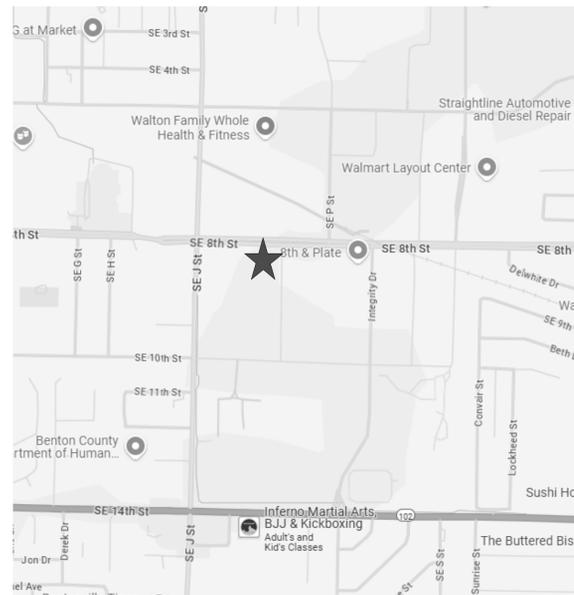


# WRIGHT'S BBQ WALMART CAMPUS INFILL

1410 SE 8TH STREET STE#14  
BENTONVILLE, AR 72712

## PROJECT LOCATION



## SCOPE OF WORK

- NEW ONE STORY TENANT INFILL RESTAURANT WITH KITCHEN AND OPEN SEATING.
- EXTERIOR SIGNAGE, (SHALL BE SUBMITTED SEPARATELY FOR PERMIT BY SIGN VENDOR)
- SEE DRAWINGS FOR FULL SCOPE OF WORK FOR ENTIRE PROJECT. THIS SUMMARY DOES NOT CHANGE OR SUPERSEDE WHAT IS SHOWN IN THE DRAWINGS.
- ALL ITEMS ARE CONTRACTOR PROVIDED AND INSTALLED, NO OWNER PROVIDED ITEMS UNLESS NOTED OTHERWISE
- CONTACT THE CONSTRUCTION PROJECT MANAGER FOR ALL RFIS, QUESTIONS REGARDING BIDDING, OR FOR A LIST OF GENERAL CONTRACTORS.

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS.

## DRAWING INDEX

SHEET NUMBER	SHEET NAME	ISSUED	CURRENT REVISION	
			#	NAME DATE
<b>GENERAL</b>				
CS0.00	COVER SHEET	04/11/2025		
LS0.00	CODE SUMMARY, LIFE SAFETY	04/11/2025		
<b>ARCHITECTURAL</b>				
A0.01	SYMBOLS AND ABBREVIATIONS	04/11/2025		
A0.03	ACCESSIBILITY DETAILS	04/11/2025		
A0.04	ACCESSIBILITY NOTES	04/11/2025		
A2.00	DIMENSION PLAN	04/11/2025		
A2.01	NOTATION PLAN	04/11/2025		
A2.02	EQUIPMENT PLAN	04/11/2025		
A2.03	ENLARGED RESTROOM PLAN + SCHEDULE	04/11/2025		
A3.00	REFLECTED CEILING PLAN	04/11/2025		
A5.00	INTERIOR ELEVATIONS	04/11/2025		
A5.01	INTERIOR ELEVATIONS + DETAILS	04/11/2025		
A6.00	DOOR AND OPENING SCHEDULE AND DETAILS	04/11/2025		
A6.01	CASEWORK DETAILS	04/11/2025		
A6.02	CASEWORK DETAILS	04/11/2025		
<b>INTERIORS</b>				
ID1.00	FINISH PLAN	04/11/2025		
ID1.01	MATERIAL FINISH LEGEND	04/11/2025		
<b>MECHANICAL</b>				
KEH1.0	KITCHEN EXHAUST HOOD DETAILS	04/11/2025		
KEH2.0	KITCHEN EXHAUST HOOD DETAILS	04/11/2025		
M1.0	MECHANICAL PLANS	04/11/2025		
M1.1	MECHANICAL PLANS	04/11/2025		
M2.0	MECHANICAL NOTES, DETAILS, AND SCHEDULES	04/11/2025		
M3.0	MECHANICAL SPECIFICATIONS	04/11/2025		
<b>ELECTRICAL</b>				
E1.0	POWER PLANS	04/11/2025		
E2.0	LIGHTING PLANS	04/11/2025		
E3.0	ELECTRICAL NOTES, DETAILS, AND SCHEDULES	04/11/2025		
E3.1	PANEL SCHEDULES	04/11/2025		
E4.0	ELECTRICAL SPECIFICATIONS	04/11/2025		
<b>PLUMBING</b>				
P1.0	DWV PIPING PLAN	04/11/2025		
P1.1	WATER PIPING PLAN	04/11/2025		
P1.2	GAS PIPING PLAN AND RISER	04/11/2025		
P1.3	PLUMBING RISERS	04/11/2025		
P2.0	PLUMBING NOTES, DETAILS, AND SCHEDULES	04/11/2025		
P3.0	PLUMBING SPECIFICATIONS	04/11/2025		



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Contractor is responsible for confirming and correlating dimensions at job site. The Architect will not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the project.

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04/11/2025  
Architect Name - RYAN M. FAUST  
Architect Number - 4711

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### REVISIONS

NO.	DATE	DESCRIPTION

Drawing Size: 24 x 36	Project #: 24136
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Drawn By: MEW	Checked By: KB
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Title:  
COVER SHEET

Sheet Number:  
**CS0.00**

ISSUE DATE: 04/11/2025

C:\Users\wohleazm\Documents\24136\_Wrights BBQ Infill\_Bentonville AR\_R22\_Updated\_Layout\_Smoker Option\_wohleazm.rvt

**ROOM NAME**

#SF	ROOM AREA (NET)
#SF	OCCUPANT LOAD FACTOR
#	NUMBER OF OCCUPANTS
F.E.	FIRE EXTINGUISHER

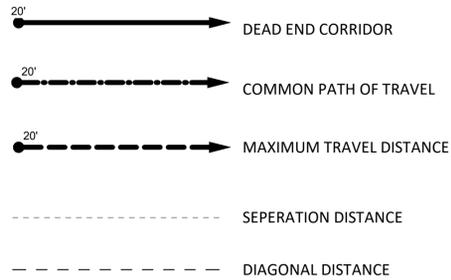
ROOM AREA (NET)  
OCCUPANT LOAD FACTOR  
NUMBER OF OCCUPANTS  
FIRE EXTINGUISHER



ACCESSIBLE EXIT

ACTUAL WIDTH: 72"  
REQ'D. WIDTH: 20"  
ACTUAL OCC.: 100

**LS0.00 LIFE SAFETY LEGEND**  
1/8" = 1'-0"



OCCUPANCY LOAD				
ROOM NO.	USE	SIZE SQFT	SOFT/ PERSON	PERSONS
100	DINING	2427 SF	15 SF	162
101	SERVICE LINE	241 SF	200 SF	2
102	DRY STORAGE	71 SF	300 SF	1
103	OFFICE/IT	57 SF	150 SF	1
105	KITCHEN	847 SF	200 SF	5
106	TO GO PREP + PICK UP	200 SF	200 SF	2
<b>GRAND TOTAL</b>				<b>173</b>

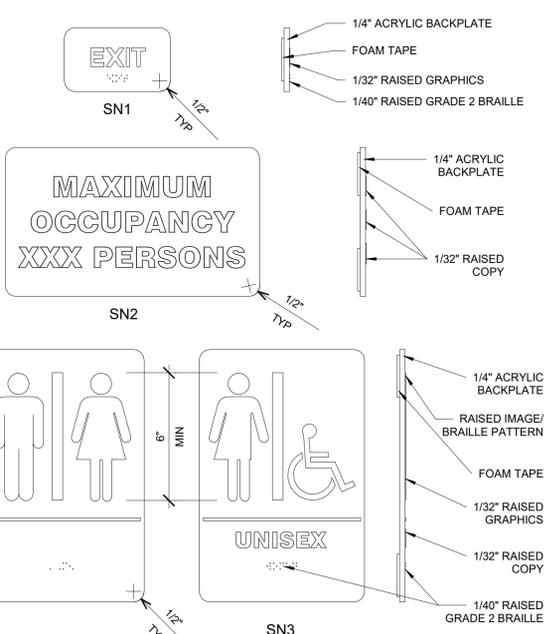
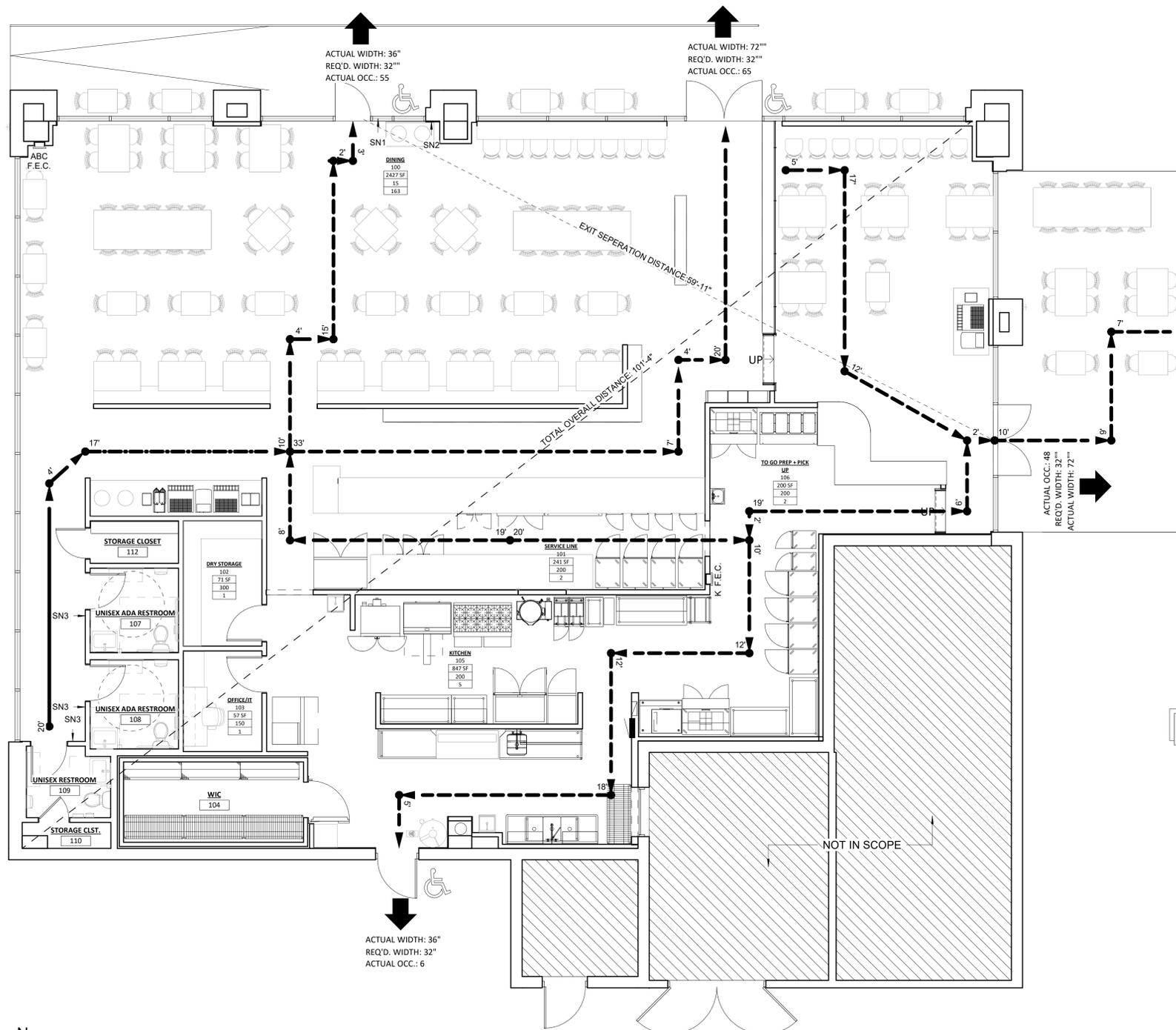
CODE REVIEW INFORMATION	
APPLICABLE CODES	
MUNICIPALITY:	BENTONVILLE, AR
BUILDING:	2021 ARKANSAS FIRE PREVENTION VOL. II
ENERGY:	2014 ARKANSAS ENERGY CODE
FIRE PREVENTION:	2021 ARKANSAS FIRE PREVENTION VOL. I
PLUMBING:	2018 ARKANSAS PLUMBING CODE
MECHANICAL:	2021 ARKANSAS MECHANICAL CODE
ELECTRICAL:	2020 ARKANSAS NATIONAL ELECTRICAL CODE
ACCESSIBILITY:	ICC/ANSI A117.1-2009

**PLUMBING FIXTURE REQUIREMENTS**

REQUIRED	PROVIDED
W.C. - 1 PER 75 MALE/ 1 PER 75 FEMALE	W.C. - 3
LAVATORY - 1/200	LAVATORY - 3
DF - 1/500	FREE DRINKING CUPS PROVIDED FOR PATRONS AND EMPLOYEES
SERVICE SINK - 1	SERVICE SINK - 1

**RESTROOM/EXIT SIGNAGE SPECIFICATIONS**

- LETTERS AND NUMERALS SHALL BE RAISED 1/32" UPPER CASE, SANS SERIF OR SIMILAR SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAMS. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.
- THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL BE WHITE AND BACKGROUNDS SHALL BE BLACK.
- WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE A MIN 48" AFF MEASURED TO THE BASELINE OF THE LOWEST RAISED CHARACTER AND A MAX 60" A.F.F. TO THE BASELINE OF THE HIGHEST RAISED CHARACTER. SIGNAGE SHALL BE MOUNTED 18" TO CENTER LINE FROM ARC OF DOOR OR MAY BE PLACED ON THE LATCH SIDE OF DOORS EQUIPPED WITH CLOSERS. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.



**2** **LS0.00** **RESTROOM AND EXIT SIGNAGE**  
**3" = 1'-0"**  
NOTE: SIGNAGE DETAILS ILLUSTRATE CODE REQUIREMENTS. IF TENANT OPTS TO PROVIDE ALTERNATE SIGNAGE DESIGN MEETS ALL CODE AND JURISDICTIONAL REQUIREMENTS.

BUILDING INFORMATION	
CONSTRUCTION TYPE:	II-B
USE GROUP (S):	ASSEMBLY (A-2)
TOTAL:	4,568 SF

AREA INFORMATION:	
IBC: BASIC ALLOWABLE AREA:	12,500 SF
W/ AUTOMATIC SPRINKLERS:	50,000 SF
ACTUAL BUILDING AREA:	4,568 SF

HEIGHT INFORMATION:	
IBC: BASIC ALLOWABLE HEIGHT:	75 FT
ACTUAL HEIGHT:	20'-0" FT

**FIRE PROTECTION**

STRUCTURAL FRAME	0
BEARING WALLS:	
EXTERIOR	0
INTERIOR	0
NON-BEARING WALLS:	
EXTERIOR	0
INTERIOR	0
EXIT ACCESS CORRIDOR:	0
STRUCTURAL COLUMNS:	0
STRUCTURAL BEAMS:	0
SHAFT ENCLOSURE:	0
FLOOR CONSTRUCTION AND SECONDARY MEMBERS:	0
ROOF CONSTRUCTION AND SECONDARY MEMBERS:	0
FIRE WALL RATING:	0
FIRE BARRIER RATING:	0
FIRE SEPARATION RATING: (between tenant space)	0
FIRE SEPARATION RATING: (corridor walls)	0
MAINTAIN EXISTING FIRE RATINGS ON EXISTING WALLS/FLOORS THAT SEPARATE OTHER TENANTS	
INTERIOR FINISH:	
CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450	
FLOOR FINISH; CLASS I OR CLASS II IN CORRIDORS AND EXITS	
FULLY SPRINKLERED, W/ SUPERVISED A/V ALARM AND PULL STATIONS	

**MEANS OF EGRESS**

OCCUPANT LOAD:	174
NUMBER OF EXITS:	
REQUIRED:	2
PROVIDED:	4
SPRINKLERS PROVIDED:	YES
NON-SEPARATED MIXED-USE:	N/A
ALLOWABLE TRAVEL DISTANCE: (w/ sprinkler system)	75 FT
EXIT ACCESS TRAVEL DISTANCE:	250 FT
COMMON PATH OF TRAVEL:	75 FT
DEAD ENDS:	20
EGRESS WIDTH OF CORRIDORS:	44 IN
EGRESS WIDTH OF EXITS:	SEE PLAN

EXIT SIGNS:  
EXIT MARKING IS PROVIDED AS FOLLOWS:  
EXIT SIGNS ARE PROVIDED IN AREA ACCESSIBLE TO THE PUBLIC IN ACCORDANCE WITH NFPA 101, AND SHALL BE OF THE L.E.D. TYPE. INCANDESCENT SIGNS ARE NOT PERMITTED.

**CODE CLARIFICATIONS**

OCCUPANT LOAD (SECTION 1004.1.1)  
FLOOR AREA / (SQ. FT. / PERSON) = OCC. LOAD  
ACCESSIBLE MEANS OF EGRESS (SECTION 1007)  
\* REFER TO LIFE SAFETY PLAN

**b·uf**  
STUDIO

702 SE 5TH ST. SUITE 50  
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TEL: 479.579.9959

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**REGISTERED ARCHITECT**  
RYAN M. FAUST  
Arkansas No. 4711  
STATE OF ARKANSAS

REVISIONS		
NO.	DATE	DESCRIPTION

Drawing Size:	Project #:
24 x 36	24136
Drawn By:	Checked By:
MEW	KB
Title:	
CODE SUMMARY, LIFE SAFETY	

Sheet Number:  
**LS0.00**

ISSUE DATE: 04/11/2025

**1** **LS0.00** **LIFE SAFETY PLAN**  
**3/16" = 1'-0"**

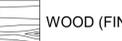
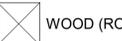
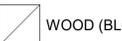
# ABBREVIATIONS

NOT ALL ABBREVIATIONS MAY BE USED IN THIS DOCUMENT

<p><b>A</b> A.C.T. ACOUTIC CEILING TILE A.D. AREA DRAIN A.F.F. ABOVE FINISH FLOOR AC DR. ACCESS DOOR AC. PL. ACCESS PANEL ACCESS. ACCESSIBLE ADJ. ADJUSTABLE AGG. AGGREGATE ALT. ALTERNATE or ALTERNATIVE ALUM. ALUMINUM ANOD. ANODIZED APPROX. APPROXIMATE(LY) ARCH. ARCHITECTURAL/ARCHITECT ASPH. ASPHALT ATTN. ATTENTION</p> <p><b>B</b> B.F.F. BELOW FINISH FLOOR B.O.C. BOTTOM OF CONCRETE/CURB B.O.F. BOTTOM OF FOOTING B.U.R. BUILT UP ROOFING BD. BOARD BL. BUILDING LINE BLDG. BUILDING BLK. BLOCK BLKG. BLOCKING BM. BEAM BOT.T. BOTTOM BR. BRICK BRG. BEARING</p> <p><b>C</b> C.B. CATCH BASIN(S) C.F. CUBIC FEET C.J. CONTROL JOINT C.M.P. CORRUGATED METAL PIPE C.M.U. CONCRETE MASONRY UNIT C.O. CLEAN OUT C.T. CERAMIC TILE C.T.B. CERAMIC TILE BASE C.Y. CURB YARD CAB(S) CABINET(S) CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED CEM. CEMENT CL OR C CENTERLINE CLS. CEILING CLO. CLOSET CLR. CLEAR COL. COLUMN CONC. CONCRETE CONF. CONFERENCE CONN. CONNECTION CONST. CONSTRUCTION CONT. CONTINUOUS (CONTINUED) CONTR. CONTRACTOR CPT. CARPET CPT.T. CARPET TILE CSK. COUNTERSINK (SUNK)</p> <p><b>D</b> D. DEEP OR DEPTH D.S. DOWNSPOUT D.T. DRAIN TILE DBL. DOUBLE DEG. DEGREE DET. DETAIL DIA. DIAMETER DIAG. DIAGONAL DIFF. DIFFUSER DIM. DIMENSION DISP. DISPENSER DN. DOWN DR. DOOR DWG(S) DRAWING(S) DWL(S) DOWEL(S) DWR. DRAWER</p> <p><b>E</b> E.F. EACH FACE E.I.F.S. EXTERIOR INSULATION FINISH SYSTEM E.J. EXPANSION JOINT E.M. ENTRY MAT E.P. ELECTRICAL PANEL E.W. EACH WAY E.W.C. ELECTRIC WATER COOLER EA. EACH EL. ELEVATION ELEC. ELECTRIC (AL) ELEV. ELEVATOR ENCL. ENCLOSURE ENGR. ENGINEER EQ. EQUIP EQUIP. EQUIPMENT EXH. EXHAUST EXIST. EXISTING EXP. EXPANSION, EXPOSED EXP. AGG. EXPOSED AGGREGATE EXP. STR. EXPOSED STRUCTURE EXT. EXTERIOR</p>	<p><b>F</b> F. &amp; I. FURNISH &amp; INSTALL F.A. FIRE ALARM F.A.WP. FLUID APPLIED WATERPROOFING F.D. FLOOR DRAIN F.E. FIRE EXTINGUISHER F.E.C. FIRE EXTINGUISHER CABINET F.H.C. FIRE HOSE CABINET F.O.C. FACE OF CONCRETE FAB. FABRIC FBGL. FIBERGLASS FIN. FINISH FIN. FLR. FINISH FLOOR FL. FLOW LINE FLASH. FLASHING FLR. FLOOR FLUOR. FLUORESCENT FND. FOUNDATION FP. FIRE PROTECTION FR. FRAME FRT. FIRE RETARDANT FT. FEET (FOOT) FTG. FOOTING FUR. FURRING FUT. FUTURE FWC. FABRIC WALL COVERING</p> <p><b>G</b> G.B. GRAB BAR G.C. GENERAL CONTRACTOR G.O. GLASS OPENING GA. GAUGE GAL. GALLON GALV. GALVANIZED GL. GLASS GND. GROUND GR. GRADE GT. GROUT GYP. BD. GYPSUM BOARD</p> <p><b>H</b> H. HIGH H.B. HOSE BIBB H.C. HOLLOW CORE H.M. HOLLOW METAL H.P. HIGH POINT H.V.A.C. HEATING, VENTILATING AND AIR CONDITIONING HD. HEAD HDCP. HANDICAP HDW. HARDWARE HDWD. HARDWOOD HORIZ. HORIZONTAL HR. HOUR HT. HEIGHT</p> <p><b>I</b> I.D. INSIDE DIAMETER IN. INCH INFO. INFORMATION INSUL. INSULATION INT. INTERIOR</p> <p><b>J</b> JAN. CLO. JANITOR CLOSET JST. JOIST JT. JOINT</p> <p><b>K</b> KIT. KITCHEN</p> <p><b>L</b> L.F. LINEAR FEET L.L.H. LONG LEG HORIZONTAL L.L.V. LONG LEG VERTICAL L.P. LOW POINT LAM. LAMINATE (ED) LAV. LAVATORY LBR. LUMBER LIN. PNL. LINER PANEL LKR. LOCKER LOC. LOCATION LT. LIGHT</p> <p><b>M</b> M.B. MOP BASIN M.B.S. METAL BUILDING SUPPLIER M.D.F. MEDIUM DENSITY FIBERBOARD M.O. MASONRY OPENING M.P. MOVABLE PARTITION M.R.C.T. MOISTURE RESISTANT CEILING TILE MACH. MACHINE MAS. MASONRY MATL. MATERIAL MAX. MAXIMUM MECH. MECHANICAL MEMB. MEMBRANE MEZZ. MEZZANINE MFG. MANUFACTURING MFR. MANUFACTURE (ER) (ED) MH. MANHOLE MIN. MINIMUM MISC. MISCELLANEOUS MTD. MOUNTED MTL. METAL MTL. LAM. METAL LAMINATE MULL. MULLION</p>	<p><b>N</b> N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE NEG. NEGATIVE NO. or # NUMBER NOM. NOMINAL</p> <p><b>O</b> O.A. OVERALL O.C. ON CENTER O.D. OUTSIDE DIAMETER O.H. OPPOSITE HAND OF. OVER OF/CI. OWNER FURNISHED CONTRACTOR INSTALLED OF/OI. OWNER FURNISHED OWNER INSTALLED OFF. OFFICE OH. OVERHEAD OPNG. OPENING OPP. OPPOSITE OZ. OUNCE</p> <p><b>P</b> P.LAM. PLASTIC LAMINATE (ED) P.S.F. POUNDS PER SQUARE FOOT P.S.I. POUNDS PER SQUARE INCH P.T.D. PAPER TOWEL DISPENSER P.T.D.R. PAPER TOWEL DISPENSER/RECEPTACLE P.T.R. PAPER TOWEL RECEPTACLE P.V.C. POLYVINYLCHLORIDE PART. PARTICLE PARTN. PARTITION PC. PIECE PERIM. PERIMETER PL. PLATE PL. PLATE OF PROPERTY LINE PLAS. PLASTER PLBG. PLUMBING PLYWD. PLYWOOD PNL. PANEL POL. POLISHED PORT. PORT PAIR. PAIR PRCST. PRECAST PRCST. DK. PRECAST CONCRETE DECK PREFAB. PREFABRICATED PREFIN. PREFINISHED PROJN. PROJECTION PROP. PROPERTY PT. PAINT (ED)</p> <p><b>Q</b> Q.T. QUARRY TILE Q.T.B. QUARRY TILE BASE QTR. QUARTER</p> <p><b>R</b> RISER R.A. RETURN AIR R.B. RUBBER BASE R.C.P. REINFORCED CONCRETE PIPE R.D. ROOF DRAIN R.O. ROUGH OPENING R.R. RESTROOM R.T.U. ROOF TOP UNIT RAD. RADIUS RB.S.T. RUBBER STAIR TREAD RB.T. RUBBER TILE RE. REFER TO REF. REFERENCE REFR. REFRIGERATOR REINF. REINFORCE (ED) (ING) REQ'D. REQUIRED REV. REVISION or REVISED RM. ROOM RND. ROUND</p> <p><b>S</b> S. CONC. SEALED CONCRETE SSM. SOLID SURFACE MATERIAL S.A. SUPPLY AIR S.A.B. SOUND ATTENUATION BLANKETS S.C. SOLID CORE S.D. SMOKE DETECTOR S.D.T. STATIC DISSIPATIVE TILE S.F./SQ. FT. SQUARE FEET S.N.D. SANITARY NAPKIN DISPENSER S.N.R. SANITARY NAPKIN RECEPTACLE S.P.M.R. SINGLE-PLY MEMBRANE ROOF(ING) S.R.T. SLIP RETARDANT TILE S.S. SERVICE SINK S.T.C. SOUND TRANSMISSION COEFFICIENT S.V. SHEET VINYL S/V. STAIN &amp; VARNISH SAN. SANITARY SCHED. SCHEDULE SECT. SECTION SH. SHELF SHR. SHOWER SHT. SHEET SIM. SIMILAR TO SL. STRUCTURE LINE SP.D. SOAP DISPENSER SPAN. SPANDREL SPEC. SPECIFICATION(S) SQ. SQUARE ST. STL. STAINLESS STEEL STD. STANDARD STL. STEEL STOR. STORAGE STRUCT. STRUCTURE or STRUCTURAL SUSP. SUSPENDED SYM. SYMMETRICAL</p>	<p><b>T</b> T. TREAD T. &amp; B. TOP &amp; BOTTOM T. &amp; G. TONGUE &amp; GROOVE T.C.S.S. TERNE COATED STAINLESS STEEL T.O. TOP OF T.O.C. TOP OF CONCRETE/CURB T.O.M. TOP OF MASONRY T.O.P. TOP OF PANEL/PAVING T.O.S. TOP OF STEEL T.O.W. TOP OF WALL T.P. TOILET PARTITION T.S. TRANSITION STRIPS T.T.D. TOILET TISSUE DISPENSER TELE. TELEPHONE TEMP. TEMPERED TERR. TERRAZZO THK. THICK THRU. THROUGH TRANS. TRANSFORMER TV. TELEVISION TYP. TYPICAL</p> <p><b>U</b> U.L. UNDERWRITERS LABORATORY U.REFR. UNDERCOUNTER REFRIGERATOR U.S.D. UNDERSIDE OF DECK UN.O. UNLESS NOTED OTHERWISE UNFIN. UNFINISHED UR. URINAL UTIL. UTILITIES</p> <p><b>V</b> V. VINYL V.B. VINYL BASE V.C.T. VINYL COMPOSITION TILE V.C.T.S.R. VINYL COMPOSITION TILE SLIP RETARDANT V.S.R. VINYL STAIR RISERS V.S.T. VINYL STAIR TREADS V.T. VINYL TILE V.T.S. VINYL TRANSITION STRIPS V.W.C. VINYL WALL COVERING VENT. VENTILATOR VERT. VERTICAL VEST. VESTIBULE</p> <p><b>W</b> W. WIDE or WIDTH W.C. WATER CLOSET W.GL. WIRE GLASS W.H. WATER HEATER W.P. WORKING POINT W.W.F. WELDED WIRE FABRIC w/o. WITH(OUT) WD. WOOD WIN. WINDOW WSCOT. WAINSCOT WT. WEIGHT</p> <p><b>Y</b> Y.D. YARD DRAIN Y.H. YARD HYDRANT YD. YARD</p>
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# MATERIAL HATCH LEGEND

NOT ALL MATERIALS MAY BE USED IN THIS DOCUMENT

 ALUMINUM	 CONCRETE (PRECAST)	 SAND	 PLYWOOD
 BATT INSULATION	 CONCRETE MASONRY UNIT	 STEEL	 RIGID INSULATION
 BRICK	 EARTH	 WOOD (FINISH)	
 CAST STONE	 GRAVEL	 WOOD (ROUGH LUMBER)	
 CONCRETE (CAST IN PLACE)	 GROUT	 WOOD (BLOCKING)	

# REFERENCE SYMBOLS

NOT ALL SYMBOLS MAY BE USED IN THIS DOCUMENT

<p><b>Room name</b> 101 150 SF</p> <p><b>ELEVATION REFERENCE (OVERALL EXTERIOR AND INTERIOR)</b> 1 Ref 1 Ref</p> <p><b>ELEVATION REFERENCE (PARTIAL EXTERIOR ELEVATIONS)</b> 1 Ref 1 Ref</p> <p><b>BUILDING SECTION REFERENCE</b> 1 Ref 1 Ref</p> <p><b>WALL SECTION REFERENCE</b> 1 Ref 1 Ref</p> <p><b>DETAIL / CALLOUT REFERENCE</b> 1 Ref 1 Ref</p> <p><b>AREA DETAIL REFERENCES</b> 1 Ref 1 Ref</p> <p><b>EXISTING COLUMN TAG AND CENTER LINE</b> AA</p> <p><b>NEW COLUMN TAG AND CENTER LINE</b> AA</p> <p><b>DRAWING TITLE TAG</b> A1 A1.00</p> <p><b>PLAN NAME</b> 1/8" = 1'-0"</p> <p><b>DRAWING SCALE</b> 1/8" = 1'-0"</p> <p><b>DETAIL NUMBER AND SHEET NUMBER OF DRAWING</b> A1 A1.00</p>	<p><b>ROOM NUMBER &amp; NAME</b></p> <p><b>MATCH LINE REFERENCE</b> A3-02A Match line A3-02A Match line</p> <p><b>PARTITION TYPE TAG</b> P1 TD-2</p> <p><b>PARTITION TYPE</b> D1</p> <p><b>PARTITION HEAD CONDITION</b> 01</p> <p><b>DEMO PLAN KEYED NOTE ALSO DENOTED BY "D1-D199" SERIES NUMBERS</b></p> <p><b>FLOOR PLAN, RCP, ELEVATION, &amp; SECTION KEYED NOTES ALSO DENOTED BY "01-499" SERIES NUMBERS</b></p> <p><b>DRAWING REVISION, BULLETIN</b> 1</p> <p><b>FLOOR MATERIAL REFERENCE</b> VCT-1 CPT-1 TS-1</p> <p><b>FURNITURE, FIXTURES, EQUIPMENT TAG</b> SE###</p> <p><b>WINDOW AND CURTAIN WALL TAG</b> WX</p> <p><b>TOILET ACCESSORY KEY</b> ##</p> <p><b>DOOR TAG</b> A101.1</p> <p><b>CASEWORK TAG</b> B.1.48.PL   PL1</p> <p><b>SIGNAGE TAG</b> SN-##</p> <p><b>SIGNAGE TAG - CODE REQ'D</b> SN-##</p> <p><b>CEILING HEIGHT TAG (SEE R.C.P. LEGEND)</b> 12'-0" PT1</p> <p><b>DATUM TARGET</b> N</p> <p><b>NORTH ARROW</b> N</p>
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**REVISIONS**

NO.	DATE	DESCRIPTION

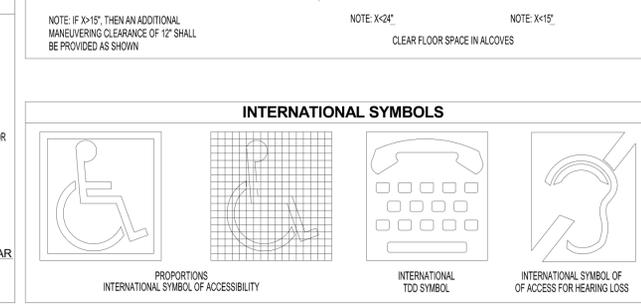
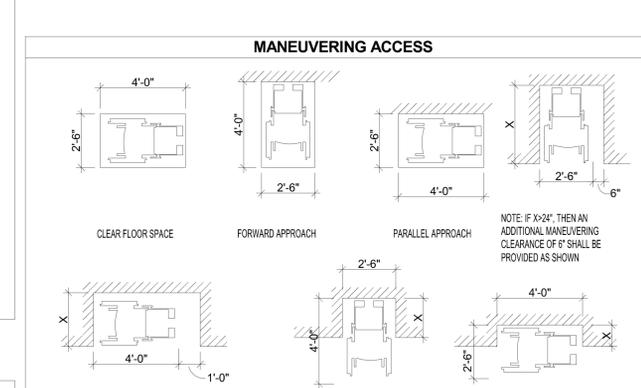
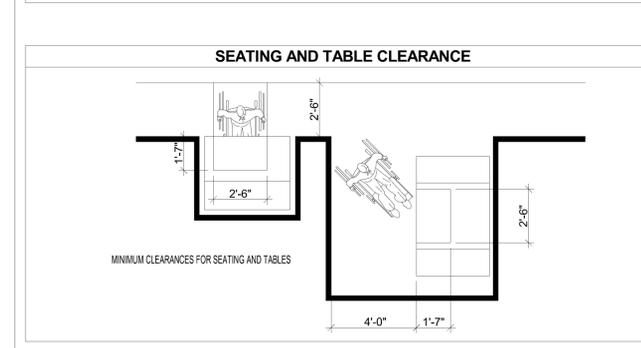
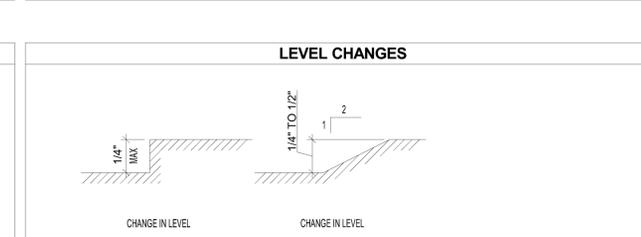
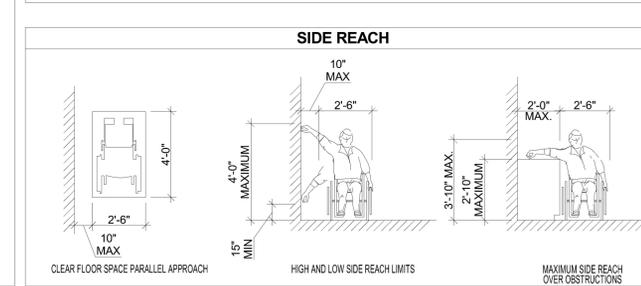
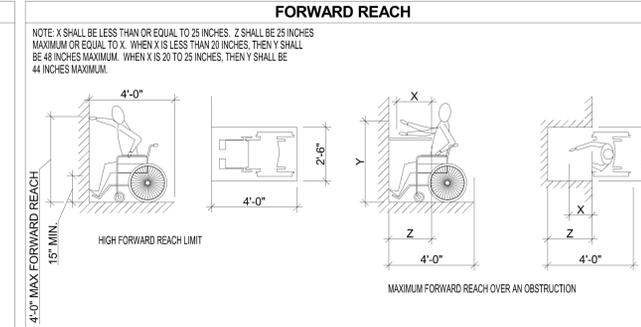
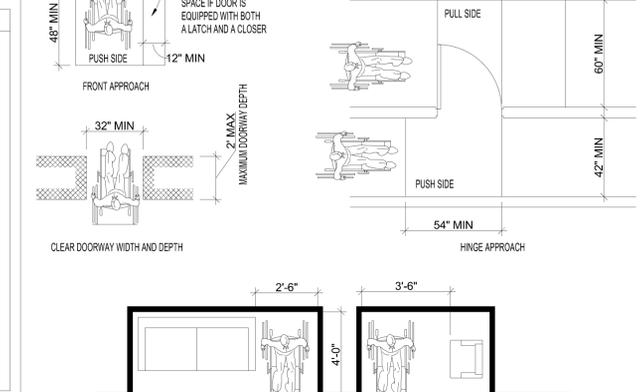
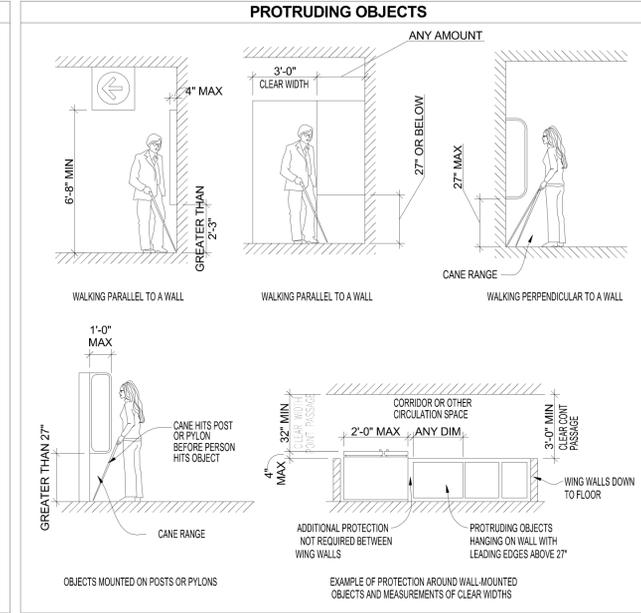
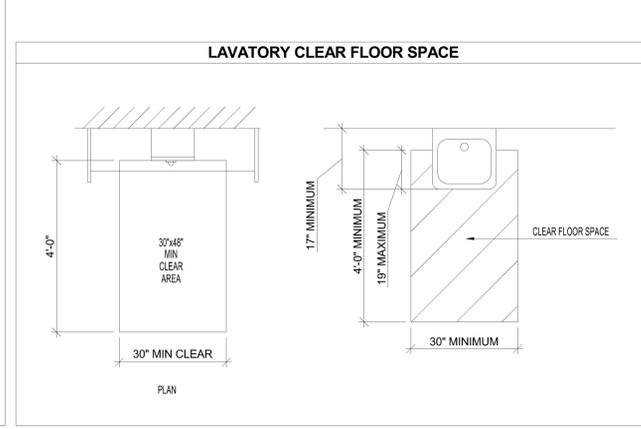
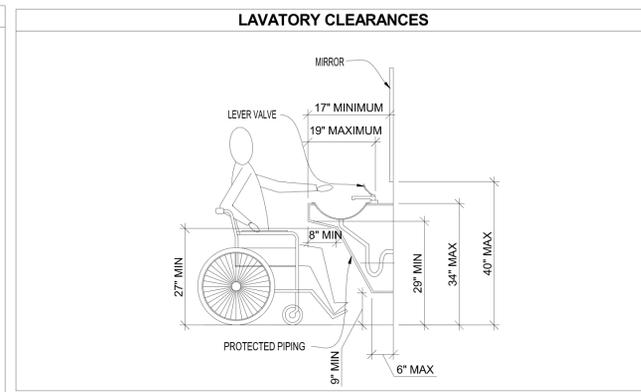
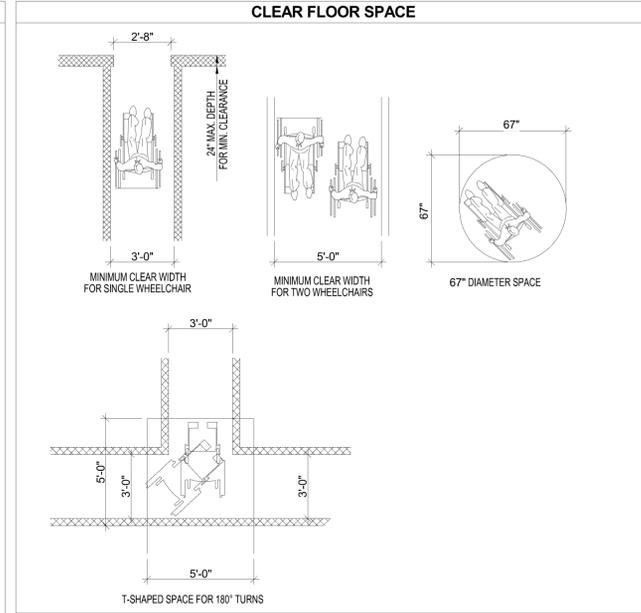
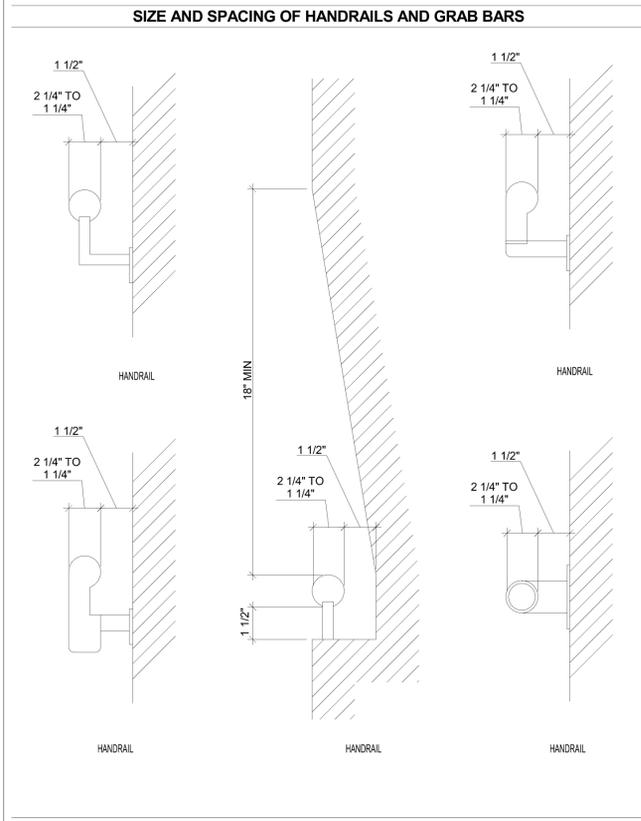
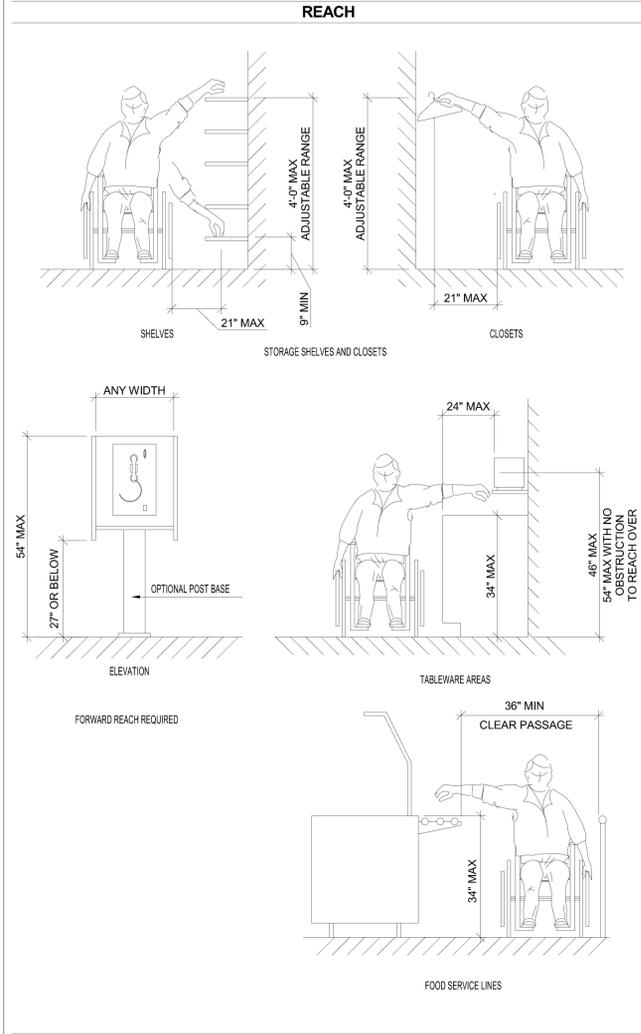
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SYMBOLS AND ABBREVIATIONS

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**GENERAL ASSOCIATED NOTES:**

**CORRIDORS & AISLES**

THE TERM CORRIDOR SHALL INCLUDE EXTERIOR EXIT BALCONIES AND ANY COVERED OR ENCLOSED EXIT PASSAGEWAY, INCLUDING WALKWAYS.

- 1. THE MAXIMUM CLEAR HEIGHT ABOVE THE FLOOR SHALL NOT BE LESS THAN 8'0" IN HEIGHT ABOVE THE FLOOR SHALL NOT BE CONSTRUCTED TO FORM CORRIDORS.
- 1. EVERY CORRIDOR SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL NOT BE LESS THAN 44" IN WIDTH.
- 2. CORRIDORS SERVING AN OCCUPANT LOAD OF LESS THAN 10 SHALL NOT BE LESS THAN 36" IN WIDTH.
- 3. CIRCULATION AISLES AND PEDESTRIAN WAYS SHALL BE SIZED ACCORDING TO FUNCTIONAL REQUIREMENTS AND IN NO CASE SHALL BE LESS THAN 36" IN CLEAR WIDTH.
- 4. EVERY AISLE SHALL BE NOT LESS THAN 36" WIDE IF SERVING ONLY ONE SIDE AND NOT LESS THAN 42" WIDE IF SERVING BOTH SIDES.

**FLOORS & LEVELS**

NOTE: LEVEL AREA IS DEFINED AS "A SPECIFIED SURFACE THAT DOES NOT HAVE A SLOPE IN ANY DIRECTION EXCEEDING 1/4 INCH IN ONE FOOT FROM THE HORIZONTAL (2.08% GRADIENT)."

- 1. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS, OR SPECIAL ACCESS LIFTS.
- 2. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, AND SLIP-RESISTANT.
- 3. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT.
- 4. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL.
- 5. CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
- 6. IF CARPET OR CARPET TILE IS USED ON A GROUND OR FLOOR SURFACE, IT SHALL BE SECURELY ATTACHED; HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/ANCUIT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2". EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH CODE.

**SANITARY FACILITIES (GENERAL)**

1. SANITARY FACILITIES THAT SERVE BUILDINGS, FACILITIES OR PORTIONS OF BUILDINGS OR FACILITIES THAT ARE REQUIRED TO BE ACCESSIBLE TO PERSONS WITH DISABILITIES ARE REQUIRED TO BE ACCESSIBLE.

**SINGLE ACCOMMODATION SANITARY FACILITIES**

NOTE: SINGLE ACCOMMODATION SANITARY FACILITY IS DEFINED AS "A ROOM THAT HAS NOT MORE THAN ONE OF EACH TYPE OF SANITARY FIXTURE, IS INTENDED FOR USE BY ONE PERSON AT A TIME, HAS NO PARTITION AROUND THE TOILET, AND HAS A DOOR THAT CAN BE LOCKED ON THE INSIDE BY THE ROOM OCCUPANT."

- 1. THERE SHALL BE SUFFICIENT SPACE IN THE TOILET ROOM FOR A WHEELCHAIR MEASURING 30" WIDE BY 48" LONG TO ENTER THE ROOM AND PERMIT THE DOOR TO CLOSE.
- 2. THERE SHALL BE IN THE ROOM A CLEAR FLOOR SPACE OF AT LEAST 60" IN DIAMETER, OR A T-SHAPED SPACE OR (B), NO DOOR SHALL ENCRATCH INTO THIS SPACE FOR MORE THAN 12" EXCEPT FOR THE PANEL DOOR TO ANY WATER CLOSET COMPARTMENT IF THERE IS ONE.
- 3. THE WATER CLOSET SHALL BE LOCATED IN A SPACE WHICH PROVIDES A MINIMUM 28" WIDE CLEAR SPACE FROM A FIXTURE OR A MINIMUM 32" WIDE CLEAR SPACE FROM A WALL AT ONE SIDE. THE OTHER SIDE SHALL PROVIDE 18" FROM THE CENTERLINE OF THE WATER CLOSET TO THE WALL. A MINIMUM 48" CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.
- 4. DOORS, FIXTURES AND CONTROLS SHALL BE ON AN ACCESSIBLE ROUTE WITH A MINIMUM CLEAR WIDTH OF 36" EXCEPT AT DOORS. IF A PERSON IN A WHEELCHAIR MUST MAKE A TURN AROUND AN OBSTRUCTION, THE MINIMUM CLEAR WIDTH OF THE ACCESSIBLE ROUTE SHALL BE PER CODE.

**PASSENGER DROP-OFF & LOADING ZONES**

- 1. WHEN PROVIDED, PASSENGER DROP-OFF AND LOADING ZONES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE OF TRAVEL.
- 2. WHERE PROVIDED, ONE PASSENGER DROP-OFF AND LOADING ZONE SHALL BE PROVIDED FOR EACH SIDE OF A ROAD, AND BE AT LEAST 20' LONG, ADJACENT AND PARALLEL TO THE VEHICLE PULL-UP SPACE. SUCH ZONES SHALL BE LOCATED ON A SURFACE WITH A SLOPE NOT EXCEEDING 1 VERTICAL IN 50 HORIZONTAL. IF THERE ARE CURBS BETWEEN THE ACCESS AISLE AND THE VEHICLE PULL-UP SPACE, THEN A CURB RAMP SHALL BE PROVIDED.
- 3. PROVIDE MINIMUM VERTICAL CLEARANCE OF 9'-6" AT ACCESSIBLE PASSENGER LOADING ZONES AND ALONG AT LEAST ONE VEHICLE ACCESS ROUTE TO SUCH AREAS FROM SITE ENTRANCES AND EXITS.
- 4. VALET PARKING FACILITIES SHALL PROVIDE A PASSENGER LOADING ZONE AND SHALL BE LOCATED ON AN ACCESSIBLE ROUTE TO THE ENTRANCE OF THE FACILITY.

**PEDESTRIAN GRADE SEPARATIONS**

- 1. PEDESTRIAN RAMPS ON PEDESTRIAN GRADE SEPARATIONS SHALL COMPLY WITH THE REQUIREMENTS FOR RAMPS.
- 2. WHERE PEDESTRIAN GRADE SEPARATIONS CROSS STREETS OR OTHER VEHICULAR TRAFFIC WAYS, AND WHERE A STREET LEVEL CROSSING CAN REASONABLY AND SAFELY BE USED BY PERSONS WITH DISABILITIES, THERE SHALL BE PROVIDED CONFORMING CURB RAMPS AND A USABLE PATHWAY.
- 3. CROSS SLOPES OF WALKING SURFACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1/4" PER FOOT. THE SLOPE OF ANY APPRECIABLY WARPED WALKING SURFACE SHALL NOT EXCEED 1 VERTICAL IN 12 HORIZONTAL IN ANY DIRECTION.

**ELECTRICAL**

- 1. THE CENTER OF JUNCTION BOXES FOR RECEPTACLE OUTLETS SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION MEETING THE CLEARANCES AND REACH RANGE REQUIREMENTS OF BUILDING CODE.
- 2. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING, AND VENTILATING EQUIPMENT SHALL MEET THE REQUIREMENTS OF BUILDING CODE.
- 3. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK.
- 4. THE INSTALLATION OF FIRE ALARM EQUIPMENT AND SYSTEMS IN ANY OCCUPANCY WITHIN THE SCOPE OF THESE REGULATIONS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE ELECTRICAL CODE.

**MULTIPLE ACCOMMODATION SANITARY FACILITIES**

NOTE: MULTIPLE ACCOMMODATION SANITARY FACILITY IS DEFINED AS "A ROOM THAT HAS MORE THAN ONE SANITARY FIXTURE, IS INTENDED FOR USE BY MORE THAN ONE PERSON AT A TIME, AND WHICH USUALLY IS PROVIDED WITH PRIVACY COMPARTMENTS OR SCREENS SHIELDING SOME FIXTURES FROM VIEW."

- 1. A CLEAR SPACE MEASURED FROM THE FLOOR TO A HEIGHT OF 27" ABOVE THE CENTERLINE OF THE SANITARY FACILITY DOOR, OR SUFFICIENT SIZE TO INSCRIBE A CIRCLE WITH A DIAMETER NOT LESS THAN 60", OR A CLEAR SPACE 56" BY 63" IN SIZE, SHALL BE PROVIDED FOR WHEELCHAIR MANEUVERING. DOORS OTHER THAN DOOR TO THE ACCESSIBLE TOILET COMPARTMENT IN ANY POSITION MAY ENCRACH INTO THIS SPACE BY NOT MORE THAN 12".
- 2. DOORS SHALL NOT SWING INTO THE FLOOR SPACE REQUIRED FOR ANY FIXTURE.
- 3. A WATER CLOSET FIXTURE LOCATED IN A COMPARTMENT SHALL PROVIDE A MINIMUM 28" WIDE CLEAR SPACE FROM A FIXTURE OR A MINIMUM 32" WIDE CLEAR SPACE FROM A WALL AT ONE SIDE OF THE WATER CLOSET. THE OTHER SIDE OF THE WATER CLOSET SHALL PROVIDE 18" FROM THE CENTERLINE OF THE WATER CLOSET TO THE WALL. GRAB BARS SHALL NOT PROJECT MORE THAN 3" INTO THESE CLEAR SPACES.
- 4. A MINIMUM 48" LONG CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET IF THE COMPARTMENT HAS AN END OPENING DOOR (FACING THE WATER CLOSET) AND A MINIMUM 60" LONG CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET IF THE COMPARTMENT HAS A DOOR LOCATED AT THE SIDE. GRAB BARS SHALL NOT PROJECT MORE THAN 3" INTO THESE CLEAR SPACES.

**PEDESTRIAN GRADE SEPARATIONS**

- 1. PEDESTRIAN RAMPS ON PEDESTRIAN GRADE SEPARATIONS SHALL COMPLY WITH THE REQUIREMENTS FOR RAMPS.
- 2. WHERE PEDESTRIAN GRADE SEPARATIONS CROSS STREETS OR OTHER VEHICULAR TRAFFIC WAYS, AND WHERE A STREET LEVEL CROSSING CAN REASONABLY AND SAFELY BE USED BY PERSONS WITH DISABILITIES, THERE SHALL BE PROVIDED CONFORMING CURB RAMPS AND A USABLE PATHWAY.
- 3. CROSS SLOPES OF WALKING SURFACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1/4" PER FOOT. THE SLOPE OF ANY APPRECIABLY WARPED WALKING SURFACE SHALL NOT EXCEED 1 VERTICAL IN 12 HORIZONTAL IN ANY DIRECTION.
- 4. ALL LAVATORIES THAT ARE DESIGNATED TO BE ACCESSIBLE SHALL BE LOCATED WITHIN THE ROOM OR BE LOCATED WITHIN A RECESS OF AT LEAST 34" ABOVE THE FINISHED FLOOR AND WITH A VERTICAL CLEARANCE MEASURED FROM THE BOTTOM OF THE APRON OR OUTSIDE BOTTOM EDGE OF THE LAVATORY OF 29", REDUCING TO 27" AT A POINT LOCATED 8" BACK FROM THE FRONT EDGE. KNEE CLEARANCE BELOW THE LAVATORY SHALL EXTEND A MINIMUM OF 30" IN WIDTH BY 17" IN DEPTH. THE CLEARANCE SHALL BE THE SAME WIDTH AND SHALL BE A MINIMUM OF 9" HIGH FROM THE FLOOR AND A MINIMUM OF 17" DEEP FROM THE FRONT OF THE LAVATORY.

- 5. HOT WATER AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- 6. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30" BY 48" IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH.
- 7. URINALS SHALL BE FLOOR MOUNTED OR WALL HUNG. WHERE ONE OR MORE WALL HUNG URINALS ARE PROVIDED, AT LEAST ONE WITH A RIM PROJECTING A MINIMUM OF 14" FROM THE WALL AND AT A MAXIMUM OF 17" ABOVE THE FLOOR SHALL BE PROVIDED.
- 8. CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS.
- 9. WATER CLOSET URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISMS CONTROLS, SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.

- 10. CONTROLS TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE NO GREATER THAN 5 LBF. ELECTRONIC OR AUTOMATIC FLUSHING CONTROLS ARE ACCEPTABLE AND PREFERRED.
- 11. SELF-CLOSING FAUCET CONTROL VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
- 12. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.

- 13. WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISTRIBUTION DEVICES ARE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40" FROM THE FINISHED FLOOR.
- 14. TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL WITHIN 12" OF THE FRONT EDGE OF THE TOILET SEAT AND NO LOWER THAN 19" FROM THE FLOOR. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.

- 15. TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST 5". WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24" OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48" AND, EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.

**DINING, BANQUET & BAR FACILITIES**

- 1. EACH AREA WHERE A DIFFERENT TYPE OF FUNCTIONAL ACTIVITY OCCURS SHALL BE ACCESSIBLE TO PERSONS WITH DISABILITIES. PROVIDE WHEELCHAIR ACCESS TO BANQUET ROOMS.
- 2. PROVIDE SEATS/SPACES FOR PEOPLE USING WHEELCHAIRS (AT LEAST ONE FOR EACH 20 SEATS, WITH AT LEAST ONE PER FUNCTIONAL AREA) INTEGRATED WITH GENERAL SEATING TO AVOID HAVING ONE AREA SPECIFICALLY HIGHLIGHTED AS THE AREA FOR PERSONS WITH DISABILITIES.
- 3. ACCESS TO DISABLED SEATING SHALL BE PROVIDED WITH MAIN AISLES NOT LESS THAN 36" IN CLEAR WIDTH.
- 4. FOOD SERVICE AISLES SHALL BE A MINIMUM OF 36" IN CLEAR WIDTH WITH A PREFERRED WIDTH OF 42" WHERE PASSAGE OF STOPPED WHEELCHAIRS BY PEDESTRIANS IS DESIRED. TRAY SLIDES SHALL BE MOUNTED NO HIGHER THAN 34" ABOVE THE FLOOR. IF SELF-SERVICE SHELVES ARE PROVIDED, A REASONABLE PORTION MUST BE WITHIN 34" OF THE FLOOR.
- 5. TABLEWARE, DISHWARE, AND FOOD AND BEVERAGE DISPLAY AND DISPENSING DEVICES, WHEN LOCATED ON TABLES OR COUNTER TOPS, SHALL BE PLACED 28" TO 34" ABOVE THE ADJACENT FLOOR. THESE ITEMS, WHEN LOCATED ON SHELVES, SHALL BE PLACED NO HIGHER THAN 54" ABOVE THE ADJACENT FLOOR, WHERE NOT REQUIRED TO REACH OVER AN OBSTRUCTION, AND NO HIGHER THAN 48" ABOVE THE ADJACENT FLOOR WHEN REQUIRED TO REACH OVER AN OBSTRUCTION. AN OBSTRUCTION WHICH A DISABLED PERSON IS REQUIRED TO REACH OVER SHALL BE NO HIGHER THAN 34" ABOVE THE ADJACENT FLOOR WITH A HORIZONTAL REACH OVER THE OBSTRUCTION OF NO MORE THAN 24".
- 6. ACCESS TO FOOD PREPARATION AREAS SHALL COMPLY WITH THE PROVISIONS FOR ENTRANCE DOORS, DOORWAYS, AND AISLES

**GRAB BARS**

- 1. GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ON ONE SIDE AND THE BACK OF THE ACCESSIBLE TOILET STALL OR COMPARTMENT.
- 2. GRAB BARS AT THE TOILET SHALL BE AT LEAST 42" LONG WITH THE FRONT END POSITIONED 24" IN FRONT OF THE WATER CLOSET STOOL AND WITH THE BACK END POSITIONED NO MORE THAN 12" FROM THE REAR WALL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36" LONG.
- 3. GRAB BARS SHALL BE SECURELY ATTACHED 33" ABOVE AND PARALLEL TO THE FLOOR, EXCEPT THAT WHERE A TANK-TYPE TOILET IS USED WHICH OBSTRUCTS PLACEMENT AT 33", THE GRAB BAR MAY BE AS HIGH AS 36".
- 4. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4" TO 1-1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2".
- 5. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS:
  - 5.1. BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
  - 5.2. SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND OR DIAGONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
  - 5.3. SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICES FROM THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER HAS THE SMALLER ALLOWABLE LOAD.
  - 5.4. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250-LB POINT LOAD, PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF A 250-LB POINT LOAD, SHALL BE LESS THAN THE ALLOWABLE TENSILE FORCE BETWEEN THE FASTENER AND SUPPORTING STRUCTURE.
  - 5.5. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- 6. A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

- 7. HANDRAILS ARE REQUIRED ON RAMPS THAT PROVIDE ACCESS IF THE RAMP SLOPE EXCEEDS 1" RISE IN 20" OF HORIZONTAL RUN, EXCEPT THAT AT EXTERIOR DOOR LANDINGS, HANDRAILS ARE NOT REQUIRED ON RAMPS THAT DO NOT EXCEED 1" RISE IN 12" IN LENGTH.
- 17. HANDRAILS SHALL BE PLACED ON EACH SIDE OF EACH RAMP, SHALL BE CONTINUOUS THE FULL LENGTH OF THE RAMP, SHALL BE 34" TO 36" ABOVE THE RAMP SURFACE, SHALL EXTEND A MINIMUM OF 1' BEYOND THE TOP AND BOTTOM OF THE RAMP, AND THE ENDS SHALL BE RETURNED TO THE GRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1-1/4" NOR MORE THAN 1-1/2", OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE, AND ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

- 18. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF 1-1/2" BETWEEN THE WALL AND THE HANDRAIL.
- 20. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3" DEEP AND EXTENDS AT LEAST 18" ABOVE THE TOP OF THE RAIL.
- 21. ANY WALL OR OTHER SURFACE ADJACENT TO HANDRAILS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
- 22. WHERE THE RAMP LANDING IS NOT BOUNDED BY A WALL OR FENCE, THERE SHALL BE PROVIDED ON EACH SIDE OF THE RAMP LANDING WHERE THERE IS A VERTICAL DROP EXCEEDING 4", ONE OF THE FOLLOWING:
  - 22.1. A GUIDE CURB, A MINIMUM OF 2" IN HEIGHT; OR
  - 22.2. A WHEEL GUIDE RAIL SHALL BE PROVIDED, CENTERED 3" ± 1" ABOVE THE SURFACE OF THE RAMP LANDING.
- 23. WHERE A RAMP SURFACE IS BOUNDED BY A WALL OR FENCE AND THE RAMP EXCEEDS 10' IN LENGTH, THE RAMP SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS:
  - 23.1. A GUIDE CURB, A MINIMUM OF 2" IN HEIGHT; OR
  - 23.2. A WHEEL GUIDE RAIL SHALL BE PROVIDED, CENTERED 3" ± 1" ABOVE THE SURFACE OF THE RAMP.
- 24. OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED AND CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

- 25. THE MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30" BY 48". (THE MINIMUM FLOOR OR GROUND SPACE SHALL BE INCREASED TO 42" BY 48" WHEN SUCH SPACE IS PERPENDICULAR TO AN ADJACENT SEATING SPACE). THE MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT. CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME OBJECTS.
- 2. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE FOR A WHEELCHAIR SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER WHEELCHAIR CLEAR FLOOR SPACE. IF A CLEAR FLOOR OR GROUND SPACE FOR A WHEELCHAIR IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES, ADDITIONAL MANEUVERING CLEARANCES SHALL BE PROVIDED.
- 3. THE SPACE REQUIRED FOR A WHEELCHAIR TO MAKE A 180 DEGREE TURN IS A CLEAR SPACE OF 60" DIAMETER OR A T-SHAPED SPACE.
- 4. THE MINIMUM CLEAR WIDTH REQUIRED FOR A WHEELCHAIR TO TURN AROUND AN OBSTRUCTION SHALL BE 36" WHERE THE OBSTRUCTION IS 48" OR MORE IN LENGTH AND 42" WHERE THE OBSTRUCTION IS LESS THAN 48" IN LENGTH.
- 5. THE MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR PASSAGE SHALL BE 32" AT A POINT (24" MAXIMUM LENGTH) AND 36" CONTINUOUSLY.
- 6. OPENINGS MORE THAN 24" IN DEPTH SHALL COMPLY WITH CODE. THE MINIMUM WIDTH FOR TWO WHEELCHAIRS TO PASS IS 60".
- 7. IF THE CLEAR FLOOR SPACE ONLY ALLOWS FORWARD APPROACH TO AN OBJECT, THE MAXIMUM HIGH FORWARD REACH ALLOWED SHALL BE 48". THE MINIMUM LOW FORWARD REACH IS 15". IF THE HIGH FORWARD REACH IS OVER AN OBSTRUCTION, REACH AND CLEARANCES SHALL BE PER BUILDING CODE.
- 8. IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH SIDE REACH ALLOWED SHALL BE 54" AND THE LOW SIDE REACH SHALL BE NO LESS THAN 9" ABOVE THE FLOOR AS SHOWN IN FIGURES 11B-5D(A) & (B). IF THE SIDE REACH IS OVER AN OBSTRUCTION, THE REACH AND CLEARANCES SHALL BE AS SHOWN IN FIGURE 11B-5D(C).

- 9. SELF-CLOSING FAUCET CONTROL VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
- 12. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.
- 13. WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISTRIBUTION DEVICES ARE PROVIDED, AT LEAST ONE OF EACH TYPE OF STATION SHALL BE LOCATED AT A SECTION OF COUNTER THAT IS AT LEAST 36" LONG AND NO MORE THAN 28" TO 34" HIGH.

- 14. TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL WITHIN 12" OF THE FRONT EDGE OF THE TOILET SEAT AND NO LOWER THAN 19" FROM THE FLOOR. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.
- 15. TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST 5". WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24" OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48" AND, EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.

- 16. WHERE PEDESTRIAN GRADE SEPARATIONS CROSS STREETS OR OTHER VEHICULAR TRAFFIC WAYS, AND WHERE A STREET LEVEL CROSSING CAN REASONABLY AND SAFELY BE USED BY PERSONS WITH DISABILITIES, THERE SHALL BE PROVIDED CONFORMING CURB RAMPS AND A USABLE PATHWAY.
- 3. CROSS SLOPES OF WALKING SURFACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1/4" PER FOOT. THE SLOPE OF ANY APPRECIABLY WARPED WALKING SURFACE SHALL NOT EXCEED 1 VERTICAL IN 12 HORIZONTAL IN ANY DIRECTION.

- 5. HOT WATER AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- 6. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30" BY 48" IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH.
- 7. URINALS SHALL BE FLOOR MOUNTED OR WALL HUNG. WHERE ONE OR MORE WALL HUNG URINALS ARE PROVIDED, AT LEAST ONE WITH A RIM PROJECTING A MINIMUM OF 14" FROM THE WALL AND AT A MAXIMUM OF 17" ABOVE THE FLOOR SHALL BE PROVIDED.
- 8. CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS.
- 9. WATER CLOSET URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISMS CONTROLS, SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.

- 10. CONTROLS TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE NO GREATER THAN 5 LBF. ELECTRONIC OR AUTOMATIC FLUSHING CONTROLS ARE ACCEPTABLE AND PREFERRED.
- 11. SELF-CLOSING FAUCET CONTROL VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
- 12. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.

- 13. WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISTRIBUTION DEVICES ARE PROVIDED, AT LEAST ONE OF EACH TYPE OF STATION SHALL BE LOCATED AT A SECTION OF COUNTER THAT IS AT LEAST 36" LONG AND NO MORE THAN 28" TO 34" HIGH.

- 14. TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL WITHIN 12" OF THE FRONT EDGE OF THE TOILET SEAT AND NO LOWER THAN 19" FROM THE FLOOR. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.
- 15. TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST 5". WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24" OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48" AND, EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.

- 16. WHERE PEDESTRIAN GRADE SEPARATIONS CROSS STREETS OR OTHER VEHICULAR TRAFFIC WAYS, AND WHERE A STREET LEVEL CROSSING CAN REASONABLY AND SAFELY BE USED BY PERSONS WITH DISABILITIES, THERE SHALL BE PROVIDED CONFORMING CURB RAMPS AND A USABLE PATHWAY.
- 3. CROSS SLOPES OF WALKING SURFACES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1/4" PER FOOT. THE SLOPE OF ANY APPRECIABLY WARPED WALKING SURFACE SHALL NOT EXCEED 1 VERTICAL IN 12 HORIZONTAL IN ANY DIRECTION.

- 5. HOT WATER AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
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- 10. CONTROLS TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE NO GREATER THAN 5 LBF. ELECTRONIC OR AUTOMATIC FLUSHING CONTROLS ARE ACCEPTABLE AND PREFERRED.
- 11. SELF-CLOSING FAUCET CONTROL VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
- 12. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.

- 13. WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISTRIBUTION DEVICES ARE PROVIDED, AT LEAST ONE OF EACH TYPE OF STATION SHALL BE LOCATED AT A SECTION OF COUNTER THAT IS AT LEAST 36" LONG AND NO MORE THAN 28" TO 34" HIGH.

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- 15. TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST 5". WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24" OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48" AND, EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.

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- 12. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.

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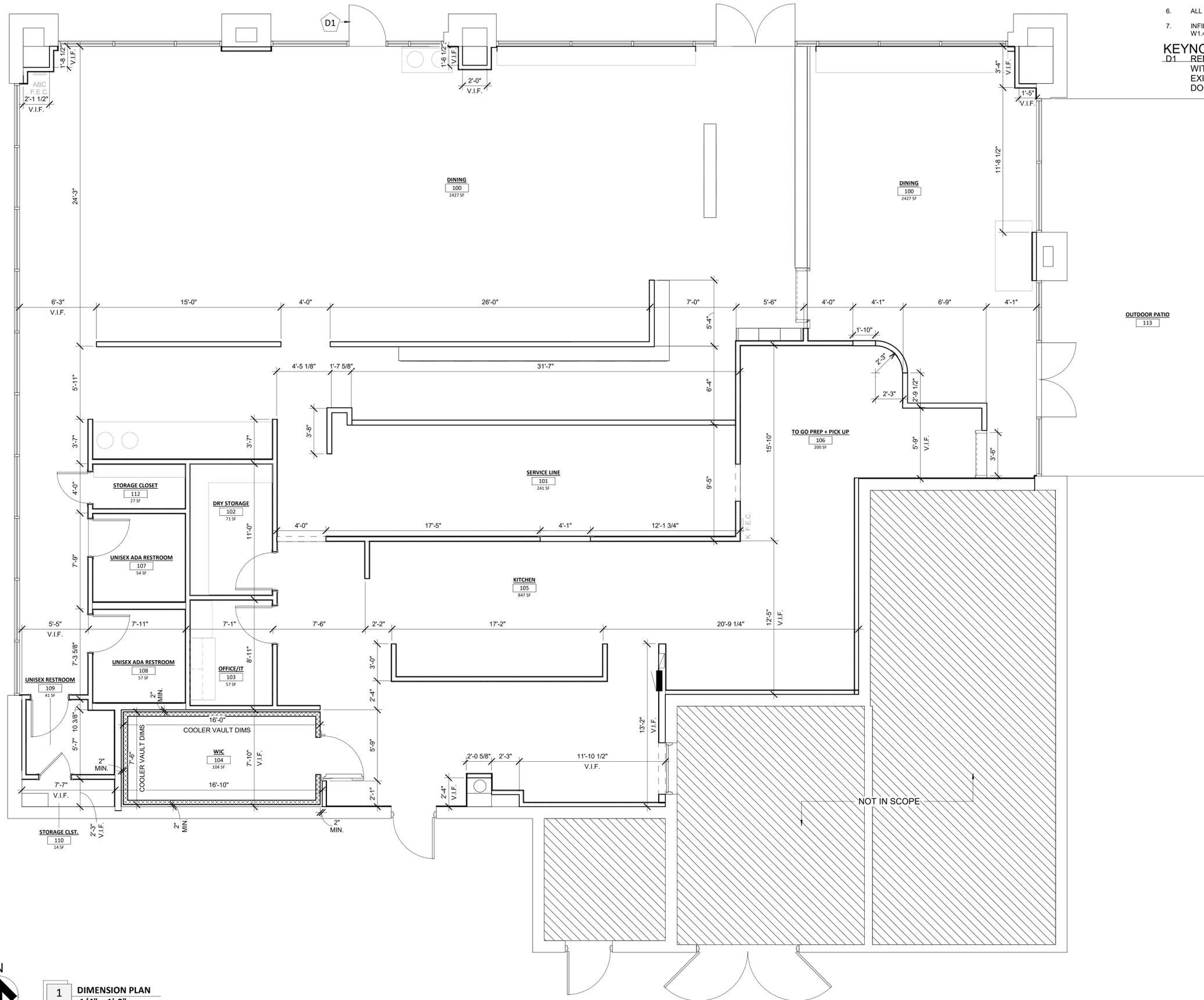
**RAMPS**

- NOTE: ANY PATH OF TRAVEL SHALL BE CONSIDERED A RAMP IF ITS SLOPE IS GREATER THAN 1" RISE IN 20" OF HORIZONTAL RUN.
- 1. THE MAXIMUM SLOPE OF A RAMP THAT SERVES ANY EXITWAY, PROVIDES ACCESS FOR PERSONS WITH DISABILITIES, OR IS IN THE PATH OF TRAVEL SHALL BE 1" RISE IN 12" OF HORIZONTAL RUN. 2. THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50.
- 3. THE WIDTH OF RAMPS SHALL BE AS REQUIRED FOR STAIRWAYS AND EXITS.
- 4. PEDESTRIAN RAMPS SERVING PRIMARY ENTRANCES TO BUILDINGS HAVING AN OCCUPANT LOAD OF 300 OR MORE SHALL HAVE A MINIMUM CLEAR WIDTH OF 60".
- 5. RAMPS SERVING GROUP R OCCUPANCIES MAY BE 36" CLEAR WIDTH WHEN THE OCCUPANT LOAD IS 50 OR LESS.
- 6. ALL OTHER PEDESTRIAN RAMPS SERVING PRIMARY ENTRANCES SHALL HAVE A MINIMUM CLEAR WIDTH OF 48".
- 7. LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF EACH RAMP.
- 8. INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30' OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION.
- 9. TOP LANDINGS SHALL BE NOT LESS THAN 60" WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60" IN THE DIRECTION OF RAMP RUN.
- 10. DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE RAMP LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPEN.
- 11. THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE OR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS.
- 12. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR THE RAMP.
- 13. INTERMEDIATE LANDINGS AT A CHANGE OF DIRECTION IN EXCESS OF 30 DEGREES AND BOTTOM LANDINGS SHALL HAVE A DIMENSION IN THE DIRECTION OF RAMP RUN OF NOT LESS THAN 72" TO ACCOMMODATE THE HANDRAIL EXTENSION.
- 14. OTHER INTERMEDIATE LANDINGS SHALL HAVE A DIMENSION IN THE DIRECTION OF RAMP RUN OF NOT LESS THAN 60".
- 15. RAMP LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP.
- 16. HANDRAILS ARE REQUIRED ON RAMPS THAT PROVIDE ACCESS IF THE RAMP SLOPE EXCEEDS 1" RISE IN 20" OF HORIZONTAL RUN, EXCEPT THAT AT EXTERIOR DOOR LANDINGS, HANDRAILS ARE NOT REQUIRED ON RAMPS THAT DO NOT EXCEED 1" RISE IN 12" IN LENGTH.
- 17. HANDRAILS SHALL BE PLACED ON EACH SIDE OF EACH RAMP, SHALL BE CONTINUOUS THE FULL LENGTH OF THE RAMP, SHALL BE 34" TO 36" ABOVE THE RAMP SURFACE, SHALL EXTEND A MINIMUM OF 1' BEYOND THE TOP AND BOTTOM OF THE RAMP, AND THE ENDS SHALL BE RETURNED TO THE GRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1-1/4" NOR MORE THAN 1-1/2", OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE, AND ALL SURFACES SHALL BE SMOOTH WITH NO SHARP CORNERS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

- 18. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF 1-1/2" BETWEEN THE WALL AND THE HANDRAIL.
- 20. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3" DEEP AND EXTENDS AT LEAST 18" ABOVE THE TOP OF THE RAIL.
- 21. ANY WALL OR OTHER SURFACE ADJACENT TO HANDRAILS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
- 22. WHERE THE RAMP LANDING IS NOT BOUNDED BY A WALL OR FENCE, THERE SHALL BE PROVIDED ON EACH SIDE OF THE RAMP LANDING WHERE THERE IS A VERTICAL DROP EXCEEDING 4", ONE OF THE FOLLOWING:
  - 22.1. A GUIDE CURB, A MINIMUM OF 2" IN HEIGHT; OR
  - 22.2. A WHEEL GUIDE RAIL SHALL BE PROVIDED, CENTERED 3" ± 1" ABOVE THE SURFACE OF THE RAMP LANDING.
- 23. WHERE A RAMP SURFACE IS BOUNDED BY A WALL OR FENCE AND THE RAMP EXCEEDS 10' IN LENGTH, THE RAMP SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS:
  - 23.1. A GUIDE CURB, A MINIMUM OF 2" IN HEIGHT; OR
  - 23.2. A WHEEL GUIDE RAIL SHALL BE PROVIDED, CENTERED 3" ± 1" ABOVE THE SURFACE OF THE RAMP.
- 24. OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED AND CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

- 25. THE MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30" BY 48". (THE MINIMUM FLOOR OR GROUND SPACE SHALL BE INCREASED TO 42" BY 48" WHEN SUCH SPACE IS PERPENDICULAR TO AN ADJACENT SEATING SPACE). THE MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT. CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME OBJECTS.
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**GENERAL NOTES**

- REFER TO PARTITION TYPES FOR THICKNESS OF WALLS AND PARTITIONS.
- WALL AND PARTITION DIMENSIONS ARE SHOWN TO FACE OF STUD, UNLESS OTHERWISE NOTED.
- FOR DOOR AND FRAME INFORMATION, SEE A6-SERIES DRAWINGS
- PROVIDE GYP. BD. CONTROL JOINTS AT WALLS OVER 30'-0" IN LENGTH.
- RESTROOMS TO HAVE MOISTURE RESISTANT GYP. BD. AT WET SIDE OF ROOM AND ADJACENT TO WATER CLOSET.
- ALL WALLS WITH CERAMIC TILE TO BE FIBER-CEMENT BACKER BOARD.
- INFILL SLAB AS REQ'D; PROVIDE MIN. 4" SLAB ON GRADE WITH 6X6 W1.4XW1.4WWF. PROVIDE MIN 10 MIL VAPOR BARRIER AS REQ'D.

**KEYNOTE**

**D1** REMOVE EXISTING STOREFRONT AND GLAZING AND REPLACE WITH STOREFRONT DOOR. MATCH DOOR HARDWARE TO EXISTING EXTERIOR STOREFRONT DOORS. PROVIDE EXTERIOR DOOR THRESHOLD.



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04/11/2025  
**Architect Name** - RYAN M. FAUST  
**Architect Number** - 4711

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**REVISIONS**

NO.	DATE	DESCRIPTION
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Drawing Size: 24 x 36  
Project #: 24136

Drawn By: HLG  
Checked By: KB

Title:  
**DIMENSION PLAN**

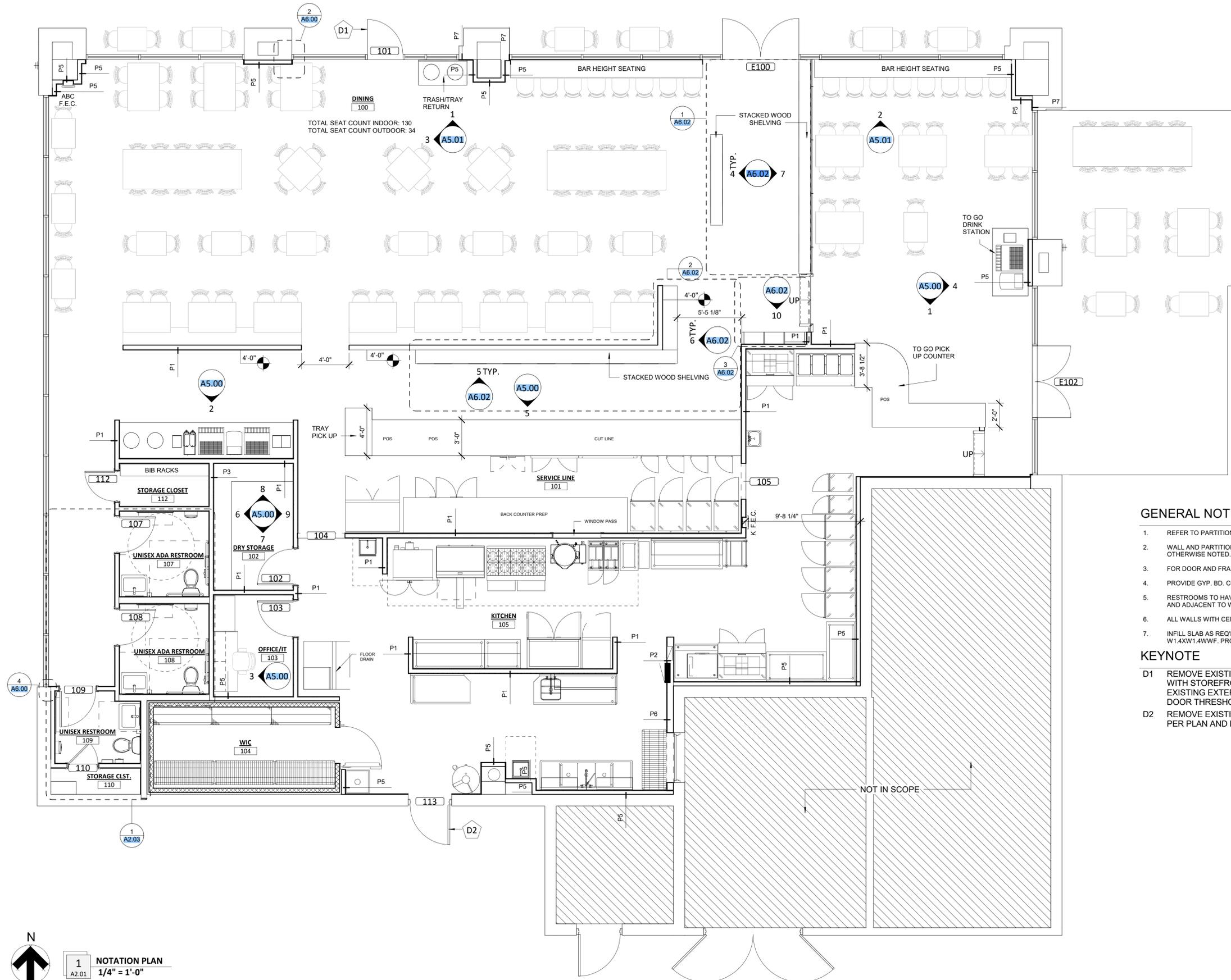
Sheet Number:  
**A2.00**

ISSUE DATE: 04/11/2025



**1** DIMENSION PLAN  
A2.00  
1/4" = 1'-0"

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**KEYNOTE**

- D1 REMOVE EXISTING STOREFRONT AND GLAZING AND REPLACE WITH STOREFRONT DOOR. MATCH DOOR HARDWARE TO EXISTING EXTERIOR SOTREFRONT DOORS. PROVIDE EXTERIOR DOOR THRESHOLD.
- D2 REMOVE EXISTING DOOR, FRAME, AND HARDWARE. REINSTALL PER PLAN AND PROVIDE ADDITIONAL HARDWARE AS REQ'D.

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**REVISIONS**

NO.	DATE	DESCRIPTION

**Drawing Size:** 24 x 36  
**Project #:** 24136  
**Drawn By:** HG  
**Checked By:** KB

**Title:**  
NOTATION PLAN

**Sheet Number:**  
**A2.01**

**ISSUE DATE:** 04/11/2025

**1**  
A2.01  
**NOTATION PLAN**  
1/4" = 1'-0"

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04/11/2025  
**Architect Name** - RYAN M. FAUST  
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REVISIONS	
NO.	DESCRIPTION

**Drawing Size:** 24 x 36  
**Project #:** 24136

**Drawn By:** HG  
**Checked By:** KB

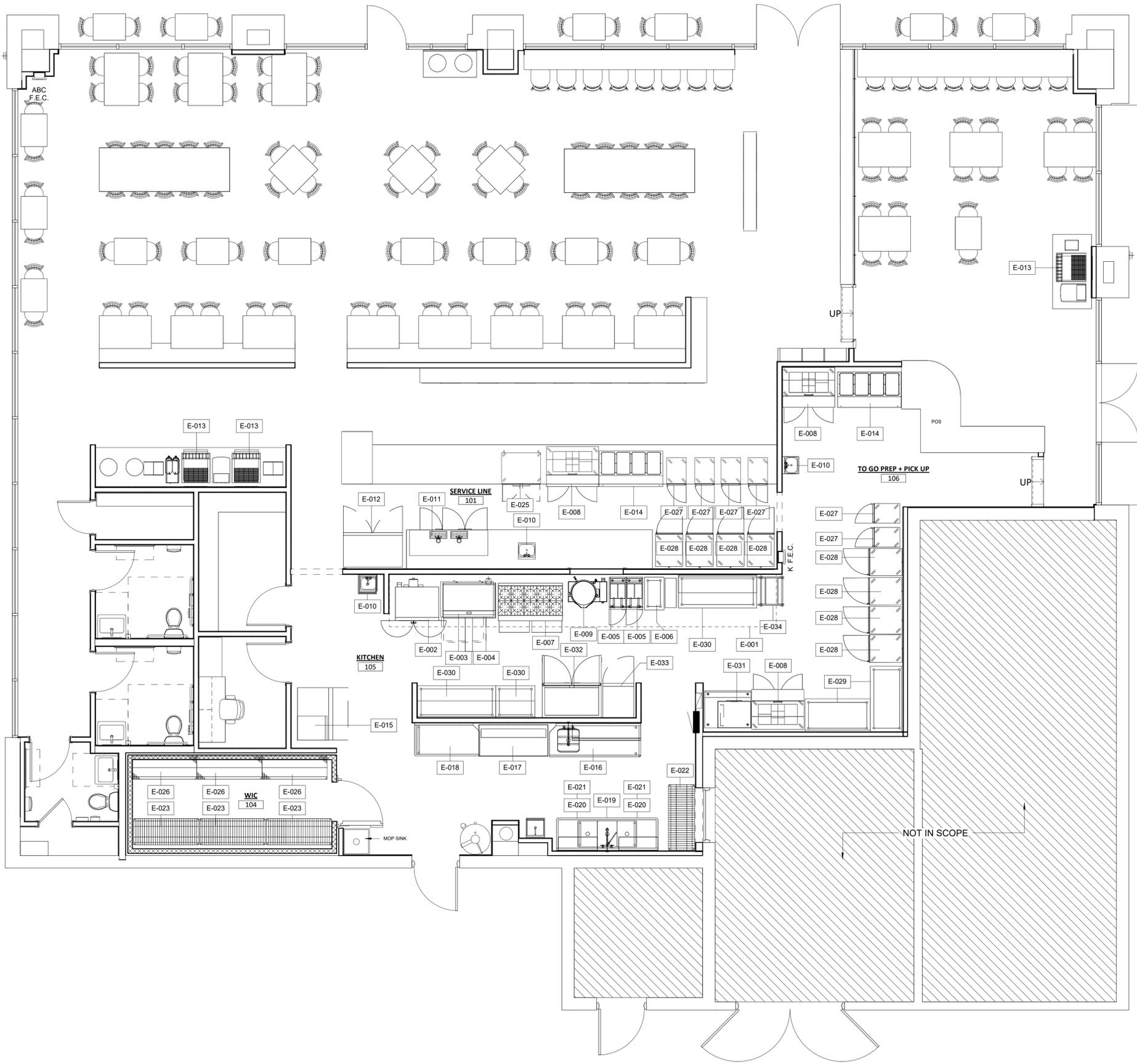
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EQUIPMENT PLAN

**Sheet Number:**  
**A2.02**

**ISSUE DATE:** 04/11/2025

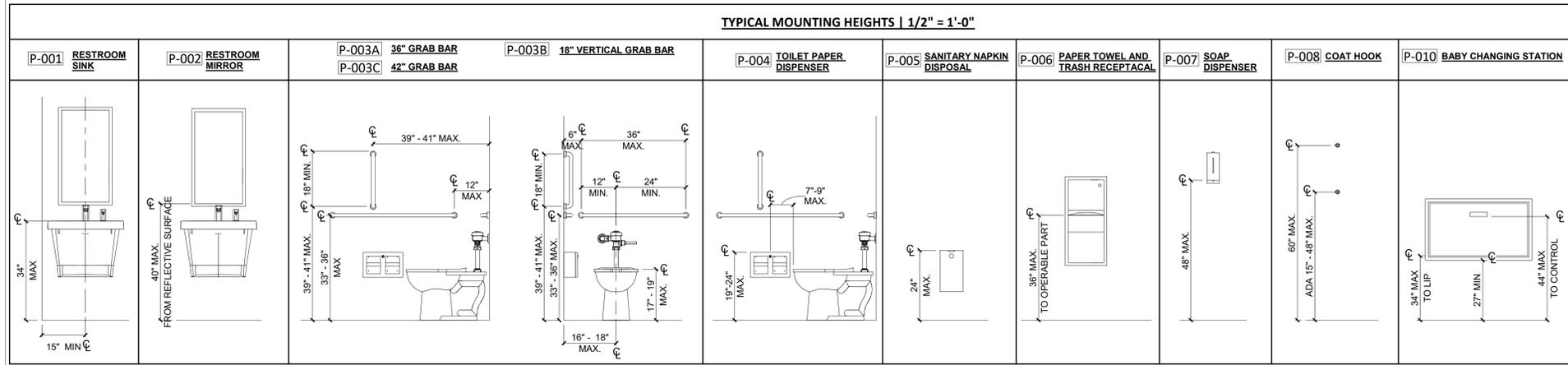
EQUIPMENT SCHEDULE		
MARK	QUANTITY	CATEGORY

E-001	1	20' EXHAUST HOOD
E-002	1	CONVECTION OVEN, GAS
E-003	1	GRIDDLE, GAS, COUNTERTOP
E-004	1	EQUIPMENT STAND, REFRIGERATED BASE
E-005	2	GAS FLOOR FRYER
E-006	1	WORK TABLE, 18", STAINLESS STEEL TOP
E-007	1	RESTAURANT RANGE, GAS, 60" 10 OPEN BURNERS
E-008	3	MEGA TOP SANDWICH/SALAD PREP REFRIGERATOR
E-009	1	KETTLE, ELECTRIC, COUNTERTOP
E-010	3	HAND SINK
E-011	1	DRAFT BEER COOLER
E-012	1	REFRIGERATED MERCHANDISER
E-013	3	NUGGET ICE MAKER
E-014	2	HOT FOOD SERVING COUNTER/TABLE
E-015	1	NUGGET ICE MAKER
E-016	1	SOILED DISHTABLE
E-017	1	DISHWASHER
E-018	1	CLEAN DISHTABLE
E-019	1	THREE (3) COMPARTMENT SINK
E-020	2	OVERSHELF
E-021	2	SHELVING, WALL MOUNTED
E-022	1	WIRE SHELVING
E-023	12	WIRE SHELVING
E-025	1	UNDERCOUNTER REFRIGERATOR
E-026	3	WIRE SHELVING
E-027	6	HEATED LOW TEMP HOLDING CABINET
E-028	8	HEATED HOLDING CABINET
E-029	1	WORK TABLE, 36", STAINLESS STEEL TOP
E-030	3	WORK TABLE, 72", STAINLESS STEEL TOP
E-031	1	ICE MAKER, CUBE-STYLE
E-032	1	REACH-IN REFRIGERATOR
E-033	1	REACH-IN FREEZER
E-034	1	BUN / SHEET PAN RACK



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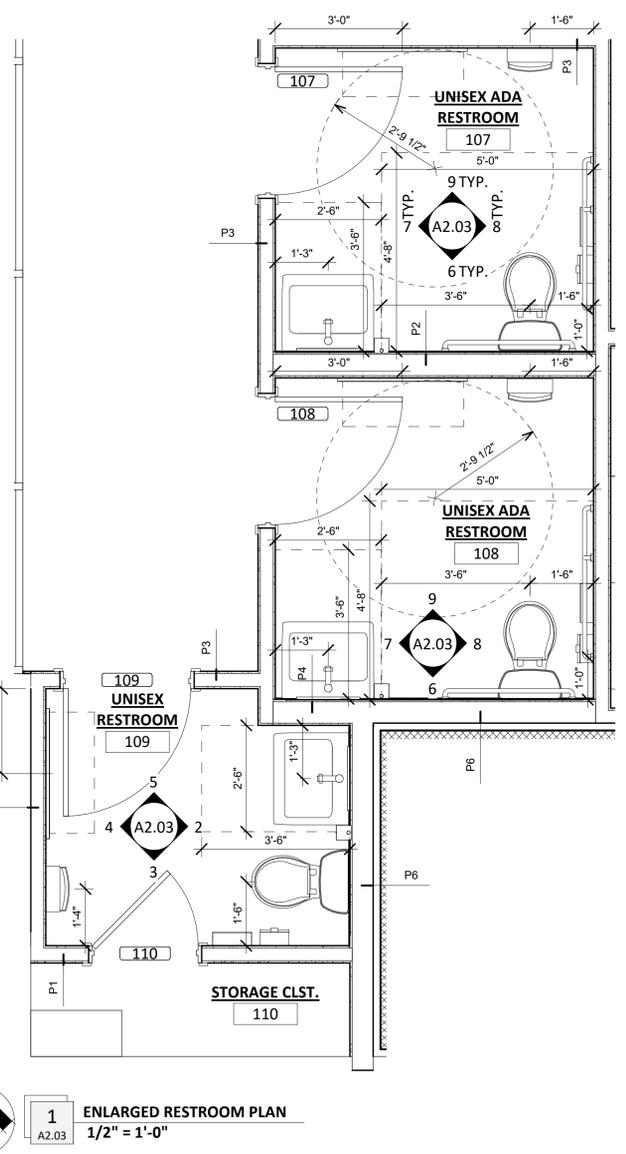
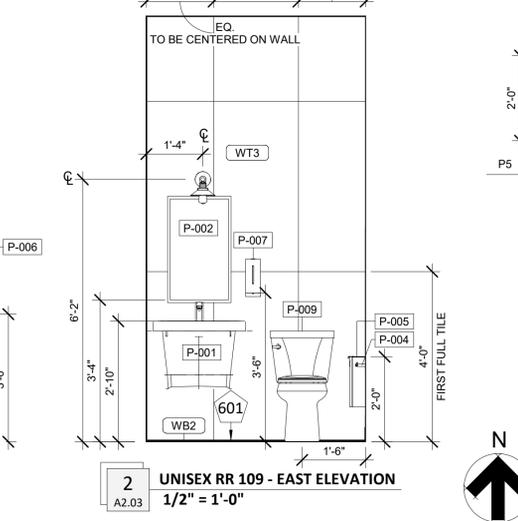
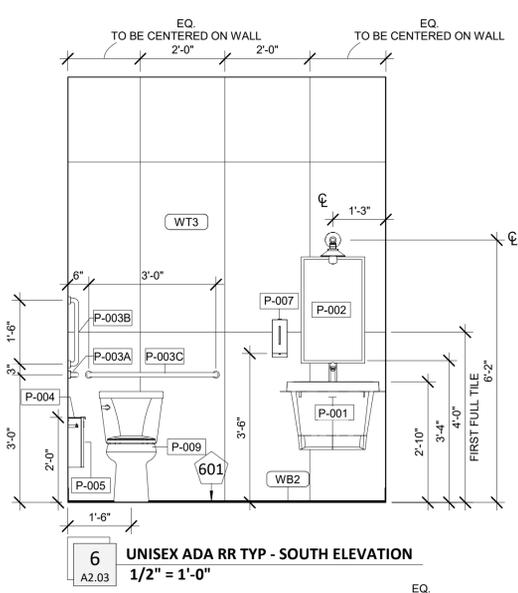
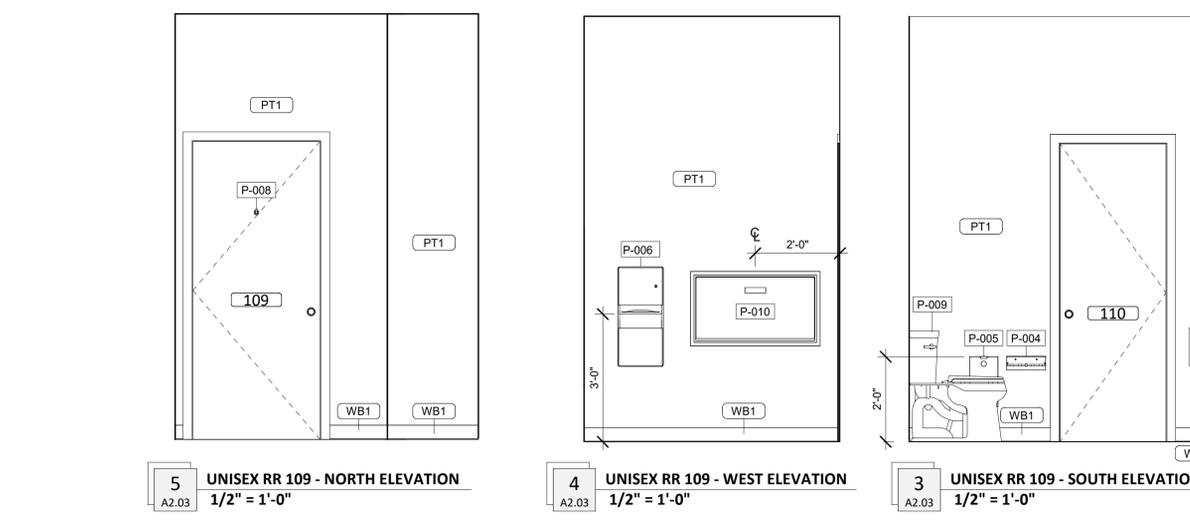
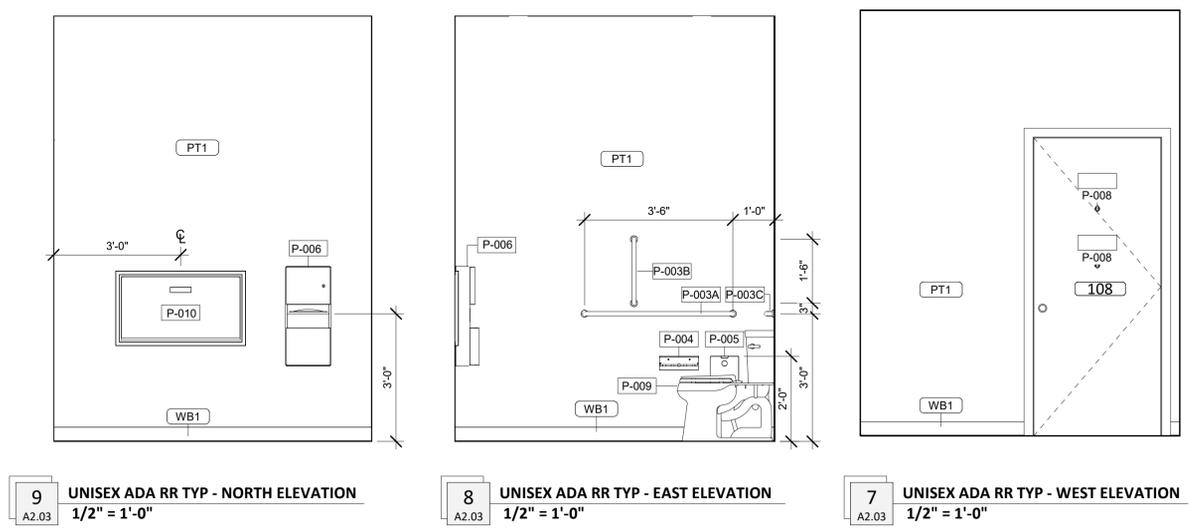
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**TYPICAL MOUNTING HEIGHTS LEGEND**  
1/2" = 1'-0"

PLUMBING FIXTURES AND ACCESSORIES SCHEDULE				
MARK	MANUFACTURER	MODEL	DESCRIPTION	NOTES
P-001	BRADLEY CORP	TLX-1 FAUCET	WALL HUNG LAVATORY AND FAUCET	FAUCET FINISH: METRO IN BRUSHED BLACK STAINLESS; COUNTERTOP FINISH: ALPINE WHITE
P-002	BOBRICK	B-290 1830	WELDED-FRAME MIRROR	FINISH: MATTE BLACK
P-003A	BOBRICK	B-5806	STRAIGHT GRAB BAR, 1-1/2" DIA.X42	FINISH: SATIN STAINLESS STEEL
P-003B	BOBRICK	B-5806	STRAIGHT GRAB BAR, 1-1/2" DIA.X18" VERTICAL MOUNTED	FINISH: SATIN STAINLESS STEEL
P-003C	BOBRICK	B-5806	STRAIGHT GRAB BAR, 1-1/2" DIA.X36	FINISH: SATIN STAINLESS STEEL
P-004	BOBRICK	B-540	TOILET TISSUE HOLDER WITH UTILITY SHELF	FINISH: MATTE BLACK
P-005	BOBRICK	B-35139	DISPOSAL, SANITARY NAPKIN, SURFACE MOUNTED	FINISH: MATTE BLACK
P-006	BOBRICK	B-43699	PAPER TOWEL AND WASTE RECEPTACLE	FINISH: SATIN STAINLESS STEEL
P-007	BOBRICK	B-2013	SOAP DISPENSER	FINISH: MATTE BLACK
P-008	BOBRICK	B-9542	COAT HOOK, SURFACE MOUNTED	FINISH: MATTE BLACK
P-009	KOHLER	K-5481-0	FLOOR MOUNTED TOILET	FINISH: WHITE
P-010	BRADLEY CORP	962	RECESSED BABY CHANGING STATION	FINISH: STAINLESS STEEL

KEYNOTE LEGEND		GENERAL MOUNTING HEIGHTS NOTES	
NO.	DESCRIPTION		
601	TILE TO START HERE.	1	FIXTURES AND ACCESSORIES DESIGNATED AS "HANDICAPPED" OR "HC", SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE PLUMBING CODE AND THE AMERICANS WITH DISABILITIES ACT GUIDELINES.
602	WALL OPENING TRIM TO BE STAINED WS1.	2	PROVIDE BLOCKING, BRACKETS AND MISCELLANEOUS MATERIALS NECESSARY FOR THE INSTALLATION OF ACCESSORIES. SEE FLOOR PLANS AND A0.02 FOR PARTITION INFORMATION.
603	MENU BOARD SCREEN; OFCI.	3	LOCATE TOILET ACCESSORIES AS SHOWN IN LARGE SCALE TOILET PLANS AND MOUNT AT HEIGHTS INDICATED HEREIN.
604	SCREEN BY BLACK DOG VIDEO.	4	GRAB BARS MUST BE CAPABLE OF RESISTING A FULL LOAD OF 400 LBS EXERTED AT ANY POINT IN ANY DIRECTION.
D1	REMOVE EXISTING STOREFRONT AND GLAZING AND REPLACE WITH STOREFRONT DOOR, MATCH DOOR HARDWARE TO EXISTING EXTERIOR STOREFRONT DOORS. PROVIDE EXTERIOR DOOR THRESHOLD.	5	WRAP ALL EXPOSED PIPING UNDER LAVATORIES WITH PROTECTIVE INSULATION FOR PROTECTION OF PEOPLE IN WHEEL CHAIRS.
D2	REMOVE EXISTING DOOR, FRAME, AND HARDWARE. REINSTALL PER PLAN AND PROVIDE ADDITIONAL HARDWARE AS REQ'D.	6	FIXTURE DESIGNATIONS SHOWN SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL (A-SERIES) SHEETS ONLY. DESIGNATIONS ON M.E.P. DOCUMENTS MAY VARY.
101	DASH LINE INDICATES EXISTING CONCRETE FLOOR. FIELD VERIFY EXTENTS.	7	COORDINATE LOCATION OF REAR GRAB BARS WITH WATER CLOSET FLUSH VALVES.



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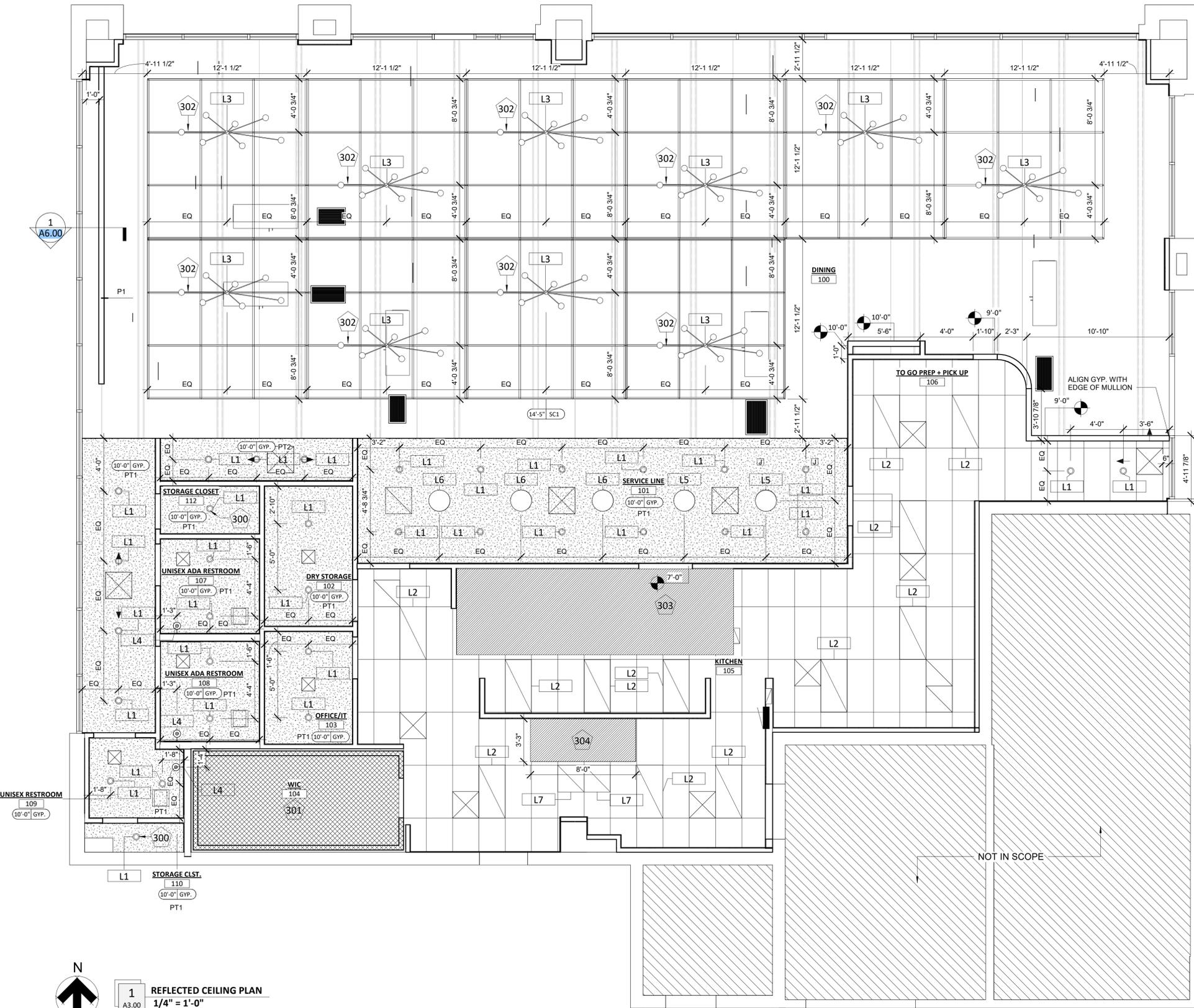
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**Architect Name** - RYAN M. FAUST  
**Architect Number** - 4711  
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**REVISIONS**

NO.	DATE	DESCRIPTION

Drawing Size: 24 x 36  
Project #: 24136  
Drawn By: HLG  
Checked By: KB  
Title: ENLARGED RESTROOM PLAN + SCHEDULE  
Sheet Number: **A2.03**  
ISSUE DATE: 04/11/2025

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### LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION
L1	COOPER LIGHTING	HALO HC4	4" LED DOWNLIGHT
L2	COOPER LIGHTING	METALUX CRUZE SB SELECTABLE TROFFER	2'X4' LED SPECIFICATION GRADE TROFFER
L3	CDS LIGHTING	HANG	PENDANT
L4	CDS LIGHTING	JULIUS	VANITY WALL SCOCNE
L5	HANSON HEAT LAMPS	404800RETSC	HEAT LAMP WITH COPPER FINISH
L6	CDS LIGHTING	BENTLEY	DECORATIVE PENDANT IN COPPER FINISH
L7	COOPER LIGHTING	METALUX CRUZE SB SELECTABLE TROFFER	2'X2' LED SPECIFICATION GRADE TROFFER

### KEYNOTE LEGEND - RCP

NO.	DESCRIPTION
300	IN ROOMS WITH ONLY ONE LIGHT FIXTURE; EXAMPLE: STORAGE CLOSET; LIGHT TO BE CENTERED IN ROOM U.N.O.
301	PREMANUFACTURED INSULATED WALK-IN COOLER; PROVIDED BY OTHERS.
302	CENTER LIGHT FIXTURE ON GRID CEILING TRACK.
303	KITCHEN HOOD; CFCI.
304	DISH PIT HOOD; CFCI; REF./COORDINATE WITH MECHANICAL.

- EXPOSED CEILING**  
PAINT ALL EXPOSED STRUCTURE, CONDUITS, DUCTWORK, PIPING, ETC. PT2 U.N.O.
  - (GYP) GYPSUM BOARD CEILING**  
5/8" GYPSUM BOARD AT 24" O.C. ATTACHED TO 2X FRAMING. TO BE PAINTED
  - ACT CLEANABLE CEILING**  
ARMSTRONG KITCHEN ZONE CEILING SYSTEM 24"X48" CLEANABLE ACT CEILING TILE
  - SUSPENDED CEILING GRID**  
USG GRIDWARE OPEN CELL DECORATIVE SYSTEM, 4'X4' OPENINGS IN FLAT BLACK
  - 4" RECESSED CAN FIXTURE | L1
  - 2'X4' LED TROFFER | L2
  - PENDANT LIGHT FIXTURE | L3
  - VANITY LIGHT FIXTURE | L4
  - PENDANT LIGHT FIXTURE | L5
  - PENDANT LIGHT FIXTURE | L6
  - 2'X2' LED TROFFER | L7
- \*REF. MEP DRAWINGS FOR ADDITIONAL INFORMATION
- ### RCP SYMBOLS

**b.uf**  
STUDIO

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REVISIONS	
NO.	DESCRIPTION

Drawing Size: 24 x 36  
 Project #: 24136  
 Drawn By: HG  
 Checked By: KB  
 Title: REFLECTED CEILING PLAN

Sheet Number:  
A3.00

ISSUE DATE: 04/11/2025

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REVISIONS	
NO.	DESCRIPTION

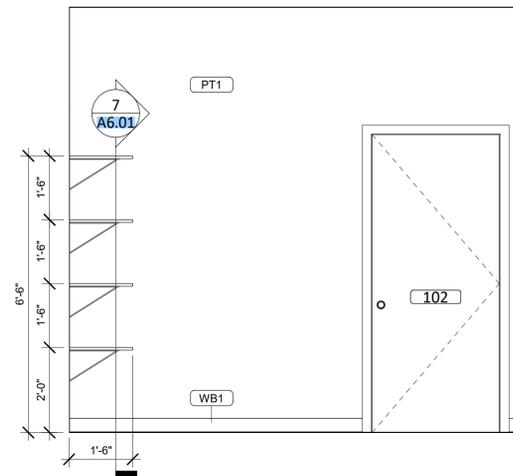
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Project #: 24136  
Drawn By: HLG  
Checked By: KB  
Title: INTERIOR ELEVATIONS

Sheet Number:

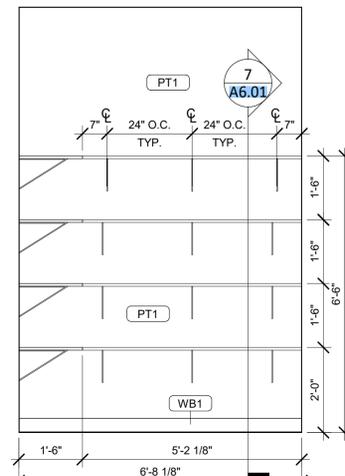
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ISSUE DATE: 04/11/2025

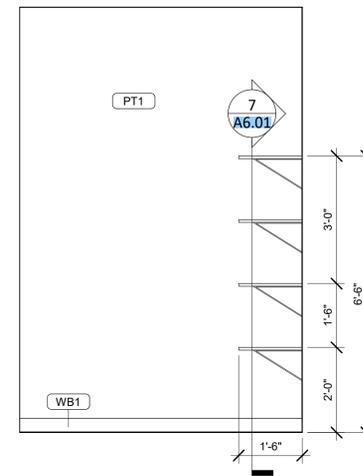
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NO.	DESCRIPTION
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602	WALL OPENING TRIM TO BE STAINED WS1.
603	MENU BOARD SCREEN; OFCI.
604	SCREEN BY BLACK DOG VIDEO.



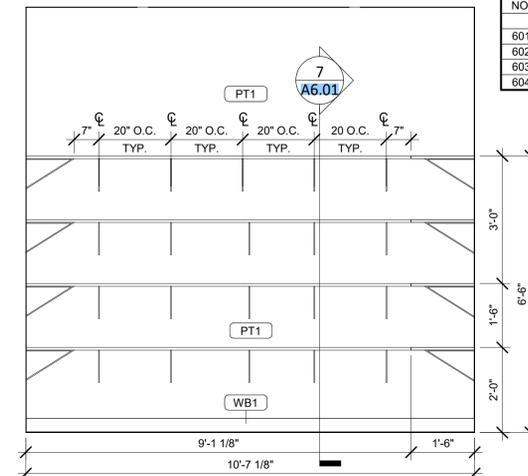
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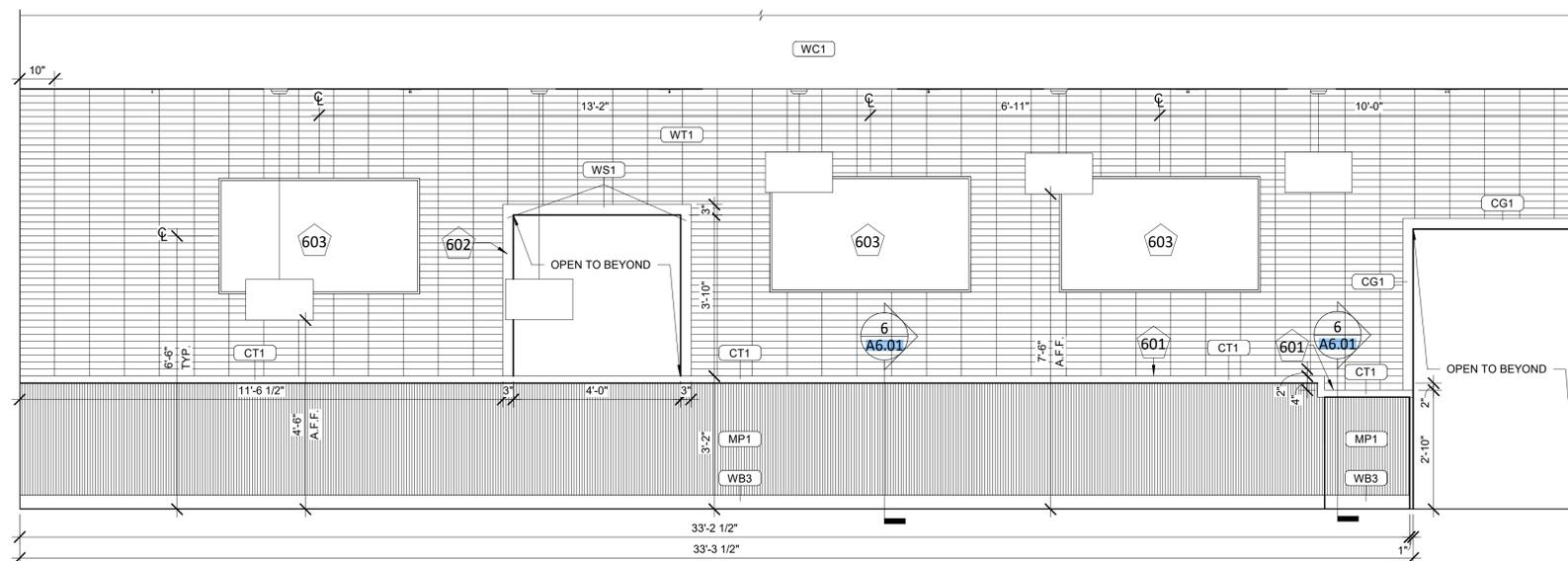
8 DRY STORAGE 102 - NORTH ELEVATION  
1/2" = 1'-0"



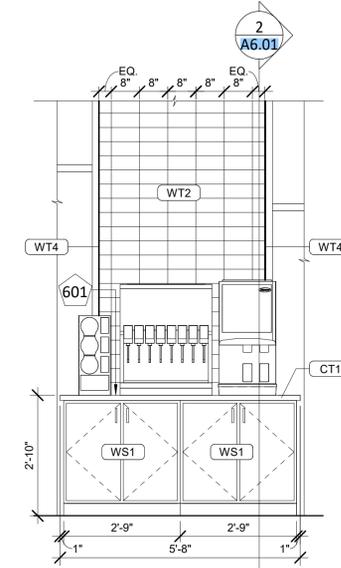
7 DRY STORAGE 102 - SOUTH ELEVATION  
1/2" = 1'-0"



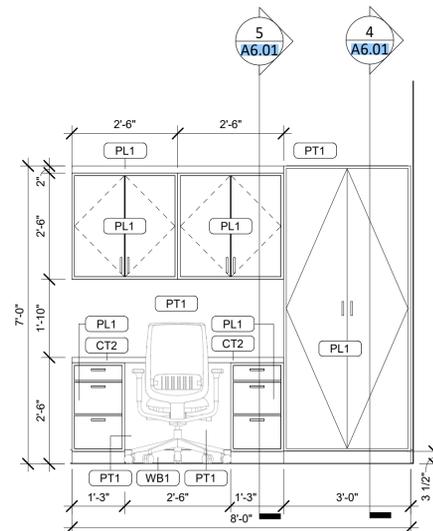
6 DRY STORAGE 102 - WEST ELEVATION  
1/2" = 1'-0"



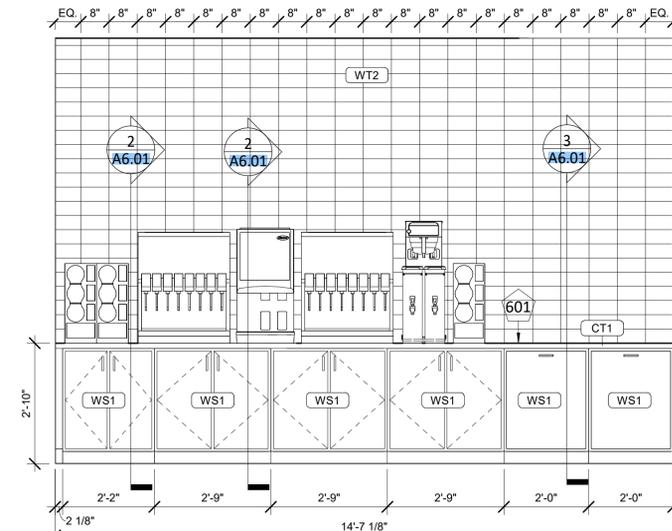
5 SERVICE LINE 101 - CUT LINE + POS  
1/2" = 1'-0"



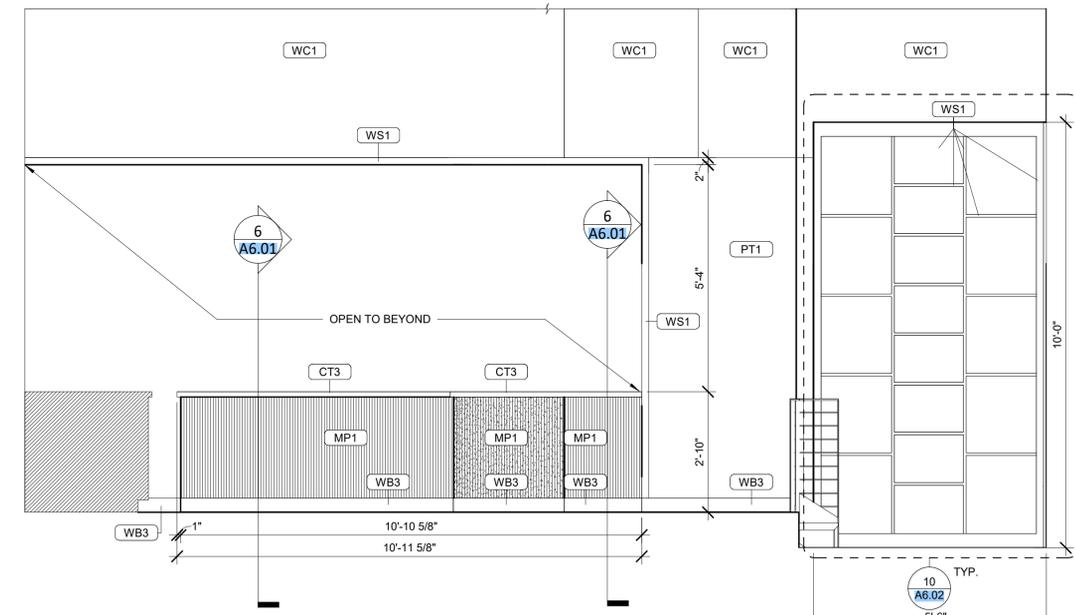
4 DINING 100 - TO GO PICK UP + DRINK STATION  
1/2" = 1'-0"



3 OFFICE/IT 103 - DESK ELEVATION  
1/2" = 1'-0"



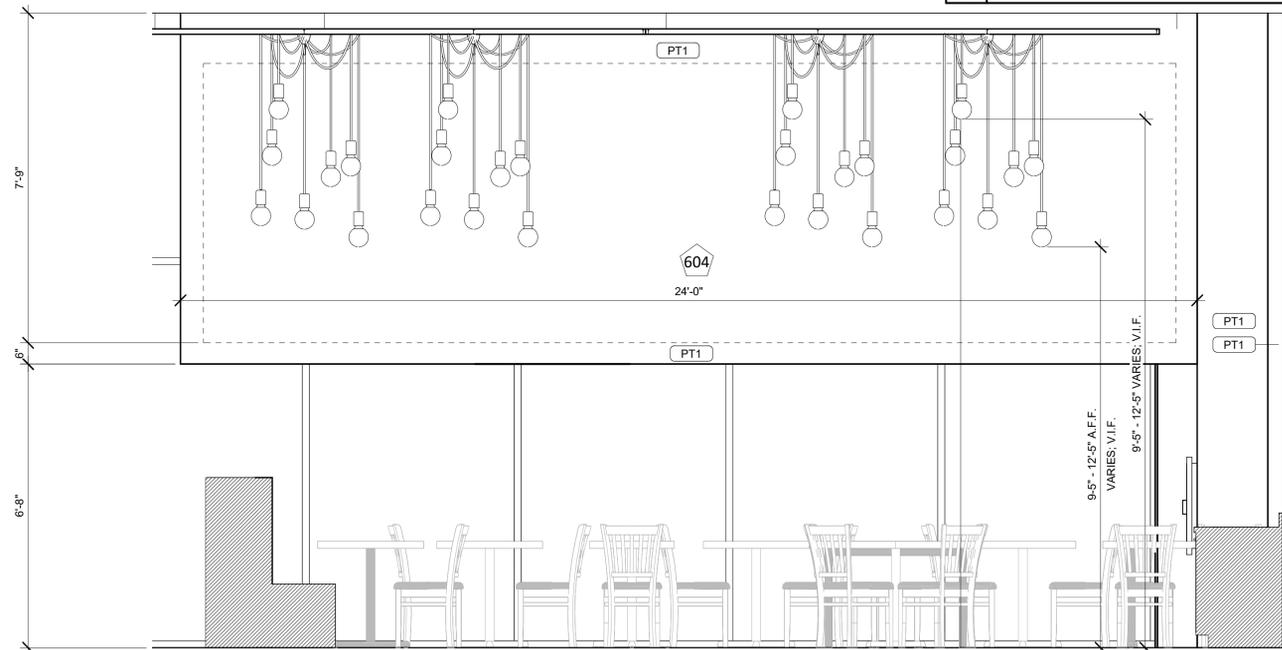
2 DINING 100 - DRINK STATION + TRASH  
1/2" = 1'-0"



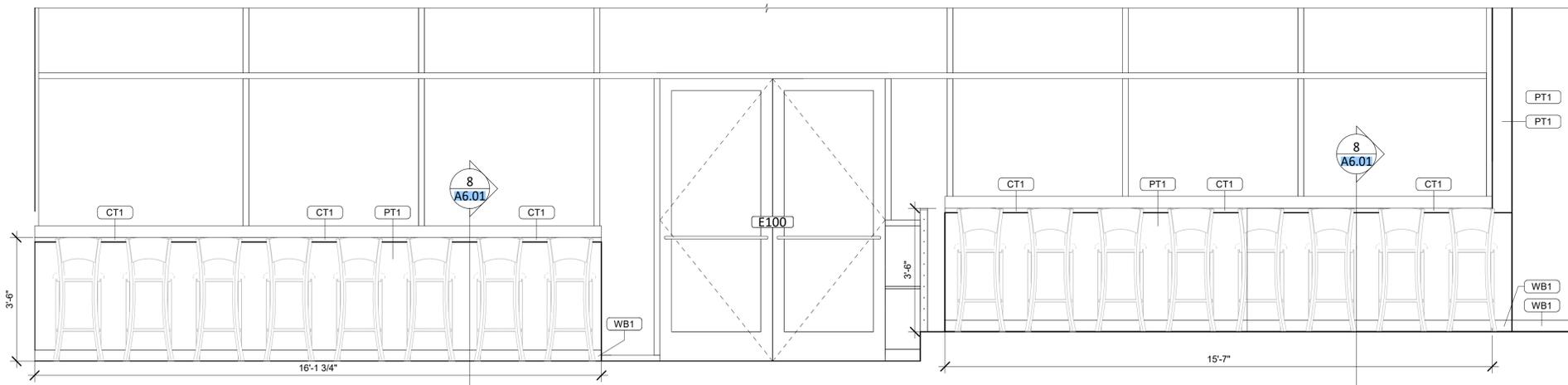
1 DINING 100 - TO GO PICK UP + DRINK STATION  
1/2" = 1'-0"

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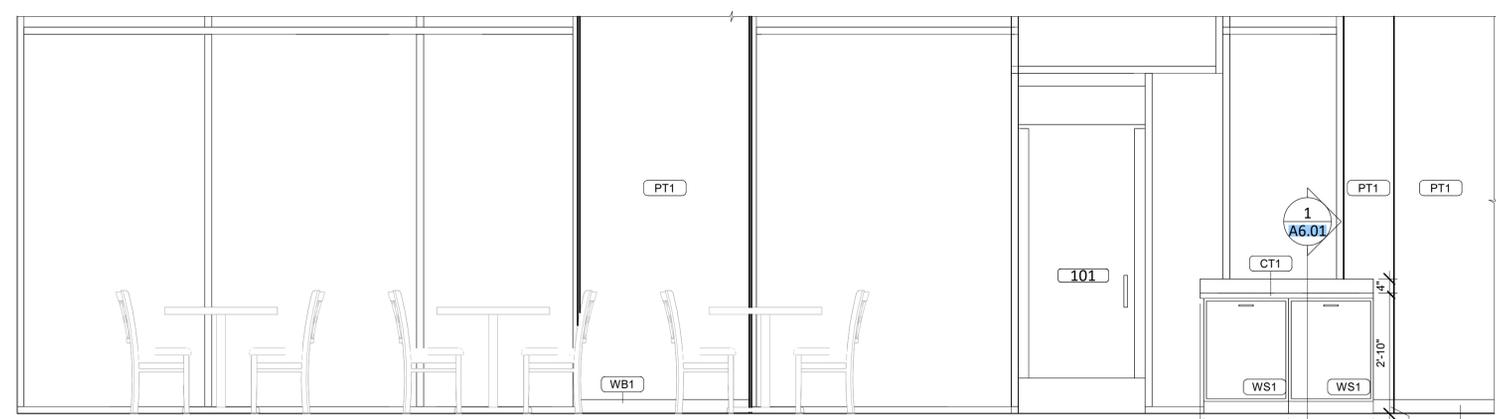
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NO.	DESCRIPTION
601	TILE TO START HERE.
602	WALL OPENING TRIM TO BE STAINED WS1.
603	MENU BOARD SCREEN: OFCI.
604	SCREEN BY BLACK DOG VIDEO.



**3 DINING 100 - SEATING**  
1/2" = 1'-0"



**2 DINING 100 - SEATING**  
1/2" = 1'-0"



**1 DINING 100 - SEATING**  
1/2" = 1'-0"



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REVISIONS		
NO.	DATE	DESCRIPTION

Drawing Size: 24 x 36  
Project #: 24136  
Drawn By: HLG  
Checked By: KB

Title:  
INTERIOR ELEVATIONS  
+ DETAILS

Sheet Number:  
**A5.01**

ISSUE DATE: 04/11/2025

DOOR & OPENINGS SCHEDULE														
ROOM NAME	NO.	SIZE		THICKNESS	ELEVATION	MATERIAL	LEAF		GLAZING	ELEVATION	FRAME		HARDWARE	COMMENTS
		WIDTH	HEIGHT				FINISH	GLAZING			MATERIAL	FINISH		
DINING	101	3'-0"	8'-0"		D2	ALUM	MATCH EXISTING STOREFRONT	MATCH EXISTING STOREFRONT	F1	ALUM	MATCH EXISTING STOREFRONT	MATCH EXISTING STOREFRONT DOOR HARDWARE	KEY ALL DOORS ALIKE AND PROVIDE KEYS TO OWNER AT TIME OF Co/O	
DRY STORAGE	102	3'-0"	7'-0"	1 3/4"	D1	HM	PAINT TO MATCH ADJ. WALL	-	F2	HM	PAINT TO MATCH ADJ. WALL	2		
OFFICE/IT	103	3'-0"	7'-0"	1 3/4"	D1	HM	PAINT TO MATCH ADJ. WALL	-	F2	HM	PAINT TO MATCH ADJ. WALL	3		
SERVICE LINE	104	4'-0"	7'-0"		-	-	-	-	F3	HM	-	-	PROVIDED BY KITCHEN SUPPLIER; GC TO COORDINATE OPENING	
KITCHEN	105	3'-0"	7'-0"		-	-	-	-	F3	HM	-	-	PROVIDED BY KITCHEN SUPPLIER; GC TO COORDINATE OPENING	
UNISEX ADA RESTROOM	107	3'-0"	7'-0"	1 3/4"	D1	HM	PAINT TO MATCH ADJ. WALL	-	F2	HM	PAINT TO MATCH ADJ. WALL	1		
UNISEX ADA RESTROOM	108	3'-0"	7'-0"	1 3/4"	D1	HM	PAINT TO MATCH ADJ. WALL	-	F2	HM	PAINT TO MATCH ADJ. WALL	1		
UNISEX RESTROOM	109	3'-0"	7'-0"	1 3/4"	D1	HM	PAINT TO MATCH ADJ. WALL	-	F2	HM	PAINT TO MATCH ADJ. WALL	1		
STORAGE CLST.	110	2'-6"	7'-0"	1 3/4"	D1	HM	PAINT TO MATCH ADJ. WALL	-	F2	HM	PAINT TO MATCH ADJ. WALL	3		
STORAGE CLOSET	112	2'-6"	7'-0"	1 3/4"	D1	HM	PAINT TO MATCH ADJ. WALL	-	F2	HM	PAINT TO MATCH ADJ. WALL	3		
KITCHEN	113	3'-4"	7'-0"		-	-	-	-	-	-	-	-		

GENERAL DOOR SCHEDULE NOTES	
1	ALL DOORS SHALL BE 1 3/4" THICK UNLESS OTHERWISE.
2	FOR HEAD, JAMB AND THRESHOLD DETAILS SEE A7-SERIES DRAWINGS
3	ALL DOORS SHALL HAVE A 3/4" MAXIMUM UNDERCUT UNLESS NOTED OTHERWISE.
4	GROUT SOLID HOLLOW METAL FRAMES OCCURRING IN CONCRETE, PRE-CAST CONCRETE OR MASONRY WALLS.
5	PROVIDE INSULATED GLASS WHERE GLASS IS INDICATED FOR EXTERIOR DOOR LOCATIONS
6	PROVIDE INSULATED DOORS AT ALL EXTERIOR DOOR LOCATIONS.
7	THE WIDTH OF HOLLOW METAL FRAMES IN CMU PARTITIONS OR WALLS SHALL BE EQUAL TO THE ACTUAL THICKNESS OF THE PARTITION OR WALL PLUS 1/2" ON EACH SIDE.
8	FOR PARTITION THICKNESSES SEE A0.02 AND A2-SERIES DRAWINGS
9	VERIFY THICKNESSES OF EXISTING PARTITIONS SCHEDULED TO RECEIVE NEW HOLLOW METAL FRAMES PRIOR TO ORDERING FRAMES.
10	PROVIDE BLOCKING AS REQUIRED FOR INSTALLATION OF JAMBS
11	AT EXTERIOR HOLLOW METAL FRAMES TO RECEIVE GROUT OR MORTAR, COAT INSIDE OF THE FRAME FROM BOTTOM UP TO 3" MINIMUM WITH ASPHALTIC COATING.

**buf**  
STUDIO

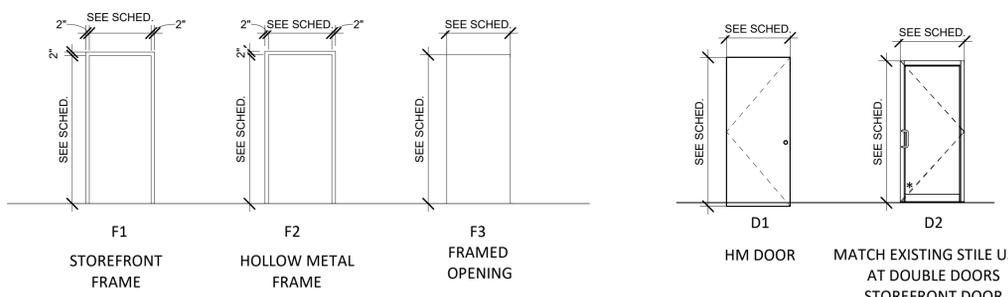
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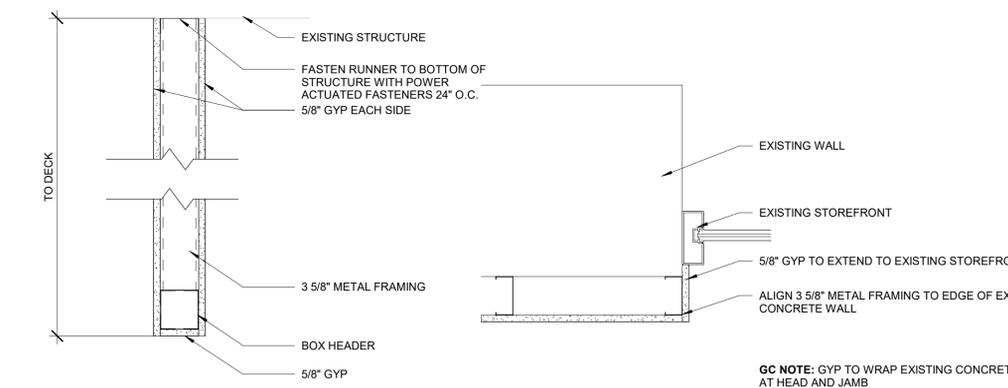
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**LEGEND - DOOR FRAME TYPES**  
1/4" = 1'-0"

**LEGEND - DOOR LEAF TYPES** \* REFER TO DOOR SCHEDULE FOR GLAZING TYPE.  
1/4" = 1'-0"

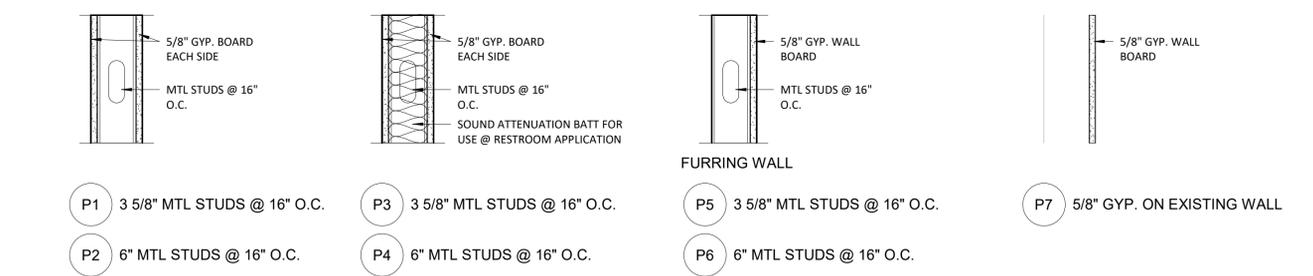


1 A6.00 SOFFIT DETAIL  
1 1/2" = 1'-0"

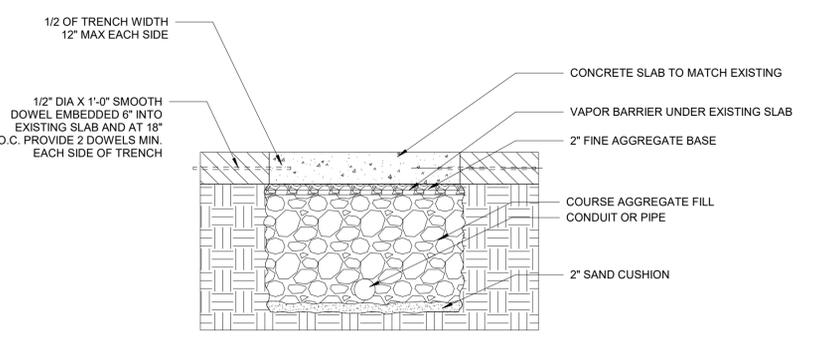
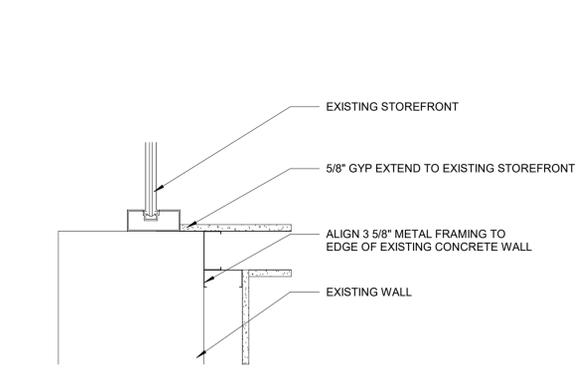
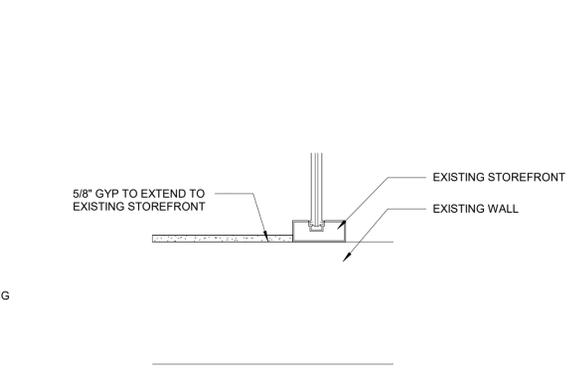
2 A6.00 TYP. WALL FURR OUT AT STOREFRONT  
1 1/2" = 1'-0"

3 A6.00 EXISTING WALL TO STOREFRONT FINISH DETAIL  
1 1/2" = 1'-0"

4 A6.00 WALL TO STOREFRONT  
1 1/2" = 1'-0"



PARTITION TYPES  
1 1/2" = 1'-0"



5 A6.00 SLAB INFILL DETAIL  
3/4" = 1'-0"

\*GC TO COORDINATE ADDITIONAL HARDWARE REQUIREMENTS FOR EXIST. SECURITY SYSTEM ON ALL EXTERIOR DOOR APPLICATIONS

- Hardware Set: 1**  
Doors: INTERIOR PRIVACY (RESTROOM)  
Each Door to Have:
- 1 EA PRIVACY LEVER VN102 FBL SURE-LOC
  - 1 1/2 PAIR 3.5" HINGES S3P1010FRP622 SCHLAGE
  - 1 EA STRIKE PLATE 84638-514 KWIKSET
  - 1 EA CLOSER 8900 (693 FINISH) DORMAKABA
  - 1 EA DOOR STOP WS406/407CCV (BLACK) IVES
  - 1 EA DOOR SHOE 209\_V BLACK SUEDE POWDERCOAT PEMKO
- Hardware Set: 2**  
Doors: INTERIOR PASSAGE  
Each Door to Have:
- 1 EA PASSAGE LEVER VN101 FBL SURE-LOC
  - 1 1/2 PAIR 3.5" HINGES S3P1010FRP622 SCHLAGE
  - 1 EA STRIKE PLATE 84638-514 KWIKSET
  - 1 EA CLOSER 8900 (693 FINISH) DORMAKABA
  - 1 EA DOOR STOP WS406/407CCV (BLACK) IVES
- Hardware Set: 3**  
Doors: INTERIOR ENTRY (OFFICE/IT)  
Each Door to Have:
- 1 EA ENTRY LEVER VN107 FBL SURE-LOC
  - 1 1/2 PAIR 3.5" HINGES S3P1010FRP622 SCHLAGE
  - 1 EA STRIKE PLATE 84638-514 KWIKSET
  - 1 EA DOOR STOP 8900 (693 FINISH) DORMAKABA
  - 1 EA DOOR STOP WS406/407CCV (BLACK) IVES

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CAMPUS INFILL  
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04/11/2025  
Architect Name - RYAN M. FAUST  
Architect Number - 4711  
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REVISIONS		
NO.	DATE	DESCRIPTION

Drawing Size: 24 x 36  
Project #: 24136  
Drawn By: MEW  
Checked By: KB  
Title: DOOR AND OPENING SCHEDULE AND DETAILS

Sheet Number:  
**A6.00**

ISSUE DATE: 04/11/2025

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REVISIONS	
NO.	DESCRIPTION

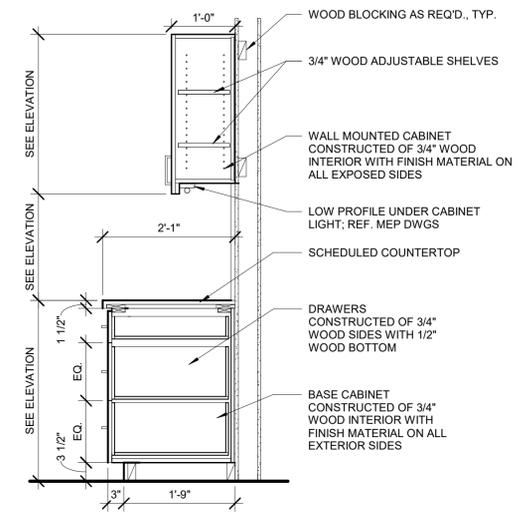
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**Project #:** 24136

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**Checked By:** KB

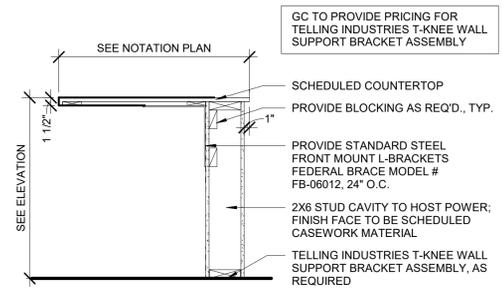
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CASEWORK DETAILS

**Sheet Number:**  
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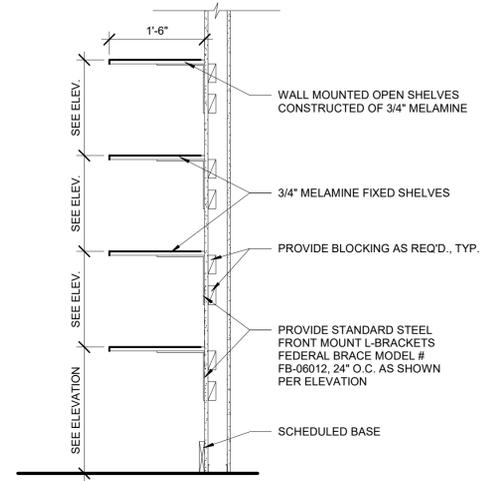
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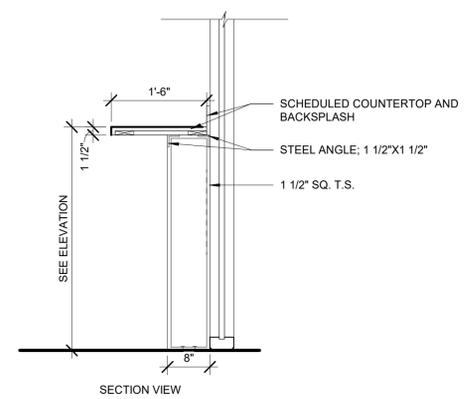
**5 SECTION @ BASE CABINETS & UPPERS**  
3/4" = 1'-0"



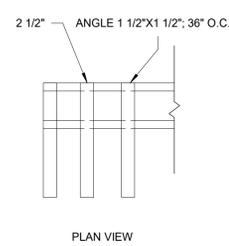
**6 SECTION @ COUNTER**  
3/4" = 1'-0"



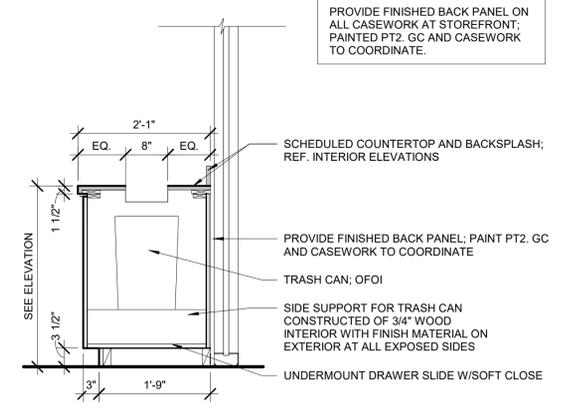
**7 SECTION AT DRY STORAGE SHELVING**  
3/4" = 1'-0"



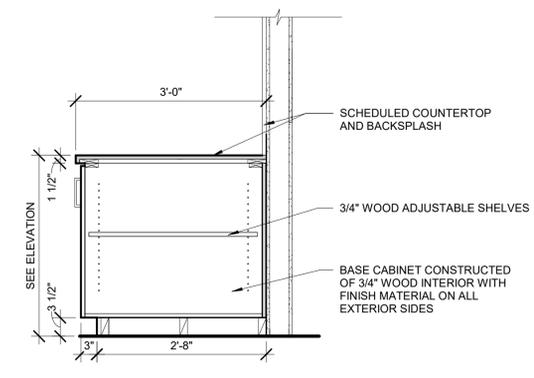
**8 SECTION @ BAR COUNTER**  
3/4" = 1'-0"



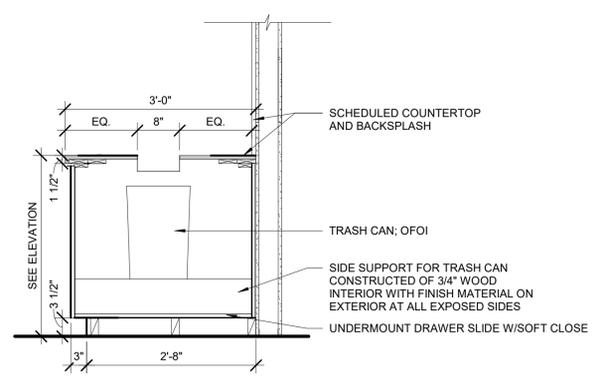
PLAN VIEW



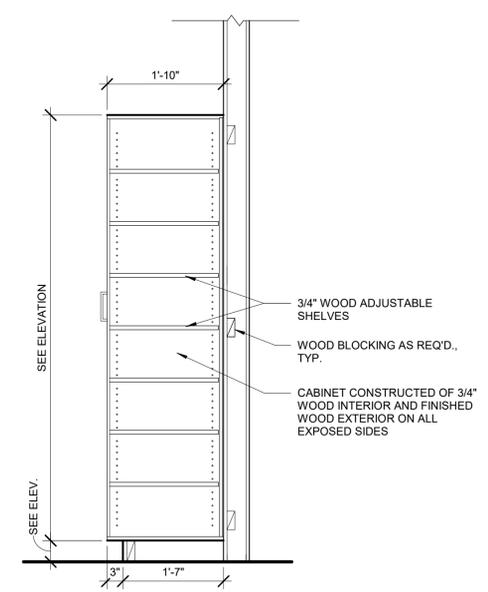
**1 SECTION @ TRASH PULL OUT**  
3/4" = 1'-0"



**2 SECTION @ BASE CABINET - DRINK STATION + TRASH**  
3/4" = 1'-0"



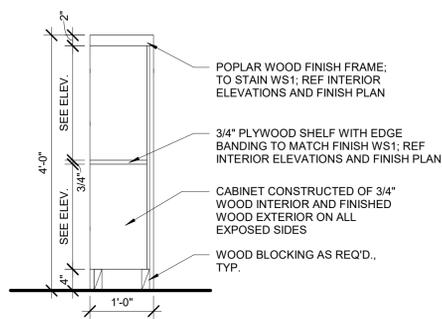
**3 SECTION @ TRASH PULL OUT**  
3/4" = 1'-0"



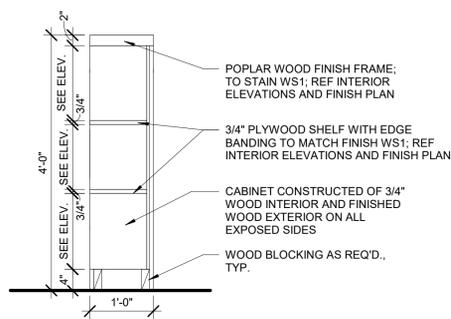
**4 SECTION @ VERTICAL CABINET**  
3/4" = 1'-0"

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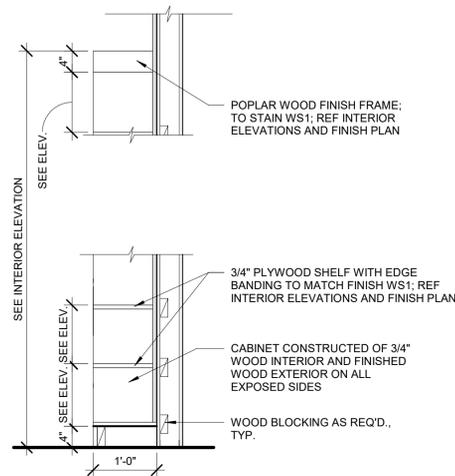
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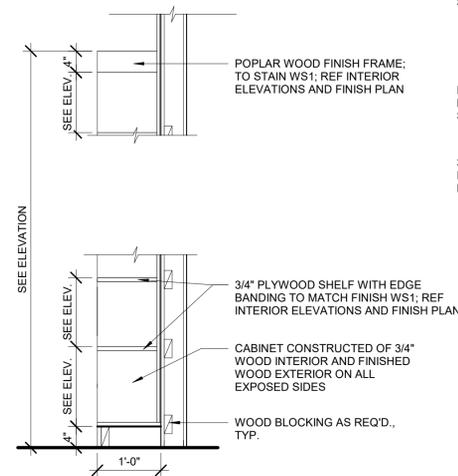
14 CASEWORK DETAIL - STACKED WOOD SHELVING TYPICAL  
3/4" = 1'-0"



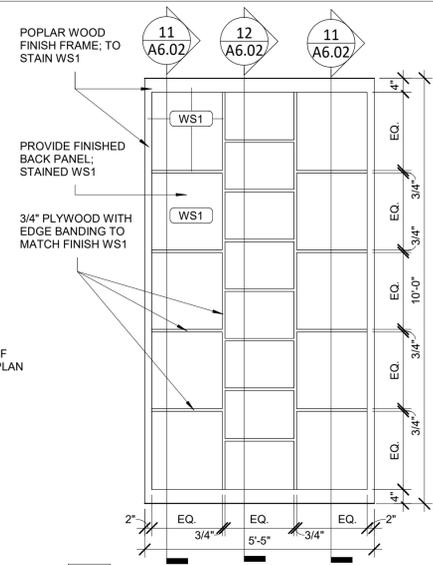
13 CASEWORK DETAIL - STACKED WOOD SHELVING TYPICAL  
3/4" = 1'-0"



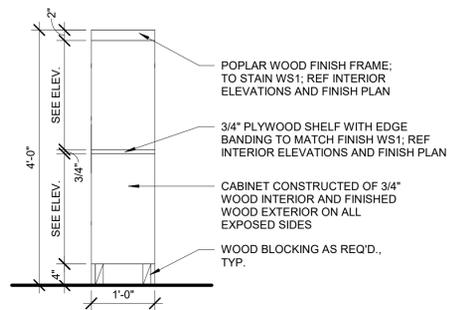
12 CASEWORK DETAIL - STACKED WOOD SHELVING TALL  
3/4" = 1'-0"



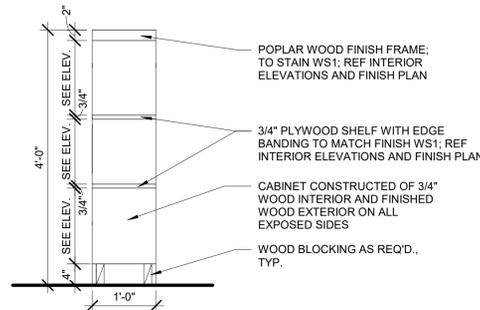
11 CASEWORK DETAIL - STACKED WOOD SHELVING TALL  
3/4" = 1'-0"



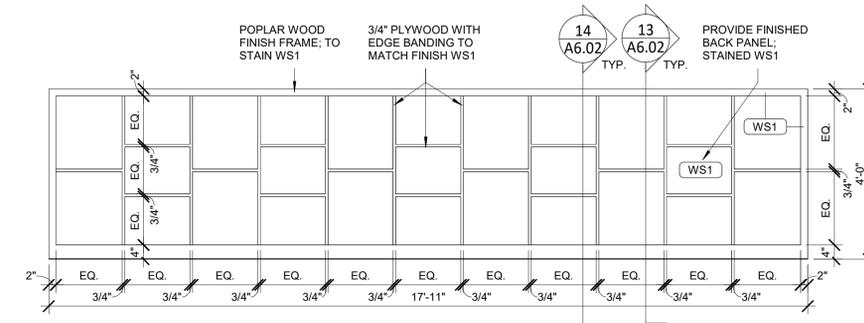
10 ELEVATION DETAIL - STACKED WOOD SHELVING  
1/2" = 1'-0"



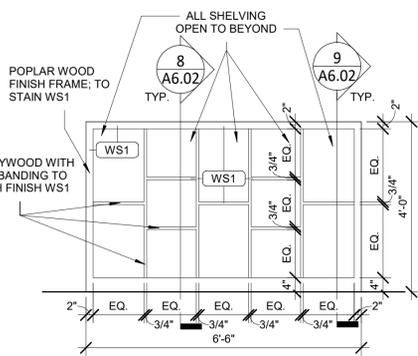
9 CASEWORK DETAIL - STACKED WOOD SHELVING TYPICAL  
3/4" = 1'-0"



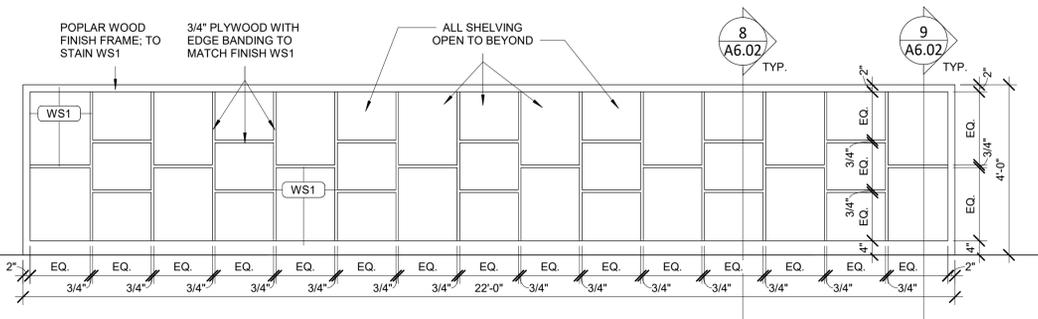
8 CASEWORK DETAIL - STACKED WOOD SHELVING TYPICAL  
3/4" = 1'-0"



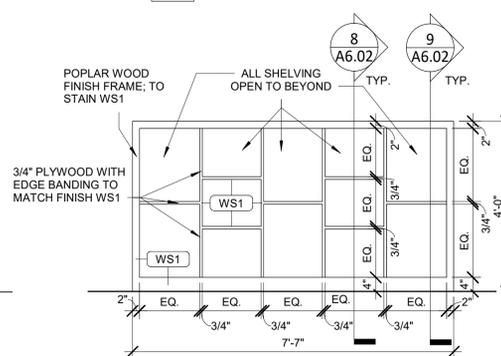
7 ELEVATION DETAIL - STACKED WOOD SHELVING  
1/2" = 1'-0"



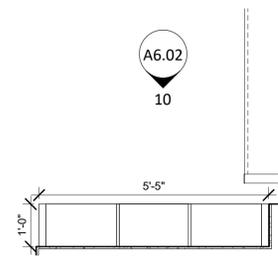
6 ELEVATION DETAIL - STACKED WOOD SHELVING  
1/2" = 1'-0"



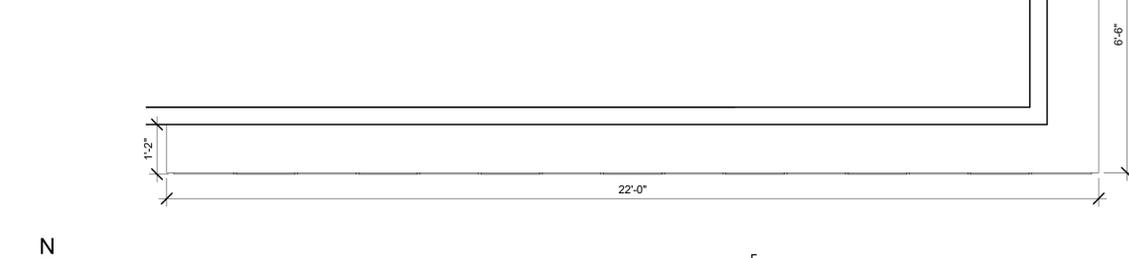
5 ELEVATION DETAIL - STACKED WOOD SHELVING  
1/2" = 1'-0"



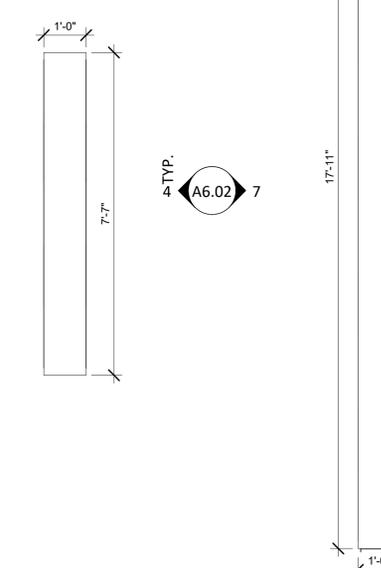
4 ELEVATION DETAIL - STACKED WOOD SHELVING  
1/2" = 1'-0"



3 ENLARGED PLAN - STACKED WOOD SHELVING  
1/2" = 1'-0"



2 ENLARGED PLAN - STACKED WOOD SHELVING  
1/2" = 1'-0"



1 ENLARGED PLAN - STACKED WOOD SHELVING  
1/2" = 1'-0"



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NO.	DATE	DESCRIPTION
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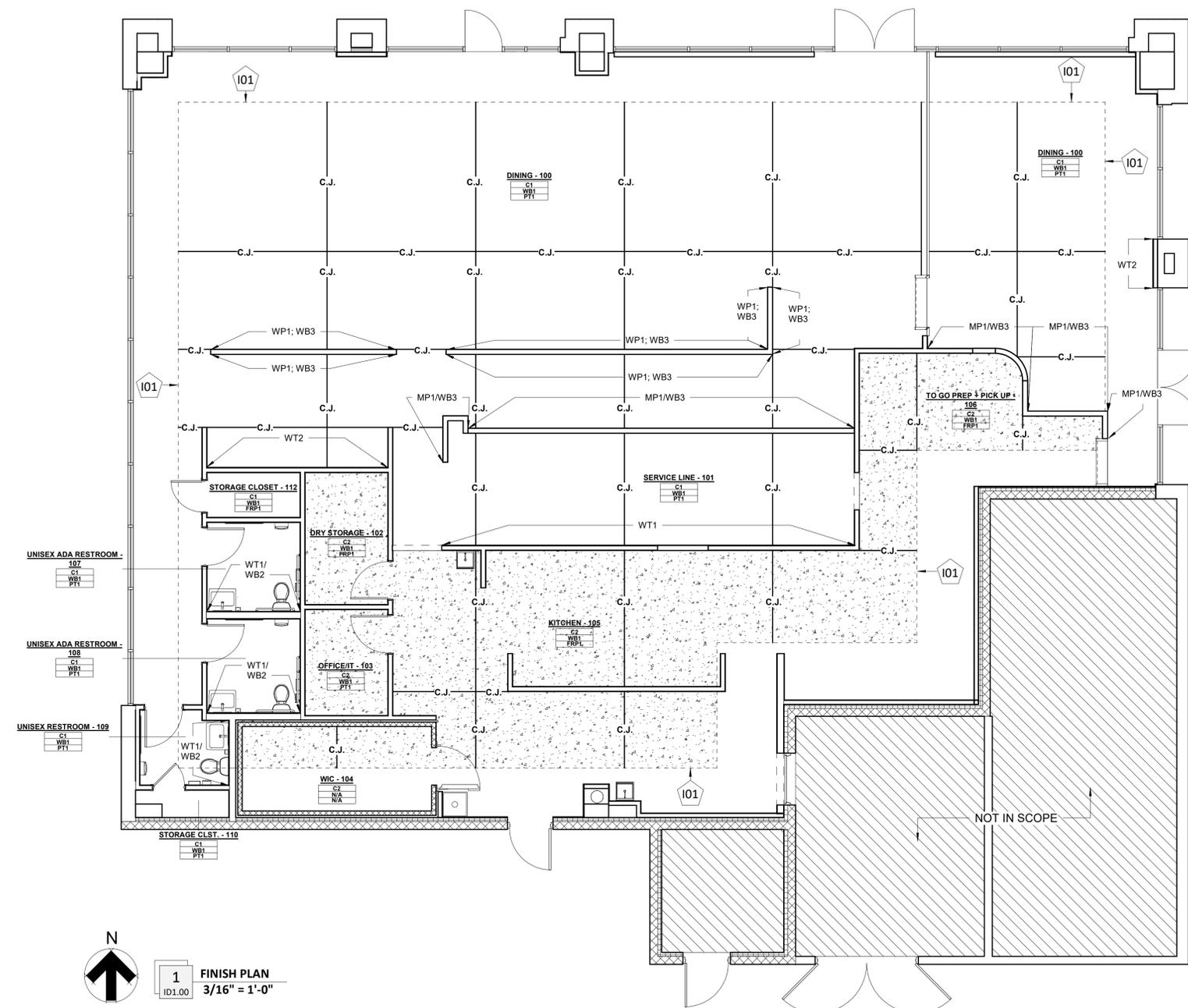
Drawing Size: 24 x 36  
Project #: 24136  
Drawn By: HG  
Checked By: KB

Title:  
CASEWORK DETAILS

Sheet Number:  
A6.02

ISSUE DATE: 04/11/2025

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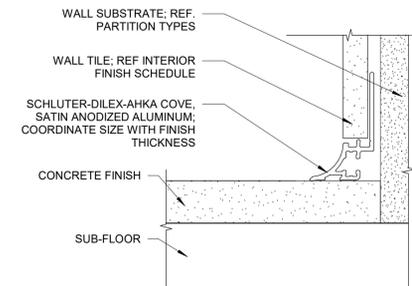
**1**  
ID1.00 **FINISH PLAN**  
3/16" = 1'-0"

**GENERAL NOTES**

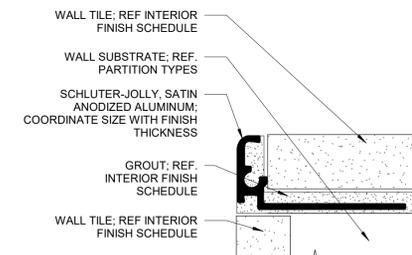
1. CONCRETE CONTROL JOINTS
  - A. PROVIDE CONTROL JOINTS IN ALL INTERIOR CONCRETE SLABS-ON-GRADE TO MINIMIZE RANDOM CRACKING FROM SHRINKAGE AND MOVEMENT. SPACE JOINTS NO MORE THAN 12 FEET APART AND MAINTAIN SLAB PANEL PROPORTIONS CLOSE TO SQUARE (MAXIMUM LENGTH-TO-WIDTH RATIO OF 1.5:1). SAW CUT JOINTS TO A DEPTH OF AT LEAST 1/4 THE SLAB THICKNESS WITHIN 6-12 HOURS AFTER FINISHING; COORDINATE LAYOUT WITH ARCHITECTURAL FEATURES AND SUBMIT FOR REVIEW PRIOR TO PLACEMENT.

**KEYNOTE**

- I01 DASH LINE INDICATES EXISTING CONCRETE FLOOR; FIELD VERIFY EXTENTS.



**2**  
ID1.00 **FLOORING TRANSITION - TYP. WALL TILE TO FLOOR COVE BASE**  
12" = 1'-0"



**3**  
ID1.00 **TYP. WALL TILE TO WALL TILE**  
12" = 1'-0"

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NO.	DATE	DESCRIPTION

Drawing Size: 24 x 36  
Project #: 24136  
Drawn By: HLG  
Checked By: KB

Title:  
FINISH PLAN

Sheet Number:  
**ID1.00**

ISSUE DATE: 04/11/2025

## MATERIALS FINISH LEGEND

MARK	MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE	REMARKS	CONTACT
<b>COUNTERTOP</b>							
CT1	COUNTERTOP	CORIAN	QUARTZ	TAHITIAN SAND	2CM		HOLLIE BAYLES 952.944.1676
CT2	COUNTERTOP	CORIAN	QUARTZ	DOVE GREY	2CM		HOLLIE BAYLES 952.944.1676
CT3	COUNTERTOP	STAINLESS SUPPLY	CUSTOM	STAINLESS STEEL	CUSTOM	LOCATION: TO GO/PICK UP COUNTER	
<b>FLOORING</b>							
C1	SEALED CONCRETE	CLASS C: MEDIUM EXPOSED AGGREGATE	LEVEL 3 POLISHED CONCRETE; CLASS C: MEDIUM EXPOSED AGGREGATE			FINISHED WITH EP1 COATING	
C2	SEALED CONCRETE		TROWEL/FLOAT FINISH			FINISHED WITH EP1 COATING	
EP1	EPOXY ANTI-SLIP SEALANT	SLIP-DOCTOR	STONE GRIP CLEAR			INSTALLED ON ALL CONCRETE SURFACES AT INTERIOR OF BUILDING	
<b>GROUT</b>							
GR1	GROUT	LATICRETE		89 SMOKE GREY	1/8"	COORDINATE APPLICATION WITH WT1 AND WT2	GYWN NOLAND 214.537.8973
GR2	GROUT	LATICRETE		22 MIDNIGHT BLACK	1/8"	COORDINATE APPLICATION WITH WT3	GYWN NOLAND 214.537.8973
<b>PAINT</b>							
PT1	INTERIOR WALL PAINT	BENJAMIN MOORE	EGGSHELL	OC-130 CLOUD WHITE			BRANDY BECERRA 405.219.9225
PT2	INTERIOR WALL PAINT	BENJAMIN MOORE	EGGSHELL	2135-10 BLACKTOP			BRANDY BECERRA 405.219.9225
<b>PLASTIC LAMINATE</b>							
PL1	PLASTIC LAMINATE	FORMICA	FENIX	GRIGIO ARAGONA			KATE DUNNAVANT 501.258.5347
<b>TILE</b>							
WT1	WALL TILE	TILE BAR	CHANCE	WHITE	2"X10"	LOCATION: WALL TILE	LISA PERKOWSKI 512.422.1364
WT2	WALL TILE	TILE BAR	VECTOR REVERB	HUESO	4"X8"	LOCATION: WALL TILE	LISA PERKOWSKI 512.422.1364
WT3	WALL TILE	TILE BAR	PRINTS	ANTRACITE	24"X48"	LOCATION: RESTROOMS	LISA PERKOWSKI 512.422.1364
WT4	WALL TILE TRIM	SCHLUTER	JOLLY-AE	SATIN ANODIZED ALUMINUM (AE)	COORDINATE SIZE WITH FINISH THICKNESS	REF. INTERIOR ELEVATIONS	GYWN NOLAND 214.537.8973
<b>WALL</b>							
FRP1	FIBERGLASS REINFORCED PLASTIC PANEL	MARLITE	SMOOTH S 100G; CLASS A	WHITE	4'X10'		
CG1	CORNER GUARD	MARLITE		ANODIZED ALUMINUM			
MP1	METAL PANEL		CORRUGATED			TO BE OWNER SELECTED; CFCI	
WC1	WALL COVERING	NATIONAL	CUSTOM	CUSTOM	CUSTOM	TO BE OWNER SELECTED; CFCI	LINKO 501.271.2133
WP1	BEAD BOARD WALL PANEL			PAINT PT1		LOCATION: BUILT-IN BOOTHS	
<b>WALL BASE</b>							
WB1	VINYL WALL BASE	JOHNSONITE	MILLWORK MANDALAY	40 BLACK	4.5"		GYWN NOLAND 214.537.8973
WB2	TILE BASE	SCHLUTER	DILEX-AHKA	SATIN ANODIZED ALUMINUM (AE)	COORDINATE SIZE WITH FINISH THICKNESS		GYWN NOLAND 214.537.8973
WB3	WOOD TRIM WALL BASE		POPLAR; STAINED	STAIN WS1	4"	LOCATION: DINING - 100; REF. FINISH PLAN	
<b>WOOD STAIN</b>							
WS1	INTERIOR WOOD STAIN	OLD MASTERS		DARK WALNUT		FINISH WITH MINIMUM 2 COATS OF POLY-URETHANE AS REQUIRED	BRANDY BECERRA 405.219.9225



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**Architect Name** - RYAN M. FAUST  
**Architect Number** - 4711

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**REVISIONS**

NO.	DATE	DESCRIPTION

<b>Drawing Size:</b> 24 x 36	<b>Project #:</b> 24136
<b>Drawn By:</b> HG	<b>Checked By:</b> KB

**Title:**  
MATERIAL FINISH  
LEGEND

**Sheet Number:**  
**ID1.01**

**ISSUE DATE:** 04/11/2025

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**CLIENT NAME**  
WRIGHT'S BBQ - JORDAN WRIGHT  
1410 SE 8TH STREET#14  
BENTONVILLE, AR 72712

**WRIGHT'S BBQ WALMART  
CAMPUS INFILL**  
1410 SE 8TH STREET STE#14  
BENTONVILLE, AR 72712



04/11/2025  
**Engineer Name** - ANDREW D FINNEGAN  
**Engineer Number** - 15650

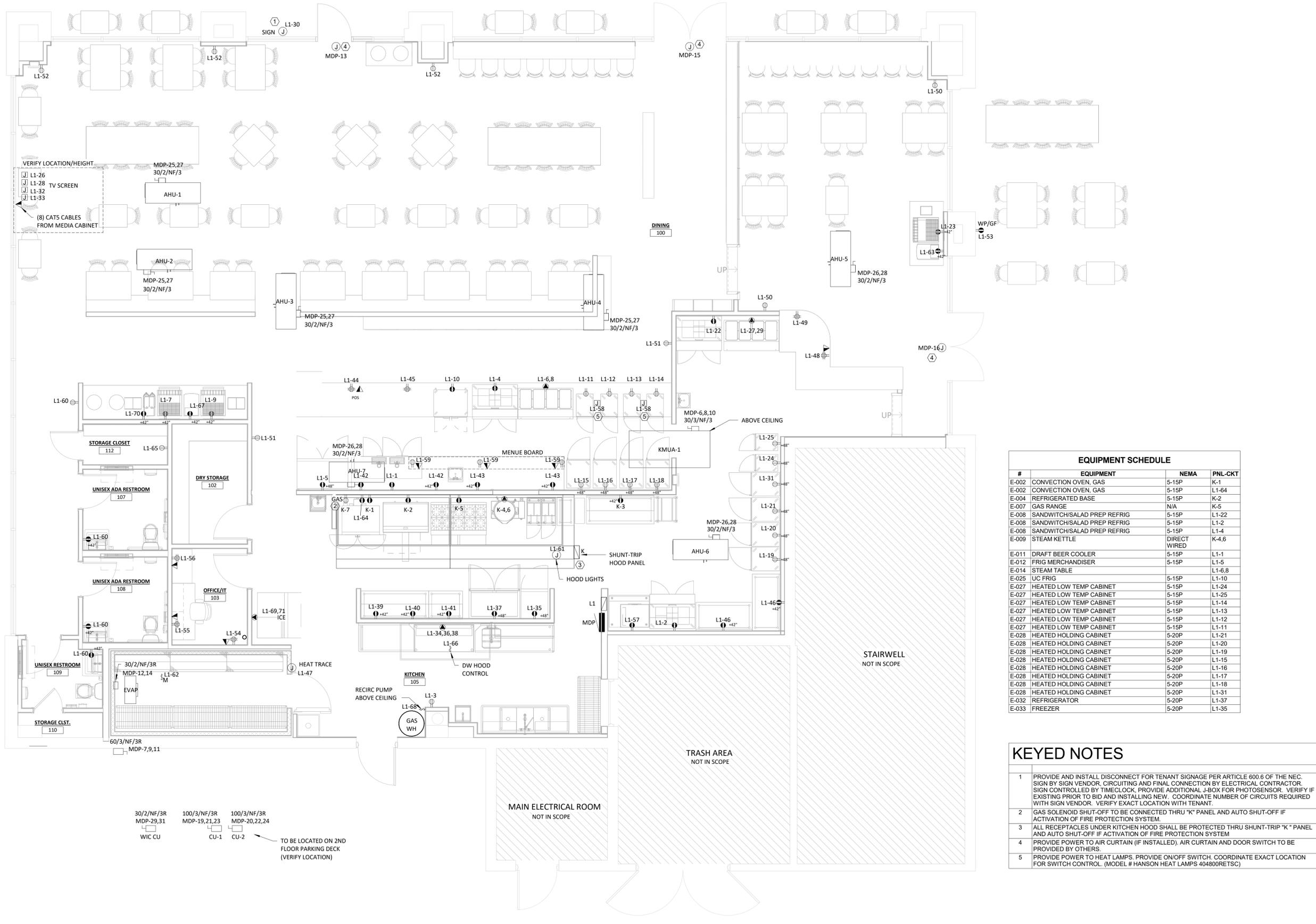
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**REVISIONS**

NO.	DATE	DESCRIPTION

Drawing Size: 24 x 36  
Project #: 24136  
Drawn By: ADF  
Checked By: ADF  
Title: POWER PLANS

Sheet Number:  
**E1.0**  
Date: 04/11/2025



#	EQUIPMENT	NEMA	PNL-CKT
E-002	CONVECTION OVEN, GAS	5-15P	K-1
E-002	CONVECTION OVEN, GAS	5-15P	L1-64
E-004	REFRIGERATED BASE	5-15P	K-2
E-007	GAS RANGE	N/A	K-5
E-008	SANDWICH/SALAD PREP REFRIG	5-15P	L1-22
E-008	SANDWICH/SALAD PREP REFRIG	5-15P	L1-2
E-008	SANDWICH/SALAD PREP REFRIG	5-15P	L1-4
E-009	STEAM KETTLE	DIRECT WIRED	K-4,6
E-011	DRAFT BEER COOLER	5-15P	L1-1
E-012	FRIG MERCHANDISER	5-15P	L1-5
E-014	STEAM TABLE	5-15P	L1-6,8
E-025	UC FRIG	5-15P	L1-10
E-027	HEATED LOW TEMP CABINET	5-15P	L1-24
E-027	HEATED LOW TEMP CABINET	5-15P	L1-25
E-027	HEATED LOW TEMP CABINET	5-15P	L1-14
E-027	HEATED LOW TEMP CABINET	5-15P	L1-13
E-027	HEATED LOW TEMP CABINET	5-15P	L1-12
E-027	HEATED LOW TEMP CABINET	5-15P	L1-11
E-028	HEATED HOLDING CABINET	5-20P	L1-21
E-028	HEATED HOLDING CABINET	5-20P	L1-20
E-028	HEATED HOLDING CABINET	5-20P	L1-19
E-028	HEATED HOLDING CABINET	5-20P	L1-15
E-028	HEATED HOLDING CABINET	5-20P	L1-16
E-028	HEATED HOLDING CABINET	5-20P	L1-17
E-028	HEATED HOLDING CABINET	5-20P	L1-18
E-028	HEATED HOLDING CABINET	5-20P	L1-31
E-032	REFRIGERATOR	5-20P	L1-37
E-033	FREEZER	5-20P	L1-35

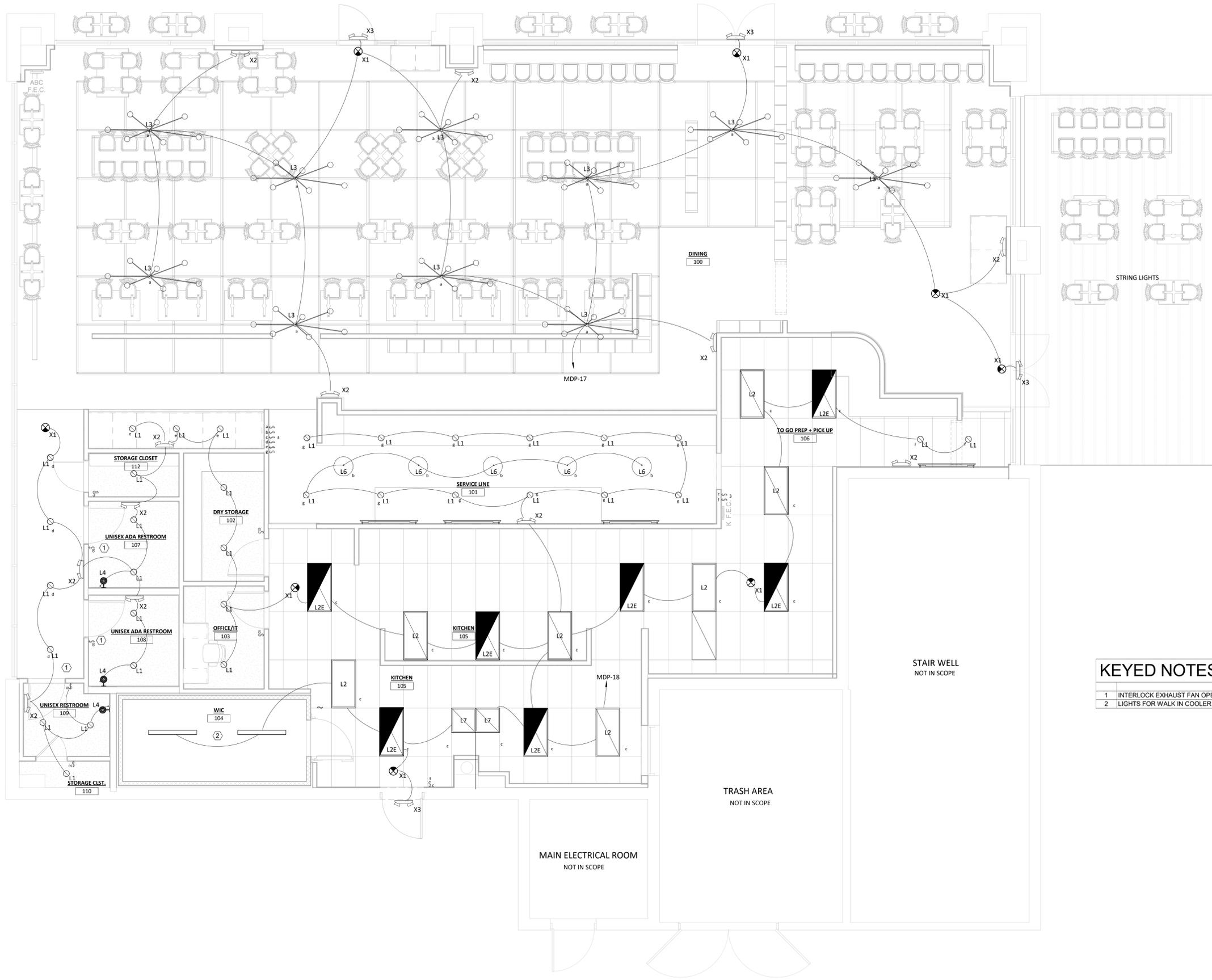
- KEYED NOTES**
- PROVIDE AND INSTALL DISCONNECT FOR TENANT SIGNAGE PER ARTICLE 600.6 OF THE NEC. SIGN BY SIGN VENDOR. CIRCUITING AND FINAL CONNECTION BY ELECTRICAL CONTRACTOR. SIGN CONTROLLED BY TIMELOCK. PROVIDE ADDITIONAL J-BOX FOR PHOTOSENSOR. VERIFY IF EXISTING PRIOR TO BID AND INSTALLING NEW. COORDINATE NUMBER OF CIRCUITS REQUIRED WITH SIGN VENDOR. VERIFY EXACT LOCATION WITH TENANT.
  - GAS SOLENOID SHUT-OFF TO BE CONNECTED THRU "K" PANEL AND AUTO SHUT-OFF IF ACTIVATION OF FIRE PROTECTION SYSTEM.
  - ALL RECEPTACLES UNDER KITCHEN HOOD SHALL BE PROTECTED THRU SHUNT-TRIP "K" PANEL AND AUTO SHUT-OFF IF ACTIVATION OF FIRE PROTECTION SYSTEM.
  - PROVIDE POWER TO AIR CURTAIN (IF INSTALLED). AIR CURTAIN AND DOOR SWITCH TO BE PROVIDED BY OTHERS.
  - PROVIDE POWER TO HEAT LAMPS. PROVIDE ON/OFF SWITCH. COORDINATE EXACT LOCATION FOR SWITCH CONTROL. (MODEL # HANSON HEAT LAMPS 404800RETS)

**1**  
E1.0  
**POWER PLAN**  
1/4" = 1'-0"

30/2/NF/3R MDP-29,31 WIC CU  
100/3/NF/3R MDP-19,21,23 CU-1  
100/3/NF/3R MDP-20,22,24 CU-2  
TO BE LOCATED ON 2ND FLOOR PARKING DECK (VERIFY LOCATION)

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**1 LIGHTING PLAN**  
 E2.0 1/4" = 1'-0"

**KEYED NOTES**

1	INTERLOCK EXHAUST FAN OPERATION WITH LIGHTING OPERATION IN RESTROOM.
2	LIGHTS FOR WALK IN COOLER PROVIDED BY SUPPLIER AND INSTALLED BY E.C.

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04/11/2025  
**Engineer Name** - ANDREW D FINNEGAN  
**Engineer Number** - 15650  
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NO.	DATE	DESCRIPTION
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Drawing Size: 24 x 36  
 Project #: 24136  
 Drawn By: ADF  
 Checked By: ADF  
 Title: LIGHTING PLANS

Sheet Number:  
**E2.0**

Date: 04/11/2025

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LIGHTING FIXTURE SCHEDULE						
TYPE	Manufacturer	Model	VA	VOLTS	Description	Count
L1	COOPER LIGHTING	HC420D010 HM412835 41MDCD	22 VA		4" LED ROUND DOWNLIGHT	33
L2	COOPER LIGHTING	24CZSB-SCT3-UNV	38 VA		LED 2' X 4' TROFFER; 4000K	7
L2E	COOPER LIGHTING	24CZSB-SCT3-UNV-EL7W	38 VA		LED 2' X 4' TROFFER; 4000K; EMERGENCY BATTERY	7
L3	CDS LIGHTING	HANG PENDANT	12 VA		7 BULB PENDANT	10
L4	CDS LIGHTING	JULIUS-B-1-USV	12 VA		VANITY WALL SCNCE	3
L6	TBD	TBD	12 VA			5
L7	COOPER LIGHTING	22CZSB-SCT3-UNV	31 VA		LED 2' X 2' TROFFER; 4000K	2
X1	SLG	EXTEU-2-R-W-EM	0 VA		RED EXIT SIGN WITH TWIN ADJUSTABLE LED LAMPS; 90-MINUTE BATTERY; REMOTE CAPACITY INTERNAL BATTERY FOR POWERING CORD ABOVE	8
X2	COOPER	APWR2	36 VA		REMOTE DUAL LED HEAD EXTERIOR EMERGENCY LIGHT. POWERED FROM XR	12
X3	COOPER	APWR2	36 VA		REMOTE DUAL LED HEAD EXTERIOR EMERGENCY LIGHT. POWERED FROM XR	4

### GENERAL NOTES:

- WHERE STATED ELECTRICAL CONTRACTOR IS TO PROVIDE MATERIAL, IT IS TO BE KNOWN THAT PROVIDE MEANS TO FURNISH AND INSTALL.
- PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE ALL EXISTING CONDITIONS AND THE EXTENT OF WORK TO BE DONE.
- CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN THE STATE IN WHICH THIS PROJECT WILL BE COMPLETED. CONTRACTOR SHALL MAINTAIN A COPY OF THEIR LICENSE AGREEMENT WITH THEM TO SHOW TO INSPECTORS WHERE REQUIRED BY LOCAL CODES.
- CONTACT UTILITY COMPANY PRIOR TO BID AND INCLUDE ALL FEES REQUIRED FOR CONNECTION OF THE UTILITIES.
- PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING TO JOB SITE, AS REQUIRED.
- PROVIDE A GROUNDING CONDUCTOR IN ALL RACEWAYS, SIZED PER NATIONAL ELECTRICAL CODE.
- ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
- ALL WIRING DEVICES SHALL BE INSTALLED PLUMB, SQUARE, AND TRUE. ALL DEVICES INSTALLED AT A SINGLE LOCATION SHALL BE ALIGNED.
- ALL WIRING DEVICES TO BE MOUNTED AS LISTED BELOW (TO CENTER OF DEVICE) UNLESS NOTED OTHERWISE ON DRAWINGS:  
+18" AFF RECEPTACLE  
+18" AFF DATA OUTLET  
+46" AFF SWITCH  
ADJUST TO COORDINATE WITH MASONRY IF REQUIRED. REFER TO ARCHITECTURAL DRAWINGS BEFORE STARTING WORK.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING ALL SWITCHES, RECEPTACLES, AND FIXED EQUIPMENT WITH THE BRANCH CIRCUIT PANEL NAME AND NUMBER SERVING EACH DEVICE.
- ALL DEVICE PLATES, OUTLET COVERS, ETC., FINISH/COLOR AS SPECIFIED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
- PROVIDE UNSWITCHED POWER TO ALL EXIT LIGHTS AND BATTERY CHARGING CIRCUIT OF EMERGENCY LIGHT FIXTURES.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR LIGHT FIXTURE MOUNTING HEIGHTS AND CEILING TYPES.
- EXISTING ELECTRICAL EQUIPMENT LAYOUT (LIGHT FIXTURES, RECEPTACLES AND DATA OUTLETS, ETC) ARE BASED ON AS-BUILT DRAWINGS AND/OR FIELD OBSERVATIONS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS IN FIELD.
- MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE SPECIFIED.
- ALL CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH DUCTWORK AND PIPING. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION WITH ALL OTHER TRADES.
- ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR CEILING. NO CONDUITS SHALL BE SURFACE MOUNTED, UNLESS SPECIFIED.
- WHERE CONDUIT IS SURFACE MOUNTED IN EXPOSED LOCATIONS, CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, GROUPED WHERE PRACTICAL, AND PAINTED TO MATCH SURROUNDING FINISHES. COORDINATE CONDUIT ROUTING AND ALL PENETRATIONS THROUGH FINISHED SURFACES WITH ALL OTHER DISCIPLINES AS REQUIRED.
- PROVIDE FIRESTOP AT ALL PENETRATIONS IN FIRE ENVELOPES. ALL DATA CABLES THROUGH FIREWALLS AND OUT OF IT ROOMS TO BE INSTALLED IN A STI FIRESTOP WIREWAY.
- COORDINATE ALL INTERLOCK WIRING REQUIREMENTS WITH HVAC CONTRACTOR. PROVIDE BACK BOXES AT ALL THERMOSTAT AND CO2 LOCATIONS WITH 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING.

### ABBREVIATIONS

AM	ABOVE MILLWORK
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISH FLOOR
CU	COPPER
CLG	CEILING
CLO	CLOSET
DDC	DIRECT DIGITAL CONTROL
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTION
GR	GROUND
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IG	ISOLATED GROUND
HD	HAND DRYER
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NF	NON-FUSIBLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NS	NON-SWITCHED
PC	PLUMBING CONTRACTOR
PNL/PNLBD	PANELBOARD
REC	RECEPTACLE
REF	REFER TO/REFERENCE
RH	RADIANT HEATER
RTU	ROOFTOP UNIT
SC	SECURITY CAMERA
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE
WH	WATER HEATER
WP	WEATHERPROOF RECEPTACLE COVER
WR	WEATHER RESISTANT RECEPTACLE
XFMR	TRANSFORMER

### ELECTRICAL SYMBOLS

(NOTE: ALL SYMBOLS MAY NOT BE USED)

(A)	LIGHTING FIXTURE
A=	FIXTURE TYPE a=SWITCH DESIGNATION
(A) a	LIGHTING FIXTURE ON EMERGENCY POWER (PART OR ALL)
(A)	DOWN LIGHT/PENDANT LIGHTING FIXTURE
(A) a	DOWN LIGHT/PENDANT LIGHTING FIXTURE ON EMERGENCY POWER
(A)	SCNCE/WALL PACK LIGHTING FIXTURE
(A) a	SCNCE/WALL PACK LIGHTING FIXTURE ON EMERGENCY POWER
(A) a	TRACK LIGHTING FIXTURE
(A) a	SITE LIGHTING POLE (1,2,3,4 HEADS AS INDICATED ON PLANS)
(A) a	CEILING FAN (A=WITH LIGHT FIXTURE)
(A) a	EXIT SIGN (SINGLE FACE, DOUBLE FACE) (ARROW DENOTES DIRECTION)
(A) a	EXIT SIGN WITH INTEGRAL EMERGENCY LIGHT
(A) a	BATTERY POWERED EMERGENCY LIGHT
(A) a	SINGLE POLE SWITCH
(A) a	SINGLE POLE SWITCH - (a) MULTILEVEL SWITCHING DESIGNATION
(A) a	TWO POLE SWITCH
(A) a	3-WAY SWITCH
(A) a	4-WAY SWITCH
(A) a	INTERCOM CALL SWITCH
(A) a	DIMMER SWITCH
(A) a	KEY-OPERATED SWITCH
(A) a	LOW VOLTAGE SWITCH
(A) a	MANUAL MOTOR STARTER
(A) a	MOMENTARY CONTACT SWITCH
(A) a	OCCUPANCY SENSOR SWITCH
(A) a	SWITCH W/ PILOT LAMP
(A) a	RAISE-LOWER SWITCH
(A) a	VOLUME CONTROL SWITCH
(A) a	VACANCY SENSOR SWITCH
(A) a	TIMER SWITCH
(A) a	DIGITAL CONTROL SWITCH - (#B) # OF BUTTONS
(A) a	OCCUPANCY SENSOR (C-CEILING, W-WALL MOUNT)
(A) a	SIMPLEX RECEPTACLE
(A) a	DUPLEX RECEPTACLE
(A) a	QUADRA-PLEX RECEPTACLE
(A) a	CEILING MOUNTED RECEPTACLE
(A) a	SPECIAL RECEPTACLE
(A) a	FLOOR BOX - RECEPTACLE/DATA/TELEPHONE
(A) a	TELEPHONE OUTLET
(A) a	DATA OUTLET
(A) a	COMBINATION DATA OUTLET (TELEPHONE, COMPUTER, ETC.)
(A) a	WIRELESS ACCESS POINT (CABLE ONLY)
(A) a	SPEAKER
(A) a	CABLE TV OUTLET (CABLE ONLY)
(A) a	MICROPHONE OUTLET
(A) a	SECURITY/ TV CAMERA
(A) a	EXIT REQUEST
(A) a	CARD READER
(A) a	DOOR HOLDER
(A) a	MAGNETIC LOCKS
(A) a	CHIME
(A) a	DOOR BELL
(A) a	BUZZER
(A) a	PUSHBUTTON
(A) a	ADA DOOR ACTUATOR PUSHBUTTON
(A) a	DOOR SWITCH
(A) a	PUSH BUTTON - UP/DOWN/STOP
(A) a	UTILITY POWER POLE
(A) a	JUNCTION BOX
(A) a	SERVICE POLE
(A) a	MOTOR CONNECTION (NO. DENOTES HP)
(A) a	DISCONNECT SWITCH (DESIGNATION, SEE SWITCH SCHEDULE)
(A) a	CONTACTOR
(A) a	MOTOR STARTER
(A) a	COMBINATION STARTER-DISCONNECT
(A) a	TRANSFORMER
(A) a	METER
(A) a	CLOCK OUTLET 6" BELOW CEILING
(A) a	PHOTO ELECTRIC CONTROL SENSOR
(A) a	TIME CLOCK CONTROLLER
(A) a	PANELBOARDS
(A) a	DISTRIBUTION BOARD
(A) a	MULTI-USE PANEL
(A) a	INTERCOM MASTER
(A) a	INTERCOM
(A) a	SMOKE DETECTOR
(A) a	FIRE ALARM CONTROL PANEL
(A) a	REMOTE FIRE ALARM PANEL
(A) a	WEATHERHEAD
(A) a	SURFACE PLUGMOLD STRIP
(A) a	ELECTRICAL GROUND
(A) a	GFCI BREAKER



702 SE 5TH ST STE 50  
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TEL: 479.579.9959

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Engineer Number - 15650

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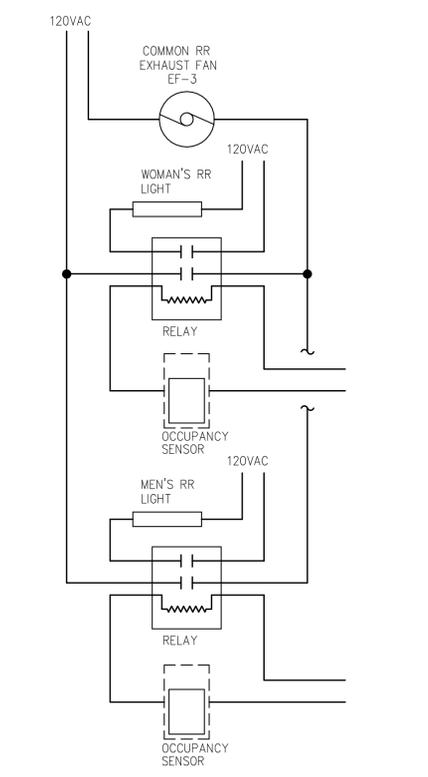
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Drawing Size: 24 x 36	Project #: 24136
Drawn By: ADF	Checked By: ADF

Title:  
ELECTRICAL NOTES,  
DETAILS, AND  
SCHEDULES

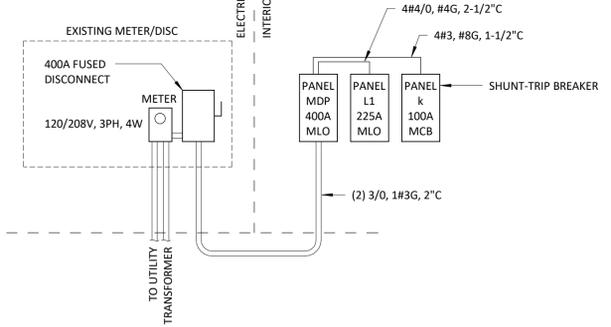
Sheet Number:  
E3.0

Date: 04/11/2025



2 E3.0 RESTROOM EXHAUST FAN CONTROL DETAIL  
N.T.S.

THIS TENANT WILL REQUIRE SUB-METERING:  
ELECTRICAL CONTRACTOR TO COORDINATE WITH  
LANE JORDAN @ CANNON METERING, INC.  
FOR OWNER PROVIDED ELECTRIC METERING  
INSTALLATION DETAILS.  
(479) 979-7570  
LANE@CANNONMETERING.COM



1 E3.0 ELECTRICAL RISER DIAGRAM  
N.T.S.

NEW PANELBOARD												225 A	MLO
LOCATION: KITCHEN 105												3 PH 4 WIRES 120/208V	
MOUNTING: SURFACE, 20" WIDE												SERIES RATED/10,000 AIC	
												GROUND BAR	
CK	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CK	
1	DRAFT BEER COOLER	20 A	1	0.37	0.24			1	20 A		SANDWITCH/SALAD PREP REFRIG	2	
3	WH	20 A	1		0.18	0.24		1	20 A		SANDWITCH/SALAD PREP REFRIG	4	
5	FRIG MERCHANDISER	20 A	1				0.50	1.50	2	30 A		6	
7	SODA DISP	20 A	1	0.90	1.50						STEAM TABLE	8	
9	SODA DISP	20 A	1		0.90	0.24			1	20 A	UC FRIG	10	
11	HEATED LOW TEMP CABINET	20 A	1				1.01	1.01	1	20 A	HEATED LOW TEMP CABINET	12	
13	HEATED LOW TEMP CABINET	20 A	1	1.01	1.01				1	20 A	HEATED LOW TEMP CABINET	14	
15	HEATED HOLDING CABINET	20 A	1		1.92	1.92			1	20 A	HEATED HOLDING CABINET	16	
17	HEATED HOLDING CABINET	20 A	1				1.92	1.92	1	20 A	HEATED HOLDING CABINET	18	
19	HEATED HOLDING CABINET	20 A	1	1.92	1.92				1	20 A	HEATED HOLDING CABINET	20	
21	HEATED HOLDING CABINET	20 A	1		1.92	0.24			1	20 A	SANDWITCH/SALAD PREP REFRIG	22	
23	SODA DISP	20 A	1				0.90	1.01	1	20 A	HEATED LOW TEMP CABINET	24	
25	HEATED LOW TEMP CABINET	20 A	1	1.01	1.20				1	20 A	TV SCREEN	26	
27	STEAM TABLE	30 A	2		1.50	1.20			1	20 A	TV SCREEN	28	
29		--	--	--			1.50	1.20	1	20 A	BUILDING SIGN	30	
31	HEATED HOLDING CABINET	20 A	1	1.92	1.20				1	20 A	TV SCREEN	32	
33	TV SCREEN	20 A	1		1.20	5.85			3	60 A	DISH WASHER	34	
35	FREEZER	20 A	1				1.03	5.85	--	--	--	36	
37	REFRIGERATOR	20 A	1	0.48	5.85				--	--	--	38	
39	CONV RECPT	20 A	1		0.18	0.18			1	20 A	CONV RECPT	40	
41	CONV RECPT	20 A	1				0.18	0.36	1	20 A	CONV RECPT	42	
43	CONV RECPT	20 A	1	0.36	0.36				1	20 A	POS	44	
45	CONV RECPT	20 A	1		0.36	0.36			1	20 A	CONV RECPT	46	
47	HEAT TRACE	20 A	1				1.20	0.36	1	20 A	POS	48	
49	CONV RECPT	20 A	1	0.18	0.36				1	20 A	CONV RECPT	50	
51	CONV RECPT	20 A	1		0.36	0.54			1	20 A	CONV RECPT	52	
53	PATIO RECPT	20 A	1				0.18	0.36	1	20 A	OFFICE RECPT	54	
55	OFFICE RECPT	20 A	1	0.36	0.36				1	20 A	OFFICE RECPT	56	
57	ICE MAKER	20 A	1		1.20	1.20			1	20 A	HEAT LAMP	58	
59	MENUE BOARD RECPT	20 A	1				0.54	0.72	1	20 A	RESTROOM RECPT	60	
61	HOOD LTS	20 A	1	0.20	0.12				1	15 A	WIC FAN	62	
63	NUGGET ICE MAKER	20 A	1		1.36	0.92			1	20 A	CONVECTION OVEN, GAS	64	
65	FOUNTAIN LINES/CO2 PUMP	20 A	1				0.18	0.86	1	20 A	DW HOOD	66	
67	ICE MAKER	20 A	1	1.32	0.70				1	20 A	RECIRC PUMP	68	
69	ICE MAKER	20 A	2		1.25	1.20			1	20 A	TEA BREWER	70	
71	--	--	--	--			1.25					72	
73												74	
75												76	
77												78	
79												80	
81												82	
83												84	
<b>TOTAL:</b>					24.85 kVA	26.42 kVA	25.54 kVA						
					207.05 A	221.08 A	213.74 A						
<b>TOTAL LOAD:</b>					76.81 kVA		213.20 A						
<b>FEEDER LOAD:</b>					53.55 kVA		148.63 A						

NEW PANELBOARD												100 A	MCB
LOCATION: KITCHEN 105												1 PH 3 WIRES 120/208V	
MOUNTING: SURFACE, 20" WIDE												SERIES RATED/10,000 AIC	
												GROUND BAR	
CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A	PHASE B	PL	BRKR	WIRE	LOAD SERVED	CK		
1	CONVECTION OVEN, GAS	20 A	1	0.92	0.28			1	20 A		REFRIGERATED BASE	2	
3	RECPT	20 A	1		0.18	5.99		2	70 A		STEAM KETTLE	4	
5	GAS RANGE	20 A	1	0.41	5.99			--	--	--	--	6	
7	GAS SOLENOID SHUT-OFF	20 A	1		0.18							8	
9												10	
11												12	
13												14	
15												16	
<b>TOTAL:</b>					7.60 kVA	6.35 kVA							
					71.46 A	61.06 A							
<b>TOTAL LOAD:</b>					13.95 kVA		67.0...						
<b>FEEDER LOAD:</b>					12.96 kVA		62.3 A						

MDP												400 A	MCB	
LOCATION: KITCHEN 105												3 PH 4 WIRES		
MOUNTING: Surface												GROUND BAR		
CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A	PHASE B	PHASE C	PL	BRKR	WIRE	LOAD SERVED	CK		
1	L1	--	--	--	225 A	3	24.85	7.60			2	100 A	K	2
3	--	--	--	--			26.42	6.35			--	--	--	4
5	--	--	--	--					25.54	1.07	3	15 A	KMUA-1	6
7	PCU-1	--	--	--	35 A	3	2.90	1.07			--	--	--	8
9	--	--	--	--			2.90	1.07			--	--	--	10
11	--	--	--	--				2.90	0.62	2	15 A	WIC	12	
13	AIR CURTAIN	20 A	1	1.56	0.62						--	--	--	14
15	AIR CURTAIN	20 A	1		1.56	1.56					1	20 A	AIR CURTAIN	16
17	FRONT LTS	20 A	1				0.12	1.48	1	20 A	BACK LTS	18		
19	CU-1	70 A	3	7.20	7.68					3	80 A	CU-2	20	
21	--	--	--	--			7.20	7.68			--	--	--	22
23	--	--	--	--				7.20	7.68		--	--	--	24
25	AHU 1-4	20 A	2	1.44	1.21				2	20 A	AHU-5-7	26		
27	--	--	--	--			1.44	1.21			--	--	--	28
29	WIC CU	20 A	2					1.56			--	--	--	30
<b>TOTAL:</b>					57.68 kVA	57.39 kVA	48.16 kVA							
					492.51 A	490.05 A	401.36 A							
<b>TOTAL LOAD:</b>					163.23 kVA		453.08 A							
<b>FEEDER LOAD:</b>					133.34 kVA		370.10 A							



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CLIENT NAME

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WRIGHT'S BBQ WALMART  
CAMPUS INFILL  
1410 SE 8TH STREET STE#14  
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04/11/2025

Engineer Name - ANDREW D FINNEGAN

Engineer Number - 15650

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REVISIONS

NO.	DATE	DESCRIPTION
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Drawing Size: 24 x 36  
Project #: 24136

Drawn By: ADF  
Checked By: ADF

Title: PANEL SCHEDULES

Sheet Number:

E3.1

Date: 04/11/2025

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ELECTRICAL SPECIFICATIONS

I. GENERAL PROVISIONS

A. GENERAL CONDITIONS, CODES & STANDARDS

- 1. General conditions of the contract found in the architectural drawings, general and special conditions of the American Institute of Architects (AIA) and any of the owner's general requirements shall apply unless noted otherwise.
2. Refer to the general conditions on the architectural documents and the general and special conditions of the AIA for additional requirements regarding; safety, coordination & cooperation, workmanship, protection, cutting and patching, damage to other work, preliminary operations, storage, adjustments, cleaning, etc.
3. All work shall be in conformance with all locally enforced, federal, state, and local codes and ordinances including any special the owner requirements in addition to those specified.
4. Contractor shall pay for and obtain all necessary licenses, permits and inspections required to proceed with the work. This shall include all required coordination with the local utility companies and their associated fees or costs.

B. SCOPE OF WORK

- 1. This contract shall include the furnishing, installing, connecting, and operation of all equipment which is a part of the electrical systems as shown on the drawings and as required by similar installations. Any material or labor which is neither shown on the drawings nor called for in the specifications, but which is obviously necessary to complete the work and which is usually included in work of a similar character shall be furnished and installed under this contract at no additional cost to the owner.
2. Carefully read specification for all parts of the work to become familiar with all trades' work scope. Consult with other trades to insure proper locations and avoid interferences.
3. Contractors shall be held to have examined the premises and site to compare them with the drawings and specifications, note the existing conditions and other work that will be required, and the nature of the conditions under which the work is to be performed.
4. All existing utility and electrical services shall be field verified.
5. Provide all cutting and patching required for installation of electrical work.
6. Temporary electrical service, lighting, and related wiring shall be provided in accordance with OSHA requirements.
7. Temperature and interlock control components and all related wiring and conduit shall be provided by the mechanical contractor unless otherwise indicated on the drawings.
8. This contract shall also include all labor, materials and miscellaneous expenses required for all required electrical demolition of the existing areas being renovated.
9. The demolition shall consist of the complete removal (properly disposed off-site unless otherwise noted) of all electrical equipment, wiring, conduit, materials, etc.
10. All underground services not being reused shall be capped below the floor, wiring removed, and floor penetrations repaired to match adjacent surfaces.
11. All above ground circuits shall be removed back to the source unless indicated otherwise.
12. Coordinate all demolition with the architectural documents, the architect, and the owner's general requirements.
13. The general contractor shall verify site lighting base details with structural engineer to verify applicability of pole/fixture base with local soil conditions.
14. All work including, but not limited to parts, material, equipment and labor shall be guaranteed for one year after acceptance by the engineer and owner.

C. DOCUMENTS

- 1. The drawings are diagrammatic; all work shall be performed as indicated on the drawings unless existing conditions or coordination issues require changes.
2. Any incidental items or labor, etc. Not included in the specifications or the drawings but reasonably implied as necessary for the complete installation of all apparatus shall be included in bid.
3. The drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished even though not mentioned in both.
4. If errors are found in the drawings or specifications or discrepancies occur between the same, or between the figures on the drawings, and the scale of same or between the larger and smaller drawings, or in the descriptive matter on the drawings shall be referred to the owner for review and final decision prior to the bid due date.
5. The bidding of this work will contemplate the use of equipment and materials exactly as specified herein.
6. Miscellaneous items necessary to complete the systems can be of any recognized manufacture provided these items meet minimum standards as set in these specifications.

D. COORDINATION

- 1. Contractor shall locate, identify and protect any existing services which are required to be maintained operational and shall exercise extra caution in the performance of all work to avoid disturbing such facilities.
2. Each contractor shall be held responsible for all damage to other work caused by his work or through the neglect of his, or his sub-trade's personnel.
3. It is essential that all work at the project be done at such time and in such manner as not to interfere with the operations of the space, adjacent spaces, or facility.

E. METHODS

- 1. Excavations shall be made in open trenches. Floors shall be saw cut. Conduit shall be laid on an appropriately graded 6" bed of clean and dry sand.
2. Equipment, conduit, etc. Shall not be supported from any ceilings, other piping, other conduit or ductwork, roof deck, or joist bridging.
3. All roof penetrations, flashings and counter flashings shall be performed by the owner's roofing contractor at the requesting contractors cost.

F. SUBMITTALS

- 1. Shop drawings shall be provided to the architect of all equipment and accessories provided for the project whether specified here-in or on the drawings.
2. Project record documents - maintain at the jobsite one copy of all contract documents clearly marked as "project record copy".
3. Three complete sets of as-built documentation shall be provided. It shall include, but not be limited to accurate plan drawings, wiring diagrams and operation and maintenance manuals.

PRODUCTS

A. CONDUIT

- 1. Conduit shall be heavy wall rigid galvanized steel where exposed and subject to damage, 8'-0" AFF and below, and in wet locations where indicated on the drawings.
2. Underground conduit shall be schedule 40 PVC and shall be concrete encased (3" minimum) where indicated on the drawings.
3. Interior conduits shall be electrical metallic tubing (EMT).
4. Metal clad (mc) cable may be used if approved by the owner, and installed in locations permitted by code.
5. Flexible metal conduit shall be used from outlet box to individual recessed light fixtures, and for final connections to motors and other devices subject to vibration.

B. CONDUIT FITTINGS AND BOXES

- 1. Interior outlet boxes shall be standard galvanized sheet steel type, not less than 14 gauge in thickness, with knockout openings, extensions, plaster rings and cover plates to accommodate the devices installed.
2. Outlet boxes shall not be less than 4 inches square, 1-1/2 inches deep.
3. Couplings and connectors for EMT shall be die cast zinc or steel. Bushing shall be grounding wire with insulating plastic insert.

C. WIRE AND CABLE

- 1. Conductors for power and lighting shall be new 600-volt, 90°C, type XHHW, THHN, or THWN insulation, minimum size #12-AWG, except for control wiring which may be #14-AWG.
2. Branch circuit runs exceeding 100 feet in total length from the panelboard to the last device, shall be #10-AWG conductors unless otherwise noted.
3. Compression type lugs and connectors shall be used for all terminations and splices.
4. All low voltage communications, fire alarm, data, security, telephone and all other miscellaneous low voltage wiring installed in ceiling shall be installed in conduit, or be plenum rated.

D. WIRING DEVICES

- 1. Duplex receptacles shall be grounding type, NEMA 5-20R, rated for 20 amps, 125 volts, with provisions for back and side wiring.
2. Ground fault circuit interrupter (GFCI) duplex receptacles shall be provided where indicated and where required by the NEC.
3. Switches shall be toggle operated, quiet type, rated for 20 amps, 120/277 volts, with provisions for back and side wiring.
4. Dimmers shall be Lutron "nova t-star" series, of a rating, voltage and wattage suitable for load served.
5. Colors of devices shall be selected by architect.
6. Wiring devices shall be specification grade, as manufactured by Hubbell, Pass & Seymour, Arrow Hart, Leviton and General Electric.

LIGHTING AND RECEPTACLE PANELBOARDS

- 1. Branch circuit panelboards shall be dead front type, with main lugs or main overcurrent device as indicated, branch overcurrent devices as noted and an equipment ground bar, all in a surface or flush mounted sheet steel enclosure.
2. Circuit breakers shall be bolt on type; with molded plastic case; 1, 2, or 3 pole as indicated; quick-make, quick-break; and thermal-magnetic trip device.
3. All breakers feeding HVAC equipment shall be HACR rated, unless otherwise noted.
4. All breakers in residential occupancies shall be arc-fault type, unless otherwise noted.
5. Panelboards shall be as manufactured by Square D, General Electric, Siemens, and Eaton/Cutler Hammer.

F. DISTRIBUTION TRANSFORMERS

- 1. Transformers shall be energy saving type, dry type, 115 degree rise with 2 taps above and 4 taps below normal voltage. Transformers shall be as manufactured by Square D, General Electric, Siemens, Eaton/Cutler Hammer, and Acme.

G. SAFETY SWITCHES AND MOTOR STARTERS

- 1. Safety switches shall be fusible or non-fusible as indicated on the drawings. Switches shall be quick-make, quick-break, heavy duty visible blade type.
2. Magnetic motor starters shall be combination type with thermal overload, integral fused safety switch, h-o-a selector switch, control transformer, running pilot light, nema type 1 enclosure, and (2) normally open and (2) normally closed auxiliary contacts.
3. All motors over 1/8 hp shall be provided with thermal overload protection. Overload protection shall be provided integral with the motor windings and/or motor controller (provided by others) unless otherwise indicated on drawings.

H. LUMINAIRES AND LAMPS

- 1. All luminaires shall be specified on the luminaire schedule.
2. Ballasts shall be instant start, electronic type, class P, "a" sound rating and maximum harmonic content of 10%. Dimming ballasts shall be 3-wire type, with dimming capability to 10% of rated full output.
3. Recessed luminaires with incandescent lamps shall be provided with thermal protection.
4. Fluorescent and LED color temperature shall be as described on plans. Incandescent lamps shall be 130 volt. High intensity discharge lamps shall be coated.
5. Emergency lighting shall provide a minimum of one foot candle along the path of egress. Emergency fixture supplier shall provide foot candle printout to verify emergency light levels.
6. All fixture / ballast / lamp combinations shall be energy saving type.

III. EXECUTION

A. GENERAL MISCELLANEOUS

- 1. All conduit run in finished areas shall be concealed. Conduit smaller than 3/4" shall not be used for any circuit homeruns.
2. Raceways exposed to different temperatures shall be filled with an approved material in accordance with article 300.7 of the national electrical code.
3. Hangers, supports, or fastenings shall be provided at each elbow, at the ends of straight runs terminating at boxes or cabinets, and at intermediate points as required by code.
4. Fixture supports shall be in accordance with article 410-30 of the national electrical code, or any local codes which may apply.
5. Provide permanent nameplates with designations for panelboards, feeder devices, distribution equipment and starters.
6. Provide typewritten directory cards with branch circuit identification for branch circuit panelboards.
7. Panelboards, feeder devices, distribution equipment and starters shall be field marked to warn qualified persons of potential electric arc flash hazards in accordance with NEC 110.16.
8. Install handle guards on all breakers for night lighting, emergency and similar circuits.
9. The electrical contractor shall balance panelboard loading to within 10% on each phase based on installed conditions. Load balancing circuit changes shall be performed outside the normal occupancy working schedule and at a time directed by landlord.
10. All flush mounted panelboards shall have (3) 3/4" empty conduits installed to above accessible ceiling for future use.
11. The final locations of all equipment, outlets, etc. Shall be subject to reasonable changes in location up to the time of roughing-in, at no additional cost to the owner.
12. Contact electric power company and make necessary arrangements for electric service (both temporary and permanent as required).
13. Contact telephone company and make necessary arrangements for telephone service.
14. At all times keep premises and building in a neat and orderly condition, following owner's instruction regarding storing of materials, protective measures and disposing of debris.
15. Raceways below driveways, parking lots, and any raceways installed below grade shall be installed a minimum of 24" below finished grade per NEC 300-5.

B. GROUNDING

- 1. Ground all conduits, cabinets, motors, panels, and other exposed non-current carrying parts of electrical equipment in accordance with NEC article 250.
2. Bond metal water piping and other metal piping (including gas piping) and exposed structural metal in accordance with NEC article 250.
3. Grounding of the electrical system shall be by means of an insulated grounding conductor installed with all feeders and branch circuit conductors in all conduits.



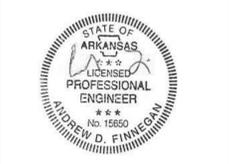
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WRIGHT'S BBQ WALMART
CAMPUS INFILL
1410 SE 8TH STREET STE#14
BENTONVILLE, AR 72712



04/11/2025
Engineer Name - ANDREW D FINNEGAN
Engineer Number - 15650

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REVISIONS

Table with 2 columns: NO. DATE, DESCRIPTION

Drawing Size: 24 x 36
Project #: 24136
Drawn By: ADF
Checked By: ADF

Title: ELECTRICAL SPECIFICATIONS

Sheet Number: E4.0

Date: 04/11/2025

HOOD INFORMATION													
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN)		LOADING	EXHAUST	SUPPLY			SECTION			
			LENGTH	WIDTH	HEIGHT	TYPE	COLLAR(S)	CFM	ESP	CFM	LOC.		
1	ITEM1-HOOD	XNEW-120-S	120	54	24	CONV	KHEAVY	2200	0.330	1883	900	4.401	LEFT
2	ITEM1-HOOD	XNEW-120-S	120	54	24	CONV	KHEAVY	2200	0.330	1883	900	4.401	RIGHT

HOOD INFORMATION - CONTINUED													
HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN)		LOADING	EXHAUST	SUPPLY			SECTION			
			LENGTH	WIDTH	HEIGHT	TYPE	COLLAR(S)	CFM	ESP	CFM	LOC.		
1	ITEM1-HOOD	XNEW-120-S	120	54	24	CONV	KHEAVY	2200	0.330	1883	900	4.401	LEFT
2	ITEM1-HOOD	XNEW-120-S	120	54	24	CONV	KHEAVY	2200	0.330	1883	900	4.401	RIGHT

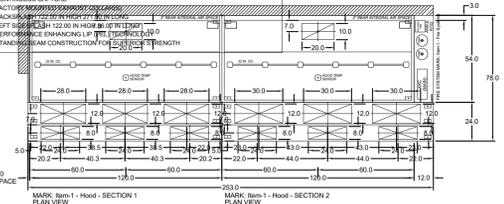
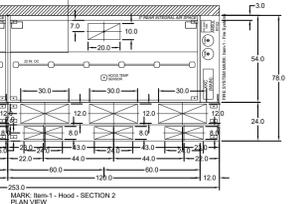
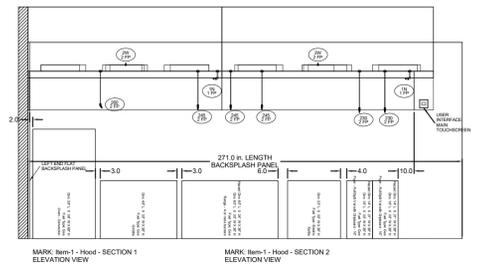
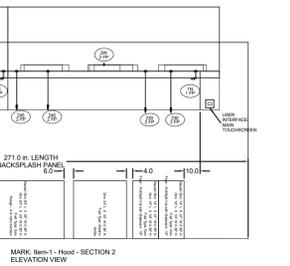
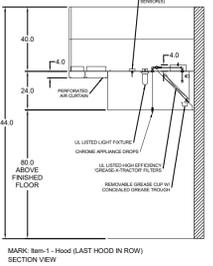
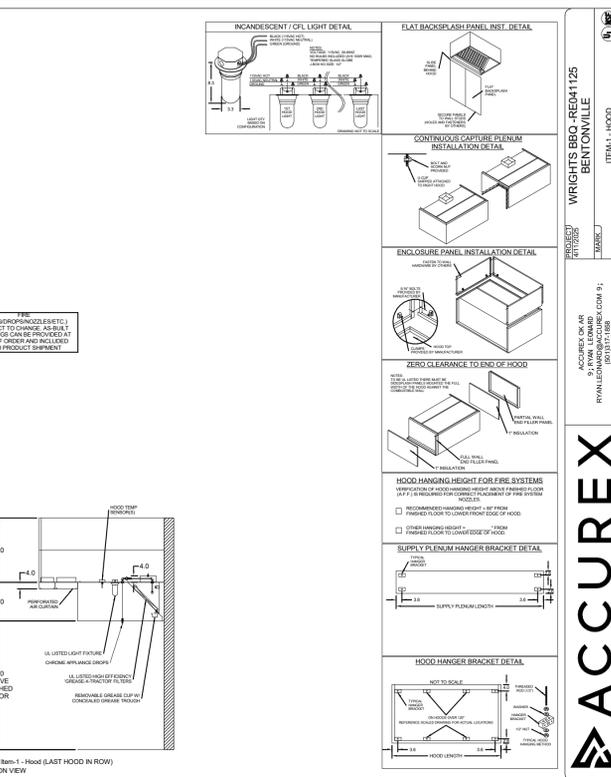
LIGHTING DETAILS									
HOOD NO.	MARK	TYPE	QUANTITY	WATTAGE	LOCATION	CONTROL	INTERFACE	MODEL	CFM
1	ITEM1-HOOD	LED	6	50.71	12.0	ON/OFF	TOUCHSCREEN		300
2	ITEM1-HOOD	LED	6	50.71	12.0	ON/OFF	TOUCHSCREEN		300

SUPPLY FLENUM INFORMATION																		
HOOD NO.	MARK	POS.	TYPE	SIZE (IN)	INSULATED	DAMPERS	LED LIGHTS	CFM	COLLAR									
				L	W	H	QTY	S.P.	TYPE									
1	ITEM1-HOOD	FRONT/BLT/ASH	FRONT/BLT/ASH	12	14	4	NO	NO	NO	1883	5.01	AC	FACTORY	3	12	24	361	240
2	ITEM1-HOOD	FRONT/BLT/ASH	FRONT/BLT/ASH	12	14	4	NO	NO	NO	1883	5.01	AC	FACTORY	3	12	24	361	240

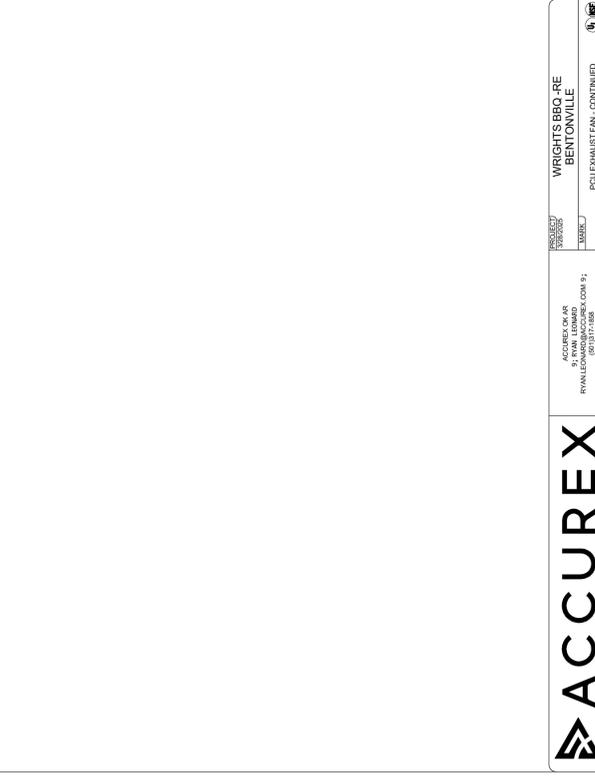
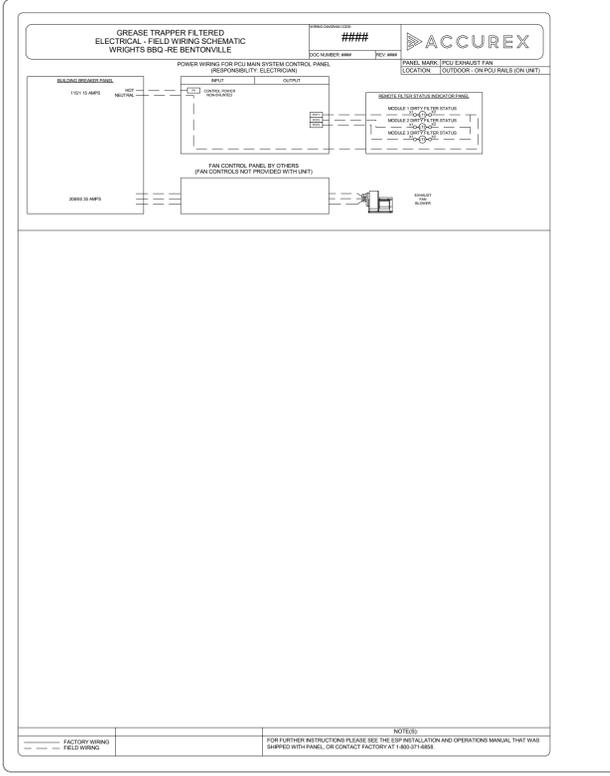
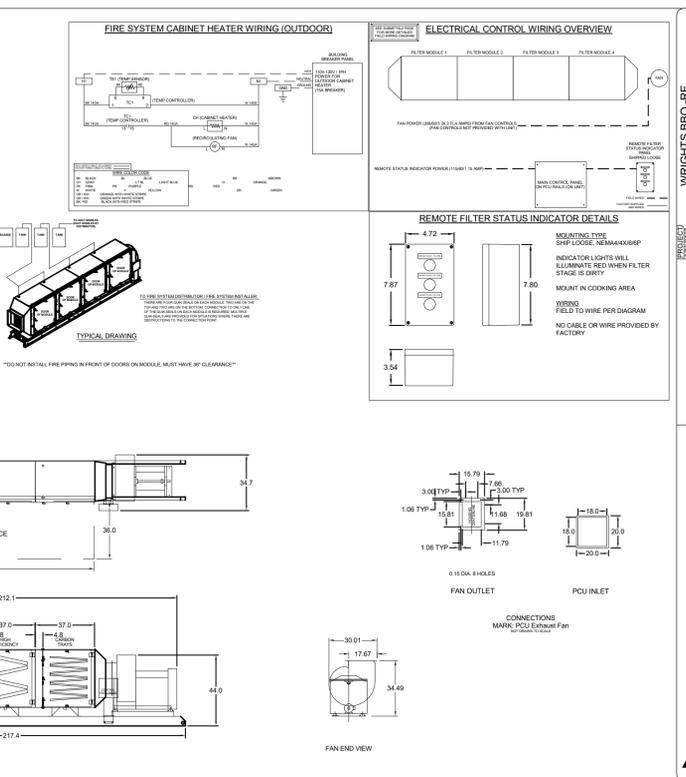
HOOD OPTIONS									
HOOD NO.	MARK	OPTION	DESCRIPTION						
1	ITEM1-HOOD	UL FILTERED V/O	UL FILTERED V/O EXHAUST FIRE DAMPER - UL #9565						
1	ITEM1-HOOD	BACK INTEGRAL AIR SPACE	BACK INTEGRAL AIR SPACE - 3 IN WIDE						
1	ITEM1-HOOD	LEFT NON-INTERAL AIR SPACE	LEFT NON-INTERAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE						
1	ITEM1-HOOD	40 IN HIGH CEILING ENCLOSURES	40 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED						
1	ITEM1-HOOD	CONTINUOUS CAPTURE	CONTINUOUS CAPTURE						
1	ITEM1-HOOD	FACTORY FINISH	FACTORY FINISH						
1	ITEM1-HOOD	BACK INTEGRAL AIR SPACE	BACK INTEGRAL AIR SPACE - 3 IN WIDE						
1	ITEM1-HOOD	LEFT NON-INTERAL AIR SPACE	LEFT NON-INTERAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE						
1	ITEM1-HOOD	40 IN HIGH CEILING ENCLOSURES	40 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED						
1	ITEM1-HOOD	CONTINUOUS CAPTURE	CONTINUOUS CAPTURE						
1	ITEM1-HOOD	FACTORY FINISH	FACTORY FINISH						

FILTERED POLLUTION CONTROL UNIT INFORMATION									
MARK	MODEL	LOCATION	FLOW POINTS	SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM			
ITEM1-FIRE SYSTEMS	ANSL-R102	CABINET - RIGHT END OF ITEM1-HOOD	18 UTILIZED 22 AVAILABLE	18 UTILIZED 22 AVAILABLE	CONTINUOUS	ITEM1-HOOD SECTION 1 ITEM1-HOOD SECTION 2 PCU EXHAUST FAN SECTION			

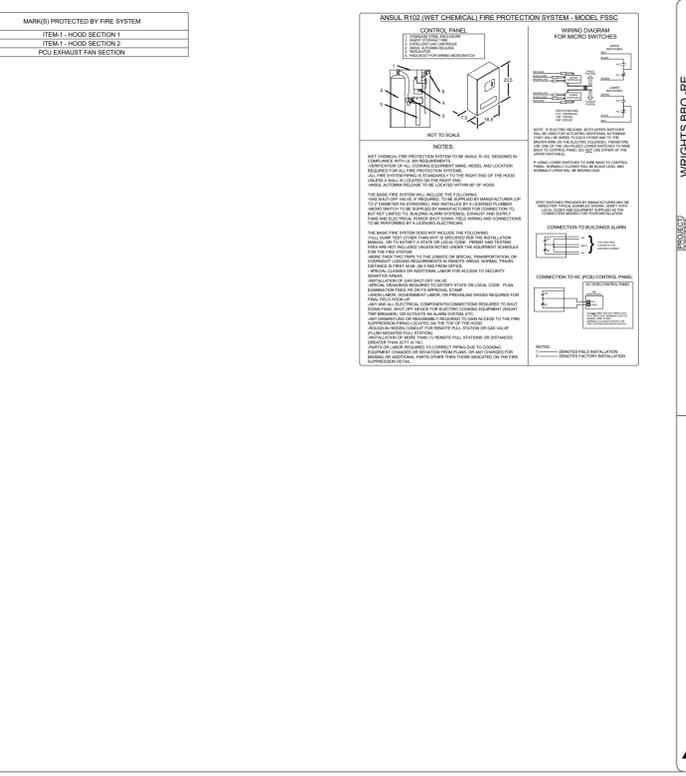
FIRE SYSTEM OPTIONS AND ACCESSORIES									
OPTION	DESCRIPTION	INCLUDED							
UL FILTERED V/O	UL FILTERED V/O EXHAUST FIRE DAMPER - UL #9565	NO							
BACK INTEGRAL AIR SPACE	BACK INTEGRAL AIR SPACE - 3 IN WIDE	NO							
LEFT NON-INTERAL AIR SPACE	LEFT NON-INTERAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE	NO							
40 IN HIGH CEILING ENCLOSURES	40 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED	NO							
CONTINUOUS CAPTURE	CONTINUOUS CAPTURE	NO							
FACTORY FINISH	FACTORY FINISH	NO							
BACK INTEGRAL AIR SPACE	BACK INTEGRAL AIR SPACE - 3 IN WIDE	NO							
LEFT NON-INTERAL AIR SPACE	LEFT NON-INTERAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE	NO							
40 IN HIGH CEILING ENCLOSURES	40 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED	NO							
CONTINUOUS CAPTURE	CONTINUOUS CAPTURE	NO							
FACTORY FINISH	FACTORY FINISH	NO							



FIRE SYSTEM INFORMATION									
MARK	MODEL	LOCATION	FLOW POINTS	SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM			
ITEM1-FIRE SYSTEMS	ANSL-R102	CABINET - RIGHT END OF ITEM1-HOOD	18 UTILIZED 22 AVAILABLE	18 UTILIZED 22 AVAILABLE	CONTINUOUS	ITEM1-HOOD SECTION 1 ITEM1-HOOD SECTION 2 PCU EXHAUST FAN SECTION			

FIRE SYSTEM OPTIONS AND ACCESSORIES									
OPTION	DESCRIPTION	INCLUDED							
UL FILTERED V/O	UL FILTERED V/O EXHAUST FIRE DAMPER - UL #9565	NO							
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40 IN HIGH CEILING ENCLOSURES	40 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED	NO							
CONTINUOUS CAPTURE	CONTINUOUS CAPTURE	NO							
FACTORY FINISH	FACTORY FINISH	NO							
BACK INTEGRAL AIR SPACE	BACK INTEGRAL AIR SPACE - 3 IN WIDE	NO							
LEFT NON-INTERAL AIR SPACE	LEFT NON-INTERAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE	NO							
40 IN HIGH CEILING ENCLOSURES	40 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED	NO							
CONTINUOUS CAPTURE	CONTINUOUS CAPTURE	NO							
FACTORY FINISH	FACTORY FINISH	NO							



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**CLIENT NAME**  
WRIGHT'S BBQ - JORDAN WRIGHT  
1410 SE 8TH STREET#14  
BENTONVILLE, AR 72712

**WRIGTH'S BBQ WALMART**  
**CAMPUS INFILL**  
1410 SE 8TH STREET STE#14  
BENTONVILLE, AR 72712



04/11/2025  
**Engineer Name** - ANDREW D FINNEGAN  
**Engineer Number** - 15550

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REVISIONS		
NO.	DATE	DESCRIPTION

Drawing Size: 24 x 36  
Project #: 24136  
Drawn By: ADF  
Checked By: ADF  
Title: KITCHEN EXHAUST HOOD DETAILS

Sheet Number:  
**KEH1.0**

Date: 04/11/2025

**EQUIPMENT SCHEDULE**

Temp	Make-Up Air Unit	Mark	Model	Quantity	Unit	Notes
1	3000-171-1-DISHOOD	3001-06-0	98.00	38	24	4.00 38" 24"

**PLAN VIEW**

**ELEVATION VIEW**

**END VIEW**

**FOOTPRINT**

NOTE: Roof Opening Requirements:  
Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 2.0" on all sides.  
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.  
Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.  
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.  
NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb. This is by design, in order to help alleviate water infiltration issues.

**HOOD INFORMATION**

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN)	HOOD LOAD CAPACITY (CFM)	EXHAUST COLLAR(S)	SUPPLY MUA CFM	WEIGHT (LBS)	SECTION LOCATION
1	ITEM-17.1 - DISHOOD	3001-06-0	98.00 38 24	4.00 38" 24"	10 450 0.002	3.7 450 0.002	4,143	SINGLE

**HOOD OPTION**

UL FILTERED W/OUT EXHAUST FIRE DAMPER - LE-WR2925  
18" IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED  
FACTORY MOUNTED EXHAUST COLLAR(S)  
FAN SWITCH BY OTHERS - PREFERRED TO USE FAN SWITCH OPTION ON DISHWASHER UNIT

**ENCLOSURE PANEL INSTALLATION DETAIL**

**HOOD HANGER BRACKET DETAIL**

**MARK: Item-17.1 - Dishood - SECTION 1 PLAN VIEW**

**MARK: Item-17.1 - Dishood - SECTION 1 ELEVATION VIEW**

**MARK: Item-17.1 - Dishood - SECTION 1 END VIEW**

**ACCUREX**

WRIGHT'S BBQ - RE BENTONVILLE

ACCUREX OR AIR RYAN@ACCUREX.COM (501)317-1588

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**CONTROL INFORMATION**

MARK	MODEL	LOCATION	TYPE	USER INTERFACE	LOCATION	FAN #	FAN TYPE	FAN MARK	ZONE	CHM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
ITEM-1 - CONTROLS	XK-CV-S-11-2-1-0	RIGHT CABINET ON ITEM-1 HOOD	HOOD	CABINET - RIGHT CABINET ON ITEM-1 HOOD	HOOD	2	SUPPLY	EXHAUST	E1	1	3500	1.5	208	60	3	NO

**CONTROL FEATURES**

- HOODLIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY: 2
- DRY FIRE CONTACTS - QTY: 1
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE
- VFD(S) IN CONTROL PANEL PROVIDED FOR BALANCING

**POWER WIRING FOR KITCHEN CONTROLS**

**POWER WIRING FROM BREAKER PANEL DIRECT TO PANEL**

**CONTROL WIRING FOR KITCHEN CONTROLS**

**CABINET DETAILS**

**USER INTERFACE DETAILS**

**WIRING DIAGRAM CODE: #####**

**MARK: ITEM-1 - CONTROLS**

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**Mixed Flow Ball Valve**

**MARK INFORMATION**

MARK	QTY	MODEL	DRIVE TYPE	VOLUME (LBS)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	TOTAL WEIGHT (LBS)	INLET DIA (IN)	INLET SPHERICAL (IN)	OUTLET DIA (IN)	OUTLET FLANGES (IN)	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT (POWER/PH)	ENCLOSURE VOLTAGE	CYCLE	PHASE	EC	NEC MOTOR PLAT				
DEF-1	1	XAGE-12	Ball	800	0.582	0.582	1,182	573.25	0	1.53	36.27	8.32	0	61.24	12.6	0.16	0.533	0	OP	115	60	1	0	7.2

**DEF-1 - SELECTED OPTIONS AND ACCESSORIES**

- Frame - 480
- Bearings - L110 Life of 120k Hours
- MB Frame on Auxiliary Components
- Hanging, Isolation Rubber, Hanging, 0.25 Inch
- Switch - NEMA-3R, Toggle, For Indoor or Outdoor Use, Slip Resistant
- Quick opening inspection door
- Hot Flange - Flanged
- Outlet Flange - Flanged
- Comparison Flange - 1/2 and Outlet, Flanged, Coated Steel
- Extended Life Chain - Nylon
- Ball Guard - TE, Aluminum
- Main Cover - Aluminum
- UL-MAX-705 - Power Ventilator
- Drain Connection - 1 Inch Pipe Thread w/Plug
- Hanging is not needed for outdoor use.

**MARK: Item-17.1 - Dishood - SECTION 1 PLAN VIEW**

**MARK: Item-17.1 - Dishood - SECTION 1 ELEVATION VIEW**

**MARK: Item-17.1 - Dishood - SECTION 1 END VIEW**

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04/11/2025  
**Engineer Name** - ANDREW D FINNEGAN  
**Engineer Number** - 15550

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**REVISIONS**

NO.	DATE	DESCRIPTION

**Drawing Size:** 24 x 36  
**Project #:** 24136

**Drawn By:** ADF  
**Checked By:** ADF

**Title:** KITCHEN EXHAUST HOOD DETAILS

**Sheet Number:** KEH2.0

**Date:** 04/11/2025

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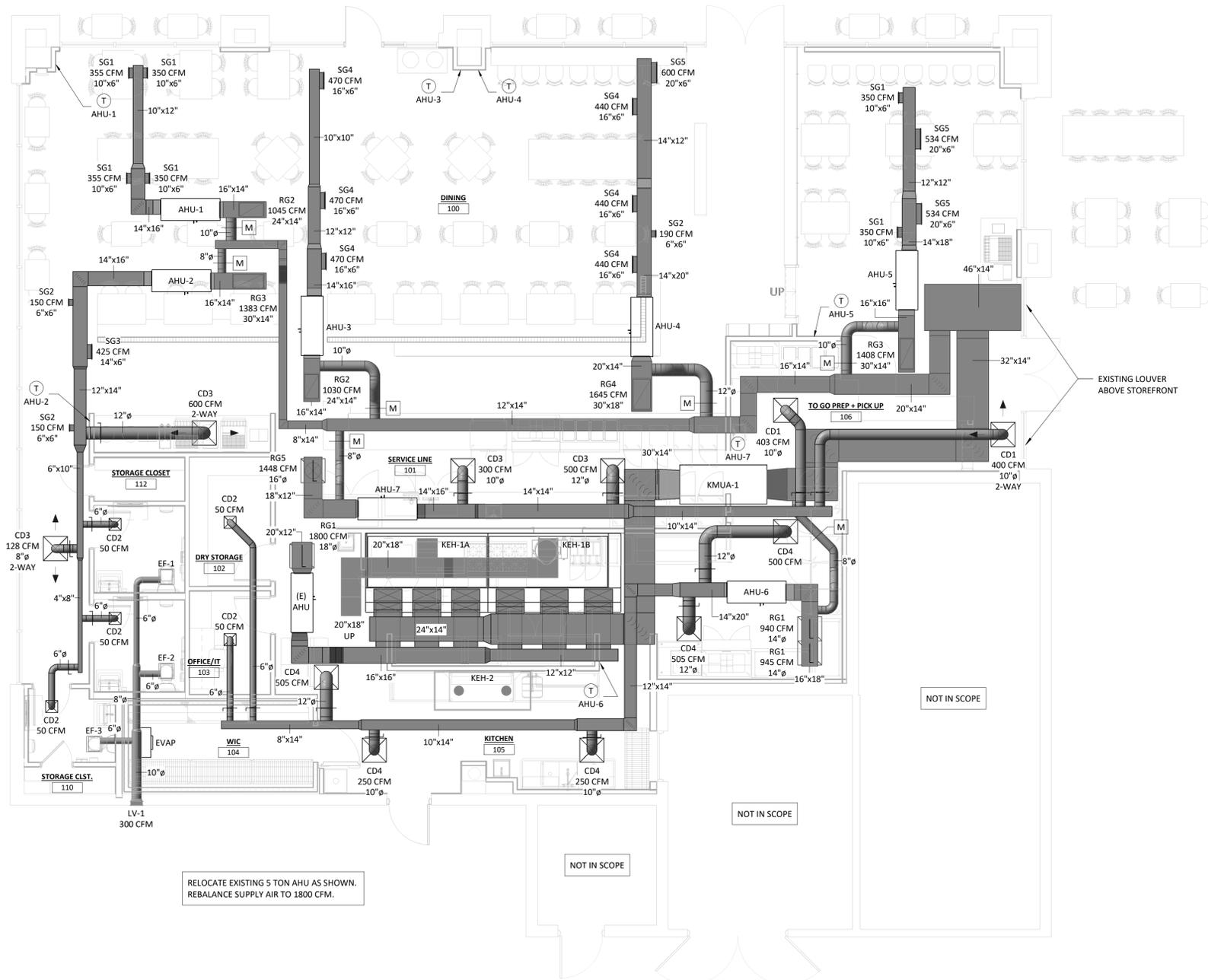
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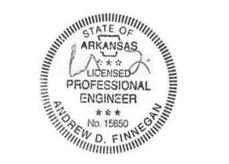


**1**  
M1.0  
**MECHANICAL PLAN**  
3/16" = 1'-0"

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**Drawing Size:** 24 x 36  
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**Drawn By:** ADF  
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**Title:**  
MECHANICAL PLANS

**Sheet Number:**  
**M1.0**

**Date:** 04/11/2025

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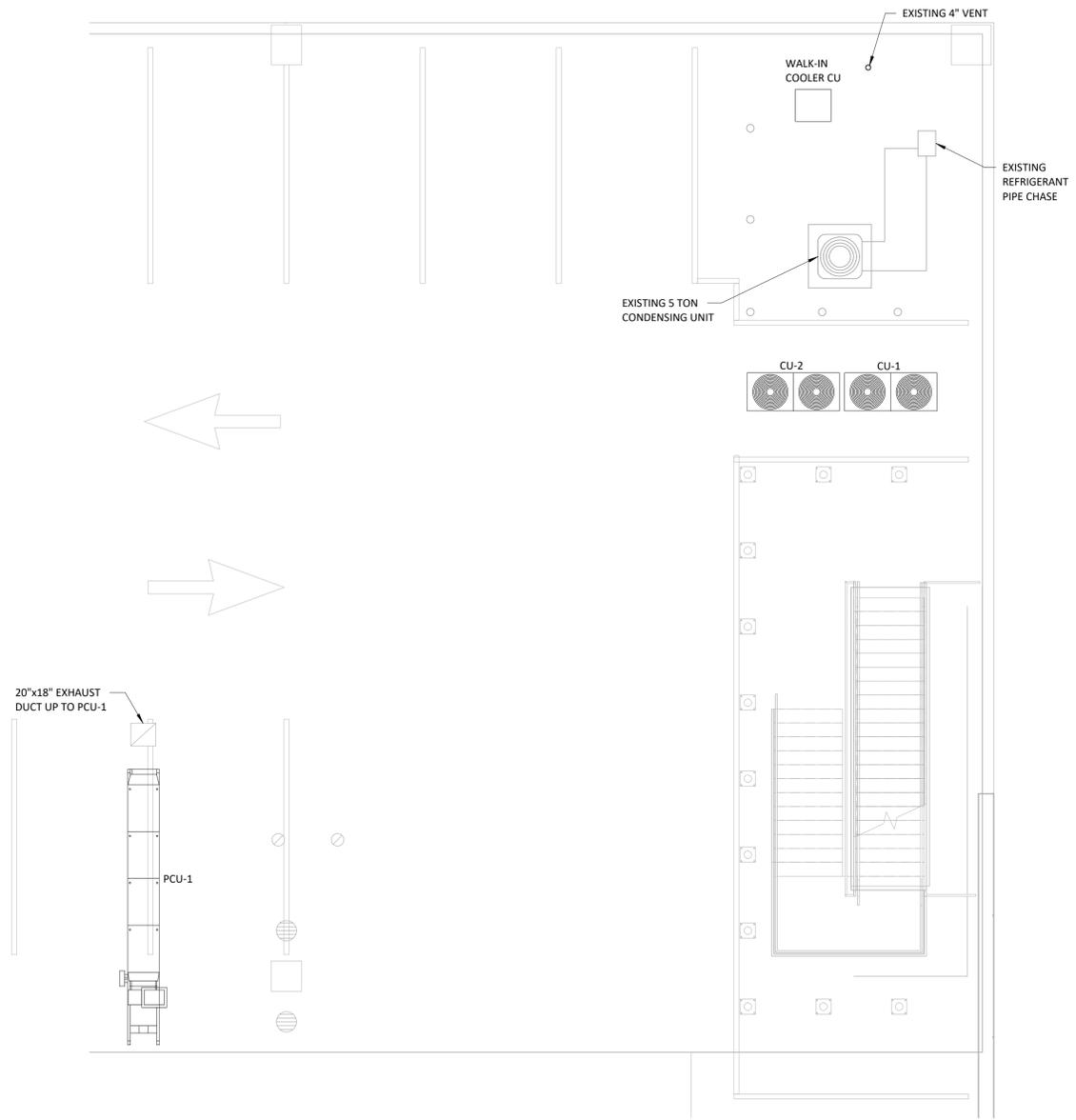
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1 MECHANICAL SECOND FLOOR PLAN  
M1.1 3/16" = 1'-0"



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NO.	DATE	DESCRIPTION

<u>Drawing Size:</u> 24 x 36	<u>Project #:</u> 24136
<u>Drawn By:</u> ADF	<u>Checked By:</u> ADF
<u>Title:</u> MECHANICAL PLANS	

Sheet Number:  
**M1.1**

Date: 04/11/2025

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CONDENSING UNIT SCHEDULE											
MARK	MANUFACTURER	MODEL	NOMINAL TONS	NOMINAL COOLING CAPACITY (MBH)	EER	NOMINAL HEATING CAPACITY (MBH)	COP	ELECTRICAL			WEIGHT (LBS)
								V/PH/HZ	MCA	MOC	
CU	SAMSUNG	AM4088XVGJH/AA	34	408		459		208/3/60			
CU-1	SAMSUNG	AM1928XVGJH/AA	16	192	11.8	216	3.55	208/3/60	60	70	823
CU-2	SAMSUNG	AM2168XVGJH/AA	18	216	10.9	243	3.45	208/3/60	64	80	843

- NOTES:
- OUTDOOR AMBIENT DESIGN TEMPERATURE 95°F.
  - REFRIGERATION LINE SETS SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.

AIR HANDLING UNIT SCHEDULE													
MARK	MANUFACTURER	MODEL	NOMINAL TONS	SUPPLY AIR CFM	OUTSIDE AIR CFM	E.S.P. (IN WC)	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)	ELECTRICAL			WEIGHT (LBS)
							TOTAL	SENSIBLE		V/PH/HZ	MCA	MOC	
AHU-1	SAMSUNG	AM048TNZDCH/AA	4.0	1410	365	0.50	48	32.3	54	208/1/60	2.6	15	214
AHU-2	SAMSUNG	AM054TNZDCH/AA	4.5	1603	220	0.50	54	37.9	60	208/1/60	2.6	15	227
AHU-3	SAMSUNG	AM048TNZDCH/AA	4.0	1410	380	0.50	48	32.3	54	208/1/60	2.6	15	214
AHU-4	SAMSUNG	AM072TNZDCH/AA	6.0	2110	465	0.50	72	50.9	80	208/1/60	2.6	15	238
AHU-5	SAMSUNG	AM060TNZDCH/AA	5.0	1768	360	0.50	60	41.2	64	208/1/60	2.6	15	238
AHU-6	SAMSUNG	AM072TNZDCH/AA	6.0	2110	225	0.50	72	50.9	80	208/1/60	2.6	15	238
AHU-7	SAMSUNG	AM054TNZDCH/AA	4.5	1603	155	0.50	54	37.9	60	208/1/60	2.6	15	227

- NOTES:
- PROVIDE FILTER WITH EACH UNIT.
  - CONDENSATE TRAP SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE TRAP OF ADEQUATE DEPTH TO PREVENT STATIC FROM OVERCOMING TRAP SEAL. ROUTE TO NEAREST APPROVED RECEPTOR.
  - AUXILIARY DRAIN PAN WITH OVERFLOW SENSOR SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.
  - SET FAN OPERATION TO CONTINUOUS.

EXHAUST FAN SCHEDULE									
MARK	MANUFACTURER	MODEL	EXHAUST AIR CFM	E.S.P. (IN. WC)	WATTS	RPM	V/PH/HZ	WEIGHT (LBS)	NOTES
EF-1	GREENHECK	SP-B110	100	0.25	80	950	120/1/60	10	A, B, C
EF-2	GREENHECK	SP-B110	100	0.25	80	950	120/1/60	10	A, B, C
EF-3	GREENHECK	SP-B110	100	0.25	80	950	120/1/60	10	A, B, C

- NOTES:
- PROVIDE GRAVITY BACKDRAFT DAMPER.
  - PROVIDE SPRING VIBRATION ISOLATORS FOR HANGER ROD SUPPORTS.
  - INTERLOCK FAN WITH RESTROOM LIGHTING CONTROLS.

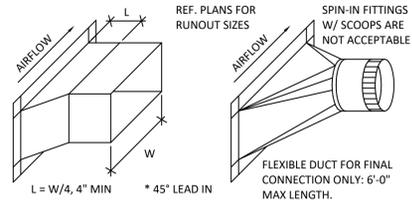
AIR DEVICE SCHEDULE									
MARK	MANUFACTURER	MODEL	STYLE	FACE SIZE	NECK SIZE	FRAME TYPE	MAX NC	NOTES	
CD1	PRICE	ASCD	ALUMINUM ROUND NECK CEILING SUPPLY DIFFUSER	24 X 24	PER PLAN	LAY-IN	30	A, B, C, D	
CD2	PRICE	ASCD	ALUMINUM ROUND NECK CEILING SUPPLY DIFFUSER	12 X 12	PER PLAN	SURFACE	30	A, B, C, D	
CD3	PRICE	ASCD	ALUMINUM ROUND NECK CEILING SUPPLY DIFFUSER	24 X 24	PER PLAN	SURFACE	30	A, B, C, D	
CD4	CAPTIVEAIRE	DI-PSP	DROP-IN PSP WITH ROUND SUPPLY COLLAR, SLIDING RADIAL DAMPER, AND DOUBLE PERFORATION LAYER	24 X 24	PER PLAN	LAY-IN	30	A, B, D	
RG1	PRICE	80	ALUMINUM EGGRATE CEILING RETURN GRILLE	24 X 24	PER PLAN	LAY-IN	30	A, B, C, D	
RG2	PRICE	635	ALUMINUM SIDEWALL RETURN GRILLE	26 X 16	24 X 14	SURFACE	30	A, C, D	
RG3	PRICE	635	ALUMINUM SIDEWALL RETURN GRILLE	32 X 16	30 X 14	SURFACE	30	A, C, D	
RG4	PRICE	635	ALUMINUM SIDEWALL RETURN GRILLE	32 X 20	30 X 18	SURFACE	30	A, C, D	
RG5	PRICE	80	ALUMINUM EGGRATE CEILING RETURN GRILLE	24 X 24	PER PLAN	SURFACE	30	A, B, C, D	
SG1	PRICE	620D	ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE	12 X 8	10 X 6	SURFACE	30	A, C, D, E	
SG2	PRICE	620D	ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE	8 X 8	6 X 6	SURFACE	30	A, C, D, E	
SG3	PRICE	620D	ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE	16 X 8	14 X 6	SURFACE	30	A, C, D, E	
SG4	PRICE	620D	ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE	18 X 8	16 X 6	SURFACE	30	A, C, D, E	
SG5	PRICE	620D	ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE	22 X 8	20 X 6	SURFACE	30	A, C, D, E	

- NOTES:
- DIFFUSER NECK SIZE SHALL BE SAME AS BRANCH DUCT SIZE UNLESS NOTED OTHERWISE.
  - DAMPER AT TAKE-OFF TO DEVICE.
  - PROVIDE NECK FOR DUCT CONNECTION.
  - COORDINATE COLOR WITH ARCHITECT AND OWNER.
  - PROVIDE OPPOSED BLADE DAMPER IN NECK.

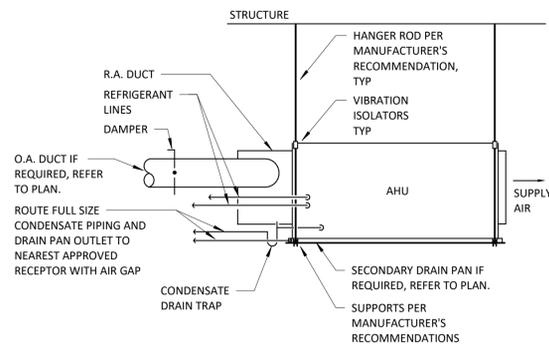
LOUVER SCHEDULE					
MARK	MANUFACTURER	MODEL	SIZE	NET FREE AREA (SQ. FT.)	DESCRIPTION
LV-1	GREENHECK	ESJ-401	12" X 12"	0.29	ALUMINUM STATIONARY FIXED BLADE LOUVER NON-DRAINABLE WITH INSECT SCREEN
LV-2	GREENHECK	ESJ-401	20" X 20"	1.12	ALUMINUM STATIONARY FIXED BLADE LOUVER NON-DRAINABLE WITH INSECT SCREEN

OSA CALCULATIONS							
ROOM	CLASSIFICATION	AREA FT2	CFM PER AREA FT2	NUMBER OF PEOPLE	CFM PER PERSON	OUTSIDE AIR CFM Vbz	OUTSIDE AIR CFM Voz
DINING 1A	DINING ROOMS	330	0.18	31	7.5	291.9	364.875
SERVICE LINE	SALES	342	0.12	3	7.5	63.54	79.425
DRY STORAGE	STORAGE ROOMS	71	0.12	0	0	8.52	10.65
OFFICE	OFFICE SPACE	54	0.06	1	5	8.24	10.3
KITCHEN	KITCHENS (COOKING)	580	0.12	6	7.5	114.6	143.25
TO GO PREP	KITCHENS (COOKING)	187	0.12	5	7.5	59.94	74.925
STORAGE CLOSETS	STORAGE ROOMS	41	0.12	0	0	4.92	6.15
HALLWAY	CORRIDORS	110	0.06	0	0	6.6	8.25
DINING 2	DINING ROOMS	552	0.18	27	7.5	301.86	377.325
DINING 3	DINING ROOMS	726	0.18	32	7.5	370.68	463.35
DISH AREA	KITCHENS (COOKING)	261	0.12	2	7.5	46.32	57.9
RAISED DINING	DINING ROOMS	504	0.18	26	7.5	285.72	357.15
DINING 1B	DINING ROOMS	330	0.18	14	7.5	164.4	205.5
						TOTAL	2159.05

$$E_z = 0.8 \quad V_{bz} = R_p P_z \quad R_3 A_z \quad V_{oz} = V_{bz} / E_z$$



2 M2.0 BRANCH DUCT FITTING N.T.S.



1 M2.0 HORIZONTAL AHU DETAIL N.T.S.

AIR BALANCE SCHEDULE		
MARK	OUTSIDE AIR CFM	EXHAUST AIR CFM
(E) AHU	0	
AHU-1	365	
AHU-2	220	
AHU-3	380	
AHU-4	465	
AHU-5	360	
AHU-6	225	
AHU-7	155	
KMUA-1	3520	
EF-1		100
EF-2		100
EF-3		100
DEF-1		900
PCU-1		4400
TOTAL	5690	5600

- ### MECHANICAL GENERAL NOTES
- NOTES APPLY TO ALL MECHANICAL SHEETS.
  - EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK.
  - PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
  - EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
  - COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
  - DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
  - ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
  - NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
  - DUCTWORK IDENTIFICATION AND INSTALLATION SHALL ADHERE TO GOVERNING CODES.
  - INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
  - OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF.
  - COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT.
  - SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
  - COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
  - SPRINKLER HEAD AND LIGHTING FIXTURE LOCATIONS TAKE PRECEDENCE OVER DIFFUSER LOCATIONS. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID, SPRINKLER, AND LIGHTING LOCATIONS.
  - ALL CEILING DIFFUSERS ARE 4-WAY PATTERN UNLESS NOTED OTHERWISE.
  - LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. INSTALL WIRING IN CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR.
  - DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
  - PROVIDE FIRE OR FIRE/SMOKE DAMPERS, AS APPLICABLE, IN DUCTWORK AT CEILINGS AND WALLS AT LOCATIONS SHOWN ON THE PLANS. FIRE AND FIRE/SMOKE DAMPERS SHALL CONFORM TO NFPA AS APPLICABLE. COORDINATE SLEEVE LENGTH WITH REQUIREMENTS OF INSTALLED LOCATION.
  - PROVIDE WALL OR DUCT ACCESS PANELS OR DOORS FOR ACCESS TO FIRE AND FIRE/SMOKE DAMPERS. ACCESS PANEL OR DOOR SHALL BE MINIMUM SIZE OF 10" BY 10" AND SHALL BE INSTALLED WITHIN 12" OF DAMPER. PROVIDE A REMOVABLE DUCT SECTION WHERE DUCT SIZE IS TOO SMALL FOR A 10" BY 10" ACCESS DOOR.
  - PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS. LOCATE DAMPERS A MINIMUM 4'-0" AWAY FROM DIFFUSERS. PROVIDE ACCESS AS REQUIRED.
  - PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES.
  - BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED. TYPICAL BRANCH DUCT FITTING DETAIL IS APPLICABLE THROUGHOUT.
  - RIGID DUCTWORK INSULATION: PROVIDE 3/4 LB DENSITY, 2" R-6 THICK, INSULATION WRAP ON RIGID ROUNDS AND RECTANGULAR, CONCEALED, SUPPLY AND RETURN AIR DUCTS AND ON OUTSIDE AIR DUCTS. CONTRACTOR'S OPTION TO FURNISH AND INSTALL 1-1/2 LB DENSITY, 1-1/2" R-6 THICK INTERNAL DUCT LINER ON RECTANGULAR SUPPLY AND RETURN AIR DUCTS IN LIEU OF DUCTWRAP.
  - DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS AND REPRESENTATIVE OF THE INSIDE EQUIVALENT FREE AREA REQUIRED TO MAINTAIN THE AIR FLOW SPECIFIED. IF DUCT LINING IS REQUIRED, INCREASE DUCT SIZE TO MAINTAIN ORIGINAL INSIDE DIMENSIONS. IF DUCT SIZES NEED TO BE ALTERED FOR SPACE REQUIREMENTS, ENSURE THE ORIGINAL INSIDE DUCT EQUIVALENT FREE AREA IS MAINTAINED.
  - CONTRACTOR'S OPTION TO SUBSTITUTE ROUND DUCT OF EQUAL FREE AREA FOR RECTANGULAR DUCT AND VICE VERSA. DIMENSIONS OF RECTANGULAR DUCT MAY BE ADJUSTED AS NECESSARY TO INSTALL DUCT IN AVAILABLE SPACE AS LONG AS FREE AREA IS MAINTAINED.
  - PROVIDE THERMAFLEX TYPE G-KM, M-KE, FLEXMASTER TYPE 8, OR APPROVED EQUAL FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE LISTED UNDER UL 181 AS CLASS 1 AIR DUCT AND BE PROVIDED WITH INTEGRAL R-6, 3/4 LB DENSITY FIBERGLASS INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING.
  - FOR ALL EXPOSED DUCTWORK, PROVIDE DUCT THAT IS SUITABLE FOR PAINTING. ENSURE THAT ALL EXPOSED DUCTWORK IS PROPERLY PREPARED AND READY FOR PAINTING. COORDINATE COLOR WITH ARCHITECT.
  - PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING. ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.
  - PROVIDE A COMPLETE TEST AND BALANCE FOR HVAC SYSTEM. AIR BALANCE SHALL BE WITHIN 5% OF SCHEDULED AIRFLOWS.
  - INSTALL VTR'S AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE.

MECHANICAL SYMBOLS	
(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)	
SYMBOL	DESCRIPTION
	RECTANGULAR DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
	12" Ø DIAMETER ROUND DUCT (INSIDE CLEAR DIMENSIONS)
	SUPPLY DUCT IN SECTION
	RETURN OR EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES
	VOLUME/BALANCE DAMPER
	MOTORIZED DAMPER
	SUPPLY AIR DIFFUSER
	RETURN OR EXHAUST AIR GRILLE
	DIFFUSER OR GRILLE TYPE BRANCH DUCT & NECK SIZE CFM
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDISTAT
	FIRE DAMPER
	SMOKE DETECTOR
ANNOTATION	
	MECHANICAL PLAN KEYNOTE
	MECHANICAL EQUIPMENT DESIGNATION CONNECTION POINT OF NEW WORK TO EXISTING
	DETAIL REFERENCE: UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER
	SECTION CUT DESIGNATION
ABBREVIATIONS	
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
DDC	DIRECT DIGITAL CONTROL
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
ETR	EXISTING TO REMAIN
GC	GENERAL CONTRACTOR
IN WC	INCHES OF WATER COLUMN
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MIN	MINIMUM
OSA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
RA	RETURN AIR
RC	REFRIGERATION CONTRACTOR
REF	REFERENCE
SA	SUPPLY AIR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THRU ROOF



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MECHANICAL SPECIFICATIONS

1: GENERAL

1.1 GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. THE CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECTS ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND/OR OWNER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

1.2 INSPECTION OF SITE

PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

1.3 MATERIAL AND WORKMANSHIP

PROVIDE NEW MATERIAL, EQUIPMENT, AND APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND FREE FROM ANY DEFECTS. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT NECESSARILY INTENDED TO DESIGNATE THE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF THE TRIM GOVERN MODEL NUMBERS.

WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED. TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER. WORKMANSHIP SHALL BE THE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES AND LAWS.

THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL, ETC. ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCTS, AIR DEVICES, AND SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL, MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTED.

REMOVE FROM THE PREMISES WASTE MATERIAL PRESENT AS A RESULT OF WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, AND/OR EXCAVATION MATERIAL NOT USED IN BACKFILLING, ETC. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT A NEAT AND CLEAN INSTALLATION AT THE TERMINATION OF THE WORK.

REPAIR OR REPLACE PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO THE SATISFACTION OF AUTHORITIES AND REGULATIONS HAVING JURISDICTION.

1.4 COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. THE CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED, KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR DUCTWORK LAYOUT TO THE CONSTRUCTION MANAGER FOR OWNER APPROVAL PRIOR TO INSTALLATION.

1.5 ORDINANCES AND CODES

WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES HAVING JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL A/HI INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM), AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THEIR REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.

PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN, PAY FOR, AND FURNISH CERTIFICATES OF INSPECTION TO THE OWNER. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF THE LAW.

1.6 PROTECTION OF EQUIPMENT AND MATERIALS

STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, AND CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND AS APPROVED BY OWNER.

KEEP PREMISES CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC., SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK.

PLUG OR CAP OPEN ENDS OF DUCTWORK AND PIPING SYSTEMS WHILE STORED OR INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS.

1.7 SUBSTITUTIONS

THE BASE BID SHALL INCLUDE ONLY THE PRODUCTS FROM MANUFACTURERS SPECIFICALLY NAMED IN THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTION WILL BE CONSIDERED PRIOR TO RECEIPT OF BIDS UNLESS WRITTEN REQUEST FOR APPROVAL TO BID HAS BEEN RECEIVED BY THE ENGINEER AT LEAST TEN CALENDAR DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. EACH SUCH REQUEST SHALL INCLUDE THE NAME OF THE MATERIAL OR EQUIPMENT FOR WHICH IT IS TO BE SUBSTITUTED AND A COMPLETE DESCRIPTION OF THE PROPOSED SUBSTITUTE INCLUDING DRAWINGS, CUTS, PERFORMANCE AND TEST DATA AND OTHER INFORMATION NECESSARY FOR AN EVALUATION. A STATEMENT SETTING FORTH CHANGES IN OTHER MATERIALS, EQUIPMENT OR OTHER WORK THAT INCORPORATION OF THE SUBSTITUTE WOULD REQUIRE SHALL BE INCLUDED. THE BURDEN OF PROOF OF THE MERIT OF THE PROPOSED SUBSTITUTE IS UPON THE PROPOSER. THE ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL TO BID OF A PROPOSED SUBSTITUTION SHALL BE FINAL.

THE TERMS "APPROVED", "APPROVED EQUAL", AND "EQUAL" REFER TO APPROVAL BY THE ENGINEER AS AN ACCEPTABLE ALTERNATE BID. NO SUBSTITUTIONS WILL BE CONSIDERED THAT ARE NOT BID AS AN ALTERNATE. NO MATERIAL SUBSTITUTIONS SHALL BE CONSIDERED FOR APPROVAL PRIOR TO AWARD OF CONTRACT.

COORDINATE AND VERIFY WITH OTHER TRADES WHETHER OR NOT THE SUBSTITUTED EQUIPMENT CAN BE INSTALLED AS SHOWN ON THE CONSTRUCTION DRAWINGS WITHOUT MODIFICATION TO ASSOCIATED SYSTEMS OR ARCHITECTURAL OR ENGINEERING DESIGN. INCLUDE ADDITIONAL COSTS FOR ARCHITECTURAL AND ENGINEERING DESIGN FEES IN BID IF DRAWING MODIFICATIONS ARE REQUIRED BECAUSE OF SUBSTITUTED EQUIPMENT.

1.8 OPERATION AND MAINTENANCE INSTRUCTIONS

COLLECT AND COMPILE A COMPLETE BROCHURE OF FIXTURES, MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL AND MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, AND DESCRIPTIVE LITERATURE FURNISHED BY THE MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS THE PROJECT NAME, DATE, OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUBCONTRACTOR, AND AN INDEX OF CONTENTS.

SUBMIT COPIES OF LITERATURE BOUND IN APPROVED BINDERS TO THE ARCHITECT AND OWNER AT THE TERMINATION OF THE WORK. PAPER CLIPS, STAPLES, RUBBER BANDS, AND MAILING ENVELOPES ARE NOT CONSIDERED APPROVED BINDERS. FINAL APPROVAL OF MECHANICAL SYSTEMS WILL BE WITHHELD UNTIL THIS EQUIPMENT BROCHURE IS DEEMED COMPLETE BY THE ARCHITECT, ENGINEER, AND OWNER.

1.9 SPARE PARTS

FURNISH TO OWNER, WITH RECEIPT, THE FOLLOWING SPARE PARTS FOR THE EQUIPMENT FURNISHED FOR THIS PROJECT:

ONE SET OF SPARE FILTERS OF EACH TYPE REQUIRED FOR EACH UNIT. IN ADDITION TO THE SPARE SET OF FILTERS, INSTALL NEW FILTERS PRIOR TO TESTING, ADJUSTING, AND BALANCING WORK AND BEFORE TURNING SYSTEM OVER TO OWNER.

FURNISH ONE COMPLETE SET OF BELTS FOR EACH FAN.

FURNISH THREE OPERATING KEYS FOR EACH TYPE OF AIR OUTLET AND INLET THAT REQUIRES THEM.

1.10 WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN, OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

1.11 CUTTING AND PATCHING

PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

1.12 ROUGH-IN

COORDINATE WITHOUT DELAY ROUGHING-IN WITH GENERAL CONSTRUCTION. CONCEAL PIPING AND CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS WHERE OTHERWISE SHOWN.

1.13 STRUCTURAL STEEL

STRUCTURAL STEEL USED FOR PIPE SUPPORTS, EQUIPMENT SUPPORTS, ETC., SHALL BE NEW, CLEAN, AND CONFORM TO ASTM DESIGNATION A-36.

SUPPORT PLUMBING AND MECHANICAL EQUIPMENT AND PIPING FROM THE BUILDING STRUCTURE. DO NOT SUPPORT PLUMBING EQUIPMENT FROM CEILINGS, OTHER MECHANICAL OR ELECTRICAL COMPONENTS, AND OTHER NON-STRUCTURAL ELEMENTS.

1.14 ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS WHERE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION, AND COLOR BEFORE ORDERING.

1.15 PENETRATIONS

SEAL FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATER AND WEATHER TIGHT WITH APPROPRIATE NON-SHRINK, NON-HARDENING COMMERCIAL CONSTRUCTION SEALANT. SEAL ROOF PENETRATIONS WITH FOUR POUND PER SQUARE FOOT LEAD FLASHING. PROVIDE A SLEEVE, AND SEAL NON-FIRE-RATED FLOOR AND WALL PENETRATIONS WITH FIBERGLASS PACKING AND SILICONE CAULK (FOR ACOUSTICAL INSULATION).

COORDINATE FIRE RATING REQUIREMENTS AND LOCATIONS WITH THE ARCHITECT. SEAL PENETRATIONS OF FIRE-RATED ASSEMBLIES WITH 3M MCP-25 FIRE BARRIER CAULK (PROVIDE THICKNESS AND METHOD AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN THE FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.

SEAL EXTERIOR WALL PENETRATIONS BELOW GRADE WITH CAST IRON WALL PIPES AND MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE/LINK SEAL, CALPICO, INC AND METRAFLEX.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER THE FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SLEEVES FOR VERTICAL PIPE PASSING THROUGH SLAB ON GRADE. SLEEVES SHALL BE SCHEDULE 40 PVC PIPE, TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATER-TIGHT WITH SILICONE CAULK.

2: HEATING, VENTILATION, AND AIR CONDITIONING

2.1 DUCTWORK

CONTRACTOR SHALL PROVIDE ANY DUCTWORK NECESSARY FOR A COMPLETE INSTALLATION OF HVAC SYSTEMS (INCLUDING EXHAUST SYSTEMS). ALL DUCTWORK IDENTIFICATION AND INSTALLATION TO ADHERE TO ASHRAE AND SMACNA STANDARDS AND ALL GOVERNING CODES.

DUCTWORK SHALL BE A MINIMUM 26 GAUGE GALVANIZED STEEL SHEET METAL DUCTWORK.

SUPPLY DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR A TWO-INCH POSITIVE PRESSURE RATING AND SEAL CLASS B.

RETURN DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR A ONE-INCH NEGATIVE PRESSURE RATING AND SEAL CLASS C.

EXHAUST DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR A ONE-INCH POSITIVE PRESSURE RATING AND SEAL CLASS C.

ROUND DUCT RUNS SHALL BE CONSTRUCTED OF METAL PIPE WITH EXTERNAL SLEEVE INSULATION.

DUCTWORK CONNECTIONS TO AIR DEVICES MUST BE MADE WITH HARDPIPE ELBOWS, COVERED WITH SLEEVE INSULATION. FLEX DUCT MUST NOT BE UTILIZED FOR A 90 DEGREE CONNECTION TO AN AIR DEVICE.

VOLUME/BALANCING DAMPERS SHALL BE PROVIDED IN ALL BRANCH DUCT TAKE-OFFS FROM THE MAIN TRUNKS, UNLESS NOTED OTHERWISE ON PLANS. LOCATE DAMPERS A MINIMUM OF 4'-0" AWAY FROM AIR DEVICES.

A MAXIMUM OF 5'-0" OF FLEX DUCT MAY BE USED FOR FINAL CONNECTION OF AIR DEVICES.

FLEX DUCT MUST BE PROPERLY SUPPORTED WITH ONE INCH STRAPS AND CUT TO PROPER LENGTH TO PREVENT SAGGING.

FLEX DUCT SHALL BE OWENS-CORNING FOIL-BACK HIGH QUALITY U/L APPROVED OR EQUAL. PLASTIC WRAPPED FLEX DUCT IS NOT ACCEPTABLE.

DUCTWORK SHALL BE CONNECTED TO FANS, FAN CASINGS, AND FAN PLENUMS BY MEANS OF FLEXIBLE CONNECTIONS.

MITERED ELBOWS 45 DEGREES AND GREATER SHALL HAVE SINGLE THICKNESS TURNING VANES OF SAME GAUGE AS DUCTWORK.

2.2 INSULATION

SUPPLY AND RETURN DUCTWORK INSIDE THE BUILDING SHALL BE INSULATED WITH 1.5" THICK ACOUSTICAL LINING WITH A MINIMUM R-VALUE OF 6 OR EXTERNALLY WRAPPED WITH 2" THICK GLASS FIBER DUCT WRAP.

SUPPLY AND RETURN DUCTWORK LOCATED OUTSIDE THE BUILDING SHALL BE INSULATED WITH 2" LINER WITH A MINIMUM R-VALUE OF 8 AND SEAL SEAMS WEATHER TIGHT.

DEDICATED OUTSIDE AIR SUPPLY AND RELIEF DUCTWORK INSIDE THE BUILDING SHALL BE INSULATED WITH 2" DUCT WRAP WITH A MINIMUM R-VALUE OF 6.

2.3 PIPING

REFER TO PLUMBING SPECIFICATIONS FOR GAS AND CONDENSATE PIPING SPECIFICATIONS.

2.4 FINAL TESTING AND ADJUSTMENTS

AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCE CONTRACTOR. BALANCE EACH SUPPLY, RETURN, OUTSIDE AIR DEVICE WITHIN 5% OF REQUIREMENTS AND FURNISH A REPORT TO THE CONSTRUCTION MANAGER. THE ENTIRE HVAC SYSTEM MUST BE FULLY OPERABLE, BALANCED, AND APPROVED BY OWNER'S REPRESENTATIVE ON THE DAY TENANT OPENS FOR BUSINESS.

ADJUST THERMOSTATS AND CONTROL DEVICES TO OPERATE AS INTENDED. ADJUST BURNERS, PUMPS, FANS, ETC. FOR PROPER AND EFFICIENT OPERATION. CERTIFY TO ARCHITECT THAT ADJUSTMENTS HAVE BEEN MADE AND THAT SYSTEM IS OPERATING SATISFACTORILY. CALIBRATE, SET AND ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, AND OPERATION OF SAFETY CONTROLS.

VERIFY ECONOMIZER OPERATION PER MANUFACTURER PROCEDURE WHEN APPLICABLE.

2.5 AIR DEVICES

PROVIDE AIR DEVICES AS SCHEDULED ON THE DRAWINGS.

MAINTAIN NOISE LEVEL OF NC-30 OR LESS.

ALL AIR TERMINAL DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS IN ORDER TO HANDLE THE DESIGNED AIR FLOW CAPACITIES WITH A MINIMUM AMOUNT OF NOISE AND STATIC PRESSURE.

PROVIDE AIR DEVICES WITH WHITE ENAMEL FINISH UNLESS NOTED OTHERWISE.

2.6 CONTROLS

COORDINATE LOCATIONS FOR THERMOSTATS AND SENSORS FOR ROUGH-IN.

SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND SHALL DISABLE HVAC UNIT OPERATION UPON ACTIVATION.

2.7 ELECTRICAL WIRING

ALL PROVISIONS FOR LOW VOLTAGE WIRING SHALL BE PERFORMED BY THE CONTRACTOR UNLESS CODES OR LABOR SITUATIONS DO NOT PERMIT. IF THE CONTRACTOR CANNOT PERFORM LOW VOLTAGE WIRING, THE CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR, AS PART OF THE HVAC BID DOCUMENT, TO HAVE THE ELECTRICAL SUBCONTRACTOR INCLUDE THIS WORK IN THEIR BID.

ALL ELECTRICAL POWER WIRING TO INCLUDE FINAL CONNECTIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR'S ELECTRICAL SUBCONTRACTOR.

2.8 REMODEL WORK

REMOVE ALL UNUSED EQUIPMENT, DUCTWORK, PIPING AND ASSOCIATED SUPPORTS. CAP DUCTWORK AND PIPING AT MAINS AND SEAL AIR AND WATER TIGHT.

PROVIDE ITEMS OF HVAC SYSTEMS MODIFICATION REQUIRED BECAUSE OF BUILDING REMODELING, AS NOTED ON THE DRAWINGS OR NECESSARY FOR PROPER OPERATION. MATCH EXISTING MATERIALS AND CONSTRUCTION TECHNIQUES WHEN MODIFYING EXISTING SYSTEMS UNLESS SPECIFIED OTHERWISE. COORDINATE ADDITIONAL REQUIREMENTS WITH GENERAL CONTRACTOR AND ARCHITECT.

SEAL AIRTIGHT EXISTING DUCTWORK REQUIRED TO BE ABANDONED IN PLACE OR NOT IN USE AT THE TERMINATION OF THE WORK.

CAP AND SEAL WEATHERTIGHT EXISTING ROOF CURBS AND ROOF OPENINGS TO BE ABANDONED IN PLACE AS A RESULT OF EQUIPMENT REMOVAL.

CLEAN AND REBALANCE EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES INTENDED FOR REUSE AS REQUIRED OR AS INDICATED ON DRAWINGS.

CLEAN AND REFINISH EXISTING HVAC EQUIPMENT INTENDED FOR REUSE AS REQUIRED FOR PROPER OPERATION INCLUDING REPLACEMENT OF FILTERS, BELTS, MOTORS, REMOTE CONTROLS, AND SAFETY INTERLOCKS.

COMPLY WITH THE SCHEDULE OF OPERATIONS AS OUTLINED IN THE ARCHITECTURAL PORTIONS OF THIS SPECIFICATION. BUILDING SHALL BE IN CONTINUOUS OPERATION. ACCOMPLISH WORK REQUIRING INTERRUPTION OF BUILDING OPERATION AT A TIME WHEN THE BUILDING IS NOT IN OPERATION, AND ONLY WITH WRITTEN APPROVAL OF BUILDING OWNER AND/OR TENANT. COORDINATE INTERRUPTION OF BUILDING OPERATION WITH THE OWNER AND/OR TENANT A MINIMUM OF SEVEN DAYS IN ADVANCE OF WORK.

2.9 CONTRACTOR RESPONSIBILITIES

AFTER COMPLETION OF THE WORK DESCRIBED IN THIS SPECIFICATION AND SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVING ALL LABELS AND STICKERS NOT CONTAINING OPERATION INSTRUCTION. CONTRACTOR SHALL REMOVE CRATING DEBRIS, LEAVING THE INSTALLATION FINISHED AND READY FOR OPERATION, INCLUDING CLEAN FILTERS IN AIR HANDLING UNITS.

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702 SE 5TH ST STE 50 BENTONVILLE, AR 72712 TEL: 479.579.9959

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WRIGHT'S BBQ WALMART CAMPUS INFILL 1410 SE 8TH STREET STE#14 BENTONVILLE, AR 72712



04/11/2025

Engineer Name - ANDREW D FINNEGAN Engineer Number - 15650

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REVISIONS

Table with 2 columns: NO, DATE, DESCRIPTION

Drawing Size: 24 x 36 Project #: 24136 Drawn By: ADF Checked By: ADF

Title: MECHANICAL SPECIFICATIONS

Sheet Number: M3.0

Date: 04/11/2025

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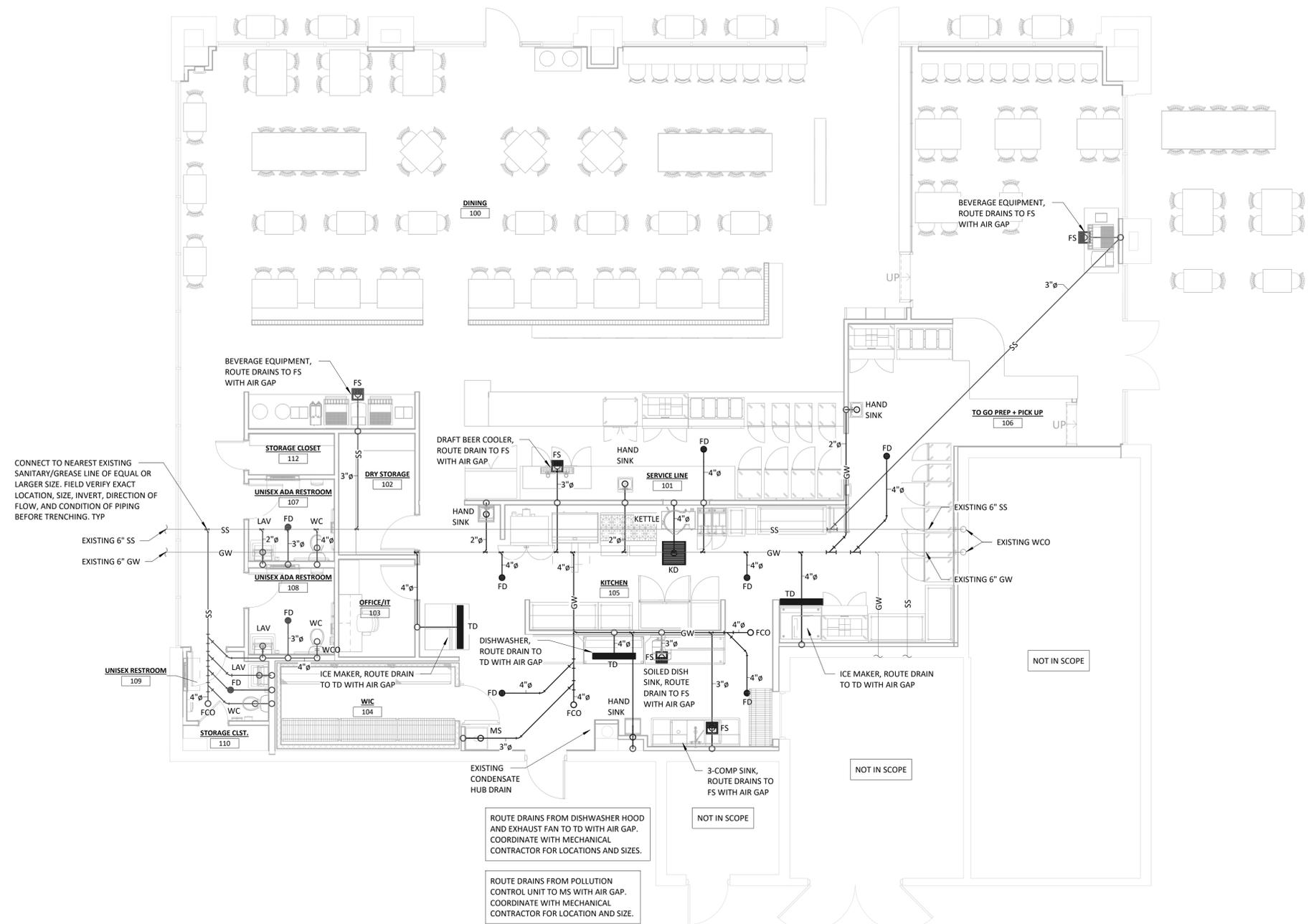
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**1**  
P1.0  
**DWV PIPING PLAN**  
3/16" = 1'-0"



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04/11/2025  
**Engineer Name** - ANDREW D FINNEGAN  
**Engineer Number** - 15650

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REVISIONS		
NO.	DATE	DESCRIPTION

**Drawing Size:** 24 x 36  
**Project #:** 24136  
**Drawn By:** ADF  
**Checked By:** ADF

**Title:**  
DWV PIPING PLAN

**Sheet Number:**  
**P1.0**

**Date:** 04/11/2025

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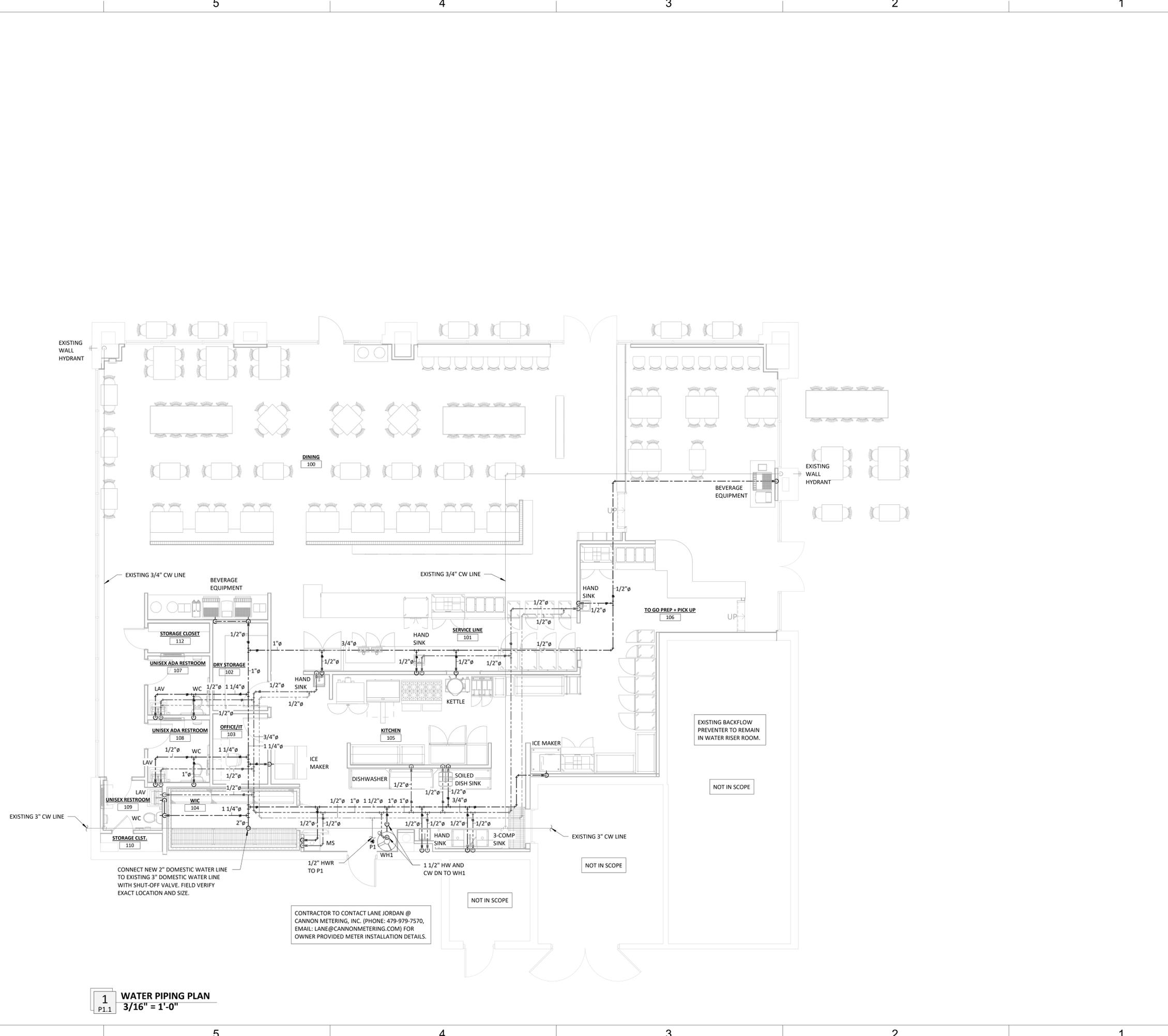
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**1**  
P1.1 **WATER PIPING PLAN**  
3/16" = 1'-0"

CONTRACTOR TO CONTACT LANE JORDAN @  
CANNON METERING, INC. (PHONE: 479-979-7570,  
EMAIL: LANE@CANNONMETERING.COM) FOR  
OWNER PROVIDED METER INSTALLATION DETAILS.

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BENTONVILLE, AR 72712



04/11/2025  
**Engineer Name** - ANDREW D FINNEGAN  
**Engineer Number** - 15550

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REVISIONS	
NO.	DESCRIPTION

**Drawing Size:** 24 x 36  
**Project #:** 24136  
**Drawn By:** ADF  
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**Title:**  
WATER PIPING PLAN

**Sheet Number:**  
**P1.1**

**Date:** 04/11/2025

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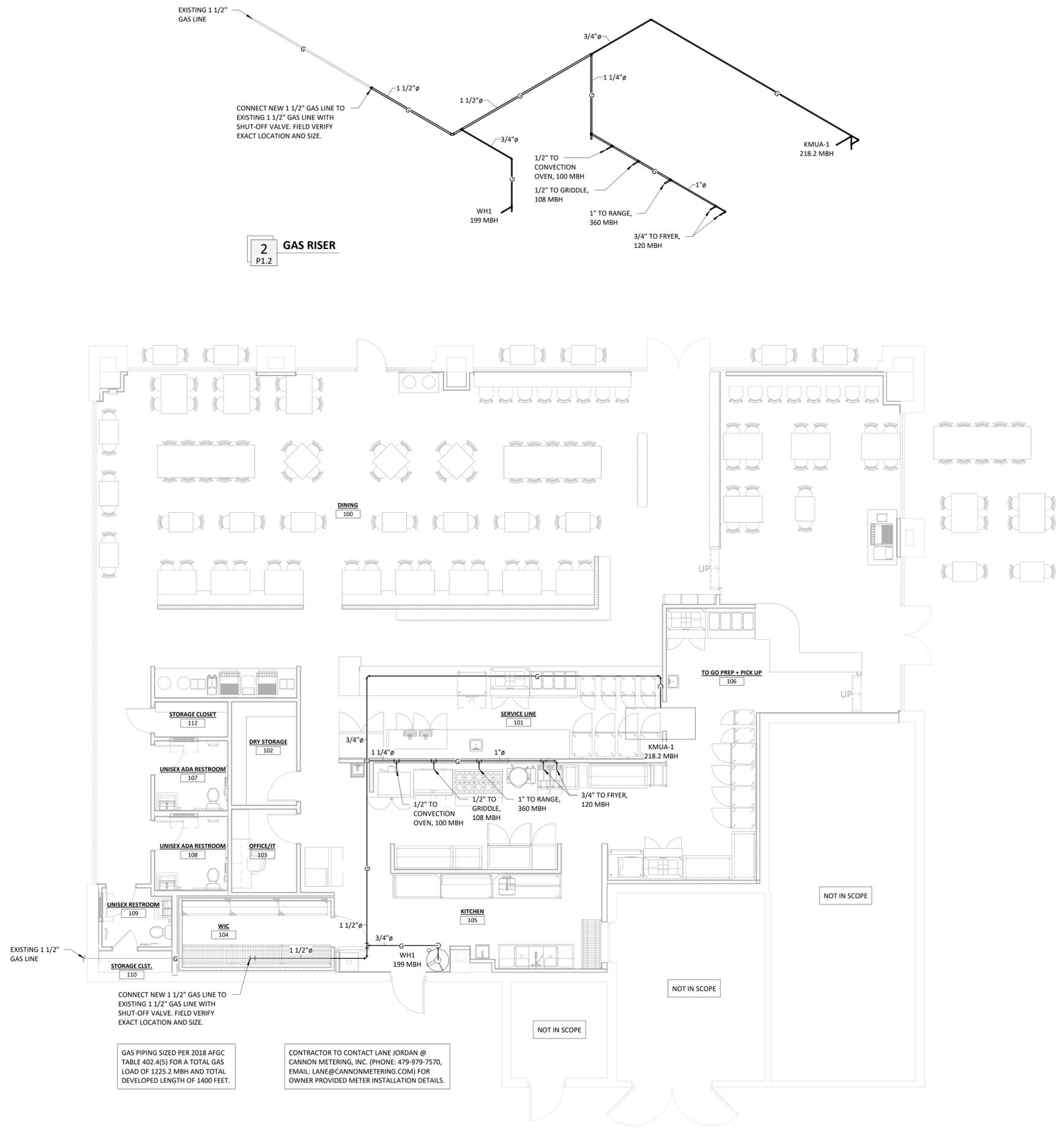
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GAS PIPING SIZED PER 2018 AFGC TABLE 402.4(5) FOR A TOTAL GAS LOAD OF 1225.2 MBH AND TOTAL DEVELOPED LENGTH OF 1400 FEET.

CONTRACTOR TO CONTACT LANE JORDAN @ CANNON METERING, INC. (PHONE: 479-979-7570, EMAIL: LANE@CANNONMETERING.COM) FOR OWNER PROVIDED METER INSTALLATION DETAILS.

**1**  
P1.2  
**GAS PIPING PLAN**  
3/16" = 1'-0"

**2**  
P1.2  
**GAS RISER**



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**Engineer Name** - ANDREW D FINNEGAN  
**Engineer Number** - 15550

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REVISIONS	
NO.	DESCRIPTION

**Drawing Size:** 24 x 36  
**Project #:** 24136  
**Drawn By:** ADF  
**Checked By:** ADF

**Title:**  
GAS PIPING PLAN AND RISER

**Sheet Number:**  
**P1.2**

**Date:** 04/11/2025

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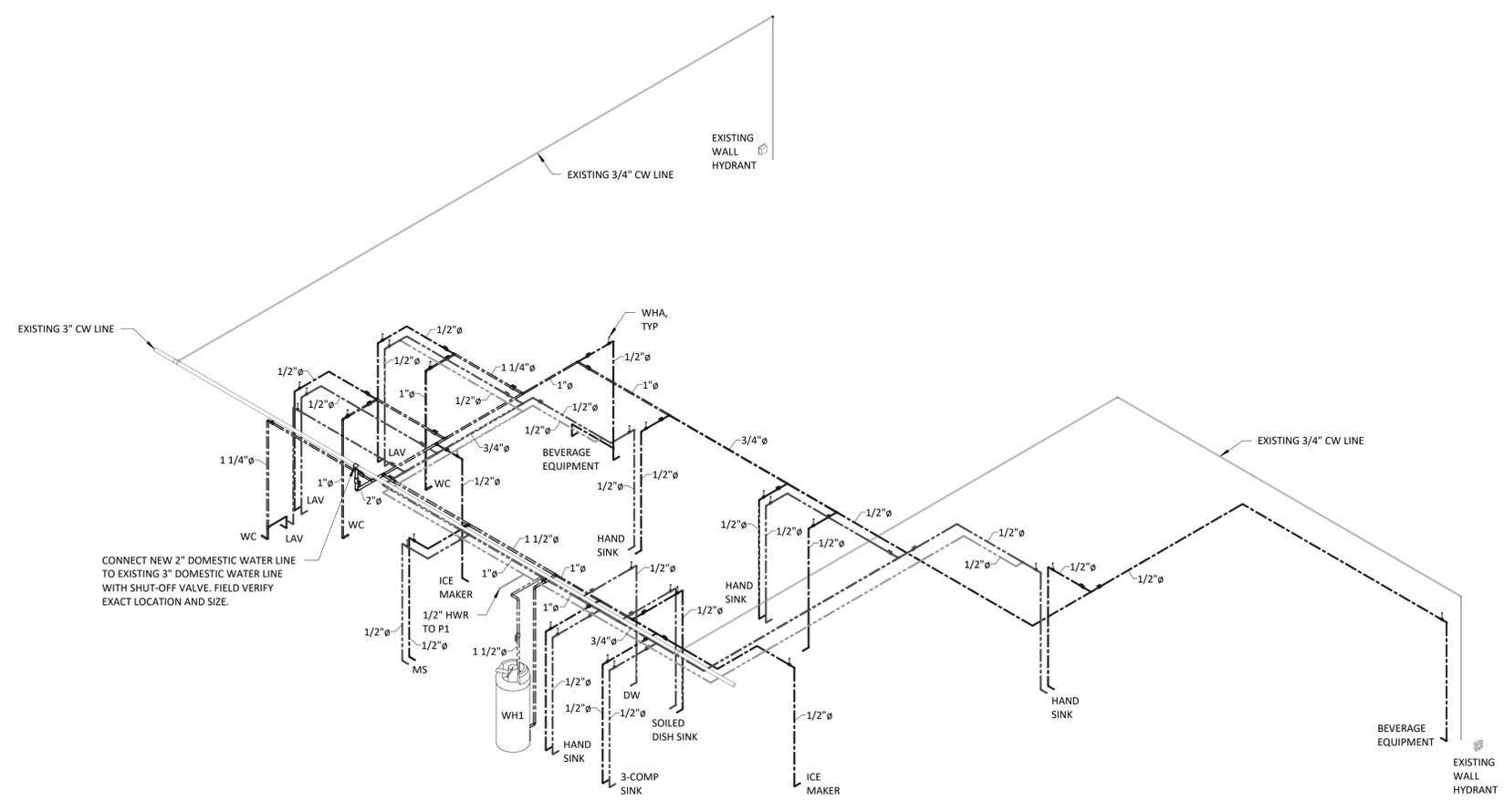
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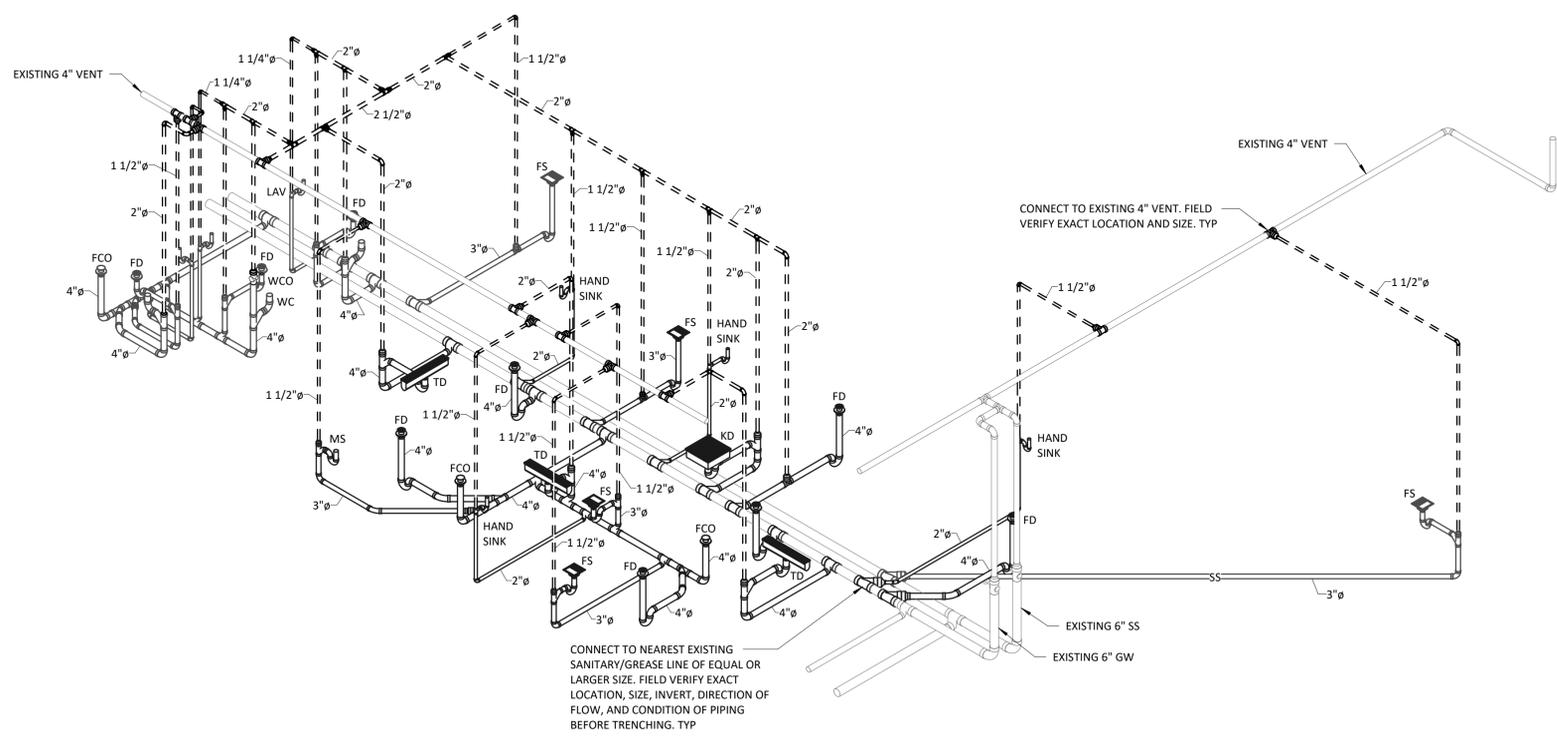
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**2 WATER RISER**  
P1.3



**1 DWV RISER**  
P1.3

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04/11/2025  
**Engineer Name** - ANDREW D FINNEGAN  
**Engineer Number** - 15650

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**REVISIONS**

NO.	DATE	DESCRIPTION

**Drawing Size:** 24 x 36  
**Project #:** 24136  
**Drawn By:** ADF  
**Checked By:** ADF

**Title:**  
PLUMBING RISERS

**Sheet Number:**  
P1.3

**Date:** 04/11/2025

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PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE	MANUFACTURER	MODEL NUMBER	BRANCH SIZES (MIN.)				DESCRIPTION
				CW	HW	WASTE	VENT	
LAV	LAVATORY	AMERICAN STANDARD	0355.012 LUCERNE	1/2"	1/2"	2"	1-1/4"	WALL MOUNT SINK, 4" CENTERS, VITREOUS CHINA, FRONT OVERFLOW, COLOR: WHITE. FAUCET: AMERICAN STANDARD 5502.175, WITH WRIST BLADE HANDLES AND GRID STRAINER DRAIN, 0.5 GPM. PROVIDE TRUBRO LAV GUARD 2 E-Z SERIES PROTECTIVE PIPE COVERS ON ALL EXPOSED PIPING. PROVIDE MIXING VALVE SET FOR 105°F DISCHARGE.
MS	MOP SINK	FIAT	MSB2424	1/2"	1/2"	3"	1-1/2"	24"x24"x10" MOLDED STONE MOP BASIN. PROVIDE WITH NO. 830-AA FAUCET WITH INTEGRAL VACUUM BREAKER, NO. 832-AA HOSE AND BRACKET, NO. 1453-BB FLOOR STRAINER, AND NO. 889-CC MOP HANGER.
WC	WATER CLOSET	AMERICAN STANDARD	3461.001 MADERA	1"	---	4"	2"	FLOOR MOUNT, FLUSH VALVE, 12" ROUGH-IN, COLOR: WHITE, VITREOUS CHINA, ELONGATED BOWL, OPEN FRONT SEAT LESS COVER, 1-1/2" TOP SPUD. 17" RIM HEIGHT FOR ADA COMPLIANCE. AMERICAN STANDARD 6047.161 1.6 GPF MANUAL FLUSH VALVE. MOUNT CONTROLS ON ACCESSIBLE SIDE OF TOILET.

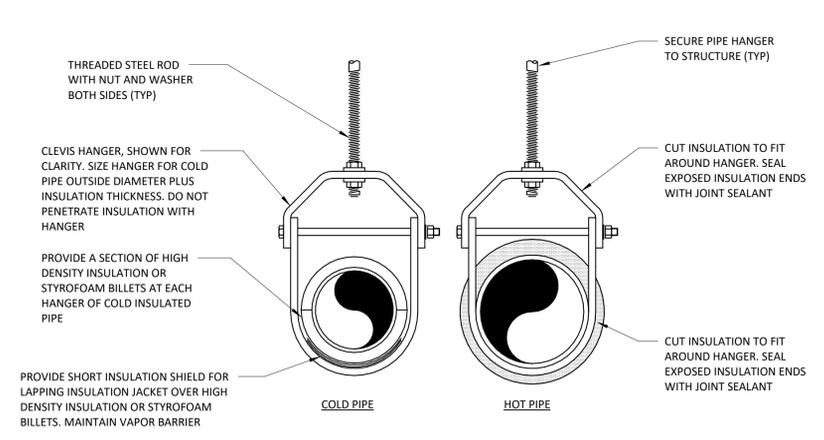
SPECIALTY PLUMBING FIXTURE SCHEDULE				
MARK	FIXTURE	MANUFACTURER	MODEL NUMBER	DESCRIPTION
---	SHUT-OFF VALVE	ZURN WILKINS	850XL	LEAD FREE FULL PORT BRONZE BALL VALVE WITH PLASTIC JACKETED LEVER TYPE HANDLE.
TMV	THERMOSTATIC MIXING VALVE	ZURN WILKINS	ZW3870XLT-4P	LEAD FREE, ASSE 1070 COMPLIANT, +/-3°F UP TO 115°F, LOW LEAD CAST BRONZE BODY WITH INTREGRAL CHECK VALVES AND STRAINER SCREEN.
TP	TRAP PRIMER	ZURN	Z1022-XL	SANI-GARD AUTOMATIC TRAP PRIMER, ALL BRONZE BODY WITH INTEGRAL VACUUM BREAKER, NON-LIMING INTERNAL OPERATING PISTON, STAINLESS STEEL SPRING, REMOVABLE BRONZE SEAT WITH METERING ORIFICE, AND SEALED BRONZE COVER.
WHA	WATER HAMMER ARRESTOR	ZURN WILKINS	1260XL	CERTIFIED TO NSF/ANSI 372, ASSE 1010 AND ANSI A112.26.1 COMPLIANT, COPPER BODY WITH A LOW LEAD BRASS HEXAGONAL MALE PIPE THREADED INLET, AN ACETAL, POLYCARBONATE OR LOW LEAD BRASS PISTON, EPDM O-RINGS AND LEAD FREE SOLDER. FACTORY PRE-CHARGED AND SEALED.

DRAIN / CLEANOUT / HOSE BIBB / HYDRANT SCHEDULE				
MARK	FIXTURE	MANUFACTURER	MODEL NUMBER	DESCRIPTION
FCO	FLOOR CLEANOUT	ZURN	ZN1400	DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED POLISHED NICKEL BRONZE LIGHT DUTY TOP, ADJUSTABLE TO FINISHED FLOOR.
FD	FLOOR DRAIN	ZURN	ZN415B	CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, "TYPE B" POLISHED NICKEL BRONZE, LIGHT DUTY STRAINER.
FPWH	FREEZE PROOF WALL HYDRANT	ZURN	Z1320	ANTI-SIPHON, NON-FREEZE, AUTOMATIC DRAINING WALL HYDRANT WITH INTEGRAL BACKFLOW PREVENTER, COPPER CASING, ALL BRONZE INTERIOR PARTS WITH 1/2 TURN CERAMIC DISC CARTRIDGE AND COMBINATION 3/4" FEMALE SOLDER AND 3/4" MALE PIPE THREAD INLET, STAINLESS STEEL BOX AND HINGED COVER WITH OPERATING KEY LOCK.
FS	FLOOR SINK	ZURN	Z1750	12"x12"x6" DEEP, 16 GAGE, ALL TYPE 304 STAINLESS STEEL LIGHT-DUTY SANI-FLOOR RECEPTOR WITH ANTI-SPLASH STAINLESS STEEL INTERIOR DOME STRAINER. REFERENCE KITCHEN EQUIPMENT PLANS FOR GRATE REQUIREMENTS.
KD	KETTLE DRAIN	ZURN	Z1761	24 5/16" SQUARE KETTLE DRAIN W/ 8" SUMP DEPTH, 14 GAGE TYPE 304 STAINLESS STEEL, LOOSE SET FULL GRATE.
TD	TRENCH DRAIN	ZURN	Z667	6" WIDE TOP SECTIONAL TRENCH DRAIN, DURA-COATED CAST IRON BOTTOM OUTLET SECTION, VERTICALLY AND HORIZONTALLY ADJUSTABLE CAST IRON DRAIN SECTION HAVING SEEPAGE PAN AND MEMBRANE CLAMP. BOTH 15" LONG OUTLET MODULE SECTION AND EXTENSION MODULES ARE COMPLETE WITH LOOSE MEDIUM-DUTY GRATE.
WCO	WALL CLEANOUT	ZURN	ZS1468	ROUND STAINLESS STEEL WALL ACCESS COVER COMPLETE WITH SECURING SCREW AND BRONZE RAISED HEX HEAD PLUG.

WATER HEATER SCHEDULE							
MARK	MANUFACTURER	MODEL	TANK SIZE (GAL)	HEATING INPUT (MBH)	RECOVERY RATE (GPH)	TEMP RISE (°F)	V/PH/HZ
WH1	A.O. SMITH	BTH-199	100	199	294	80	120/1/60

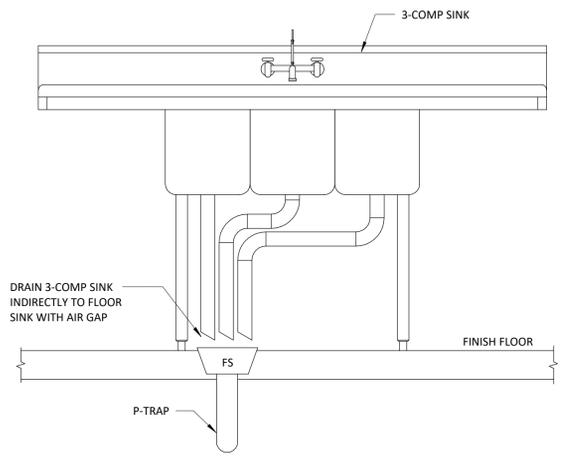
- GENERAL INFORMATION:
- 140 DEG. F OUTLET TEMPERATURE.
- NOTES:
- PROVIDE AMTRLO (OR EQUAL) EXPANSION TANK AND DRAIN PAN SIZED PER MANUFACTURER'S RECOMMENDATIONS.
  - MOUNT WATER HEATER ON HEAVY DUTY STAND.
  - PROVIDE WITH CONCENTRIC VENT KIT.

PUMP SCHEDULE					
MARK	MANUFACTURER	MODEL	FLOW RATE (GPM)	HEAD (FT)	DESCRIPTION
P1	BELL & GOSSETT	ECOCIRC 19-16	1.0	5	STAINLESS STEEL, HIGH EFFICIENCY, VARIABLE SPEED WET ROTOR CIRCULATOR WITH ELECTRONICALLY COMMUTATED MOTOR. CERTIFIED TO NSF/ANSI 61. PROVIDE WITH AQUASTAT.

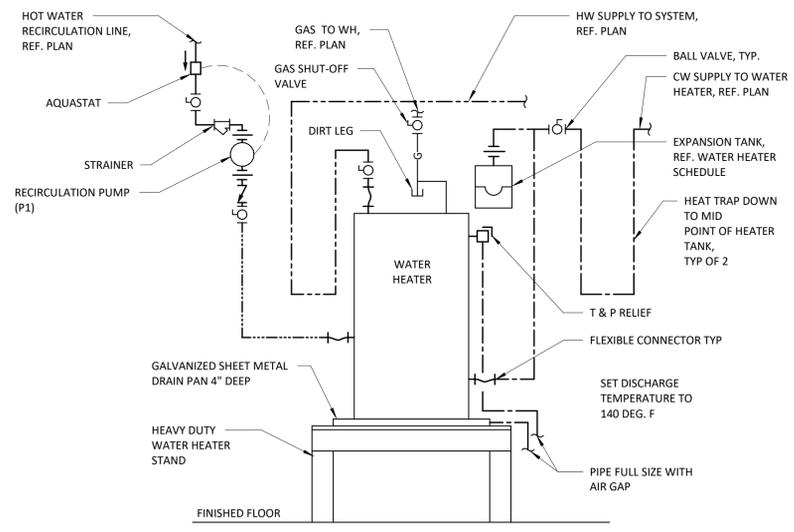


REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO STRUCTURE, AND HANGER SPACING.

**2** P2.0 INSULATED PIPE HANGER N.T.S.



**3** P2.0 3-COMP SINK DETAIL N.T.S.



**1** P2.0 WATER HEATER N.T.S.

PLUMBING SYMBOLS	
(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)	
SYMBOL	DESCRIPTION
---	DOMESTIC COLD WATER
----	DOMESTIC HOT WATER
-----	DOMESTIC HOT WATER RETURN
SS	SANITARY SEWER
GW	GREASE WASTE
FW	FILTERED WATER
RO	REVERSE OSMOSIS WATER
A	COMPRESSED AIR
---	VENT
T	TEMPERED WATER
G	NATURAL GAS
LP	LIQUID PROPANE
CD	CONDENSATE
○ ○ ○	PIPE: RISE / FALL / TEE DOWN
●	SHUT-OFF VALVE
⊥	SHUT-OFF VALVE IN VERTICAL
⊥	UNION
⊥	CAP
⊥	VACUUM RELIEF VALVE
○	FLOOR CLEANOUT
○	FLOOR DRAIN, ROUND
⊠	FLOOR DRAIN, SQUARE
⊠	FLOOR SINK, FULL/HALF GRATE
⊠	CHECK VALVE
⊠	DOUBLE CHECK VALVE
⊠	REDUCED PRESSURE ZONE
⊠	GAS PRESSURE REGULATOR
⊠	GAS VALVE
⊠	AUTOMATIC GAS VALVE
⊠	FREEZE PROOF WALL HYDRANT
⊠	HOSE BIBB
⊠	WALL CLEANOUT
⊠	PUMP
⊠	EXISTING ITEMS TO BE REMOVED OR RELOCATED (SHOWN HATCHED AND NOTED)
ANNOTATION	
①	PLUMBING PLAN KEYNOTE
XXX-1	PLUMBING EQUIPMENT DESIGNATION
⊠	CONNECTION POINT OF NEW WORK TO EXISTING
⊠	DETAIL REFERENCE: UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER
⊠	SECTION CUT DESIGNATION
ABBREVIATIONS	
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
EC	ELECTRICAL CONTRACTOR
ETR	EXISTING TO REMAIN
GC	GENERAL CONTRACTOR
I.E.	INVERT ELEVATION
IN WC	INCHES OF WATER COLUMN
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MIN	MINIMUM
PC	PLUMBING CONTRACTOR
RC	REFRIGERATION CONTRACTOR
REF	REFERENCE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VBF	VENT BELOW FLOOR
VBG	VENT BELOW GRADE
VTR	VENT THRU ROOF

PLUMBING GENERAL NOTES	
1.	NOTES APPLY TO ALL PLUMBING SHEETS.
2.	EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK.
3.	PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
4.	EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
5.	DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. REVIEW THE GENERAL NOTES AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES.
6.	PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS.
7.	PROVIDE TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
8.	PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
9.	REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
10.	DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
11.	INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE. INSTALL EXPOSED PIPING TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE LOCATIONS OF PIPING IN EXPOSED AREAS WITH ARCHITECT.
12.	COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTINGS, ETC. WHERE REQUIRED AND AS NOTED ON PLANS.
13.	COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
14.	COORDINATE SEWER AND WATER CONNECTIONS WITH CIVIL AND AHJ. PROVIDE PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER AS SHOWN OR REQUIRED BY AHJ. VERIFY INVERT AND SLOPE OF INCOMING SANITARY SEWER BEFORE TRENCHING.
15.	REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULES FOR ALL PIPING AND PIPE SIZES NOT SHOWN ON PLAN.
16.	SANITARY AND STORM SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPE SMALLER THAN 3" DIAMETER AND 1/8" PER FOOT FALL FOR PIPE 3" DIAMETER AND LARGER.
17.	ALL SEWER PIPING BELOW SLAB TO BE 2" DIAMETER MINIMUM.
18.	PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES AND CLEANOUTS; AND NOT ABOVE AN ACCESSIBLE CEILING.
19.	PROVIDE TRAP GUARDS OR TRAP SEAL PRIMERS AND 1/2" COPPER TUBING CONNECTION TO ALL FLOOR DRAINS AS SHOWN OR AS REQUIRED BY AHJ. CONTRACTOR SHALL VERIFY REQUIREMENTS.
20.	INSTALL VTR'S, EXHAUST FANS, AND FLUES A MINIMUM 5'-0" FROM PARAPET OR OUTSIDE WALL AND 10'-0" MINIMUM FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.
21.	PROVIDE INSULATION ON HOT AND COLD WATER PIPING, ROOF DRAIN BODIES, AND HORIZONTAL ROOF DRAIN PIPING.
22.	INSTALL WATER PIPE ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.
23.	WHEN DEEP FROST LOCATIONS ARE ENCOUNTERED, ROUTE SANITARY LINES UNDER BUILDING AS MUCH AS POSSIBLE.
24.	PROVIDE PVC SLEEVE FOR ALL COLD/HOT WATER FLOOR PIPE PENETRATIONS. MAKE SLEEVE LARGE ENOUGH FOR INSULATION. SEAL WITH GRAY MASTIC AND ENSURE OF NO WATER PENETRATIONS.
25.	PROVIDE FIRE SEAL WHERE PIPES PENETRATE FIRE RATED ASSEMBLY.
26.	PROVIDE AND INSTALL WATTS BA VACUUM BREAKER ON ANY THREADED EXTERIOR OR INTERIOR FAUCETS.
27.	VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
28.	ALL WATER SHUT-OFF VALVES SHALL BE "BALL LOCK" TYPE. PROVIDE SHUT-OFF VALVES AT EACH TERMINATION POINT OF ASSOCIATED EQUIPMENT.
29.	WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED BY AHJ AND/OR CODE OR AS RECOMMENDED BY EQUIPMENT MANUFACTURERS.
30.	CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
31.	FIELD ADJUST WATER CLOSET FLUSHING MECHANISM FOR PROPER FLUSHING OPERATION.
32.	PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.

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**REVISIONS**

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Title: PLUMBING NOTES, DETAILS, AND SCHEDULES  
Sheet Number: **P2.0**  
Date: 04/11/2025

PLUMBING SPECIFICATIONS

1. GENERAL

1.1 GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. THE CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECTS ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND/OR OWNER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

1.2 INSPECTION OF SITE

PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

1.3 MATERIAL AND WORKMANSHIP

PROVIDE NEW MATERIAL, EQUIPMENT, AND APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND FREE FROM ANY DEFECTS. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT NECESSARILY INTENDED TO DESIGNATE THE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF THE TRIM GOVERN MODEL NUMBERS.

WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER. WORKMANSHIP SHALL BE THE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES AND LAWS.

THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL, ETC. ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, AND SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL, MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTED.

REMOVE FROM THE PREMISES WASTE MATERIAL PRESENT AS A RESULT OF WORK, INCLUDING CARTONS, GRATING, PAPER, STICKERS, AND/OR EXCAVATION MATERIAL NOT USED IN BACKFILLING, ETC. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT A NEAT AND CLEAN INSTALLATION AT THE TERMINATION OF THE WORK.

REPAIR OR REPLACE PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO THE SATISFACTION OF AUTHORITIES AND REGULATIONS HAVING JURISDICTION.

1.4 COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. THE CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED, KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

1.5 ORDINANCES AND CODES

WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES HAVING JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL A.H.I. INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM), AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THEIR REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.

PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN, PAY FOR, AND FURNISH CERTIFICATES OF INSPECTION TO THE OWNER. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF THE LAW.

1.6 PROTECTION OF EQUIPMENT AND MATERIALS

STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, AND CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND AS APPROVED BY OWNER.

KEEP PREMISES CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC., SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK.

PLUG OR CAP OPEN ENDS OF PIPING SYSTEMS WHILE STORED OR INSTALLED DURING CONSTRUCTION WHEN NOT IN USE THE PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS.

1.7 SUBSTITUTIONS

THE BASE BID SHALL INCLUDE ONLY THE PRODUCTS FROM MANUFACTURERS SPECIFICALLY NAMED IN THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTION WILL BE CONSIDERED PRIOR TO RECEIPT OF BIDS UNLESS WRITTEN REQUEST FOR APPROVAL TO BID HAS BEEN RECEIVED BY THE ENGINEER AT LEAST TEN CALENDAR DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. EACH SUCH REQUEST SHALL INCLUDE THE NAME OF THE MATERIAL OR EQUIPMENT FOR WHICH IT IS TO BE SUBSTITUTED AND A COMPLETE DESCRIPTION OF THE PROPOSED SUBSTITUTE INCLUDING DRAWINGS, CUTS, PERFORMANCE AND TEST DATA AND OTHER INFORMATION NECESSARY FOR AN EVALUATION. A STATEMENT SETTING FORTH CHANGES IN OTHER MATERIALS, EQUIPMENT OR OTHER WORK THAT INCORPORATION OF THE SUBSTITUTE WOULD REQUIRE SHALL BE INCLUDED. THE BURDEN OF PROOF OF THE MERIT OF THE PROPOSED SUBSTITUTE IS UPON THE PROPOSER. THE ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL TO BID OF A PROPOSED SUBSTITUTION SHALL BE FINAL.

THE TERMS "APPROVED", "APPROVED EQUAL", AND "EQUAL" REFER TO APPROVAL BY THE ENGINEER AS AN ACCEPTABLE ALTERNATE BID. NO SUBSTITUTIONS WILL BE CONSIDERED THAT ARE NOT BID AS AN ALTERNATE. NO MATERIAL SUBSTITUTIONS SHALL BE CONSIDERED FOR APPROVAL PRIOR TO AWARD OF CONTRACT.

COORDINATE AND VERIFY WITH OTHER TRADES WHETHER OR NOT THE SUBSTITUTED EQUIPMENT CAN BE INSTALLED AS SHOWN ON THE CONSTRUCTION DRAWINGS WITHOUT MODIFICATION TO ASSOCIATED SYSTEMS OR ARCHITECTURAL OR ENGINEERING DESIGN. INCLUDE ADDITIONAL COSTS FOR ARCHITECTURAL AND ENGINEERING DESIGN FEES IN BID IF DRAWING MODIFICATIONS ARE REQUIRED BECAUSE OF SUBSTITUTED EQUIPMENT.

1.8 OPERATION AND MAINTENANCE INSTRUCTIONS

COLLECT AND COMPIL A COMPLETE BROCHURE OF FIXTURES, MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL AND MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, AND DESCRIPTIVE LITERATURE FURNISHED BY THE MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS THE PROJECT NAME, DATE, OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUBCONTRACTOR, AND AN INDEX OF CONTENTS.

SUBMIT COPIES OF LITERATURE BOUND IN APPROVED BINDERS TO THE ARCHITECT AND OWNER AT THE TERMINATION OF THE WORK. PAPER CLIPS, STAPLES, RUBBER BANDS, AND MAILING ENVELOPES ARE NOT CONSIDERED APPROVED BINDERS. FINAL APPROVAL OF PLUMBING SYSTEMS WILL BE WITHHELD UNTIL THIS EQUIPMENT BROCHURE IS DEEMED COMPLETE BY THE ARCHITECT, ENGINEER, AND OWNER.

1.9 SPARE PARTS

FURNISH TO OWNER, WITH RECEIPT, THE SPARE PARTS TO INCLUDE FAUCET WASHERS AND O-RINGS, FLUSHOMETER REPAIR KITS, AND WATER CLOSET TANK REPAIR KITS FOR THE FIXTURES FURNISHED FOR THIS PROJECT.

1.10 WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN, OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

1.11 CUTTING AND PATCHING

PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

1.12 ROUGH-IN

COORDINATE WITHOUT DELAY ROUGHING-IN WITH GENERAL CONSTRUCTION. CONCEAL PIPING AND CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS WHERE OTHERWISE SHOWN.

1.13 STRUCTURAL STEEL

STRUCTURAL STEEL USED FOR PIPE SUPPORTS, EQUIPMENT SUPPORTS, ETC., SHALL BE NEW, CLEAN, AND CONFORM TO ASTM DESIGNATION A-36.

SUPPORT PLUMBING AND MECHANICAL EQUIPMENT AND PIPING FROM THE BUILDING STRUCTURE. DO NOT SUPPORT PLUMBING EQUIPMENT FROM CEILINGS, OTHER MECHANICAL OR ELECTRICAL COMPONENTS, AND OTHER NON-STRUCTURAL ELEMENTS.

1.14 ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS WHERE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION, AND COLOR BEFORE ORDERING.

1.15 PENETRATIONS

SEAL FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATER AND WEATHER TIGHT WITH APPROPRIATE NON-SHRINK, NON-HARDENING COMMERCIAL CONSTRUCTION SEALANT. SEAL ROOF PENETRATIONS WITH FOUR POUND PER SQUARE FOOT LEAD FLASHING. PROVIDE A SLEEVE, AND SEAL NON-FIRE-RATED FLOOR AND WALL PENETRATIONS WITH FIBERGLASS PACKING AND SILICONE CAULK (FOR ACOUSTICAL INSULATION).

COORDINATE FIRE RATING REQUIREMENTS AND LOCATIONS WITH THE ARCHITECT. SEAL PENETRATIONS OF FIRE-RATED ASSEMBLIES WITH 3M HCP-25 FIRE BARRIER CAULK (PROVIDE THICKNESS AND METHOD AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN THE FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.

SEAL EXTERIOR WALL PENETRATIONS BELOW GRADE WITH CAST IRON WALL PIPES AND MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE/LINK SEAL, CALPICO, INC AND METRAFLEX.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER THE FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SLEEVES FOR VERTICAL PIPE PASSING THROUGH SLAB ON GRADE. SLEEVES SHALL BE SCHEDULE 40 PVC PIPE, TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATER-TIGHT WITH SILICONE CAULK.

2. MATERIALS

2.1 DOMESTIC WATER PIPING

ABOVE AND BELOW GRADE WATER PIPING SHALL BE PEX TUBING CONFORMING TO ASTM F877 CROSS-LINKED POLYETHYLENE TUBING HOT AND COLD WATER DISTRIBUTION SYSTEMS, ASTM F876 CROSS-LINKED POLYETHYLENE TUBE, ASTM F1807 FITTING AND ASTM F2159 FITTINGS, COMPLY WITH NSF STANDARD 14 AND 61. PEX TUBING SHALL BE WATTS WATERPEX CROSS-LINKED POLYETHYLENE OR EQUAL. ALL PEX TUBING BELOW GRADE SHALL BE SLEEVED WITH PVC PIPE.

FITTINGS SHALL BE MECHANICAL CRIMP FITTINGS IN COMPLIANCE WITH ASTM F1807 AND F2159. PEX FITTINGS SHALL BE WATTS BRASS CRIMPING FITTINGS USING EITHER WATTS COPPER CRIMPINGS OR STAINLESS STEEL CINCHCLAMP OR EQUAL, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ABOVE AND BELOW GRADE WATER PIPING SHALL BE TYPE "L" AND "M" HARD DRAWN SEAMLESS COPPER TUBING CONFORMING TO ASTM B88.

COPPER UNIONS SHALL BE CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACE AND SOLDER-JOINT. JOINING MATERIAL SHALL BE ASTM B813 WATER-FLUSHABLE, LEAD-FREE FLUX ALLOY SOLDER.

2.2 FILTERED WATER PIPING

ABOVE AND BELOW GRADE FILTERED WATER PIPING SHALL BE CPVC TUBING CONFORMING TO ASTM D2846 AND CSA B137 CHLORINATED POLY (VINYL CHLORIDE) PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS, ASTM D1784 RIGID AND CHLORINATED PVC COMPOUNDS, ASTM F493 SOLVENT CEMENTS, COMPLY WITH NSF STANDARD 14 AND 61. CPVC TUBING SHALL BE FLOWGUARD GOLD CPVC CTS OR EQUAL.

FITTINGS SHALL BE SOCKET TYPE JOINTS IN COMPLIANCE WITH ASTM D2846 AND CSA B137. CPVC FITTINGS SHALL BE FLOWGUARD GOLD CPVC CTS FITTINGS OR EQUAL. JOINING MATERIAL SHALL BE ASTM F493 SOLVENT CEMENT, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ABOVE AND BELOW GRADE FILTERED WATER PIPING SHALL BE TYPE "L" AND "M" HARD DRAWN SEAMLESS COPPER TUBING CONFORMING TO ASTM B88.

COPPER UNIONS SHALL BE CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACE AND SOLDER-JOINT. JOINING MATERIAL SHALL BE ASTM B813 WATER-FLUSHABLE, LEAD-FREE FLUX ALLOY SOLDER.

2.3 SOIL, WASTE, AND VENT PIPING

ABOVE AND BELOW GRADE SOIL, WASTE, AND VENT PIPING SHALL BE PVC PLASTIC, SCHEDULE 40 DWV PIPE CONFORMING TO ASTM D2665 WITH PLAIN ENDS. CELLULAR (FOAM) CORE PVC NOT ALLOWED. INSTALL PER ASTM D2665 AND ASTM D2321.

FITTINGS SHALL BE PVC SOCKET-TYPE DWV PIPE FITTINGS; ASTM D2665 MADE TO ASTM D3311 DRAIN, WASTE, AND VENT PATTERNS.

ABOVE AND BELOW GRADE SOIL, WASTE, AND VENT PIPING SHALL BE HUB-AND-SPIGOT CAST-IRON SOIL PIPE AND FITTINGS CONFORMING TO ASTM A74 WITH ASTM C564 RUBBER GASKETS. INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK" CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS".

ABOVE GRADE SOIL, WASTE, AND VENT PIPING SHALL BE ALLOWED TO BE COPPER DRAINAGE TUBING CONFORMING TO ASTM B306 AT PLUMBING CONTRACTOR'S OPTION.

2.4 INDIRECT AND CONDENSATE DRAIN LINES

PROVIDE HARD DRAWN, TYPE "M" OR "L" COPPER PIPE FOR ALL CONDENSATE DRAIN PIPING FROM COOLER AND FREEZER EVAPORATORS. PROVIDE HEAT TRACE FOR ALL CONDENSATE DRAIN PIPING LOCATED IN FREEZERS, AND ROUTE TO FLOOR DRAIN IN BUILDING.

PROVIDE PVC PIPE FOR ALL OTHER INDIRECT AND CONDENSATE DRAIN PIPING FROM HVAC, PLUMBING, AND BEVERAGE EQUIPMENT, AND ROUTE TO FLOOR DRAIN IN BUILDING.

2.5 GAS PIPING

GAS PIPING SHALL BE SCHEDULE 40 BLACK CARBON STEEL CONFORMING TO ASTM A53. PIPING 2" AND SMALLER SHALL BE WELDED OR THREADED WITH MALLEABLE IRON FITTINGS. PIPING 2-1/2" AND LARGER SHALL BE WELDED WITH BUTT-WELDED FITTINGS.

FITTINGS SHALL CONFORM TO ASME B16.3, MALLEABLE IRON OR ASTM A234, FORGED STEEL WELDED TYPE.

PROVIDE SHUT-OFF VALVE, DIRT LEG, AND UNION AT EACH ROOFTOP UNIT. PAINT ALL GAS PIPING EXPOSED TO WEATHER WITH ONE COAT OF PRIMER, AND TWO COATS OF RUST-PROOF PAINT. COLOR SHALL MATCH BUILDING COLORS. COORDINATE WITH OWNER'S CONSTRUCTION MANAGER.

PROVIDE TREATED WOOD BLOCKING 6X6X12, 8'-0" OC MAX WITH GALVANIZED PIPE STRAP, 1 1/4" ZINC COATED LAG SCREWS, AND RUBBER WALKPAD ADHERED TO ROOF.

2.6 FLASHING

SHEET LEAD, 4 POUNDS PER SQUARE FOOT, MINIMUM.

2.7 INSULATION

2.7.1 DOMESTIC COLD WATER (WITHIN BUILDING)

COPPER PIPING: 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTeed, OWENS-CORNING, OR ARMSTRONG. (SEE BELOW FOR PLUMBING FITTING INSULATION REQUIREMENTS.)

PEX TUBING: NO INSULATION REQUIRED.

EXCEPTION: FOR NON-RECIRCULATING HOT WATER SYSTEM, PROVIDE 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTeed, OWENS-CORNING, OR ARMSTRONG ON THE FIRST 8 FEET OF INLET PIPING AT WATER HEATER.

CPVC TUBING: NO INSULATION REQUIRED.

2.7.2 DOMESTIC HOT WATER

COPPER PIPING: 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTeed, OWENS-CORNING, OR ARMSTRONG. (SEE BELOW FOR PLUMBING FITTING INSULATION REQUIREMENTS.)

PEX TUBING: 1/2" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTeed, OWENS-CORNING, OR ARMSTRONG. (SEE BELOW FOR PLUMBING FITTING INSULATION REQUIREMENTS.)

FOR HOT WATER PIPING BEING SERVED BY SYSTEM WITH RECIRCULATING PUMP, PROVIDE 1" WALL ONE-PIECE FIBERGLASS COVERING HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 WITH FIRE RESISTANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTeed, OWENS-CORNING, OR ARMSTRONG. (SEE BELOW FOR PLUMBING FITTING INSULATION REQUIREMENTS.)

2.7.3 INDIRECT AND CONDENSATE DRAIN PIPING (WITHIN BUILDING)

COPPER PIPING: PROVIDE 1" FLEXIBLE UNICELLULAR INSULATION BY ARMACELL.

PVC PIPING: NO INSULATION REQUIRED.

FOR PIPING AT HANGERS, PROVIDE 8" LONG SECTIONS OF HIGH DENSITY, HIGH TEMPERATURE CALCIUM SILICATE BY JOHNS-MANVILLE, FIBERGLASS BY KNAUF, OR 8" LONG STYROFOAM BILLETS BY DOW. INSULATION SHALL BE CONTINUOUS ALONG THE PIPE SURFACE, EXCEPT AT VALVES, UNIONS, AND WHERE PIPING IS EXPOSED AT FIXTURES.

FOR HOT AND COLD WATER PIPING EXPOSED, CONCEALED IN WALLS, AND/OR INSTALLED INSIDE MASONRY UNITS OF WALLS, COVER FITTINGS WITH ZESTON, KNAUF, OR EQUAL ONE-PIECE PVC PREMOLDED INSULATING COVERS. FITTING COVERS, JACKETS, AND ADHESIVES SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPMENT RATING OF 50 PER ASTM E84. AT ALL ELBOWS AND TEES, FILL VOIDS BETWEEN COVERS AND PIPING WITH FIBERGLASS INSULATION AND TAPE JOINTS. INSTALL PIPE INSULATION IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE PREMOLDED INSULATING FITTINGS ARE NOT APPROVED BY LOCAL AUTHORITIES, MITER INSULATION AT FITTINGS.

3. PIPING INSTALLATION

GENERAL: CLEAN PIPE THOROUGHLY PRIOR TO INSTALLATION. BEAM ENDS OF PIPE TO REMOVE BURRS. CUT PIPE ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB. INSTALL WITH ADEQUATE CLEARANCE FOR INSTALLATION OF COVERINGS WHERE REQUIRED. PIPE SHALL NOT BE SPRUNG OR BENT. NEATLY ALIGN PIPE, CONNECT IT SECURELY, AND SUPPORT IT FROM THE BUILDING, AND SUPPORT IT FROM THE BUILDING STRUCTURE WITH HANGERS AS SPECIFIED BELOW. PROVIDE CHROME-PLATED ESCUTCHEONS ON PIPES PASSING THROUGH CEILINGS, FLOORS, OR WALLS OF FINISHED SPACES. RUN PIPES FREELY THROUGH FLOOR AND WALL PENETRATIONS USING PIPE SLEEVES. DO NOT GROUT IN PLACE UNLESS REQUIRED FOR STRUCTURAL FIRE INTEGRITY. INSTALL PIPE CONCEALED IN FINISHED SPACES WHEREVER POSSIBLE. USE A DIELECTRIC UNION WHERE FERROUS AND COPPER PIPE CONNECT. DIELECTRIC UNION SHALL HAVE A ZINC STEEL BODY, A THREADED NYLON INSERT, AND INSULATION PRESSURE GASKET. NO FERROUS METAL-TO-COPPER CONNECTION MADE WITHOUT INSULATING UNIONS WILL BE ALLOWED.

HANGERS & SUPPORTS: PIPE HANGERS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS BY B-LINE OR EQUAL BY ANVIL, MICHIGAN, TRUSCON, OR UNISTRUT. CONNECT HANGERS TO THE STRUCTURE WITH SIDE BEAM CONNECTORS AND ALL THREAD HANGER RODS. PROVIDE ENGINEERED SUPPORT STRUTS BETWEEN JOISTS AND OTHER STRUCTURAL MEMBERS AS REQUIRED TO PROVIDE A RIGID HANGING.

DOMESTIC WATER: ARRANGE COLD, HOT, AND HOT WATER RECIRCULATION PIPING TO DRAIN AT THE LOWEST POINT IN EACH SYSTEM. INSTALL AT LEAST ONE PIPE UNION ADJACENT TO ALL SHUT-OFF VALVES, AT CONNECTION POINT OF EACH PIECE OF EQUIPMENT, AND ELSEWHERE IN THE SYSTEM WHERE REQUIRED TO ALLOW PROPER MAINTENANCE. PROVIDE UNIONS OF THE GROUND JOINT TYPE. MAKE ALLOWANCE FOR EXPANSION AND CONTRACTION WHERE REQUIRED BY THE INSTALLATION. WHERE WATER PIPING OCCURS IN EXTERIOR WALLS, HOLD PIPE AS CLOSE AS POSSIBLE TO THE INTERIOR FACE OF THE WALL AND INSTALL INSULATION BATT OR OTHER INSULATION (MINIMUM R-8) BETWEEN PIPING AND THE EXTERIOR WALL FACE.

4. EXTERIOR UTILITY CONNECTIONS

TERMINATE DOMESTIC WATER, STORM, AND SEWER LINES AT A POINT APPROXIMATELY FIVE FEET FROM THE BUILDING WALL, OR AS SHOWN ON THE DRAWINGS. MAKE CONNECTION TO THE VARIOUS SERVICES PROVIDED BY OTHERS AND COORDINATE CONNECTION REQUIREMENTS WITH CIVIL ENGINEER. VERIFY THAT INSTALLATION WILL TIE INTO THE VARIOUS SERVICE PROVIDED BY OTHERS AT THE INDICATED INVERT ELEVATION POINT PRIOR TO INSTALLATION. IF THE INSTALLATION WILL NOT TIE INTO THE INDICATED INVERT ELEVATION POINT WHILE MAINTAINING PROPER FALL, NOTIFY THE ARCHITECT AND CIVIL ENGINEER SO THAT AN ALTERNATIVE MAY BE DETERMINED.

PROVIDE SERVICE PIPING AND ACCESSORIES REQUIRED TO COMPLETE UTILITY CONNECTIONS THAT ARE NOT FURNISHED BY THE SERVING UTILITY.

5. TESTING AND INSPECTION

UPON COMPLETION OF EACH PHASE OF THE INSTALLATION, TEST EACH SYSTEM IN CONFORMANCE WITH LOCAL CODE REQUIREMENTS AND AS NOTED BELOW. FURNISH LABOR AND EQUIPMENT REQUIRED TO TEST PLUMBING WORK INSTALLED UNDER THIS CONTRACT, AND ASSUME COSTS INVOLVED IN MAKING THE TESTS, AND REPAIRING AND/OR REPLACING DAMAGE RESULTING THEREFROM.

NOTIFY THE ARCHITECT AND AUTHORITY HAVING JURISDICTION, THREE (3) WORKING DAYS PRIOR TO MAKING PLUMBING SYSTEM TESTS. LEAVE CONCEALED WORK UNCOVERED UNTIL THE REQUIRED TESTS HAVE BEEN COMPLETED, BUT IF NECESSARY DUE TO CONSTRUCTION PROCEDURE, TESTS ON PORTIONS OF THE WORK MAY BE MADE, AND WHEN SATISFACTORY, THE WORK MAY BE CONCEALED. TEST PIPING BEFORE INSULATION IS INSTALLED, AND BEFORE BACKFILL. PIPES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAK TIGHT. REPAIR OR REPLACE SYSTEM DEFECTS WITH NEW MATERIALS. CAULKING OF DEFECTIVE JOINTS, CRACK OR HOLES WILL NOT BE PERMITTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN ELIMINATED. MAKE TESTS IN THE PRESENCE OF THE ADMINISTRATIVE AUTHORITY AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

WORK SHALL BE INSPECTED FOR COMPLIANCE WITH CODES, ORDINANCES, REGULATIONS, AND ADHERENCE TO CONTRACT DOCUMENTS. PLUMBING CONTRACTOR SHALL SUPPLY OWNER WITH SIGNED FORMS OR PROOF OF ACCEPTANCE BY THE LOCAL AUTHORITY BEFORE CONTINUING FROM ONE STAGE TO ANOTHER. FINAL APPROVAL SHALL BE OBTAINED BEFORE FINAL PAYMENT IS MADE ON THE CONTRACT.

6. GUARANTEE

THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLATION, AND CONNECTION OF PLUMBING SYSTEMS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. BY SIGNING THE CONTRACT, THE PLUMBING CONTRACTOR ACKNOWLEDGES THAT HE HAS ACQUAINTED HIMSELF WITH THE SITE AND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND THE DRAWINGS AND SPECIFICATIONS PERTAINING THERETO, AND HE INDICATES THAT HE WILL COMPLY WITH THE REQUIREMENTS AND INTENT OF PERTINENT DOCUMENTS IN THE PERFORMANCE OF THE WORK.

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