## SHEET INDEX

NOTE: THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT ARE COMPOSED OF SETS OF DRAWINGS AND SPECIFICATIONS, AND THEREFORE SHALL BE USED AND MAINTAINED IN THEIR ENTIRETY. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR PARTY PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE EXPECTED TO PERFORM DUE DILIGENCE TO ENSURE THEIR BID, WORK PERFORMED, AND MATERIALS PROVIDED CONFORMS TO THE INFORMATION PROVIDED WITHIN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDA OR CLARIFICATIONS THAT MAY BE ISSUED RELEVANT TO THEIR SCOPE OF WORK. PROJECT SCOPE MAY BE DEFINED WITHIN SPECIFICATIONS AND/OR DRAWINGS.

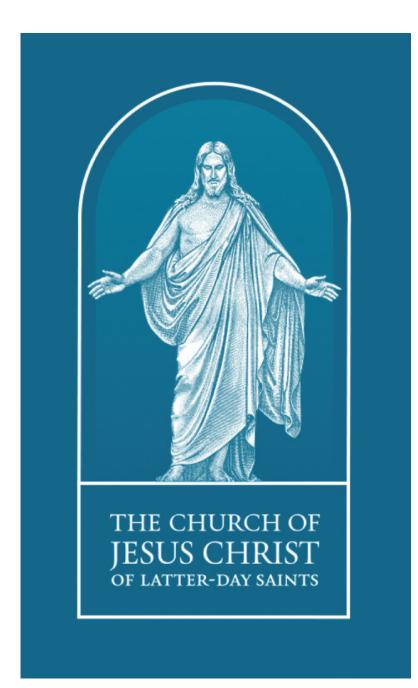
ADDITIONALLY, DRAWINGS MAY NOT BE RE-SCALED WHEN PRINTED, WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE, AND LARGER SCALE DRAWINGS SHALL HAVE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

ANY DEVIATION FROM OR CONFLICT WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, MUST BE SUBMITTED VIA REQUEST FOR INFORMATION (RFI) AND RESPONDED TO BY THE ARCHITECT PRIOR TO BID OR BEFORE CONTINUING THAT PORTION OF WORK.

GENERAL:	
G-001	PROJECT INFORMATION
G-002	CODE REVIEW
ARCHITECTU	RAL DEMO:
AD-101	DEMOLITION PLANS
ARCHITECTU	RAL:
A-101	FLOOR PLAN & REFLECTED CEILING PLAN
A-102	FINISH PLAN
A-501	SCHEDULE - DOOR & DETAILS
A-601	SCHEDULE - FINISH
MECHANICAL	
M100	MECHANICAL OVERVIEW
M101	MECHANICAL PLAN
M102	MECHANICAL SCHEDULES
PLUMBING:	
P100	PLUMBING OVERVIEW
P101	PLUMBING PLAN
ELECTRICAL:	
E100	ELECTRICAL COVER SHEET
E101	ELECTRICAL LIGHTING
E201	ELECTRICAL CONSTRUCTION
E301	ELECTRICAL DETAILS
E401	ELECTRICAL SCHEDULES

## ABBREVIATIONS

ABBREVIATIONS						SYMBOLS	LEGEND	MATERIALS LEGEND			
ABR.	DESCRIPTION	<u>ABR.</u>	DESCRIPTION	<u>ABR.</u>	DESCRIPTION	DESCRIPTION	<u>SYMBOL</u>	DESCRIPTION	<u>SYMBOL</u>	MATERIAL	<u>SYMBOL</u>
AB	ANCHOR BOLT	EXIST	EXISTING	PART BD	PARTICLE BOARD		(A1)				
ABS	ACRYLONITRILE-BUTADIENE	EXP	EXPANSION	PART'N	PARTITION PLASTIC LAMINATE PLATE	BUILDING SECTION	A-101			EARTH	
AC	-STYRENE ACOUSTIC, ACOUSTICAL	EXT FD	Exterior Floor drain	P-LAM PLYWD	PLASTIC LAMINATE PLATE PLYWOOD		<b>V</b>		A1 DETAIL	ASPHALT PAVING	
ACC STA	ACCESSIBLE STATION	FDN	FOUNDATION	PREFAB	PREFABRICATED			DRAWING TAG			
AD	ADDENDUM	FEC	FIRE EXTINGUISHER CABINET	PROJ	PROJECTION				1/8" = 1'-0" SUB DESCRIPTION	COMPACTED GRANULAR FILL	
ADJ	ADJUSTABLE	FIN	FINISH	PT	PRESERVATIVE TREATED	WALL SECTION	- $(A1)$ $  -$				1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
AFF	ABOVE FINISH FLOOR	FLR	FLOOR	PVC	POLYVINYL CHLORIDE		A-101			CONCRETE	
ALT	ALTERNATE	FTG	FOOTING	QT	QUARRY TILE		•	WINDOW TYPES	$\langle A \rangle$	CONCRETE MASONRY UNITS	
ALUM ASI	ALUMINUM Architect supplemental	GA GALV	GAUGE GALVANIZED	R/ RAD	ROUND RADIUS				STOREFRONT/ CURTAIN WALL	CONCRETE MASONRY UNITS	
AJI	INSTRUCTION	GI	GALVANIZED IRON	RD	ROOF DRAIN		A1			BRICK	
ASPH	ASPHALT	GYP BD	GYPSUM BOARD	REF	REFRIGERATOR	DETAIL	$ \left(\begin{array}{c} A \\ A \\ A \\ A \end{array}\right)$ $    -$				<del></del>
		HDWD	HARDWOOD	REINF	REINFORCE		$\bigcirc$	WALL TYPES	<b></b> S6A	STEEL	
BB	BASKETBALL	HM	HOLLOW METAL	REV	REVISION				DOOR NUMBER		
BD	BOARD	HORIZ	HORIZONTAL	RFI	REQUEST FOR INFORMATION		$\frown$			CONTINUOUS WOOD	
BLDG	BUILDING	HT	HEIGHT	RO	ROUGH OPENING	SECTION DETAIL	$\left(\begin{array}{c} A1\\ A 101\end{array}\right)$	DOOR TAG	A101B ADTIHMA	WOOD BLOCKING	
BLKG	BLOCKING	ID	INSIDE DIAMETER	SCHED	SCHEDULE	ENLARGED PLAN	- A-101		FRAME TYPE		
BM B.O.	BENCH MARK BOTTOM OF	INSUL INT	INSULATION INTERIOR	SHT SIM	SHEET SIMILAR				HARDWARE #	PLYWOOD / OSB	
BRG	BEARING	.IT	JOINT	SPEC	SPECIFICATION		(/		NOTE #		
BSMT	BASEMENT	KD	KNOCK DOWN	SQ	SQUARE			KEYNOTES	04.03	PARTICLE BOARD	
B.U.R.	BUILT UP ROOF	KO	KNOCK OUT	SS	STAINLESS STEEL				Division #		
С	CHANNEL	L	ANGLE	STD	STANDARD	ELEVATION LEVEL			$\wedge$	INSULATION	
CB	CHALKBOARD	LLV	LONG LEG VERTICAL	STL	STEEL			REVISIONS		RIGID INSULATION	
C	CENTER LINE	MAX	MAXIMUM	STOR	STORAGE						
CLG	CEILING	MB	MARKER BOARD	STRUCT	STRUCTURAL					GYPSUM BOARD	
CMU CO	CONCRETE MASONRY UNIT CLEAN OUT	MECH MFR	MECHANICAL MANUFACTURER	SUSP SYS	SUSPENDED, SUSPENSION SYSTEM		INTERIOR EXTERIOR		(0)		
COL	COLUMN	MH	MANHOLE	T & B	TOP AND BOTTOM	ELEVATIONS			Ť	GLU-LAMINATE BEAM	
CONC	CONCRETE	MIN	MINIMUM	TB	TACKBOARD		A1/A-101			GLASS	
CONN	CONNECTION	MISC	MISCELLANEOUS	TEMP	TEMPORARY		$\checkmark$				
CONT	CONTINUOUS	MO	MASONRY OPENING	TEL	TELEPHONE					FINISH WOOD	
CONTR	CONTRACTOR	MT	MOUNT	THRES	THRESHOLD		ROOM NAME		'	ALUMINUM	
CT	CERAMIC TILE	MTL	METAL	TS	TUBE STEEL	ROOM TAG	<b>1</b> 01	EQUIPMENT TAG	D		
a DIM	Penny Dimension	(N) NIC	NEW NOT IN CONTRACT	t.o. Toil	TOP OF TOILET				7	WOOD STUD WALL	
DIW	DOWNSPOUT	NTS	NOT TO SCALE	TV	TELEVISION						
DWG	DRAWING	0.C.	ON CENTER	TYP	TYPICAL			FINISH TAG			
(E)	EXISTING	OD	OUTSIDE DIAMETER	VERT	VERTICAL		FLOOR CF MF BASE				
ÈÁ	EACH	OH	OVERHEAD	U.N.O.	UNLESS NOTED OTHERWISE	ROOM FINISH TAG	FF BF WALL				
EIFS	EXTERIOR INSULATION	OF/CI	OWNER FURNISHED /	W	WIDE FLANGE		WALL WW EW WALL	NORTH ARROW			
	FINISH SYSTEM	0=/01	CONTRACTOR INSTALLED	W/	WITH		WALL SW				
ELECT	ELECTRICAL	OF/OI	OWNER FURNISHED /	WC	WATER CLOSET		WALL		NORTH		
ELEV EQ	ELEVATION EQUAL	OPNG	owner installed Opening	WD WM	WOOD WATER METER						
EQUIP	EQUIPMENT	OPNG	OPPOSITE	W/O	WITHOUT						
EWC	ELECTRIC WATER COOLER	0.T.S.	OPEN TO STRUCTURE	WWF	WELDED WIRE FABRIC						



DESIGN WEST ARCHITECTS 255 SOUTH 300 WEST - 795 NORTH 400 WEST LOGAN, UT 84321 - SALT LAKE CITY, UT 84103 PHONE: 435.752.7031 - 801.539.8221 EMAIL: ryanl@designwestarchitecrs.com CONTACT: RYAN W. LEMON

# SYMBOLS LEGEND

# ARCHITECTURAL

# **MECHANICAL & ELECTRICAL**

## **BRENKMAN & COMPANY**

1770 RESEARCH PARKWAY, SUITE 112 LOGAN, UTAH 84341 PHONE: PHONE: 435.554.1771 EMALE: henk.brenkman@brenkmanandcompany.com CONTACT: HENK BRENKMAN

> **BID ALLOWENCE** PROVIDE IN YOUR BID A BID ALLOWENCE OF \$25,000 FOR DEMOLITION AND RESTORATION OF THE PREVIOUS DISTRIBUTION STORE LOCATION.

OWNER

4185 N MONTANA AVE, SUITE 1

PHONE: PHONE: 385.228.4288

EMALE: KingLC@churchofjesuschrist.org

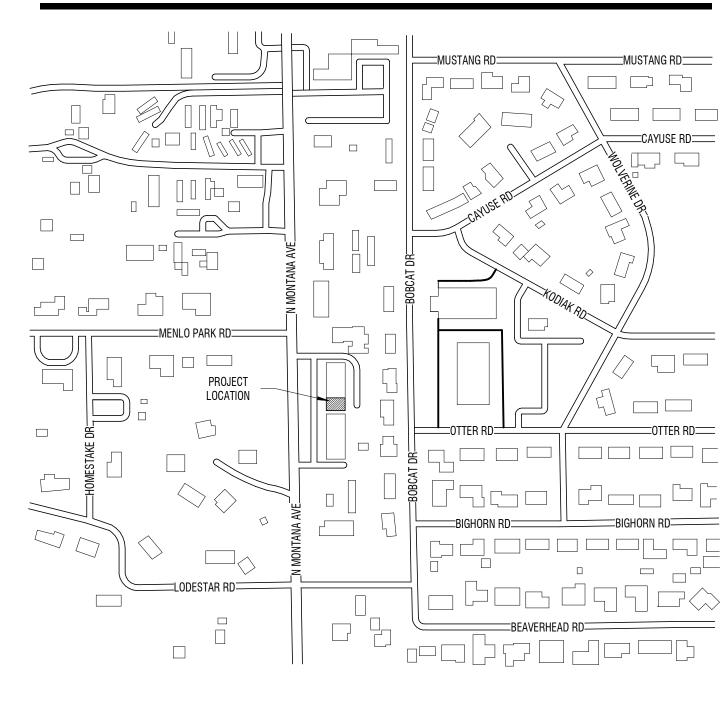
HELENA, MT 59602

CONTACY: LOGAN KING

SAINTS

CHURCH OF JESUS CHRIST OF LATTER DAY

# VICINITY MAP



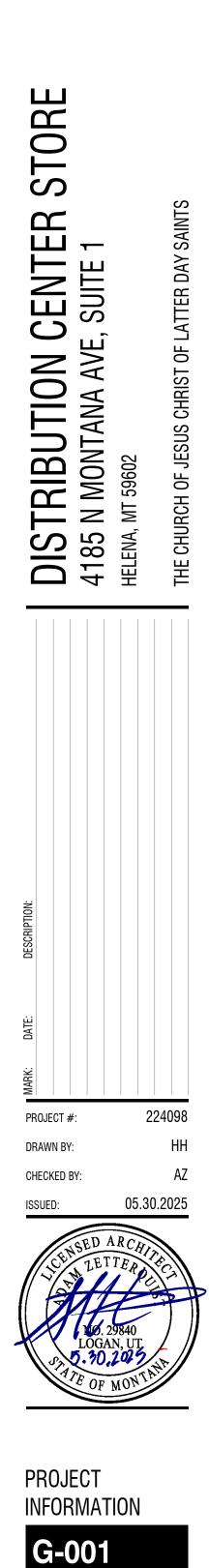


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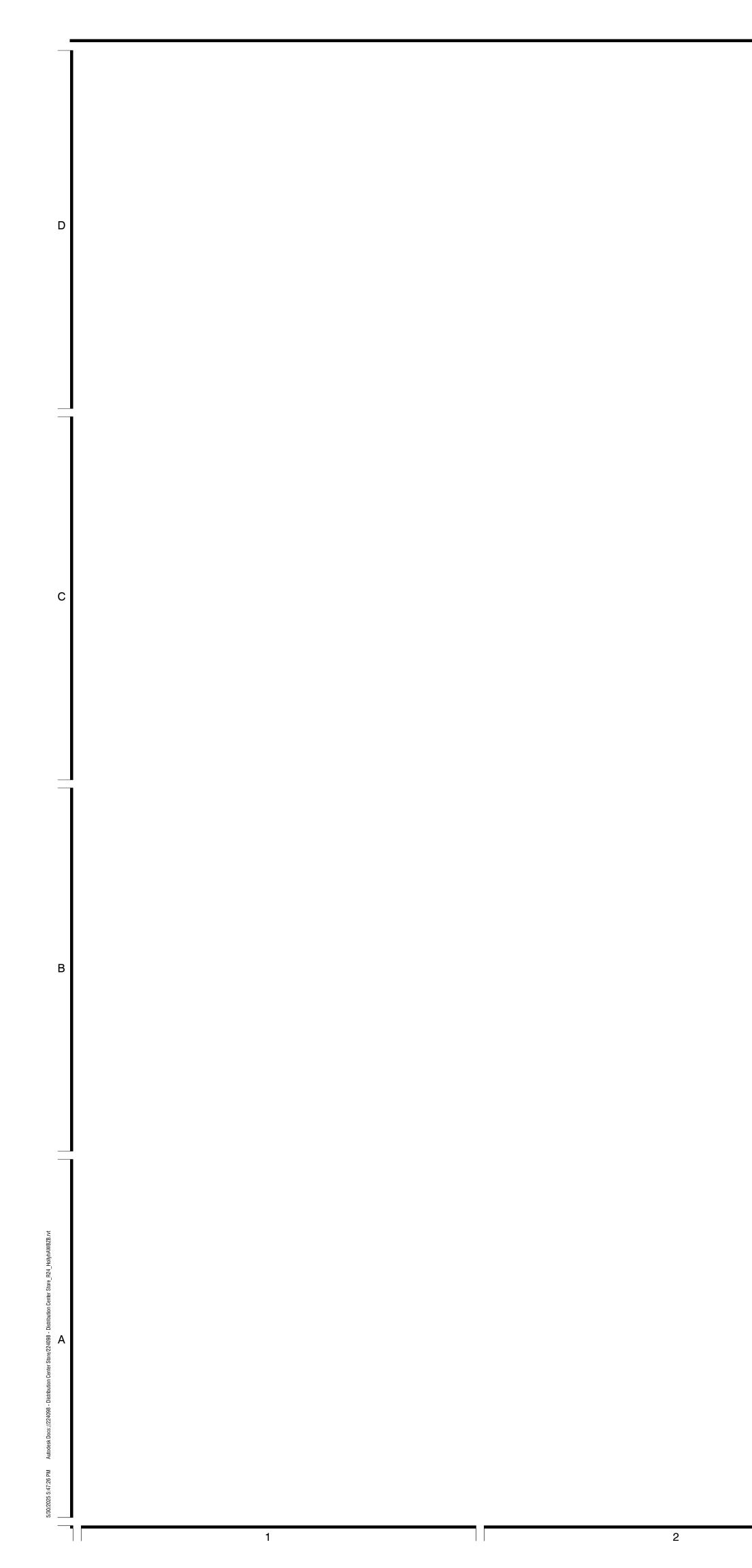
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# LEGEND

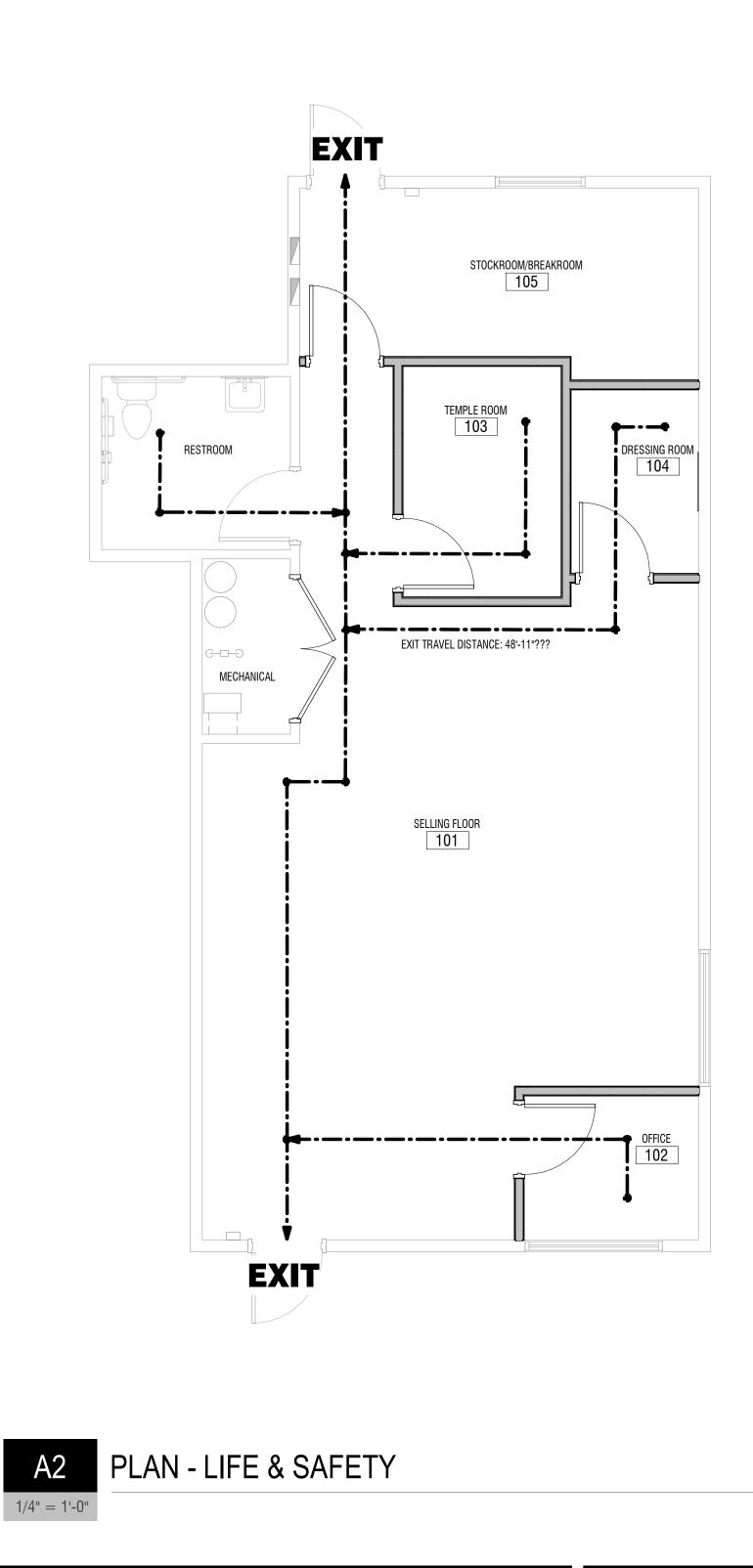
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\*\*\*\*\*\*

BATT INSULATION - EXTEND TO DECK - SEE WALL TYPES ON A-531

SOUND WALL - EXTEND TO DECK - SEE WALL TYPES ON A-531

EGRESS PATH



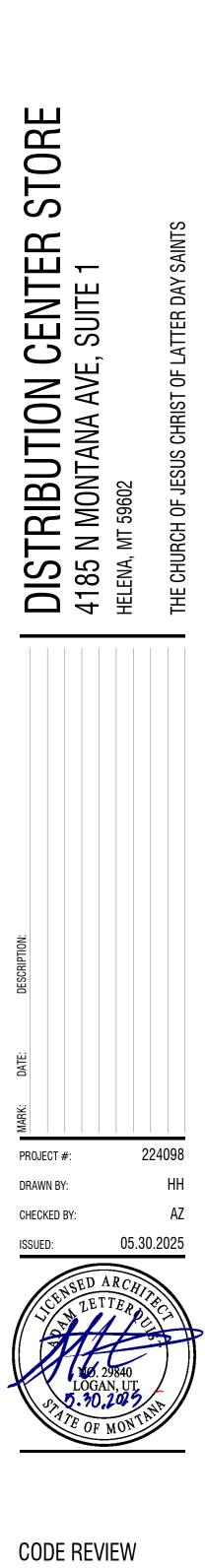
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# CODE REVIEW

<u>JURISDICTION</u> Helena, MT					
2021 INTERNA 2021 INTERNA 2021 INTERNA 2021 COMMEF	TIONAL EXISTING BUILD TIONAL BUILDING CODE TIONAL MECHANICAL C TIONAL PLUMBING COD RCIAL ENERGY CONSERV L ELECTRICAL CODE A117.1, 2017	ODE E	DE		
OCCUPANCY CLASS GROUP (M)	S <b>IFICATION (301)</b> Description Retail Sale				
MIXED OCCUPANCY No	<u>( (508, 508.2)</u>				
<u>High-hazard gro</u> Yes	<u>UP (307)</u>				
<u>TYPE OF CONSTRU</u> GROUP (M)	<u>CTION <i>(601)</i></u> CONSTRUCTION TYPE VB				
	KLER SYSTEM <i>(CH9)</i>				
GROUP (M)	NO SPRINKLERS				
<u>Building Height (</u> Unchaged	<u>(504.3)</u>				
<u>NUMBER OF STORI</u> UNCHAGED)	<u>ES (504.4)</u>				
BUILDING AREA <u>(</u> 50					
GROUP (M)		OPOSED ( 4 SF	renant spa	CE) PROPOSEI <4,0	) (TOTAL BUILDING) DO
	QUIREMENTS (TABLE 60	<u>01)</u>			
	JCTURAL FRAME	0 H	IR RATING		
BEARING WAL	{			01, 602 EXTERIOR W	/ALL 705)
INTERIOR NON BEARING	WALLS	0 H	ir rating (2		
FLOOR CONST ROOF CONSTR		0 H	IR RATING `	01, HORIZONTAL AS	,
SHAFT WALLS CORRIDORS				13.4, FIRE BARRIER 020.1, FIRE PARTION	
<u>OCCUPANT LOAD C</u> Space	ALCULATION (1004.1.2) FUNCTION	) SQFT	LOAD/FAC	TOR OCCUPAN <sup>-</sup>	rç
RETAIL SALES		884 SF	60	14.7 (15)	
<u>EGRESS WIDTH (10</u> Type	0 <u>5.1, 1010.1.1, 1011.2,</u> CODE		QUIRED	PROVIDED	
EXIT DOORS	.2" x 15=3"		'EA.	36" EA.	
	E REQUIREMENTS (290	1 <u>2.1)</u>			
GROUP (M)	ULATIONS (2902.1.1) CALCULATION 884/60=14.7 (15 OCCU	JPANTS)			
WATER CLOSE					
GROUP (M)	TABLE VALUE 1:500	E / CALCUL	LA HUN	REQUIRED 1 TOTAL	PROVIDED 1 TOTAL
LAVATORIES					
GROUP (M)	TABLE VALUE 1:1000	E / CALCUI	ATION	REQUIRED 1 TOTAL	Provided 1 Total
SERVICE SINK	S (2902.1-J)			REQUIRED	PROVIDED
					0



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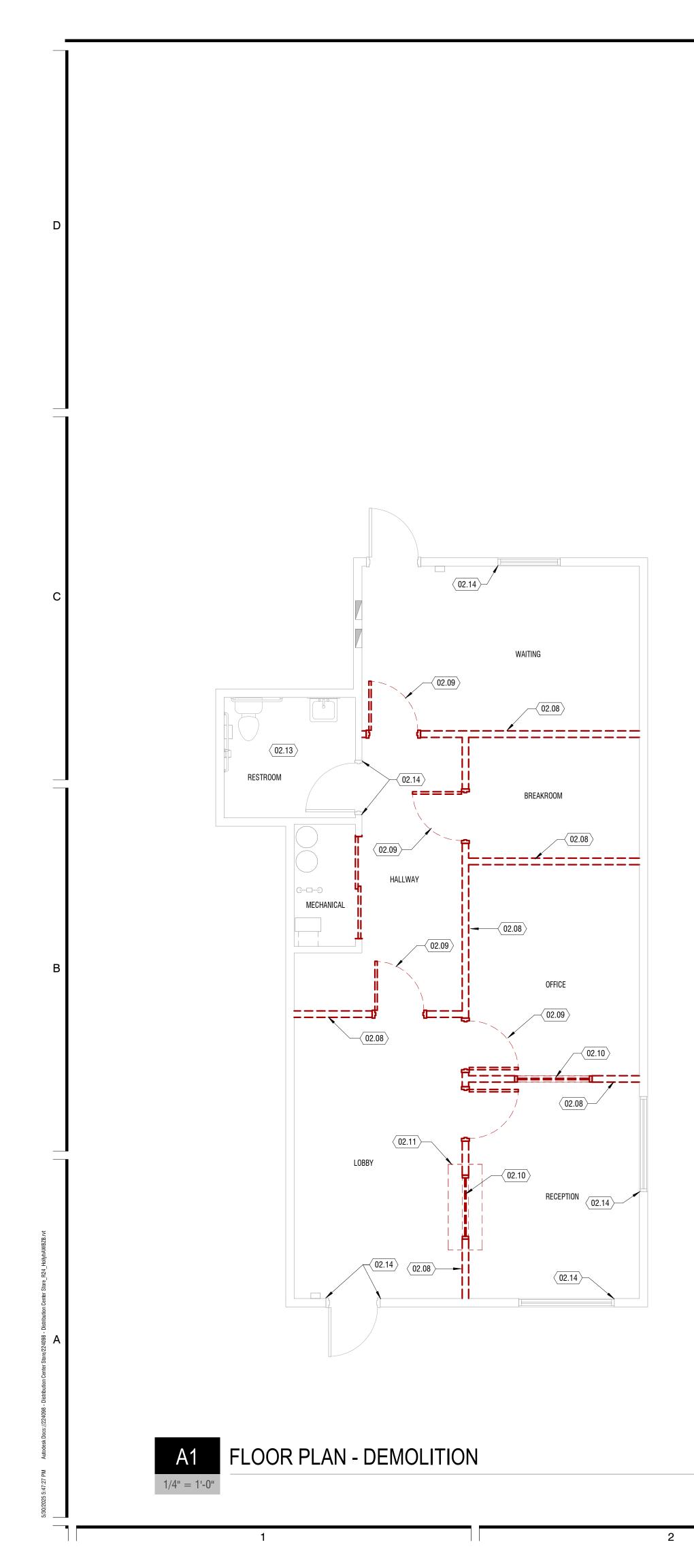
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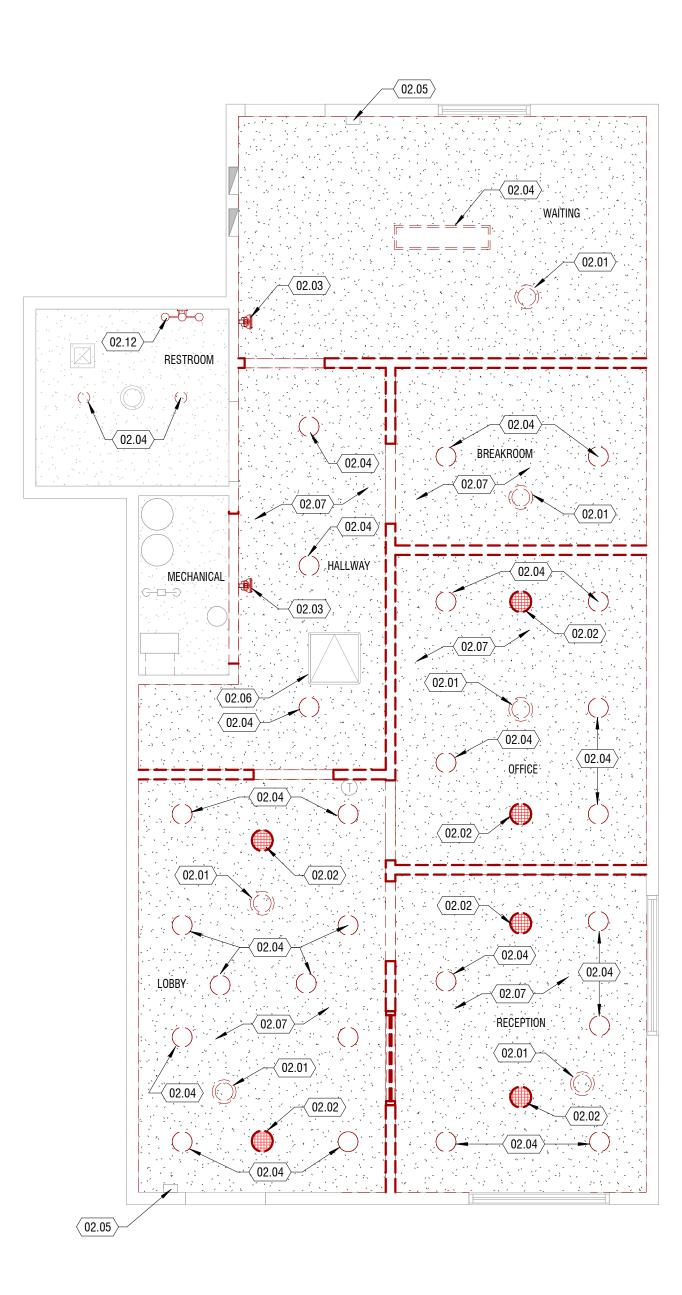
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G-002

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# **REFLECTED CEILING - DEMOLITION**

3



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# DEMOLITION GENERAL NOTES:

1. THE DEMOLITION DRAWINGS ARE INTENDED TO SHOW THE GENERAL NATURE & SCOPE OF THE WORK REQUIRED. ON-SITE OBSERVATIONS SHOULD BE MADE AND REPORT ANY ABNORMAL CONDITIONS TO ARCHITECT. SOME INCIDENTAL ITEMS REQUIRING REMOVAL MAY NOT BE SPECIFICALLY CALLED OUT. REMOVAL OF ALL ITEMS NECESSARY FOR THE COMPLETION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

FIELD VERIFY EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. SEE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION PLANS AND SCOPE. REFER TO SHEET INDEX FOR DEMOLITION DRAWINGS. COORDINATE DISCREPANCIES WITH ARCHITECT PRIOR TO PROCEEDING WITH WORK.

 KEYNOTES: # THE FIRST TWO NUMBERS REPRESENT THE RELATED CSI MASTER FORMAT DIVISION. THE SECOND SET OF NUMBERS REPRESENTS AN IDENTIFYING MARK VALUE. NOT ALL VALUES MAY BE USED OR OCCUR IN THE DOCUMENT SET.

ADDITIONALLY, KEYNOTES RETAIN THEIR ASSIGNED VALUE UNIVERSALLY THROUGHOUT THE ARCHITECTURAL SET. THE KEYNOTES LISTED BELOW, REPRESENT THE KEYNOTES FOUND AND UTILIZED ON THIS SHEET AND EACH LIST WILL DIFFER RESPECTIVE TO ITS' SHEET. THEREFORE, BASED ON ACTUAL KEYNOTES UTILIZED ON A GIVEN SHEET OF DRAWINGS, GAPS IN THE SEQUENCING WILL OCCUR.

- ALL INTERIOR DIMENSIONS ARE TO/FROM FACE OF FINISH. ALL EXTERIOR DIMENSIONS ARE TO/FROM FACE OF FINISH MATERIAL OR GRID WHERE SHOWN. CONTRACTOR SHALL COORDINATE EXISTING DIMENSIONS WITH PROPOSED SCOPE AND REPORT DISCREPANCIES WHERE FOUND.
- 4. PROTECT ALL SURFACES THAT ARE TO REMAIN OR THAT ARE EXPOSED, AND PROVIDE DUST BARRIERS TO PROTECT ADJACENT AREAS FROM DUST AND DEBRIS DURING SELECTIVE DEMOLITION OPERATIONS.
- 5. PATCH AND REPAIR DAMAGE IN WALLS, CEILINGS, AND FLOORS RESULTING FROM DEMOLITION OF EXISTING ITEMS OR CONSTRUCTION OF NEW ITEMS AND/OR REPLACE WITH NEW TO MATCH EXISTING. CLEAN AND PREPARE TO RECEIVE NEW FINISH. PROVIDE PAINT/FINISH TOUCHUP AT ALL DEMO LOCATIONS. CLEAN WORK AREA OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN.
- 6. TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF DEBRIS.
- IN LOCATIONS WHERE NEW FLOOR FINISHS ARE BEING INSTALLED, EXISTING FLOORING WILL BE DEMOED AND SUB-FLOORING PREPPED TO RECEIVE NEW FINISHES AS INDICATED ON FINISH SCHEDULE.
- DEMOLISH EXISTING FLOORING WHERE SHOWN, INCLUDING: SETTING BEDS, ADHESIVES AND OTHER VARIANCES IN THE EXISTING FLOOR. PREPARE FLOOR TO RECEIVE NEW FLOORING AS REQUIRED BY CONTRACT DOCUMENTS.
- 9. WALLS, DOORS, CABINETS, WINDOWS, CEILINGS, ETC. WHERE SHOWN DASHED ARE TO BE REMOVED.
- 10. REMOVE ALL ABANDONED POWER AND SIGNAL CABLING BACK TO SOURCE AND SAFE OFF.
- 11. REMOVE GENERAL FINISHES, SIGNAGE, FIXTURES, HARDWARE, ETC. THROUGHOUT AREA OF WORK, U.N.O.
- 12. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO DETERMINE IF ANY PARTS OR EQUIPMENT ARE DESIRED TO BE KEPT BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL. ANY ITEM NOT WISHED TO BE RETAINED, SHALL BE DISPOSED OF AT THE RESPONSIBILITY OF THE CONTRACTOR.

# KEYNOTES (#>

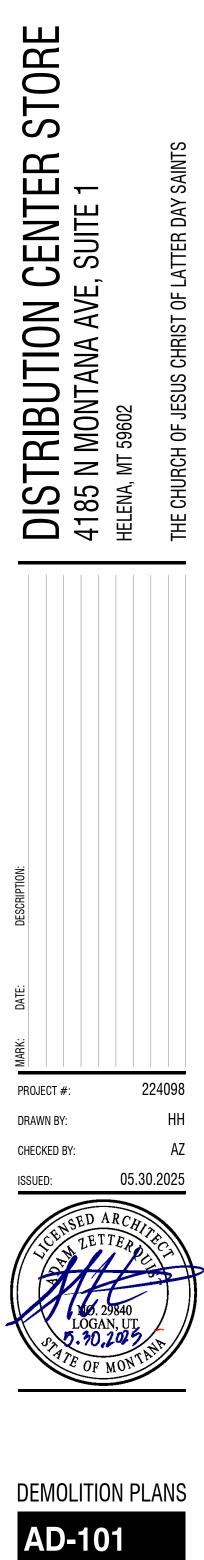
MARK	DESCRIPTION
02.01	EXISTING CEILING DIFFUSER TO BE REMOVED
02.02	EXISTING CEILING SPEAKER TO BE REMOVED
02.03	EXISTING WALL SPEAKER TO BE REMOVED
02.04	EXISTING LIGHT FIXTURE TO BE REMOVED
02.05	EXISTING SECURITY KEY PAD TO REMAIN
02.06	EXISTING ATTIC ACCESS DOOR TO REMAIN
02.07	EXISTING GYP BOARD CEILING TO REMAIN
02.08	EXISTING WALL TO BE REMOVED
02.09	EXISTING DOOR TO BE REMOVED
02.10	EXISTING WINDOW TO BE REMOVED
02.11	EXISTING COUNTER TO BE REMOVED
02.12	EXISTING VANITY LIGHT TO BE REMOVED
02.13	REMOVE AND STORE FOR REINSTALLATION PLUMBING FIXTURES, GRAB BARS, MIRROR AND DISPENSORS IN RESTROOM
02.14	REMOVE ALL WOOD TRIM AT DOORS AND WINDOWS

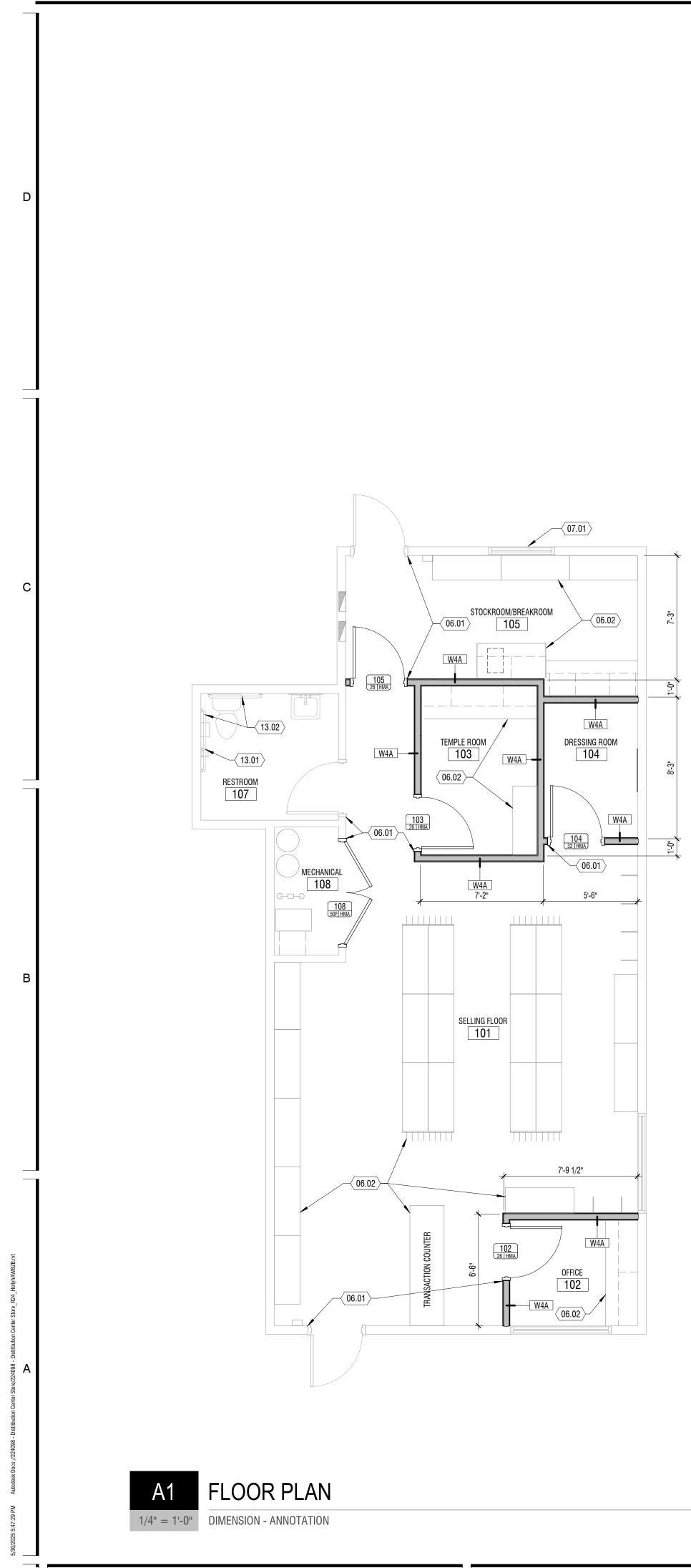
# LEGEND

EXISTING TO REMAIN



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1

2

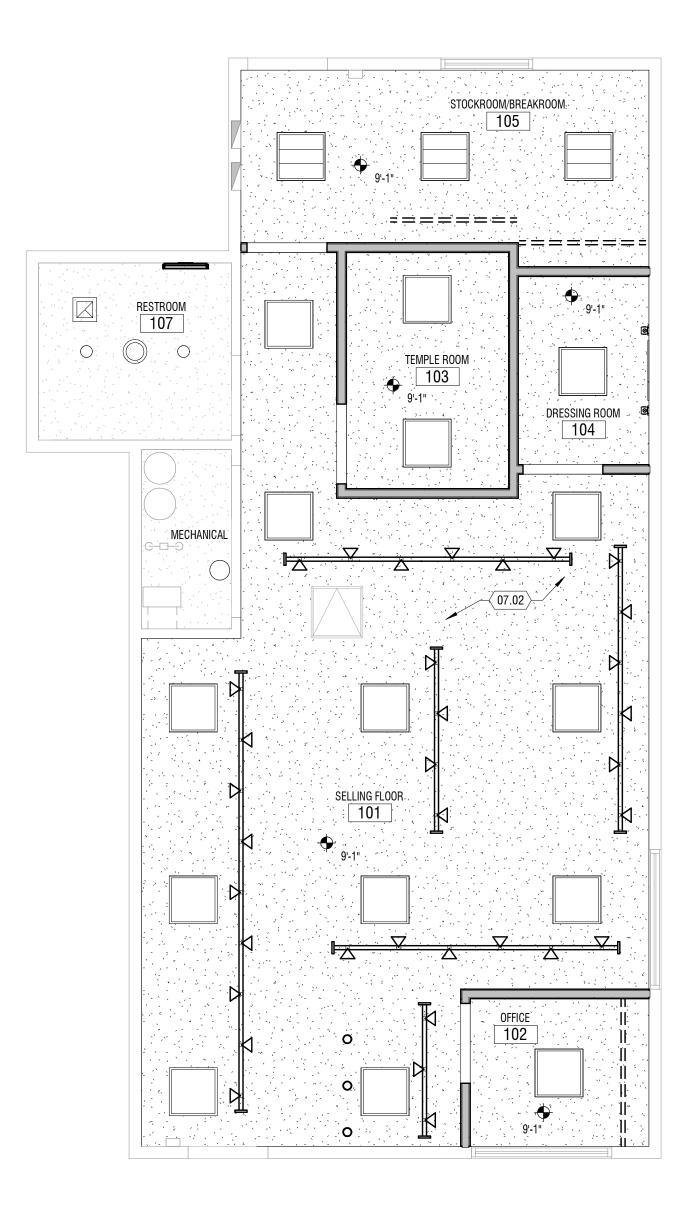
**K**NORTH

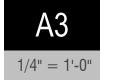
## R.C.P. GENERAL NOTES

. <u>KEYNOTES</u>: THE FIRST TWO NUMBERS REPRESENT THE RELATED CSI MASTER FORMAT DIVISION. THE SECOND SET OF NUMBERS REPRESENTS AN IDENTIFYING MARK VALUE. NOT ALL VALUES MAY BE USED OR OCCUR IN THE DOCUMENT SET.

ADDITIONALLY, KEYNOTES RETAIN THEIR ASSIGNED VALUE UNIVERSALLY THROUGHOUT THE SET. THE KEYNOTES LISTED BELOW, REPRESENT THE KEYNOTES FOUND AND UTILIZED ON THIS SHEET AND EACH LIST WILL DIFFER RESPECTIVE TO ITS' SHEET. THEREFORE, BASED ON ACTUAL KEYNOTES UTILIZED ON A GIVEN SHEET OF DRAWINGS, GAPS IN THE SEQUENCING WILL OCCUR.

- 2. CONTRACTOR SHALL COORDINATE LAY-OUT OF STRUCTURAL, MECHANICAL, SPRINKLER AND ELECTRICAL. NOTIFY ARCHITECT OF ANY CONFLICTS.
- 3. ALL INTERIOR DIMENSIONS ARE TO/FROM FACE OF STUD / MASONRY. ALL EXTERIOR DIMENSIONS ARE TO/FROM FACE OF GRID/FOUNDATION. DIMENSIONS MARKED 'CLEAR' OR 'CLR' ARE FROM FACE OF FINISH TO FACE OF FINISH AND SHALL BE MAINTAINED AND CANNOT BE FIELD ADJUSTED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.
- 4. SEE A-601 LEGEND FOR FINISH LEGEND
- 5. CEILING HEIGHT IS B.O. FINISHED CEILING HEIGHT ABOVE FINISHED FLOOR
- 6. MEASUREMENTS SPECIFYING "EQ" = EQUAL LENGTH OR WIDTH TO FILL REMAINDER OF LENGTH REQUIRED
- 7. LIGHT FIXTURES WITH NO DIMENSIONS ARE TO BE CENTERED ON ROOM UNLESS OTHERWISE NOTED
- 8. ROLLER SHADES PER FINISH PLANS, COORDINATE MANUAL AND POWER LOCATIONS WITH THE ELECTRICAL AND FINISH PLANS.





REFLECTED CEILING

3



4

# GENERAL NOTES

KEYNOTES: ( # ) THE FIRST TWO NUMBERS REPRESENT THE RELATED CSI MASTER FORMAT DIVISION. THE SECOND SET OF NUMBERS REPRESENTS AN IDENTIFYING MARK VALUE. NOT ALL VALUES MAY BE USED OR OCCUR IN THE DOCUMENT SET.

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2. CONTRACTOR SHALL BE FAMILIARIZED WITH THE LAY-OUT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ANY QUESTIONS SHALL BE SUBMITTED VIA REQUEST FOR INFORMATION (RFI).

12" MIN PUSH SIDE

18" MIN PULL SIDE

3. MIN CLEARANCE REQUIRED ON LATCH SIDE OF DOORS SHALL CONFORM TO ADA REQUIREMENTS

3" STUD SECTION

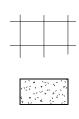
- 4. HINGE SIDE OF DOORS AT PERPENDICULAR WALLS TO HAVE 3" STUD SECTION U.N.O.
- 5. ALIGN FURRED WALLS AND STUD WALL FINISH FACE TYPICAL U.N.O.
- 6. ADA RESTROOMS MUST COMPLY WITH ADA WATER CLOSET MEASUREMENTS ON SHEET A1/A-501
- 7. DOOR AND WINDOWS OPENINGS ARE INDICATED WITH ANNOTATION SYSMBOLS AND ARE FURTHER IDENTIFIED ON DOOR AND WINDOW SCHEDULES. SEE BOTH FLOOR PLANS AND EXTERIOR ELEVATIONS FOR ALL REFERENCES.
- 8. PROVIDE CONTINUOUS WOOD BLOCKING FOR ANY WALL MOUNTED OR SUPPORTED ITEMS.
- 9. FEC = FIRE EXTINGUISHER IN SEMI-RECESSED CABINET.
- 10. A1/A-101 INDICATES INTERIOR ROOM ELEVATIONS ON SHEET REFERENCED.
- 11. WALL TYPES SHOWN AS WWW ARE SHOWN ON SHEET A-501.
- 12. SEE FINISH PLANS FOR SIGNAGE LOCATION, SIGNAGE SYMBOL.

# KEYNOTES (#>

MARK	DESCRIPTION
06.01	INSTALL 4" SQUARE STOCK WOOD TRIM AT ALL DOORS AND WINDOWS
06.02	OWNER PROVIDED AND INSTALLED MILLWORK
07.01	ADD WHITE OPAQUE FILM TO INSIDE OF GLAZING. ADD RIGID INSULATION TIGHT TO GLAZING. THICKNESS OF INSULATION TO BE $\sim$ 5" (FULL DEPTH OF WINDOW RECESS). FILL ALL GAPS/VOIDS AROUND INSULATION
07.02	REPLACE ANY DISTRUBED/REMOVED ATTIC INSULATION AS REQUIRED TO ACCOMPLISH NEW WORK. TYPICAL ALL SPACES
13.01	INSTALL NEW VERTICAL GRAB BAR
13.02	REINSTALLATION PLUMBING FIXTURES, GRAB BARS, MIRROR AND DISPENSORS IN RESTROOM

# LEGEND





2'-0" x 2'-0" SUSPENDED ACOUSTICAL LAY-IN CEILING SYSTEM PAINTED GYPSUM BOARD CEILINGS WITH LIGHT KNOCK-DOWN TEXTURE TYPICAL, U.N.O.



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## Lighting fixtures: 2'x2' troffers

VANITY LIGHT

6" LED CAN LIGHT

TRACK LIGHTING

ROUND PENDANT FIXTURE

UNDER CABINET LED

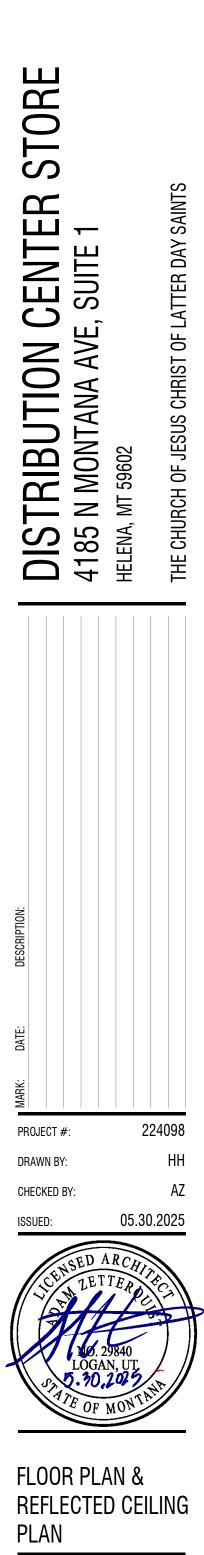
WALL SCONCE

<u>Sensors/Signs/Elec./Data:</u> Exit sign - see electrical drawings

<u>AIR GRILLES/ACCESS PANELS:</u> Exhaust SUPPLY / FRESH **RETURN / RELIEF** ACCESS PANEL



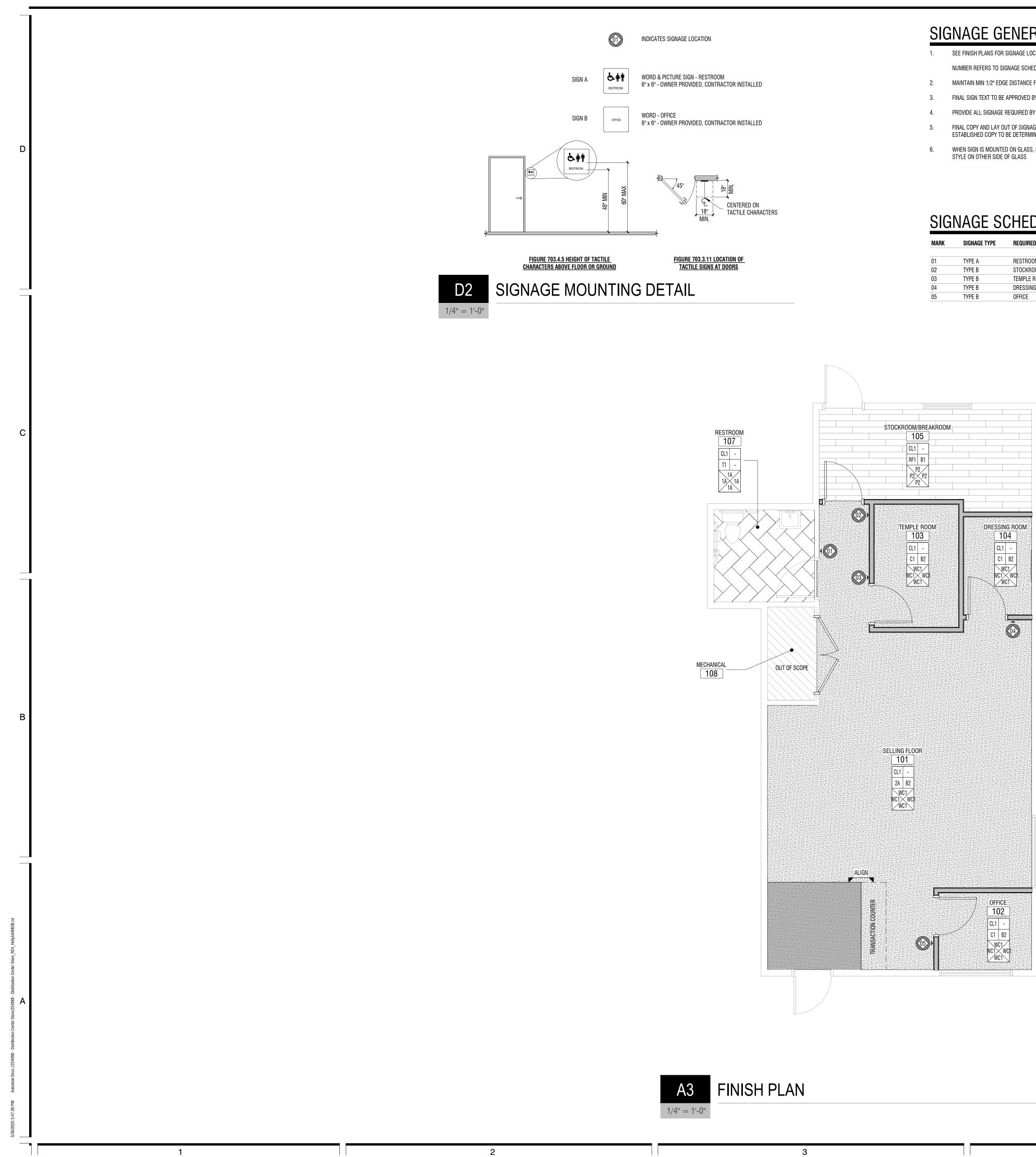
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**BID/PERMIT** 



# SIGNAGE GENERAL NOTES

- 1. SEE FINISH PLANS FOR SIGNAGE LOCATIONS. SIGNAGE INDICATED WITH SYMBOL ON PLAN NUMBER REFERS TO SIGNAGE SCHEDULE, LETTER IN SCHEDULE REFERS TO SIGNAGE GRAPHICS
- MAINTAIN MIN 1/2" EDGE DISTANCE FROM ALL COPY/IMAGES
- FINAL SIGN TEXT TO BE APPROVED BY OWNER AND ARCHITECT
- PROVIDE ALL SIGNAGE REQUIRED BY CODE AND COMPLY WITH ANSI SECTION 703
- FINAL COPY AND LAY OUT OF SIGNAGE TO BE COORDINATED W/ ARCHITECT. SIZES AND MATERIALS, ESTABLISHED COPY TO BE DETERMINED BY OWNER AND SUPPLIED FOR SHOP DRAWINGS
- WHEN SIGN IS MOUNTED ON GLASS, PROVIDE BLANK BACKER PLATE THAT MATCHES SIZE AND

# SIGNAGE SCHEDULE

MARK	SIGNAGE TYPE	REQUIRED TEXT	
01	TYPE A	RESTROOM	
02	TYPE B	STOCKROOM/BREAKROOM	
03	TYPE B	TEMPLE ROOM	
04	TYPE B	DRESSING ROOM	
05	TYPE B	OFFICE	

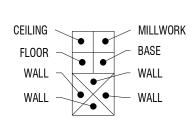


4

# **GENERAL NOTES**

- 1. ROOM FINISH TAGS FOR EACH ROOM REPRESENT TYPICAL FINISHES. SPECIFIC WALLS IN SELECTED AREAS MAY HAVE MULTIPLE FINISHES WHICH WILL BE INDICATED IN INTERIOR ELEVATIONS.
- 2. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CASEWORK AND FINISH ASSEMBLIES
- 3. SEE INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION
- 4. SEE REFLECTED CEILING PLANS FOR ADDITIONAL FINISH INFORMATION 5. FOR FINISH SCHEDULE SEE SHEET A-601.
- 6. FLOOR MATERIAL TRANSITIONS WILL OCCUR BELOW DOORS. U.N.O.
- 7. FOR TYPICAL TRANSITION/FINISH DETAILS SEE SHEET A-102
- 8. SEE SHEET A-102 FOR SIGNAGE TYPES AND DESCRIPTIONS
- 9. TILED WALLS TO BE FULL HEIGHT OF WALL, U.N.O.
- 10. POLISHED OR SEALED CONCRETE <u>DOES</u> EXTEND UNDER CASEWORK OR MILLWORK
- 11. FLOOR COVERING DOES NOT EXTEND UNDER MILLWORK OR CASEWORK, U.N.O.
- 12. INSTALL FLOOR TILE EXPANSION JOINTS AS PER TCNA.

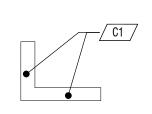
# FINISH LEGEND



ROOM FINISH TAG

FINISH TAG - INDICATES SPECIFIC APPLIED FINISH

INDICATES FINISH IS APPLIED TO AREA BETWEEN ARROWS



(01)

1

INDICATES FINISH IS APPLIED TO FACE OF SURFACE(S)

INDICATES A MANUAL ROLLER SHADE.

INDICATES SIGNAGE LOCATION

INDICATES CORNER GUARD

TILE FLOOR - T1

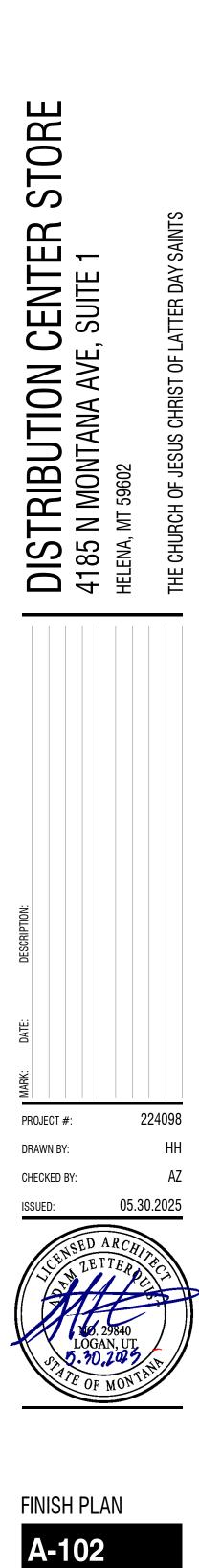
LVT FLOOR - RF1

CARPET - C1

WALK-OFF CARPET - C2



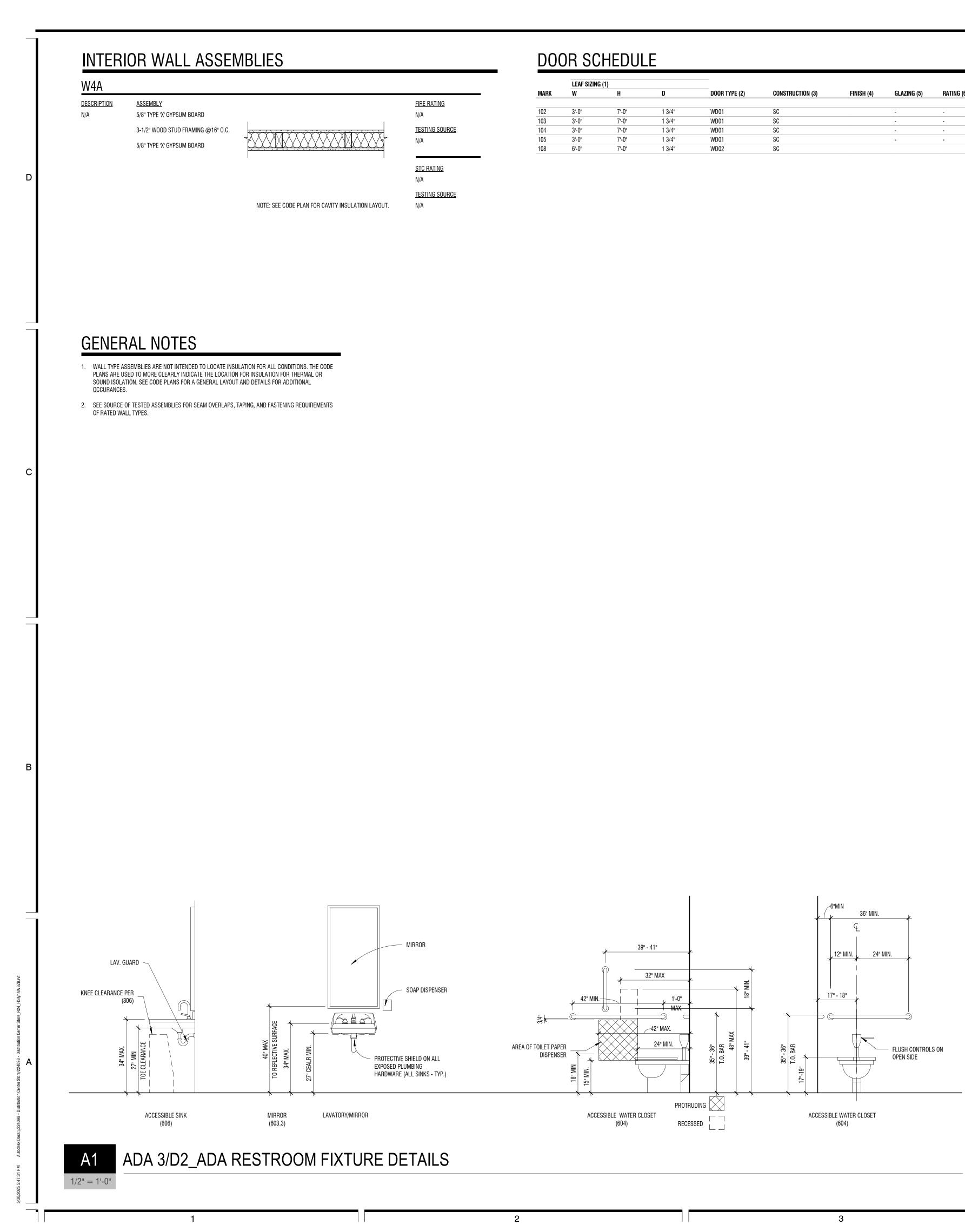
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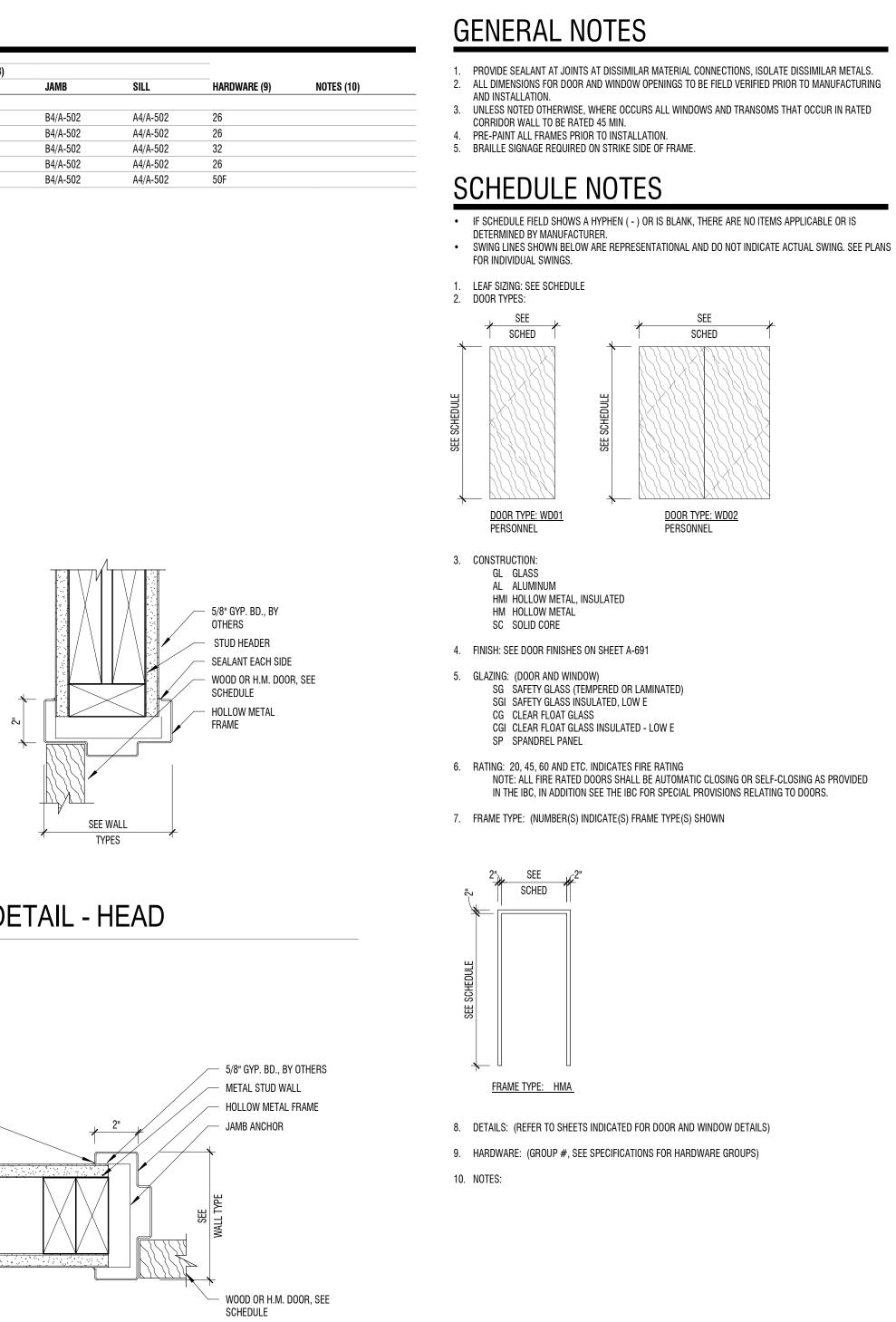
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SET

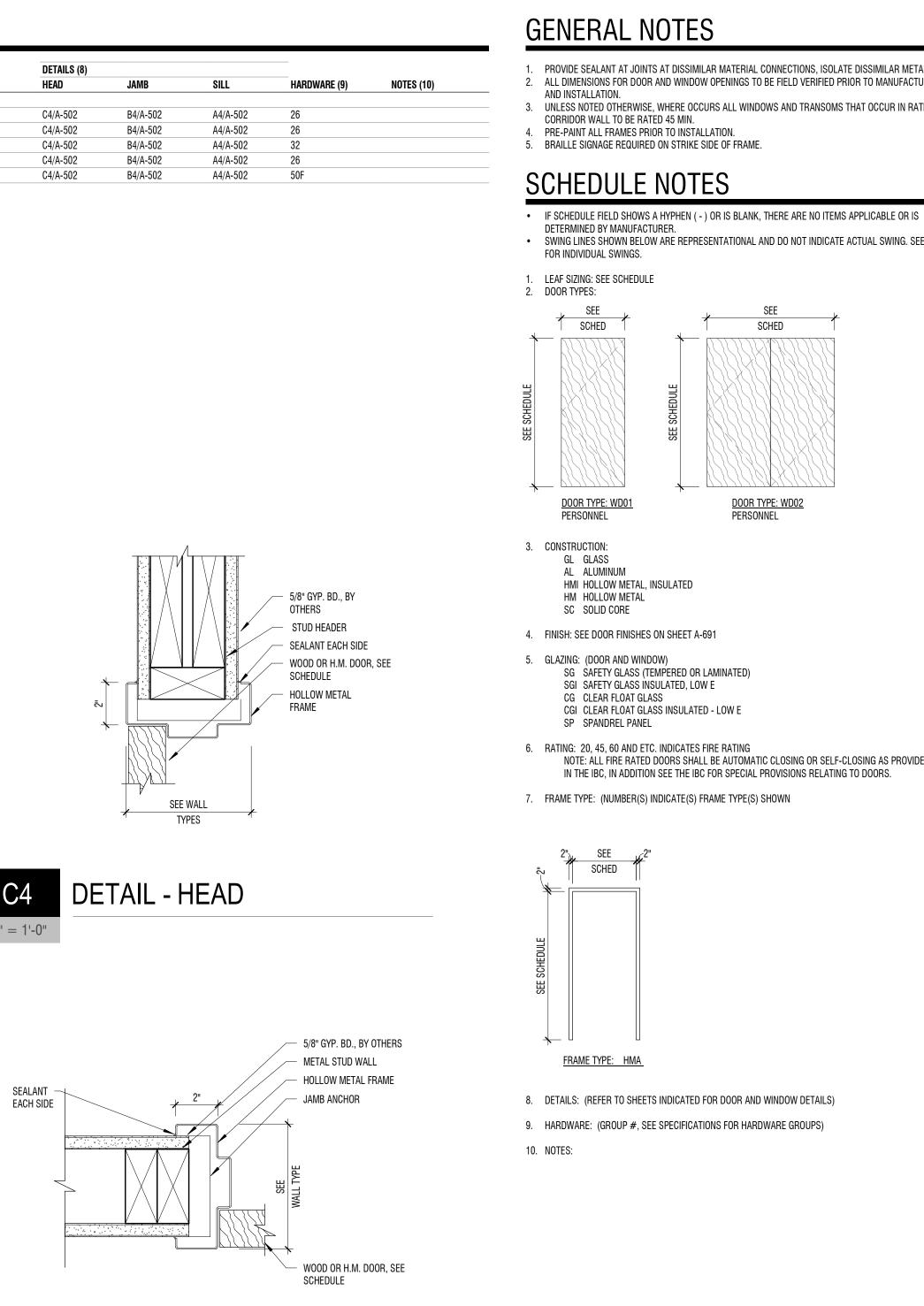
**BID/PERMIT** 

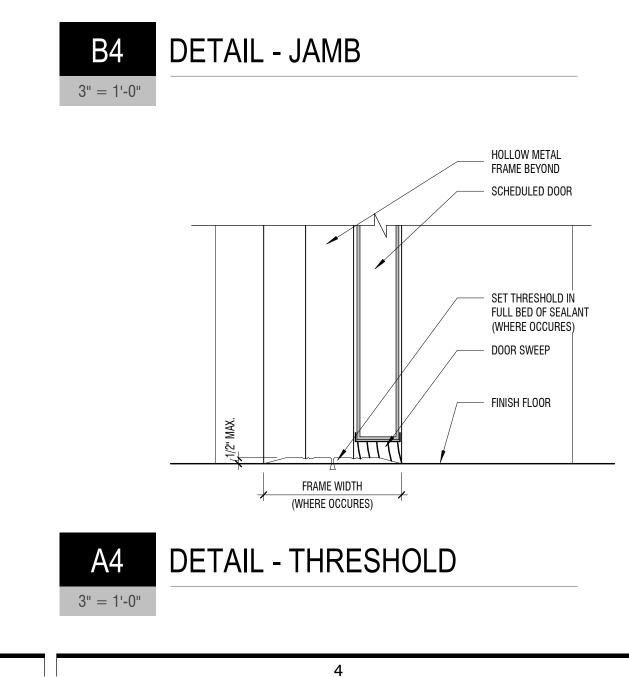


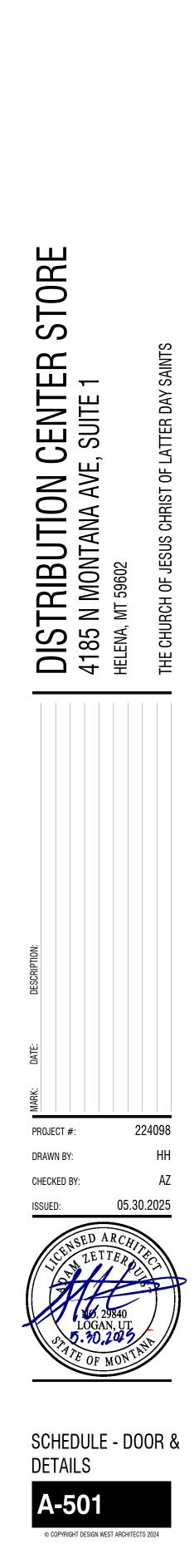
LEAF SIZING (1)									DETAILS (8)			
W	H	D	DOOR TYPE (2)	2) CONSTRUCTION (3)	FINISH (4)	GLAZING (5)	RATING (6)	FRAME TYPE (7)	HEAD	JAMB	SILL	HARDW
3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	НМА	C4/A-502	B4/A-502	A4/A-502	26
3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	HMA	C4/A-502	B4/A-502	A4/A-502	26
3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	HMA	C4/A-502	B4/A-502	A4/A-502	32
3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	HMA	C4/A-502	B4/A-502	A4/A-502	26
6'-0"	7'-0"	1 3/4"	WD02	SC				HMA	C4/A-502	B4/A-502	A4/A-502	50F











SE

PERMIT

BID/

5

DESIGN

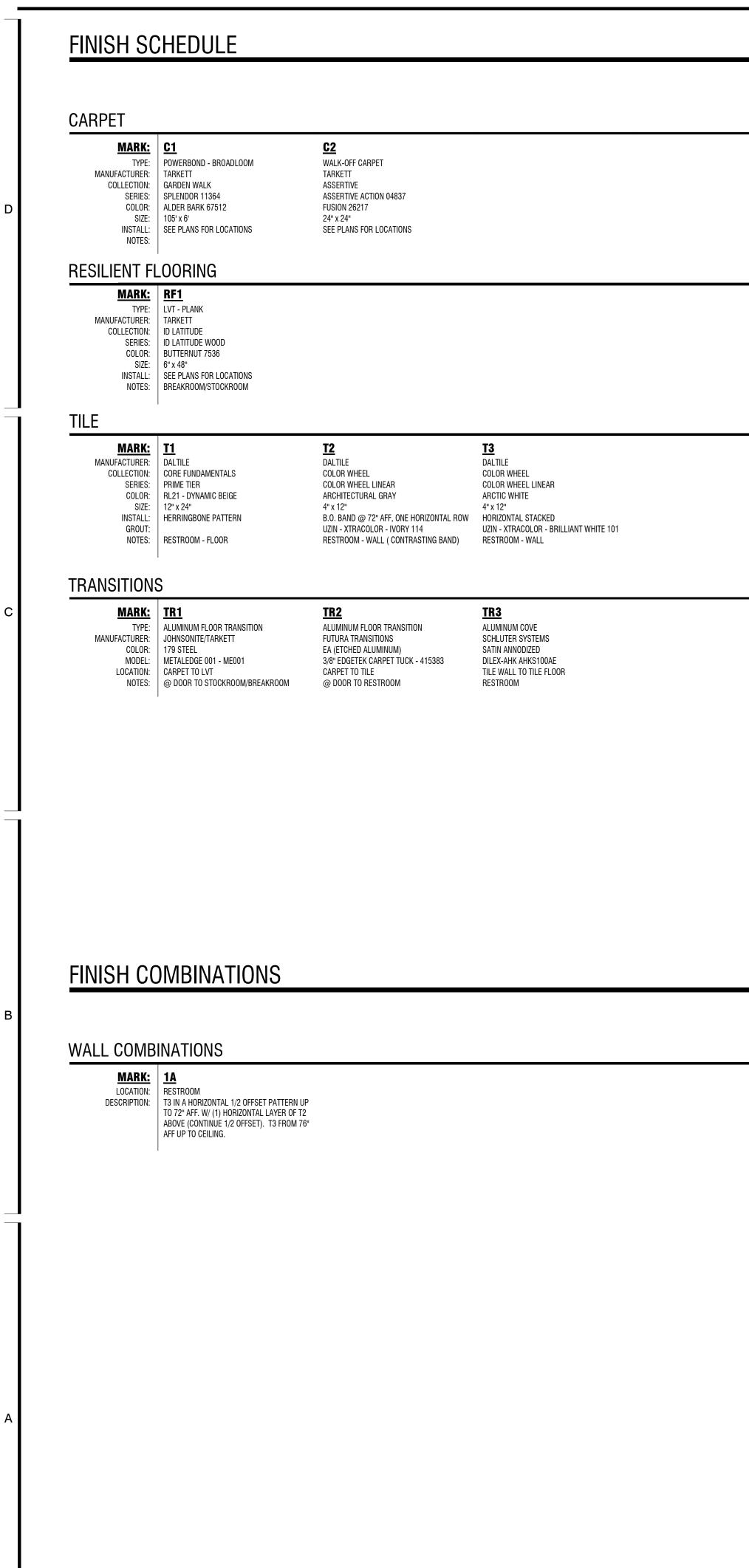
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1

#### CEILING

MARK:<br/>TYPE:CL1<br/>GYPSUM (PATCH, REPAIR, AND PAINT) MANUFACTURER: EXISTING MODEL: EXISTING SIZE: 5/8" THICK COLOR: P1 NOTES: LIGHT KNOCK DOWN TEXTURE

#### PAINT

<u>MARK:</u> <u>P1</u> MANUFACTURER: BENJAMIN MOORE COLOR: 6098 - PACE WHITE SHEEN: FLAT NOTES: CEILING

<u>P2</u> **BENJAMIN MOORE - SCUFF-X** 6098 - PACE WHITE SEMI-GLOSS WALLS

## WALL COVERINGS

MARK:WC1TYPE:TYPE II

MANUFACTURER: MDC INTERIOR SOLUTIONS STYLE: LEN-TEX CONTRACT - BARISTA COLOR: RISTRETTO 3700BA NOTES: GENERAL WALLCOVERING - ALL AREAS EXCEPT STOCKROOM, RESTROOM, AND MECHANICAL

## BASE

<u>MARK:</u> <u>B1</u> TYPE: RUBBER MANUFACTURER: JOHNSONITE - TARKETT COLOR: CASTAWAY SIZE: 4 1/8" - W/ TOE STYLE: CB TA3 4 X 4 1/8 TOE NOTES:

<u>B2</u> CARPET TARKETT - FSI GARDEN WALK - SPLENDOR (MATCH C1) 3-3/4" TALL INSTALL ON OPEN WALLS AND BASE OF ALL CABINETRY & FIXTURES (AFTER CABINETRY

HAS BEEN INSTALLED ITSELF)

3

## FLOOR COMBINATIONS

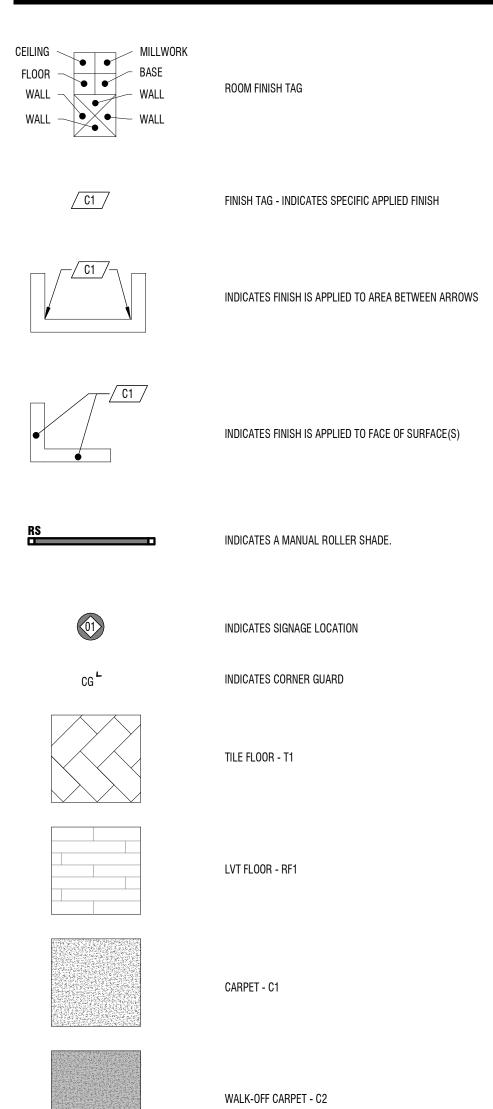
<u>MARK:</u> <u>2A</u>

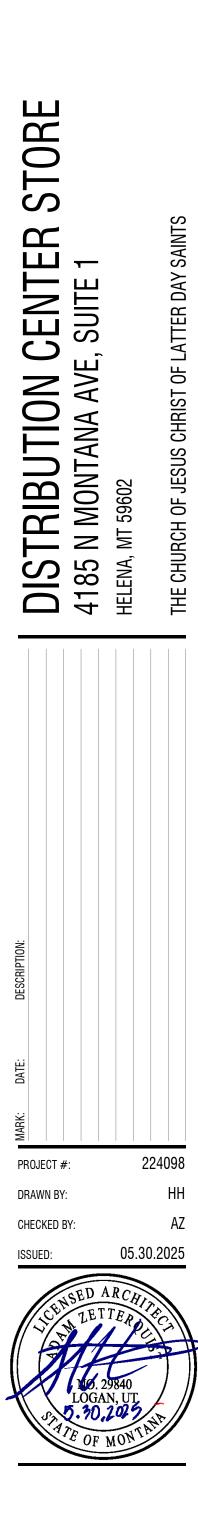
LOCATION: SELLING FLOOR DESCRIPTION: C1 AND C2 - SEE FINISH PLAN FOR FLOORING LAYOUT

# GENERAL NOTES

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# FINISH LEGEND





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1. 2.	GENERAL MECHANICAL NOTES			HEATING AND VENTILATION NOTES
2.	Contractor is responsible for all permits, licenses, fees, and charges as required by authority having jurisdiction for the performance of the work as outlined in these contract documents.	1.	Flues & a.	Breeching All HVAC flues and vents shall be constructed in accordance with the International Fuel Gas code of 2021.
	The contractor shall be responsible for installing a complete and functional system in accordance to the intent of the plans and written specifications.		b.	Combustion air - shall terminate with spill box and baffle to diffuse cold a and protect water lines.
3.	All mechanial shall be in accordance with the local regulations and the International Mechanical Code of 2021, and amendments by the local jurisdiction.		C.	Provide minimum 1" clearance from combustibles for "B" vent and 6" for single wall vent connections.
4. 5.	Contractor to coordinate work with other disciplines. Drawing is diagrammatic and is not to be scaled. Refer to architectural plans or field measurements for dimensions.	2.	d. Balanc	Use approved PVC venting (flue/combustion air) as per manufacturer instructions on condensing furnaces, boilers and water heaters.
6.	Contractor shall verify all existing construction prior to submitting his bid. No extras will be paid due to unanticipated existing conditions.	2.	a.	Upon completion balance air flows to values indicated. Provide an air balance report to the engineer for review.
7.	Contractor to verify all site conditions including progress of construction prior to fabrication of ductwork or any other fabricated mechanical item for possible routing		b. c.	Report balancing measurements on the as-built drawings. Air and water balancing shall be at+/- 10% of specified complete with
8.	collision. Inform engineer of any problems prior to fabrication. Coordinate all roof and wall penetrations required with the general contractor. Provide all flashings, sleeves, curbs, reinforcing angles, supporting frames, etc.			<ul> <li>design versus actual readings.</li> <li>Fans: Supply and exhaust fans, air systems amps, rpm, cfm, suction and discharge static pressure. Grilles - supply, return an</li> </ul>
9.	which is required unless called out to be furnished by others. Contractor to provide submittal to Engineer for review prior to acquiring equipment			<ul> <li>Sketch layout of duct systems showing details of balance.</li> </ul>
	as soon as possible after contract award. Equals will require review from engineer and owner to verify fitness as per Mechanical Alternate Note. All control devices	3.	sealant	lking on building penetrations shall be a 1-component non-sag urethane t.
	shall be included with submittals. Equipment and fixture substitutions that are not listed on these contract documents shall not be allowed without the prior written	4.	Fire Sa a.	Combination fire and smoke dampers or fire dampers in ductwork throug
10.	approval of the owner. Extra charges - any discrepancies and omissions discovered shall be reported to the engineer immediately and prior to tender closing for rectification by addendum.			all floors and fire walls shall be furnished and installed as required to conform to the latest NFPA bulletin concerning this type of building and shall bear the UL label. Dampers, complete with mounting angles, shall
11.	The proper performance of the control system is the responsibility of the contractor.			be multi-blade, fusible link, spring acting with 11-gauge sleeve. Fusible link shall be rated at 165°F.
12.	Shop drawings - submit 1x copy in pdf format to the engineer for approval. Provide 2x printed copies of reviewed shop drawings to owner in 2x O&M manuals within 90 days of acceptance. The contractor shall ensure that equals for the major		b.	Fire dampers - shall be type "B", UL labeled, with damper blades fully clear of the air stream, seal with Dow Corning RTV silicone foam. Provid access door at all fire dampers.
13.	equipment fit in the allocated space and meet codes and specifications. Upon completion contractor shall prepare a set of as-built drawings in		С.	Provide sheet metal fire stops tight around ducts passing through fire separations and ceilings. Run to kitchen WC or dryer exhaust ducts inside
14.	AutoCAD/Revit format and provide pdf printouts for review by engineer. Maintenance manuals - contractor shall provide 2x copies complete with shop		d.	party or corridor rated walls. The HVAC systems shall be constructed in accordance with NFPA
	drawings. Three ringer binder style is acceptable. Provide on-site operating seminar to familiarize owner with all functions of new equipment. Submit			101:7-2 and NFPA 90A "standard for the installation of air conditioning a ventilation systems.
15.	maintenance manuals within 90 days of project acceptance. As-built drawings - mechanical contractor shall keep on site an extra set of drawings and specifications on which changes shall be noted daily. As-built	5.		Smoke detector shall be installed on all systems greater than 2,000 CFM ctor is responsible for providing balancing dampers, even if not indicated, or ply systems and where required on exhaust/return systems.
	drawings and specifications on which changes shall be noted daily. As-built drawings shall also be provided showing location of access doors, clean-outs, and any deviation from design drawings. Submit as-built drawings within 90 days of		an supp a. b.	Dryer exhaust ducts shall not be equipped with balancing dampers. Provide access panels/consealed/semi-consealed flush mounted
16.	project acceptance. Warranty - mechanical contractor shall provide written warranty on his system for			adjustment point to all balancing dampers where there is not a lift out ceiling type installed.
17.	one full year from time of acceptance by the owner. Structural - misc. Steel support hangers for unit heaters, fans, heat pumps, etc. Shall be by the mechanical with clamps to structure, not welded. Structural	e	c. Contra	Provide access panels to all fire dampers where there is not a lift out ceiling type installed.
18.	Shall be by the mechanical with clamps to structure, not welded. Structural reinforcing for equipment is by general contractor. Electrical coordination - motor disconnect switches and starters (including	6. 7.	shown	ctor is responsible to provide and install condensate system even if not on drawings. Mount condensate and refrigerant lines as high as possible. ews shall be used in construction of dryer vent ducts.
10.	magnetic starters for interlocking) shall be by electrical contractor unless otherwise specified. Disconnects for packaged makeup air units shall be by electrical	7. 8.	Wiring: a.	All controls supplied by mechanical. Control wiring by HVAC contractor.
	contractor. Electrical contractor shall wire in low voltage and line voltage thermostats, electric heaters and control transformers provided by mechanical		b.	Final connections by HVAC contractor. All line voltage by electrical.
10	contractor. Mechanical contractor shall complete low voltage controls wiring. Confirm voltages on site before ordering equipment.		c. d.	DC and low voltage by mechanical. All equipment disconnects by mechanical unless otherwise indicated. Cooridnate with electrical.
19. 20.	Duct dimensions on plans are finished inside dimensions. Sleeving - mechanical contractor shall be on site to sleeve mechanical openings through concrete, to flash and counter flash and to coordinate joist locations away	9.		s Panels: Fabricate access panels according to SMACNA's "HVAC Duct uction Standards - Metal and Flexible"; Figures 7-2, "Duct Access Doors
21.	from mechanical shafts. Design documents - these design documents are prepared solely for the use by	10.	and Pa	inels," and 7-3, "Access Doors - Round Duct. ition: Access Doors.
	the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party		а.	Install duct access doors at: • Upstream of coils
	with whom the design professional has not entered into a contract.			<ul> <li>Upstream of filters</li> <li>At outdoor-air intakes/mixed-air plenums</li> <li>At drain pans/seals</li> </ul>
	AIR DUCT NOTES			<ul> <li>At drain pans/sears</li> <li>Downstream of dampers and equipment</li> <li>Near fire/smoke dampers for fusible link access</li> </ul>
1.	Dimensions: a. Duct dimensions shown on plans are final inside clear area. b. Duct sizes shall be verified for clearances at the job site prior to			<ul><li>Every 50 feet and direction change</li><li>Upstream of turning vanes</li></ul>
	fabrication. Dimensions may be changed to accommodate construction clearances. Free area of duct shall be maintained.			<ul> <li>At duct silencers</li> <li>At control devices</li> </ul>
2.	Duct material shall be as follows unless otherwise indicated: a. Round supply/return air: ASTM A653 Z90 - Standard specification for steel		b. c.	<ul> <li>Where indicated.</li> <li>Install doors to swing against duct static pressure.</li> <li>Door Sizes:</li> </ul>
	sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-dip Process b. Rectangular supply/return air: ASTM A653 Z90 - Standard specification for		0.	<ul> <li>Inspection: 8" x 5"</li> <li>Two-Hand: 12" x 6"</li> </ul>
	<ul> <li>B. Rectangular supply/return air: ASTM A653 Z90 - Standard specification for steel sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-dip Process</li> </ul>			<ul> <li>Head/Hand: 18" x 10"</li> <li>Head/Shoulders: 21" x 14"</li> </ul>
	<ul> <li>Runouts to diffusers: spiral wound flexible galvanized spiral to SMACNA standards.</li> </ul>		J	<ul> <li>Body: 25" x 14"</li> <li>Body + Ladder: 25" x 17"</li> </ul>
	d. Exhaust duct: ASTM A653 Z90 - Standard specification for steel sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the		d.	<ul> <li>Access Door Materials and Finishes:</li> <li>Construct access doors using same material as ductwork.</li> </ul>
	<ul> <li>Hot-dip Process.</li> <li>e. Transitions shall conform to SMACNA.</li> <li>f. Thickness, fabrication, reinforcement and joints to SMACNA.</li> </ul>			PLUMBING IN RETURN AIR PLENUMS
	<ul> <li>g. Flex connections - provide flex connections 1/4" Duro Dyne Excelon PVC coated polyester at inlet and outlets of all forced air units.</li> </ul>	1. 2.	All mat	Il ceiling spaces as return air plenums. erials used in return air plenums must have flame-spread index of 25 or nd smoke-developed index of 50 or less when tested in accordance with
	<ul> <li>Flexible duct - Thermaflex S-LP-10 insulated. M-KE insulated, maximum</li> <li>10 ft connector length per air outlet unless oversized to not exceed 0.1"</li> </ul>			E84 or UL 723 (be plenum rated).
3.	WC pressure drop per 100-ft. Coordinate with engineer. Contractor may be responsible for engineering evaluation costs. Duct sealer/tape:		0	IECC CLOSE OUT REQUIREMENTS
5.	<ul> <li>All joints shall be made airtight by approved methods, including tapes, mastics, gasketing or other approved closure systems.</li> </ul>	1. 2.	testing	ctor to provide to the owner and design engineer a preliminary equipment report prior to final mechanical inspection. ctor to provide to the owner the following items within 90 days of receiving
	<ul><li>b. Tape alone cannot be substituted for mechanical fasteners.</li><li>c. Tapes and mastics used to seal ductwork must be listed and labeled in</li></ul>			ate of occupancy. As-Build drawings showing installed equipment.
	accordance with UL 181A and shall be marked "181A-P" for pressure- sensitive tape, "181A-M" for mastic or "181A-H" for heat sensitive tape.		b.	Operating and maintenance manuals including routine maintenance requirements, name and address of servicing agency, narrative of
	<ul> <li>Tapes and mastics used to seal flexible air ducts shall comply with UL</li> <li>181B and shall be marked "181B-FX" for pressure sensitive tape, or</li> <li>"181B-M" for mastic.</li> </ul>		c. d	controls, and recommended operating setpoints. System balancing report. Equipment testing report
	e. Mechanical fasteners used with flexible non-metallic air ducts shall comply with UL 181 and shall be marked "181B-C". Flexible connectors shall not		d.	Equipment testing report. MECHANICAL ALTERNATE NOTE
	f. Seal per Duct Seal Class schedule.	1.		ate mechanical equipment is acceptable.
Л	<ul> <li>g. Do not use gray duct tape, foil backed tape, oil based caulking and glazing compounds to seal metal ducts.</li> <li>Seams:</li> </ul>		a. b	Alternates must be equal or better in performance, durability, and warranty.
4.	<ul> <li>Seams:</li> <li>a. All metal longitudinal seams shall be SMACNA listed seam. Do not use button punch snap-back seams.</li> </ul>		b.	It is the contractors responsibility to ensure that form, fit and function between alternates and specified equipment is maintained and coordinated with other disciplines.
	<ul> <li>Seal all seams and ducts to the relevant SMACNA class for ductwork being installed</li> </ul>			LOW PRESSURE DUCT NOTE
5.	Refer to SMACNA Seismic Restraint Manual for Mechanical Systems, 3rd Edition for detailed support notes, support spacing and support type. Obtain SHL value	1.	Provide	e all ducts to SMACNA standard for low pressure duct, < 2" WC.
6.	from engineer. Insulation: a. Insulate all interior supply and return duct with minimum R-6 duct			SEISMIC CONTROL NOTES
	<ul> <li>Insulate all interior supply and return duct with minimum R-6 duct insulation. All components used (insulation, jackets, mastics, adhesives, and tapes) must havge flame-spread index of 25 or less, and smoke-</li> </ul>	1.		tight to structure.
	developed index of 50 or less when tested in accordance with ASTM E 84 or 723 (be plenum rated). Insulation shall be securily buttoned or lapped	2.	Provide	c control measures not to jeopardize noise and vibration isolation systems e 1/4" to 3/8" clearance during normal operation of equipment and systems an seismic restraint and equipment
	<ul> <li>and sealed.</li> <li>Insulate all exterioir supply and return duct with minimum R-6 duct</li> <li>insulation in addition to the interior duct insulation - Insulation applied to</li> </ul>	3.	Incorpo	en seismic restraint and equipment. prate seismic restraints into vibration isolation system to resist complete r unloading.
	insulation in addition to the interior duct insulation. Insulation applied to exterior duct must have metal jacket. All components used (insulation, jackets, mastics, adhesives, and tapes) must havge flame-spread index of		JUDIALUI	THERMOSTAT NOTES:
	25 or less, and smoke-developed index of 50 or less when tested in			ogrammable thermostat with minimum 4 daily setpoints and auto veen heating and cooling, minimum 2-stage heating and cooling capability
	accordance with ASTM E 84 or 723 (be plenum rated) Insulation shall be		ight setba	ck mode. Install in thermostat in lockbox. Setback to 55 F heat and 85 F /w 2 hour occupant override, 10 hour backup and 5 F deadband and
7.	accordance with ASTM E 84 or 723 (be plenum rated). Insulation shall be securily buttoned or lapped and sealed. Clean ductwork prior to installation of diffusers.	cool		
7.	securily buttoned or lapped and sealed.		int overlap	
7.	securily buttoned or lapped and sealed.	setpoi		NEW ROOF PENETRATION NOTE
7.	securily buttoned or lapped and sealed.		Coordi	
7.	securily buttoned or lapped and sealed.	setpoi	Coordii warran	NEW ROOF PENETRATION NOTE
7.	securily buttoned or lapped and sealed.	setpoi	Coordii warran	NEW ROOF PENETRATION NOTE nate all new roof penetrations with structural and roof contractor holding ty on roof. Roof warranty must not be affected by any work.
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# ILATION NOTES

#### with spill box and baffle to diffuse cold air rom combustibles for "B" vent and 6" for

ust fans, air systems amps, rpm, cfm, tatic pressure. Grilles - supply, return and stems showing details of balance.

l be a 1-component non-sag urethane npers or fire dampers in ductwork through

UL labeled, with damper blades fully Dow Corning RTV silicone foam. Provide ght around ducts passing through fire

kitchen WC or dryer exhaust ducts inside structed in accordance with NFPA d for the installation of air conditioning and

d on all systems greater than 2,000 CFM. alancing dampers, even if not indicated, on n exhaust/return systems. equipped with balancing dampers.

or low pressure duct, < 2" WC.

mal operation of equipment and systems on isolation system to resist complete

NY DISCREPANCY, GIVE PRECEDENCE

Sheet Number Sheet Name M100 MECHANICAL OVERVIEW MECHANICAL PLAN

M101

RA =

SA =

OA =

REA =

FLUE =

CA = (T) = (S)=

MECHANICAL LEGEND

MECHANICAL SCHEDULES M102

SHEET LIST - MECHANICAL

Current Issue

#### DUCT SEAL CLASS

	Sup	Supply			
	< 2" WG	> 2" WG	Ex		
Outdoors	A	A			
Unconditioned Spaces	В	A			
Exposed Ductwork in Conditioned Spaces	С	В			
Concealed Ductwork in Conditioned Spaces	A	А			

MECHANICAL SMACNA SEISMIC HAZARD LEVEL COMPONENT SHL VALUE Air Side HVAC С Ducts С

RETURN AIR DUCT

SUPPLY AIR DUCT

RELIEF AIR DUCT

OUTSIDE AIR DUCT

MECHANICAL FLUE

REMOTE TEMPERATURE SENSOR

COMBUSTION AIR

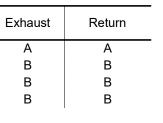
THERMOSTAT

DESIGN CONDITIONS

Helena, Montana
-13°F
72°F
93°F
3,996 FT

4

**Current Revision Description** 



Z



1 <u>3 - ROOF MECHANICAL - CONSTRUCTION</u> 3/16" = 1'-0"



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RM

# ISSUED:

1026 PROJECT #: ZR DRAWN BY: HB CHECKED BY: 4/22/25

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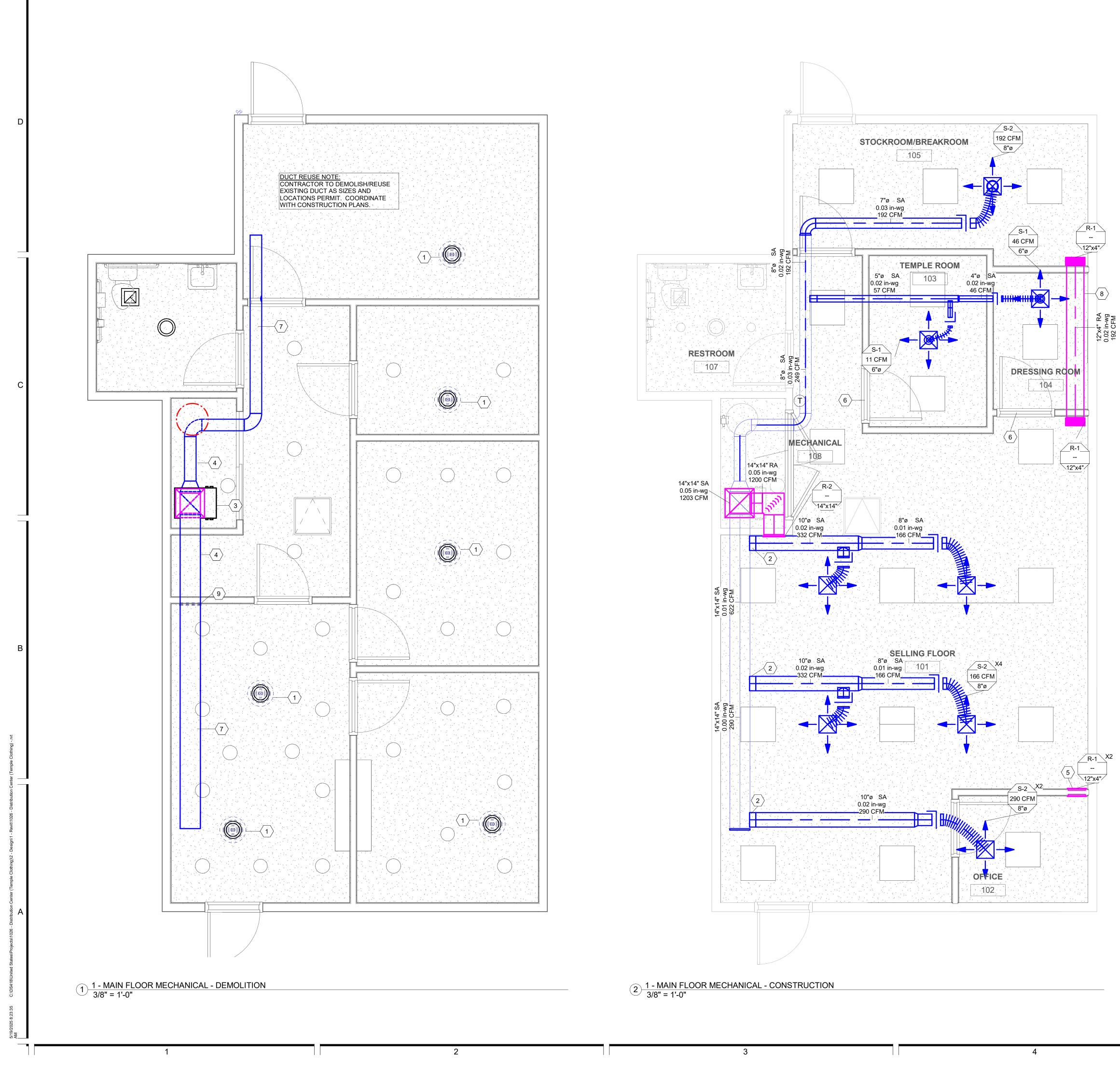
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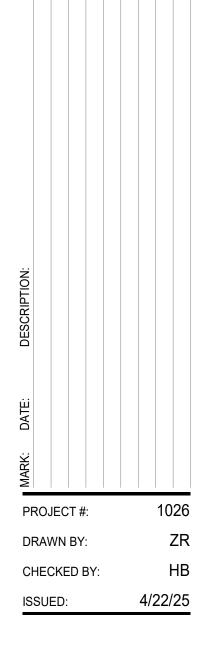
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## MECHANICAL PLAN

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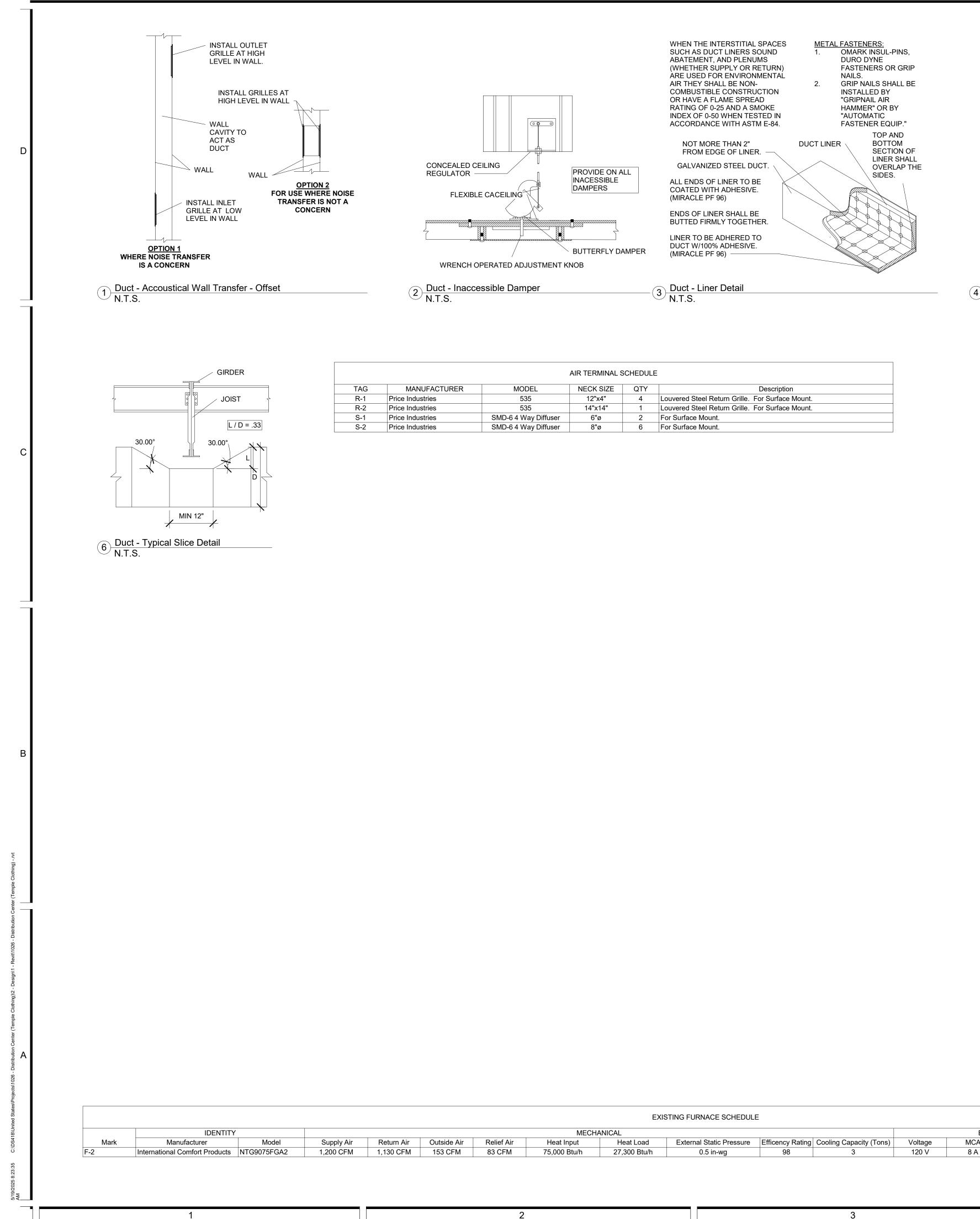
M101

#### KEYNOTES

- DESCRIPTION
- 1 DEMOLISH EXISTING DIFFUSER AND PREPARE DUCT FOR CONNECTION INTO NEW DIFFUSER.
- 2 CONNECT NEW DUCT INTO EXISTING DUCT.
- 3 EXISTING FURNACE TO REMAIN.

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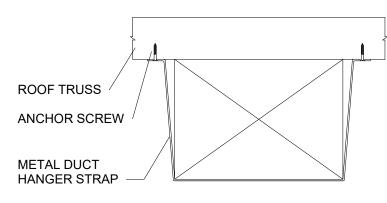
- 4 EXISTING MAIN DUCT TRUNK TO REMAIN.
- 5 INSTALL TRANSFER GRIILE AT LOW LEVEL IN WALL. INSTALL OPPOSITE TRANSFER GRILLE AT HIGH LEVEL IN WALL. KEEP STUD CAVITY UNOBSTRUCTED. SEE DETAILS.
- 6 UNDERCUT DOOR 1 INCH. 7 REUSE EXISTING DUCT IF SIZES MATCH CONSTRUCTION DRAWINGS.
- 8 INSTALL ACCOUSTICAL LINER IN RETURN DUCT. SEE
- SPECIFICATIONS.
- 9 DEMOLISH EXISTING RETUN SYSTEM AND PREPARE TO INSTALL NEW RETURN. SEE CONSTRUCTION PLAN.



THIS IS A SIMPLIFIED DETAIL FOR DUCTS LESS THAN 20X20 ONLY. REFER TO SMACNA Seismic Restraint Manual for Mechanical Systems, 3RD EDITION FOR DETAILED NOTES AND DUCT SUPPORTS.

BRACE DUCTS AS PER SMACNA Seismic Restraint Manual Guidelines for Mechanical Systems, 3RD EDITION. OBTAIN SHL VALUE FROM ENGINEER.

SEE SMACNA Seismic Restraint Manual Guidelines for Mechanical Systems, 3RD EDITION FOR SPACING OF BRACES AND SEISMIC NOTES SUPPLIED WITH THESE DRAWINGS.



4 Duct - Tight to Structure Rectangular Hanger - Strap N.T.S.

R TERMINAL SCHEDULE							
NECK SIZE	QTY	Description					
12"x4"	4	Louvered Steel Return Grille. For Surface Mount.					
14"x14"	1	Louvered Steel Return Grille. For Surface Mount.					
6"ø	2	For Surface Mount.					
8"ø	6	For Surface Mount.					

MECHA	NICAL			ELECTRICAL						FUEL		
	Heat Load	External Static Pressure	Efficency Rating	Cooling Capacity (Tons)	Voltage	MCA	MOP	Phase	Flue Connection	Fuel		
'n	27,300 Btu/h	0.5 in-wg	98	3	120 V	8 A	15 A	1	2"	NG		

THIS IS A SIMPLIFIED DETAIL FOR DUCTS LESS THAN 20X20 ONLY. REFER TO SMACNA Seismic Restraint Manual for Mechanical Systems, 3RD EDITION FOR DETAILED NOTES AND DUCT SUPPORTS.

BRACE DUCTS AS PER SMACNA Seismic Restraint Manual Guidelines for Mechanical Systems, 3RD EDITION. OBTAIN SHL VALUE FROM ENGINEER.

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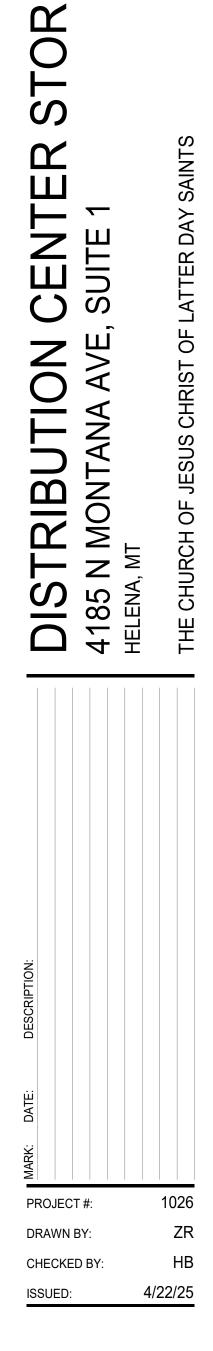
ROOF TRUSS ANCHOR SCREW METAL DUCT HANGER STRAP (SPACE AT 24" OR 32" O.C.) —

5 Duct - Tight to Structure Round Hanger - Strap N.T.S.



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## MECHANICAL SCHEDULES

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M102

Gas Connection 1/2"

	GENERAL PLUMBING NOTES	GENERAL PLUMBING PROTECTION NOT
	<ol> <li>GENERAL         <ul> <li>Generation is responsible for all permits, licenses, fees and charges as required by authority having jurisdiction for the</li> </ul> </li> </ol>	<ol> <li>Install backflow preventers in each water supply to mechani and systems and to other equipment and systems and to ot and water systems that may be sources of contamination.</li> </ol>
	<ul> <li>b. performance of the work as outlined in these contract documents.</li> <li>b. The contractor shall be responsible for installing a complete and functional system in accordance to the intent of the plans.</li> </ul>	<ul> <li>authorities having jurisdiction.</li> <li>Locate backflow preventers in same room as connected equisitem.</li> </ul>
	c. All Plumbing shall be in accordance with local regulations and the Uniform Plumbing Code of 2021.	<ol> <li>Install drain for backflow preventers with atmospheric-vent of with air-gap fitting, fixed air-gap fitting, or equivalent positive</li> </ol>
	<ul> <li>d. Contractor to coordinate work with other disciplines.</li> <li>e. Drawing is diagrammatic and is not to be scaled. Refer to</li> </ul>	of at least two pipe diameters in drain piping and pipe-to-floo air-gap device attached to or under backflow preventer. Sim
D	<ul> <li>architectural plans or field measurements for dimensions.</li> <li>f. Contractor shall verify all existing construction prior to submitting his bid. No extras will be paid due to unanticipated existing</li> </ul>	<ul> <li>are unacceptable for this application.</li> <li>4. Do not install bypass piping around backflow preventers.</li> <li>5. Provide water pressure regulator when required by authority</li> </ul>
D	g. Extra charges - any discrepancies and omissions discovered shall be reported to the engineer immediately and prior to tender	jurisdiction and in compliance with the Uniform Plumbing Co
	closing for rectification by addendum. h. Shop drawings - submit 1 copy in pdf format to the engineer for	SEISMIC CONTROL NOTES
	approval. Provide 2 printed copies of reviewed shop drawings to owner in 2 O&M manuals. The contractor shall ensure that equals for the major equipment fit in the allocated space and meet codes	<ol> <li>Install tight to structure.</li> <li>Seismic control measures not to jeopardize noise and vibrat systems. Provide 1/4" to 3/8" clearance during normal operation</li> </ol>
	<ul> <li>and specifications.</li> <li>Maintenance manuals - contractor shall provide 2 copies complete with shop drawings. Three ringer binder style is</li> </ul>	<ul> <li>and systems between seismic restraint and equipment.</li> <li>Incorporate seismic restraints into vibration isolation system complete isolator unloading.</li> </ul>
	acceptable. Provide on-site operating seminar to familiarize owner with all functions of new equipment j. Warranty - mechanical contractor shall provide written warranty on his system for one full year from time of acceptance by the	PLUMBING IN RETURN AIR PLENUM
	owner. k. Excavation - plumbing contractor shall excavate for his work and	<ol> <li>Treat all ceiling spaces as return air plenums.</li> <li>All materials used in return air plenums must have flame-s</li> </ol>
	back fill to 2" above pipes with sand. I. Structural - Misc. Steel support hangers for unit heaters, fans, heat pumps, etc. Shall be by the mechanical with clamps to	<ol> <li>All materials used in return air plenums must have flame-s</li> <li>25 or less, and smoke-developed index of 50 or less wher</li> <li>accordance with ASTM E84 or UL 723 (be plenum rated).</li> </ol>
	structure, not welded. Structural reinforcing for equipment is by general contractor.	GENERAL SANITARY NOTES
	m. As-built drawings - mechanical contractor shall keep on site an extra set of drawings and specifications on which changes shall	
	be noted daily. As-built drawings shall also be provided showing location of access doors, clean-outs, and any deviation from design drawings.	<ol> <li>Provide chrome escutcheon cover plates at all pipe penetra wall surfaces.</li> <li>Vents through roof shall be min. 3" diameter at penetration u</li> </ol>
	n. Potable water copper piping shall use lead-free solder. testing inside water lines shall hold 100 psi air for 1 hour.	indicated. Provide all required flashing to make vent penetra waterproof.
	o. Natural gas - plumber shall provide low pressure gas lines to appliances complete with yellow paint coating on pipe where	3. Space floor cleanouts no more than 100ft. Provide floor cleanouts horizontal drains where the direction change by more than 4
	exposed to outdoors. Confirm meter size with local gas utility company. Utility upgrade costs to be borne by owner. p. Plumbing contractor shall be on site to sleeve Plumbing openings	<ul> <li>Cleanout size shall be the same than the piping served.</li> <li>Provide a trap guard for all floor drains.</li> <li>Mount wall cleanouts at all wall mounted plumbing fixture dr</li> </ul>
	through concrete, to flash and counter flash and to coordinate joist locations away from mechanical shafts.	
С	q. Design documents - these design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any	PLUMBING ALTERNATE NOTE
	entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract. r. The written book specification takes precedence over these	<ol> <li>Alternate plumbing equipment is acceptable. Alternates mu better in performance, durability, and warranty.</li> </ol>
	notes. GENERAL PIPING NOTES	REFER TO BOOK SPEC. WHERE THERE IS ANY DISCREPANC TO BOOK SPECIFICATIONS
	1. Piping material shall be as follows (Unless otherwise indicated in	
	specification): a. Underground water service: PEX-AL-HDPE with oxygen barrier.	
	<ul> <li>b. Above ground hot and cold water piping: Copper type L in exposed areas or Standard PEX in concealed areas.</li> <li>c. Drain waste and vent piping: Schedule 40 PVC DR22</li> </ul>	
	<ul><li>d. Gas piping: to ASTM A106 schedule 40.</li><li>e. Poolroom/Pool Equipment Room: Stainless Steel 316 (to NSF 61</li></ul>	
	and one of the following ASTM A312 or ASTM A778), CPVC Schedule 40 (to NSF 61 and one of the following ASTM D2846, ASTM F441, ASTM F442, CSA B137.6) or Polypropylene plastic	
	(PP to NSF 14 and one of the following ASTM F2389 or CSA B137.11) pipe rated for pool rooms (AquathermBlue for non-potable	
	service) SDR 7.4 or heavier. AquathermBlue pipe shall be marked as "NOT POTABLE".	
	<ol> <li>Domestic hot, hot water recirculation and hydronic lines shall have minimum</li> <li>1" thermal insulation with minimum R-value of R-4 (unless otherwise indicated) c/w vapor barrier. Joints to be taped throughout facility. Hangers</li> </ol>	
	to have guides to allow for complete pipe insulation. Pipe insulation in plenums to be plenum rated. See note: PLUMBING IN RETURN AIR	
	<ul> <li>PLENUMS.</li> <li>3. Contractor is responsible for routing water piping around zones that would be appreciated for any series and the series are series.</li> </ul>	
	be prone to freezing. The contractor will be responsible for any repairs and corrections to water lines not appropriately routed around freeze prone zones.	
	4. Valves on water lines shall be bronze ball valves. Do not use gate or globe valves. Valve size shall be the same than the inlet pipe size.	
В	<ol> <li>Install water hammer arrestors as indicated by code and where shown on plans. Concealed location arrestors are to be rated.</li> <li>All hot and cold domestic water lines to fixtures shall be minimum 1/2".</li> </ol>	
	<ol> <li>Unless a hot water recirculation system has been called for in the contract documents, domestic hot water lines shall be equipped with a heat-trace</li> </ol>	
	heating system in compliance with Table C404.5.1 of the current state approved International Energy Conservation Code. Heat trace at 21 Watts/Linear foot.	
	<ol> <li>Plumbing piping shall not be installed above electrical panels. Provide required clearances per "N.E.C." coordinate work with electrical contractor.</li> </ol>	
	<ol> <li>Caulk all pipe penetrations through fire rated walls. All caulking on building penetrations shall be a 1-component non-sag urethane sealant.</li> </ol>	
g)rvt	<ol> <li>Provide intumescent pipe donuts at all penetrations of combustible piping form main floor ceiling space and main floor fire separations.</li> <li>After completion of construction all water supply systems must be purged of</li> </ol>	
le Clothin	all deleterious matter and disinfected. as per IPC 602.3.4 and IPC 610.	
iter (Temp	GENERAL PLUMBING FIXTURE NOTES	
ution Cen	<ol> <li>All plumbing fixtures shall be furnished c/w necessary traps, stops, tail pieces, trim, shut-off valves, circuit setters on hot water recirc. etc.</li> <li>Blumbing contractor to supply and coordinate all plumbing fixture voltage</li> </ol>	
- Distribu	<ol> <li>Plumbing contractor to supply and coordinate all plumbing fixture voltage and power requirements with electrical contractor.</li> <li>All water heaters and hot water storage tanks shall have a drain valve</li> </ol>	
evit\1026	installed at the bottom of the tank as required by code. All water heaters shall be seismically anchored as per code.	
sign\1 - R	4. Provide sanitary venting piping for all fixtures. IECC CLOSE OUT REQUIREMENTS	
ng)/2 - De	1 Contractor to provide to the owner and design engineer a preliminary	
le Clothir	<ul> <li>equipment testing report prior to final mechanical inspection.</li> <li>Contractor to provide to the owner the following items within 90 days of</li> </ul>	
ter (Temp	receiving certificate of occupancy. a. As-Build drawings showing installed equipment.	
ution Cen	<ul> <li>Derating and maintenance manuals including routine maintenance requirements, name and address of servicing agency, narrative of controls, and recommended operating</li> </ul>	
26 - Distribu	c. System balancing report.	
C:\DS418\United States\Projects\1026 - Distribution Center (Temple Clothing)/2 - Design\1 - Revit\1026 - Distribution Center (Temple Clothing)rv1	d. Equipment testing report. GAS APPLIANCES AND REGULATIONS NOTES	
ited State	1. All gas piping shall comply with the international Fuel Gas Code of 2021.	
::\DS418\Uni	<ol> <li>Provide step-down regulators at all appliances and size as per International Fuel Gas Code of 2021.</li> <li>Vent natural gas regulators to outdoors. Terminate min. 3 ft from building openings and 10ft from mechanical interves</li> </ol>	
	openings and 10ft from mechanical intakes.	
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ROTECTION NOTES			
water supply to mechanical equipment nt and systems and to other equipment urces of contamination. Comply with			
e room as connected equipment or			
s with atmospheric-vent drain connection ng, or equivalent positive pipe separation ain piping and pipe-to-floor drain. Locate backflow preventer. Simple air breaks n. backflow preventers. hen required by authority having the Uniform Plumbing Code of 2021.			
ROLNOTES	G	=	GAS METER
	C	=	WALL CLEANOUT
opardize noise and vibration isolation	ېې	=	BALL VALVE
ance during normal operation of equipment raint and equipment.	×	=	PLUG VALVE
vibration isolation system to resist	- <del>X</del> -	=	PRESSURE REGULATOR
IRN AIR PLENUMS	DCW DHW DHWR	= = =	DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRCULATION
air plenums. nums must have flame-spread index of index of 50 or less when tested in _ 723 (be plenum rated).	SAN V S SH AIR GR-SAN	= = = = =	SANITARY VENT STORM NON-POTTABLE SHOP COLD WATER AIR LINE GREASE SANITARY LINE

# lates at all pipe penetrations of finished

iameter at penetration unless otherwise ng to make vent penetration

#### 100ft. Provide floor cleanouts in change by more than 45 degrees.

nted plumbing fixture drains.

3

eptable. Alternates must be equal or

#### IS ANY DISCREPANCY, GIVE PRECEDENCE

SHEET LIST - PLUMBING

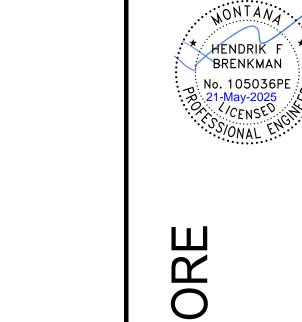
Current Issue

PLUMBING OVERVIEW P100 PLUMBING PLAN P101 P102 PLUMBING DETAILS

Sheet Number Sheet Name

4

**Current Revision Description** 



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WEST

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AREA OF SCOPE

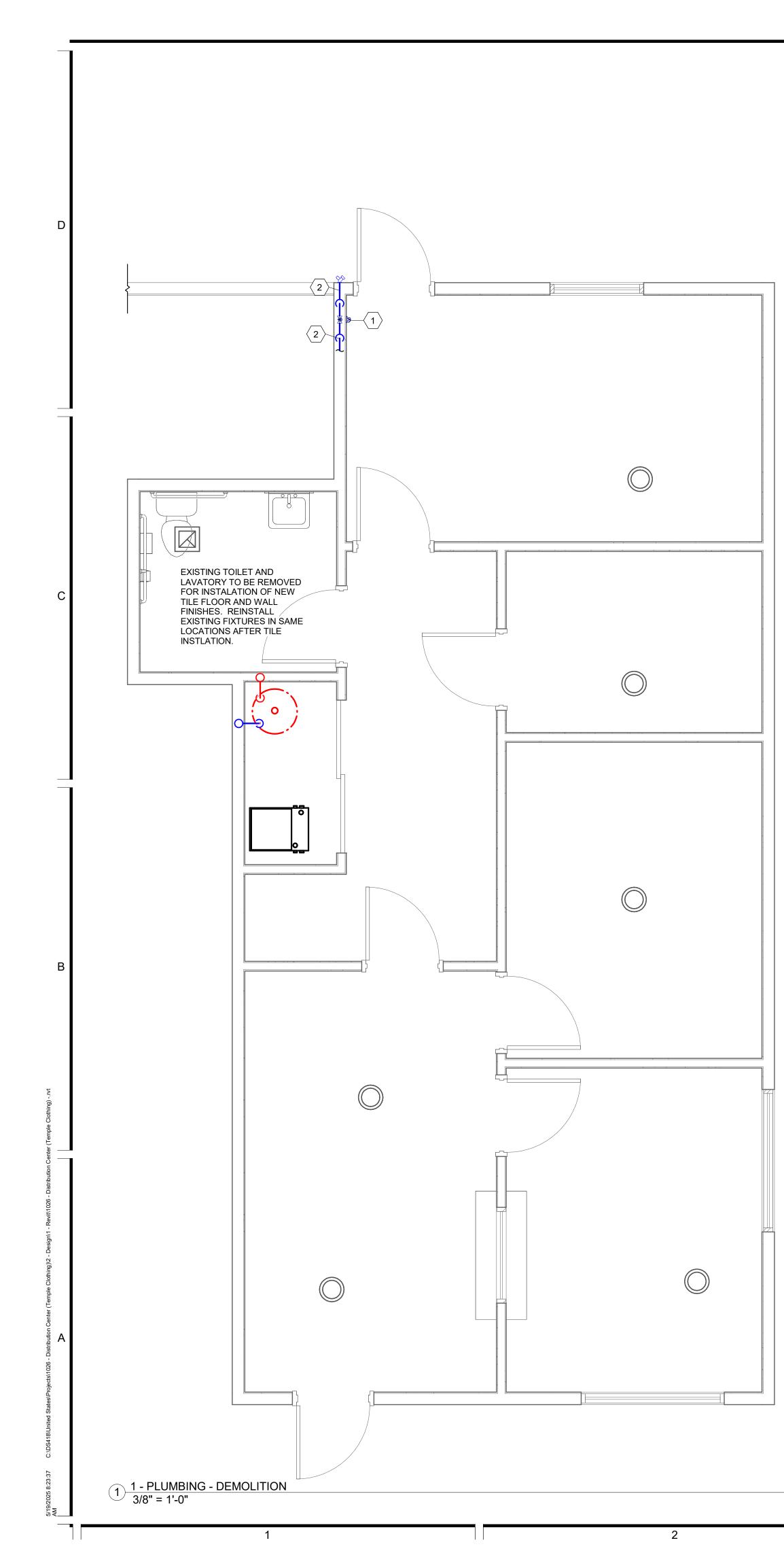
 $1 \frac{3 - \text{ROOF PLUMBING} - \text{CONSTRUCTION}}{3/16" = 1'-0"}$ 

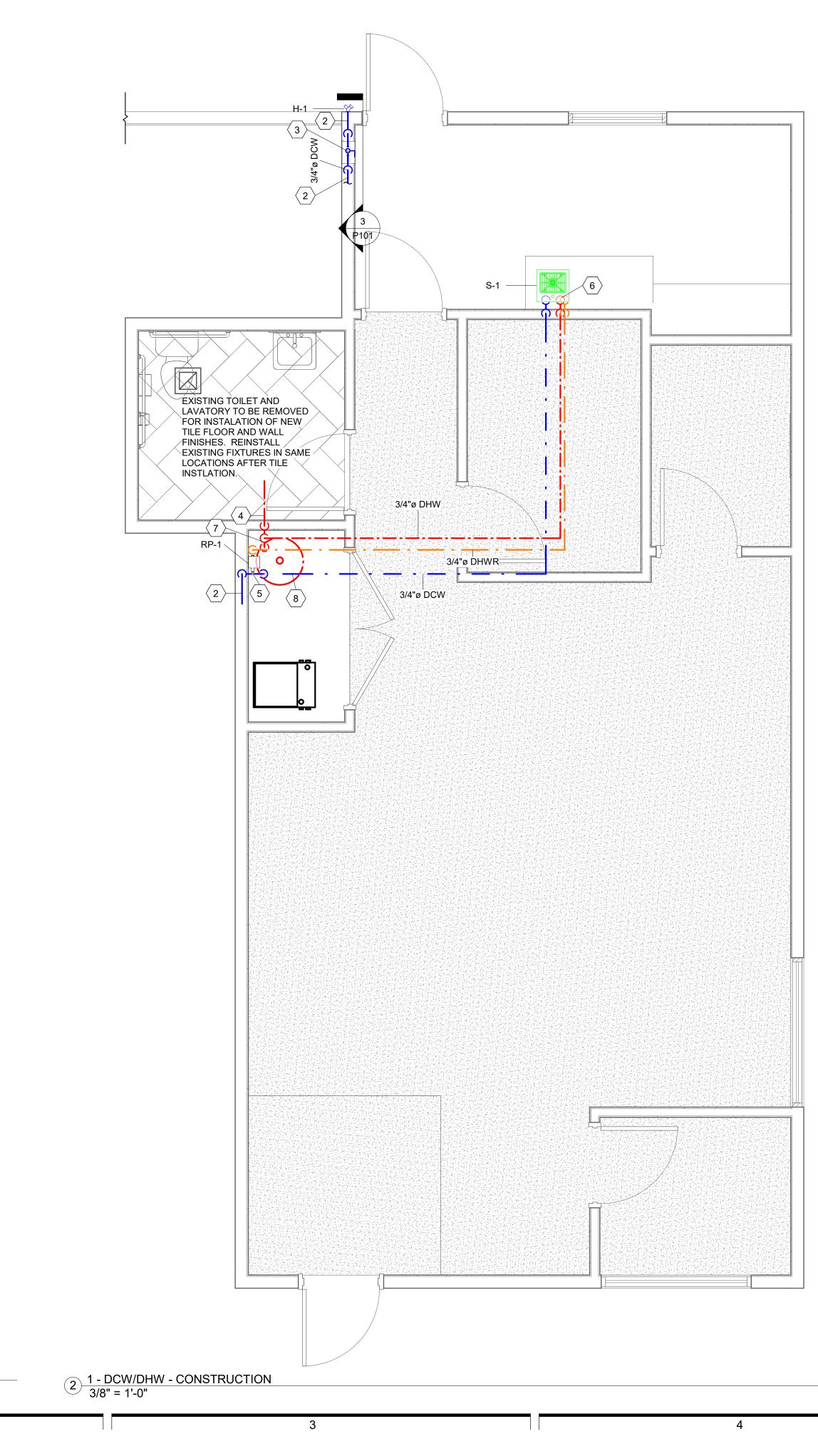
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KEYNOTES

- DESCRIPTION 1 DEMOLISH EXISTING SHOWER WALL VALVE AND PREPARE TO INSTALL IN WALL SHUT-OFF VALVE. SEE CONSTRUCTION PLANS.
- 2 EXISTING DCW LINE.
- 3 INSTALL NEW BALL ISOLATION VALVE IN LOCKING WALL BOX. PROVIDE C/W LOCKING WALL BOX.
- 4 EXISTING DHW LINE. 5 CONNECT DHW RECIRCULATION LINE
- INTO HOT WATER HEATER FEED LINE. 6 CONNECT DHW RECIRCULATION LINE
- INTO DHW LINE. CONNECTION MUST BE MAX. 6" FROM PLUMBING FIXTURE. SEE DETAILS.
- 7 RUN NEW DHW LINE BACK TO EXSISTING WATER HEATER AND CONNECT.
- 8 CONNECT NEW DCW INTO EXISTING DCW.



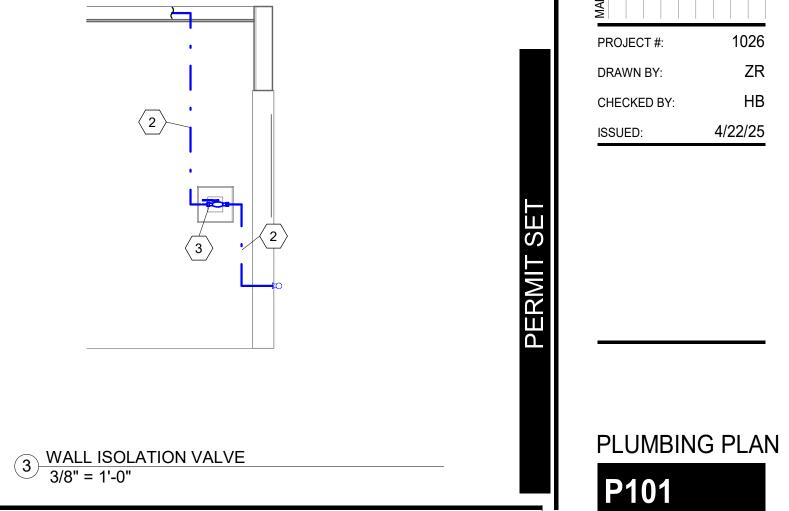
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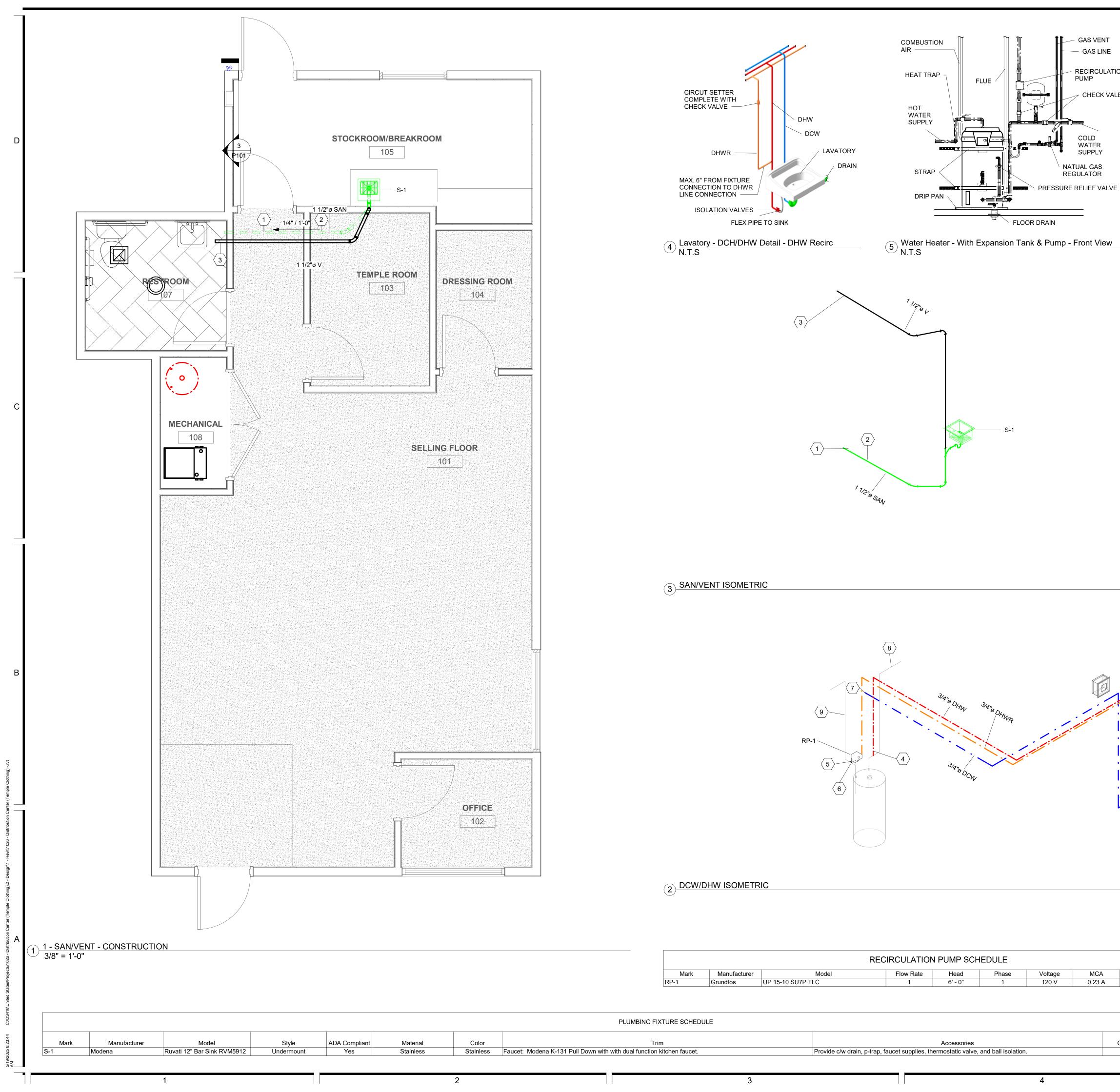


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PLUMBING FIXTURE SCHEDULE	

- GAS VENT GAS LINE

## RECIRCULATION

PUMP CHECK VALE

COLD WATER

SUPPLY

REGULATOR

KEYNOTES

- DESCRIPTION 1 TIE NEW SANITARY LINE INTO EXISTING SEWER. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING SEWER. DEPTH MUST ALLOW FOR MIN SLOPE AS INDICATED. CONTACT ENGINEER IF DEPTH OF EXISTING LINE IS NOT SUITABLE.
- 2 SAW CUT FLOOR TO RUN NEW SEWER LINE. PATCH FLOOR AND MAKE AS NEW AFTER INSTALL IS COMPLETE. COORDINATE WITH ARCHITECT/GENERAL.
- 3 CONNECT NEW VENT INTO EXISTING VENT SYSTEM. 4 RUN NEW DHW LINE BACK TO EXSISTING
- WATER HEATER AND CONNECT. 5 INSTALL NEW RECIRC PUMP ACCORDING
- TO MANUFACTURER'S INSTRUCTIONS. SEE DETAILS. 6 CONNECT DHW RECIRCULATION LINE INTO HOT WATER HEATER FEED LINE.
- 7 CONNECT NEW DCW INTO EXISTING DCW.
- 8 EXISTING DHW LINE. 9 EXISTING DCW LINE.
- 10 CONNECT DHW RECIRCULATION LINE INTO DHW LINE. CONNECTION MUST BE MAX. 6" FROM PLUMBING FIXTURE. SEE DETAILS.



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SALT LAKE CITY, UTAH

... NONTANA.

BRENKMAN

21-May-2025

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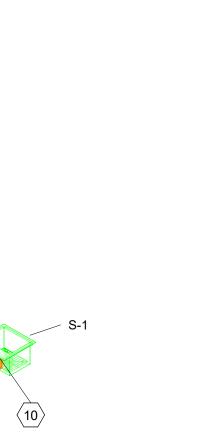
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					1		1	
				anitary		DCW	DHW	
	C	Count	Cor	nnection	Cor	nnection	Connection	1
		1	1	1/4"		1/2"	1/2"	

# PLUMBING DETAILS

P102

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PROJECT #:

DRAWN BY:

CHECKED BY:

ISSUED:

1026

ZR

HB

4/22/25

		ELECTRICAL SPECIFICATIONS			ABBR	EVIATION	<u>6</u>		ELECTRICAL	L SYME
	1. SCOPE A. THE DESCRIPTIONS OF WORK UNDER THIS SECTION SHALL INCLUDE	11. ELECTRIC WIRING A. GENERAL	14. LIGHTING FIXTURES A. ALL LIGHTING FIXTURES SHALL BE FURNISHED WITH THE PROPER		RE INTERRUP <sup>-</sup> E FINISHED FL		Y		SYMBOL	SYN
	ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE ELECTRICAL INSTALLATION AS SHOWN ON THE ACCOMPANYING	a. ROUTING OF CONDUIT SHALL BE SUITED TO THE JOB CONDITIONS AND UP TO THE ELECTRICAL CONTRACTOR UNLESS	MOUNTING ACCESSORIES TO SUIT INTENDED APPLICATION. a. ALL OUTDOOR FIXTURES SHALL BE RATED FOR THE	AWG AMER ALUM ALUM	ICAN WIRE GA INUM	UGE				DU GF
	DRAWINGS. a. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ANY	OTHERWISE NOTED. ALL TRADES DRAWINGS SHOULD BE CLOSELY REVIEWED FOR TYPE OF CONSTRUCTION AND	APPROPRIATE CONDITIONS. b. ALL LIGHTING FIXTURES SHALL BE UL LISTED.	CKT CIRCL						4 P
	CONDITIONS REQUESTED DURING THE BIDDING REQUIREMENTS. B. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE	RUNNING OF CONDUITS. NO STRUCTURAL MEMBERS WILL BE CUT WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. ALL	c. BEFORE ORDERING LIGHT FIXTURES THE ELECTRICAL CONTRACTOR WILL VERIFY EACH FIXTURES MOUNTING		ONDUIT					4 P
П	ACCOMPANYING DRAWINGS AND SPECIFICATIONS. C. ALL LABOR, MATERIAL OR EQUIPMENT NEEDED FOR THE	CONDUIT WILL BE INSTALLED AT RIGHT ANGLES TO THE BUILDING.	EQUIPMENT AND INFORM THE ENGINEER IF THERE ARE DISCREPANCIES WITH THE MOUNTING HARDWARE AND THE	CU COPP					Ф <sup>А</sup>	"A" AB(
2	INSTALLATION AND COMPLETION OF THE ELECTRICAL WORK DESCRIBED IN THE ACCOMPANYING DRAWINGS AND	<ul> <li>b. ROUGH-IN OF ELECTRICALLY OPERATED UNITS SHALL BE COORDINATED WITH THE SUPPLIERS OF EQUIPMENT.</li> </ul>	MOUNTING SURFACE OF THE LIGHT FIXTURE. IF THIS IS NOT DONE THE COSTS TO CHANGE THE MOUNTING EQUIPMENT AND	EA EACH					ф <sup>с</sup>	"C"
	SPECIFICATIONS SHALL BE PROVIDED EVEN IF NOT SHOWN ON THE ACCOMPANYING DRAWINGS.	c. HEIGHTS AND LOCATIONS OF SWITCHES, PLUGS WALL FIXTURES, ETC. SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS,	LABOR WILL BE THE ELECTRICAL CONTRACTOR RESPONSIBILITY. d. RECESSED FIXTURES SHALL BE SECURED TO THE BUILDING	EQUIP EQUIF		LIC TUBING				AB
	<ul><li>a. ELECTRICAL SERVICE AND FEEDERS</li><li>b. BRANCH WIRING AND GROUNDING</li></ul>	GENERAL CONTRACTOR, AND ALL SUBCONTRACTORS AS REQUIRED.	STRUCTURE. DROP IN FIXTURES SHALL BE SUPPORTED WITH WIRE SUPPORTS WITH A MINIMUM OF TWO (2) PER FIXTURE WITH		LOAD AMPS				<b>⊕</b> <sup>WP</sup>	WH
	c. WIRING DEVICES d. ELECTRICALLY OPERATED MOTORS AND EQUIPMENT HOOK-UP	B. RACEWAYS OR CONDUITS a. ALL CONDUIT EXPOSED TO MECHANICAL DAMAGE SHALL BE	ONE AT OPPOSITE ENDS OF EACH OTHER. WIRES TO BE SECURED TO THE BUILDING STRUCTURE AND PROVIDE FOUR (4)	G GROU GND GROU	IND				Ø	SPI EQ
	e. HVAC EQUIPMENT HOOK-UP f. ELECTRICAL DISTRIBUTION EQUIPMENT	RIGID GALVANIZED STEEL, IMC, OR AS NOTED ON THE DRAWINGS. ALL OTHER CONDUITS MAY BE ELECTRICAL	EARTHQUAKE CLIPS PER FIXTURE. e. ELECTRICAL CONTRACTOR TO VERIFY WITH GENERAL	kW KILOV					J	JUL
	<ul><li>g. LIGHTING FIXTURES WITH LAMPS</li><li>h. COMMUNICATION RACEWAY AND LOW VOLTAGE SYSTEMS AS</li></ul>	METALLIC TUBING. PVC CONDUIT SHALL BE SCHEDULE 40 OR AS NOTED ON DRAWINGS. EXPANSION COUPLINGS SHALL BE USED	CONTRACTOR IF FIRE RATED BOOTS ARE REQUIRED FOR RECESSED LIGHT FIXTURES PRIOR TO BID. NO EXTRAS WILL BE	MAX MAXIN					Y	DA
	SHOWN i. GENERATOR, EMERGENCY DISTRIBUTION AND EMERGENCY BRACH WIRING	AT ALL EXPANSION JOINTS. b. ALL CONDUIT SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER AND SHALL BE ANCHORED EVERY (8') BY MEANS OF AN	ALLOWED FOR THIS WORK. B. LAMPS SHALL BE SUPPLIED WITH FIXTURES AND SHALL BE THE TYPE AS SHOWN ON LIGHT FIXTURE SCHEDULE AND AS MANUFACTURED	MDP MAIN	CIRCUIT BREA DISTRIBUTION LUGS ONLY		C			TEL
	j. FIRE ALARM SYSTEM 2. MATERIALS AND EQUIPMENT	APPROVED METHOD OF CONDUIT SUPPORTING. c. ALL CONDUIT SIZES SHALL BE IN STRICT ADHERENCE WITH THE	BY GENERAL ELECTRIC, PHILLIPS, SYLVANIA. 15. PANELBOARD'S	NA NOT A	APPLICABLE				<u> </u>	EQ
	A. ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE UL LISTED.	CURRENT NATIONAL ELECTRICAL CODE, UNLESS WHERE THE DRAWINGS HAVE OVER SIZED THE MINIMUM REQUIREMENTS,	A. PANEL BOARDS AND SWITCHBOARDS SHALL BE SQUARE D, SIEMENS, G.E. OR CUTLER HAMMER. THE PANELS SHALL BE HOUSED IN A	NEMA NATIC	NAL ELECTRIC		TURERS ASS	OCIATION		DIS EQ
	B. ELECTRICAL CONTRACTOR SHALL SUBMIT A SET OF SHOP DRAWINGS AND CATALOG CUT SHEETS ON THE FOLLOWING ITEMS	THEN THE LARGER SIZE SHALL APPLY. C. WIRE	GALVANIZED STEEL CAN WITH HINGED COVER DOOR. THE DOOR SHALL BE KEYED DOOR LOCK WITH ALL KEYS ALIKE. ALL PAINTED	PH PHAS	E				$\overline{\bullet}$	DIS
	TO THE ARCHITECT AND GENERAL CONTRACTOR FOR APPROVAL. C. DISTRIBUTION EQUIPMENT	a. ALL CONDUCTORS RATED UNDER 100A SHALL BE COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL ALUMINUM	SURFACES SHALL BE BONDERIZED AND PAINTED WITH THREE (3) COATS OF PRIMER AND FINISH PAINT. THE PANELS SHALL BE TOP OR	QTY QUAN R REMC	TITY					DIS
	D. LIGHTING FIXTURES a. DEVICES	WIRE TERMINATIONS WILL HAVE NOLOX OR EQUAL ANTI-OXIDANT JOINT COMPOUND APPLIED TO THE TERMINATION.	BOTTOM FEED AS REQUIRED. THE PANEL SHALL HAVE A SOLID BUSING AND NEUTRAL TERMINAL PLATE, AND SHALL BE BRACED TO	TYP TYPIC V VOLTS	AL				<b>\$</b> тн	EQ SW
	<ul> <li>b. SYSTEMS</li> <li>E. IF A SUBSTITUTION OF ANY MATERIALS IS PROPOSED BY THE</li> </ul>	b. ALL WIRE SIZES #14 TO #10 SHALL BE TYPE THWN/THHN. THHN RATED WIRE SHALL NOT BE USED IN AREAS SUBJECT TO WATER	WITHSTAND THE MAXIMUM SHORT CIRCUIT INTERRUPTING CAPACITY OF ANY DEVICE MOUNTED THEREIN.	W/ WITH	AMPERE				P-1	> EQ
	ARCHITECT OR GENERAL CONTRACTOR, IT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY CHANGES BEING	SUCH AS IN CONDUITS BELOW GRADE. c. ALL WIRE SIZES #8 OR LARGER SHALL BE TYPE THWN OR THW	B. A WRITTEN CIRCUIT DATA SHALL BE PROVIDED IDENTIFYING OUTLET AND EQUIPMENT CONTROLLED PER CIRCUIT NUMBER ON CARD	W/O WITHO XFMR TRAN	OUT SFORMER				\$	SIN
	MADE. 3. STANDARD OF INSTALLATION	STRANDED UNLESS NOTED OTHERWISE. d. WIRE INSTALLED IN FIXTURE PANS SHALL BE TYPE AWM OR	PROVIDED WITH PANEL. DIRECTORY HOLDER SHALL BE FURNISHED ON INNER FACE OF HINGED DOOR. CONTRACTOR SHALL PROVIDE							LO
	A. THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, THE CITY, STATE, OR ANY LOCAL ORDINANCES AND UTILITY	THHN. e. FURNISH AND INSTALL GROUND CONDUCTOR PER THE CURRENT	TYPED CIRCUIT DIRECTORY CARD AT COMPLETION OF PROJECT. C. ALL PANEL BOARDS SHALL HAVE A GROUND BUS WITH LUGS AS						Ŭ	WA
	REGULATIONS ARE A PART OF THIS SPECIFICATION. 4. PERMITS AND UTILITY COSTS	NEC WHEN NON-METALLIC CONDUIT IS USED OR AS NOTED ON THE DRAWINGS.	REQUIRED. FURNISH ALL FUSES, SPARE FUSES AND FUSE CABINET AS NOTED ON DRAWINGS.		DEF	INITIONS			POX	CE
0	A. ANY CITY, STATE, OR LOCAL ORDINANCE ELECTRICAL PERMITS AND INSPECTIONS SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR UNLESS THE ELECTRICAL PERMIT IS	f. PROVIDE METALLIC SHEATH CABLE, MC OR AC AS PER THE CURRENT N.E.C. ARTICLE 333 AND 334. MC OR AC CABLE SHALL ONLY BE USED INSIDE FRAMED WALLS OR ABOVE HARD LID/T-	16. WIRING DEVICES A. RELATED DOCUMENTS: THE GENERAL PROVISIONS OF THE CONTRACT AND THE GENERAL CONDITIONS APPLY TO THE WORK	1. INDICATED: T					OS <sub>X</sub>	LIG SEI
C	OBTAINED THROUGH THE GENERAL CONTRACTOR. UTILITY CONNECTION FEES ARE NOT INCLUDED IN ELECTRICAL CONTRACT	GRID CEILINGS. g. BRANCH CIRCUITS FOR WHICH THE DISTANCE FROM	SPECIFIED IN THIS SECTION. B. DUPLEX RECEPTACLES	REPRESENTA OTHER PARA	GRAPHS OR S	CHEDULES IN	THE SPECIFIC	CATIONS	RÇ	LIG
	UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. 5. DRAWINGS	PANELBOARD TO THE NEAREST DEVICE ARE MORE THAN 100' THE ELECTRICAL CONTRACTOR MUST UPSIZE HIS BRANCH	a. DUPLEX RECEPTACLES SHALL BE 3-POLE GROUNDING TYPE WITH THE THIRD POLE "U" SHAPED AND GROUNDED TO THE		REQUIREMEN 1S SUCH AS "S ARE USED, IT IS	HOWN", "NOT	ED", "SCHEDL	JLED" AND		LIG
	A. THE ELECTRICAL DRAWINGS ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS AND SCOPE OF WORK TO BE PREFORMED	WIRING ACCORDING TO THE VOLTAGE DROP TABLE ON THE ACCOMPANYING DRAWINGS.	CONDUIT SYSTEM AND SHALL BE P&S, HUBBELL, LEVITON OR AN APPROVED EQUAL TO:	REFERENCE, 2. DIRECTED: TE	NO LIMITÁTION	N ON LOCATIO	ON IS INTENDE	D.		WII BR
	AND ARE NOT CONSIDERED AS COMPLETE. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL WORK INDICATED ON DRAWINGS	<ul> <li>D. BOXES AND FITTINGS</li> <li>a. ALL CONDUIT BOXES AND ASSOCIATED MATERIAL SHALL BE</li> </ul>	C. TOGGLE SWITCHES a. ALL TOGGLE SWITCHES SHALL BE COMMERCIAL/INDUSTRIAL	"AUTHORIZED "PERMITTED"	", "SELECTED"	', "APPROVED	", "REQUIRED	ÁND		INC AN
	AND SPECIFICATIONS WITHOUT ADDITIONAL COST. B. BEFORE STARTING WORK THE ELECTRICAL CONTRACTOR SHALL	GALVANIZED AND UL LISTED. b. ALL CONDUIT CONNECTORS OR CONDUIT CONNECTION POINTS	TYPE 15 & 20 AMP, 120/277 VAC AND SHALL BE P&S, HUBBELL, LEVITON OR APPROVED EQUAL TO:	BY THE ENGIN 3. APPROVED: T	NEER" AND SIM	IILAR PHRASE	S.		A-1,2,3	CIF UN
	EXAMINE THE PLANS AND INFORM THE ENGINEER OF ANY DISCREPANCIES BETWEEN THEM AND THE SPECIFICATIONS. IF	MUST BE INSULATED TO PROVIDE PROTECTION TO THE WIRING. c. ALL FITTINGS FOR CONDUIT SHALL BE WATER TIGHT OR STEEL	<ul> <li>D. WIRING DEVICE COVERS</li> <li>a. COVERS SHALL BE P&amp;S TYPE TP SERIES COLOR AS SELECTED BY</li> </ul>	CONJUNCTIO CONTRACTOR					(1)	СО
	DISCREPANCIES ARE FOUND HE SHALL REPORT THEM TO THE ENGINEER IN WRITING SO THE ENGINEER CAN PRODUCE	SET SCREW. d. OUTLETS IN PLASTERED PANELS AND FURRED FINISH SHALL BE	ARCHITECT TO MATCH DEVICE(S) COVERED, EXCEPT THAT OUTLETS MOUNTED IN TOE SPACE OR NEXT TO FLOOR SHALL	LIMITED TO TI DOES NOT AL						EQ
	INSTRUCTIONS FOR CHANGES IN WORK. DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO BID AS TO RESOLVE ISSUES PRIOR TO	EQUIPPED WITH PLASTERED RINGS AND EXTENSION OF SUCH DEPTH TO BRING OUTLET FLUSH WITH SURFACE FINISH.	HAVE STAINLESS STEEL COVERS. SURFACE OUTLETS SHALL HAVE GALVANIZED COVERS.	WITH THE REC THE CONTRA	CT DOCUMENT	rs.	,	RDS OR	EQ	SE
	CONSTRUCTION. 6. TESTS	e. SURFACE MOUNTED BOXES IN DAMP OR WET LOCATIONS, AND BOXES MOUNTED ON A CONDUIT STUB-UP SHALL BE TYPE "FS"	b. WIRING DEVICE COVER PLATES LOCATED ON EXTERIOR WALLS OR IN AREAS OF EXCESSIVE MOISTURE SHALL BE WEATHER DROCE	4. INSTALL: THE OPERATIONS	AT PROJECT S	SITE INCLUDIN	IG THE ACTU			EXI EM
	<ul> <li>A. THE ELECTRICAL CONTRACTOR SHALL COMPLETE ALL TESTS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.</li> <li>B. THE COSTS OF ALL TESTS, THE REPLACING AND REPAIRING OF ANY</li> </ul>	OR "FP" BOXES WITH THREADED HUBS, MOUNTING EARS AND WEATHERPROOF COVERS. E. WIRING PROCEDURE	PROOF. c. ALL FLOOR RECEPTACLES SHALL INCLUDE CARPET OR TILE FLANGE COMPLETE.	"UNLOADING, ANCHORING,	APPLYING, WC	ORKING TO DI	MENSION, FIN	ISHING,	[LT-01]	LIG
	DAMAGE RESULTING FROM TESTS AND ANY WORK NEEDED TO ADDRESS TEST RESULTS, ETC. NOT IN ACCORDANCE WITH	a. ALL WIRING IN CONDUIT SHALL HAVE NO MORE THAN THREE (3) CIRCUITS PER HOME RUN, UNLESS DERATED AS PER NEC 310-15-	17. DRY-TYPE TRANSFORMERS A. RELATED DOCUMENTS: RELATED DOCUMENTS: THE GENERAL	CURING, PRO 5. PROVIDE: THE COMPLETE A	E TERM "PROV	IDE" MEAN "T	O FURNISH AI	-		FIX
	ELECTRICAL CODE, SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS, SHALL BE THE ELECTRICAL CONTRACTOR	NOTE 8. b. THE ARCHITECT / ENGINEER RESERVES RIGHT TO MAKE ANY	PROVISIONS OF THE CONTRACT AND THE GENERAL CONDITIONS APPLY TO THE WORK SPECIFIED IN THIS SECTION.\		ND READT FOR		ED USE.		B	FIR
	RESPONSIBILITY. C. SHOULD THE ELECTRICAL CONTRACTOR REFUSE OR NEGLECT TO	REASONABLE CHANGES IN THE LOCATION OF OUTLETS BEFORE ROUGHING-IN WITHOUT ADDITIONAL EXPENSES TO THE OWNER.	<ul> <li>B. GENERAL</li> <li>a. FURNISH AND INSTALL DRY-TYPE TRANSFORMERS AS INDICATED</li> </ul>							FIR
	MAKE ANY TESTS NECESSARY TO SATISFY THE ENGINEER OR HIS REPRESENTATIVE, THE ENGINEER MAY RUN THE TESTS AND ALL	c. THE LAYOUT OF THE WIRING SYSTEM AS INDICATED IS GENERALLY SCHEMATIC AND LOCATION OF OUTLETS SHALL BE	ON THE PLANS AND AS SPECIFICATIONS. C. DESCRIPTION	BRANC	H CIRCUIT	VOLTAGE	DROP TAE	BLE	0	FIR
	COSTS WILL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY. 7. GUARANTEE	CHECKED WITH MILL WORK, EQUIPMENT SUPPLIERS, AND GENERAL CONTRACTOR.	<ul> <li>a. TRANSFORMERS SHALL HAVE A MINIMUM 4-1/2% FULL CAPACITY PRIMARY TAPS.</li> </ul>		MAX COND	UCTOR LENG	TH AT LOAD I	NDICATED	∑-⊘	TAN FLC
	A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK EXCEPT FOR LIGHT FIXTURE LAMPS UNDER THIS CONTRACT, TO BE	12. MOTORS AND ELECTRICALLY OPERATED EQUIPMENT A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT ALL EQUIPMENT	<ul> <li>TRANSFORMERS SHALL BE 150°C TEMPERATURE RISE ABOVE 40 C AMBIENT.</li> </ul>	CONDUCTOR	15A	12A	9A	6A	FACP	FIR
	FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE PROJECT COMPLETION DATE. ALL DEFECTS OF ELECTRICAL SCOPE	REQUIRING ELECTRICAL CONNECTIONS SHALL BE BE WIRED UNDER DIVISION 16 ELECTRICAL AND AS NOTED ON THE ELECTRICAL	c. PROVIDE TRANSFORMERS 500 KVA AND LARGER WITH A VIBRATION ISOLATING SYSTEM DESIGNED TO PROVIDE A		120	V CIRCUITS			*6	"CA
В	WITHIN THAT (1) YEAR PERIOD WILL BE HANDLED BY THE ELECTRICAL CONTRACTOR AT HIS OWN EXPENSE. B. LIGHT FIXTURE LAMPS SHALL CARRY THE STANDARD FACTORY	DRAWINGS. B. CHECK SUPPLIERS EQUIPMENT FOR COMPLETE WIRING DETAILS. C. CONNECT ALL MOTORS WITH FLEXIBLE CONDUIT AS PER THE	PERMANENT FASTENING AT THE CORE AND COIL OF THE ENCLOSURE. SOUND LEVEL SHALL BE GUARANTEED BY THE MANUFACTURER NOT TO EXCEED NEMA AND ANSI STANDARDS	#12 AWG CU	60 FT	75 FT	100 FT	150 FT	V	
	GUARANTEE. 8. IDENTIFICATION	CURRENT NEC. D. CHECK MOTOR STARTER FOR HEATER SIZES AND FUSED	18. MOTOR STARTERS A. STARTERS SHALL BE LINE VOLTAGE, NON-REVERSING, 3-POLE TYPE	#10 AWG CU	100 FT	125 FT	166 FT	249 FT	4 SYMBOL N.T.S.	LEGE
	A. ALL PANELBOARD'S, STARTERS, DISCONNECT SWITCHES, MAIN CIRCUIT BREAKERS, MAJOR JUNCTION BOXES AND OTHER	DISCONNECTS FOR FUSE SIZES. 13. HEATING AND VENTILATING EQUIPMENT	WITH THERMAL OVERLOAD, SINGLE-PHASE, AND LOW VOLTAGE PROTECTION WITH A NORMALLY OPEN AND CLOSED AUXILIARY	#8 AWG CU	153 FT	192 FT	256 FT	384 FT	- N.T.S.	
	SPECIALTY EQUIPMENT ITEMS INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE IDENTIFIED WITH PERMANENTLY ATTACHED	A. THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL LINE VOLTAGE CONNECTIONS FOR ALL HVAC AND BUILDING EQUIPMENT AS PER	CONTACT AND RESET BUTTON IN THE FACE. THE COIL VOLTAGE SHALL BE RATED FOR 120 VAC. PROVIDE FUSED CONTROL	#6 AWG CU	245 FT	306 FT	408 FT	612 FT		
	ENGRAVED PLASTIC NAMEPLATE. B. THE LABEL SHALL IDENTIFY THE EQUIPMENT NAME ON THE FIRST	THE ELECTRICAL EQUIPMENT HOOK-UP SCHEDULE. B. ALL HVAC CONTROL WIRING AND RELATED EQUIPMENT FOR	TRANSFORMER WHEN 120 VAC IS NOT AVAILABLE. SEE ELECTRICAL EQUIPMENT SCHEDULE AND DRAWINGS FOR H.O.A.'S, PILOT LIGHTS,	#4 AWG CU	287 FT	483 FT	644 FT	967 FT	Sheet Nun	mber
	LINE AND THE PANEL IT IS FED FROM ON THE SECOND. 9. ELECTRICAL SERVICE A. COORDINATE AND ASSIST THE UTILITY COMPANY IN THE	HEATING AND VENTILATING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.	ETC. 19. SAFETY SWITCHES A. ALL SAFETY SWITCHES 30 AMPS AND LARGER SHALL BE HORSE		277	V CIRCUITS			E100 E101	E
		C. THE HEATING AND VENTILATING SPECIFICATIONS SHALL BE A PART	A. ALL SAFETY SWITCHES 30 AMPS AND LARGER SHALL BE HORSE POWER RATED, EXTERNALLY OPERATED WITH PROVISION FOR	#12 AWG CU	130 FT	173 FT	230 FT	350 FT	E201	E
	INSTALLATION OF THE ELECTRICAL SERVICE BASED OFF THE	OF THESE SPECIFICATIONS AND THE MECHANICAL CONTRACTOR	,			285 FT	380 FT	590 FT	E301 E401	E
	INSTALLATION OF THE ELECTRICAL SERVICE BASED OFF THE ACCOMPANYING DRAWINGS, VERIFY LOCATION, REQUIREMENTS AND ELECTRICAL SERVICE SIZE AS INDICATED BY THE DRAWINGS.	SHALL FURNISH AND INSTALL ALL STARTERS FOR MECHANICAL EQUIPMENT WHICH ARE NOT SPECIFICALLY DESIGNATED AS BEING	PADLOCK, QUICK MAKE-QUICK BREAK AND SHALL BE FUSIBLE / NON- FUSIBLE / NEMA 1 / NEMA 3R AS NOTED ON DRAWINGS. EACH	#10 AWG CU	230 FT			900 FT		
	INSTALLATION OF THE ELECTRICAL SERVICE BASED OFF THE ACCOMPANYING DRAWINGS, VERIFY LOCATION, REQUIREMENTS AND ELECTRICAL SERVICE SIZE AS INDICATED BY THE DRAWINGS. B. PROVIDE METERING CONDUIT AND EQUIPMENT AS REQUIRED BY LOCAL UTILITY COMPANY.	SHALL FURNISH AND INSTALL ALL STARTERS FOR MECHANICAL EQUIPMENT WHICH ARE NOT SPECIFICALLY DESIGNATED AS BEING FURNISHED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL EQUIPMENT SCHEDULE.	PADLOCK, QUICK MAKE-QUICK BREAK AND SHALL BE FUSIBLE / NON-	#10 AWG CU #8 AWG CU	230 FT 350 FT	440 FT	590 FT			
	INSTALLATION OF THE ELECTRICAL SERVICE BASED OFF THE ACCOMPANYING DRAWINGS, VERIFY LOCATION, REQUIREMENTS AND ELECTRICAL SERVICE SIZE AS INDICATED BY THE DRAWINGS. B. PROVIDE METERING CONDUIT AND EQUIPMENT AS REQUIRED BY	SHALL FURNISH AND INSTALL ALL STARTERS FOR MECHANICAL EQUIPMENT WHICH ARE NOT SPECIFICALLY DESIGNATED AS BEING FURNISHED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL	PADLOCK, QUICK MAKE-QUICK BREAK AND SHALL BE FUSIBLE / NON- FUSIBLE / NEMA 1 / NEMA 3R AS NOTED ON DRAWINGS. EACH SAFETY SWITCH SHALL BE CLEARLY MARKED FOR MAXIMUM	#8 AWG CU #6 AWG CU	350 FT 550 FT	700 FT	940 FT	1420 FT		
rical Nt	<ul> <li>INSTALLATION OF THE ELECTRICAL SERVICE BASED OFF THE ACCOMPANYING DRAWINGS, VERIFY LOCATION, REQUIREMENTS AND ELECTRICAL SERVICE SIZE AS INDICATED BY THE DRAWINGS.</li> <li>B. PROVIDE METERING CONDUIT AND EQUIPMENT AS REQUIRED BY LOCAL UTILITY COMPANY.</li> <li>10. GROUNDING</li> <li>A. PROVIDE GROUNDING FOR ENTIRE ELECTRIC INSTALLATION AS INDICATED BY DRAWINGS AND SPECIFICATIONS.</li> <li>B. PROVIDE GROUNDING FOR ELECTRICAL SERVICE, EQUIPMENT, ENCLOSURES, CONDUITS, SWITCHBOARDS, MCC'S, PANELBOARDS,</li> </ul>	<ul> <li>SHALL FURNISH AND INSTALL ALL STARTERS FOR MECHANICAL</li> <li>EQUIPMENT WHICH ARE NOT SPECIFICALLY DESIGNATED AS BEING</li> <li>FURNISHED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL</li> <li>EQUIPMENT SCHEDULE.</li> <li>D. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL</li> <li>DISCONNECT SWITCHES THAT ARE REQUIRED BY THE NATIONAL</li> </ul>	PADLOCK, QUICK MAKE-QUICK BREAK AND SHALL BE FUSIBLE / NON- FUSIBLE / NEMA 1 / NEMA 3R AS NOTED ON DRAWINGS. EACH SAFETY SWITCH SHALL BE CLEARLY MARKED FOR MAXIMUM	#8 AWG CU	350 FT			1420 FT 2200 FT		
nter - Electrical - rvt	<ul> <li>INSTALLATION OF THE ELECTRICAL SERVICE BASED OFF THE ACCOMPANYING DRAWINGS, VERIFY LOCATION, REQUIREMENTS AND ELECTRICAL SERVICE SIZE AS INDICATED BY THE DRAWINGS.</li> <li>B. PROVIDE METERING CONDUIT AND EQUIPMENT AS REQUIRED BY LOCAL UTILITY COMPANY.</li> <li>10. GROUNDING</li> <li>A. PROVIDE GROUNDING FOR ENTIRE ELECTRIC INSTALLATION AS INDICATED BY DRAWINGS AND SPECIFICATIONS.</li> <li>B. PROVIDE GROUNDING FOR ELECTRICAL SERVICE, EQUIPMENT, ENCLOSURES, CONDUITS, SWITCHBOARDS, MCC'S, PANELBOARDS, TRANSFORMERS, LOW VOLTAGE CABINETS, ETC.</li> <li>C. GROUNDING-SIZE AND TYPE OF GROUND CONDUCTOR AS PER</li> </ul>	<ul> <li>SHALL FURNISH AND INSTALL ALL STARTERS FOR MECHANICAL</li> <li>EQUIPMENT WHICH ARE NOT SPECIFICALLY DESIGNATED AS BEING</li> <li>FURNISHED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL</li> <li>EQUIPMENT SCHEDULE.</li> <li>D. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL</li> <li>DISCONNECT SWITCHES THAT ARE REQUIRED BY THE NATIONAL</li> <li>ELECTRICAL CODE FOR ALL MECHANICAL EQUIPMENT AS PER</li> <li>ELECTRICAL EQUIPMENT SCHEDULE UNLESS FACTORY FURNISHED</li> </ul>	PADLOCK, QUICK MAKE-QUICK BREAK AND SHALL BE FUSIBLE / NON- FUSIBLE / NEMA 1 / NEMA 3R AS NOTED ON DRAWINGS. EACH SAFETY SWITCH SHALL BE CLEARLY MARKED FOR MAXIMUM	#8 AWG CU #6 AWG CU	350 FT 550 FT	700 FT	940 FT			
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MBOL LEGEND
SYMBOL DESCRIPTION
DUPLEX RECEPTACLE, NEMA 5-20R
GFCI RECEPTACLE
4 PLEX RECEPTACLE
4 PLEX GFCI RECEPTACLE
"A" INDICATES RECEPTACLE IS INSTALLED ABOVE COUNTER.
"C" INDICATES RECEPTACLE IS INSTALLED ABOVE CEILING.
GFCI RECEPTACLE WITH WEATHER PROOF WHILE IN USE COVER.
SPECIAL RECEPTACLE TO MATCH EQUIPMENT PLUG.
JUNCTION BOX
DATA OUTLET
TELEPHONE OUTLET
DATA TELEPHONE OUTLET
EQUIPMENT CONNECTION WITH DISCONNECT
EQUIPMENT CONNECTION WITH FUSED DISCONNECT
EQUIPMENT CONNECTION WITH NO DISCONNECT
EQUIPMENT CONNECTION W/THERMAL SWITCH
EQUIPMENT INDICATOR, SEE EQUIPMENT SCHEDULE.
SINGLE POLE SWITCH
LOW VOLTAGE SWITCH
WALL OCCUPANCY SENSOR
LIGHTING CONTROL SYSTEM PHOTO CELL. X INDICATES ZONE
LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR. X INDICATES ZONE
LIGHTING CONTROL ROOM/ZONE CONTROLLER.
LIGHTING CONTROL LOW VOLTAGE WIRING
BRANCH CIRCUIT HOME RUN. ARROWS INDICATE NUMBER OF CIRCUITS. LETTER
AND NUMBERS INDICATED PANEL AND
CIRCUT NUMBERS. USE #12 CONDUCTORS UNLESS OTHERWISE INDICATED.
CONDUIT & CONDUCTOR "CC" SCHEDULE INDICATOR, REFER TO ONELINE DIAGRAM.
EQUIPMENT CONDUIT & CONDUCTOR, SEE SCHEDULE
EXIT SIGN
EMERGENCY LIGHT
LIGHT FIXTURE TYPE INDICATOR. SEE FIXTURE SCHEDULE.
FIRE ALARM HORN STROBE
FIRE ALARM BELL
FIRE ALARM SMOKE DETECTOR
FIRE ALARM CO DETECTOR
TAMPER SWITCH
FLOW SWITCH

- FIRE ALARM CONTROL PANEL
- "CAT 6" DROPS. " \* " NUMBER OF DROPS AND LOCATIONS

BOL LEGEND

#### SHEET LIST - ELECTRICAL

**Current Revision** 

Sheet Name

ELECTRICAL COVER SHEET ELECTRICAL LIGHTING ELECTRICAL CONSTRUCTION ELECTRICAL DETAILS ELECTRICAL SCHEDULES

#### GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: 2. AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. 3. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED. 4. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE. 5. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL AND COMMUNICATIONS SPACES): 6. INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. 7. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ENGINEER. 8. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS. INSURE CLEARANCES AROUND ALL ELECTRICAL EQUIPMENT PER N.E.C. BEFORE ROUGH-IN. NOTIFY ARCHITECT / ENGINEER AND GENERAL CONTRACTOR IMMEDIATELY UPON FINDING ANY DISCREPANCIES. 9. ALL CONDUITS PENETRATING ROOF SHALL BE SEALED WITH PITCH POCKETS. 10. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS, IN BLOCK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR. 11. ALL PENERATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS BY CONDUITS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACES PENERATED. VERIFY WITH ARCHITECT. ALL LIGHT FIXTURES REQUIRING SHEET ROCK BOOTS TO RETAIN RATING. CEILING RATING SHOULD BE COORINATED WITH GENERAL CONTRACTOR BEFORE BID. SHEET ROCK BOOTS TO BE PROVIDED BY OTHERS. 12. PROVIDE ONE PIECE GALVANIZED FLAT ROLLED SHEET STEEL OUTLET BOXES WITH STAMPED KNOCKOUTS. MINIMUM DEPTH OF 1-1/2" WITH BOXES WITH THREE OR MORE CONDUIT ENTRIES AND SHALL BE 4-SQUARE WITH 1 OR 2 GANG EXTENSION RING, JUNCTION BOXES SHALL BE SHEET STEEL WITH SCREW-ON COVERS. 13. PROVIDE COLOR CODING FOR CONDUCTORS AS FOLLOWS: 14. BROWN/ORANGE/YELLOW/GRAY FOR 277/480 V. 15. BLACK/RED/BLUE/WHITE FOR 120/208 V. 16. UNLESS OTHERWISE INDICATED CONDUITS SHALL BE EMT. CONDUITS SHALL BE SUPPORTED WITH CONDUIT CLAMPS TRAPEZE HANGERS AND THREADED ROD ATTACH TO STRUCTURE AT INTERVALS NOT TO EXCEED 8 FEET. PROVIDE FLEXIBLE CONDUIT WITH GROUND CONDUCTOR BETWEEN DISCONNECT AND MOTOR. PROVIDE EXPANSION FITTINGS AS REQUIRED BY N.E.C. 17. CLEAN UP ALL EQUIPMENT, CONDUIT, PACKING CARTONS, ETC. AND OTHER DEBRIS RESULTING FROM THIS INSTALLATION. CLEAN INTERIORS AND EXTERIORS OF ALL EQUIPMENT AND REPLACE, OR REPAIR ALL ELECTRICAL EQUIPMENT UPON REQUEST AT SUBSTANTIAL COMPLETION. 18. DIMENSIONS INDICATING LOCATIONS OF DEVICES ARE TO BE TO THE CENTER OF DEVICE BOX 19. PROVIDE SEISMIC BRACING FOR ALL ELECTRICAL EQUIPMENT, CONDUITS, CABLES, LIGHT FIXTURES, CABLE TRAY, ETC. SEISMIC BRACING SHALL BE AS PER IBC 1621.1.13.

Current Revision Description



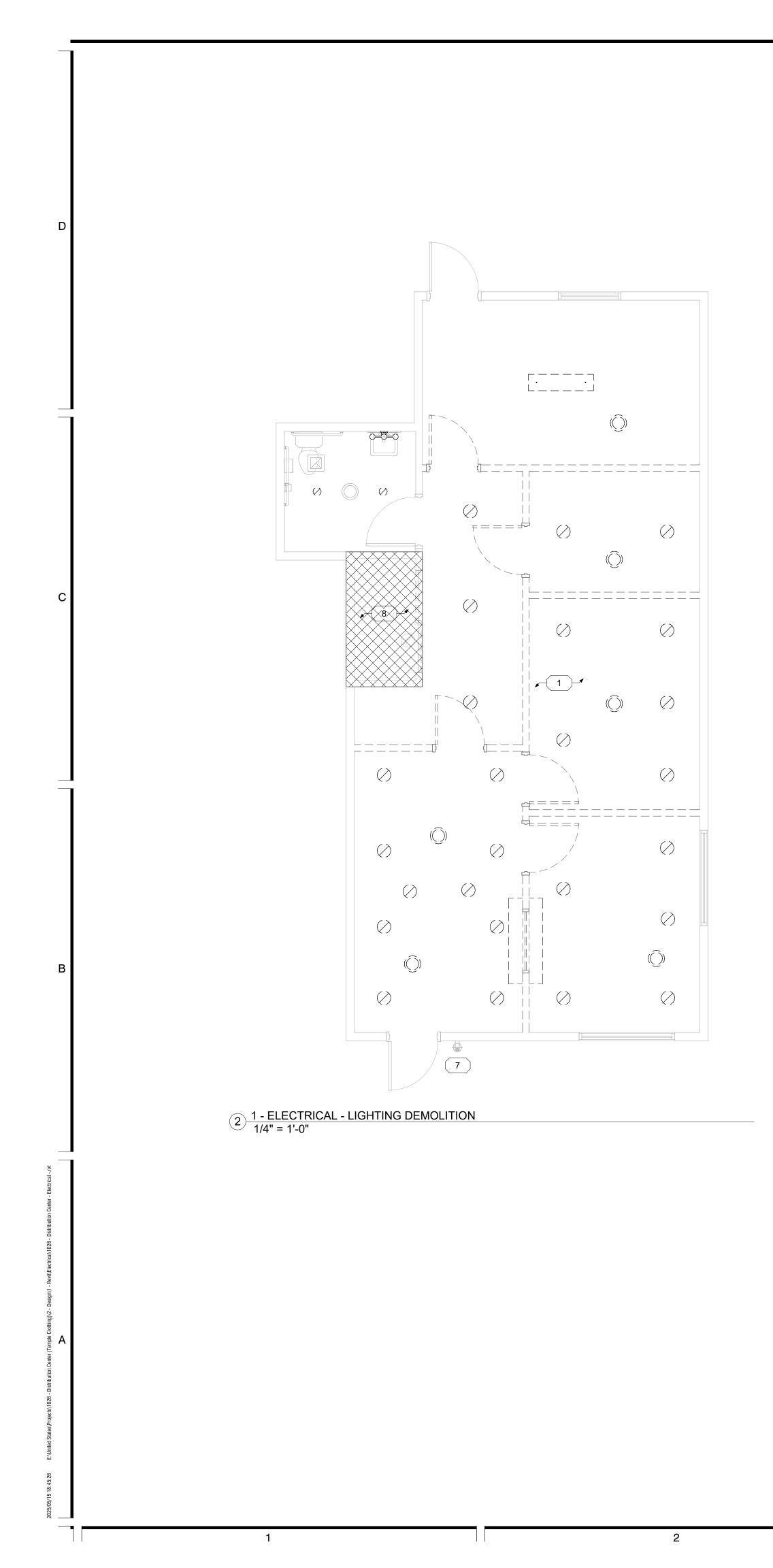
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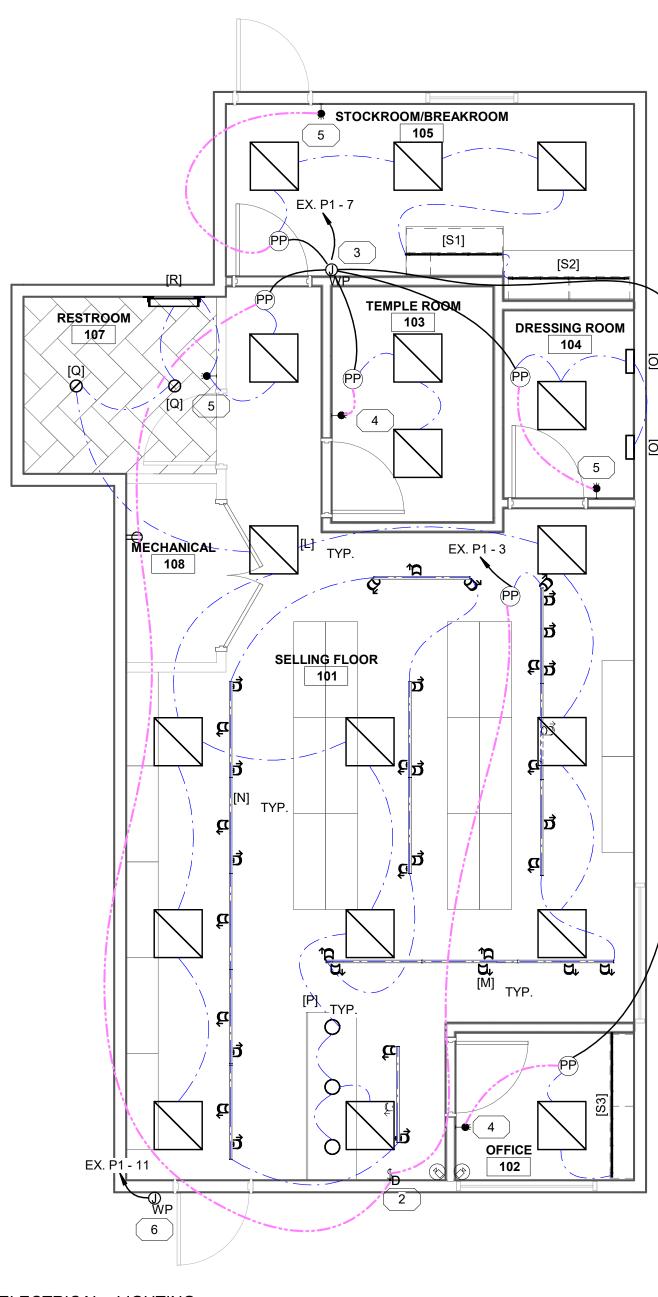
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1 - ELECTRICAL - LIGHTING 1/4" = 1'-0"

#### KEYNOTES

- 1 DISCONNECT ALL LIGHTS, SWITCHES, RECEPTACLES AND ANY OTHER ELECTRICAL EQUIPMENT C/W WIRING. COORDINATE WITH GC TO REMOVE AND DISPOSE OF ALL DISCONNECTED ELECTRICAL EQUIPMENT.
- 2 DIMMABLE LOW VOLTAGE OVERIDE SWITCH FOR OCCUPANCY SENSOR. 3 BUTTON 2 ZONE WITH ON/OFF AND WAVELINX WIRED DIMMING SWITCHPACK.
- 3 PROVIDE INSTALL AND A JUNCTION BOX WITH BLANK COVER IN ACCESSIBLE CEILING SPACE (COORDINATE WITH GC) AS PER NEC REQUIREMENTS. J/BOX SHALL SUPPORT 12/2 THWN CONDUCTORS AND UP TO FIVE 3/4" EMT CONDUITS TO LIGHTING CONTROL MODULES AND FIXTURES.
- 4 WALL MOUNT OCC SENSOR SHALL BE DUAL TECH DIMMABLE (GREENGATE OSWP010) OR EQUIVALENT.
- 5 WALL MOUNT DUAL TECH OCC SENSOR (GREENGATE ONW D 1001 MV) OR EQUIVALENT.
- 6 PROVIDE A WEATHER PROOF JUNCTION BOX FOR TENANT SINAGE. COORDINATE ELECTRICAL REQUIREMENTS WITH SIGN VENDOR AND EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 7 DEMOLISH AND REMOVE FROM SITE EXISTING EXTERIOR RECEPTACLES C/W WIRING AND CONDUIT. PROVIDE WEATHERPROOF ROUGH-IN BOX WITH CONDUIT STUBBED TO ACCESSIBLE LOCATION, C/W WEATHERPROOF BLANK COVER UNTIL FINAL DEVICE INSTALLATION.
- 8 EXISTING ELECTRICAL EQUIPMENT TO REMAIN.

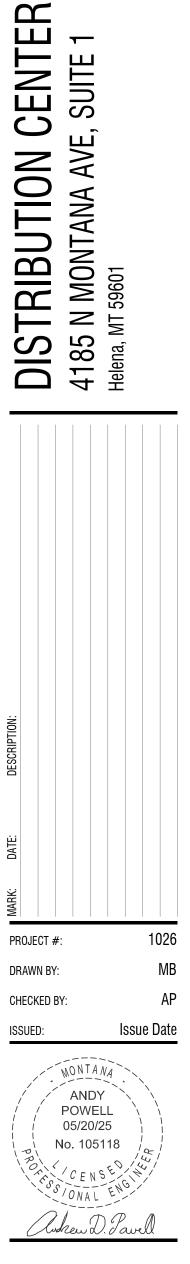


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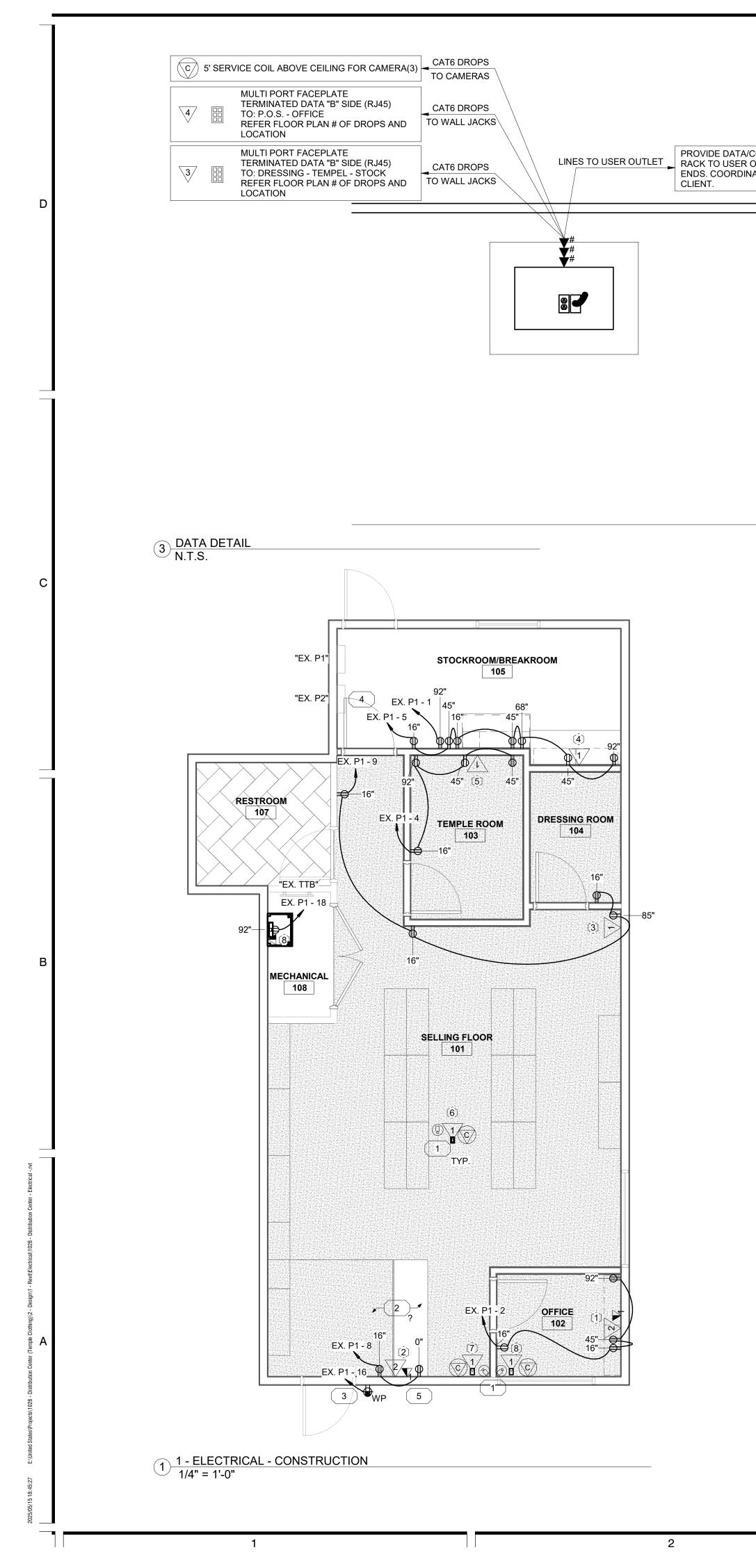
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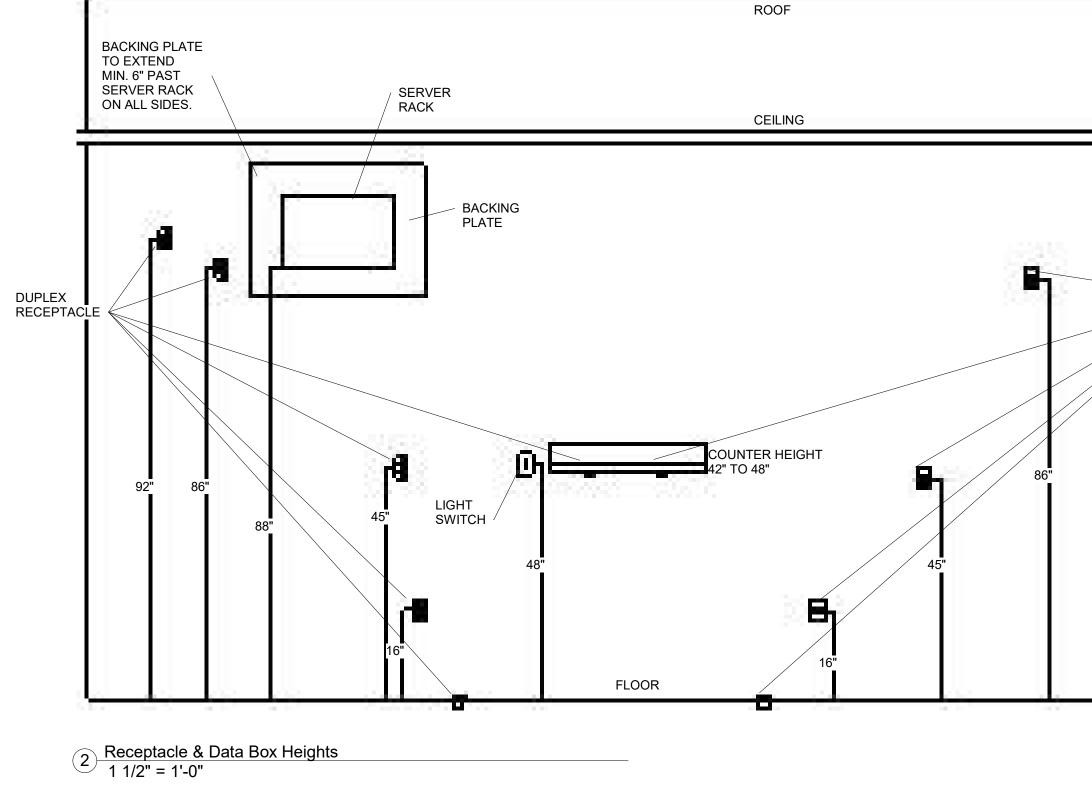




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1	CAT6 TO OFFICE A. 2 CAT6 - FROM NET a. MIN. 5' SERVICE • PATCH PAN • DROP IN OF B. 1 CAT6 TELEPHONE a. MIN. 5' SERVICE • DROP IN OF
2	CAT6 TO P.O.S. A. 2 CAT6 - FROM NET a. MIN. 5' SERVICE BOX. MALE DAT • PATCH PAN • DROP AT P. B. 1 CAT6 TELEPHONE a. MIN. 5' SERVICE • DROP @ P.0
3	CAT6 TO DRESSING RC A. 1 CAT6 - FROM NET a. MIN. 5' SERVICE • PATCH PAN • DROP AT DI HEIGHT
4	CAT6 TO STOCKROOM/ A. 1 CAT6 - FROM NET a. MIN. 5' SERVICE • PATCH PAN • DROP AT S <sup></sup> @ 45" HEIGI
5	CAT6 TO TEMPLE ROOI A. 1 CAT6 - FROM NET a. MIN. 5' SERVICE • PATCH PAN • DROP AT TE
6	CAT6 TO SALES FLOOR A. 1 CAT6 - FROM NET a. MIN. 5' SERVICE • PATCH PAN • INSTALL JUI CAMERA CO
7	CAT6 TO SALES FLOOR A. 1 CAT6 - FROM NET a. MIN. 5' SERVICE • PATCH PAN • INSTALL JU CAMERA CO
8	CAT6 TO SALES FLOOR A. 1 CAT6 - FROM NET a. MIN. 5' SERVICE • PATCH PAN • INSTALL JU



PROVIDE DATA/COMM CABLING FROM SERVER RACK TO USER OUTLET. TERMINATE AT BOTH ENDS. COORDINATE OUTLET LOCATION WITH

3

#### TWORK RACK TO OFFICE: CE COIL IN CEILING. MALE DATA (RJ45) NEL PORT: #X-X

DFFICE TO DOUBLE CONNECTOR BOX @ 45" HEIGHT NE DROP TO OFFICE: CE COIL IN CEILING DFFICE TO SINGLE CONNECTOR BOX @ 45" HEIGHT

TWORK RACK TO P.O.S.: CE COIL IN CEILING AND 5' SERVICE COIL @ CONNECTOR ATA (RJ45) NEL PORT: #X-X

P.O.S. TO DOUBLE CONNECTOR BOX @ 0" HEIGHTS NE DROP TO P.O.S.: CE COIL IN CEILING AND 5' SERVICE COIL @ BOX. P.O.S. TO SINGLE CONNECTOR BOX @ 0" HEIGHT

ROOM ETWORK RACK TO OUTSIDE DRESSING ROOM: CE COIL IN CEILING. MALE DATA (RJ45)

NEL PORT: #X-X DRESSING ROOM TO DOUBLE CONNECTOR BOX @ 86"

M/BREAKROOM ETWORK RACK TO STOCKROOM/BREAKROOM: CE COIL IN CEILING. MALE DATA (RJ45)

NEL PORT: #X-X STOCKROOM/BREAKROOM TO SINGLE CONNECTOR BOX GHT

ETWORK RACK TO TEMPLE ROOM: CE COIL IN CEILING. MALE DATA (RJ45) NEL PORT: #X-X

TEMPLE ROOM TO SINGLE CONNECTOR BOX @ 45" HEIGHT

ETWORK RACK TO SALES FLOOR CAMERA: CE COIL IN CEILING. MALE DATA (RJ45) ANEL PORT: #X-X. IUNCTION BOX WITH CAT6 FEMALE CONNECTOR(RJ45) FOR CONNECTION

OR ETWORK RACK TO SALES FLOOR P.O.S. CAMERA: CE COIL IN CEILING. MALE DATA (RJ45)

NEL PORT: #X-X. UNCTION BOX WITH CAT6 FEMALE CONNECTOR(RJ45) FOR CONNECTION

OR ETWORK RACK TO OFFICE CAMERA:

MIN. 5' SERVICE COIL IN CEILING. MALE DATA (RJ45)
PATCH PANEL PORT: #X-X.
INSTALL JUNCTION BOX WITH CAT6 FEMALE CONNECTOR(RJ45) FOR CAMERA CONNECTION

# E CATE DATA TERMINATION BOX

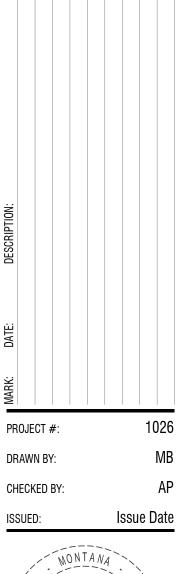
KEYNOTES

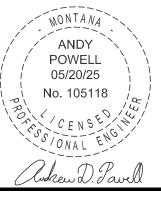
- 1 PROVIDE A JUNCTION BOX AND 3/4" C FROM CAMERA TO SECURITY HEADEND. COORDINATE WITH OWNER ON
- EXACT LOCATION.2 ALL DATA LINES TO GO BACK TO BUILDING TTB. LOCATED IN THE MECHANICAL ROOM.
- 3 REPLACE EXISTING WEATHER PROOF RECEPTACLE.
- 4 EX. P2 REMAINING AS IS C/W EXISTING CIRCUITS.
- 5 PROVIDE A 5' WHIP WITH RECEPTACLE ON END TO BE LOCATED IN MILLWORK.



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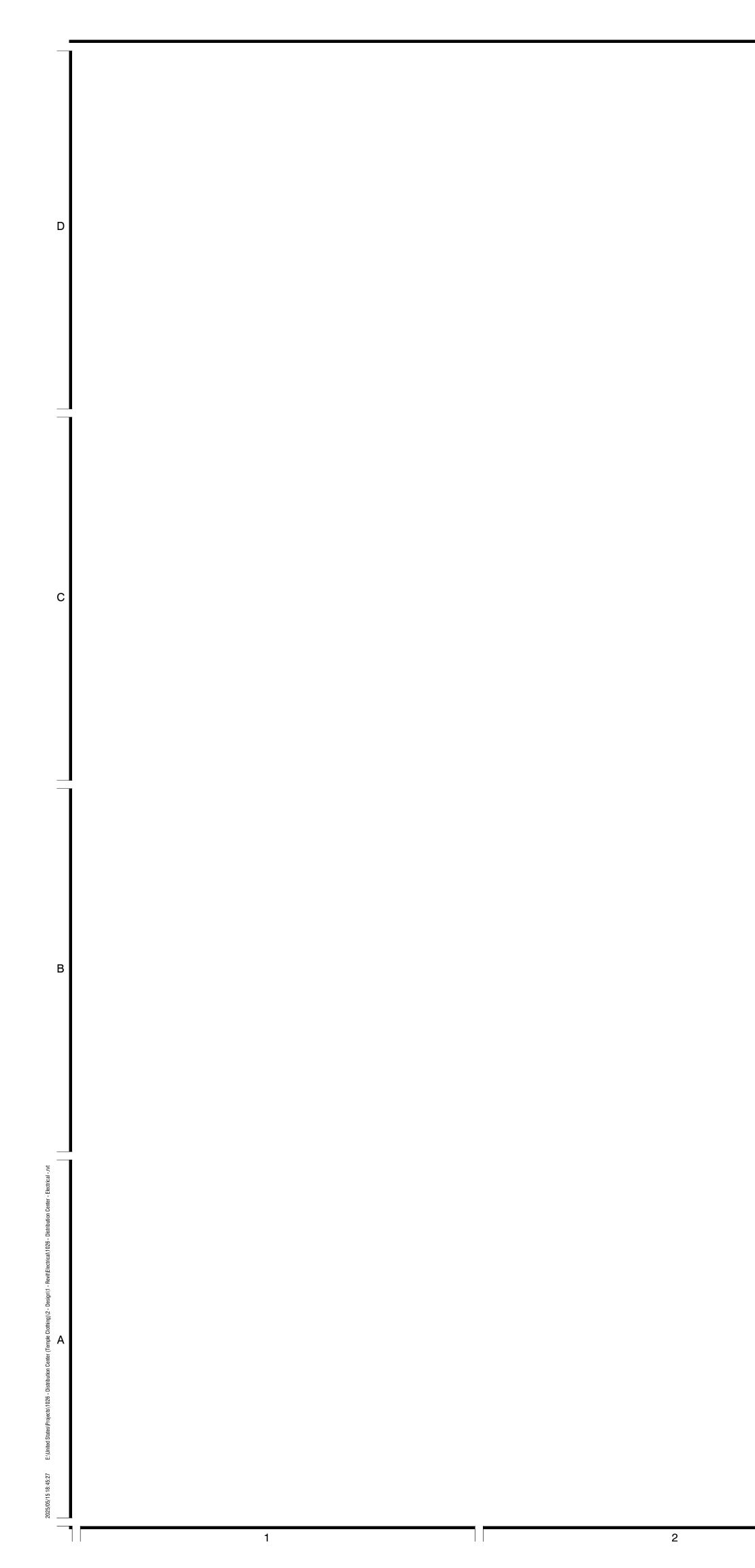


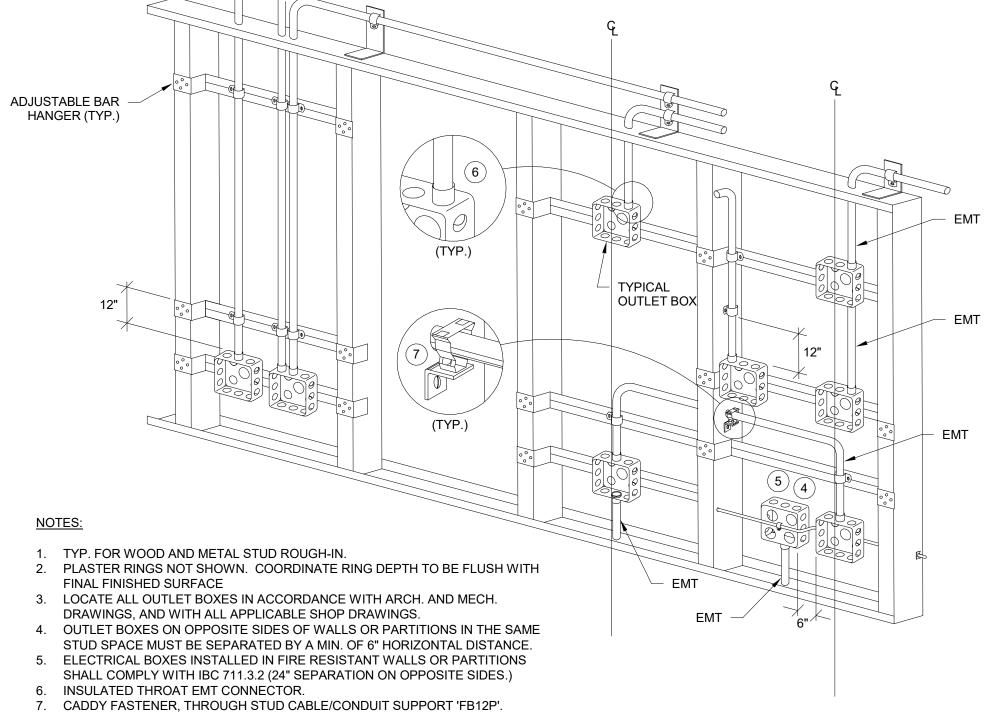




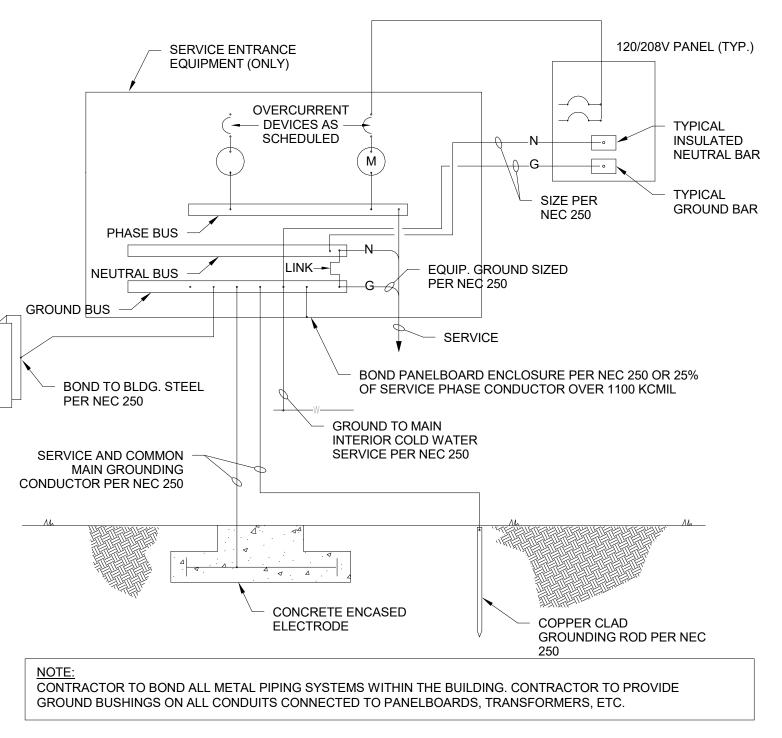


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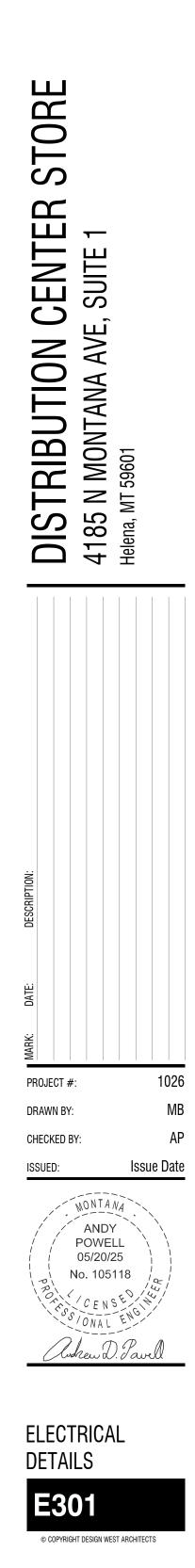
- 1 Typical Rough-In Details 1/2" = 1'-0"

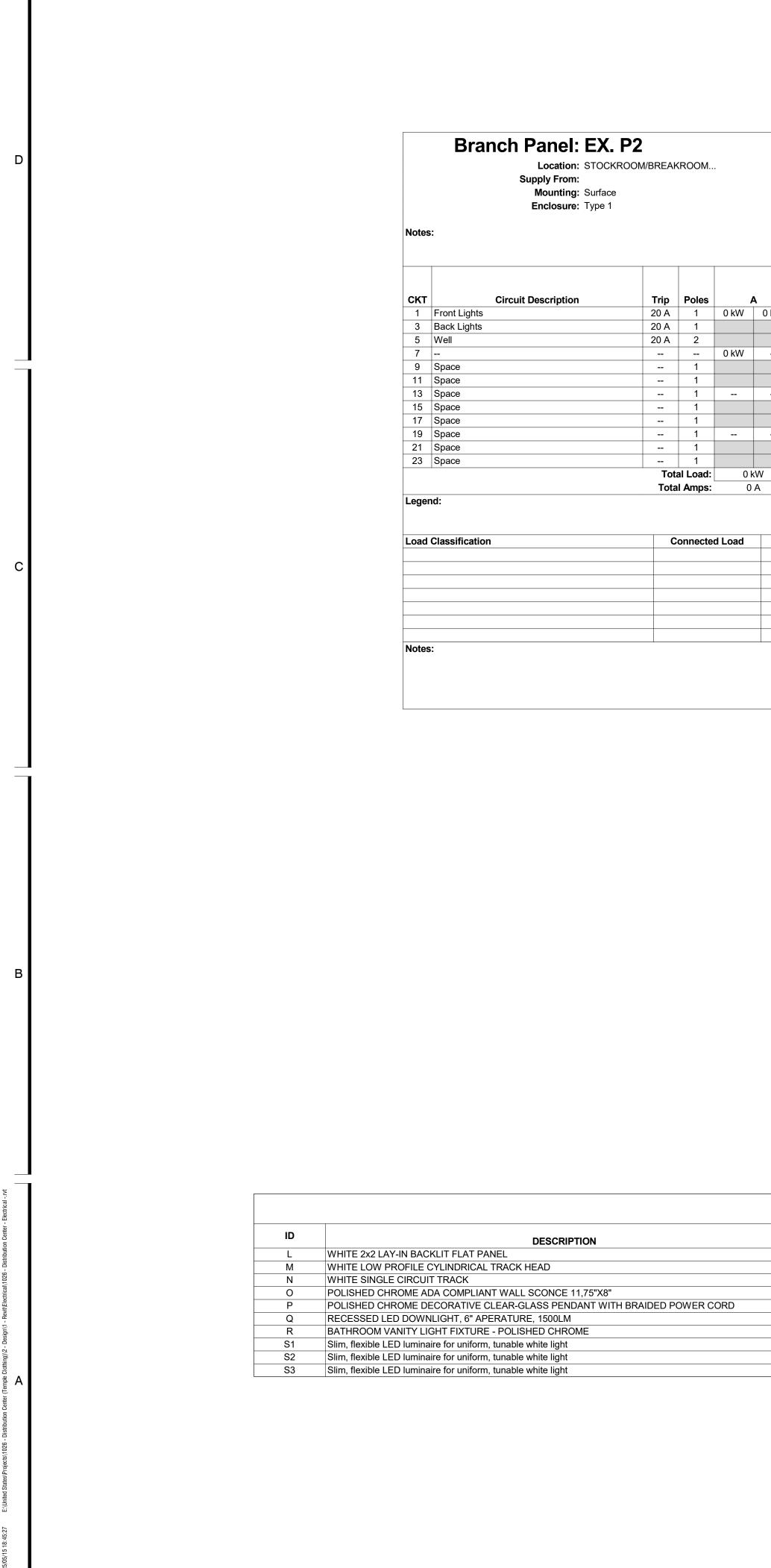


2 Typical 208/120V Grounding/Bonding Detail 1/2" = 1'-0"



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2

#### Volts: 120/208 Wye Phases: 3

Wires: 4

#### A.I.C. Rating: Mains Type: Mains Rating: 100 A

MCB Rating: 1 A

							1	
		3		C	Poles	Trip	Circuit Description	СКТ
) kW					1	20 A	Parking Lot Lights	2
	0 kW	0 kW			1	20 A	Spare	4
			0 kW		1		Space	6
					1		Space	8
					1		Space	10
					1		Space	12
					1		Space	14
					1		Space	16
					1		Space	18
					1		Space	20
					1		Space	22
					1		Space	24
	01	ŚŴ	01	ŚŴ				
	0	А	0	А				

Demand Factor	Estimated Demand	Panel	Totals
		Total Conn. Load:	0 kW
		Total Est. Demand:	0 kW
		Total Conn.:	0 A
		Total Est. Demand:	0 A

## Branch Panel: EX. P1

Location: STOCKROOM/BREAKROOM .... Supply From: Mounting: Surface Enclosure: Type 1

Notes:

скт	Circuit Description	Trip	Poles		A	E	3	(	5	Poles	Trip	Circuit Description	скт
1	RECEPTACLES SERVER RACK **	20 A	1	180 W	720 W					1	20 A	RECEPTACLES OFFICE **	2
3	TRACK LIGHTS **	20 A	1			216 W	720 W			1	20 A	RECEPTACLES TEMPLE ROOM **	4
5	RECEPTACLES STOCK/BREAKROOM **	20 A	1					1,260 W	1,200 W	1	20 A	Furnace *	6
7	CEILING LIGHTS **	20 A	1	988 W	360 W					1	20 A	RECEPTACLES P.O.S. **	8
9	S/FLOOR & D/ROOM RECEPT. **	20 A	1			720 W	1,000 W			1	20 A	GFI Bathroom *	10
11	SIGNAGE **	20 A	1					1,200 W	2,500 W	2	20 A	AC *	12
13	Water Heater *	30 A	2	3,500 W	2,500 W								14
15						3,500 W	180 W			1	20 A	RECEPTACLES GFCI WEATHERPROOF **	16
17	Space		1						360 W	1	20 A	DEDICATED SERVER RACK RECEPTACLES	18
19	Space		1							1		Space	20
21	Space		1							1		Space	22
23	Space		1							1		Space	24
		Tot	al Load:	8	kW	61	٨W	7 k	Ŵ				
		Tota	I Amps:	69	A G	53	3 A	55	λ				I

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Lighting - Dwelling Unit	0 kW	100.00%	0 kW		
Other	0 kW	0.00%	0 kW	Total Conn. Load:	21 kW
Spare	14 kW	100.00%	14 kW	Total Est. Demand:	21 kW
Lighting	2 kW	100.00%	2 kW	Total Conn.:	59 A
RECEPTACLES	5 kW	100.00%	5 kW	Total Est. Demand:	59 A
		100.0070		. eta. Eoti Bomanai	

Notes:

"\*" CIRCUITS REMAINING. EC TO VERIFY CIRCUITS ARE WORKING AND CODE COMPLIANT. "\*\*" NEW CIRCUITS TO BE INSTALLED. REMOVE ANY OTHER REMAINING CIRCUITS AND ASSIGN BREAKERS AS SPARE

## LIGHT FIXTURE SCHEDULE

		LAMP /						Initial Color
MANUF	ACTURER CATALOG NUMBER	COLOR	VOLTAGE	WATTS	MOUNTING	NOTES	Luminous Flux	Temperature
METALUX	22CGTX45-L940	LED	120 V	37 W	CEILING RECESSED	GLARE REDUCTION FLAT PANEL IN T-GRID APPLICATIONS	4500 lm	4000 K
HALO	L815SML05FL940MB	LED	120 V	6 W	STASIS TRACK		500 lm	4000 K
HALO	L650P				CEILING	PROVIDE COMPONANTS AND ACCESSORIES FOR A FULL WORKING SYSTEM		
OXYGEN	3-521-14-4000K	LED	120 V	15 W	WALL MOUNTED	TURN SCONCE ON/OFF WITH CEILING LIGHTS.	550 lm	4000 K
OXYGEN	3-656-14-4000K	LED	120 V	8 W	CEILING PENDANT	PROVIDE COMPONANTS AND ACCESSORIES FOR A FULL WORKING SYSTEM	400 lm	4000 K
LITHONIA	LDN6RV 30/15 LR6AR LD	A-19	120 V	18 W	CEILING RECESSED		1511 lm	3000 K
Oxygen	Orion 3-543-14	LED	120 V	12 W	WALL MOUNTED		1233 lm	3000 K
Color Kinetics	316-200019-01	LED	120 V	24 W	UNDER CABINET	PROVIDE COMPONANTS AND ACCESSORIES FOR A FULL WORKING SYSTEM	400 lm	4000 K
Color Kinetics	316-200019-01	LED	120 V	30 W	UNDER CABINET	PROVIDE COMPONANTS AND ACCESSORIES FOR A FULL WORKING SYSTEM	400 lm	4000 K
Color Kinetics	316-200019-01	LED	120 V	36 W	UNDER CABINET	PROVIDE COMPONANTS AND ACCESSORIES FOR A FULL WORKING SYSTEM	400 lm	4000 K

4

Volts:	120/208 Wye
Phases:	-
Wires:	4

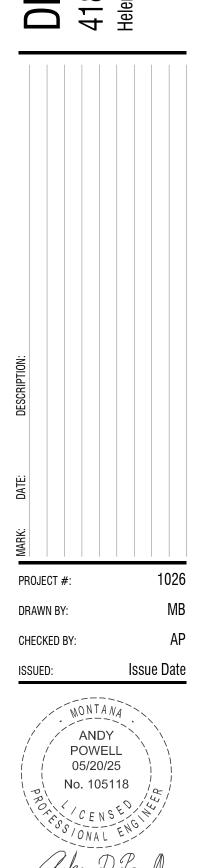
A.I.C. Rating: Mains Type: Mains Rating: 100 A MCB Rating: 100 A

STORE CENTER E, SUITE 1 AVE, ISTRIBUTION (185 N MONTANA AVE 185 N MONTANA AVE 1603, MT 59601

DESIGN

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ELECTRICAL SCHEDULES E401

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