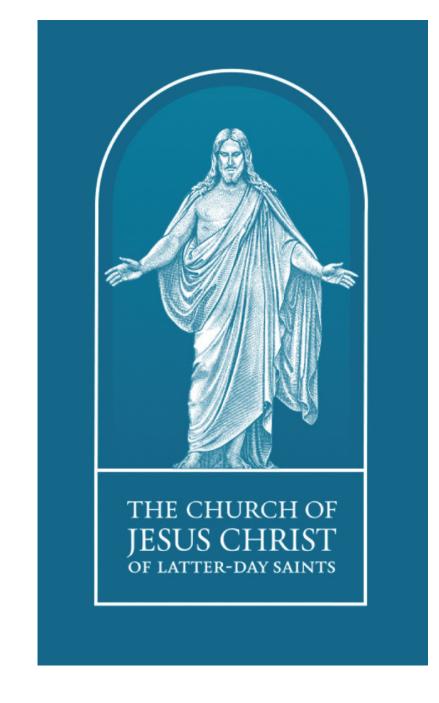
ADDITIONALLY, DRAWINGS MAY NOT BE RE-SCALED WHEN PRINTED, WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE, AND LARGER SCALE DRAWINGS SHALL HAVE PRECEDENCE OVER SMALLER SCALE

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 | ·-· |
| M100 | MECHANICAL OVERVIEW |
| M101 | MECHANICAL PLAN |
| M102 | MECHANICAL SCHEDULES |
| PLUMBING: | |
| P100 | PLUMBING OVERVIEW |
| P101 | PLUMBING PLAN |
| ELECTRICA | L: |
| E100 | ELECTRICAL COVER SHEET |
| E101 | ELECTRICAL LIGHTING |
| E201 | ELECTRICAL CONSTRUCTION |
| E301 | ELECTRICAL DETAILS |
| | |



DESIGN TEAM

ARCHITECTURAL

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OWNER

CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS 4185 N MONTANA AVE, SUITE 1 HELENA, MT 59602 PHONE: PHONE: 385.228.4288

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

ABBREVIATIONS

ELECTRICAL SCHEDULES

| ADDIT | - 11/11/011/0 | | | | |
|---------|-------------------------|----------|---------------------------|---------|-------------------------|
| ABR. | DESCRIPTION | ABR. | <u>DESCRIPTION</u> | ABR. | DESCRIPTION |
| AB | ANCHOR BOLT | EXIST | EXISTING | PART BD | PARTICLE BOARD |
| ABS | ACRYLONITRILE-BUTADIENE | EXP | EXPANSION | PART'N | PARTITION |
| ADO | -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 | PVC | POLYVINYL CHLORIDE |
| ALT | ALTERNATE | FTG | FOOTING | QT | QUARRY TILE |
| ALUM | ALUMINUM | GA | GAUGE | R/ | ROUND |
| ASI | ARCHITECT SUPPLEMENTAL | GALV | GALVANIZED | RAD | RADIUS |
| AOI | INSTRUCTION | GI | GALVANIZED IRON | RD | ROOF DRAIN |
| ASPH | ASPHALT | GYP BD | GYPSUM BOARD | REF | REFRIGERATOR |
| AULII | AUTIALI | HDWD | HARDWOOD | REINF | REINFORCE |
| BB | BASKETBALL | HM | HOLLOW METAL | REV | REVISION |
| BD | BOARD | HORIZ | HORIZONTAL | RFI | REQUEST FOR INFORMATION |
| BLDG | BUILDING | HT | HEIGHT | RO | 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 | KD KO | KNOCK DOWN KNOCK OUT | SS | STAINLESS STEEL |
| C C | CHANNEL | I I | ANGLE | STD | STANDARD |
| CB | 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 | 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 | 0.,01 | CONTRACTOR INSTALLED | W/ | WITH |
| ELECT | ELECTRICAL | OF/OI | OWNER FURNISHED / | WC | WATER CLOSET |
| ELEV | ELEVATION | 0.,01 | OWNER INSTALLED | WD | WOOD |
| EQ | EQUAL | OPNG | OPENING | WM | WATER METER |
| EQUIP | EQUIPMENT | OPP | OPPOSITE | W/O | WITHOUT |
| EWC | ELECTRIC WATER COOLER | 0.T.S. | OPEN TO STRUCTURE | WWF | WELDED WIRE FABRIC |
| | LLLO IIII O WILLIA | 3.1.0. | S. E. TO STREET SILE | ***** | TELDED WITE INDITIO |

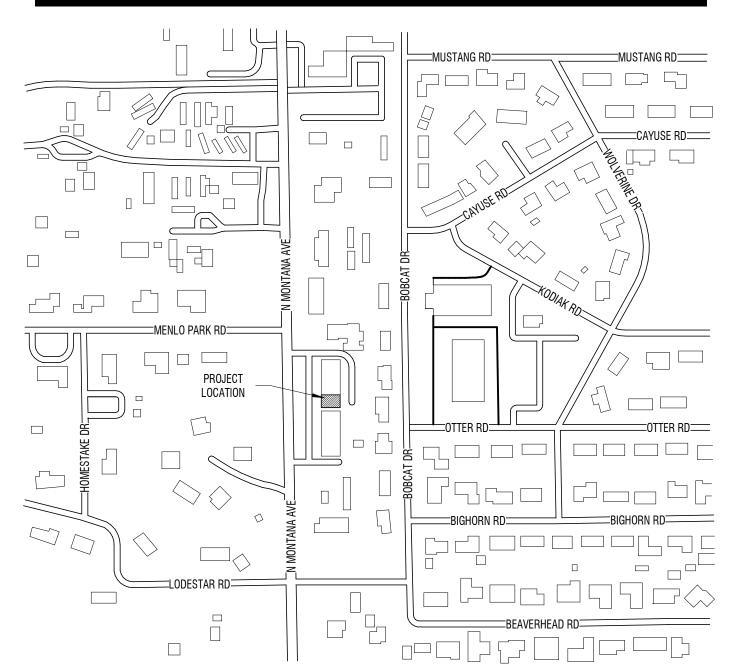
SYMBOLS LEGEND

| <u>DESCRIPTION</u> | <u>SYMBOL</u> | DESCRIPTION | <u>SYMBOL</u> |
|---|---|--------------------|---|
| BUILDING SECTION ———————————————————————————————————— | A1 A-101 A1 A-101 | DRAWING TAG ———— | A1 DETAIL 1/8" = 1'-0" SUB DESCRIPTION |
| | | WINDOW TYPES ———— | STOREFRONT/ CURTAIN WALL |
| DETAIL — | A-101 — — | WALL TYPES — | S6A |
| SECTION DETAIL ENLARGED PLAN | A1 A-101 | DOOR TAG — | DOOR NUMBER A101B A011HMA FRAME TYPE HARDWARE # |
| | lJ | KEYNOTES — | 04.03 NOTE # |
| ELEVATION LEVEL ——— | —————————————————————————————————————— | REVISIONS ———— | DIVISION # |
| ELEVATIONS ——— | INTERIOR EXTERIOR A1/A-101 A1 A-101 | GRID BUBBLE ———— | |
| ROOM TAG ─── | ROOM NAME 101 | EQUIPMENT TAG ———— | D |
| | ROOM NAME CEILING 101 MILLWORK FLOOR CF MF BASE | FINISH TAG — | C1 |
| ROOM FINISH TAG ——— | WALL WALL WALL WALL WALL | NORTH ARROW — | NORTH |

MATERIALS LEGEND

| <u>MATERIAL</u> | <u>SYMBOL</u> |
|-------------------------|---------------|
| EARTH | |
| ASPHALT PAVING | |
| COMPACTED GRANULAR FILL | |
| CONCRETE | |
| 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

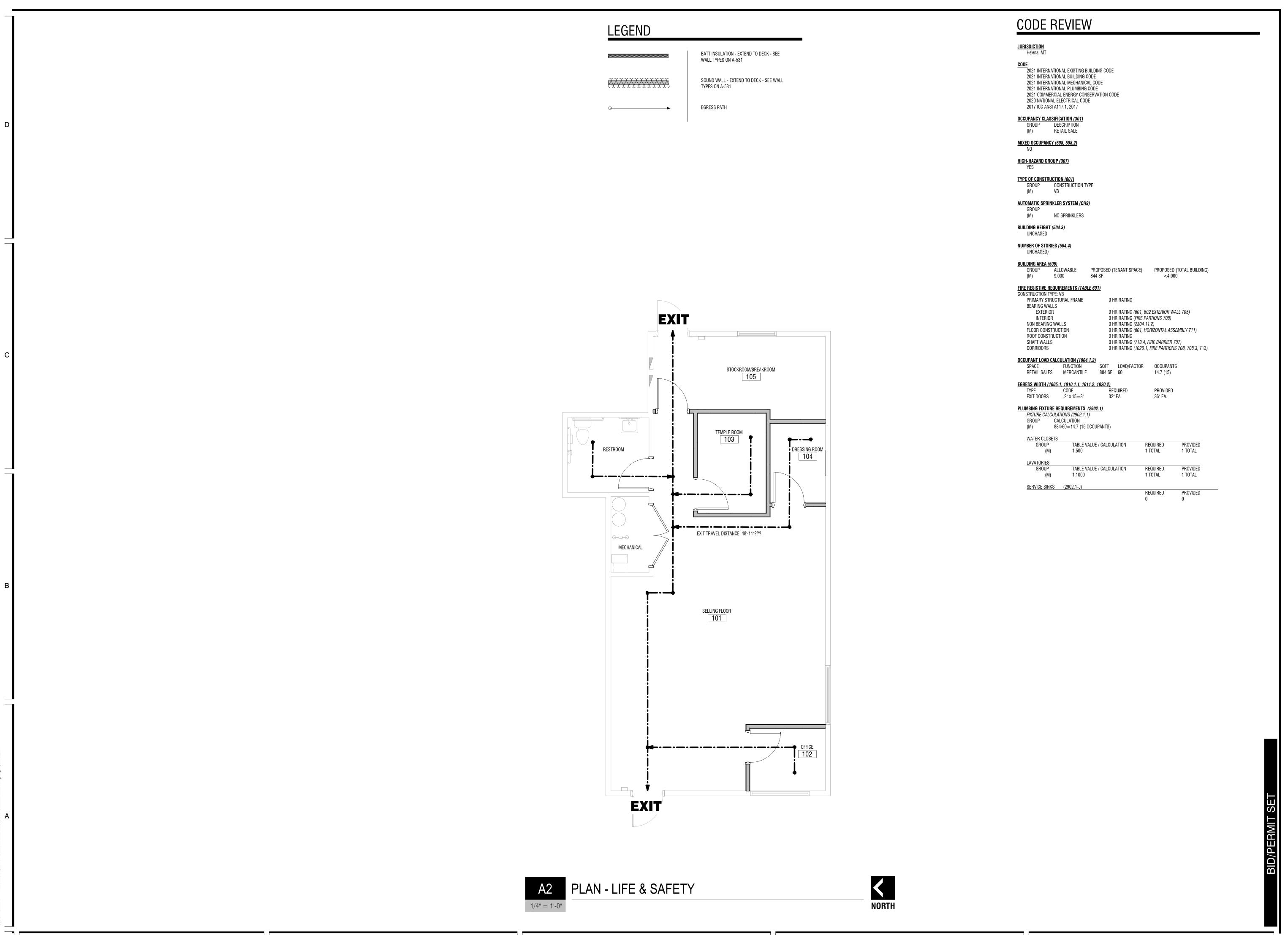


LOGAN, UTAH (435) 752-7031 SALT LAKE CITY, UTAH (801) 539-8221

STORE Δ 田田 EN. RIBUTION N MONTANA AVE

PROJECT INFORMATION

G-001



DESIGN WEST

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

(801) 539-8221

I CENTER STORE Æ, SUITE 1

DISTRIBUTION C
4185 N MONTANA AVE, S
HELENA, MT 59602
THE CHURCH OF JESUS CHRIST OF LAT

LATTER

PROJECT #: 224098
DRAWN BY: HH
CHECKED BY: AZ
ISSUED: 05.30.2028

LETTER DE C. 3

166. 29840

LOGAN, UT.

5.30.2025

TE OF MONTHE

CODE REVIEW

G-002
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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

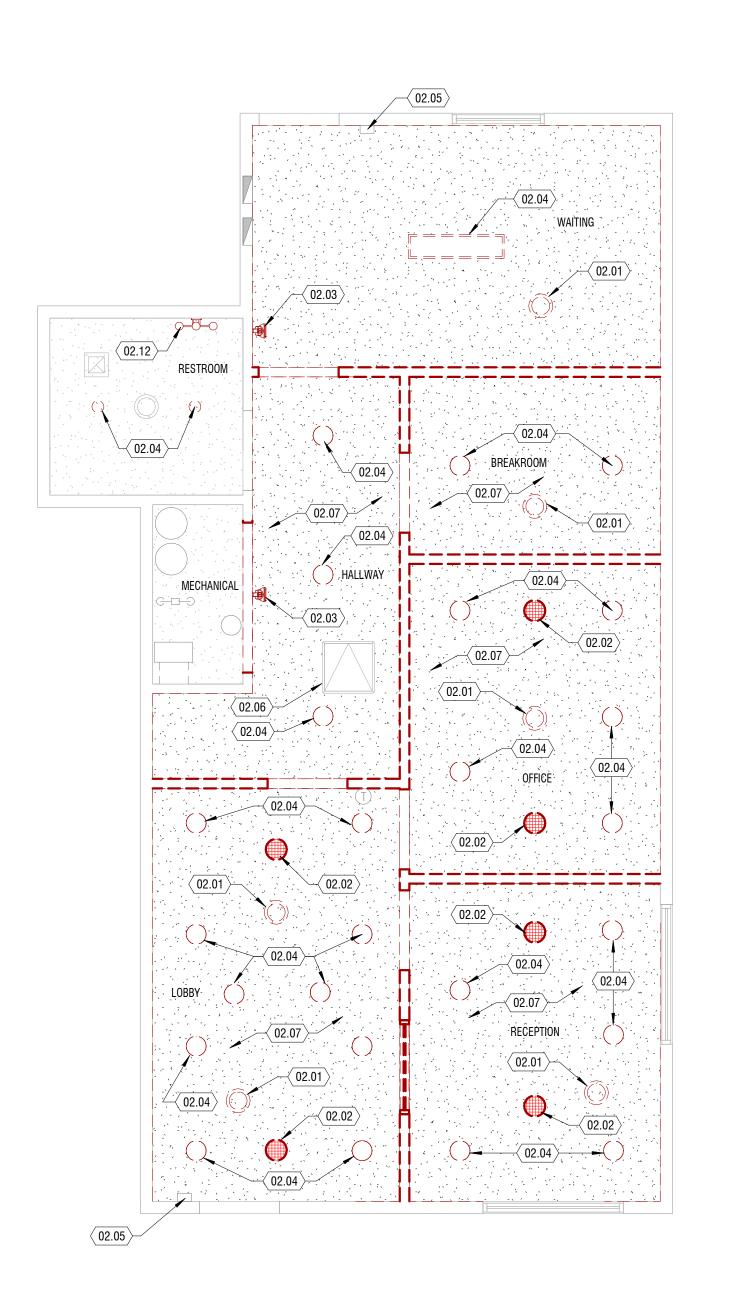
| MARK | DESCRIPTION |
|-------|---|
| 02.01 | EXISTING CEILING DIFFUSER TO BE REMOVED |
| 02.02 | EXISTING CEILING SPEAKER TO BE REMOVED |
| 02.03 | EXISTING WALL SPEAKER TO BE REMOVED |
| 02.04 | EXISTING LIGHT FIXTURE TO BE REMOVED |
| 02.05 | EXISTING SECURITY KEY PAD TO REMAIN |
| 02.06 | EXISTING 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, MIRRO |
| | AND DISPENSORS IN RESTROOM |
| 02.14 | REMOVE ALL WOOD TRIM AT DOORS AND WINDOWS |

LEGEND

EXISTING TO REMAIN

WAITING (02.13) <u>_____</u> RESTROOM **BREAKROOM** (02.09) MECHANICAL

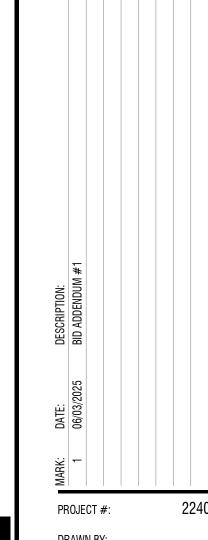
FLOOR PLAN - DEMOLITION



REFLECTED CEILING - DEMOLITION

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

> <u>Ш</u> — . E RIBUTIO N MONTANA

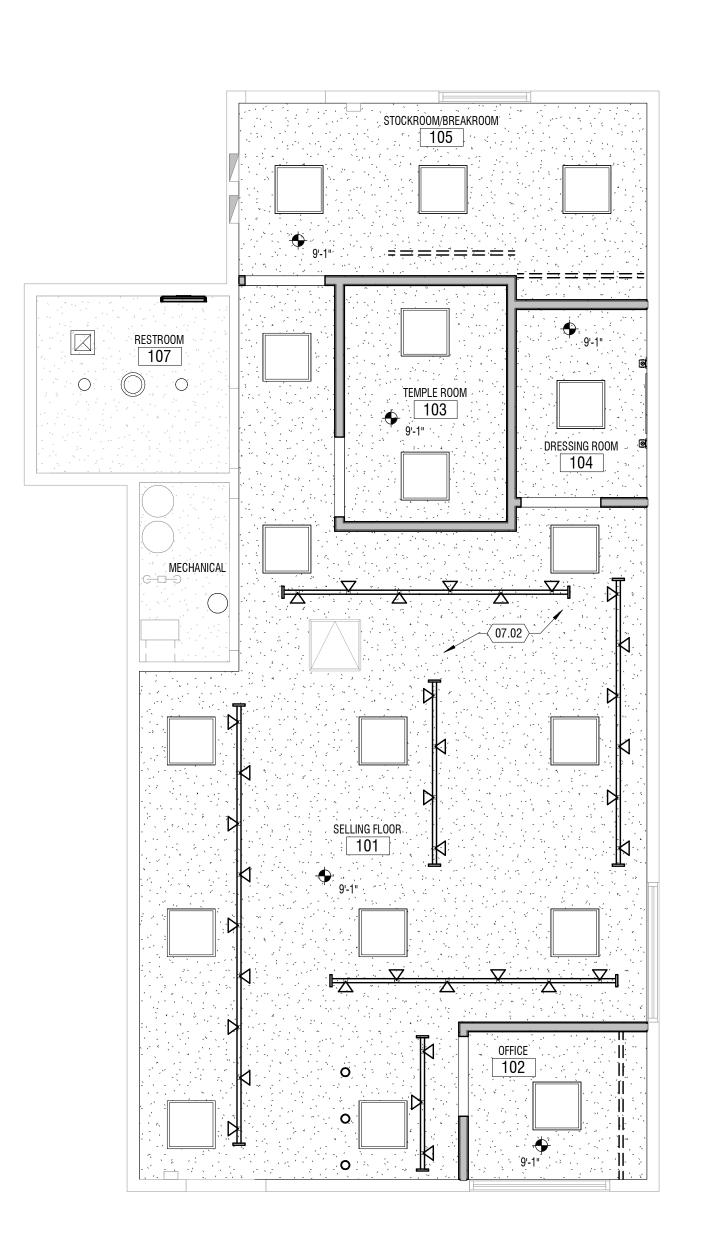


DEMOLITION PLANS AD-101

. <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

(06.02)

13.01

107

MECHANICAL 108

DRESSING ROOM

7'-9 1/2"





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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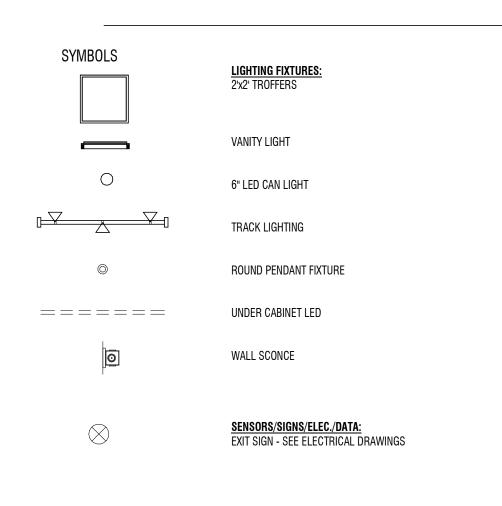
- 2. CONTRACTOR SHALL BE FAMILIARIZED WITH THE LAY-OUT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ANY QUESTIONS SHALL BE SUBMITTED VIA REQUEST FOR INFORMATION (RFI).
- 3. MIN CLEARANCE REQUIRED ON LATCH SIDE OF DOORS SHALL CONFORM TO ADA REQUIREMENTS 12" MIN PUSH SIDE 3" STUD SECTION 18" MIN PULL SIDE
- 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





| AIR GRILLES/ACCESS PANELS: EXHAUST |
|---------------------------------------|
| SUPPLY / FRESH |
| RETURN / RELIEF |
| ACCESS PANEL |
| |

FLOOR PLAN & REFLECTED CEILING

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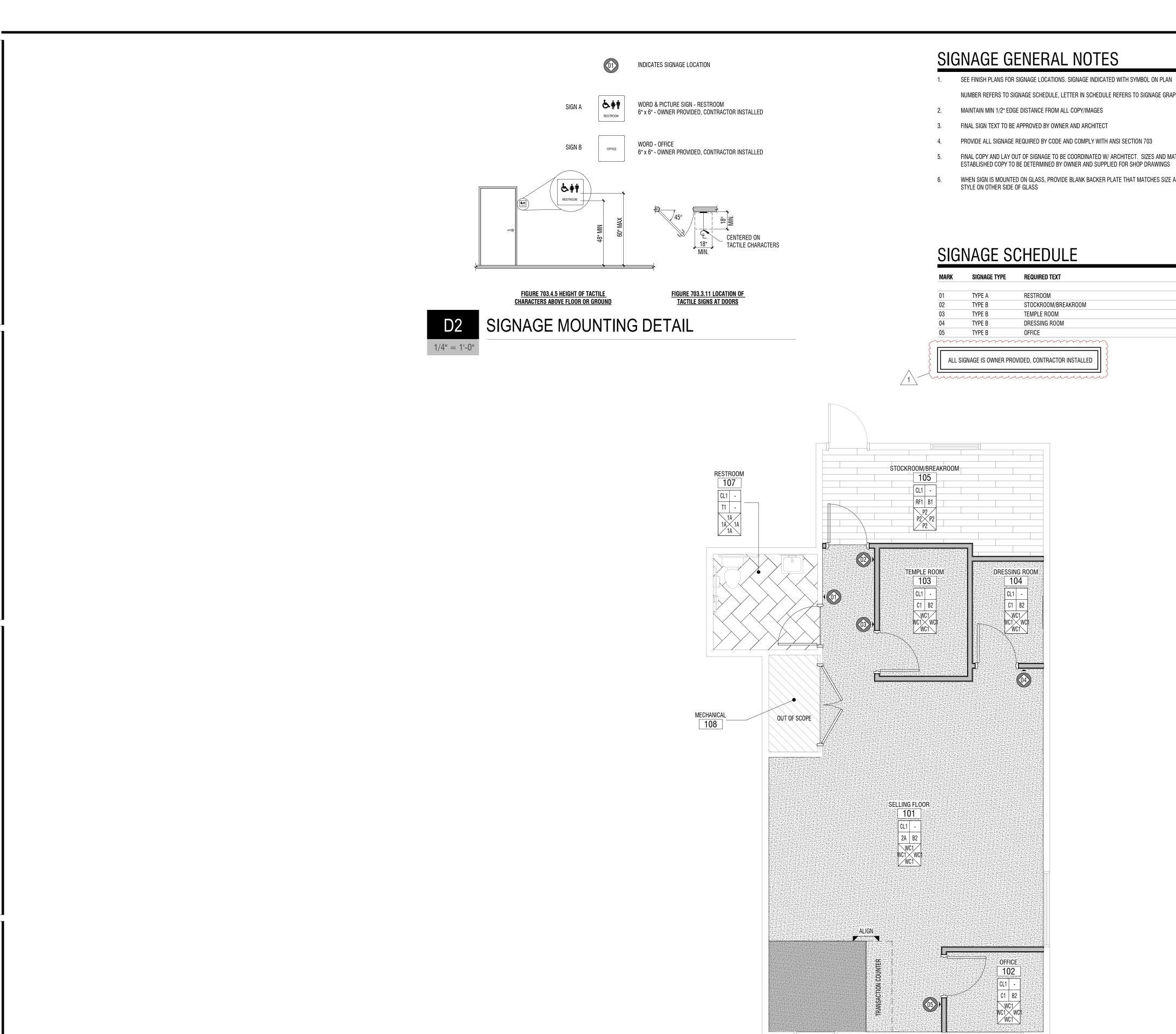
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<u>ш</u> –

. E

SALT LAKE CITY, UTAH

A-101



- 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
 - FINAL COPY AND LAY OUT OF SIGNAGE TO BE COORDINATED W/ ARCHITECT. SIZES AND MATERIALS,
 - WHEN SIGN IS MOUNTED ON GLASS, PROVIDE BLANK BACKER PLATE THAT MATCHES SIZE AND

| SIGNAGE TYPE | REQUIRED TEXT |
|--------------|----------------------|
| TYPE A | RESTROOM |
| TYPE B | STOCKROOM/BREAKROOM |
| TYPE B | TEMPLE ROOM |
| TYPE B | DRESSING ROOM |
| TYPE B | OFFICE |
| | TYPE B TYPE B TYPE B |

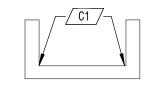
GENERAL NOTES

- 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 <u>DOES NOT</u> EXTEND UNDER MILLWORK OR CASEWORK, U.N.O.
- 12. INSTALL FLOOR TILE EXPANSION JOINTS AS PER TCNA.

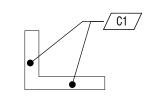
FINISH LEGEND

| CEILING | / MILLWORK | |
|---------|------------|-----------------|
| FL00R | ✓ BASE | |
| WALL | - WALL | ROOM FINISH TAG |
| WALL | — WALL | |

FINISH TAG - INDICATES SPECIFIC APPLIED FINISH



INDICATES FINISH IS APPLIED TO AREA BETWEEN ARROWS



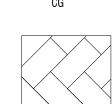
INDICATES FINISH IS APPLIED TO FACE OF SURFACE(S)

INDICATES A MANUAL ROLLER SHADE.

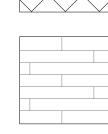


INDICATES SIGNAGE LOCATION

INDICATES CORNER GUARD



TILE FLOOR - T1



LVT FLOOR - RF1



CARPET - C1



WALK-OFF CARPET - C2

FINISH PLAN

(435) 752-7031

(801) 539-8221

STORE

CENTER E, SUITE 1

RIBUTION N MONTANA AVE

SALT LAKE CITY, UTAH

FINISH PLAN

DOOR SCHEDULE

| | LEAF SIZIN | G (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) |
| | | | | | | | | | | | | | | |
| 102 | 3'-0" | 7'-0" | 1 3/4" | WD01 | SC | | - | - | HMA | C4/A-502 | B4/A-502 | A4/A-502 | 26 / 1 | |
| 103 | 3'-0" | 7'-0" | 1 3/4" | WD01 | SC | | - | - | НМА | C4/A-502 | B4/A-502 | A4/A-502 | { 32 } | |
| 104 | 3'-0" | 7'-0" | 1 3/4" | WD01 | SC | | - | - | НМА | C4/A-502 | B4/A-502 | A4/A-502 | 32 | |
| 105 | 3'-0" | 7'-0" | 1 3/4" | WD01 | SC | | • | | HMA | C4/A-502 | B4/A-502 | A4/A-502 | 26 | |
| 107 | 3'-0" | 7'-0" | 1 3/4" | WD01 | SC | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~ | HMA | C4/A-502 | B4/A-502 | A4/A-502 | 32 | |
| 108 | 6'-0" | 7'-0" | 1 3/4" | WD02 | SC | | O O O O-O-O-O | , | HMA | C4/A-502 | B4/A-502 | A4/A-502 | 50F | |

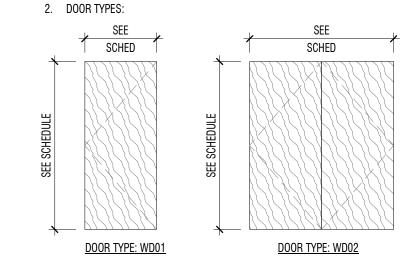
GENERAL NOTES

- 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



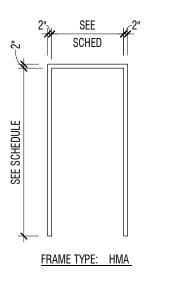
CONSTRUCTION: GL GLASS AL ALUMINUM HMI HOLLOW METAL, INSULATED HM HOLLOW METAL SC SOLID CORE

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

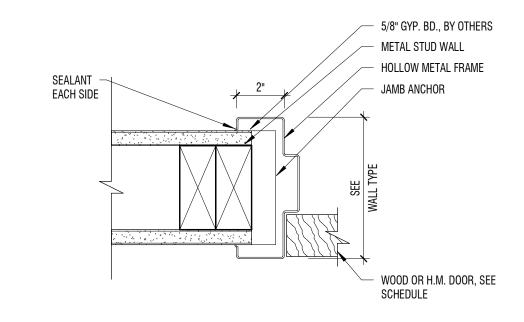
STUD HEADER

- SEALANT EACH SIDE

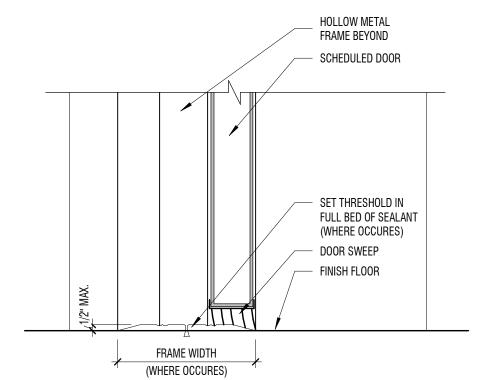
HOLLOW METAL

WOOD OR H.M. DOOR, SEE

DETAIL - HEAD



DETAIL - JAMB



12" MIN. 24" MIN. 17" - 18" - FLUSH CONTROLS ON OPEN SIDE ACCESSIBLE WATER CLOSET

DETAIL - THRESHOLD

SCHEDULE - DOOR &

A-501

LAV. GUARD ~

ACCESSIBLE SINK

KNEE CLEARANCE PER

ADA 3/D2_ADA RESTROOM FIXTURE DETAILS

LAVATORY/MIRROR

MIRROR (603.3)

AREA OF TOILET PAPER _ DISPENSER

- SOAP DISPENSER

PROTECTIVE SHIELD ON ALL EXPOSED PLUMBING HARDWARE (ALL SINKS - TYP.) 32" MAX

RECESSED ____

ACCESSIBLE WATER CLOSET

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DETAILS

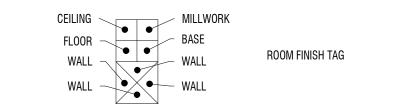
GENERAL NOTES

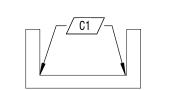
- 1. ROOM FINISH TAGS FOR EACH ROOM REPRESENT TYPICAL FINISHES. SPECIFIC WALLS IN SELECTED AREAS MAY HAVE MULTIPLE FINISHES WHICH WILL BE INDICATED IN INTERIOR ELEVATIONS.
- 2. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CASEWORK AND FINISH ASSEMBLIES
- 3. SEE INTERIOR ELEVATIONS FOR ADDITIONAL 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 <u>DOES NOT</u> EXTEND UNDER MILLWORK OR CASEWORK, U.N.O.
- 12. INSTALL FLOOR TILE EXPANSION JOINTS AS PER TCNA.

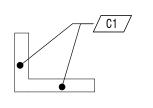
FINISH LEGEND





INDICATES FINISH IS APPLIED TO AREA BETWEEN ARROWS

FINISH TAG - INDICATES SPECIFIC APPLIED FINISH



INDICATES FINISH IS APPLIED TO FACE OF SURFACE(S)

RS

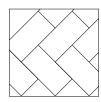
INDICATES A MANUAL ROLLER SHADE.



INDICATES SIGNAGE LOCATION

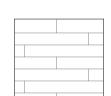
CG L

INDICATES CORNER GUARD



TILE FLOOR - T1

LVT FLOOR - RF1







WALK-OFF CARPET - C2

PROJECT #:

CHECKED BY:

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SALT LAKE CITY, UTAH

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224098

SCHEDULE - FINISH
A-601

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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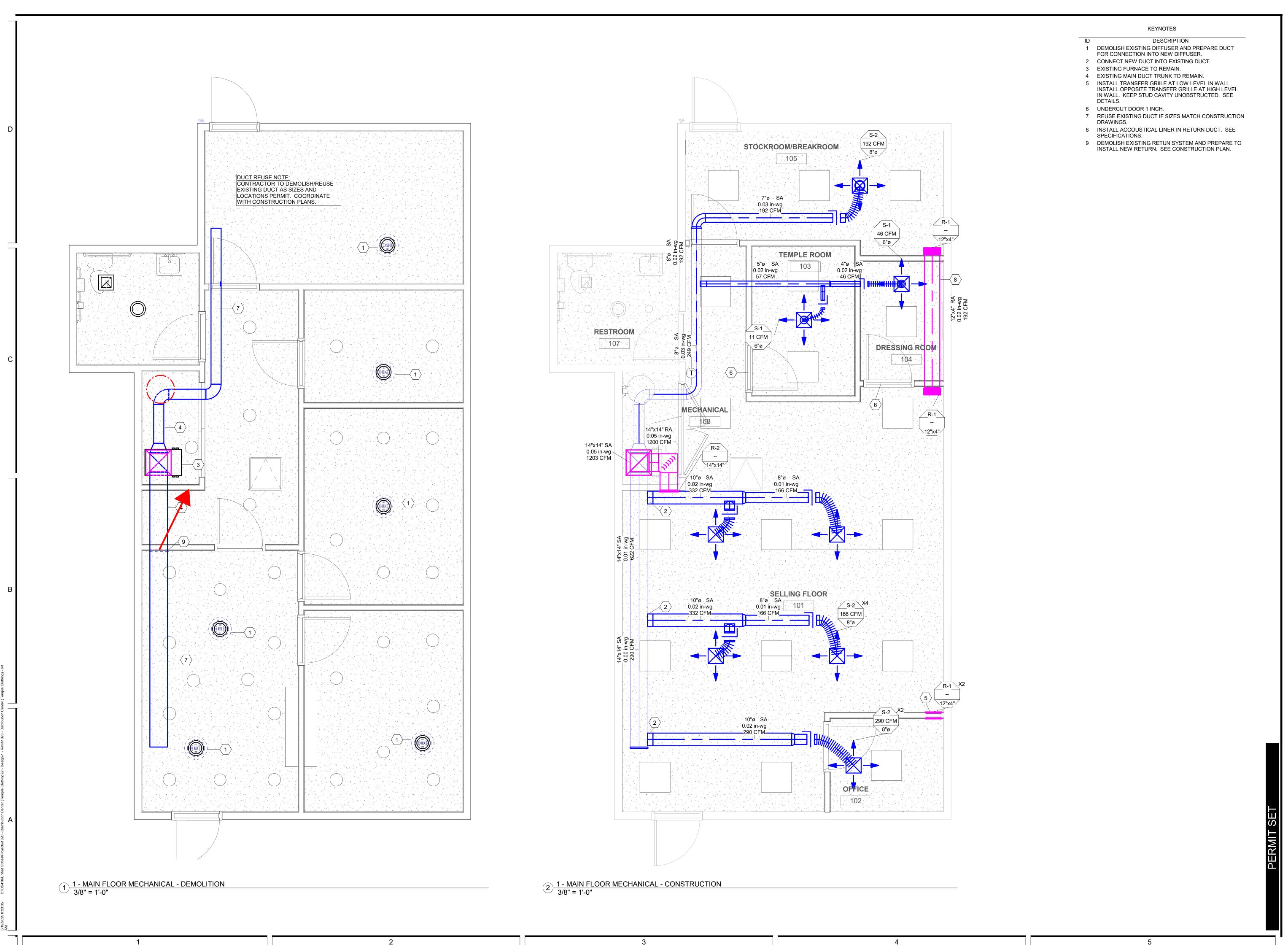
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PROJECT #: **DRAWN BY** ISSUED:

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.



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> 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

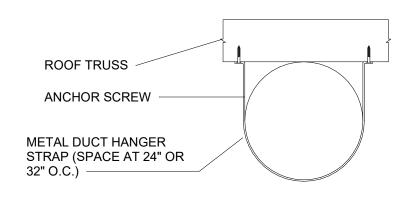
BRACE DUCTS AS PER SMACNA Seismic Restraint Manual Guidelines for

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

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MECHANICAL SCHEDULES

The contractor shall be responsible for installing a complete and functional system in accordance to the intent of the plans. 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. 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.

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 openings and 10ft from mechanical intakes.

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

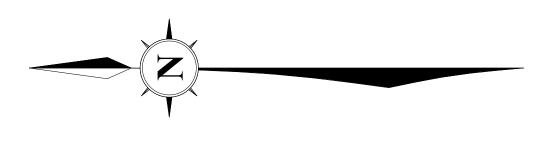
PRESSURE REGULATOR

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

NON-POTTABLE SHOP COLD WATER AIR LINE GR-SAN GREASE SANITARY LINE

STORM

→ PLUMBING LEGEND



AREA OF SCOPE

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

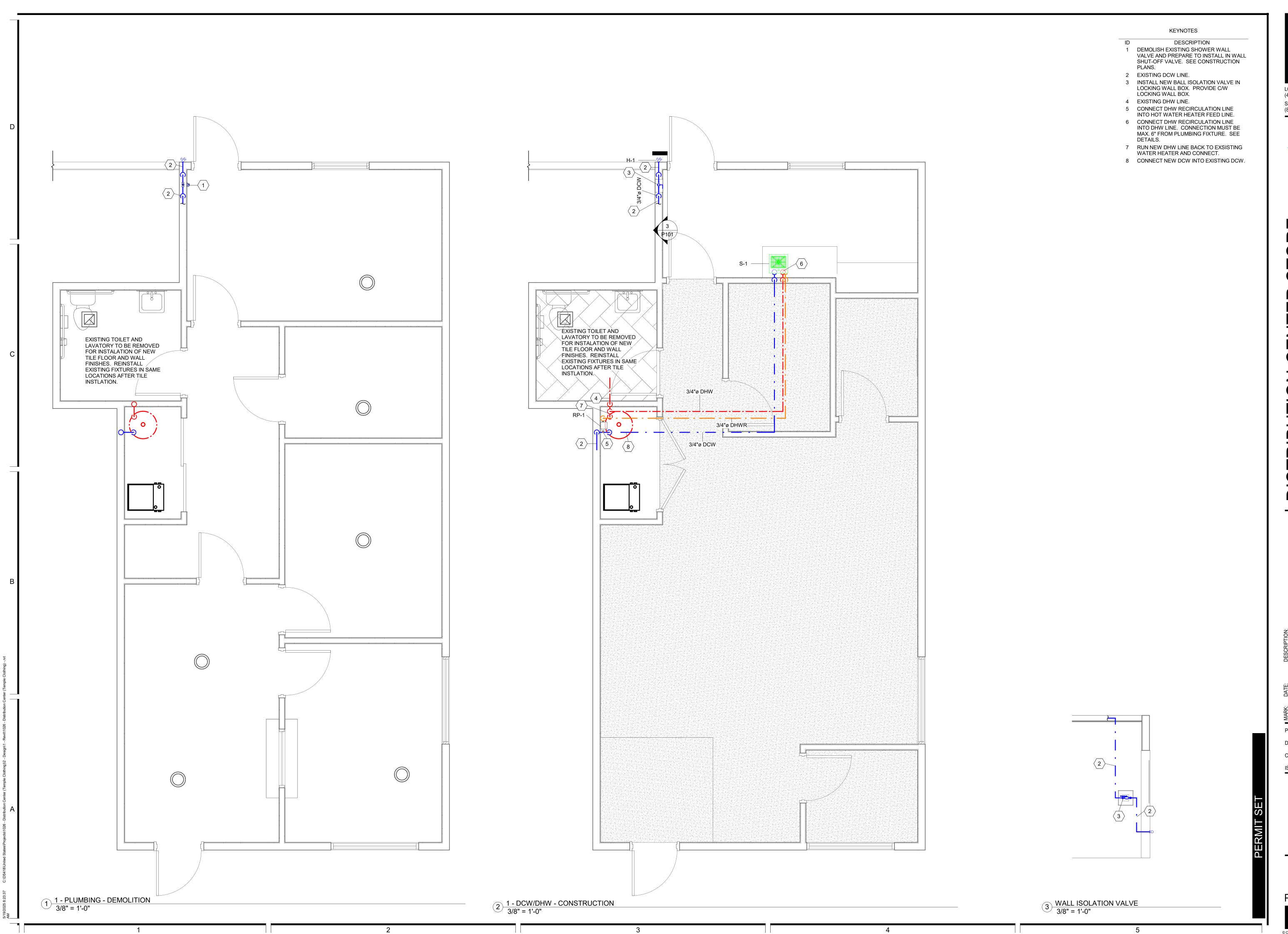
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HENDRIK F BRENKMAN

PROJECT #: DRAWN BY: CHECKED BY ISSUED:

4/22/25

PLUMBING OVERVIEW

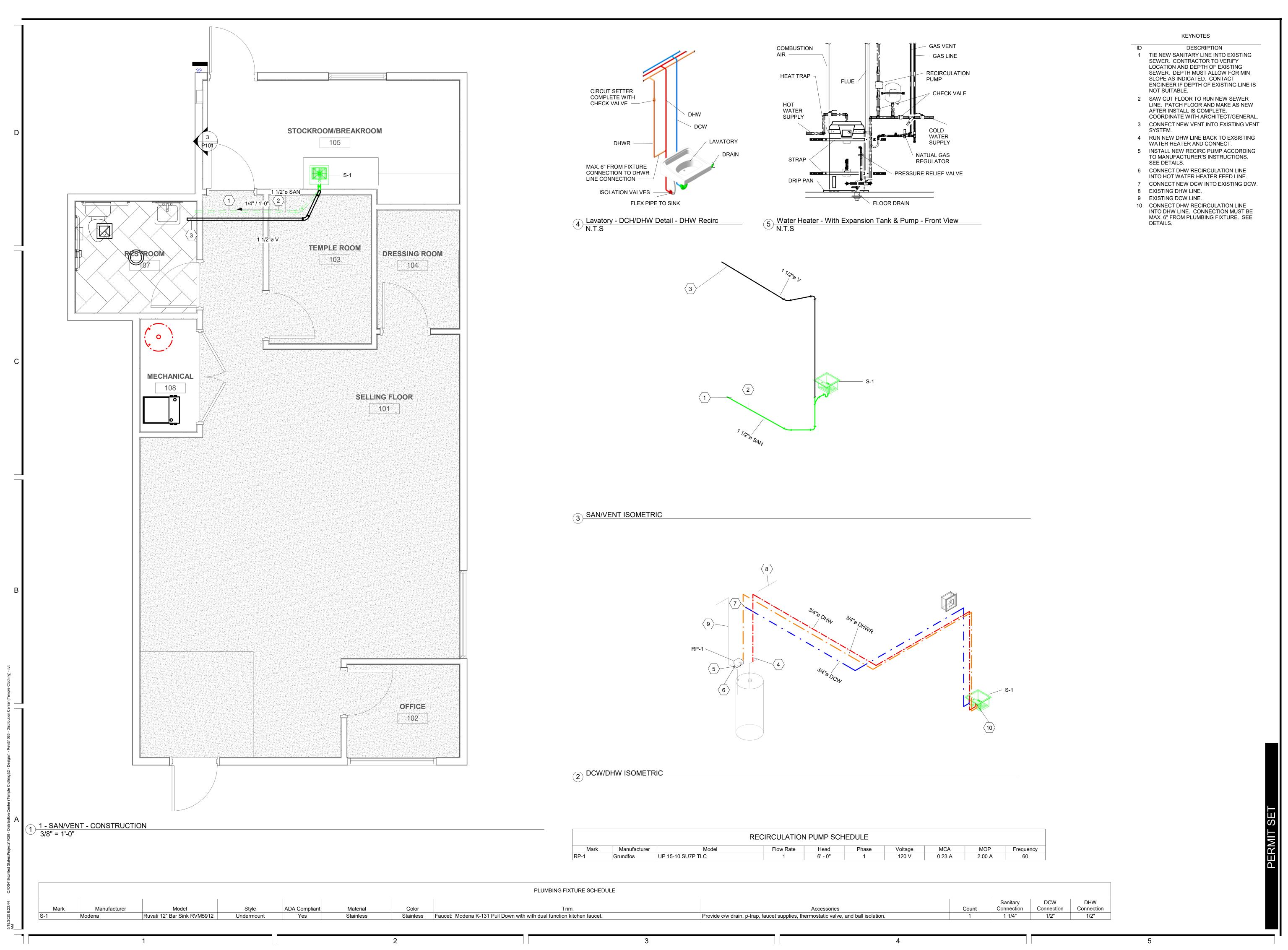


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PLUMBING PLAN P101



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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

ACCOMPANYING DRAWINGS AND SPECIFICATIONS. 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

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 310-15-

b. 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

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

FLANGE COMPLETE.

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>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

| CONDUCTOR | MAX CONE | OUCTOR LENG | TH AT LOAD I | NDICATED | | | | | |
|------------|---------------|-------------|--------------|----------|--|--|--|--|--|
| 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 | | | | | |
| | 277V 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 | | | | | |

| ELECTRICAL SY | /MBOL LEGEND | | | | | | |
|--------------------|--|--|--|--|--|--|--|
| SYMBOL | SYMBOL DESCRIPTION | | | | | | |
| Ф | DUPLEX RECEPTACLE, NEMA 5-20R | | | | | | |
| | GFCI RECEPTACLE | | | | | | |
| # | 4 PLEX RECEPTACLE | | | | | | |
| # | 4 PLEX GFCI RECEPTACLE | | | | | | |
| | "A" INDICATES RECEPTACLE IS INSTALLED | | | | | | |
| Ф ^A | ABOVE COUNTER. | | | | | | |
| Фс | "C" INDICATES RECEPTACLE IS INSTALLED ABOVE CEILING. | | | | | | |
| ₩P | GFCI RECEPTACLE WITH WEATHER PROOF WHILE IN USE COVER. | | | | | | |
| Φ | SPECIAL RECEPTACLE TO MATCH EQUIPMENT PLUG. | | | | | | |
| ① | JUNCTION BOX | | | | | | |
| Y | DATA OUTLET | | | | | | |
| ∇ | TELEPHONE OUTLET | | | | | | |
| $oldsymbol{ abla}$ | TA TELEPHONE OUTLET | | | | | | |
| J | EQUIPMENT CONNECTION WITH DISCONNECT | | | | | | |
| | EQUIPMENT CONNECTION WITH FUSED DISCONNECT | | | | | | |
| ⊠¹ | EQUIPMENT CONNECTION WITH NO DISCONNECT | | | | | | |
| \$ _{TH} | EQUIPMENT CONNECTION W/THERMAL SWITCH | | | | | | |
| P-1 | EQUIPMENT INDICATOR, SEE EQUIPMENT SCHEDULE. | | | | | | |
| \$ | SINGLE POLE SWITCH | | | | | | |
| I | LOW VOLTAGE SWITCH | | | | | | |
| Ϋ́ | WALL OCCUPANCY SENSOR | | | | | | |
| PC _X | LIGHTING CONTROL SYSTEM PHOTO CELL. X INDICATES ZONE | | | | | | |
| OS _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 | | | | | | |
| € | EXIT SIGN | | | | | | |
| | EMERGENCY LIGHT | | | | | | |
| [LT-01] | LIGHT FIXTURE TYPE INDICATOR. SEE FIXTURE SCHEDULE. | | | | | | |
|)¤ | FIRE ALARM HORN STROBE | | | | | | |
| B | FIRE ALARM BELL | | | | | | |
| | | | | | | | |
| | FIRE ALARM SMOKE DETECTOR | | | | | | |
| | FIRE ALARM CO DETECTOR TAMPER SWITCH | | | | | | |
| <u>⊘-₹</u> | | | | | | | |
| ○ ← FACE | FLOW SWITCH | | | | | | |
| FACP | FIRE ALARM CONTROL PANEL | | | | | | |
| *6 | "CAT 6" DROPS. " * " NUMBER OF DROPS AND LOCATIONS | | | | | | |

SYMBOL LEGEND

Sheet Number

ン N.T.S.

E101

E201

E301

E401

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 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

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.

Sheet Name

ELECTRICAL COVER SHEET

ELECTRICAL CONSTRUCTION

ELECTRICAL LIGHTING

ELECTRICAL DETAILS

ELECTRICAL SCHEDULES

SHEET LIST - ELECTRICAL Current Revision Current Revision Description Δ

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ELECTRICAL COVER

KEYNOTES

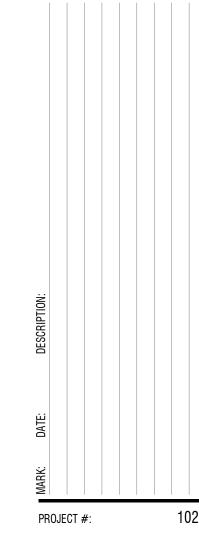
- 1 DISCONNECT ALL LIGHTS, SWITCHES, RECEPTACLES AND ANY OTHER ELECTRICAL EQUIPMENT C/W WIRING. COORDINATE WITH GC TO REMOVE AND DISPOSE OF ALL DISCONNECTED ELECTRICAL EQUIPMENT.
- 2 DIMMABLE LOW VOLTAGE OVERIDE SWITCH FOR OCCUPANCY SENSOR. 3 BUTTON 2 ZONE WITH ON/OFF AND WAVELINX WIRED DIMMING SWITCHPACK.
- 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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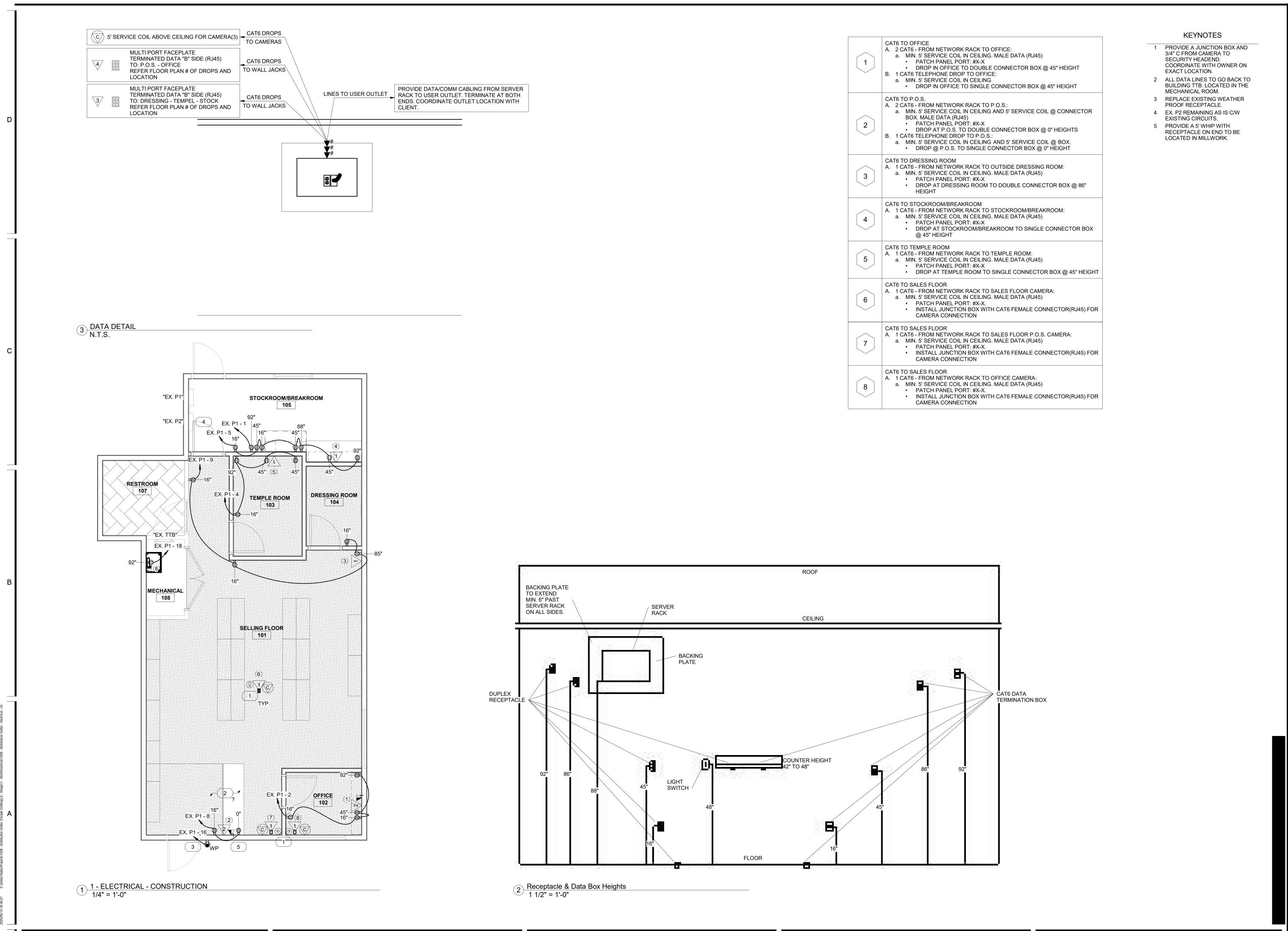
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ELECTRICAL LIGHTING E101





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ELECTRICAL CONSTRUCTION E201

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ELECTRICAL

E301

Branch Panel: EX. P2

| LIGHT FIXTURE SCHEDULE | | | | | | | | | | | | |
|------------------------|--|----------------|-----------------------|-----------------|---------|-------|------------------|--|---------------|--------------------------------|--|--|
| ID | DESCRIPTION | MANUFACTURER | CATALOG NUMBER | LAMP / COLOR | VOLTAGE | WATTS | MOUNTING | NOTES | Luminous Flux | Initial Color 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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U 418

POWELL

ELECTRICAL SCHEDULES E401

Circuit Description

Panel Totals

Total Conn. Load: 21 kW

Total Conn.: 59 A

6

8

22

24