

Bid Addendum #02

Addendum #: 02

date: 06/15/2025

project: Helena Distribution Store

project #: 224098

This Addendum shall be considered part of the bid documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents. This Addendum shall govern and take precedence. **Bidders must acknowledge this addendum in their bids**.

Proposers are hereby notified that they shall make any necessary adjustments in their estimates as a result of this Addendum. It will be construed that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

Except as described below, the original bid documents remain unchanged. The bid documents are modified and/or clarified, As follows:

Items:

1. CHANGES TO PRIOR ADDENDA:

N/A

2. CHANGES TO BIDDING REQUIREMENTS:

N/A

3. CHANGES TO DRAWINGS & SPECIFICATIONS

- Fire Extinguisher in Semi Recessed Cabinet added in Stock Room/Breakroom. Legend on G-002 updated.
- Dispensers in restroom are to be removed and discarded. Contractor to install new vendor supplied dispensers. Dispenser mounted height added on A-501.
- Gypsum Board wall and ceiling finishes added to Paint Schedule on A-601.

4. CLARIFICATIONS

 Responses to Bidders Questions are attached and incorporated into the Addendum #2 Revised Drawings.

5. REVISED SHEETS

- Sheet G-001
- Sheet G-002
- Sheet AD-101
- Sheet A-101
- Sheet A-501
- Sheet A-601
- Responses to Bidder Questions

BIDDER'S QUESTIONS:

- Sheet G-002 references Sheet A531 for wall types but is not included in our plan set. Is there a sheet A531 that we are missing? Or is the detail of the wall type on sheet A-501 to be used?

RESPONSE: WALL TYPES ARE ON A-501

- Sheet G-002 Legend calls for new walls to extend to the deck. Please provide the height to the deck to plan on for these walls.

RESPONSE: THE EXISTING GYP BOARD CEILING IS ATTACHED TO THE BOTTOM OF THE ROOF TRUSSES. NEW WALLS ARE TO EXTEND TO BOTTOM OF EXISTING CEILING.

- Sheet A-501 Door Schedule references details for sills, jambs, heads on sheet A-502. A-502 is not provided in the set, please advise. It appears the head and jamb details are shown on A-501 but please advise if we are missing sheet A-502 as referenced with additional details.

RESPONSE: DOOR DETAILS SHOULD REFERENCE SHEET A-501.

- Please clarify if thermal batt's or sound insulation is desired in all new walls. G-002 legend isn't clear which walls receive which.

RESPONSE: NONE OF THE NEW WALLS ARE TO RECEIVE INSULATION.

- I am not seeing any indication of what type or locations that corner guards should be installed. There is a spec that lists stainless steel and vinyl but the plans do not indicate any locations. Please advise if there should be any corner guards.

RESPONSE: CORNER GUARDS WILL NOT BE USED.

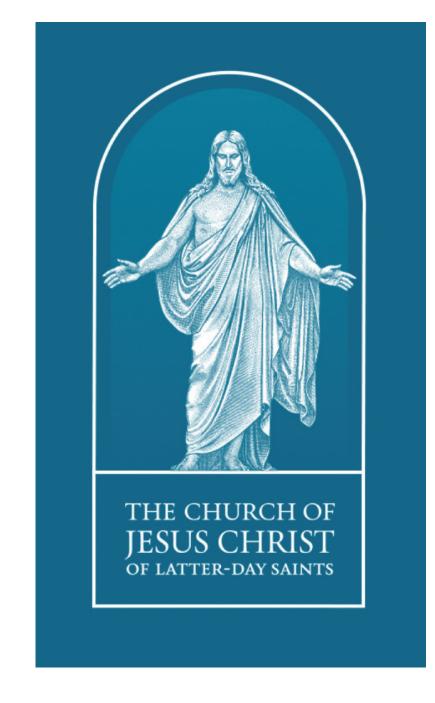
- Plans don't call for fire extinguisher location, assuming 1 new with cabinet per egress distances less than 75' - is that a correct assumption?

RESPONSE: ONE FIRE EXTINGUISHER IN A SEMI-RECESSED CABINET HAS BEEN ADDED IN THE STOCKROOM/BREAKROOM

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

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
ARCHITECT	URAL DEMO:
AD-101	DEMOLITION PLANS
ARCHITECT	URAL:
A-101	FLOOR PLAN & REFLECTED CEILING PLAN
A-102	FINISH PLAN
A-501	SCHEDULE - DOOR & DETAILS
A-601	SCHEDULE - FINISH
MECHANIC	AL:
M100	MECHANICAL OVERVIEW
M101	MECHANICAL PLAN
M102	MECHANICAL SCHEDULES
PLUMBING	
P100	PLUMBING OVERVIEW
P101	PLUMBING PLAN
ELECTRICA	<u>.</u> :
E100	ELECTRICAL COVER SHEET
E101	ELECTRICAL LIGHTING



DESIGN TEAM

ARCHITECTURAL

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

OWNER

CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS 4185 N MONTANA AVE, SUITE 1 HELENA, MT 59602

PHONE: PHONE: 385.228.4288 EMALE: KingLC@churchofjesuschrist.org CONTACY: LOGAN KING

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.

ABBREVIATIONS

EQUIP EWC

EQUIPMENT

ELECTRICAL CONSTRUCTION

ELECTRICAL DETAILS

ELECTRICAL SCHEDULES

ABBKI	EVIATIONS				
ABR.	<u>DESCRIPTION</u>	ABR.	<u>DESCRIPTION</u>	ABR.	<u>DESCRIPTION</u>
AB	ANCHOR BOLT	EXIST	EXISTING	PART BD	PARTICLE BOARD
ABS	ACRYLONITRILE-BUTADIENE	EXP	EXPANSION	PART'N	PARTITION
7150	-STYRENE	EXT	EXTERIOR	P-LAM	PLASTIC LAMINATE PLATE
AC	ACOUSTIC, ACOUSTICAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD
ACC STA	ACCESSIBLE STATION	FDN	FOUNDATION	PREFAB	PREFABRICATED
ADD STA	ADDENDUM	FEC	FIRE EXTINGUISHER CABINET	PROJ	PROJECTION
ADJ	ADJUSTABLE	FIN	FINISH	PT	PRESERVATIVE TREATED
AFF	ABOVE FINISH FLOOR	FLR	FLOOR		POLYVINYL CHLORIDE
				PVC	
ALT	ALTERNATE	FTG	FOOTING	QT D/	QUARRY TILE
ALUM	ALUMINUM	GA	GAUGE	R/	ROUND
ASI	ARCHITECT SUPPLEMENTAL	GALV	GALVANIZED	RAD	RADIUS
40011	INSTRUCTION	GI	GALVANIZED IRON	RD	ROOF DRAIN
ASPH	ASPHALT	GYP BD	GYPSUM BOARD	REF	REFRIGERATOR
	_	HDWD	HARDWOOD	REINF	REINFORCE
BB	BASKETBALL	HM	HOLLOW METAL	REV	REVISION
BD	BOARD	HORIZ	HORIZONTAL	RFI	REQUEST FOR INFORMATION
BLDG	BUILDING	HT	HEIGHT	R0	ROUGH OPENING
BLKG	BLOCKING	ID	INSIDE DIAMETER	SCHED	SCHEDULE
BM	BENCH MARK	INSUL	INSULATION	SHT	SHEET
B.O.	BOTTOM OF	INT	INTERIOR	SIM	SIMILAR
BRG	BEARING	JT	JOINT	SPEC	SPECIFICATION
BSMT	BASEMENT	KD	KNOCK DOWN	SQ	SQUARE
B.U.R.	BUILT UP ROOF	K0	KNOCK OUT	SS	STAINLESS STEEL
С	CHANNEL	L	ANGLE	STD	STANDARD
СВ	CHALKBOARD	LLV	LONG LEG VERTICAL	STL	STEEL
C	CENTER LINE	MAX	MAXIMUM	STOR	STORAGE
CLG	CEILING	MB	MARKER BOARD	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL	SUSP	SUSPENDED, SUSPENSION
CO	CLEAN OUT	MFR	MANUFACTURER	SYS	SYSTEM
COL	COLUMN	MH	MANHOLE	T & B	TOP AND BOTTOM
CONC	CONCRETE	MIN	MINIMUM	TB	TACKBOARD
CONN	CONNECTION	MISC	MISCELLANEOUS	TEMP	TEMPORARY
CONT	CONTINUOUS	MO	MASONRY OPENING	TEL	TELEPHONE
CONTR	CONTRACTOR	MT	MOUNT	THRES	THRESHOLD
CT	CERAMIC TILE	MTL	METAL	TS	TUBE STEEL
d	PENNY	(N)	NEW NOT IN CONTRACT	T.O.	TOP OF
DIM	DIMENSION	NIC	NOT IN CONTRACT	TOIL	TOILET
DS	DOWNSPOUT	NTS	NOT TO SCALE	TV	TELEVISION
DWG	DRAWING	0.C.	ON CENTER	TYP	TYPICAL
(E)	EXISTING	OD	OUTSIDE DIAMETER	VERT	VERTICAL
EA	EACH	OH	OVERHEAD	U.N.O.	UNLESS NOTED OTHERWISE
EIFS	EXTERIOR INSULATION	OF/CI	OWNER FURNISHED /	W	WIDE FLANGE
	FINISH SYSTEM		CONTRACTOR INSTALLED	W/	WITH
ELECT	ELECTRICAL	OF/OI	OWNER FURNISHED /	WC	WATER CLOSET
ELEV	ELEVATION		OWNER INSTALLED	WD	WOOD
EQ	EQUAL	OPNG	OPENING	WM	WATER METER
EUHD	FOLIDMENT	∩PP	OPPOSITE	\ <i>\</i> //\	WITHOUT

OPEN TO STRUCTURE

WELDED WIRE FABRIC

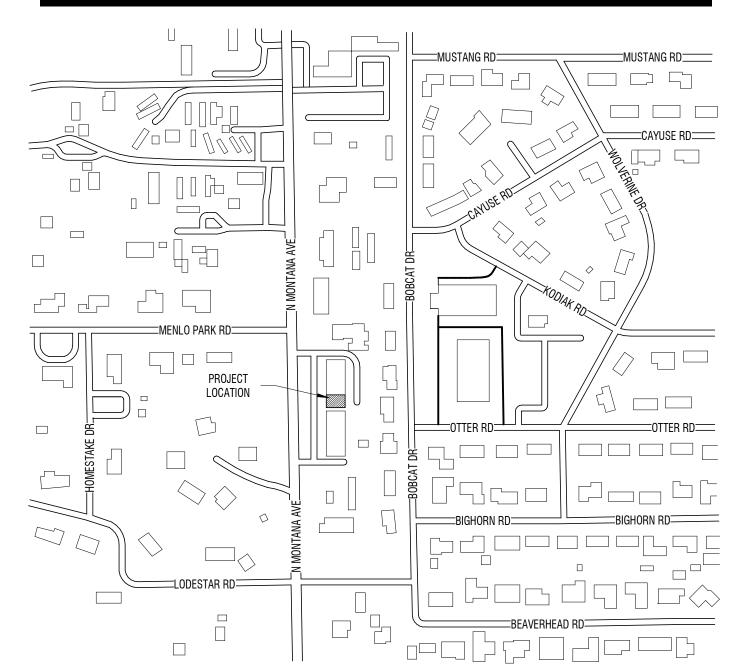
SYMBOLS LEGEND

<u>DESCRIPTION</u>	<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>SYMBOL</u>
BUILDING SECTION —	A1 A-101		
WALL SECTION —	A1 A-101	DRAWING TAG	A1 DETAIL 1/8" = 1'-0" SUB DESCRIPTION
		WINDOW TYPES ————	STOREFRONT/ CURTAIN WALL
DETAIL —	A1 A-101	WALL TYPES —	S6A
SECTION DETAIL ENLARGED PLAN	A1 A-101	DOOR TAG —	DOOR NUMBER A101B A011HMA FRAME TYPE HARDWARE #
	\J	KEYNOTES —	04.03 NOTE #
ELEVATION LEVEL —	ELEVATION •	REVISIONS —	DIVISION #
ELEVATIONS —	INTERIOR EXTERIOR A1/A-101 A-101	GRID BUBBLE ————	
ROOM TAG	ROOM NAME 101	EQUIPMENT TAG ————	D
	ROOM NAME CEILING 101 MILLWORK FLOOR CF MF BASE	FINISH TAG —	<u></u>
ROOM FINISH TAG ———	WALL WALL WALL WALL WALL	NORTH ARROW ————	NORTH

MATERIALS LEGEND

WINTER TIME CEL	ALIND
<u>MATERIAL</u>	<u>SYMBOL</u>
EARTH	
ASPHALT PAVING	
COMPACTED GRANULAR FILL	
CONCRETE	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
CONCRETE MASONRY UNITS	
BRICK	
STEEL	
CONTINUOUS WOOD	
WOOD BLOCKING	
PLYWOOD / OSB	
PARTICLE BOARD	
INSULATION	
RIGID INSULATION	
GYPSUM BOARD	
GLU-LAMINATE BEAM	
GLASS	
FINISH WOOD	
ALUMINUM	
WOOD STUD WALL	

VICINITY MAP

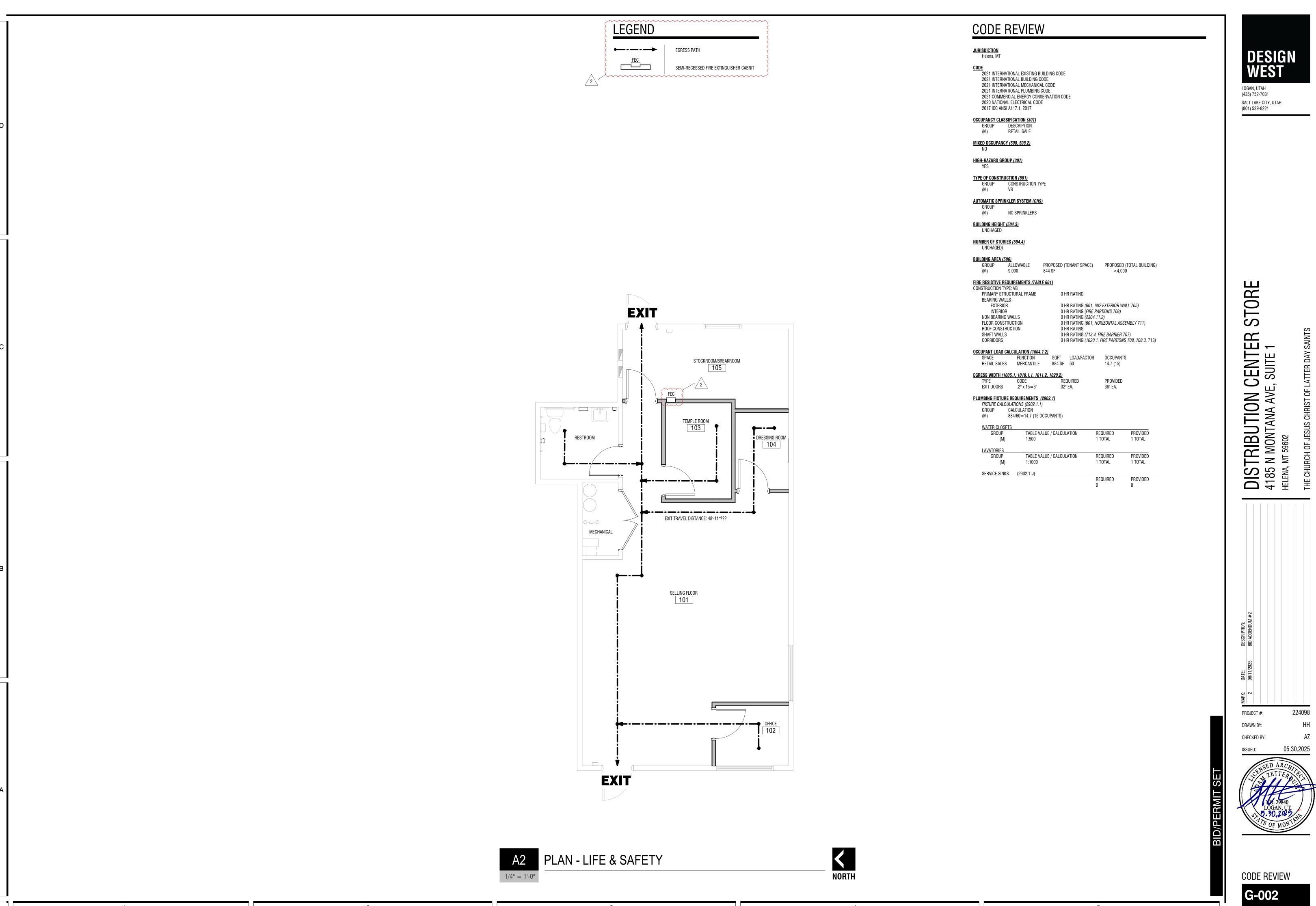


PROJECT INFORMATION

G-001

LOGAN, UTAH (435) 752-7031 SALT LAKE CITY, UTAH (801) 539-8221

STORE Δ 田田 EN. RIBUTION N MONTANA AVE





LOGAN, UTAH (435) 752-7031 SALT LAKE CITY, UTAH

(801) 539-8221

TORE S Δ SUITE 1 $\overline{\mathbf{C}}$ TRIBUTION C N MONTANA AVE, S NT 59602

CODE REVIEW

G-002

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

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.

2. 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.

3. 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.

7. 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.

8. 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,

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

I	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
\wedge	02.11	EXISTING COUNTER TO BE REMOVED
/2	02.12	EXISTING VANITY LIGHT TO BE REMOVED
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	02.13	REMOVE AND STORE FOR REINSTALLATION PLUMBING FIXTURES, GRAB BARS AND
(	mmmm	MIRROR IN RESTROOM
) <u>-</u>	02.14	REMOVE ALL WOOD TRIM AT DOORS AND WINDOWS
<i>\</i> {	02.15	REMOVE ALL DISPENSERS, TOWEL RODS, ELEC BOXES, ETC. TO ALLOW FOR
^	~~~~~~	INSTALLATION OF NEW FINISHES
2		

## LEGEND

EXISTING TO REMAIN

FLOOR PLAN - DEMOLITION

WAITING

<u>_____</u>

**BREAKROOM** 

REFLECTED CEILING - DEMOLITION

02.12

(435) 752-7031 SALT LAKE CITY, UTAH (801) 539-8221

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**DEMOLITION PLANS** 

AD-101

(02.13) (02.15)

RESTROOM

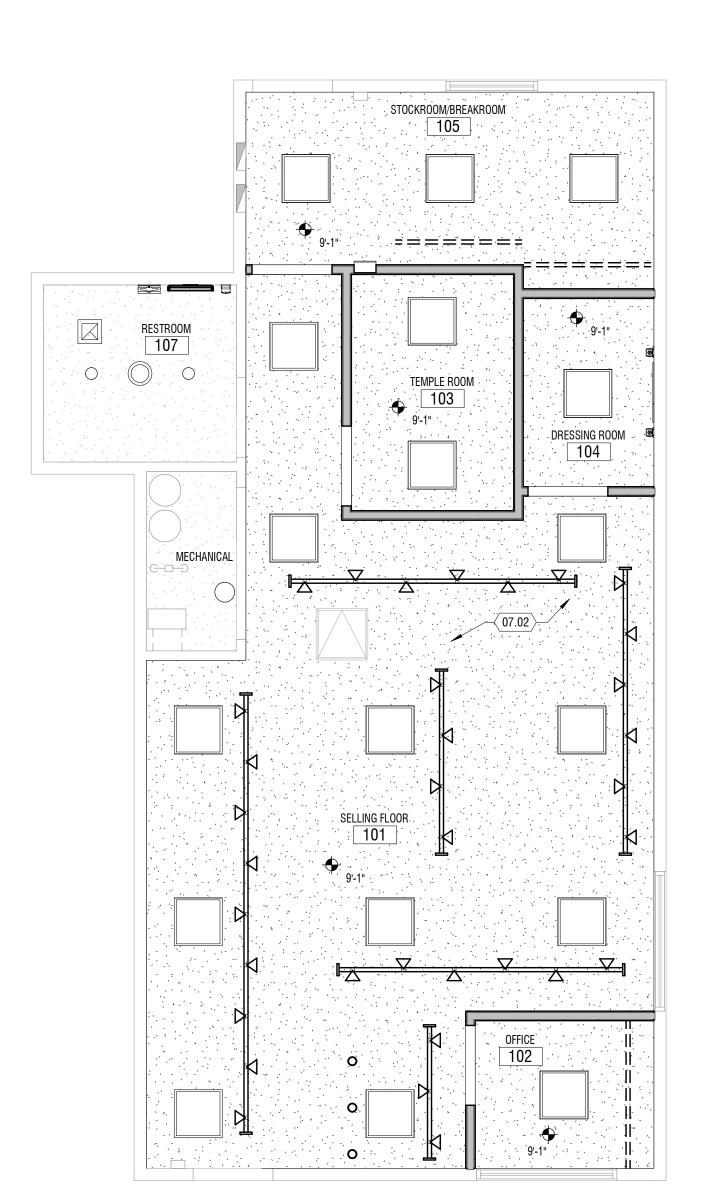
MECHANICAL

(02.09)

. <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.

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- 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.





STOCKROOM/BREAKROOM

DRESSING ROOM

7'-9 1/2"

TEMPLE ROOM

(06.02)

13.01

107

MECHANICAL 108





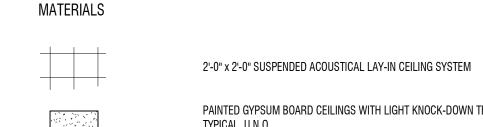
## GENERAL NOTES

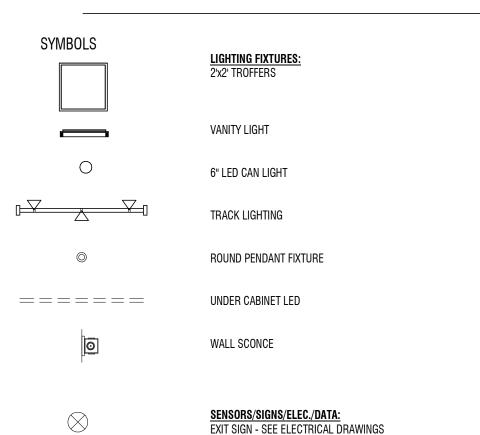
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- 2. CONTRACTOR SHALL BE FAMILIARIZED WITH THE LAY-OUT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ANY QUESTIONS SHALL BE SUBMITTED VIA REQUEST FOR INFORMATION (RFI).
- DOORS SHALL CONFORM TO ADA REQUIREMENTS 12" MIN PUSH SIDE 3" STUD SECTION 18" MIN PULL SIDE
- 5. ALIGN FURRED WALLS AND STUD WALL FINISH FACE TYPICAL U.N.O.
- 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.
- 11. WALL TYPES SHOWN AS WWW ARE SHOWN ON SHEET A-501.

	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
5	13.02	REINSTALLATION PLUMBING FIXTURES, GRAB BARS AND MIRROR IN RESTROOM
	13.03	INSTALL NEW SOAP, TOILET PAPER AND PAPER TOWEL DISPENSORS (VENDOR SUPPLIED, CONTRACTOR INSTALLED)
2		





AIR GRILLES/ACCESS PA
EXHAUST
SUPPLY / FRESH
RETURN / RELIEF
ACCESS PANEL

(435) 752-7031

(801) 539-8221

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SALT LAKE CITY, UTAH

FLOOR PLAN & REFLECTED CEILING

A-101

USED OR OCCUR IN THE DOCUMENT SET. 3. MIN CLEARANCE REQUIRED ON LATCH SIDE OF

- 4. HINGE SIDE OF DOORS AT PERPENDICULAR WALLS TO HAVE 3" STUD SECTION U.N.O.
- 6. ADA RESTROOMS MUST COMPLY WITH ADA WATER CLOSET MEASUREMENTS ON SHEET A1/A-501

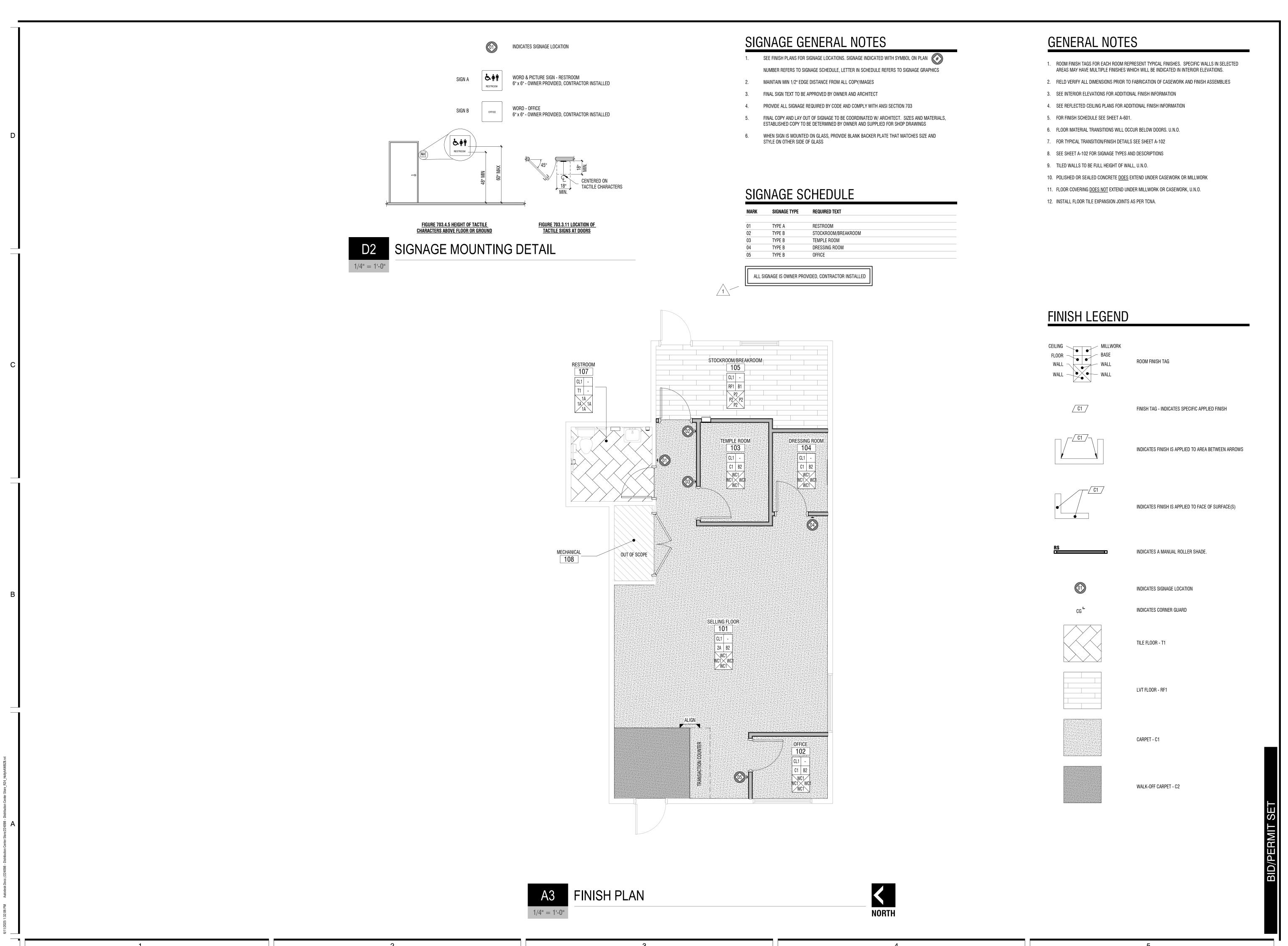
- 9. FEC = FIRE EXTINGUISHER IN SEMI-RECESSED CABINET.
- 10. A1/A-101 INDICATES INTERIOR ROOM ELEVATIONS ON SHEET REFERENCED.
- 12. SEE FINISH PLANS FOR SIGNAGE LOCATION, SIGNAGE SYMBOL.

# KEYNOTES (#)

LEGEND

PAINTED GYPSUM BOARD CEILINGS WITH LIGHT KNOCK-DOWN TEXTURE

AIR GRILLES/ACCESS PANELS:

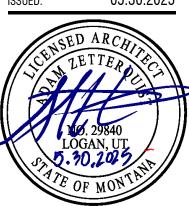


DESIGN WEST

(435) 752-7031 SALT LAKE CITY, UTAH

(801) 539-8221

STORE CENTER E, SUITE 1 RIBUTION N MONTANA AVE



FINISH PLAN

2. SEE SOURCE OF TESTED ASSEMBLIES FOR SEAM OVERLAPS, TAPING, AND FASTENING REQUIREMENTS

OF RATED WALL TYPES.

## DOOR SCHEDULE

	LEAF SIZIN	IG (1)								DETAILS (8)		}		
MARK	W	Н	D	DOOR TYPE (2)	CONSTRUCTION (3)	FINISH (4)	GLAZING (5)	RATING (6)	FRAME TYPE (7)	HEAD	JAMB	SILL	HARDWARE (9)	NOTES (10)
										}		}	$\wedge$	
102	3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	HMA	C4/A-501	B4/A-501	A4/A-501	26 //1	
103	3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	HMA	C4/A-501	B4/A-501	A4/A-501	32	
104	3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	HMA	C4/A-501	B4/A-501	A4/A-501	32	
105	3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	HMA	C4/A-501	B4/A-501	A4/A-501	26	
107	3'-0"	7'-0"	1 3/4"	WD01	SC		-	-	HMA	C4/A-501	B4/A-501	A4/A-501	32	
108	6'-0"	7'-0"	1 3/4"	WD02	SC				HMA	C4/A-501	B4/A-501	A4/A-501	50F	
										<u>(                                    </u>	munumun	Lumm	2	

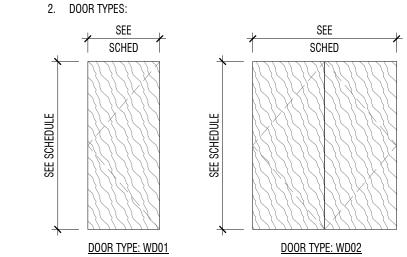
## GENERAL NOTES

- 1. PROVIDE SEALANT AT JOINTS AT DISSIMILAR MATERIAL CONNECTIONS, ISOLATE DISSIMILAR METALS. 2. ALL DIMENSIONS FOR DOOR AND WINDOW OPENINGS TO BE FIELD VERIFIED PRIOR TO MANUFACTURING AND INSTALLATION.
- 3. UNLESS NOTED OTHERWISE, WHERE OCCURS ALL WINDOWS AND TRANSOMS THAT OCCUR IN RATED CORRIDOR WALL TO BE RATED 45 MIN.
- 4. PRE-PAINT ALL FRAMES PRIOR TO INSTALLATION.

## SCHEDULE NOTES

5. BRAILLE SIGNAGE REQUIRED ON STRIKE SIDE OF FRAME.

- IF SCHEDULE FIELD SHOWS A HYPHEN ( ) OR IS BLANK, THERE ARE NO ITEMS APPLICABLE OR IS DETERMINED BY MANUFACTURER.
- SWING LINES SHOWN BELOW ARE REPRESENTATIONAL AND DO NOT INDICATE ACTUAL SWING. SEE PLANS FOR INDIVIDUAL SWINGS.
  - 1. LEAF SIZING: SEE SCHEDULE



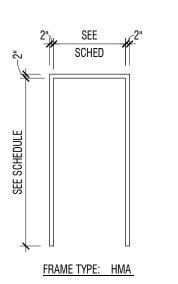
CONSTRUCTION: GL GLASS AL ALUMINUM HMI HOLLOW METAL, INSULATED HM HOLLOW METAL SC SOLID CORE

PERSONNEL

- 4. FINISH: SEE DOOR FINISHES ON SHEET A-691
- 5. GLAZING: (DOOR AND WINDOW) SG SAFETY GLASS (TEMPERED OR LAMINATED) SGI SAFETY GLASS INSULATED, LOW E CG CLEAR FLOAT GLASS CGI CLEAR FLOAT GLASS INSULATED - LOW E SP SPANDREL PANEL
- 6. RATING: 20, 45, 60 AND ETC. INDICATES FIRE RATING NOTE: ALL FIRE RATED DOORS SHALL BE AUTOMATIC CLOSING OR SELF-CLOSING AS PROVIDED IN THE IBC, IN ADDITION SEE THE IBC FOR SPECIAL PROVISIONS RELATING TO DOORS.

PERSONNEL

7. FRAME TYPE: (NUMBER(S) INDICATE(S) FRAME TYPE(S) SHOWN

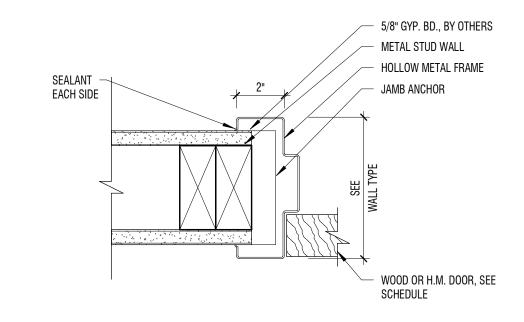


- 8. DETAILS: (REFER TO SHEETS INDICATED FOR DOOR AND WINDOW DETAILS)
- 9. HARDWARE: (GROUP #, SEE SPECIFICATIONS FOR HARDWARE GROUPS)
- 10. NOTES:

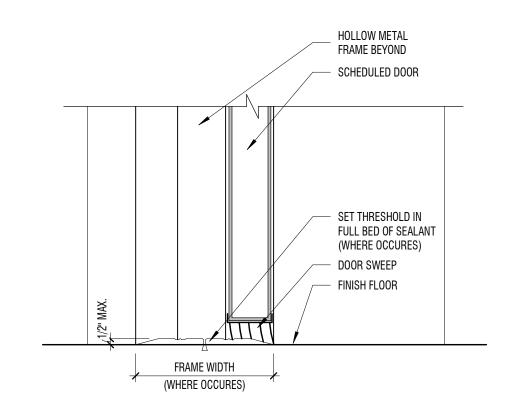
# — 5/8" GYP. BD., BY OTHERS STUD HEADER - SEALANT EACH SIDE WOOD OR H.M. DOOR, SEE HOLLOW METAL



DETAIL - HEAD







DETAIL - THRESHOLD

PROJECT #:

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STORE

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EN.

RIBUTIO MONTANA

SALT LAKE CITY, UTAH

SCHEDULE - DOOR & **DETAILS** 

LAV. GUARD ~

KNEE CLEARANCE PER

ADA RESTROOM FIXTURE MOUNTING DETAILS

PAPER TOWEL

DISPENSER

AREA OF TOILET PAPER _ DISPENSER

- SOAP DISPENSER

PROTECTIVE SHIELD ON ALL EXPOSED PLUMBING HARDWARE (ALL SINKS - TYP.)

LAVATORY/MIRROR

- FLUSH CONTROLS ON

OPEN SIDE

12" MIN. 24" MIN.

17" - 18"

ACCESSIBLE WATER CLOSET

32" MAX

RECESSED ____

ACCESSIBLE WATER CLOSET

A-501

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TRIBUTION
N MONTANA AVE 

LATTER

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224098

SCHEDULE - FINISH

A-601

10. POLISHED OR SEALED CONCRETE <u>DOES</u> EXTEND UNDER CASEWORK OR MILLWORK

11. FLOOR COVERING <u>DOES NOT</u> EXTEND UNDER MILLWORK OR CASEWORK, U.N.O.

FINISH TAG - INDICATES SPECIFIC APPLIED FINISH

INDICATES FINISH IS APPLIED TO AREA BETWEEN ARROWS

INDICATES FINISH IS APPLIED TO FACE OF SURFACE(S)

INDICATES A MANUAL ROLLER SHADE.

LVT FLOOR - RF1

WALK-OFF CARPET - C2

SHEET LIST - MECHANICAL **Current Issue** Sheet Name **Current Revision Description** MECHANICAL OVERVIEW MECHANICAL PLAN MECHANICAL SCHEDULES RETURN AIR DUCT **DUCT SEAL CLASS** SUPPLY AIR DUCT REA = RELIEF AIR DUCT OUTSIDE AIR DUCT Exhaust < 2" WG > 2" WG FLUE = MECHANICAL FLUE COMBUSTION AIR **Unconditioned Spaces** THERMOSTAT REMOTE TEMPERATURE SENSOR Exposed Ductwork in Conditioned Spaces Concealed Ductwork in Conditioned Spaces MECHANICAL LEGEND MECHANICAL SMACNA SEISMIC HAZARD LEVEL SHL VALUE **DESIGN CONDITIONS** Helena, Montana Outdoor Winter Design Temp: -13°F Indoor Winter System Design Indoor Temp: 72°F Outdoor Summer System Design Air Temp: 93°F 3,996 FT

AREA OF SCOPE

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

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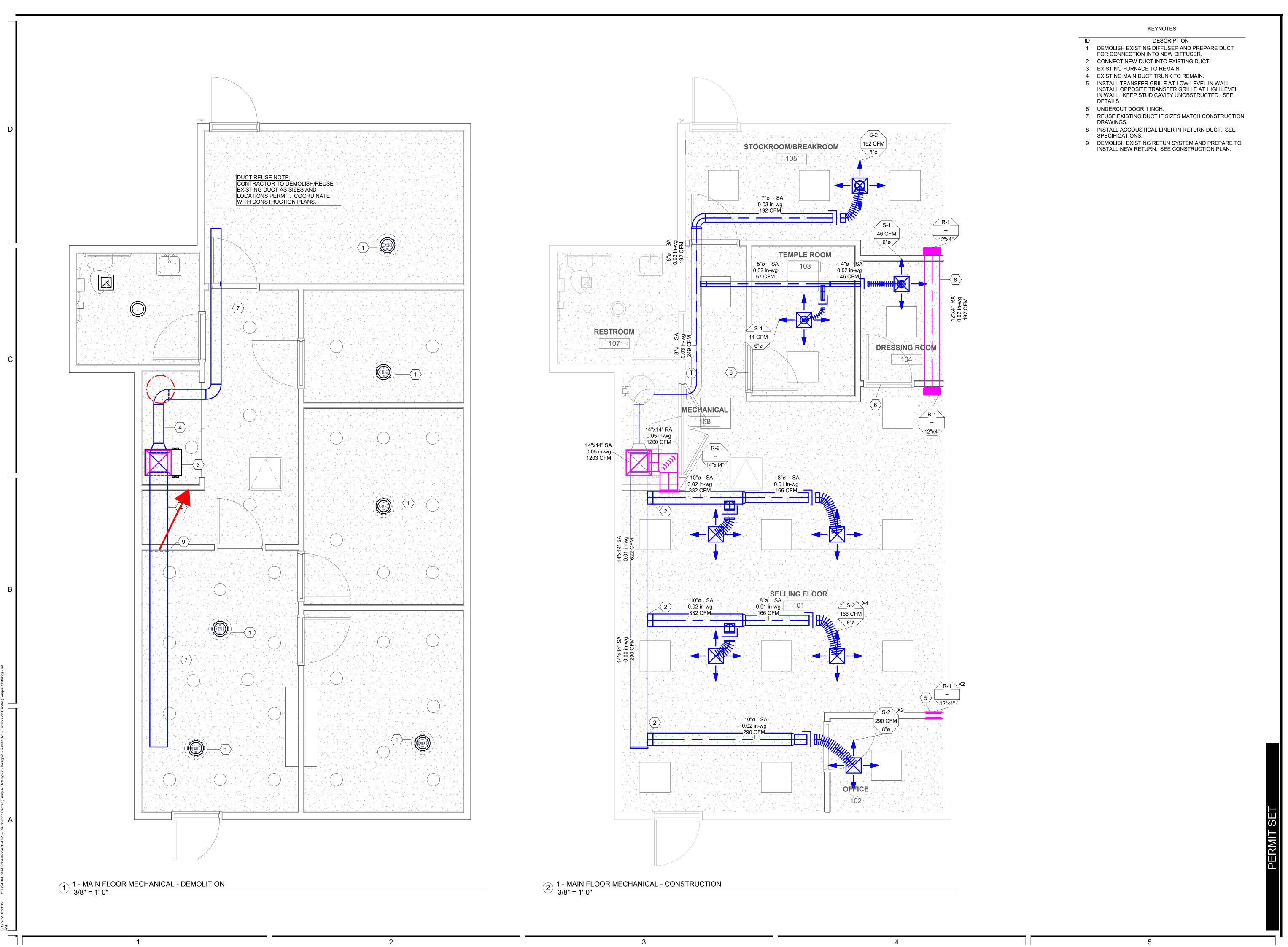
HENDRIK F BRENKMAN

PROJECT #: **DRAWN BY** ISSUED:

**MECHANICAL OVERVIEW** 

REFER TO BOOK SPEC. WHERE THERE IS ANY DISCREPANCY, GIVE PRECEDENCE TO BOOK SPECIFICATIONS

warranty on roof. Roof warranty must not be affected by any work.



> HENDRIK F BRENKMAN No. 105036PE

4/22/25

**MECHANICAL** 

MODEL

SMD-6 4 Way Diffuser

SMD-6 4 Way Diffuser

MANUFACTURER

Price Industries Price Industries

Price Industries

Price Industries

AIR TERMINAL SCHEDULE

NECK SIZE 12"x4"

14"x14"

6"ø

8"ø

SECTION OF LINER SHALL OVERLAP THE

4 Louvered Steel Return Grille. For Surface Mount.

For Surface Mount.

For Surface Mount.

Louvered Steel Return Grille. For Surface Mount.

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

THIS IS A SIMPLIFIED DETAIL FOR DUCTS LESS THAN 20X20 ONLY.

EDITION FOR DETAILED NOTES AND DUCT SUPPORTS.

SUPPLIED WITH THESE DRAWINGS.

**ROOF TRUSS** 

METAL DUCT

HANGER STRAP

ANCHOR SCREW

ENGINEER.

Mechanical Systems, 3RD EDITION. OBTAIN SHL VALUE FROM

3RD EDITION FOR SPACING OF BRACES AND SEISMIC NOTES

REFER TO SMACNA Seismic Restraint Manual for Mechanical Systems, 3RD

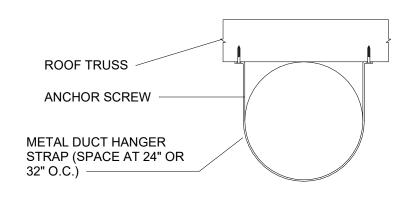
BRACE DUCTS AS PER SMACNA Seismic Restraint Manual Guidelines for

SEE SMACNA Seismic Restraint Manual Guidelines for Mechanical Systems,

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.



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

GIRDER JOIST L / D = .3330.00° MIN 12"

6 Duct - Typical Slice Detail N.T.S.

EXISTING FURNACE SCHEDULE External Static Pressure Efficency Rating Cooling Capacity (Tons) Voltage
0.5 in-wg 98 3 120 V Supply Air Return Air Outside Air Relief Air Heat Input Heat Load Gas Connection 75,000 Btu/h 27,300 Btu/h 1,200 CFM 1,130 CFM 153 CFM 83 CFM

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· WONTANA. HENDRIK F BRENKMAN No. 105036PE

 $\Box$ 

**MECHANICAL** SCHEDULES

All Plumbing shall be in accordance with local regulations and the Uniform Plumbing Code of 2021. 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.

functional system in accordance to the intent of the plans.

Contractor shall verify all existing construction prior to submitting his bid. No extras will be paid due to unanticipated existing Extra charges - any discrepancies and omissions discovered shall be reported to the engineer immediately and prior to tender

closing for rectification by addendum. Shop drawings - submit 1 copy in pdf format to the engineer for 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 and specifications.

Maintenance manuals - contractor shall provide 2 copies complete with shop drawings. Three ringer binder style is acceptable. Provide on-site operating seminar to familiarize owner with all functions of new equipment

Warranty - mechanical contractor shall provide written warranty

on his system for one full year from time of acceptance by the Excavation - plumbing contractor shall excavate for his work and

back fill to 2" above pipes with sand. Structural - Misc. Steel support hangers for unit heaters, fans, heat pumps, etc. Shall be by the mechanical with clamps to structure, not welded. Structural reinforcing for equipment is by

general contractor. 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. Potable water copper piping shall use lead-free solder. testing inside water lines shall hold 100 psi air for 1 hour.

Natural gas - plumber shall provide low pressure gas lines to appliances complete with yellow paint coating on pipe where exposed to outdoors. Confirm meter size with local gas utility company. Utility upgrade costs to be borne by owner. Plumbing contractor shall be on site to sleeve Plumbing openings

through concrete, to flash and counter flash and to coordinate joist locations away from mechanical shafts. 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 kind made by the design professional to any party with whom the

design professional has not entered into a contract. The written book specification takes precedence over these

### GENERAL PIPING NOTES

Piping material shall be as follows (Unless otherwise indicated in specification):

Underground water service: PEX-AL-HDPE with oxygen barrier. Above ground hot and cold water piping: Copper type L in exposed areas or Standard PEX in concealed areas. Drain waste and vent piping: Schedule 40 PVC DR22..

Gas piping: to ASTM A106 schedule 40. Poolroom/Pool Equipment Room: Stainless Steel 316 (to NSF 61 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". Domestic hot, hot water recirculation and hydronic lines shall have minimum 1" thermal insulation with minimum R-value of R-4 (unless otherwise

indicated) c/w vapor barrier. Joints to be taped throughout facility. Hangers to have guides to allow for complete pipe insulation. Pipe insulation in plenums to be plenum rated. See note: PLUMBING IN RETURN AIR PLENUMS.

Contractor is responsible for routing water piping around zones that would be prone to freezing. The contractor will be responsible for any repairs and corrections to water lines not appropriately routed around freeze prone

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. Install water hammer arrestors as indicated by code and where shown on

plans. Concealed location arrestors are to be rated. All hot and cold domestic water lines to fixtures shall be minimum 1/2". 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 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. Plumbing piping shall not be installed above electrical panels. Provide required clearances per "N.E.C." coordinate work with electrical contractor. Caulk all pipe penetrations through fire rated walls. All caulking on building

penetrations shall be a 1-component non-sag urethane sealant. Provide intumescent pipe donuts at all penetrations of combustible piping form main floor ceiling space and main floor fire separations.

After completion of construction all water supply systems must be purged of all deleterious matter and disinfected. as per IPC 602.3.4 and IPC 610.

### GENERAL PLUMBING FIXTURE NOTES

All plumbing fixtures shall be furnished c/w necessary traps, stops, tail pieces, trim, shut-off valves, circuit setters on hot water recirc. etc. Plumbing contractor to supply and coordinate all plumbing fixture voltage

and power requirements with electrical contractor. All water heaters and hot water storage tanks shall have a drain valve installed at the bottom of the tank as required by code. All water heaters

shall be seismically anchored as per code. Provide sanitary venting piping for all fixtures.

### IECC CLOSE OUT REQUIREMENTS

Contractor to provide to the owner and design engineer a preliminary equipment testing report prior to final mechanical inspection.

Contractor to provide to the owner the following items within 90 days of receiving certificate of occupancy. As-Build drawings showing installed equipment. Operating and maintenance manuals including routine

maintenance requirements, name and address of servicing agency, narrative of controls, and recommended operating

System balancing report. Equipment testing report.

openings and 10ft from mechanical intakes.

### GAS APPLIANCES AND REGULATIONS NOTES

All gas piping shall comply with the international Fuel Gas Code of 2021. Provide step-down regulators at all appliances and size as per International Fuel Gas Code of 2021.

Vent natural gas regulators to outdoors. Terminate min. 3 ft from building

GENERAL PLUMBING PROTECTION NOTES

Install backflow preventers in each water supply to mechanical equipment and systems and to other equipment and systems and to other equipment and water systems that may be sources of contamination. Comply with authorities having jurisdiction.

Locate backflow preventers in same room as connected equipment or

Install drain for backflow preventers with atmospheric-vent drain connection with air-gap fitting, fixed air-gap fitting, or equivalent positive pipe separation of at least two pipe diameters in drain piping and pipe-to-floor drain. Locate air-gap device attached to or under backflow preventer. Simple air breaks are unacceptable for this application.

Do not install bypass piping around backflow preventers. Provide water pressure regulator when required by authority having jurisdiction and in compliance with the Uniform Plumbing Code of 2021.

#### SEISMIC CONTROL NOTES

Install tight to structure. Seismic control measures not to jeopardize noise and vibration isolation systems. Provide 1/4" to 3/8" clearance during normal operation of equipment

and systems between seismic restraint and equipment. Incorporate seismic restraints into vibration isolation system to resist complete isolator unloading.

### PLUMBING IN RETURN AIR PLENUMS

Treat all ceiling spaces as return air plenums. All materials used in return air plenums must have flame-spread index of 25 or less, and smoke-developed index of 50 or less when tested in accordance with ASTM E84 or UL 723 (be plenum rated).

GENERAL SANITARY NOTES

wall surfaces. Vents through roof shall be min. 3" diameter at penetration unless otherwise indicated. Provide all required flashing to make vent penetration

Provide chrome escutcheon cover plates at all pipe penetrations of finished

waterproof. Space floor cleanouts no more than 100ft. Provide floor cleanouts in horizontal drains where the direction change by more than 45 degrees. Cleanout size shall be the same than the piping served.

Provide a trap guard for all floor drains. Mount wall cleanouts at all wall mounted plumbing fixture drains.

#### PLUMBING ALTERNATE NOTE

Alternate plumbing equipment is acceptable. Alternates must be equal or better in performance, durability, and warranty.

REFER TO BOOK SPEC. WHERE THERE IS ANY DISCREPANCY, GIVE PRECEDENCE TO BOOK SPECIFICATIONS

### SHEET LIST - PLUMBING

Sheet Number Sheet Name **Current Revision Description** Current Issue

PLUMBING OVERVIEW P101 PLUMBING PLAN

PLUMBING DETAILS

P102

**GAS METER** WALL CLEANOUT

BALL VALVE PLUG VALVE

PRESSURE REGULATOR

DCW DOMESTIC COLD WATER DOMESTIC HOT WATER DHW DOMESTIC HOT WATER RECIRCULATION DHWR SANITARY

VENT STORM NON-POTTABLE SHOP COLD WATER

AIR LINE GR-SAN GREASE SANITARY LINE

→ PLUMBING LEGEND

AREA OF SCOPE

3 - ROOF PLUMBING - CONSTRUCTION
3/16" = 1'-0"

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PROJECT #:

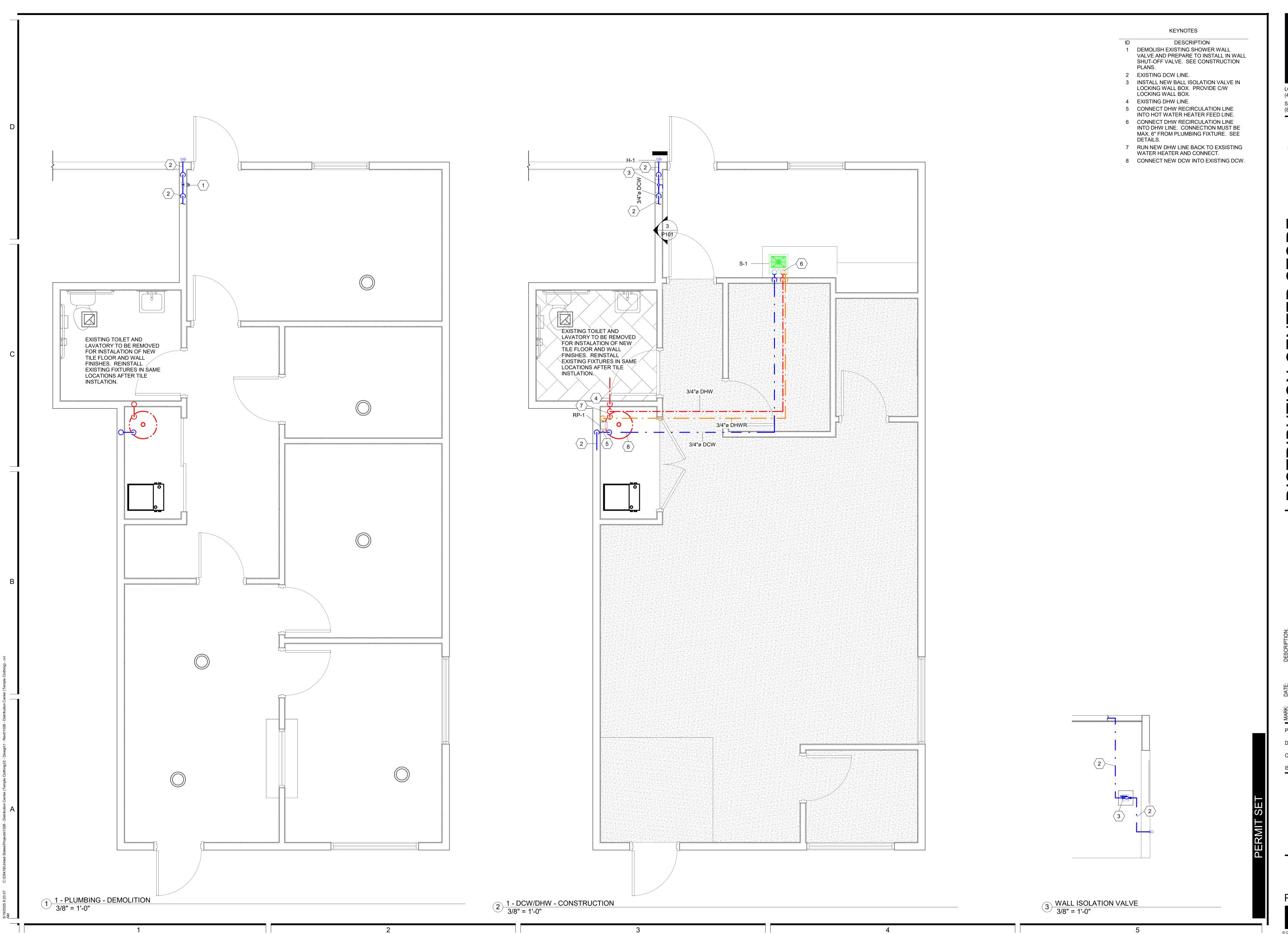
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4/22/25

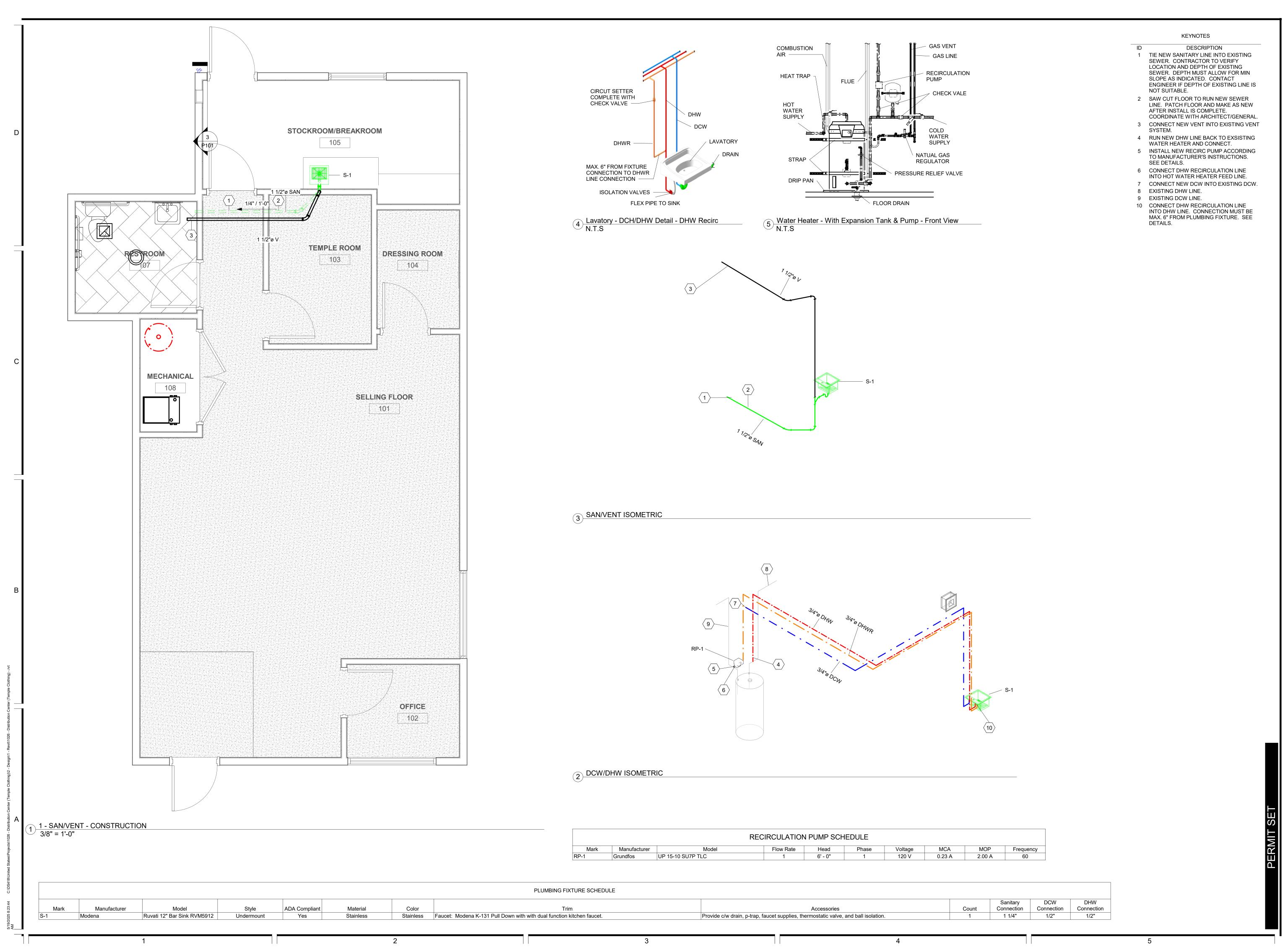
**PLUMBING OVERVIEW** 



> · NONTANA. HENDRIK F BRENKMAN No. 105036PE

4/22/25 ISSUED:

PLUMBING PLAN P101



> · WONTANA. HENDRIK F BRENKMAN No. 105036PE

4/22/25

PLUMBING **DETAILS** 

a. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ANY CONDITIONS REQUESTED DURING THE BIDDING REQUIREMENTS. B. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE

C. ALL LABOR, MATERIAL OR EQUIPMENT NEEDED FOR THE INSTALLATION AND COMPLETION OF THE ELECTRICAL WORK DESCRIBED IN THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS SHALL BE PROVIDED EVEN IF NOT SHOWN ON THE

ACCOMPANYING DRAWINGS. a. ELECTRICAL SERVICE AND FEEDERS

ACCOMPANYING DRAWINGS AND SPECIFICATIONS.

b. BRANCH WIRING AND GROUNDING c. WIRING DEVICES

d. ELECTRICALLY OPERATED MOTORS AND EQUIPMENT HOOK-UP e. HVAC EQUIPMENT HOOK-UP

ELECTRICAL DISTRIBUTION EQUIPMENT

g. LIGHTING FIXTURES WITH LAMPS h. COMMUNICATION RACEWAY AND LOW VOLTAGE SYSTEMS AS GENERATOR, EMERGENCY DISTRIBUTION AND EMERGENCY BRACH WIRING

FIRE ALARM SYSTEM MATERIALS AND EQUIPMENT

A. ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL

BE UL LISTED. B. ELECTRICAL CONTRACTOR SHALL SUBMIT A SET OF SHOP DRAWINGS AND CATALOG CUT SHEETS ON THE FOLLOWING ITEMS TO THE ARCHITECT AND GENERAL CONTRACTOR FOR APPROVAL.

C. DISTRIBUTION EQUIPMENT D. LIGHTING FIXTURES a. DEVICES

E. IF A SUBSTITUTION OF ANY MATERIALS IS PROPOSED BY THE ARCHITECT OR GENERAL CONTRACTOR, IT MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY CHANGES BEING

STANDARD OF INSTALLATION

A. THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, THE CITY, STATE, OR ANY LOCAL ORDINANCES AND UTILITY REGULATIONS ARE A PART OF THIS SPECIFICATION.

PERMITS AND UTILITY COSTS 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 OBTAINED THROUGH THE GENERAL CONTRACTOR. UTILITY CONNECTION FEES ARE NOT INCLUDED IN ELECTRICAL CONTRACT UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.

A. THE ELECTRICAL DRAWINGS ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS AND SCOPE OF WORK TO BE PREFORMED AND ARE NOT CONSIDERED AS COMPLETE. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL WORK INDICATED ON DRAWINGS

AND SPECIFICATIONS WITHOUT ADDITIONAL COST B. BEFORE STARTING WORK THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE PLANS AND INFORM THE ENGINEER OF ANY DISCREPANCIES BETWEEN THEM AND THE SPECIFICATIONS. IF DISCREPANCIES ARE FOUND HE SHALL REPORT THEM TO THE ENGINEER IN WRITING SO THE ENGINEER CAN PRODUCE INSTRUCTIONS FOR CHANGES IN WORK. DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO BID AS TO RESOLVE ISSUES PRIOR TO CONSTRUCTION.

A. THE ELECTRICAL CONTRACTOR SHALL COMPLETE ALL TESTS

REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. B. THE COSTS OF ALL TESTS, THE REPLACING AND REPAIRING OF ANY DAMAGE RESULTING FROM TESTS AND ANY WORK NEEDED TO ADDRESS TEST RESULTS, ETC. NOT IN ACCORDANCE WITH ELECTRICAL CODE, SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS, SHALL BE THE ELECTRICAL CONTRACTOR

RESPONSIBILITY. C. SHOULD THE ELECTRICAL CONTRACTOR REFUSE OR NEGLECT TO MAKE ANY TESTS NECESSARY TO SATISFY THE ENGINEER OR HIS REPRESENTATIVE. THE ENGINEER MAY RUN THE TESTS AND ALL COSTS WILL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY.

GUARANTEE A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK EXCEPT FOR LIGHT FIXTURE LAMPS UNDER THIS CONTRACT, TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE PROJECT COMPLETION DATE. ALL DEFECTS OF ELECTRICAL SCOPE 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 GUARANTEE.

IDENTIFICATION A. ALL PANELBOARD'S, STARTERS, DISCONNECT SWITCHES, MAIN CIRCUIT BREAKERS, MAJOR JUNCTION BOXES AND OTHER SPECIALTY EQUIPMENT ITEMS INSTALLED BY THE ELECTRICAL

CONTRACTOR SHALL BE IDENTIFIED WITH PERMANENTLY ATTACHED ENGRAVED PLASTIC NAMEPLATE. B. THE LABEL SHALL IDENTIFY THE EQUIPMENT NAME ON THE FIRST

LINE AND THE PANEL IT IS FED FROM ON THE SECOND. 9. ELECTRICAL SERVICE A. COORDINATE AND ASSIST THE UTILITY COMPANY IN THE

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. 10. GROUNDING A. PROVIDE GROUNDING FOR ENTIRE ELECTRIC INSTALLATION AS

INDICATED BY DRAWINGS AND SPECIFICATIONS B. PROVIDE GROUNDING FOR ELECTRICAL SERVICE, EQUIPMENT, ENCLOSURES, CONDUITS, SWITCHBOARDS, MCC'S, PANELBOARDS,

TRANSFORMERS, LOW VOLTAGE CABINETS, ETC. C. GROUNDING-SIZE AND TYPE OF GROUND CONDUCTOR AS PER NATIONAL ELECTRICAL CODE, ARTICLE 250. CONNECTIONS SHALL BE MADE WITH APPROVED CLAMPS AT MAIN WATERLINE SERVICE

ENTRANCE. D. MEET ALL GROUNDING REQUIREMENTS AS PER THE CURRENT N.E.C.. **ELECTRICAL SPECIFICATIONS** 

11. ELECTRIC WIRING

a. ROUTING OF CONDUIT SHALL BE SUITED TO THE JOB CONDITIONS AND UP TO THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL TRADES DRAWINGS SHOULD BE CLOSELY REVIEWED FOR TYPE OF CONSTRUCTION AND RUNNING OF CONDUITS. NO STRUCTURAL MEMBERS WILL BE

CUT WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. ALL

BUILDING. b. ROUGH-IN OF ELECTRICALLY OPERATED UNITS SHALL BE COORDINATED WITH THE SUPPLIERS OF EQUIPMENT. c. HEIGHTS AND LOCATIONS OF SWITCHES, PLUGS WALL FIXTURES. ETC. SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS,

CONDUIT WILL BE INSTALLED AT RIGHT ANGLES TO THE

GENERAL CONTRACTOR, AND ALL SUBCONTRACTORS AS REQUIRED. B. RACEWAYS OR CONDUITS

a. ALL CONDUIT EXPOSED TO MECHANICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL, IMC, OR AS NOTED ON THE DRAWINGS. ALL OTHER CONDUITS MAY BE ELECTRICAL METALLIC TUBING. PVC CONDUIT SHALL BE SCHEDULE 40 OR AS NOTED ON DRAWINGS. EXPANSION COUPLINGS SHALL BE USED 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 APPROVED METHOD OF CONDUIT SUPPORTING. c. ALL CONDUIT SIZES SHALL BE IN STRICT ADHERENCE WITH THE CURRENT NATIONAL ELECTRICAL CODE, UNLESS WHERE THE DRAWINGS HAVE OVER SIZED THE MINIMUM REQUIREMENTS,

THEN THE LARGER SIZE SHALL APPLY. a. ALL CONDUCTORS RATED UNDER 100A SHALL BE COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL ALUMINUM WIRE TERMINATIONS WILL HAVE NOLOX OR EQUAL ANTI-OXIDANT JOINT COMPOUND APPLIED TO THE TERMINATION.

b. ALL WIRE SIZES #14 TO #10 SHALL BE TYPE THWN/THHN. THHN RATED WIRE SHALL NOT BE USED IN AREAS SUBJECT TO WATER SUCH AS IN CONDUITS BELOW GRADE.

c. ALL WIRE SIZES #8 OR LARGER SHALL BE TYPE THWN OR THW STRANDED UNLESS NOTED OTHERWISE.

d. WIRE INSTALLED IN FIXTURE PANS SHALL BE TYPE AWM OR e. FURNISH AND INSTALL GROUND CONDUCTOR PER THE CURRENT

NEC WHEN NON-METALLIC CONDUIT IS USED OR AS NOTED ON THE DRAWINGS 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-

GRID CEILINGS. g. BRANCH CIRCUITS FOR WHICH THE DISTANCE FROM PANELBOARD TO THE NEAREST DEVICE ARE MORE THAN 100' THE ELECTRICAL CONTRACTOR MUST UPSIZE HIS BRANCH WIRING ACCORDING TO THE VOLTAGE DROP TABLE ON THE ACCOMPANYING DRAWINGS.

D. BOXES AND FITTINGS a. ALL CONDUIT BOXES AND ASSOCIATED MATERIAL SHALL BE

GALVANIZED AND UL LISTED. b. ALL CONDUIT CONNECTORS OR CONDUIT CONNECTION POINTS MUST BE INSULATED TO PROVIDE PROTECTION TO THE WIRING. c. ALL FITTINGS FOR CONDUIT SHALL BE WATER TIGHT OR STEEL SET SCREW

d. OUTLETS IN PLASTERED PANELS AND FURRED FINISH SHALL BE EQUIPPED WITH PLASTERED RINGS AND EXTENSION OF SUCH DEPTH TO BRING OUTLET FLUSH WITH SURFACE FINISH. e. SURFACE MOUNTED BOXES IN DAMP OR WET LOCATIONS, AND

BOXES MOUNTED ON A CONDUIT STUB-UP SHALL BE TYPE "FS"

OR "FP" BOXES WITH THREADED HUBS, MOUNTING EARS AND WEATHERPROOF COVERS. E. WIRING PROCEDURE a. ALL WIRING IN CONDUIT SHALL HAVE NO MORE THAN THREE (3) 17. DRY-TYPE TRANSFORMERS

CIRCUITS PER HOME RUN, UNLESS DERATED AS PER NEC 310-15b. THE ARCHITECT / ENGINEER RESERVES RIGHT TO MAKE ANY

REASONABLE CHANGES IN THE LOCATION OF OUTLETS BEFORE ROUGHING-IN WITHOUT ADDITIONAL EXPENSES TO THE OWNER. c. THE LAYOUT OF THE WIRING SYSTEM AS INDICATED IS GENERALLY SCHEMATIC AND LOCATION OF OUTLETS SHALL BE CHECKED WITH MILL WORK, EQUIPMENT SUPPLIERS, AND

GENERAL CONTRACTOR. 12. MOTORS AND ELECTRICALLY OPERATED EQUIPMENT A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS SHALL BE BE WIRED UNDER

DIVISION 16 ELECTRICAL AND AS NOTED ON THE ELECTRICAL DRAWINGS. B. CHECK SUPPLIERS EQUIPMENT FOR COMPLETE WIRING DETAILS.

C. CONNECT ALL MOTORS WITH FLEXIBLE CONDUIT AS PER THE CURRENT NEC. D. CHECK MOTOR STARTER FOR HEATER SIZES AND FUSED DISCONNECTS FOR FUSE SIZES.

13. HEATING AND VENTILATING EQUIPMENT A. THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL LINE VOLTAGE CONNECTIONS FOR ALL HVAC AND BUILDING EQUIPMENT AS PER THE ELECTRICAL EQUIPMENT HOOK-UP SCHEDULE B. ALL HVAC CONTROL WIRING AND RELATED EQUIPMENT FOR

HEATING AND VENTILATING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. C. THE HEATING AND VENTILATING SPECIFICATIONS SHALL BE A PART OF THESE SPECIFICATIONS AND THE MECHANICAL CONTRACTOR 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. D. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL DISCONNECT SWITCHES THAT ARE REQUIRED BY THE NATIONAL ELECTRICAL CODE FOR ALL MECHANICAL EQUIPMENT AS PER ELECTRICAL EQUIPMENT SCHEDULE UNLESS FACTORY FURNISHED WITH MECHANICAL EQUIPMENT.

14. LIGHTING FIXTURES

A. ALL LIGHTING FIXTURES SHALL BE FURNISHED WITH THE PROPER MOUNTING ACCESSORIES TO SUIT INTENDED APPLICATION. a. ALL OUTDOOR FIXTURES SHALL BE RATED FOR THE

APPROPRIATE CONDITIONS.

b. ALL LIGHTING FIXTURES SHALL BE UL LISTED. c. BEFORE ORDERING LIGHT FIXTURES THE ELECTRICAL CONTRACTOR WILL VERIFY EACH FIXTURES MOUNTING EQUIPMENT AND INFORM THE ENGINEER IF THERE ARE DISCREPANCIES WITH THE MOUNTING HARDWARE AND THE MOUNTING SURFACE OF THE LIGHT FIXTURE. IF THIS IS NOT

DONE THE COSTS TO CHANGE THE MOUNTING EQUIPMENT AND LABOR WILL BE THE ELECTRICAL CONTRACTOR RESPONSIBILITY. RECESSED FIXTURES SHALL BE SECURED TO THE BUILDING STRUCTURE. DROP IN FIXTURES SHALL BE SUPPORTED WITH WIRE SUPPORTS WITH A MINIMUM OF TWO (2) PER FIXTURE WITH ONE AT OPPOSITE ENDS OF EACH OTHER. WIRES TO BE SECURED TO THE BUILDING STRUCTURE AND PROVIDE FOUR (4)

EARTHQUAKE CLIPS PER FIXTURE e. ELECTRICAL CONTRACTOR TO VERIFY WITH GENERAL CONTRACTOR IF FIRE RATED BOOTS ARE REQUIRED FOR RECESSED LIGHT FIXTURES PRIOR TO BID. NO EXTRAS WILL BE

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 BY GENERAL ELECTRIC, PHILLIPS, SYLVANIA.

15. PANELBOARD'S A. PANEL BOARDS AND SWITCHBOARDS SHALL BE SQUARE D. SIEMENS. G.E. OR CUTLER HAMMER. THE PANELS SHALL BE HOUSED IN A GALVANIZED STEEL CAN WITH HINGED COVER DOOR. THE DOOR SHALL BE KEYED DOOR LOCK WITH ALL KEYS ALIKE. ALL PAINTED SURFACES SHALL BE BONDERIZED AND PAINTED WITH THREE (3) COATS OF PRIMER AND FINISH PAINT. THE PANELS SHALL BE TOP OR BOTTOM FEED AS REQUIRED. THE PANEL SHALL HAVE A SOLID BUSING AND NEUTRAL TERMINAL PLATE, AND SHALL BE BRACED TO WITHSTAND THE MAXIMUM SHORT CIRCUIT INTERRUPTING CAPACITY

OF ANY DEVICE MOUNTED THEREIN. B. A WRITTEN CIRCUIT DATA SHALL BE PROVIDED IDENTIFYING OUTLET AND EQUIPMENT CONTROLLED PER CIRCUIT NUMBER ON CARD PROVIDED WITH PANEL. DIRECTORY HOLDER SHALL BE FURNISHED ON INNER FACE OF HINGED DOOR. CONTRACTOR SHALL PROVIDE

TYPED CIRCUIT DIRECTORY CARD AT COMPLETION OF PROJECT. C. ALL PANEL BOARDS SHALL HAVE A GROUND BUS WITH LUGS AS REQUIRED. FURNISH ALL FUSES, SPARE FUSES AND FUSE CABINET AS NOTED ON DRAWINGS.

WIRING DEVICES A. RELATED DOCUMENTS: THE GENERAL PROVISIONS OF THE CONTRACT AND THE GENERAL CONDITIONS APPLY TO THE WORK SPECIFIED IN THIS SECTION.

B. DUPLEX RECEPTACLES a. DUPLEX RECEPTACLES SHALL BE 3-POLE GROUNDING TYPE WITH THE THIRD POLE "U" SHAPED AND GROUNDED TO THE CONDUIT SYSTEM AND SHALL BE P&S, HUBBELL, LEVITON OR AN APPROVED EQUAL TO:

C. TOGGLE SWITCHES a. ALL TOGGLE SWITCHES SHALL BE COMMERCIAL/INDUSTRIAL TYPE 15 & 20 AMP, 120/277 VAC AND SHALL BE P&S, HUBBELL,

LEVITON OR APPROVED EQUAL TO: D. WIRING DEVICE COVERS a. COVERS SHALL BE P&S TYPE TP SERIES COLOR AS SELECTED BY ARCHITECT TO MATCH DEVICE(S) COVERED, EXCEPT THAT OUTLETS MOUNTED IN TOE SPACE OR NEXT TO FLOOR SHALL

HAVE STAINLESS STEEL COVERS. SURFACE OUTLETS SHALL HAVE GALVANIZED COVERS. b. WIRING DEVICE COVER PLATES LOCATED ON EXTERIOR WALLS OR IN AREAS OF EXCESSIVE MOISTURE SHALL BE WEATHER

c. ALL FLOOR RECEPTACLES SHALL INCLUDE CARPET OR TILE FLANGE COMPLETE.

A. RELATED DOCUMENTS: RELATED DOCUMENTS: THE GENERAL PROVISIONS OF THE CONTRACT AND THE GENERAL CONDITIONS APPLY TO THE WORK SPECIFIED IN THIS SECTION.\

B. GENERAL a. FURNISH AND INSTALL DRY-TYPE TRANSFORMERS AS INDICATED ON THE PLANS AND AS SPECIFICATIONS.

C. DESCRIPTION a. TRANSFORMERS SHALL HAVE A MINIMUM 4-1/2% FULL CAPACITY PRIMARY TAPS. b. TRANSFORMERS SHALL BE 150°C TEMPERATURE RISE ABOVE 40

C AMBIENT. c. PROVIDE TRANSFORMERS 500 KVA AND LARGER WITH A VIBRATION ISOLATING SYSTEM DESIGNED TO PROVIDE A 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 18. MOTOR STARTERS A. STARTERS SHALL BE LINE VOLTAGE, NON-REVERSING, 3-POLE TYPE WITH THERMAL OVERLOAD, SINGLE-PHASE, AND LOW VOLTAGE PROTECTION WITH A NORMALLY OPEN AND CLOSED AUXILIARY CONTACT AND RESET BUTTON IN THE FACE. THE COIL VOLTAGE SHALL BE RATED FOR 120 VAC. PROVIDE FUSED CONTROL TRANSFORMER WHEN 120 VAC IS NOT AVAILABLE. SEE ELECTRICAL EQUIPMENT SCHEDULE AND DRAWINGS FOR H.O.A.'S, PILOT LIGHTS,

ETC. 19. SAFETY SWITCHES A. ALL SAFETY SWITCHES 30 AMPS AND LARGER SHALL BE HORSE POWER RATED, EXTERNALLY OPERATED WITH PROVISION FOR 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 VOLTAGE / CURRENT / HORSEPOWER RATING.

<u>ABBREVIATIONS</u> AMPERE INTERRUPTING CAPACITY ABOVE FINISHED FLOOR AMERICAN WIRE GAUGE AWG ALUM ALUMINUM AR AS REQUIRED CKT CIRCUIT CONDUIT /CND PER CONDUIT **CURRENT TRANSFORMER** COPPER DISCONNECT SWITCH EMT ELECTRICAL METALLIC TUBING **EQUIP EQUIPMENT EXISTING** FLA FULL LOAD AMPS GROUND **GROUND** KILOVOLT AMPERE **KILOWATT** KILOWATT HOUR MAXIMUM MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANELBOARD MLO MAIN LUGS ONLY NOT APPLICABLE NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NTS NOT TO SCALE PHASE PNL PANEL **QUANTITY** REMOVE **TYPICAL** VOLTS **VOLT AMPERE** WITHOUT TRANSFORMER

### <u>DEFINITIONS</u>

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED" AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", REQUESTED

BY THE ENGINEER" AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEERS ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AND DOES NOT ALLEVIATE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS ON LOCAL CODES, STANDARDS OR THE CONTRACT DOCUMENTS.

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING AND SIMILAR OPERATIONS." PROVIDE: THE TERM "PROVIDE" MEAN "TO FURNISH AND INSTALL COMPLETE AND READY FOR THE INTENDED USE."

BRANCH CIRCUIT VOLTAGE DROP TABLE

MAX CONDUCTOR LENGTH AT LOAD INDICATED

CONDUCTOR									
CONDUCTOR	15A	12A	9A	6A					
	120	V CIRCUITS							
#12 AWG CU	60 FT	75 FT	100 FT	150 FT					
#10 AWG CU	100 FT	125 FT	166 FT	249 FT					
#8 AWG CU	153 FT	192 FT	256 FT	384 FT					
#6 AWG CU	245 FT	306 FT	408 FT	612 FT					
#4 AWG CU	287 FT	483 FT	644 FT	967 FT					
	277	V CIRCUITS							
#12 AWG CU	130 FT	173 FT	230 FT	350 FT					
#10 AWG CU	230 FT	285 FT	380 FT	590 FT					
#8 AWG CU	350 FT	440 FT	590 FT	900 FT					
#6 AWG CU	550 FT	700 FT	940 FT	1420 FT					
#4 AWG CU	890 FT	1116 FT	1450 FT	2200 FT					

OTWIDOL	OTWIDOL DEGOTAL TION
Ф	DUPLEX RECEPTACLE, NEMA 5-20R
<del> </del>	GFCI RECEPTACLE
<del> </del>	4 PLEX RECEPTACLE
#	4 PLEX GFCI RECEPTACLE
Ф ^A	"A" INDICATES RECEPTACLE IS INSTALLED ABOVE COUNTER.
ФС	"C" INDICATES RECEPTACLE IS INSTALLED ABOVE CEILING.
<b>⊕</b> WP	GFCI RECEPTACLE WITH WEATHER PROOF WHILE IN USE COVER.
<b>\odols</b>	SPECIAL RECEPTACLE TO MATCH EQUIPMENT PLUG.
<b>①</b>	JUNCTION BOX
<b>▼</b>	DATA OUTLET
$\nabla$	TELEPHONE OUTLET
$oldsymbol{ abla}$	DATA TELEPHONE OUTLET
	EQUIPMENT CONNECTION WITH DISCONNECT
	EQUIPMENT CONNECTION WITH FUSED DISCONNECT
⊠ [*]	EQUIPMENT CONNECTION WITH NO DISCONNECT
\$ _{TH}	EQUIPMENT CONNECTION W/THERMAL SWITCH
P-1	EQUIPMENT INDICATOR, SEE EQUIPMENT SCHEDULE.
\$	SINGLE POLE SWITCH
	LOW VOLTAGE SWITCH
Ϋ́	WALL OCCUPANCY SENSOR
PC _X	LIGHTING CONTROL SYSTEM PHOTO CELL. X INDICATES ZONE
©S _X	LIGHTING CONTROL SYSTEM OCCUPANCY SENSOR. X INDICATES ZONE
RC	LIGHTING CONTROL ROOM/ZONE CONTROLLER.
/	LIGHTING CONTROL LOW VOLTAGE WIRING
A-1,2,3	BRANCH CIRCUIT HOME RUN. ARROWS INDICATE NUMBER OF CIRCUITS. LETTER AND NUMBERS INDICATED PANEL AND CIRCUT NUMBERS. USE #12 CONDUCTORS UNLESS OTHERWISE INDICATED.
1	CONDUIT & CONDUCTOR "CC" SCHEDULE INDICATOR, REFER TO ONELINE DIAGRAM.
EQ	EQUIPMENT CONDUIT & CONDUCTOR, SEE SCHEDULE
lacktriangle	EXIT SIGN
	EMERGENCY LIGHT
[LT-01]	LIGHT FIXTURE TYPE INDICATOR. SEE FIXTURE SCHEDULE.
	FIRE ALARM HORN STROBE
В	FIRE ALARM BELL
	FIRE ALARM SMOKE DETECTOR
Δ	FIRE ALARM CO DETECTOR
$\bigcirc \exists$	TAMPER SWITCH
	FLOW CANTON

ELECTRICAL SYMBOL LEGEND

SYMBOL DESCRIPTION

### **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 3. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR. THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE

WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING

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

AREAS. ROUTE RACEWAYS IN CONCEALED AREAS 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

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

19. PROVIDE SEISMIC BRACING FOR ALL ELECTRICAL

EQUIPMENT UPON REQUEST AT SUBSTANTIAL COMPLETION. 18. DIMENSIONS INDICATING LOCATIONS OF DEVICES ARE TO BE TO THE CENTER OF DEVICE BOX

EQUIPMENT, CONDUITS, CABLES, LIGHT FIXTURES. CABLE

TRAY, ETC. SEISMIC BRACING SHALL BE AS PER IBC 1621.1.13.

(4) SYMBOL LEGEND ン N.T.S.

**FACP** 

Sheet Number

E101

E201

E301

E401

FLOW SWITCH

FIRE ALARM CONTROL PANEL

**ELECTRICAL COVER SHEET** 

**ELECTRICAL CONSTRUCTION** 

ELECTRICAL LIGHTING

ELECTRICAL DETAILS

**ELECTRICAL SCHEDULES** 

" NUMBER OF DROPS AND LOCATIONS

Sheet Name

SHEET LIST - ELECTRICAL

**Current Revision** 

Current Revision Description

(435) 752-7031

(801) 539-8221

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SALT LAKE CITY, UTAH

**ELECTRICAL COVER** 

ANDY POWELL 05/20/25 No. 105118

KEYNOTES

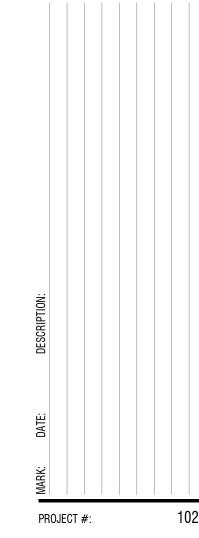
- 1 DISCONNECT ALL LIGHTS, SWITCHES, RECEPTACLES AND ANY OTHER ELECTRICAL EQUIPMENT C/W WIRING. COORDINATE WITH GC TO REMOVE AND DISPOSE OF ALL DISCONNECTED ELECTRICAL EQUIPMENT.
- 2 DIMMABLE LOW VOLTAGE OVERIDE SWITCH FOR OCCUPANCY SENSOR. 3 BUTTON 2 ZONE WITH ON/OFF AND WAVELINX WIRED DIMMING SWITCHPACK.
- 3 PROVIDE INSTALL AND A JUNCTION BOX WITH BLANK COVER IN ACCESSIBLE CEILING SPACE (COORDINATE WITH GC) AS PER NEC REQUIREMENTS. J/BÓX 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 ÈQUIVALENT.
- 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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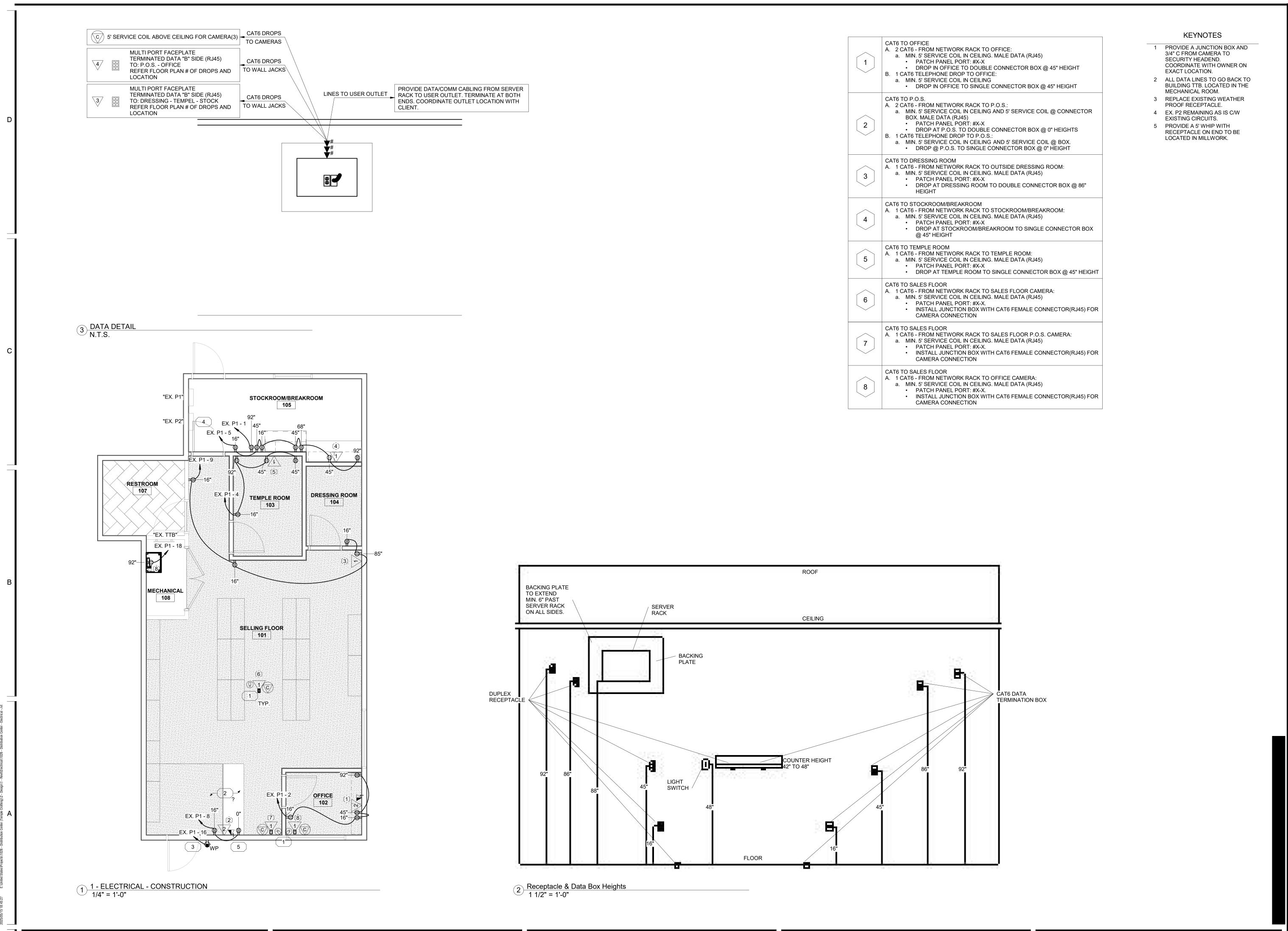
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ELECTRICAL LIGHTING E101





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ELECTRICAL CONSTRUCTION E201



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ELECTRICAL

E301

			LIGHT FIXT	URE SCHEDULE						
ID				LAMP /						Initial Color
	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	COLOR	VOLTAGE	WATTS	MOUNTING	NOTES		x Temperature
L	WHITE 2x2 LAY-IN BACKLIT FLAT PANEL	METALUX	22CGTX45-L940	LED	120 V	37 W	CEILING RECESSED	GLARE REDUCTION FLAT PANEL IN T-GRID APPLICATIONS	4500 lm	4000 K
М	WHITE LOW PROFILE CYLINDRICAL TRACK HEAD	HALO	L815SML05FL940MB	LED	120 V	6 W	STASIS TRACK		500 lm	4000 K
N	WHITE SINGLE CIRCUIT TRACK	HALO	L650P				CEILING	PROVIDE COMPONANTS AND ACCESSORIES FOR A FULL WORKING SYSTEM		
0	POLISHED CHROME ADA COMPLIANT WALL SCONCE 11,75"X8"	OXYGEN	3-521-14-4000K	LED	120 V	15 W	WALL MOUNTED	TURN SCONCE ON/OFF WITH CEILING LIGHTS.	550 lm	4000 K
Р	POLISHED CHROME DECORATIVE CLEAR-GLASS PENDANT WITH BRAIDED POWER CORD	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
Q	RECESSED LED DOWNLIGHT, 6" APERATURE, 1500LM	LITHONIA	LDN6RV 30/15 LR6AR LD	A-19	120 V	18 W	CEILING RECESSED		1511 lm	3000 K
R	BATHROOM VANITY LIGHT FIXTURE - POLISHED CHROME	Oxygen	Orion 3-543-14	LED	120 V	12 W	WALL MOUNTED		1233 lm	3000 K
S1	Slim, flexible LED luminaire for uniform, tunable white light	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
S2	Slim, flexible LED luminaire for uniform, tunable white light	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
S3	Slim, flexible LED luminaire for uniform, tunable white light	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

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ELECTRICAL SCHEDULES E401

**Circuit Description** 

Panel Totals

Total Conn.: 59 A

6

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22

24