

THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN, REPRODUCTION, COPYING, IMITATION, COMMERCIAL EXPLOITATION, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THESE DRAWINGS IN SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.

# TAVERNACLE EXPANSION

207 BROADWAY  
SLC, UT 84111

## KITCHEN

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Ph. 801.359.3158

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## OWNER

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## ARCHITECT

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SLC, UT 84124  
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## NOTICE TO ALL

IT IS THE RESPONSIBILITY OF EACH AND EVERY CONTRACTOR, SUBCONTRACTOR, AND/OR TRADE TO VERIFY ALL ASPECTS OF THESE DRAWINGS AND TO MAKE ANY AND ALL CORRECTIONS, ALTERATIONS, AND/OR CHANGES NECESSARY TO COMPLY WITH ALL CODE REQUIREMENTS, LOCAL REGULATIONS, AND PROPER DESIGN CRITERIA, UPON NOTIFICATION OF THE GENERAL CONTRACTOR & DESIGNER AND TO ASSURE THE FUNCTION AND/OR OPERATION OF THE SAME, TO A REASONABLE STANDARD, AS REQUIRED BY LAW.

## PROJECT INFORMATION

PARCEL NO.: 16-06-179-016-0000  
ACRES: 0.32  
ZONING: D-1  
APPROVED USE: .  
OVERLAY: Groundwater Source Protection  
CONDITIONAL USE:N/A  
PROPERTY REQS.:.  
BUILDING REQS.: .

CODES: IRC 2015, IPC 2015, IMC 2015, NEC 2014, IECC 2015, ADA 2010, ICC A117.1-2009

### BID ALTERNATIVES

-N/A

### DEFFERED SUBMITTALS

-SIGNAGE BY DESIGN-BUILD CONTRACTOR VIA SEPERATE PERMIT.

## PROJECT DECRPTION

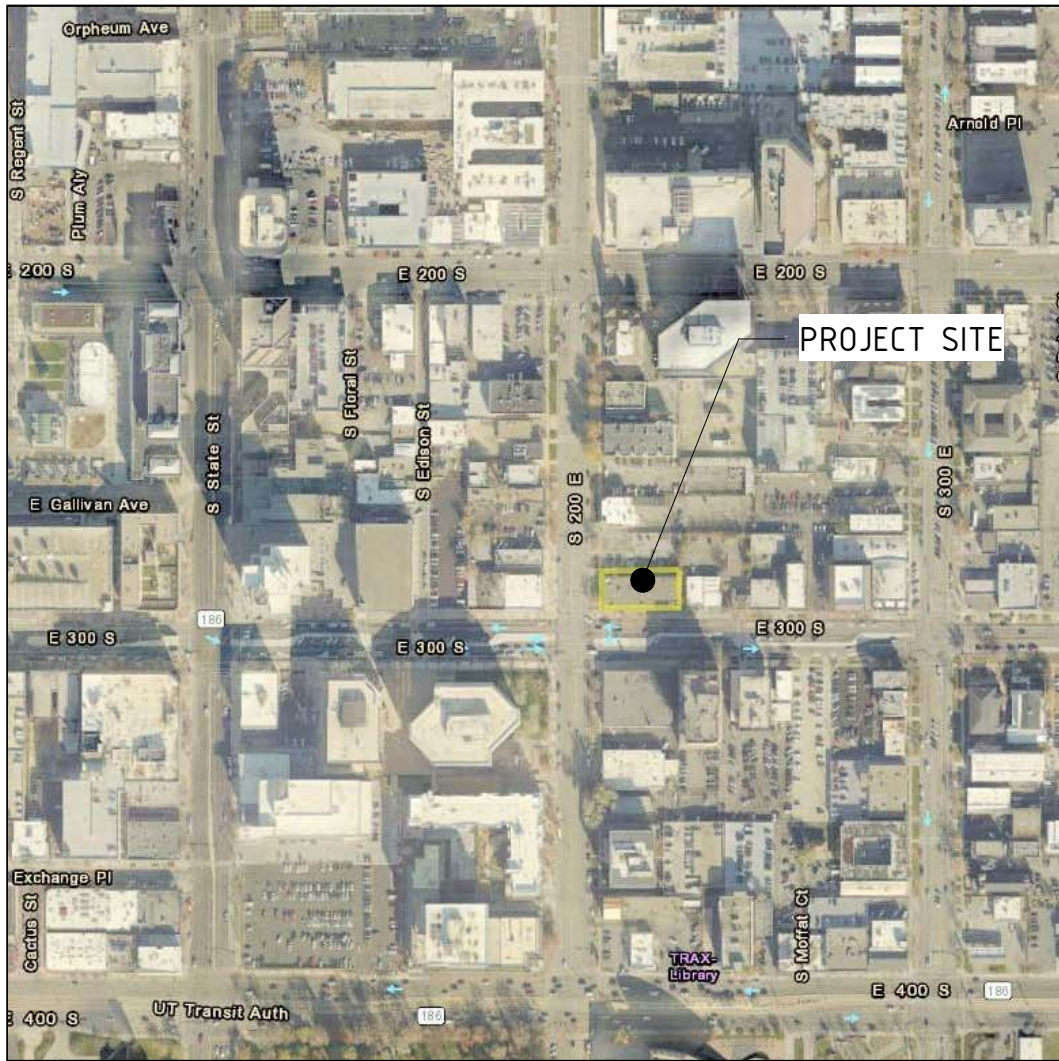
THE PROJECT CONSISTS OF AN INTERIOR TENANT IMPROVEMENT OF AN EXISTING BUILDING. THE TENANT SPACE WAS PREVIOUSLY A RENTAL SPACE BUT THIS PROJECT WILL CONSTRUCT A RESTAURANT. REMODEL TO TAKE PLACE IN BAY 4 NEXT TO THE TAVERNACLE, WHICH IS IN BAYS 1-3. NEW RESTAURANT TO HAVE NEW KITCHEN BATHROOM AND DINING AREA.



PERSPECTIVE VIEW

N.T.S.

## VICINITY MAPS



## DRAWING INDEX

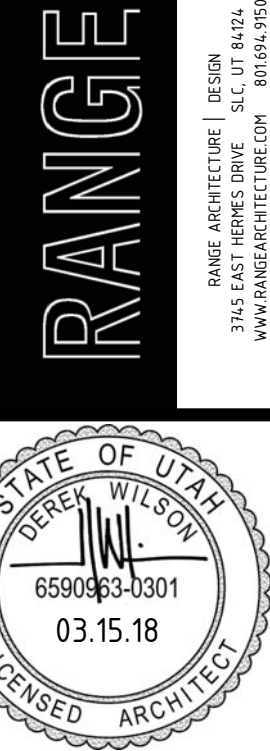
|       |                                   |       |                             |
|-------|-----------------------------------|-------|-----------------------------|
| GI001 | TITLE SHEET                       | PD1.1 | PLUMBING DEMO PLAN          |
| GI002 | GEN. NOTES LEGENDS ABBREVIATIONS  | PD1.3 | NATURAL GAS DEMO PLAN       |
| GI003 | ADA REQUIREMENTS                  |       |                             |
| GI004 | ADA REQUIREMENTS                  | E100  | ELECTRICAL NOTES / SYMBOLS  |
| GI005 | CODE ANALYSIS                     | E201  | MAIN LEVEL ELECTRICAL PLANS |
|       |                                   | E301  | ELECTRICAL SECTIONS         |
| S 0.1 | STRUCTURAL GEN. NOTES             | E401  | ONE LINE DIAGRAM & RISERS   |
| S 1.1 | FRAMING PLANS                     | E501  | ELECTRICAL SCHEDULES        |
| S 2.1 | FRAMING DETAILS                   | E502  | ELECTRICAL SCHEDULES        |
|       |                                   | E601  | ELECTRICAL DETAILS          |
| AS101 | ARCHITECTURAL SITE PLAN           | K1    | KITCHEN EQUIPMENT PLAN      |
| AE101 | FLOOR PLANS & WALL TYPES          | K2    | KITCHEN EQUIPMENT PLAN      |
| AE102 | CEIL. PLAN, FIN. PLAN & ROOF PLAN | K3    | KITCHEN EQUIPMENT PLAN      |
| AE201 | DINING INT. ELEVS. & DET.         | K4    | KITCHEN EQUIPMENT PLAN      |
| AE202 | KITCH., BATH & HALL INT. ELEVS.   |       |                             |
| AE301 | ELEVATIONS, SECTION & DET.        |       |                             |
| AE302 | DETAILS, DOOR SCHED.              |       |                             |
| M0.1  | MECHANICAL SCHEDULES              |       |                             |
| M0.2  | CAPTIVEAIRE SCHEDULES             |       |                             |
| M0.3  | CAPTIVEAIRE SCHEDULES             |       |                             |
| M0.4  | CAPTIVEAIRE SCHEDULES             |       |                             |
| M0.5  | CAPTIVEAIRE SCHEDULES             |       |                             |
| M0.6  | CAPTIVEAIRE SCHEDULES             |       |                             |
| M0.7  | CAPTIVEAIRE SCHEDULES             |       |                             |
| M0.8  | CAPTIVEAIRE SCHEDULES             |       |                             |
| M1.1  | MECHANICAL FLOOR PLAN             |       |                             |
| M2.1  | MECHANICAL ELEVATION NORTH        |       |                             |
| M3.1  | MECHANICAL SECTIONS               |       |                             |
| M6.1  | MECHANICAL DETAILS                |       |                             |
| M9.1  | MECHANICAL ISO                    |       |                             |
| MD1.1 | MECHANICAL DEMO PLAN              |       |                             |
| P0.1  | PLUMBING SCHEDULES                |       |                             |
| P1.1  | SANITARY FLOOR PLAN               |       |                             |
| P2.1  | DOMESTIC FLOOR PLAN               |       |                             |
| P3.1  | NATURAL GAS FLOOR PLAN            |       |                             |
| P9.1  | PLUMBING ISOS                     |       |                             |

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| REVISIONS   |          |
| PERMIT SET  | 03.15.18 |
| CONFORM SET |          |
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| PLOT DATE   | 03.15.18 |
| PROJECT     | 1722     |
| DRAWN BY    | CKG      |
| CHECKED BY  | DW       |
| SHEET TITLE |          |

TITLE SHEET

GI001





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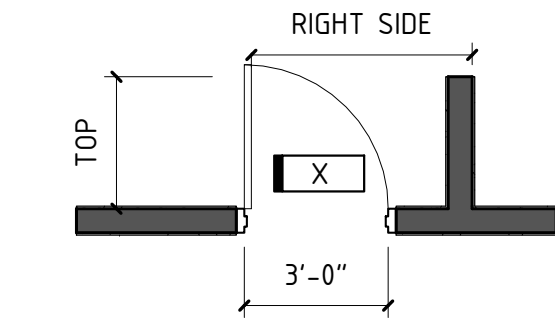
ABBREVIATIONS:

|        |                       |            |                       |        |                  |        |
|--------|-----------------------|------------|-----------------------|--------|------------------|--------|
| ABBREV | ABBREVIATION (S)      | DOOR       | DOOR OPENING          | HOWD   | HARDWOOD         | OF     |
| ABB    | ABBREVIATION (S)      | DBL        | DOUBLE                | H      | HIGH             | OFI    |
| A.F.F. | ABOVE FINISHED FLOOR  | DF         | DOUGLAS FIR           | HP     | HIGH POINT       | OFI    |
| AD     | ACCESS DOOR           | DN         | DOWN                  | HM     | HOLLOW METAL     |        |
| ACOUS  | ACOUSTICAL            | DS         | DOWNSPOUT             | HORIZ  | HORIZONTAL       |        |
| A/C    | AIR CONDITIONING      | DWG        | DRAWING               |        |                  | PR     |
| ALUM   | ALUMINUM              | DF         | DRINKING FOUNTAIN     | ID     | INSIDE DIAMETER  | PLAS   |
| AB     | ANCHOR BOLT           |            |                       | INSUL  | INSULATION       | PL     |
| APPR   | APPROVED              | EA         | EACH                  | INT    | INTERIOR         | PLWD   |
| AC     | ASPHALT CONCRETE      | EWC        | ELECTRIC WATER COOLER |        |                  | PC     |
|        |                       | ELEC       | ELECTRICAL            | JAN    | JANITOR          | PREP   |
| BM     | BEAM                  | ELEV OR EL | ELEVATION             |        |                  | PT     |
| BLK    | BLOCK                 | ELEV       | ELEVATOR              | LAV    | LAVATORY         | PTDF   |
| BD     | BOARD                 | EQ         | EQUAL                 | LEV    | LEVEL            |        |
| BOT    | BOTTOM                | EQUIP      | EQUIPMENT             | LTWT   | LIGHT WEIGHT     | PROJ   |
| B.O.B. | BOTTOM OF BEAM        | EXIST      | EXISTING              | LTG    | LIGHTING         |        |
| BLDG   | BUILDING              | EJ         | EXPANSION JOINT       |        |                  | QT     |
|        |                       | EXT        | EXTERIOR              | MAINT  | MAINTENANCE      |        |
| CLG    | CEILING               |            |                       | MFG    | MANUFACTURER     | REF    |
| CH     | CEILING HEIGHT        | FOC        | FACE OF CONCRETE      | MO     | MASONRY OPENING  | R OR R |
| CEM    | CEMENT                | FOS        | FACE OF STUD          |        | MATERIAL         | REDW   |
| C/C    | CENTER TO CENTER      | FOW        | FACE OF WALL          | MAX    | MAXIMUM          | REFL   |
| CER    | CERAMIC               | FT         | FEET                  | MECH   | MECHANICAL       | REINF  |
| CLR    | CLEAR                 | FRP        | FIBER REINFORCED      | MB     | MECHANICAL BOLT  | REQD   |
| CLOS   | CLOSET                |            | PLASTIC               | MET    | METAL            | RES    |
| COL    | COLUMN                | FIN        | FINISH                | MEZZ   | MEZZANINE        | RR     |
| COMPO  | COMPOSITION           | FF         | FINISH FLOOR          | MIN    | MINIMUM          | R      |
| CONC   | CONCRETE              | FO         | FINISHED OPENING      | MISC   | MISCELLANEOUS    | RD     |
| CMU    | CONCRETE MASONRY UNIT | FHC        | FIRE HOSE CABINET     | MULL   | MULLION          | RTU    |
| CONN   | CONNECTION            | FLR        | FLOOR                 |        |                  | RM     |
| CONT   | CONTINUOUS            | FD         | FLOOR DRAIN           | (N)    | NEW              | R.O.   |
| CORD   | COORDINATE            | FS         | FLOOR SINK            | NR     | NON-RATED        |        |
| CORR   | CORRIDOR              | FDN        | FOUNDATION            | N.I.C. | NOT IN CONTRACT  | SECT   |
| CSK    | COUNTERSINK           | FH         | FULL HEIGHT           | N.T.S. | NOT TO SCALE     | SHT    |
|        |                       | FS         | FULL SIZE             | NO.    | NUMBER           | SIM    |
|        |                       | FSD        | FULL SIZE DETAIL      |        |                  | SPECS  |
| DEL    | DELETE                |            |                       |        |                  |        |
| DET    | DETAIL                |            |                       | OFF    | OFFICE           | SQ     |
| DIAG   | DIAGONAL              | GALV OR GV | GALVANIZED            | OC     | ON CENTER        | SS     |
| DIA    | DIAMETER              | GA         | GAUGE                 | OPN'G  | OPENING          | STD    |
| DIM    | DIMENSION             | GC         | GENERAL CONTRACTOR    | OCC    | OPERATOR CONTROL | STA    |
| DIR    | DIRECTION             | GL         | GLASS                 |        | CENTER           | STL    |
| DR     | DOOR                  | GR         | GRADE                 | OPP    | OPPOSITE         | STGT   |
|        |                       | GYP. BD.   | GYPSPUM BOARD         | OH     | OPPOSITE HAND    | STRUCT |
|        |                       |            |                       | OD     | OUTSIDE DIAMETER | SIMUL  |

## MATERIALS LEGEND (TYPICAL PLAN VIEWS)

## NEW CONSTRUCTION

ALL NEW CONSTRUCTION IS SHOWN HATCHED & SHADED AS ILLUSTRATED BELOW  
ALL NEW CONSTRUCTION IS FULLY NOTED AS SHOWN BELOW.  
ALL WORK IS NEW UNLESS LABELED "EXISTING"



METAL OR WOOD STUD FRAMED WALL

- WALL TYPE DESIGNATES WIDTH OF WALL
- WIDTH OF WALL DIMENSIONED ONLY AT 1/4"=1' OR LARGER SCALE
- DOORS DIMENSIONED TO WIDTH OF NOMINAL OPENING
- WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE NOT DOUGH OPENING

METAL OR WOOD STUD FRAMED WALL W/ MASONRY  
OR STONE VENEER

- WIDTH OF WALL DIMENSIONED FROM FACE OF MASONRY.
- WIDTH OF MASONRY WALL DIMENSIONED FROM FACE OF STUD.
- DOORS DIMENSIONED TO WIDTH OF NOMINAL OPENING.

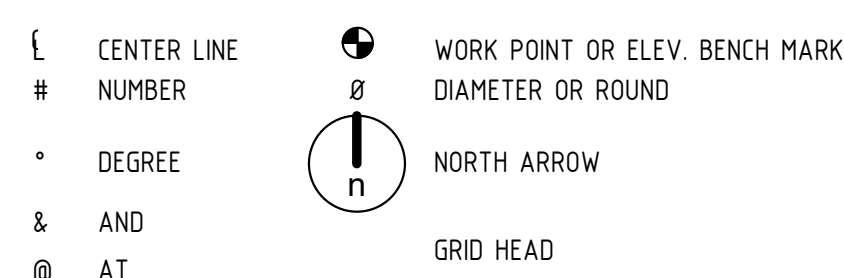
MASONRY WALL

- WIDTH OF WALL DIMENSIONED TO NOMINAL SIZE.
- DOORS DIMENSIONED TO CENTERLINE OF NOMINAL OPENING.
- WINDOWS DIMENSIONED TO NOMINAL FRAME SIZE - NOT MASONRY OPENING

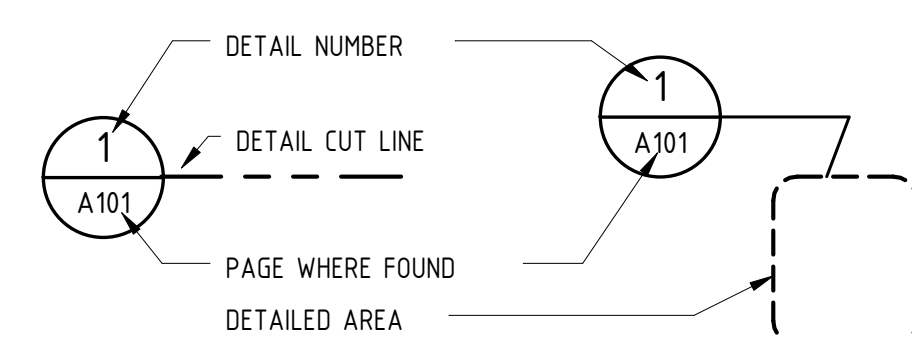
CONCRETE WALL

- ACTUAL WIDTH OF WALL DIMENSIONED  
DOORS DIMENSIONED TO CENTERLINE OF  
NOMINAL OPENING.  
WINDOWS DIMENSIONED TO NOMINAL FRAME  
SIZE - NOT ROUGH OPENING.

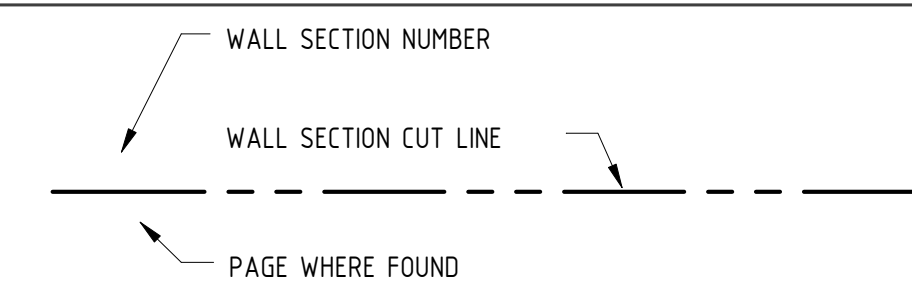
## SYMBOLS



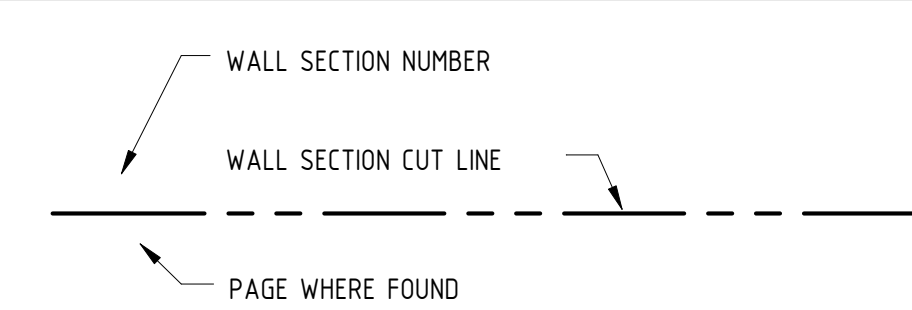
## SYMBOLS



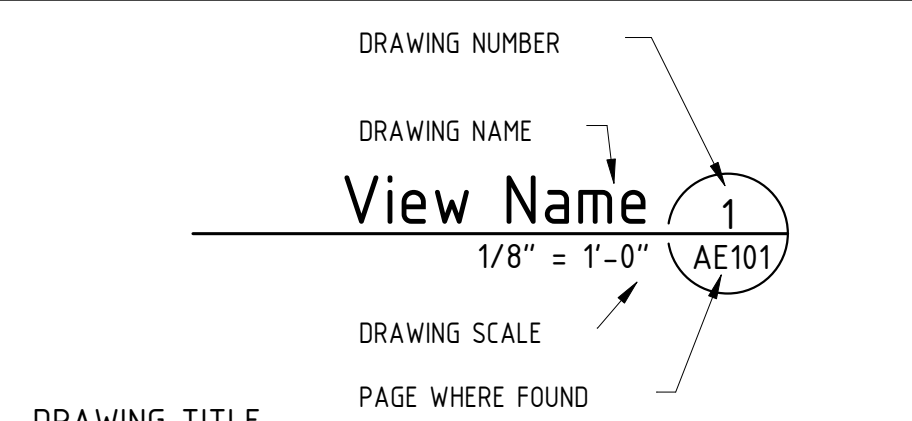
## DETAIL TAGS



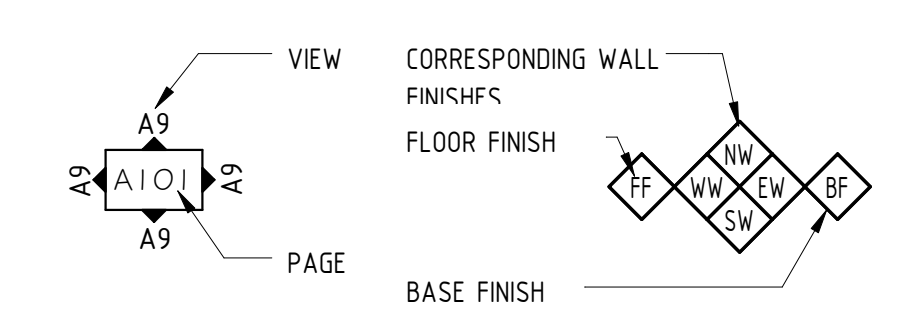
## WALL SECTION TAG



## BUILDING SECTION TAG



DRAWING TITLE



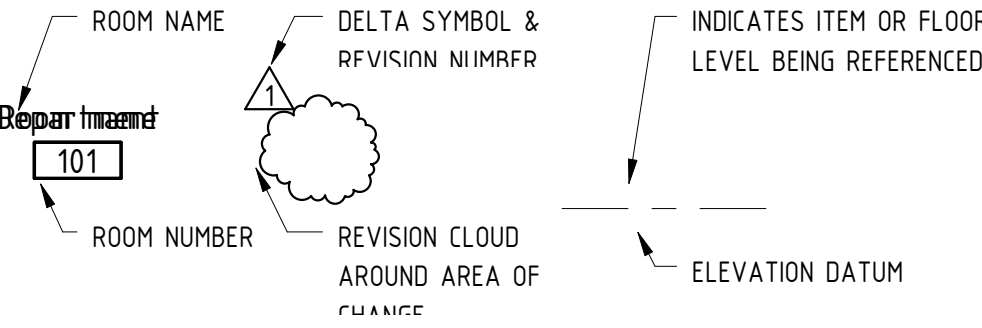
## ELEVATION TAGS

-  WINDOW/CURTAIN WALL DESIGNATION. SEE WINDOW SCHEDULE.  
 KEYNOTE.  
 GLAZING MODIFIER  
 GLAZING DESIGNATION

## 101 DOOR DE

-  WALL, FLOOR, CEILING, ROOF DESIGNATION. SEE APPROPRIATE TYPE SFFFTS
-  WALL, FLOOR, BASE, CEILING FINISH TAG. THIS SYMBOL WHEN ATTACHED TO A WALL SHALL INDICATE THIS FINISH FOR ENTIRE LENGTH OF WALL FROM ONE INTERSECTION TO THE NEXT AND NOT BE TERMINATED BY WINDOWS OR DOORS UNO.

### MISCELLANEOUS KEYED NOTE SYMBOLS

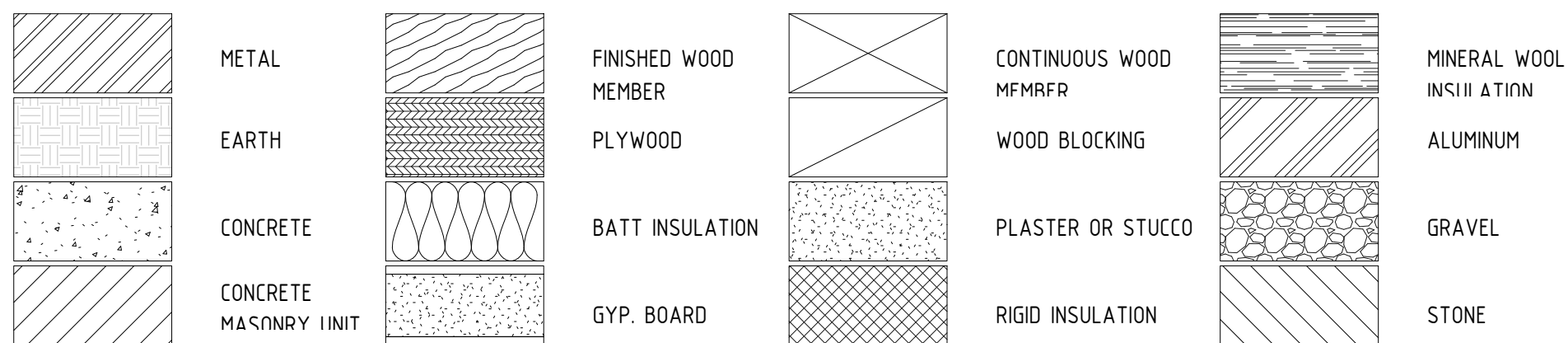


## OOM NAME TAG

## REVISION CLOUD &amp; TAG

DATUM TAG

## NEW MATERIALS LEGEND (TYPICAL SECTION VIEWS)



GENERAL NOTES:

- THE GENERAL CONTRACTOR / CONSTRUCTION MANAGER (CM/GC) SHALL HEREAFTER BE REFERRED TO AS "GENERAL CONTRACTOR" OR "GC". THE OWNER (DFCM) MAY HEREAFTER BE REFERRED TO AS "OWNER".
- 2 PLEASE NOTE:THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION IN THE DOCUMENTS. THE GENERAL CONTRACTOR SHALL UTILIZE THE CONSTRUCTION DRAWINGS AND WRITTEN SPECIFICATIONS FOR ALL REQUIRED INFORMATION TO PROVIDE COMPLETE CONSTRUCTION OF THIS PROJECT. ITEMS LISTED IN DRAWINGS MAY NOT BE INCLUDED IN SPECIFICATIONS. ITEMS LISTED IN SPECIFICATIONS MAY NOT BE INCLUDED IN DRAWINGS.
- 3 UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C) OR EXISTING, ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE PART OF THE CONTRACT AS DEFINED BY THE CONSTRUCTION DOCUMENTS. THE GC SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.
- 4 THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. THE GC SHALL ACCEPT PREMISES AS FOUND. OWNER WILL MAINTAIN THE EXISTING CONDITION OF THE SITE AND EXISTING STRUCTURES AT THE TIME OF BIDDING.
- 5 DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.
- 6 DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS; DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO CONTINUING WITH WORK.
- 7 ALL PLAN DIMENSIONS ARE FROM GRIDLINE OR FACE OF STUD OR FACE OF BLOCK UNLESS OTHERWISE INDICATED. SEE SECTION ON "DIMENSIONING" THIS SHEET.
- 8 THE CONTRACTOR SHALL REPORT TO THE ARCHITECT ALL CONDITIONS REQUIRING COORDINATION/ CHANGES WITH THE CONTRACT DOCUMENTS. COORDINATION / APPROVAL SHALL TAKE PLACE BEFORE THE WORK BEGINS. ALL CHANGES TO THE CONTRACT COST SHALL BE APPROVED THROUGH A CHANGE ORDER.
- 9 DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
- 10 THE ARCHITECT WILL REVIEW SHOP DRAWINGS AND SAMPLES FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. THE ARCHITECT'S REVIEW OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN WHICH THE ITEM FUNCTIONS. THE ARCHITECT WILL NOT REVIEW SHOP DRAWINGS UNTIL THE GC HAS REVIEWED AND STAMPED THE SHOP DRAWING/SUBMITTAL. THE GC IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS. THE ARCHITECT'S REVIEW OF THE SHOP DRAWINGS SHALL NOT OVERRIDE THE CONDITIONS DESCRIBED IN THE CONTRACT DOCUMENTS UNLESS SPECIFICALLY NOTED OTHERWISE BY THE ARCHITECT.
- 11 FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 12 FOR GRADING, TRENCHING ETC., CONTACT THE ARCHITECT FOR INSTRUCTIONS PRIOR TO THE CONTINUATION OF WORK SHOULD ANY UNUSUAL CONDITIONS BECOME APPARENT DURING GRADING OR FOUNDATION CONSTRUCTION. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE GENERAL CONTRACTOR BEFORE CONSTRUCTION.
- 13 ALL WORK, MATERIALS AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. THE GENERAL CONTRACTOR MUST COMPLY WITH THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES.
- 14 ALL PROJECT CONSTRUCTION SHALL CONFORM WITH ANSI A-117.1-1998, AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- 15 THE GENERAL CONTRACTOR SHALL NOTIFY ALL APPLICABLE LOCAL GOVERNING AUTHORITIES (UTAH STATE UNIVERSITY AND DFCM BUILDING OFFICIALS) AND UTILITIES PRIOR TO COVERING UP ANY WORK REQUIRING INSPECTION.
- 16 THE GENERAL CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS AND FIRE LANES IN WORKING ORDER.

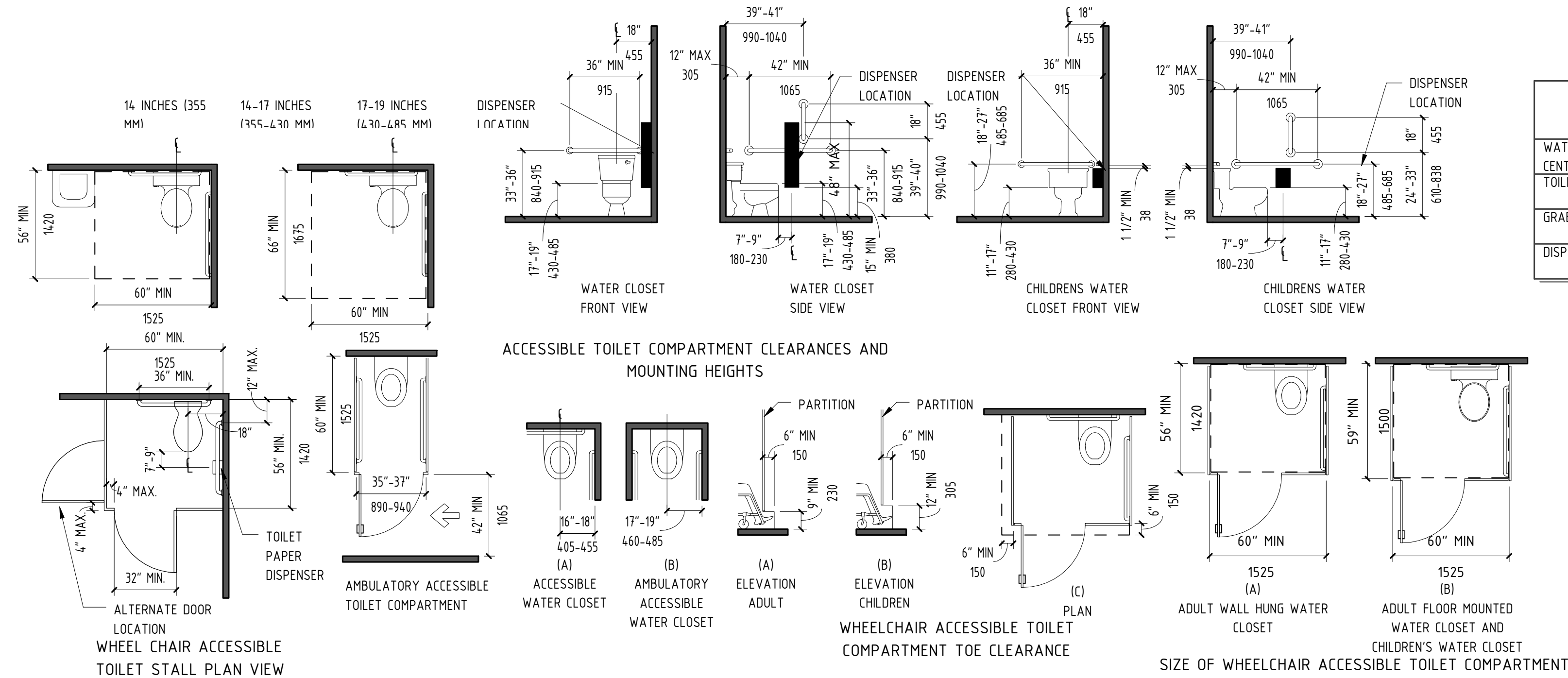
- A GENERAL BUILDING PERMIT IS NOT REQUIRED. ALL OTHER PERMITS OR CONNECTION FEES SHALL BE SECURED BY THE GENERAL CONTRACTOR AND REIMBURSED THROUGH THE OWNER.
- 18 THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE EXTINGUISHERS WHERE SHOWN ON PLAN.
- 19 MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISH SHALL CONFORM TO THE BUILDING CODE AND LOCAL GOVERNING BUILDING CODES/ORDINANCES. SEE CODE SUMMARY, SHEET G1002.
- 20 THE GENERAL CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR AND INTERIOR PEDESTRIAN TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO THE ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT.
- 21 THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES FOR DUST AND NOISE CONTROL, AND ALL REQUIRED ENVIRONMENTAL PROTECTION WHERE WORK JOINS EXISTING CONDITIONS.
- 22 ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION DAILY.
- 23 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE AND OR CALL BLUE STAKES TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND WHEN IDENTIFIED TO PROTECT THEM FROM DAMAGE. THE GENERAL CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF IDENTIFIED UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
- 24 APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE GENERAL CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS, ON THE PREMISES AT ALL TIMES. THESE ARE TO BE KEPT UNDER THE CARE OF THE JOB SUPERINTENDENT.
- 25 THE GENERAL CONTRACTOR IS TO PROVIDE BLOCKING AS REQUIRED FOR MOUNTING OF WALL MOUNTED SHELVES, CABINETS, HC GRAB BARS AND PARTITION BRACES AND ALL OTHER ITEMS IDENTIFIED ON THE EQUIPMENT OR ACCESSORY SCHEDULE. BLOCKING SHALL BE FIRE TREATED WHERE REQUIRED BY THE BUILDING CODE.
- 26 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RECEIVING, UNLOADING, UNCRATING, INSTALLATION AND HOOK-UP OF ALL OWNER FURNISHED ITEMS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 27 THE GENERAL CONTRACTOR IS TO ASSURE THAT NO REBAR OR REINFORCEMENT IS PRESENT PRIOR TO CORE DRILLING OR PLACING BOLTS OR ANY OTHER ITEM WHICH COULD DISTURB THE STRUCTURAL SLAB OR FOUNDATION WALLS.
- 28 PROVIDE GALVANIC PROTECTION BETWEEN DISSIMILAR MATERIALS WHERE REQUIRED.
- 29 PROVIDE METAL TRIM OR CASING AT ALL EDGES OF PLASTER AND DRYWALL SURFACES WHERE IT TERMINATES OR MEETS ANY OTHER MATERIAL, UNLESS NOTED OTHERWISE.
- 30 PROVIDE METAL CORNER TRIM AT ALL OUTSIDE CORNERS OF PLASTER AND DRYWALL SURFACES.
- 31 ALL PENETRATIONS THROUGH ANY SURFACE SHALL BE THOROUGHLY SEALED WITH APPROPRIATE SEALANT MATERIAL.
- 32 UNLESS OTHERWISE NOTED, ALL EXTERIOR AND INTERIOR METAL, TRIM, TRELLAGE, RAILINGS, MOLDINGS, FRAMES, CASTING ETC., SHALL BE PAINTED.
- 33 FOR PLUMBING, FIRE SPRINKLER AND ELECTRICAL SYSTEMS, PROVIDE APPROVED ASSEMBLIES WITH SELF CLOSING DEVICES FOR ANY PENETRATIONS IN RATED CONSTRUCTION.
- 34 THE GC SHALL VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MECHANICAL, FIRE SPRINKLER AND PLUMBING PLANS. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED WITH A FIRE RATING EQUAL TO THE WALL OR CEILING ASSEMBLY INTO WHICH THEY ARE TO BE INSTALLED. FINISH AND LOCATION SHALL BE APPROVED BY THE ARCHITECT.
- 35 THE GC SHALL VERIFY DIMENSIONS OF ALL EQUIPMENT PADS & BASES WITH EQUIPMENT MANUFACTURERS & SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS ON ROOF AND INTERIOR SHAFTS.

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| PROJECT     | 1722     |
| DRAWN BY    | CKG      |
| CHECKED BY  | DW       |
| SHEET TITLE |          |

GEN. NOTES  
LEGENDS  
ABBREVIATIONS  
**GI002**



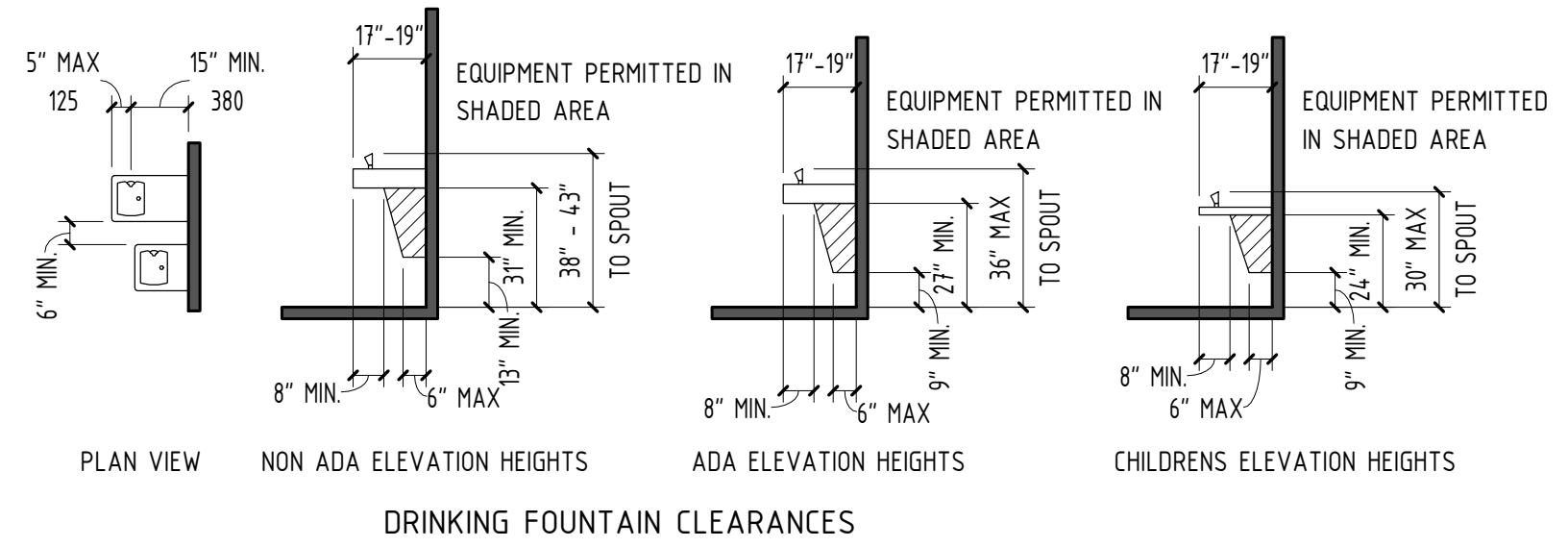
THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN REPRODUCTION, DUPLICATION, COPYING, IMITATION, COMMERCIAL EXPLOITATION, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THE DESIGN OR THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.



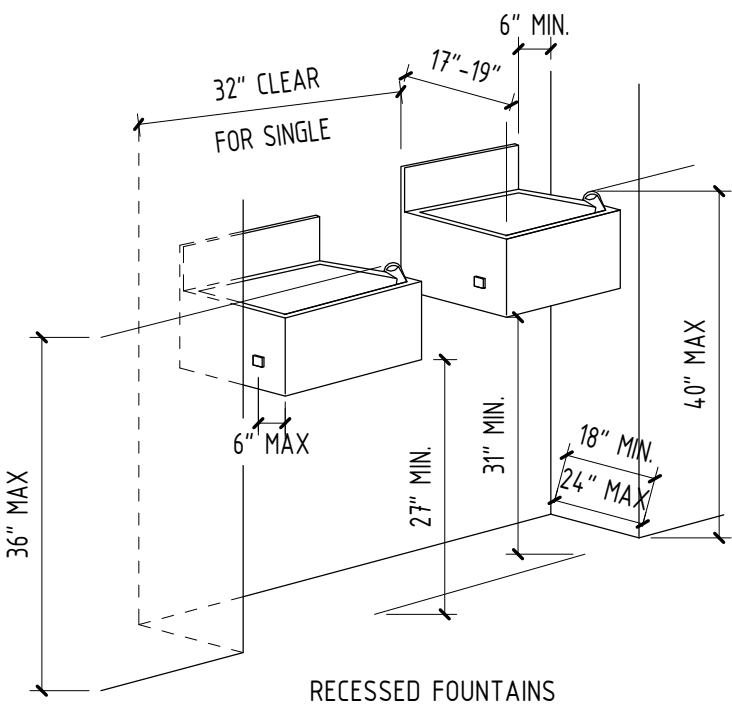
|                         | AGES 3 & 4                     | AGES 5 THRU 8             | AGES 9 THRU 12            |
|-------------------------|--------------------------------|---------------------------|---------------------------|
| WATER CLOSET CENTERLINE | 12 INCHES (305 MM)             | 12-15 INCHES (305-380 MM) | 15-18 INCHES (380-455 MM) |
| TOILET SEAT HEIGHT      | 11 TO 12 INCHES (280 - 305 MM) | 12-15 INCHES (305-380 MM) | 15-17 INCHES (380-430 MM) |
| GRAB BAR HEIGHT         | 18 - 20 INCHES (455-510 MM)    | 20-25 INCHES (510-635 MM) | 25-27 INCHES (635-685 MM) |
| DISPENSER HEIGHT        |                                |                           |                           |

## GENERAL NOTES:

- REFER TO DOOR HARDWARE SPECIFICATIONS FOR DOOR HARDWARE ADA REQUIREMENTS AND STANDARDS.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL DEVICES ADA MOUNTING HEIGHT REQUIREMENTS.
- REFER TO SITE PLAN FOR ACCESSIBLE ROUTE REQUIREMENTS AND DETAIL REFERENCES. (NOT APPLICABLE TO ALL PROJECTS.)
- UNLESS NOTED AS "MIN." OR "MAX." DIMENSIONS SHOWN ARE ABSOLUTE. DIMENSIONS SHOWN HERE SHALL GOVERN THE INSTALLATION OF ALL ACCESSIBLE FIXTURES AND ACCESSORIES, UNLESS MORE SPECIFIC DIMENSIONS ARE SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS THAT ARE WITHIN THE PERMISSIBLE LIMITS SHOWN HERE.
- MOUNTING HEIGHTS OF RESTROOM FIXTURES AND ACCESSORIES. PROVIDE BACKING AT ALL WALL MOUNTED FIXTURES AND EQUIPMENT.



- RECESSED FOUNTAINS:**  
WITHIN ALCOVES MINIMUM 63" WIDE, MINIMUM 18" DEEP WHEN DOUBLE DRINKING FOUNTAINS ARE REQUIRED AND 32" MIN. CLR. WHEN A SINGLE FOUNTAIN IS PERMITTED.  
A. CONTRACTOR SHALL COORDINATE WITH SIZE OF WATER FOUNTAIN TO BE USED AND SIZE ALCOVE ACCORDINGLY COMPLYING WITH REQUIREMENTS AND RECOMMENDATIONS AND COORDINATING WITH THE ARCHITECT.
- PROJECTED FOUNTAINS:**  
WARNING FOR THE VISION IMPAIRED AT A PROJECTED DRINKING FOUNTAIN CAN BE PROVIDED BY EITHER OF THE FOLLOWING MEANS:  
A. THE SURFACE OF THE FLOOR OR GROUND AT THE DRINKING FOUNTAIN CAN BE OF CONTRASTING COLOR WITH A TEXTURE THAT CONTRASTS IN RESILIENCY WITH THE ADJACENT FINISHED FLOOR MATERIAL, SO THAT IT CAN BE SENSED BY A CANE, WITH THE TEXTURE EXTENDING FROM THE WALL TO ONE FOOT BEYOND THE FRONT EDGE OF THE DRINKING FOUNTAIN AND ONE FOOT BEYOND EACH SIDE OF THE FOUNTAIN, OR INSTALL WING WALLS ON EACH SIDE OF THE DRINKING FOUNTAIN TO PROJECT OUT FROM THE MAIN WALL AT LEAST AS FAR AS THE DRINKING FOUNTAIN AND TO WITHIN 6" OF THE PATH OF TRAVEL FLOOR FINISH.  
B. THERE MUST BE 32" CLEAR BETWEEN THE WING WALLS.

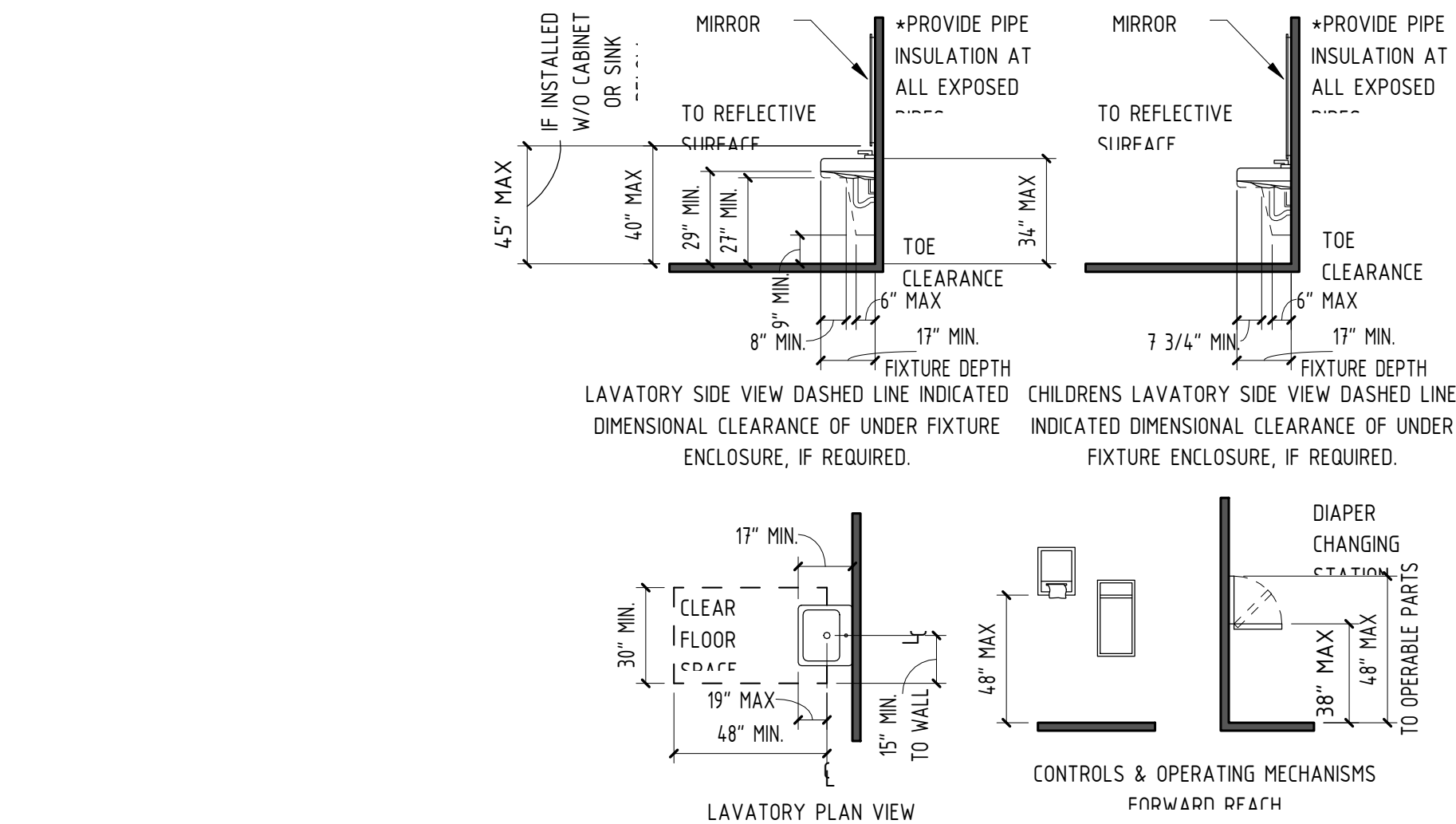


**NOTE:** ILLUSTRATIONS SHOWN HERE ARE FOR DIMENSIONAL ACCESSIBILITY PURPOSES ONLY. A SECOND DRINKING FOUNTAIN SHOULD BE PROVIDED AT A MOUNTING HEIGHT SUITABLE TO PERSONS WITH LIMITED PHYSICAL BENDING ABILITY, ADJACENT TO THE ACCESSIBLE FOUNTAIN, MAINTAINING MINIMUM CLEARANCES NOTED AND AS REQUIRED. PROVIDE TEXTURED AREA OF CONTRASTING COLOR TO IDENTIFY WATER FOUNTAIN LOCATION AS NOTED. WHEN FOUNTAIN IS AT AN INTERIOR LOCATION, THE TEXTURED AREA SHALL ALSO BE OF DIFFERENT RESILIENCY THAN THAT OF THE ADJACENT FLOOR SURFACE FINISH. SEE TYPICAL ACCESSIBILITY NOTES SHEET FOR ADDITIONAL REQUIREMENTS.

## LAVATORY & ACCESSORY CLEARANCES & HEIGHT REQUIREMENTS

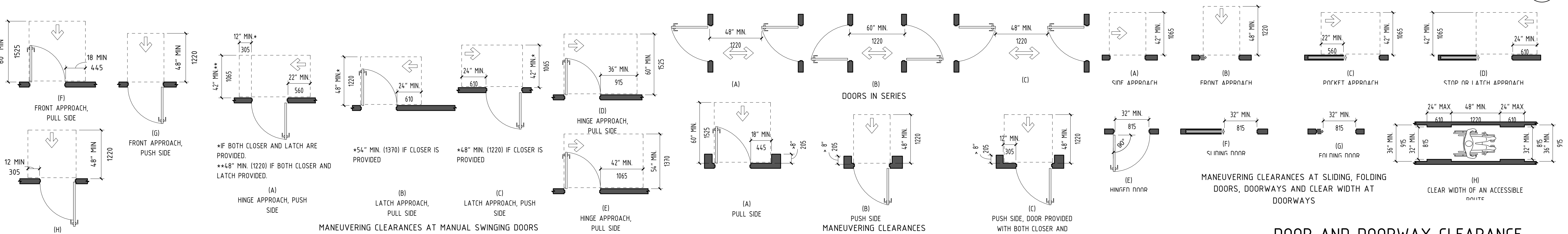
SCALE: 1/4" = 1'-0"

C1  
G1003



## ELECTRIC WATER COOLER REQUIREMENTS

B5  
G1003



## DOOR AND DOORWAY CLEARANCE

## REQUIREMENTS

A5  
G1003

RANGE



TAVERNACLE EXPANSION

207 BROADWAY

SLC, UT 84111

|             |          |
|-------------|----------|
| REVISIONS   |          |
| PERMIT SET  | 03.15.18 |
| CONFORM SET |          |
|             |          |
|             |          |
| PLOT DATE   | 03.15.18 |
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| DRAWN BY    | CKG      |
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| SHEET TITLE |          |

ADA  
REQUIREMENTS

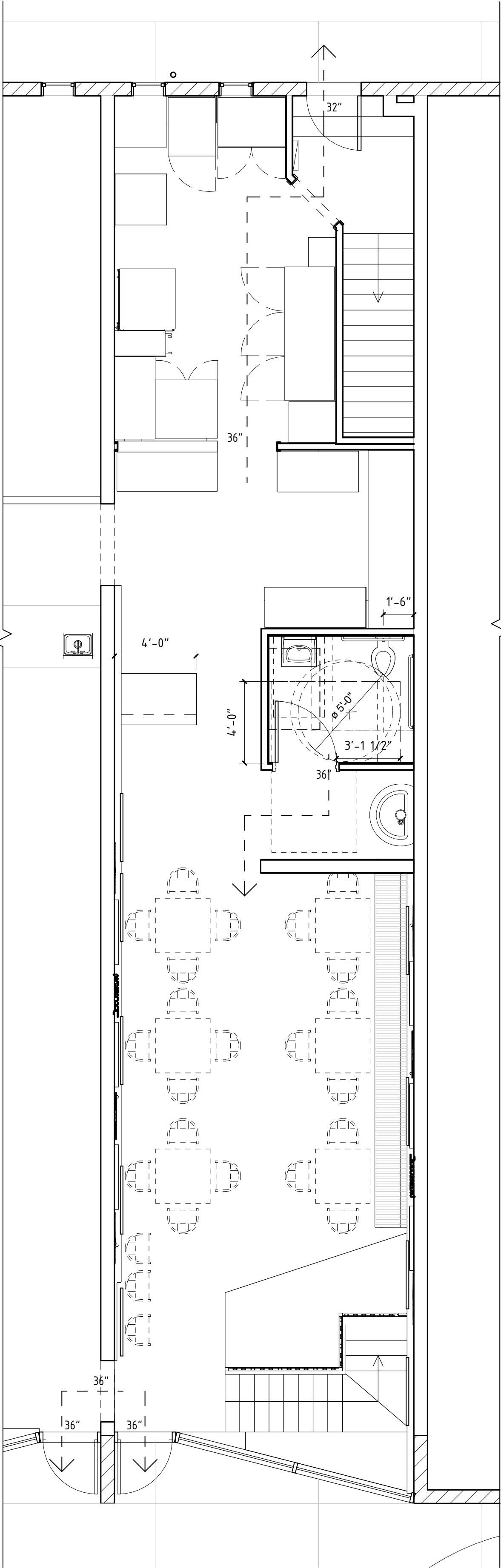
G1003







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MAIN FLOOR - CODE PLAN

SCALE: 1/4" = 1'-0"

01

GI005

## AREA CALCULATIONS

RESTROOM BLDG AREA

256 SF

## CODE ANALYSIS

### 2015 International Building code

#### Other Applicable Codes:

- 2015 International Building Code
- 2015 International Mechanical Code
- 2015 International Fuel Gas Code
- 2015 International Plumbing Code
- 2015 International Energy Conservation Code
- 2014 National Electrical Code
- 2010 ADA Standards for Accessible Design

#### Occupancy Classification - IBC Chapter 3

- Group B

#### Type of Construction - IBC Chapter 6

- Type VB (unsprinklered)

#### Allowable Building Height and Floor Area - IBC Chapter 5, table 503

Occupancy Classification Group U-VB (unsprinklered)

- Maximum height = 40 feet
- Actual = 18 feet 6 inches
- Maximum number of stories = 1
- Actual = 1 stories above grade plane

#### Allowable Building Area - IBC Chapter 5, table 506.2

Occupancy Classification Group U

- Table Area: 256 sq. ft.
- TOTAL ALLOWABLE BUILDING AREA: Group U-VB = 256 SQ. FT. PER STORY
- Restroom Bldg. = 256 sq. ft.
- Total = 256 sq. ft.

#### Fire Resistive Requirements - IBC Chapter 6, table 601

- Structural Frame 0 hour rating
- Bearing Walls 0 hour rating
  - Exterior 0 hour rating
  - Interior 0 hour rating
- Exterior Nonbearing Walls 0 hour rating
- Interior Nonbearing Walls 0 hour rating
- Floor (including supporting beam and joist) 0 hour rating
- Roof (including supporting beam and joist) 0 hour rating
- Occupancy Separation See section 406.3.4 of the 2015 IBC

#### Occupancy (use) Load Factors - IBC Chapter 10, table 1004.1.2

|     |         |                |       |   |
|-----|---------|----------------|-------|---|
| 101 | DINING  | 521 SF         | 68/50 | 2 |
| 102 | RR      | 68 SF          | 68/50 | 2 |
| 102 | RR      | 51 SF          | 99/50 | 2 |
| 103 | STORAGE | 99 SF          |       |   |
| 103 | PREP    | 459 SF         |       |   |
| 104 | KITCHEN | Redundant Room |       |   |

#### Egress Width per Person Served - IBC Chapter 10, section 1005.3.1 and 1005.3.2

- Stairways 1 Room 3 inches/occupant
- Other = .2 inches/occupant
- Table 1020.2, Minimum corridor width is 44 inches (72 inches if the occupancy is greater than 100.)
- Section 1008.1.1, Minimum door width is 32 inches clear; maximum door leaf is 48 inches

#### Number of Exits - IBC Chapter 10, table 1006.3.2(2)

- Group U occupancy, one means of egress permitted with a maximum occupant load of 49.

#### Travel Distance - IBC Chapter 10, table 1017.2

- Group U occupancy = 300 feet (without a sprinkler system)

#### Interior Wall and Ceiling Finish - Table 803.11

Group U-VB non-sprinkled  
Interior exit stairways: Class 'A'  
Corridors/Exit Access: Class 'B'  
Rooms and enclosed spaces: Class 'C'

## CODE CALCULATIONS

Plumbing Fixtures required - IBC Chapter 29

Equip./Restroom Bldg.:

Gross Sq. Footage 256

Occupancy Load Factor 50 gross

Total Occupants = 5

- Group U-VB Occupancy Load: sub total occupancy = 5;
- men: 2.5 occ.; women: 2.5 occ.

#### Required Laboratories:

- Male: occ. = 2.5, factor: 1/75, Required = 1, Actual = 1
- Female: occ. = 2.5, factor: 1/75, Required = 1, Actual = 1

#### Required Water Closets:

- Male: occ. = 2.5, factor: 1/125, Required = 1, Actual = 1
- Female: occ. = 2.5, factor: 1/65, Required = 1, Actual = 1

#### Required Drinking Fountains:

- Occupancy: 2.5, Factor: 1/500, Required = 1, Actual = 1

#### Required Service Sinks:

- Required = 1, Actual = 1

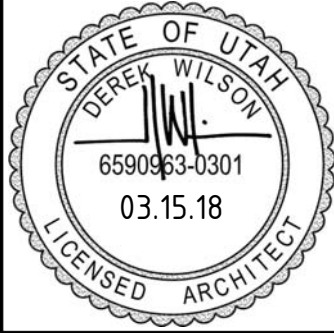
TAVERNACLE EXPANSION  
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| DRAWN BY    | CKG      |
| CHECKED BY  | DW       |
| SHEET TITLE |          |

CODE  
ANALYSIS

GI005

RANGE



RANGE ARCHITECTURE | DESIGN  
3115 EAST HERMES DRIVE SLC, UT 84124  
WWW.RANGEARCHITECTURE.COM 801.666.9750



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BUILDING CODE:

2015 EDITION OF THE INTERNATIONAL BUILDING CODE, WITH UTAH AMENDMENTS

DESIGN LOADS:

DEAD LOAD:  
ROOF DEAD LOAD = 20 PSF  
FLOOR DEAD LOAD = 20 PSF

LIVE LOAD:  
ROOF LIVE LOAD = 30 PSF (NON-REDUCIBLE)  
FLOOR LIVE LOAD = 50 PSF (OFFICE) + 15 PSF (PARTITION) (REDUCIBLE)  
FLOOR LIVE LOAD = 100 PSF (ASSEMBLY) (NON-REDUCIBLE)

SNOW LOAD:  
FLAT ROOF SNOW LOAD (Pf) = 30 PSF (NON-REDUCIBLE)  
SNOW EXPOSURE FACTOR (Ce) = 1.0  
SNOW IMPORTANCE FACTOR (Is) = 1.0  
THERMAL FACTOR (Ct) = 1.0

SEISMIC:  
IE = 1.0  
RISK CATEGORY = II  
SS = 1.434, S1 = 0.528  
SITE CLASS = D  
SDS = 0.956, SD1 = 0.528  
SEISMIC DESIGN CATEGORY = D

STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE THE FOLLOWING UNLESS NOTED OTHERWISE.

MATERIAL:

WIDE FLANGE SECTIONS: ASTM A992 (50 KSI)  
TUBE STEEL: ASTM A500 (46 KSI)  
PIPE STEEL: ASTM A501 (36 KSI) OR  
ASTM A53 GRADE B (35 KSI)

CHANNELS, ANGLES AND PLATES: ASTM A36 (36 KSI)  
BOLTS: ASTM A307 U.N.O.  
HEADED STUD ANCHORS: ASTM A108  
DEFORMED BAR ANCHORS: ASTM A496  
ANCHOR BOLTS: ASTM A307 WITH ASTM A563 HEAVY  
HEX NUTS WITH HARDENED  
WASHER

WELDS: E70XX AT ALL JOISTS  
E60XX AT DECKS AND LIGHTGAGE  
FRAMING  
E70XX AT ALL OTHER LOCATIONS

ALL CONSTRUCTION SHALL BE PER THE LATEST AISC HANDBOOK

HIGH STRENGTH BOLTS:

ALL HIGH STRENGTH BOLTS SHALL BE ASTM A325 AND SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE (I.E. A TYPE "N" CONNECTION). BOLTS MAY BE TIGHTENED USING ANY ASIC APPROVED METHOD. ALL HIGH STRENGTH BOLTING SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY TO ENSURE BOLT TENSION.

WOOD FRAMING:

SAWN LUMBER:

DIMENSIONAL LUMBER USED AS STRUCTURAL FRAMING (I.E. JOISTS, RAFTERS, AND HEADERS) SHALL BE SPF NO. 2 OR EQUAL UNO. DIMENSIONAL LUMBER USED FOR STUD WALLS SHALL BE STUD GRADE 2x6 UNLESS NOTED OTHERWISE. SPACE AT 16" O.C. MINIMUM, WITH A DOUBLE TOP PLATE. SPLICES IN THE DOUBLE TOP PLATE SHALL ALTERNATE TOP AND BOTTOM. ALL SILL PLATES ARE TO BE BOLTED TO FOUNDATION w/ 5/8" DIAMETER x 12" J-BOLTS @ 32" O.C. MIN WITH 3"x3"x0.2391" WASHERS, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS AND SHEARWALL SCHEDULE. IN NO CASE SHALL 2 X 4" BEARING WALLS SUPPORT MORE THAN TWO FLOORS OF FRAMING IN ADDITION TO ROOF AND CEILING. REFER TO CONSTRUCTION DOCUMENTS FOR ROUGH CUT TIMBER USED AS STRUCTURAL FRAMING. ALL NAILS SPECIFIED ON THE DETAILS AND SCHEDULES SHALL BE COMMON NAILS U.N.O.

ALL FASTENERS INSTALLED IN PRESERVATIVE TREATED WOOD SHALL MEET THE REQUIREMENTS OF IBC 2304.9.5.

COLUMNS:

ALL COLUMNS SHALL EXTEND DOWN THROUGH THE STRUCTURE TO THE FOUNDATION. COLUMNS SHALL BE BRACED AT EACH FLOOR LEVEL. POSTS SHALL BE HWM FIR NO. 2 OR EQUAL. BEARING POINTS OF COLUMNS ARE TO BE SUPPORTED BY ADDITIONAL BUILT-UP BLOCKING AT JOISTS AND RAFTERS EQUAL TO THE NUMBER OF PLYS IN POST OR EQUAL TO WIDTH OF POST. BLOCKING SHALL BE CONSTRUCTED USING RIM BOARD MATERIAL OR SOLID SAWN LUMBER.

GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED OTHERWISE

GLUED-LAMINATED BEAMS (GLULAM):

GLUED-LAMINATED BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2,400 PSI, Fv = 155 PSI, Fc (PERPENDICULAR) = 650 PSI, E = 1,700,000 PSI. BEAMS CANTILEVERING OVER SUPPORTS SHALL HAVE THE SPECIFIED MINIMUM PROPERTIES TOP AND BOTTOM. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS.

PLYWOOD:

ALL PLYWOOD SHALL BE C-D INTERIOR SHEATHING, STRUCTURAL 2 OR BETTER WITH EXTERIOR GLUE AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. (ON ROOFS WHERE PLYWOOD IS LAYED UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD). STAGGER JOINTS. ALL NAILING, COMMON NAILS. WHERE SCREWS ARE INDICATED FOR WOOD TO WOOD ATTACHMENTS, USE WOOD SCREWS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATIO AND SHALL BE ATTACHED AS FOLLOWS UNLESS NOTED OTHERWISE:

| USE  | THICKNESS | SPAN/INDEX RATIO | EDGE ATTACHMENT  | INTERMEDIATE ATTACHMENT |
|------|-----------|------------------|------------------|-------------------------|
| ROOF | -----     | 7/16"            | ----             | 40/20 ---               |
|      |           |                  | 8d @ 6" O.C. --- | 8d @ 12" O.C.           |

ALTERNATE:

AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFING CONTRACTOR. WHERE ROOF IS TO BE GUARANTEED, IT MAY NOT BE USED WITHOUT PRIOR APPROVAL FROM BUILT-UP ROOF SYSTEM MANUFACTURER. RATED SHEATHING SHALL COMPLY WITH ICC-ES EVALUATION REPORT ESR-2586, EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL:

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THRU THE ARCHITECT. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER PARTITIONS. PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. DOUBLE UP STUDS AT JAMBS AND AS REQUIRED UNDER BEAMS IN BEARING WALLS. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2 X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C. APPROVAL. DO NOT SUSPEND ANY SPRINKLERS, PIPING, CEILINGS OR ANY OTHER ITEMS FROM 2X JOISTS IN PANELIZED ROOF SYSTEM.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON HIS REVIEW.

VERIFY ALL DIMENSIONS WITH ARCHITECT AND ALL FINISHED GRADE WITH CIVIL DRAWINGS.

ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

GENERAL:

ENTIRE CONTRACT DOCUMENTS SHALL BE USED TO BUILD BUILDING. SOME CRITICAL ITEMS REQUIRED BY OTHER DISCIPLINES MAY NOT BE SHOWN ON STRUCTURAL DRAWING (I.E. WALL, FLOOR AND ROOF OPENING, ARCHITECTURAL, MECHANICAL AND PLUMBING LOADS, SUPPORT PLATES ETC.)

ITEMS SHOWN BY OTHER DISCIPLINES WITH REFERENCE TO STRUCTURAL DRAWING BUT NOT SHOWN ON THESE STRUCTURAL DOCUMENTS SHALL BE CONSIDERED DESIGN BUILD ITEMS. CONTRACTOR SHALL SUBMIT DESIGN BY OTHERS FOR REVIEW.

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF HE CHOOSES AN OPTION, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

ALL DIMENSIONS SHOWN (INCLUDING ELEVATIONS) ON STRUCTURAL DRAWINGS ARE TO ASSIST CONTRACTOR IN VERIFICATION. SCALING DIMENSIONS FROM DRAWINGS IS NOT PERMITTED. LOCATION OF ALL ITEMS SHALL BE DETERMINED BY DIMENSIONS OR NOTES ONLY; DO NOT USE GRAPHIC APPEARANCE TO ASSUME SPECIFIC LOCATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL AND FINISHED GRADE WITH CIVIL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF UTAH.

SUPPLIER OF ENGINEERED STRUCTURAL COMPONENTS (I.E. STEEL JOISTS, STAIRS, PRECAST ITEMS) SHALL BE RESPONSIBLE FOR COMPLETE DESIGN AND SHALL USE ENTIRE CONTRACT DOCUMENTS TO INCLUDE ALL LOADS AND DETAIL REQUIREMENTS FROM ALL DISCIPLINES. SUPPLIER SHALL PROVIDE ADDITIONAL MATERIAL REQUIRED TO MEET ALL THEIR REQUIREMENTS FOR INSTALLATION (I.E. WIDER BEARING PLATES, SHIMS, ERECTION BOLTS ETC.).

STRUCTURAL STEEL SUPPLIER SHALL FURNISH BOLTS FOR OSHA CONNECTIONS.

WALL SHORING SHALL BE INSTALLED PRIOR TO BACKFILLING BEHIND ALL BUILDING RETAINING WALLS, UNLESS ALL RESTRAINING SLABS ARE INSTALLED. USE HANDTAPPING ONLY WHEN WITHIN 8'-0", OR WITHIN HALF THE WALL HEIGHT OF BACKFILLED WALL.

CONTINUOUS FOUNDATION DRAIN PIPES (FRENCH DRAINS) OR WEEP HOLES SHALL BE PROVIDED BEHIND ALL BASEMENT WALLS AND ALL EXTERIOR RETAINING WALLS THAT RETAIN MORE THAN 3'-0" OF SOIL WEEP HOLES WHERE USED SHALL BE 2" IN DIAMETER AT 6'-0" O.C. MAXIMUM.

INTERPRETATION OF DRAWINGS

| LOCATION OF INFORMATION |                                               |                                                   |              |
|-------------------------|-----------------------------------------------|---------------------------------------------------|--------------|
| ITEM                    | INFORMATION                                   | LOCATION                                          | SHEET        |
| FRAMING MEMBERS         | TYPE, SIZE, CONNECTION CAMBER, BEARING PLATES | FRAMING PLAN<br>GENERAL STRUCTURAL NOTES (G.S.N.) | S100<br>S000 |
| COLUMNS                 | TYPE, SIZE, BASE PLATES, REINFORCING          | FRAMING PLAN<br>GENERAL STRUCTURAL NOTES (G.S.N.) | S100<br>S000 |

| PLAN LEGEND |                            |                                                                                                                                                                                          |
|-------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL      | DESCRIPTION                | REMARKS                                                                                                                                                                                  |
|             | DETAIL CUTS SHOWN ON PLANS | TYPICAL DETAILS ARE TWO DIGIT SERIES NUMBERS<br>FOUNDATION DETAILS ARE 100 SERIES DETAILS<br>FLOOR FRAMING DETAILS ARE 200 SERIES NUMBERS<br>ROOF FRAMING DETAILS ARE 300 SERIES NUMBERS |

| NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. FOR MATERIAL STRENGTHS, SEE GENERAL STRUCTURAL NOTES<br>2. VERIFY ALL DIMENSION WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION - RESOLVE ANY DISCREPANCIES WITH ARCHITECT<br>3. FOR CLARITY, ALL EXTERIOR SLABS AND SIDEWALKS MAY NOT BE SHOWN. FOR EXACT DIMENSIONS, LOCATIONS, JOINT AND SCORE LINES, SEE ARCHITECTURAL DRAWINGS<br>4. FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON FRAMING PLANS. FOR EXACT SIZE, NUMBER, AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL STRUCTURAL DETAILS. VERIFY ALL SIZES, WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL ENGINEER AND MECHANICAL CONTRACTOR THROUGH ARCHITECT<br>5. DETAILS MARKED "TYPICAL" MAY NOT BE CUT ON PLANS.<br>6. CONC C.J. - AS SHOWN ON PLAN INDICATES LOCATION OF EITHER KEYED OR SAW CUT CONTROL JOINT IN SLAB ON GRADE AT CONTRACTOR'S OPTION, SEE GENERAL STRUCTURAL NOTES AND PLANS.<br>7. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.<br>8. ALL SCHEDULE MARKS OR DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THE PLANS WHERE THE SCHEDULES OCCUR. SCHEDULES ARE TYPICAL TO THE PROJECT. |  |

| ABBREVIATIONS        |                          |                |                        |
|----------------------|--------------------------|----------------|------------------------|
| A.B.C. -----         | AGGREGATE BASE COURSE    | I.F.W. -----   | INSIDE FACE OF WALL    |
| ABV. -----           | ABOVE                    | HORIZ -----    | HORIZONTAL             |
| A/C -----            | AIR CONDITIONER          | K(KIP) -----   | 1000 POUNDS            |
| A.F.F. -----         | ABOVE FINISHED FLOOR     | L -----        | LIVE LOAD              |
| ALT. -----           | ALTERNATE                | LBS (#) -----  | POUNDS                 |
| A.B. -----           | ANCHOR BOLT              | LLH -----      | LONG LEG HORIZONTAL    |
| ⊙ -----              | AT (MEASUREMENT)         | LLV -----      | LONG LEG VERTICAL      |
| BM -----             | BEAM                     | MFR("S) -----  | MANUFACTURER(S)        |
| B.F.F. -----         | BELOW FINISHED FLOOR     | MAS C.J. ----- | MASONRY CONTROL JOINT  |
| B.O.B. -----         | BOTTOM OF BEAM           | MECH/L -----   | MECHANICAL             |
| B.O.D. -----         | BOTTOM OF DECK           | N/A -----      | NOT APPLICABLE         |
| B.O.F. -----         | BOTTOM OF FOOTING        | N.T.S. -----   | NOT TO SCALE           |
| BRG -----            | BEARING                  | O.C. -----     | ON CENTER              |
| C.I.P. -----         | CAST IN PLACE            | O.F.W. -----   | OUTSIDE FACE OF WALL   |
| C.L. -----           | CENTERLINE               | OPP -----      | OPPOSITE               |
| C.L.B. -----         | CENTERLINE OF BEAM       | P.C. -----     | PRECAST CONCRETE       |
| C.L.C. -----         | CENTERLINE OF COLUMN     | P.J. -----     | PANEL JOINT            |
| C.L.F. -----         | CENTERLINE OF FOOTING    | P.L.F. -----   | POUNDS PER LINEAR FOOT |
| C.L.W. -----         | CENTERLINE OF WALL       | P.W.D -----    | PLYWOOD                |
| CLR -----            | CLEAR                    | PREFAB -----   | PREFABRICATED          |
| CONC -----           | CONCRETE                 | PSF -----      | POUNDS PER SQUARE FOOT |
| CONC C.J. -----      | CONCRETE CONTROL JOINT   | PSI -----      | POUNDS PER SQUARE INCH |
| CONC S.J. -----      | CONCRETE SAWCUT JOINT    | REINF -----    | REINFORCING            |
| C.M.U. -----         | CONCRETE MASONRY UNIT    | SLH -----      | SHORT LEG HORIZONTAL   |
| CONN -----           | CONNECTION               | SLV -----      | SHORT LEG VERTICAL     |
| CONT -----           | CONTINUOUS               | SIM -----      | SIMILAR                |
| D.L. -----           | DEAD LOAD                | SQ. -----      | SQUARE                 |
| ⌀ OR DIA. -----      | DIAMETER                 | STD -----      | STANDARD               |
| DN -----             | DOWN                     | STL -----      | STEEL                  |
| DWG(S) -----         | DRAWING(S)               | T.L. -----     | TOTAL LOAD             |
| E.O.S -----          | EDGE OF SLAB             | T.O.B. -----   | TOP OF BEAM            |
| EQ -----             | EQUAL                    | T.O.D. -----   | TOP OF DECK            |
| EQUIP -----          | EQUIPMENT                | T.O.F. -----   | TOP OF FOOTING         |
| EXP. BOLT -----      | EXPANSION BOLT           | T.O.L. -----   | TOP OF LEDGER          |
| EXP. JT (E.J.) ----- | EXPANSION JOINT          | T.O.M. -----   | TOP OF MASONRY         |
| E.W. -----           | EACH WAY                 | T.O.P. -----   | TOP OF PLATE           |
| F.F. -----           | FINISHED FLOOR           | T.O.S. -----   | TOP OF STEEL           |
| F.O.M. -----         | FACE OF MEMBER           | T.O.W. -----   | TOP OF WALL            |
| F.O.S. -----         | FACE OF STEEL            | TYP -----      | TYPICAL                |
| F.O.W. -----         | FACE OF WALL             | U.N.O -----    | UNLESS NOTED OTHERWISE |
| G.A. -----           | GAGE                     | VERT -----     | VERTICAL               |
| GALV -----           | GALVANIZED               | W.W.F. -----   | WELDED WIRE FABRIC     |
| G.S.N. -----         | GENERAL STRUCTURAL NOTES | W/ -----       | WITH                   |
| GLB (GLULAM) -----   | GLUED-LAMINATED BEAM     | W/O -----      | WITHOUT                |

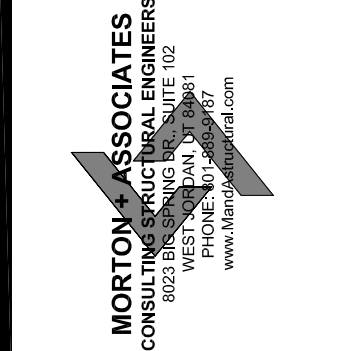
| LOCATION OF DETAILS                                                                        |       |                 |
|--------------------------------------------------------------------------------------------|-------|-----------------|
| DETAILS                                                                                    | SHEET | DESCRIPTION     |
| 101-109                                                                                    | S2.1  | FRAMING DETAILS |
| FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE INTERPRETATION OF DRAWINGS, SHEET S000 |       |                 |

TAVERNACLE EXPANSION  
207 BROADWAY  
SLC, UT 84111

|             |       |
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| REVISIONS   |       |
| PERMIT SET  | ---   |
| CONFORM SET |       |
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|             |       |
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|             |       |
|             |       |
| PLOT DATE   | --    |
| PROJECT     | 18007 |
| DRAWN BY    | STAFF |
| CHECKED BY  | JSM   |
| SHEET TITLE |       |

STRUCTURAL  
GEN. NOTES

S 0.1



RANGE ARCHITECTURE | DESIGN  
315 EAST HERMES DRIVE SLC, UT 84103  
WWW.RANGEARCHITECTURE.COM 801.494.7950



THE  
EXPER

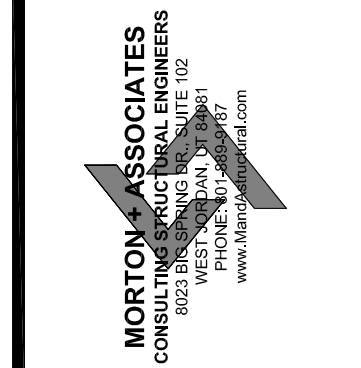


SCALE: 1/4" = 1'-0"



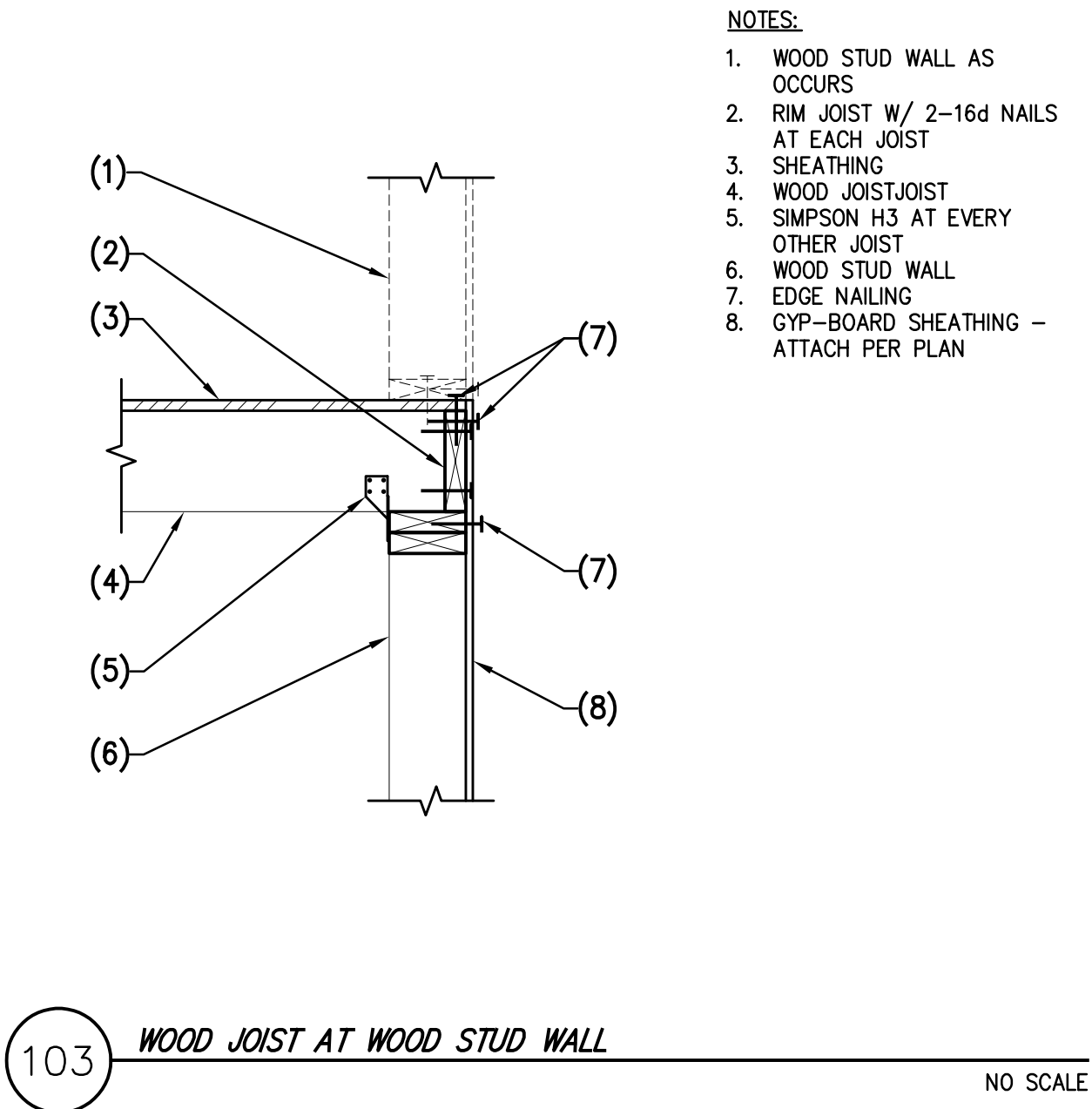
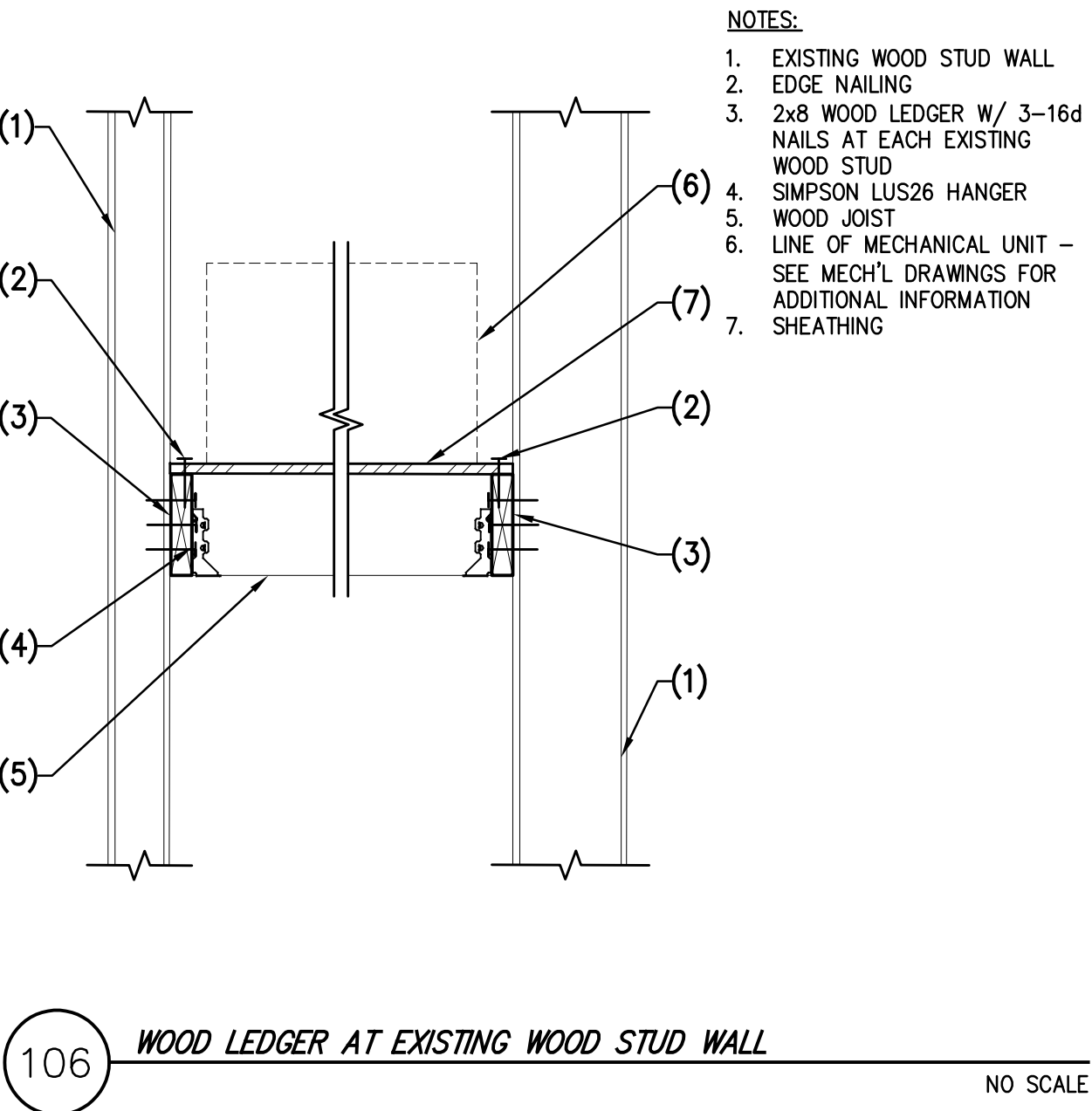
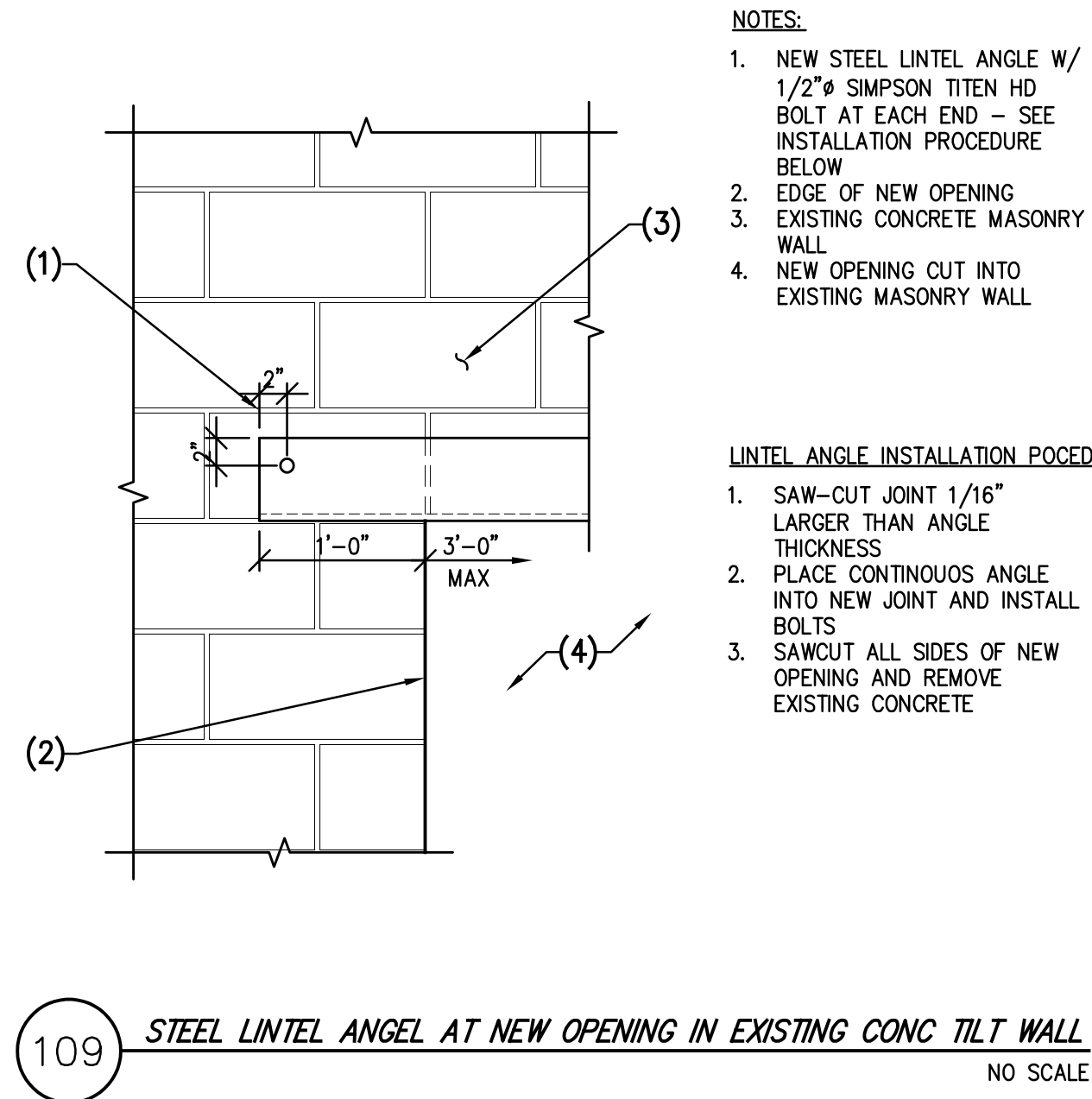
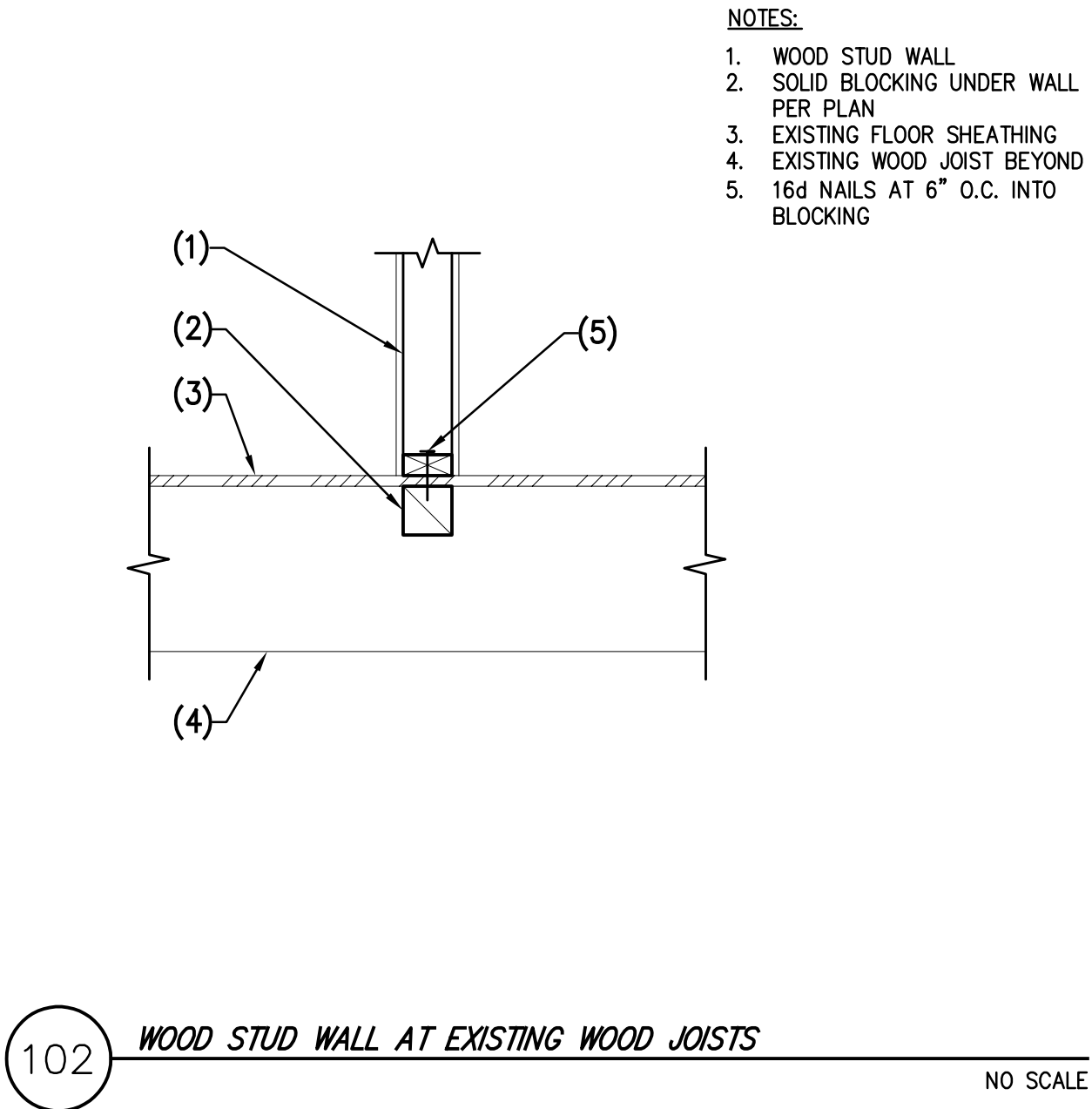
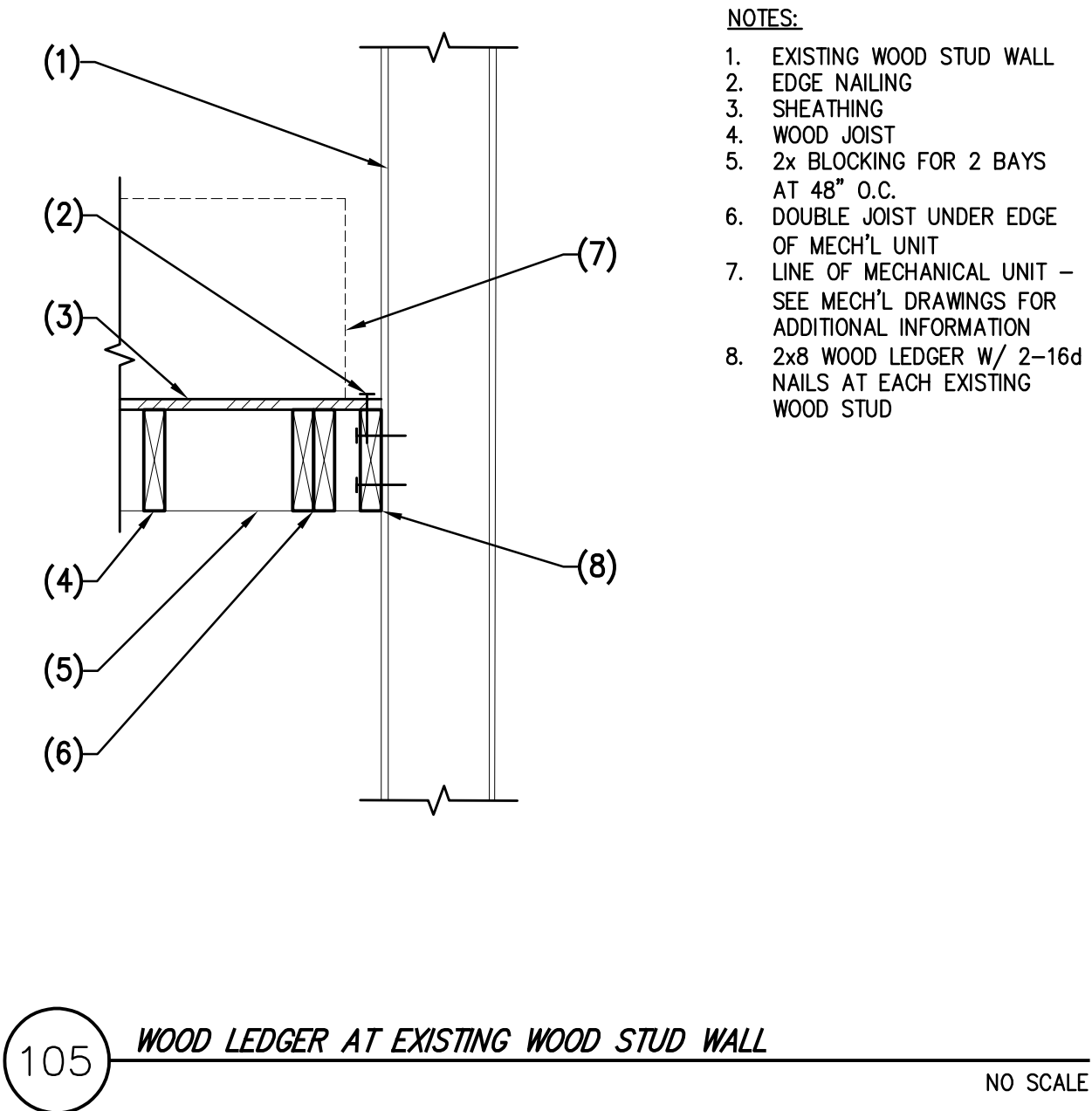
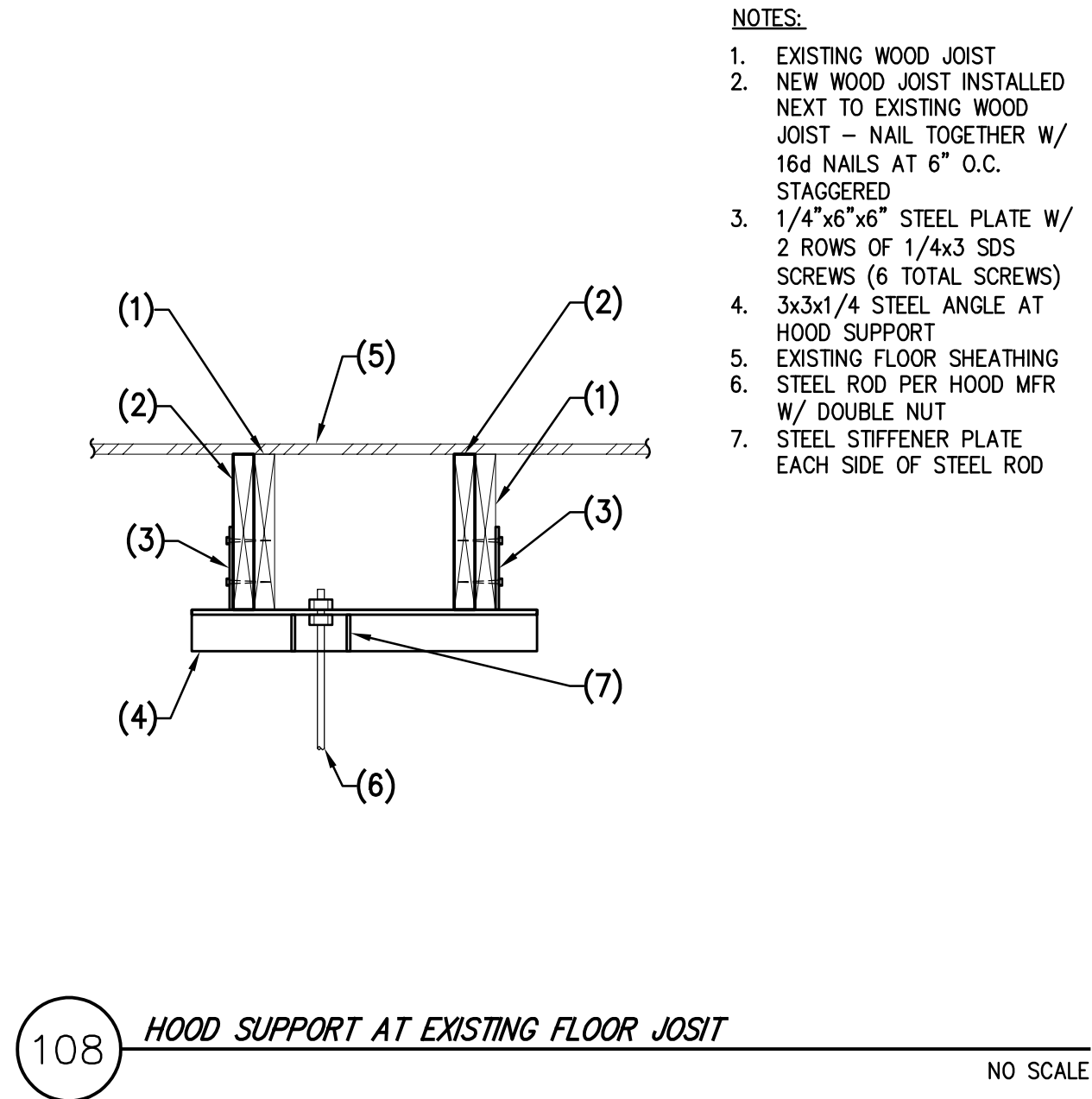
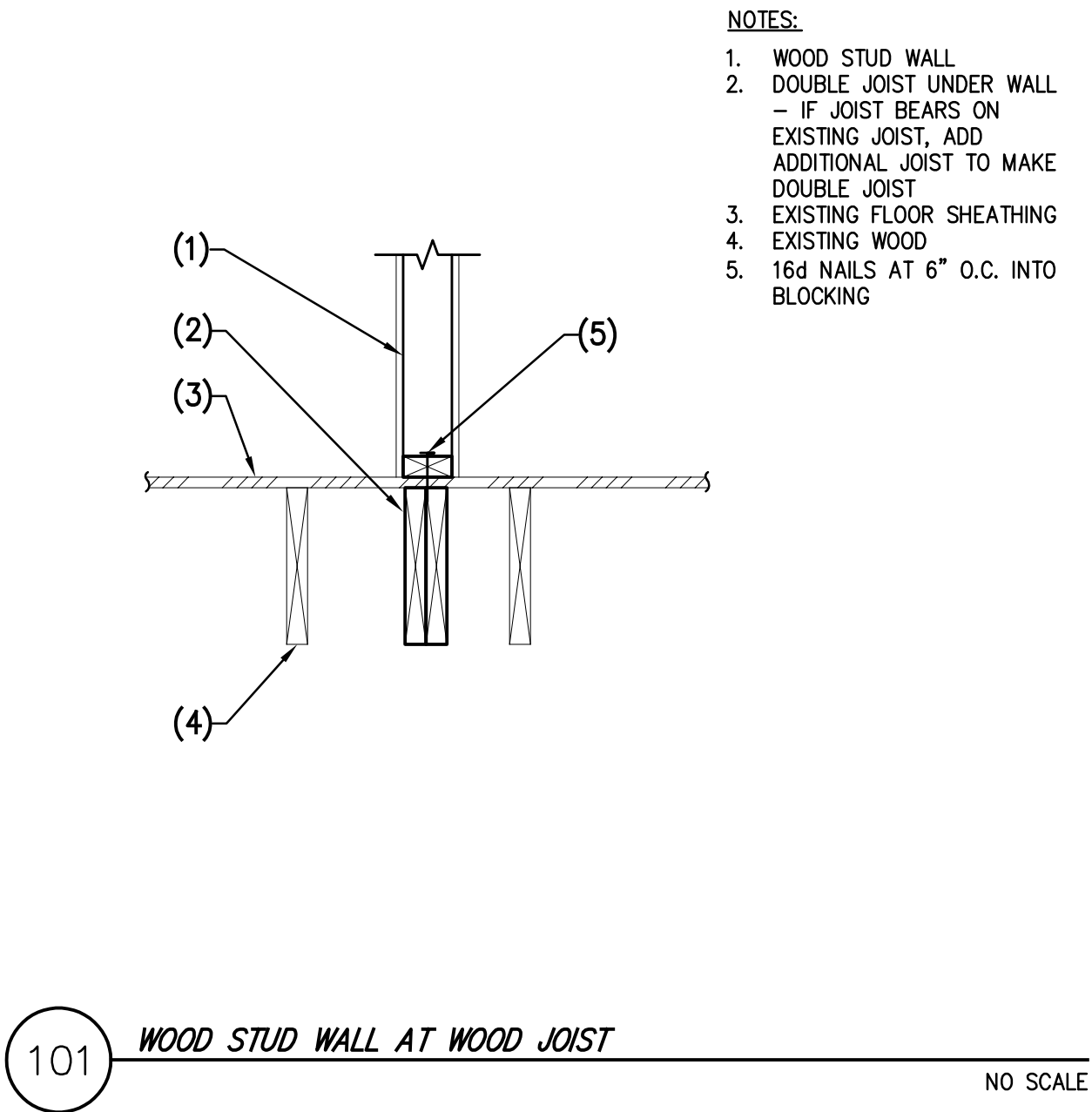
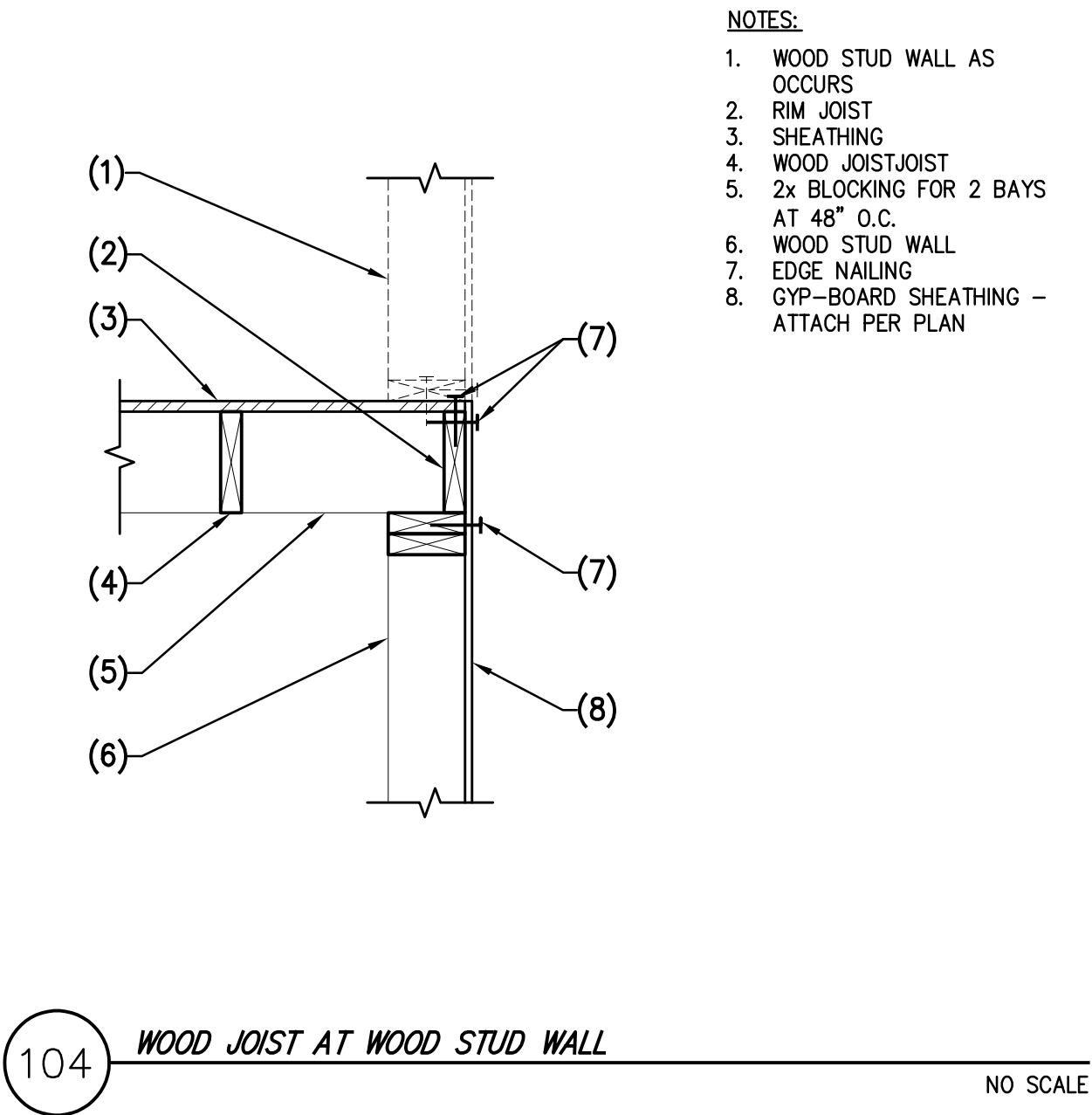
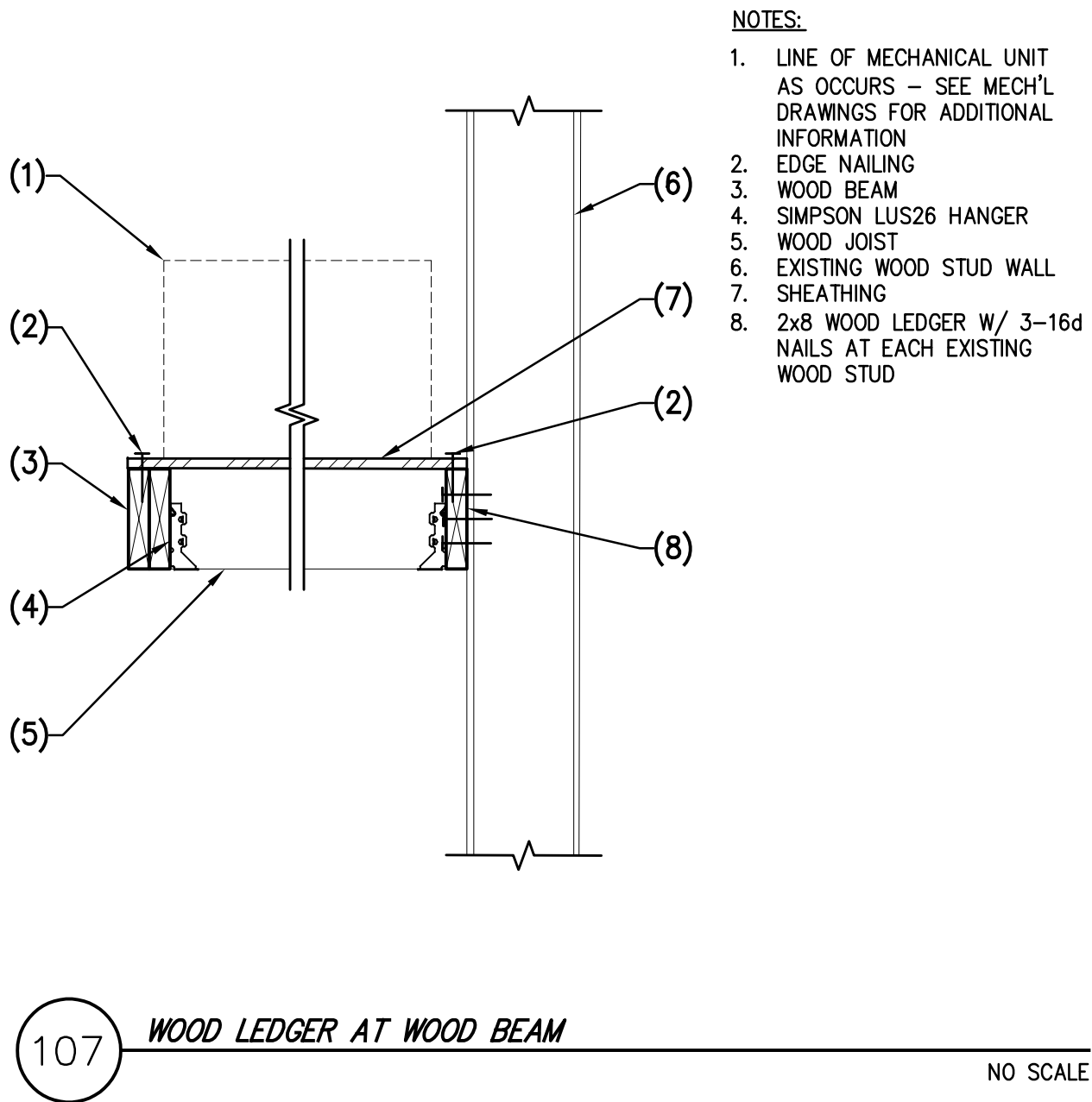
SCALE: 1/4" = 1'-0"

- # S 1.1



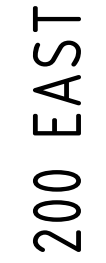


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BROADWAY

## SITE PLAN

SCALE: 1" = 10'-0"

01

AS101

$n$

GENERALNOTES:

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- DIMENSION  $\neq$  INTERIOR WALLS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
- G.C. TO PROVIDE BLOCKING IN WALLS FOR ALL CABINETS, ACCESSORIES AND AV EQUIPMENT.
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- AUTOMATIC OR GRAVITY DAMPERS ARE INSTALLED ON ALL OUTDOOR AIR INTAKES AND EXHAUSTS.
- TEMPERED GLAZING REQUIRED AT: 24" FROM DOOR, 18" FOR FINISH FLOOR, NEAR TUB/SHOWER, GREATER THAN 9 SF, WITHIN 60' OF STAIR LANDING, WITHIN 36' OF WALKWAYS.

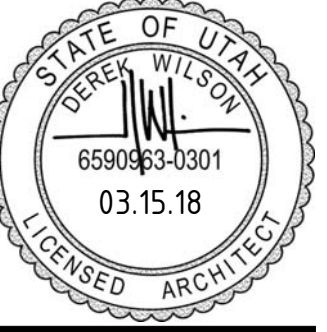
\*FOR SHEET AS101 ONLY

KEYED NOTE LEGEND:

- 1 TENANT PROJECT AREA.
- 2 EXISTING PARKING LOT TO REMAIN. PROTECTED.
- 3 EXISTING CONCRETE FLATWORK TO REMAIN. PROTECT.
- 4 EXISTING TREE. TO REMAIN. PROTECTED. TYP.
- 5 EXISTING MASONRY BUILDING TO REMAIN. PROTECT.
- 6 NEW GREASE DUCT & FAN. SEE FLOOR PLANS.

# RANGE

RANGE ARCHITECTURE | DESIGN  
3745 EAST HERMES DRIVE SLC, UT 84124  
WWW.RANGEARCHITECTURE.COM 801.694.915



TAVERNACLE EXPANSION  
207 BROADWAY

207 BROADWAY  
SLC, UT 84111

## REVISIONS

PERMIT SET 03.15.18

CONFORM SET



PLOT DATE 03.15.18

|         |      |
|---------|------|
| PROJECT | 1722 |
|---------|------|

DRAWN BY CKG

CHECKED BY DW

SHEET TITLE

SHEET 1 OF 2

\_\_\_\_\_

ARCHITECTURAL

## SITE PLAN

## ONE YEAR

1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

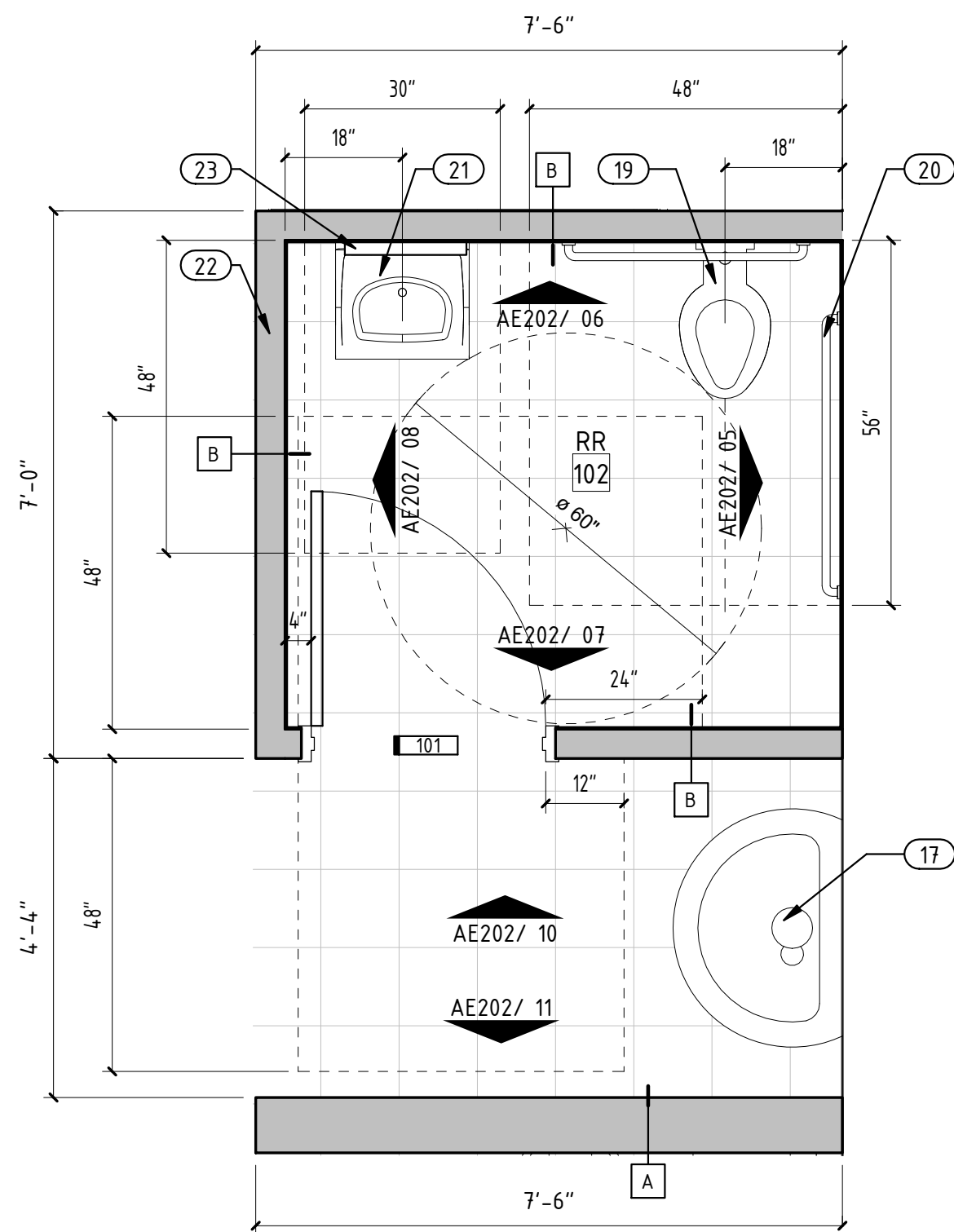
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# NOTES

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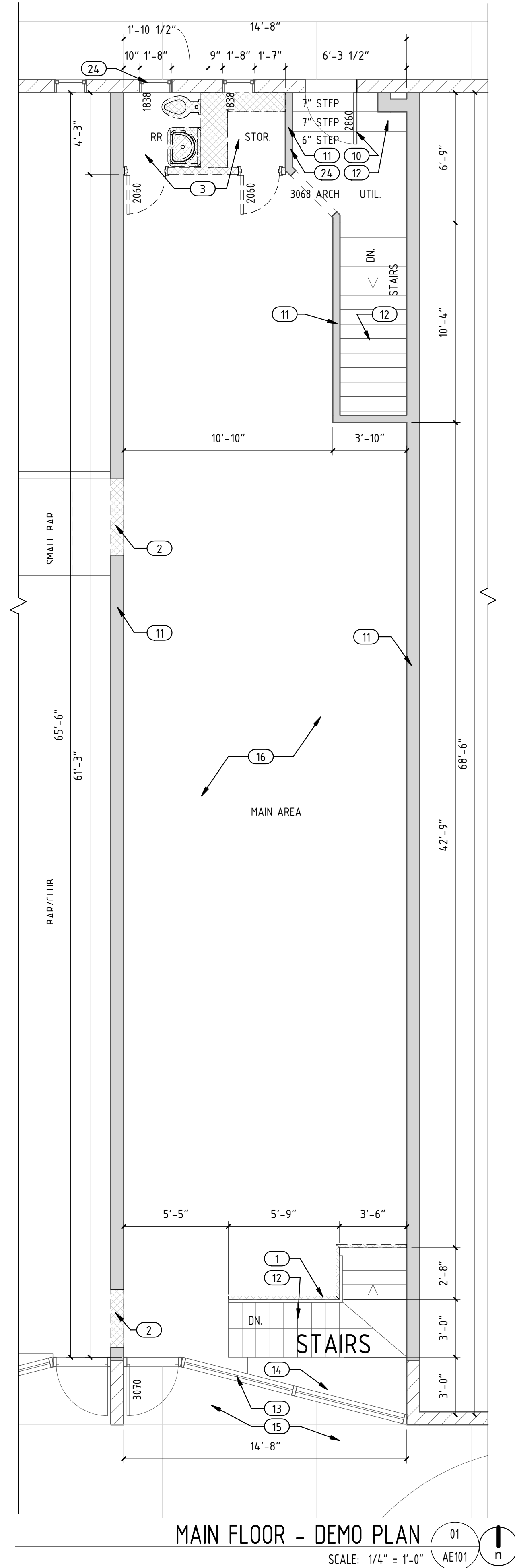


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MAIN FLOOR - FLOOR PLAN

SCALE: 1/4" = 1'-0"



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- 1 DEMO RAILING. REPLACING WITH NEW RAILING. SEE DETAIL AE302/04.
- 2 DEMO WALL FOR NEW DOORWAY. SEE FLOOR PLAN FOR DIMENSIONS.  
SEE STRUCTURAL PLANS.
- 3 DEMO RESTROOM AND STORAGE. THIS INCLUDES TOILET, SINK AND  
SHELVES. SHOWN HATCHED. SEE PLUMBING.
- 4 NEW WOOD FRAMED PLATFORM. SEE DETAILS.
- 5 P.O.S. COUNTERTOP. SEE INTER. ELEV.
- 6 NEW OPENING IN EXISTING WALL. SEE STRUCT. & INTER. ELEV'S.
- 7 NEW TV AND NEON LIGHTS ON WALLS. SEE INTERIOR ELEVATIONS FOR  
LOCATIONS AND DESIGN.
- 8 NEW BANQUETTE SEATING. SEE DETAILS.
- 9 TABLES AND CHAIRS FOR REFERENCE. (SELECTED BY OWNER).
- 10 EXISTING DOOR TO REMAIN.
- 11 EXISTING WOOD FRAMED WALL TO REMAIN. PATCH AND REPAIR. TYP.
- 12 EXISTING STAIRS AND HANDRAILS TO REMAIN.
- 13 EXISTING STOREFRONT SYSTEM TO REMAIN.
- 14 EXISTING RAISED DISPLAY TO REMAIN. PREP FOR NEW TILE.
- 15 EXISTING SIDEWALK TO REMAIN.
- 16 DEMO LAMINATE FLOORING & BASEBOARD.
- 17 WASH BASIN LAVATORY. SEE PLUMBING DRAWINGS. TYP.
- 18 NEW TILE FLOORING. SEE FINISH SCHEDULE.
- 19 TOILET. SEE PLUMBING DRAWINGS.
- 20 STAINLESS STEEL GRAB BAR. SEE ADA DETAIL ON G1002. TYP.
- 21 LAVATORY. SEE PLUMBING DRAWINGS. TYP.
- 22 WOOD FRAMED WALL. SEE WALL TYPES.
- 23 MIRROR. SEE ACCESSORIES SCHEDULE.
- 24 EXSTING WINDOW TO REMAIN. TYP.
- 25 NEW CUSTOM RAILING. SEE DETAIL 04/AE302.
- 26 PARTIAL STEEL WALL. SEE INTER. ELEV.
- 27 3X3 STEEL POST ANCHORED TO TOP & BOTTOM OF FLOOR JOIST.  
INSTALL AT END OF WALL & EXTEND TO TOP OF WALL.

|             |          |
|-------------|----------|
| REVISIONS   |          |
| PERMIT SET  | 03.15.18 |
| CONFORM SET |          |
|             |          |
|             |          |
|             |          |
| PLOT DATE   | 03.15.18 |
| PROJECT     | 1722     |
| DRAWN BY    | CKG      |
| CHECKED BY  | DW       |
| SHEET TITLE |          |

FLOOR PLANS  
& WALL  
TYPES  
**AE101**



| FINISH LEGEND  |                                                                                           | BASE                              | WALLS | FLOOR |
|----------------|-------------------------------------------------------------------------------------------|-----------------------------------|-------|-------|
| SYMBOL         | FINISH<br>FLOOR                                                                           | NOTE (SEE ALSO ROOM FINISH NOTES) |       |       |
| F1             | TILE FLOORING<br>MFR: TILEDAILY.COM<br>12X24 MP0037NL (NICKEL)<br>COLOR: TBD, GROUT: TBD. |                                   |       |       |
| F2             | EPOXY FLOORING<br>MFR: EVERLAST EPOXY<br>COLOR: RAVEN                                     |                                   |       |       |
| F3             | CARPET<br>MFR: TRAFFIC MASTER<br>TYP: POLYESTER<br>COLOR: DARK GRAY                       |                                   |       |       |
| PAINT LEGEND   |                                                                                           |                                   |       |       |
| P1             | PAINT (KITCHEN)<br>MFR: BENJAMIN MOORE<br>COLOR: WHITE SATIN<br>SHEEN: TBD                |                                   |       |       |
| P2             | PAINT (PREP & DINING WALLS)<br>MFR: BENJAMIN MOORE<br>COLOR: GRAY SATIN<br>SHEEN: TBD     |                                   |       |       |
| P3             | PAINT (RESTROOM)<br>MFR: BENJAMIN MOORE<br>COLOR: TBD<br>SHEEN: TBD                       |                                   |       |       |
| P4             | PAINT (DINING CEILING)<br>MFR: BENJAMIN MOORE<br>COLOR: BLACK<br>SHEEN: MATTE             |                                   |       |       |
| STAIN LEGEND   |                                                                                           |                                   |       |       |
| S1             | WOOD STAIN<br>MFR: TBD<br>COLOR: TBD                                                      |                                   |       |       |
| CEILING LEGEND |                                                                                           |                                   |       |       |
| C1             | LAY-IN CEILING<br>MFR: ARMSTRONG<br>PRODUCT: KITCHEN ZONE TILE, 2X2<br>COLOR: WHITE       |                                   |       |       |

| ACCESSORIES SCHEDULE  |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| ITEM                  | DESCRIPTION                                                                        |
| MIRROR                | BOBRICK, B-293, 24" X 36"<br>STAINLESS STEEL<br>SURFACE-MOUNTED, FIXED/TILT MIRROR |
| TOILET PAPER DISP.    | BOBRICK B-2888<br>STAINLESS STEEL<br>SURFACE-MOUNTED, MULTI-ROLL                   |
| PAPER TOWEL DISPENSER | BOBRICK B-262<br>STAINLESS STEEL<br>SURFACE-MOUNTED                                |
| GRAB BARS             | 2" DIAMETER<br>STAINLESS STEEL                                                     |
| CHANGING TABLE        | GAMCO BCS-2<br>35" X 4" X 20"<br>COLOR: GRAY                                       |
| BARN DOOR HARDWARE    | TBD                                                                                |
| WASH BASIN            | BRADLEY<br>STAINLESS STEEL SEMI-CIRCULAR CLASSIC WASHFOUNTAIN<br>36" WF2703        |

The floor plan shows a rectangular room with several fixtures indicated by numbered callouts:

- Callout 5:** Points to a mirror on the top wall.
- Callout 6:** Points to a toilet paper dispenser on the top wall.
- Callout 7:** Points to a paper towel dispenser on the right wall.
- Callout 8:** Points to a grab bar near the bottom left corner.
- Callout 9:** Points to a changing table on the bottom wall.

# TAVERNACLE EXPANSION

207 BROADWAY  
SLC, UT 84111

CEIL. PLAN,  
FIN. PLAN &  
ROOF PLAN

## AE102

|             |          |
|-------------|----------|
| REVISONS    |          |
| PERMIT SET  | 03.15.18 |
| CONFORM SET |          |
|             |          |
|             |          |
| PLOT DATE   | 03.15.18 |
| PROJECT     | 1722     |
| DRAWN BY    | CKG      |
| CHECKED BY  | DW       |
| SHEET TITLE |          |

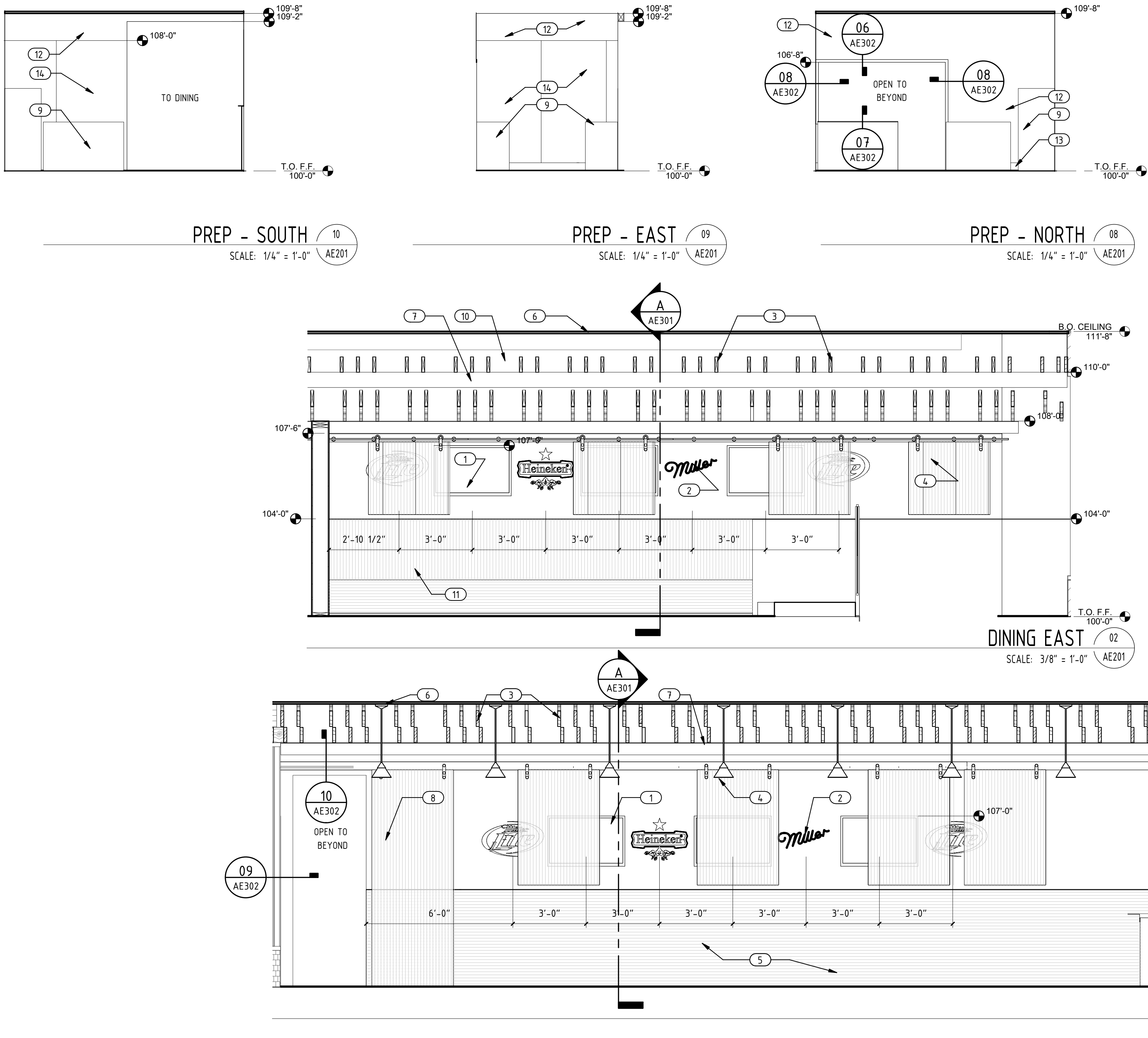
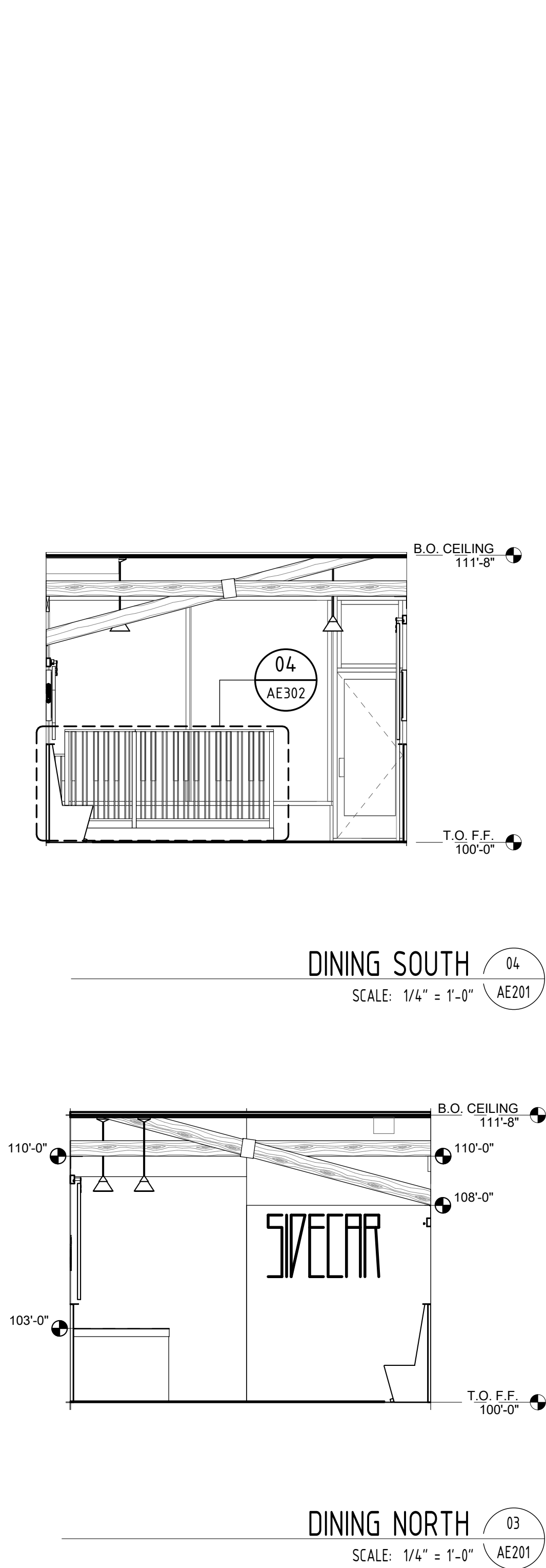
STATE OF UTAH  
BRECK WILSON  
6590463-0301  
03.15.18  
LICENSED ARCHITECT

RANGE ARCHITECTURE | DESIGN  
1155 S. 1000 E. SUITE 200  
SALT LAKE CITY, UT 84143  
WWW.RANGEARCHITECTURE.COM 801.456.9709

CEIL. PLAN,  
FIN. PLAN &  
ROOF PLAN  
**AE102**



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- AUTOMATIC OR GRAVITY DAMPERS ARE INSTALLED ON ALL OUTDOOR AIR INTAKES AND EXHAUSTS.
- TEMPERED GLAZING REQUIRED AT: 24" FROM DOOR, 1 8" FOR FINISH FLOOR, NEAR TUB/SHOWER, GREATER THAN 9 SF, WITHIN 60" OF STAIR LANDING, WITHIN 36" OF WALKWAYS.

## \*FOR SHEET AE201 ONLY KEYED NOTE LEGEND:

- NEW MOUNTED TV. 3" MAX THICKNESS. SEE ACCESSORIES SCHEDULE.
- NEW NEON LIGHTS. 3" MAX THICKNESS. SEE ACCESSORIES SCHEDULE.
- NEW 2X8 FAUX RAFTERS TO SIT ON STEEL LINTEL. SEE CEILING PLAN FOR SPACING.
- NEW BARN DOOR STYLE SLIDERS MADE BY 2X2 MEMBERS. SEE FINISH SCHEDULE FOR STAIN AND HARDWARE.
- FIBER CEMENT SIDING. SEE WALL TYPE AND FINISH SCHEDULE.
- NEW 1" BLACK DUCTLINER. TYPICAL ON CEILING ABOVE FAUX RAFTERS.
- NEW STEEL LINTEL TO SUPPORT FAUX RAFTERS.
- NEW BARN DOOR MADE BY 2X2 MEMBERS. SEE FINISH SCHEDULE FOR STAIN AND HARDWARE.
- KITCHEN APPLIANCES. SEE KITCHEN LAYOUT FOR FINAL LOCATION AND DESIGN.
- NEW BLACK PAINT ON GYP. BRD. TYPICAL WHERE RAFTERS ARE LOCATED.
- NEW BANQUETTE SEATING. SEE DETAILS.
- PAINT. SEE FINISH SCHEDULE.
- TILE W/COVERD BASE AT KITCHEN.
- FRP. UP TO 8'.

RANGE



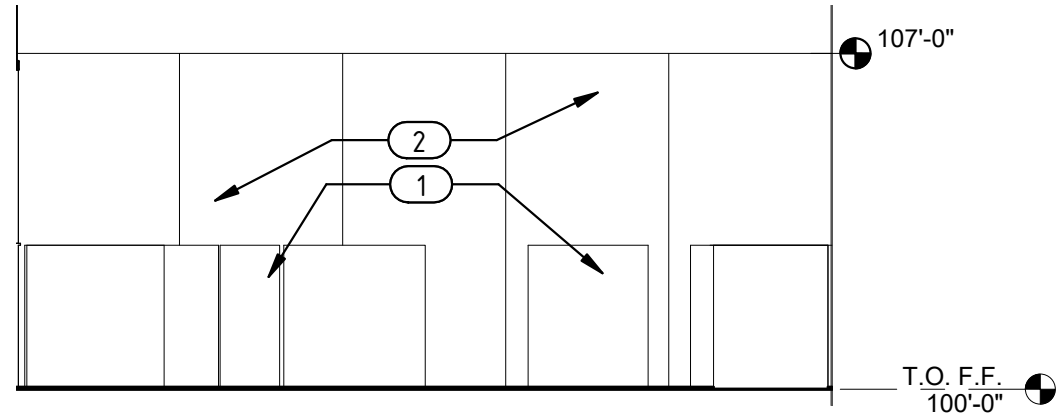
TAVERNACLE EXPANSION  
207 BROADWAY  
SLC, UT 84111

| REVISIONS   |          |
|-------------|----------|
| PERMIT SET  | 03.15.18 |
| CONFORM SET |          |
|             |          |
|             |          |
|             |          |
| PLOT DATE   | 03.15.18 |
| PROJECT     | 1722     |
| DRAWN BY    | CKG      |
| CHECKED BY  | DW       |
| SHEET TITLE |          |

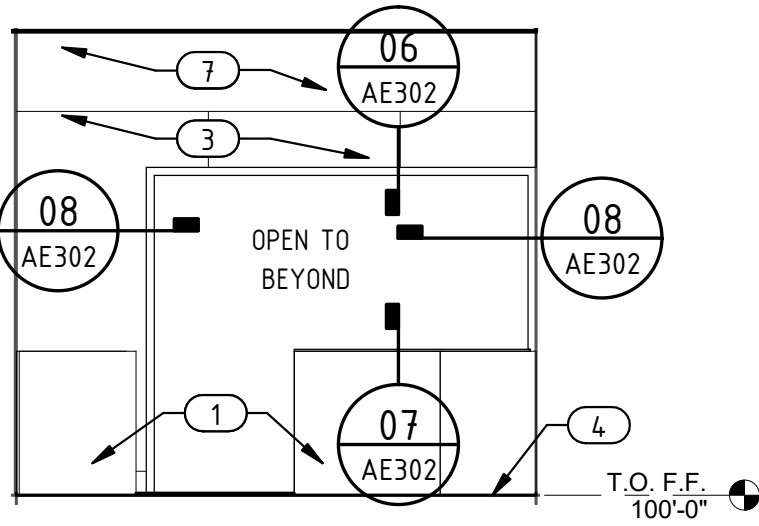
DINING INT.  
Elevs. &  
DET.  
**AE201**



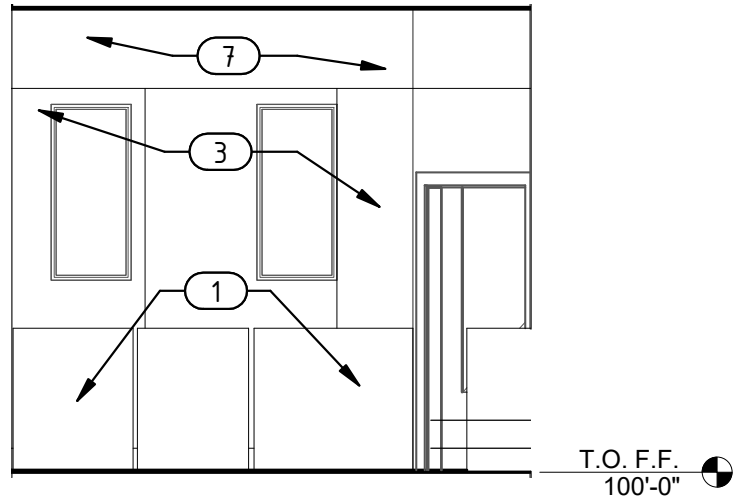
THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN REPRODUCTION, DUPLICATION, COPYING, IMITATION, COMMERCIAL EXPLOITATION, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.



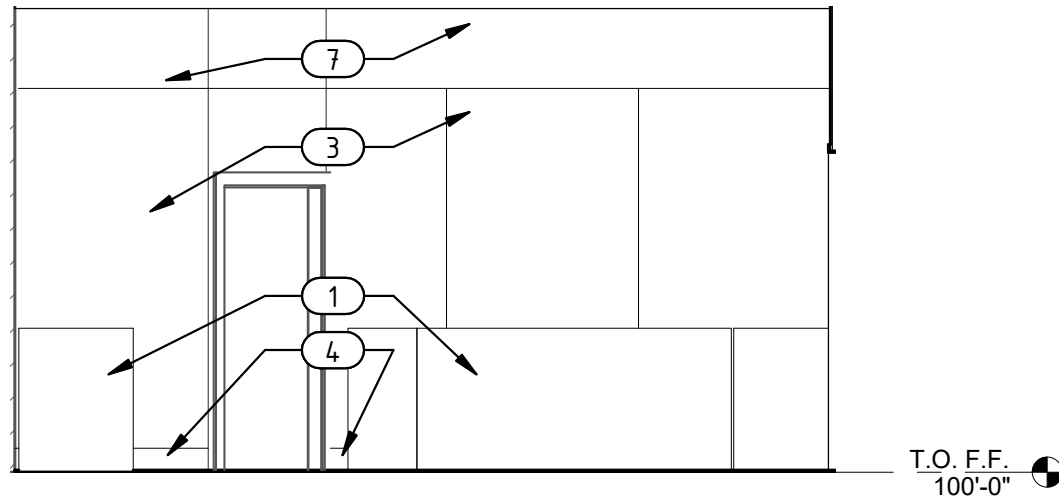
KITCHEN - WEST 04  
SCALE: 1/4" = 1'-0" AE202



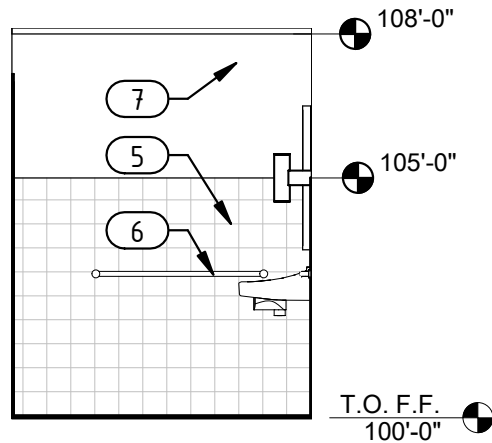
KITCHEN - SOUTH 03  
SCALE: 1/4" = 1'-0" AE202



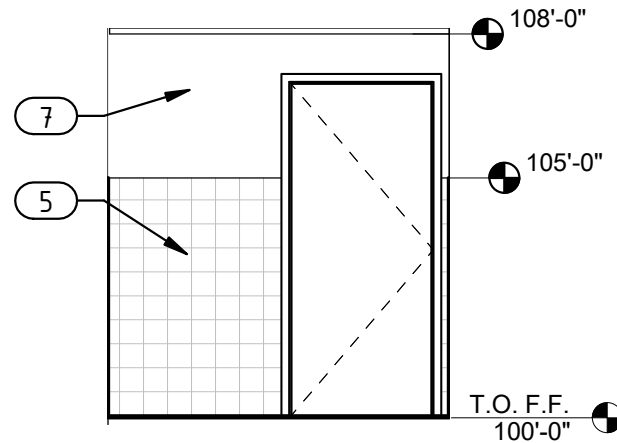
KITCHEN - NORTH 02  
SCALE: 1/4" = 1'-0" AE202



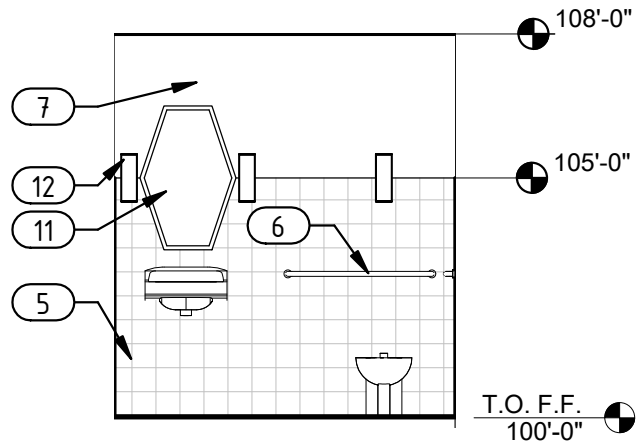
KITCHEN - EAST 01  
SCALE: 1/4" = 1'-0" AE202



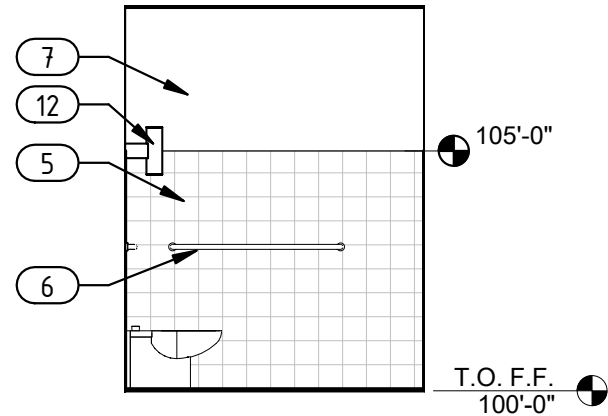
RESTROOM - WEST 08  
SCALE: 1/4" = 1'-0" AE202



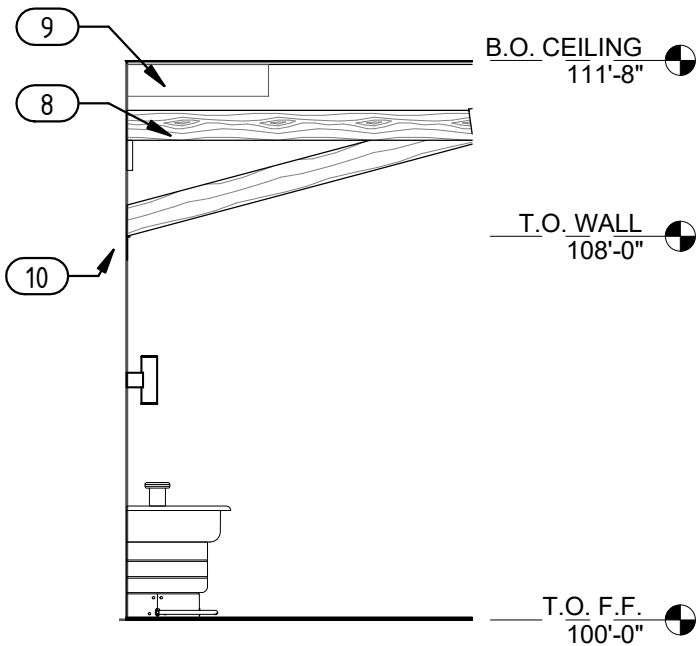
RESTROOM - SOUTH 07  
SCALE: 1/4" = 1'-0" AE202



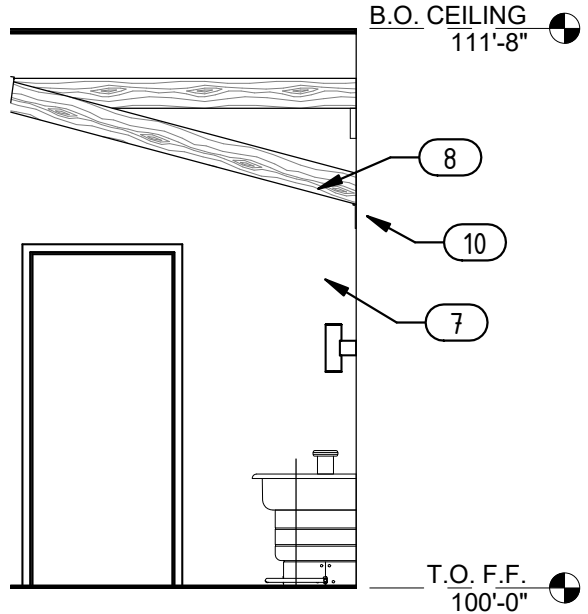
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SCALE: 1/4" = 1'-0" AE202



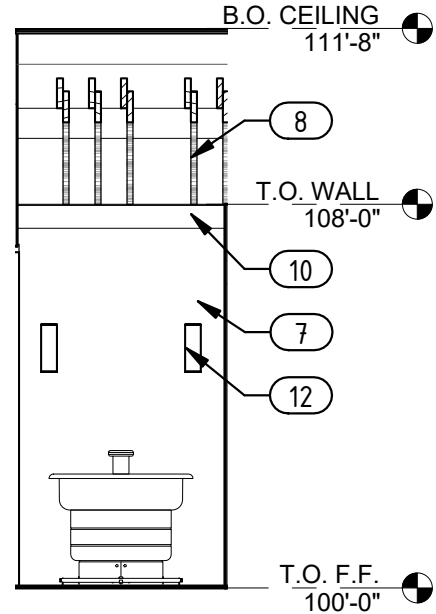
RESTROOM - EAST 05  
SCALE: 1/4" = 1'-0" AE202



HALL - SOUTH 11  
SCALE: 1/4" = 1'-0" AE202



HALL - NORTH 10  
SCALE: 1/4" = 1'-0" AE202



HALL - EAST 09  
SCALE: 1/4" = 1'-0" AE202

## GENERALNOTES:

- SEE TITLE SHEET FOR DRAWING INDEX.
- DO NOT SCALE DRAWINGS.
- CONTRACTOR / SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK, AND SHALL REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES OR OMISSIONS BEFORE BEGINNING WORK. SEE GENERAL NOTES AND SPECIFICATIONS.
- N.I.C. = NOT IN CONTRACT, EQUIPMENT LABELED AS N.I.C. OT SHOWN DASHED TO BE PROVIDED BY FISTURE SUPPLIER OR OWNER, G.C. TO PROVIDE NECESSARY ELEC./MECH. REQUIREMENTS.
- DIMENSION # INTERIOR WALLS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
- G.C. TO PROVIDE BLOCKING IN WALLS FOR ALL CABINETS, ACCESSORIES AND AV EQUIPMENT.
- FIXTURE LOCATION DIMENSIONS AREA SCHEMATIC ONLY. CONFIRM LOCATION OF FIXTURES WITH FIXTURE SUPPLIER PRIOR TO INSTALLINGELECTRICAL SERVICE, BLOCKING OR OTHER FIXTURE RELATED REQUIREMENTS.
- AUTOMATIC OR GRAVITY DAMPERS ARE INSTALLED ON ALL OUTDOOR AIR INTAKES AND EXHAUSTS.
- TEMPERED GLAZING REQUIRED AT: 24" FROM DOOR, 1 8" FOR FINISH FLOOR, NEAR TUB/SHOWER, GREATER THAN 9 SF, WITHIN 60" OF STAIR LANDING, WITHIN 36" OF WALKWAYS.

\*FOR SHEET AE202 ONLY

## KEYED NOTE LEGEND:

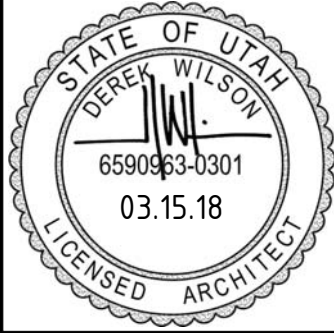
- KITCHEN APPLIANCES. SEE KITCHEN LAYOUT FOR FINAL LOCATION AND DESIGN.
- STAINLESS STEEL PANELS. UP TO 8'. PAINT ABOVE.
- FRP. UP TO 8'.
- TILE W/COVERED BASE AT KITCHEN.
- TILE WAINSCOTT.
- STAINLESS STEEL GRAB BAR. SEE ADA DETAIL ON G1002. TYP.
- PAINT. SEE FINISH SCHEDULE.
- NEW 2X8 FAUX RAFTERS TO SIT ON STEEL LINTEL. SEE CEILING PLAN FOR SPACING.
- EXISTING DUCT WORK. ABOVE WOOD CLOUD.
- NEW STEEL LINTEL TO SUPPORT FAUX RAFTERS.
- MIRROR. SEE ACCESSORIES SCHEDULE.
- WALL LIGHT FIXTURE. SEE ELECTRICAL.

# TAVERNACLE EXPANSION

207 BROADWAY  
SLC, UT 84111

|             |          |
|-------------|----------|
| REVISIONS   |          |
| PERMIT SET  | 03.15.18 |
| CONFORM SET |          |
|             |          |
|             |          |
|             |          |
| PLOT DATE   | 03.15.18 |
| PROJECT     | 1722     |
| DRAWN BY    | CKG      |
| CHECKED BY  | DW       |
| SHEET TITLE |          |

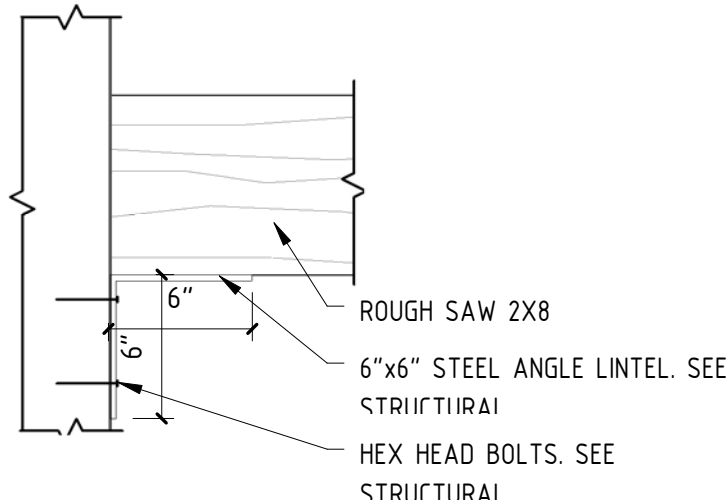
KITCH., BATH  
& HALL INT.  
ELEVS.  
AE202



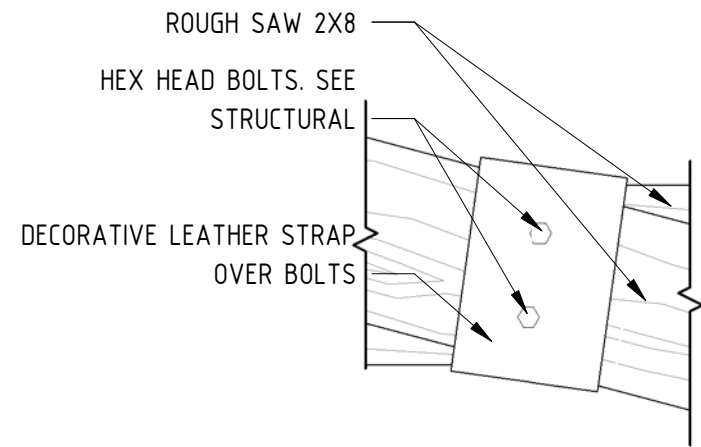
RANGE  
RANGE ARCHITECTURE | DESIGN  
3145 EAST HERMES DRIVE SLC, UT 84124  
WWW.RANGEARCHITECTURE.COM 801.666.9750



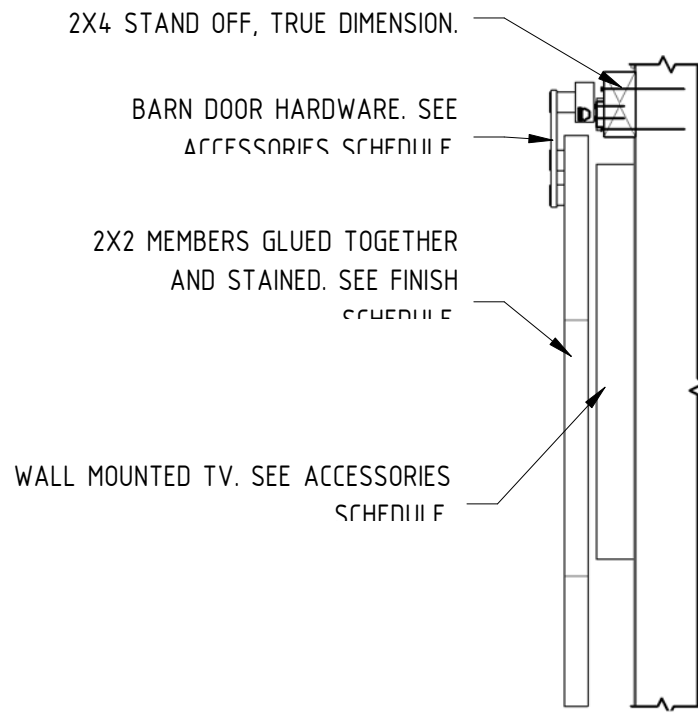
THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN, IMITATION, COMMERCIAL EXPLOITATION, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THE DESIGN OR THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.



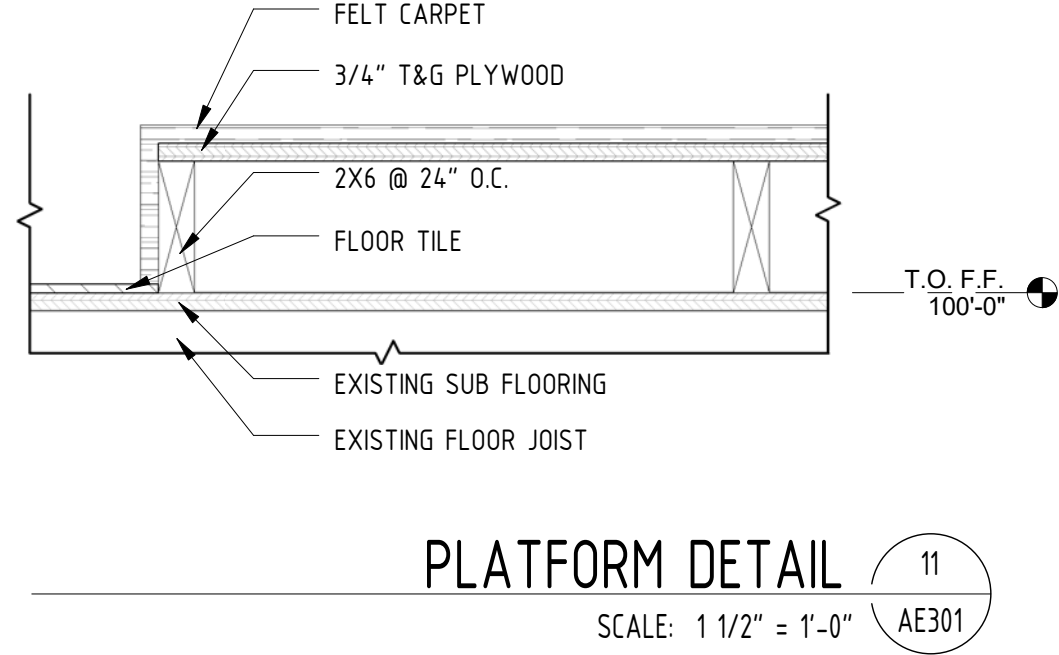
WOOD CONNECTION DETAIL 10  
SCALE: 1 1/2" = 1'-0" AE301



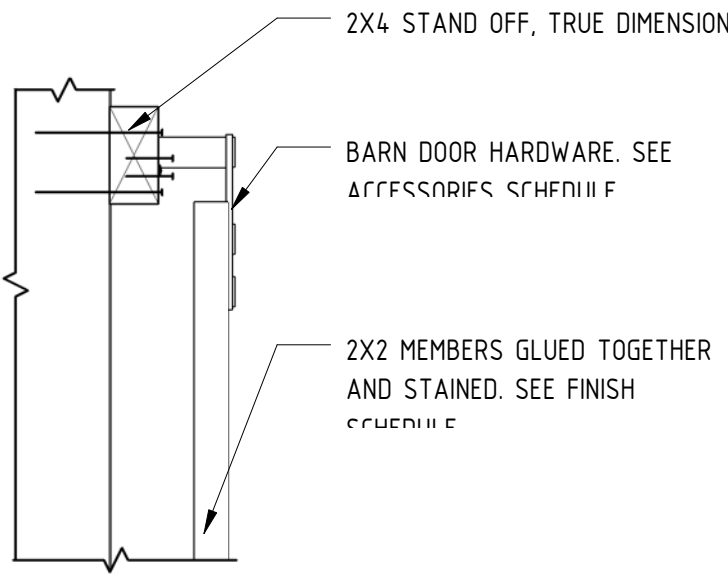
WOOD CONNECTION DETAIL 07  
SCALE: 1 1/2" = 1'-0" AE301



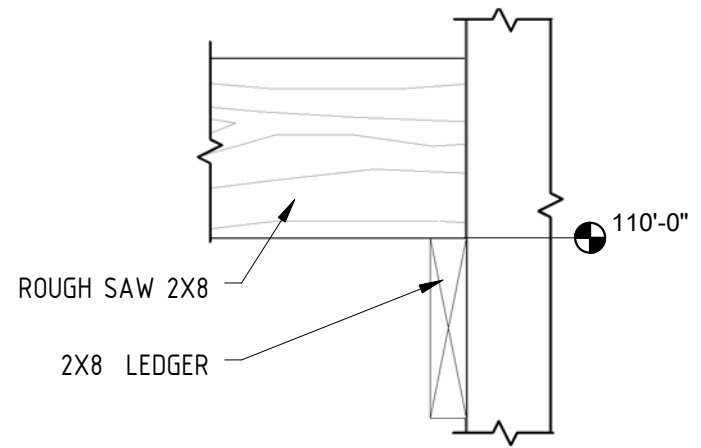
WINDOW SLIDER DETAIL 04  
SCALE: 1" = 1'-0" AE301



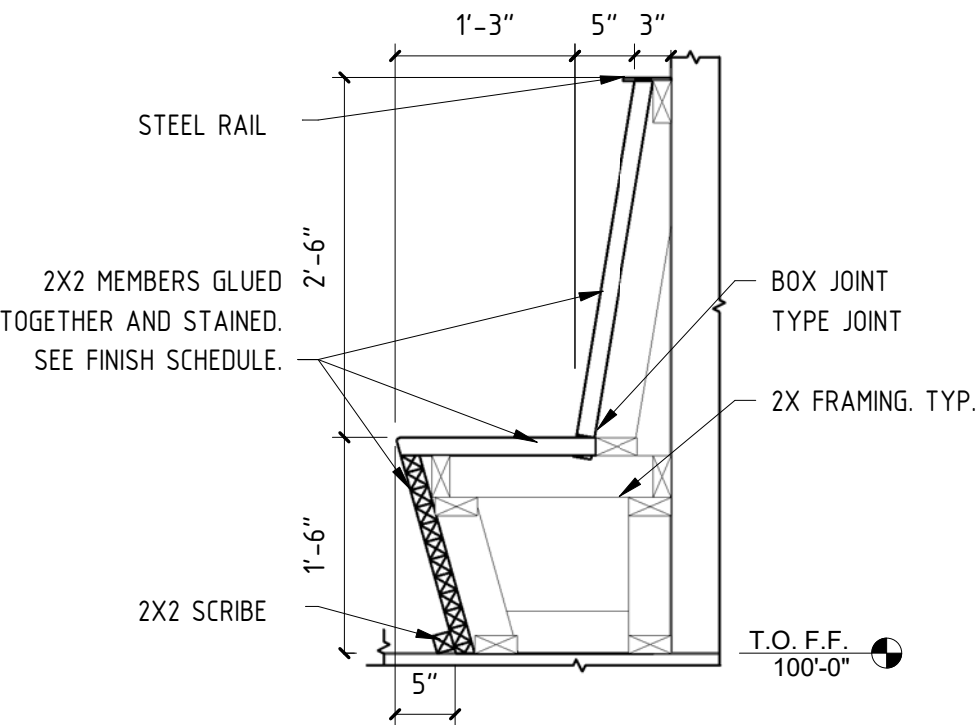
PLATFORM DETAIL 11  
SCALE: 1 1/2" = 1'-0" AE301



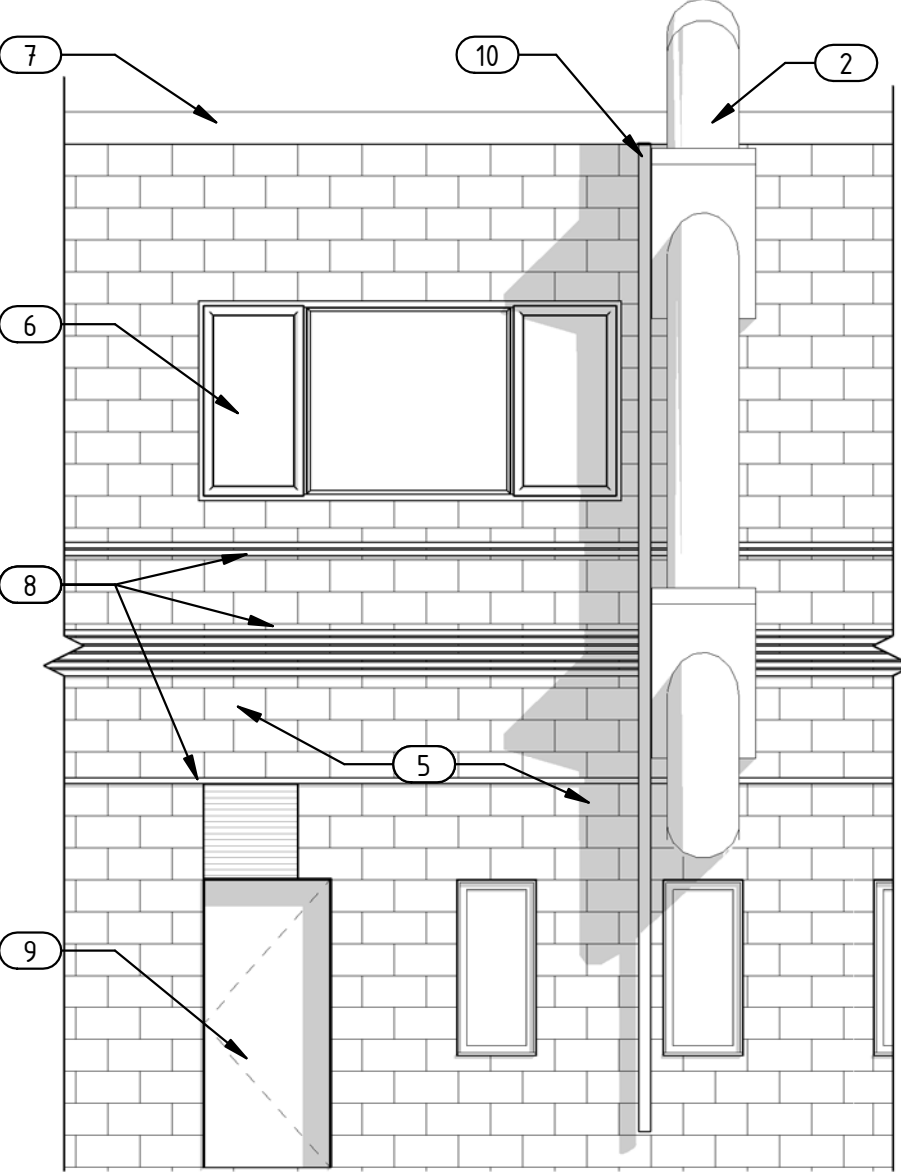
WINDOW SLIDER DETAIL 09  
SCALE: 1 1/2" = 1'-0" AE301



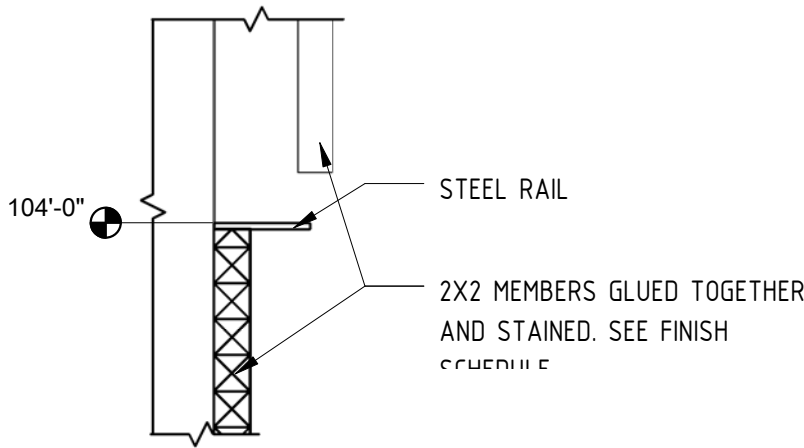
WOOD CONNECTION DETAIL 06  
SCALE: 1 1/2" = 1'-0" AE301



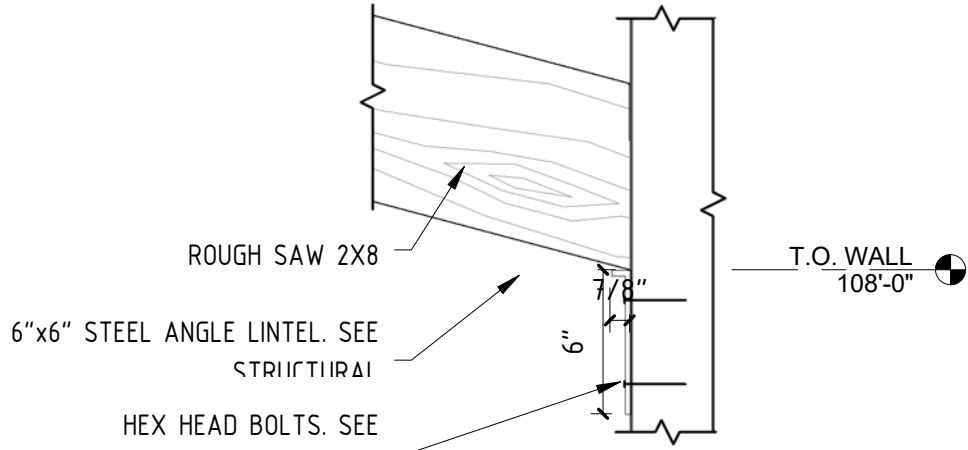
BANQUETTE SEATING DETAIL 03  
SCALE: 3/4" = 1'-0" AE301



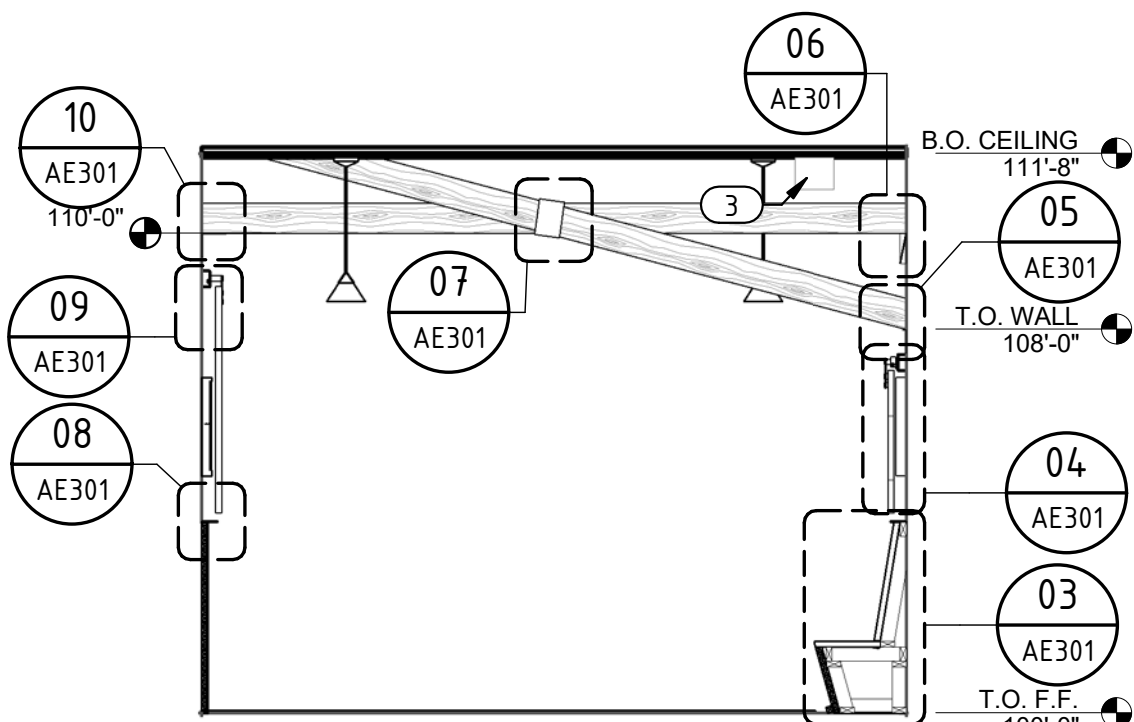
NORTH ELEVATION 02  
SCALE: 1/4" = 1'-0" AE301



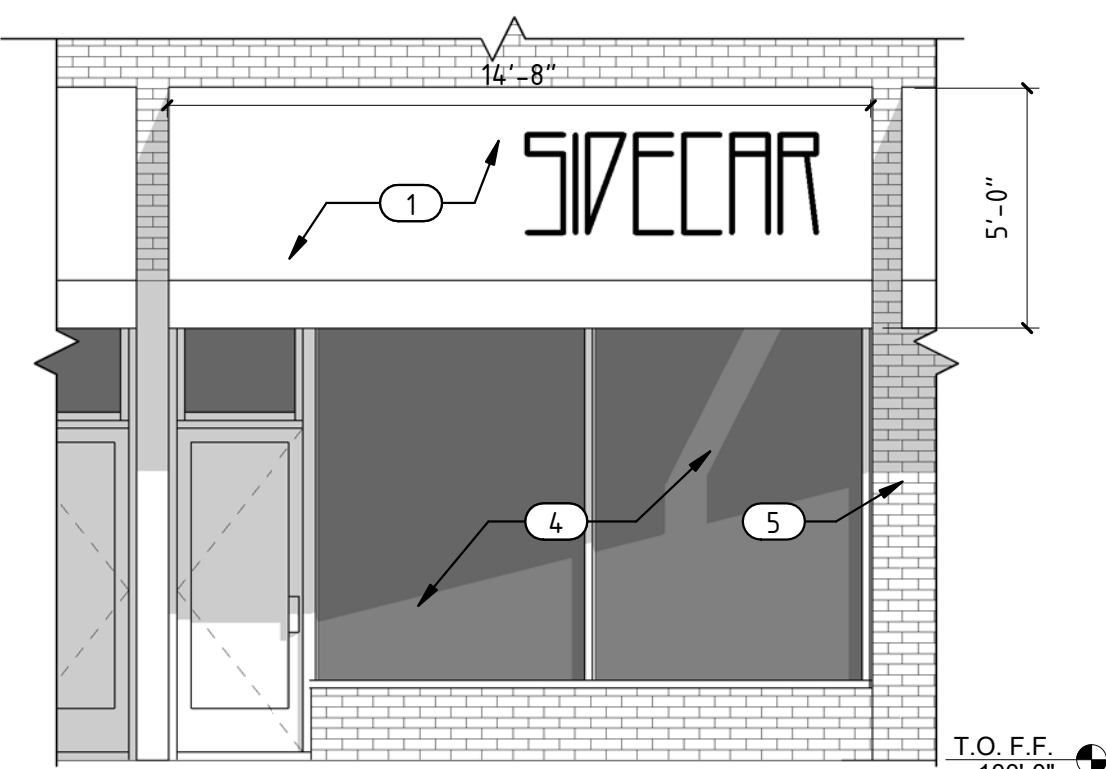
WALL DETAIL 08  
SCALE: 1 1/2" = 1'-0" AE301



WOOD CONNECTION DETAIL 05  
SCALE: 1 1/2" = 1'-0" AE301



SECTION A A  
SCALE: 1/4" = 1'-0" AE301



SOUTH ELEVATION 01  
SCALE: 1/4" = 1'-0" AE301

## GENERALNOTES:

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\*FOR SHEET AE301 ONLY

## KEYED NOTE LEGEND:

- NEW AWNING CANVAS ON EXISTING FRAME. TO MATCH EXISTING AWNINGS. FINAL LOGO DESIGN BY OTHERS.
- EXPOSED GREASE DUCT, SEE MECH & ROOF PLAN.
- EXISTING DUCT WORK. ABOVE WOOD CLOUD.
- EXISTING STOREFRONT SYSTEM TO REMAIN.
- EXISTING MASONARY TO REMAIN. NO WORK.
- EXISTING WINDOW TO REMAIN.
- EXISTING PARAPET WALL TO REMAIN.
- EXISTING CONDUIT TO REMAIN.
- EXISTING DOOR TO REMAIN.
- EXISTING DOWNSPOUT TO REMAIN.

RANGE

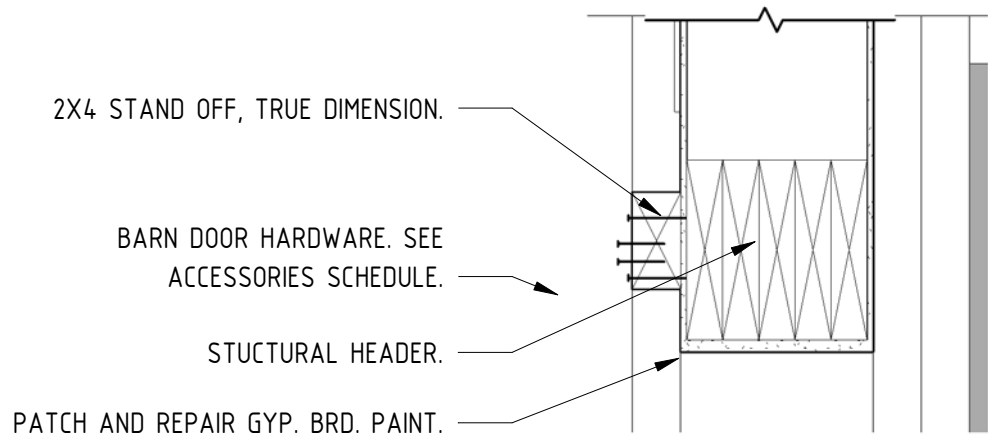


TAVERNACLE EXPANSION  
207 BROADWAY  
SLC, UT 84111

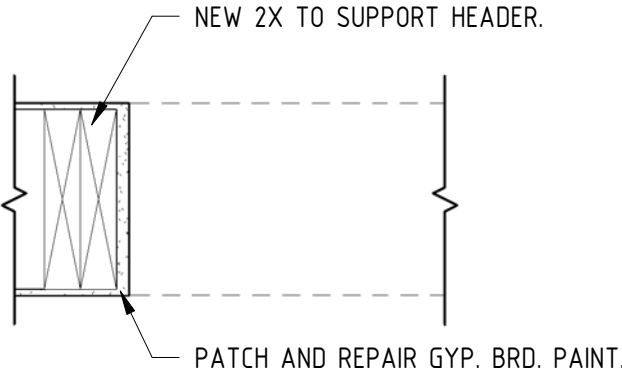
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|-------------|----------|
| REVISIONS   |          |
| PERMIT SET  | 03.15.18 |
| CONFORM SET |          |
|             |          |
|             |          |
|             |          |
| PLOT DATE   | 03.15.18 |
| PROJECT     | 1722     |
| DRAWN BY    | CKG      |
| CHECKED BY  | DW       |
| SHEET TITLE |          |

ELEVATIONS,  
SECTION &  
DET.  
AE301

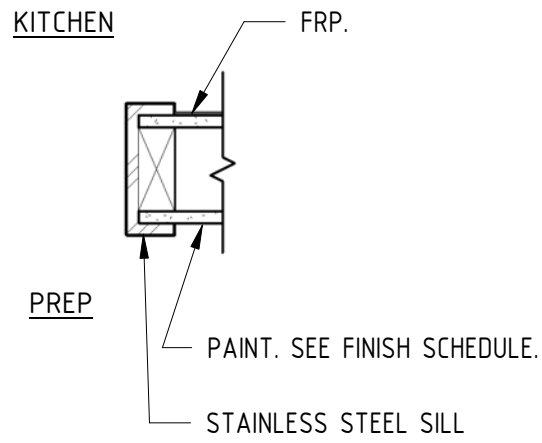




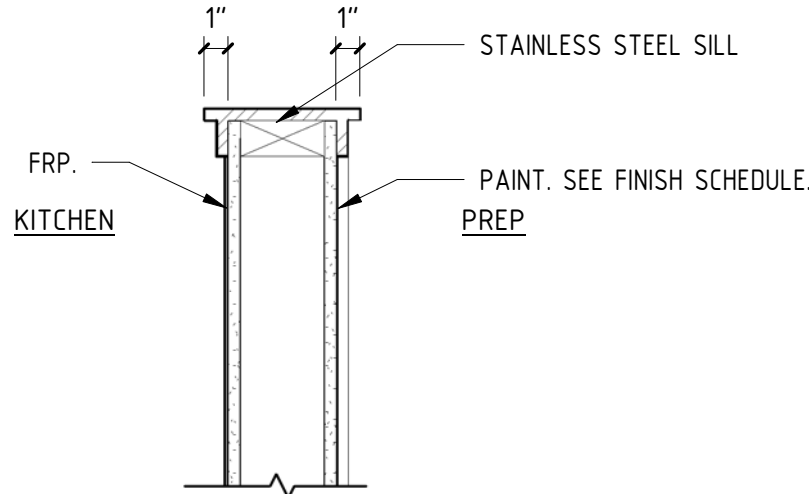
OPENING DETAIL 10  
SCALE: 1 1/2" = 1'-0" AE302



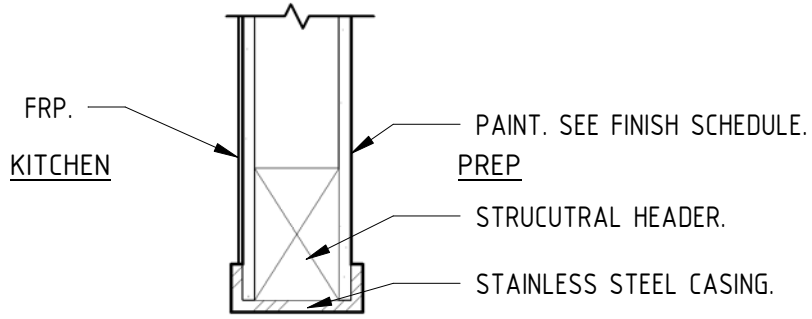
OPENING DETAIL 09  
SCALE: 1 1/2" = 1'-0" AE302



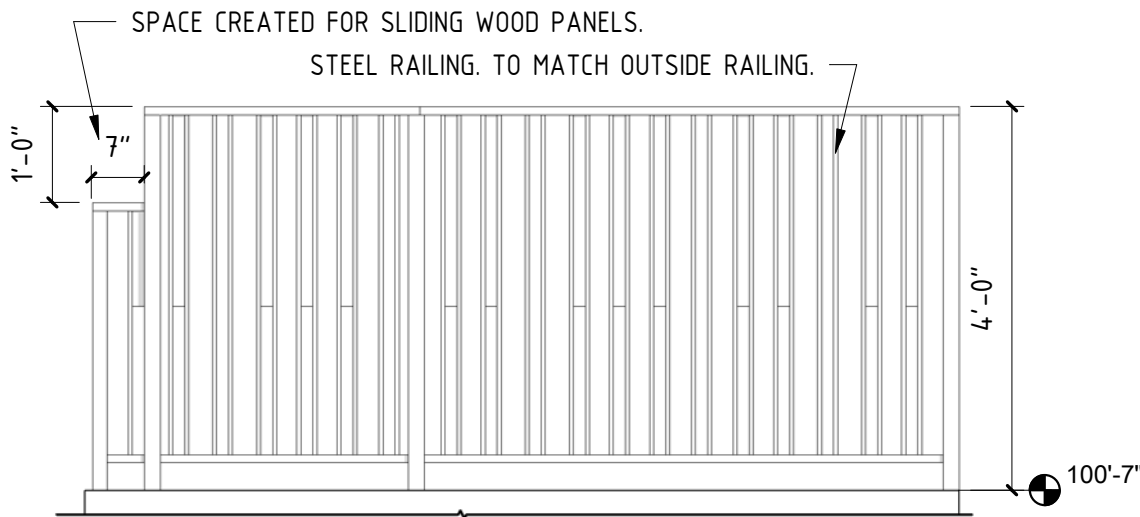
OPENING JAMB DETAIL 08  
SCALE: 1 1/2" = 1'-0" AE302



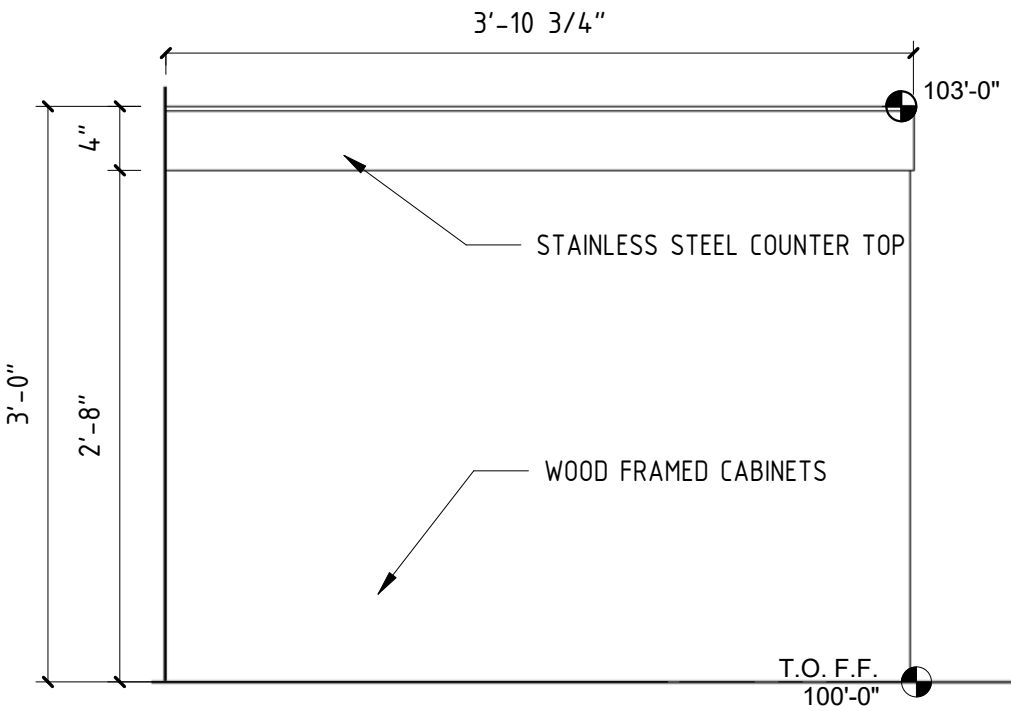
OPENING SILL DETAIL 07  
SCALE: 1 1/2" = 1'-0" AE302



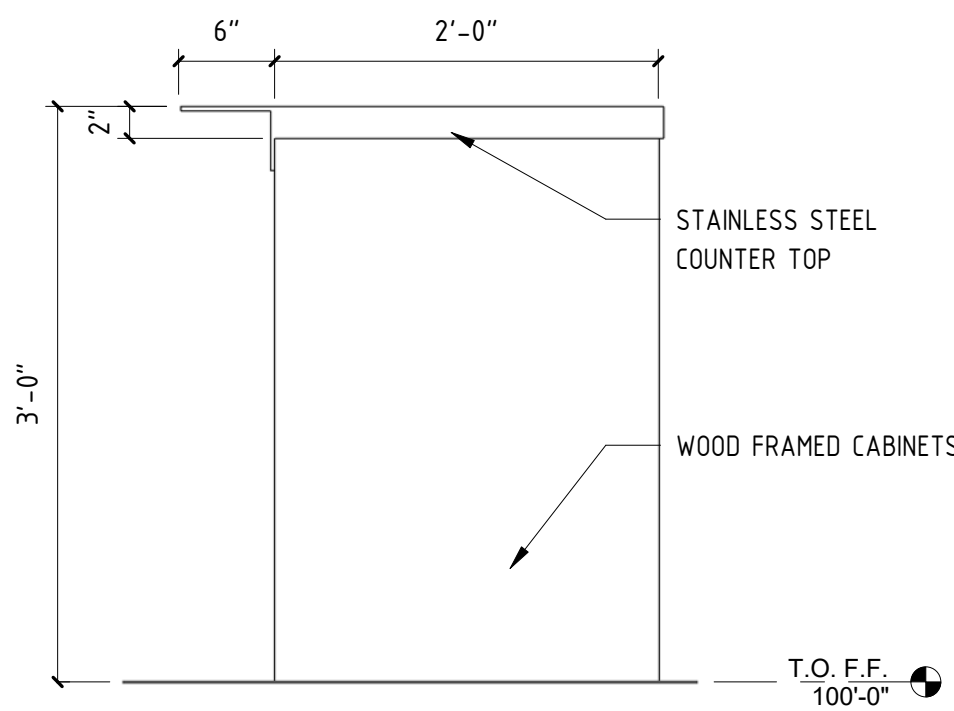
OPENING HEADER DETAIL 06  
SCALE: 1 1/2" = 1'-0" AE302



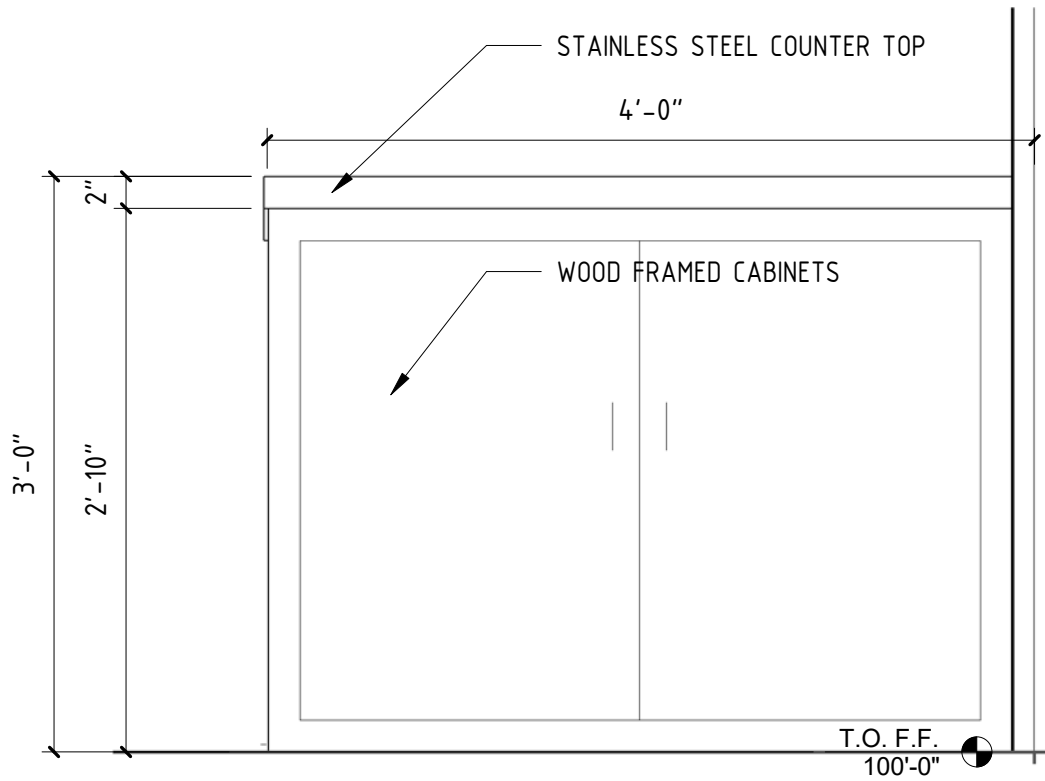
RAILING DETAIL 04  
SCALE: 1/2" = 1'-0" AE302



ORDER COUNTER - NORTH 03  
SCALE: 1" = 1'-0" AE302

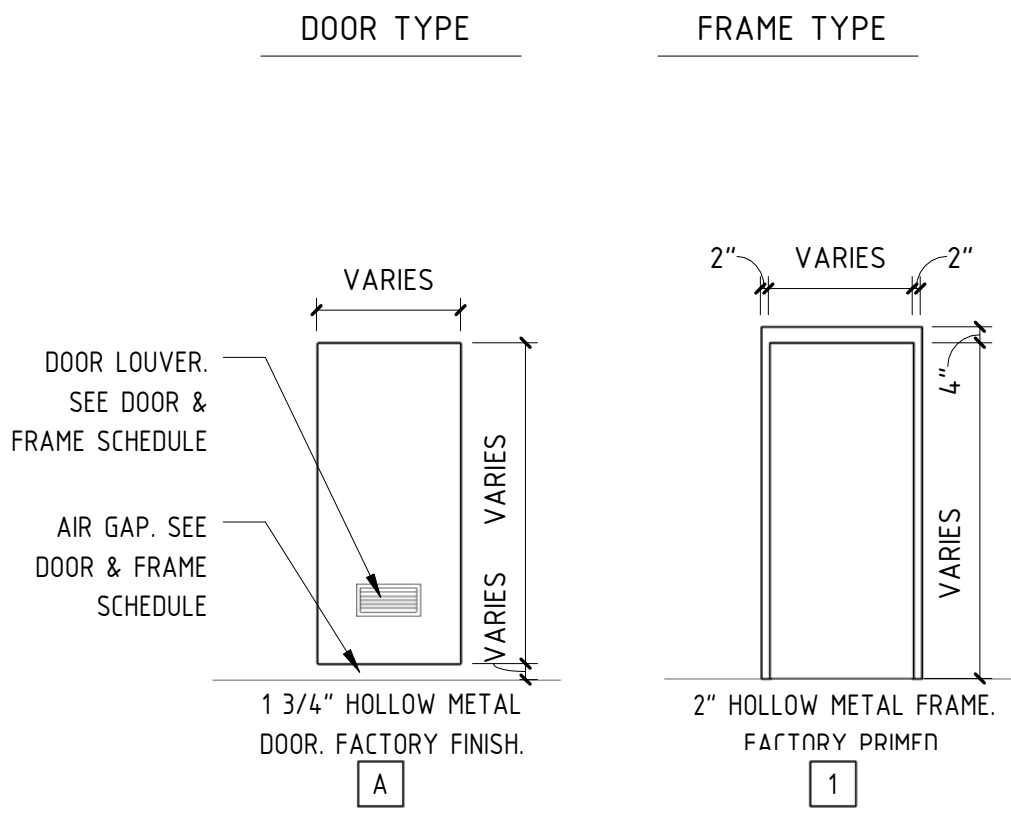


ORDER COUNTER - WEST 02  
SCALE: 1" = 1'-0" AE302



ORDER COUNTER - SOUTH 01  
SCALE: 1" = 1'-0" AE302

| DOOR & FRAME SCHEDULE |           |        |             |      |       |      |          |          |
|-----------------------|-----------|--------|-------------|------|-------|------|----------|----------|
| DOOR NO.              | DOOR SIZE |        | FIRE RATING | DOOR | FRAME | VENT | HARDWARE | COMMENTS |
|                       | WIDTH     | HEIGHT |             | TYPE | TYPE  |      |          |          |
| 101                   | 3'-0"     | 7'-0"  |             | A    | 1     | N/A  |          |          |





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| MECHANICAL LEGEND               |             |             |
|---------------------------------|-------------|-------------|
| RETURN AIR DUCT                 |             |             |
| EXHAUST DUCT                    |             |             |
| SUPPLY AIR DUCT                 |             |             |
| H.E.T. FITTING W/ MYD           |             |             |
| CEILING DIFFUSER                |             |             |
| CEILING EXHAUST GRILLE          |             |             |
| CEILING RETURN GRILLE           |             |             |
| MANUAL VOLUME DAMPER            |             |             |
| THERMOSTAT OR TEMP SENSOR       |             |             |
| HOOD PULL STATION               |             |             |
| POINT OF CONNECTION TO EXISTING |             |             |
| DETAIL TAG                      | DETAIL NO.  | DRAWING NO. |
| KEYED NOTE                      | NOTE NO.    |             |
| SECTION CUT LINE                | SECTION NO. | DRAWING NO. |

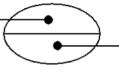
PROJECT GENERAL NOTES

1.  INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL, EQUIPMENT, PIPING OR DUCTWORK.
2. DUCTWORK / PIPING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
3. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW WORK WITH NEW AND EXISTING MECHANICAL, PLUMBING, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
4. CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
5. DUCTWORK SERVING MAU-1 SHALL BE RATED FOR 1" W.C., SEAL CLASS "A".
6. GENERAL EXHAUST DUCT SHALL BE RATED FOR -0.75" W.C., SEAL CLASS "A".
7. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE 2015 INTERNATIONAL EDITIONS OF THE BUILDING CODE, FUEL GAS CODE, MECHANICAL CODE, PLUMBING CODE, AND ENERGY CODE.
8. CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
9. ALL SYSTEMS / THEIR COMPONENTS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO THE FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. BALANCING SHALL BE IN COMPLIANCE WITH AABC OR NEBB - NO EXCEPTIONS.
10. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
11. EACH TRADE IS RESPONSIBLE FOR THEIR OWN FIRE CAULKING.
12. ALL TAKE-OFFS SHALL BE HIGH EFFICIENCY TAKE-OFFS (HETS). NO EXCEPTIONS.
13. ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.
14. CONTRACTOR SHALL SUBMIT TO ENGINEER ALL AS-BUILDS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION.
15. THE MECHANICAL CONTRACTOR IS TO HAVE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH TYPE OF FIRE DAMPER, SMOKE DAMPER, AND COMBO FIRE / SMOKE DAMPERS ON THE JOB SITE AT TIME OF INSPECTIONS.
16. ALL DUCTWORK IS TO BE INSTALLED AS HIGH AS POSSIBLE. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.
17.  INDICATES EXISTING OR FUTURE.  INDICATES NEW MATERIAL. IF THERE ARE ANY DISCREPANCIES AS TO WHAT IS NEW AND WHAT IS EXISTING, CONTRACTOR IS TO CONTACT THE ARCHITECT AND/OR MECHANICAL ENGINEER.
18. CONTRACTOR SHALL REPLACE ALL EXISTING HVAC FILTERS WITH NEW MERV 8 FILTERS PRIOR TO BEGINNING WORK AND PRIOR TO SUBSTANTIAL COMPLETION. M.C. SHALL FIELD VERIFY EXISTING SIZES AND QUANTITIES.
19. DUCT DESIGN IS IN CONFORMANCE WITH THE 2015 IECC, ASHRAE 183, AND ASHRAE HANDBOOK OF FUNDAMENTALS. ANY CHANGES TO DESIGN MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
20. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT.
21. GENERAL EXHAUST DUCTS / FANS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS.
22. CONTRACTOR SHALL PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILS OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES / WARRANTIES FOR EACH NEW SYSTEM.
23. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO JOB COMPLETION.
24. ALL GAS REGULATORS ARE TO BE VENTLESS. PETRO PRESSURE REGULATORS OR EQUIVALENT.
25. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
26. PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
27. CONTRACTOR SHALL REMOVE ALL UNUSED PIPING, DUCT WORK, AND COMPONENTS FROM WALLS / CEILINGS.
28. DUCTWORK SHALL BE INSULATED AS FOLLOWS:

|                       |                  |         |
|-----------------------|------------------|---------|
|                       | LINED OR WRAPPED | R-VALUE |
| ROUND DUCTWORK:       | WRAPPED          | R-6     |
| RECTANGULAR DUCTWORK: | LINED            | R-6     |

| ELECTRIC WATER HEATER SCHEDULE EWH- |           |            |                   |                |            |              |              |           |                          |                                                                     |
|-------------------------------------|-----------|------------|-------------------|----------------|------------|--------------|--------------|-----------|--------------------------|---------------------------------------------------------------------|
| PLAN CODE                           | CAP (GAL) | INPUT (KW) | RECOVERY (GAL/HR) | TEMP RISE (°F) | DIMENSIONS |              |              | OPER. WT. | MANUFACTURER & MODEL NO. | REMARKS                                                             |
|                                     |           |            |                   |                | DIA. (IN.) | HEIGHT (IN.) | VOLT & PHASE |           |                          |                                                                     |
| EWH-1                               | 50        | 4.5        | 18                | 100            | 22"        | 47.5"        | 240/1        | 545       | BRADFORD WHITE LE250S3-3 | PROV. 1 GAL EXP. TANK, SEISMIC RESTRAINTS, AND A HOUSE KEEPING PAD. |

| NATURAL GAS CALCULATIONS  |                   |             |            |      |
|---------------------------|-------------------|-------------|------------|------|
| DESCRIPTION               | NEW / EXIST       | AREA SERVED | INPUT MBH  | CFH  |
| F-1                       | EXIST - RELOCATED | DINING      | 80         | 90   |
| MAU-1                     | NEW               | HOOD #1     | 253.5      | 285  |
| FRYER                     | NEW               | HOOD #1     | 90         | 101  |
| FRYER                     | NEW               | HOOD #1     | 90         | 101  |
| FRYER                     | FUTURE            | HOOD #1     | 90         | 101  |
| RANGE                     | NEW               | HOOD #1     | 260        | 292  |
| CHARBROILER               | NEW               | HOOD #1     | 40         | 45   |
| TOTAL                     |                   |             | 903.5      | 1015 |
| HEATING VALUE             |                   |             | 890        |      |
| LENGTH OF RUN             |                   |             | 150'       |      |
| LINE SIZE                 |                   |             | 1" (EXIST) |      |
| EXISTING PRESSURE         |                   |             | 4 OZ.      |      |
| NEW PRESSURE              |                   |             | 2 LB.      |      |
| METER CAPACITY REQUEST    |                   |             | 1,250 CFH  |      |
| 2015 IFGC TABLE 402.4 (9) |                   |             |            |      |

| DIFFUSERS & GRILLE SCHEDULE |                        |           |               |                |          |                          |  | GRILLE NUMBER                                                                                                                             |  | GRILLE CFM |
|-----------------------------|------------------------|-----------|---------------|----------------|----------|--------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
| PLAN CODE                   | TYPE & DUTY            | NECK SIZE | MOUNTING TYPE | N.C. LEVEL MAX | MAX. CFM | MANUFACTURER & MODEL NO. |  | REMARKS                                                                                                                                   |                                                                                     |            |
| 1                           | 12" X 6" SIDEWALL      | N/A       | SIDEWALL      | 23             | 312      | PRICE SDG SERIES         |  | STEEL CONSTRUCTION. PRIMED FOR ON-SITE PAINT. GASKETED CONNECTION TO DUCT. DOUBLE DEFLECTION. SET TO 22 DEGREES.                          |                                                                                     |            |
| 2                           | 12" X 24" PERF. RETURN | 10" X 22" | SEE ARCH.     | 20             | 917      | PRICE PDR SERIES         |  | STEEL CONSTRUCTION. PRIMED FOR ON-SITE PAINT. PROVIDE W/ OBD AND TRANSITION TO ROUND DUCT.                                                |                                                                                     |            |
| 3                           | 24" X 24" SQ. SUPPLY   | 12"Ø      | LAY-IN        | 29             | 707      | PRICE SPD SERIES         |  | PROVIDE ADAPTOR. ROUND DUCT CONNECTION, AND OBD AS APPLICABLE                                                                             |                                                                                     |            |
| 4                           | 48" X 6" LINEAR BAR    | N/A       | SIDEWALL      | 28             | 275/FT   | PRICE LBP 15B SERIES     |  | ALUMINUM CONSTRUCTION. PRIMED FOR ON-SITE PAINT. NO DEFLECTION, FIXED CORE. COLOR BY ARCH. PROVIDE OBD. CENTER OVER OPENING INTO KITCHEN. |                                                                                     |            |
| 5                           | 36" X 6" LINEAR BAR    | N/A       | SIDEWALL      | 19             | 175/FT   | PRICE LBP 15B SERIES     |  | ALUMINUM CONSTRUCTION. PRIMED FOR ON-SITE PAINT. NO DEFLECTION, FIXED CORE. COLOR BY ARCH. PROVIDE OBD. CENTER ON WALL.                   |                                                                                     |            |

| COOLING COIL SCHEDULE (CC) |                       |                    |                |        |       |                 |                      |             |                   |      |     |                                |                          |                                                                                                                                                                                                                      |
|----------------------------|-----------------------|--------------------|----------------|--------|-------|-----------------|----------------------|-------------|-------------------|------|-----|--------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PLAN CODE                  | AREA OR SYSTEM SERVED | CFM @ ELEV. (EACH) | CAPACITY (MBH) |        |       | MAX. F.V. (FPM) | AIR SIDE (EACH COIL) |             |                   | ROWS | FPI | COIL FACE DIMENSIONS (FH X FD) | MANUFACTURER & MODEL NO. | REMARKS                                                                                                                                                                                                              |
|                            |                       |                    | SENS.          | LATENT | TOTAL |                 | EAT DB / WB          | LAT DB / WB | AIR P.D. (IN. WG) |      |     |                                |                          |                                                                                                                                                                                                                      |
| CC-1                       | RELOCATED FURNACE     | 1,200              | 24             | EXIST  | EXIST | 360             | 80 / 67              | 55 / -      | 0.17              | 2    | 14  | 19.125" X 20"                  | YORK CM36C               | 1. RELOCATE FURNACE, SAFETY PAN, HIGH WATER LIMIT SENSOR<br>2. P.C. SHALL DISCONNECT / RECONNECT CONDENSATE PIPING.<br>3. M.C. SHALL PROVIDE / INSTALL NEW DIGITAL 7 DAY PROGRAMMABLE THERMOSTAT W/ AUTO-CHANGEOVER. |

| INTAKE LOUVER SCHEDULE - M.C. PROVIDED |               |               |           |          |             |                                                                                                                                                                        |
|----------------------------------------|---------------|---------------|-----------|----------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FIXTURE TAG                            | DESCRIPTION   | SYSTEM SERVED | TOTAL CFM | VELOCITY | AIR P.D.    | SPECIFICATIONS                                                                                                                                                         |
| L-1                                    | INTAKE LOUVER | MAU / FURNACE | 2,800     | 576 FPM  | 0.12 " W.C. | MISTEK: AIR BALANCE MODEL A850. 8" DEEP. CHEVRON DRAIN BLADE. RAIN RESISTANT. ALUMINUM CONSTRUCTION. PROVIDE W/ BIRDSCREEN. FACTORY PRIMED FOR FIELD PAINT. BY OTHERS. |

RANGE

RANGE ARCHITECTURE | DESIGN  
3115 EAST HERMES DRIVE SLC, UT 84114  
WWW.RANGEARCHITECTURE.COM 801.565.5750



03/19/2018

TAVERNACLE EXPANSION

207 BROADWAY

SLC, UT 84111

|             |              |
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| PERMIT SET  |              |
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| PROJECT     | PVE 17211.00 |
| DRAWN BY    | TJE          |
| CHECKED BY  | BNS          |
| SHEET TITLE |              |

MECHANICAL SCHEDULES

M0.1



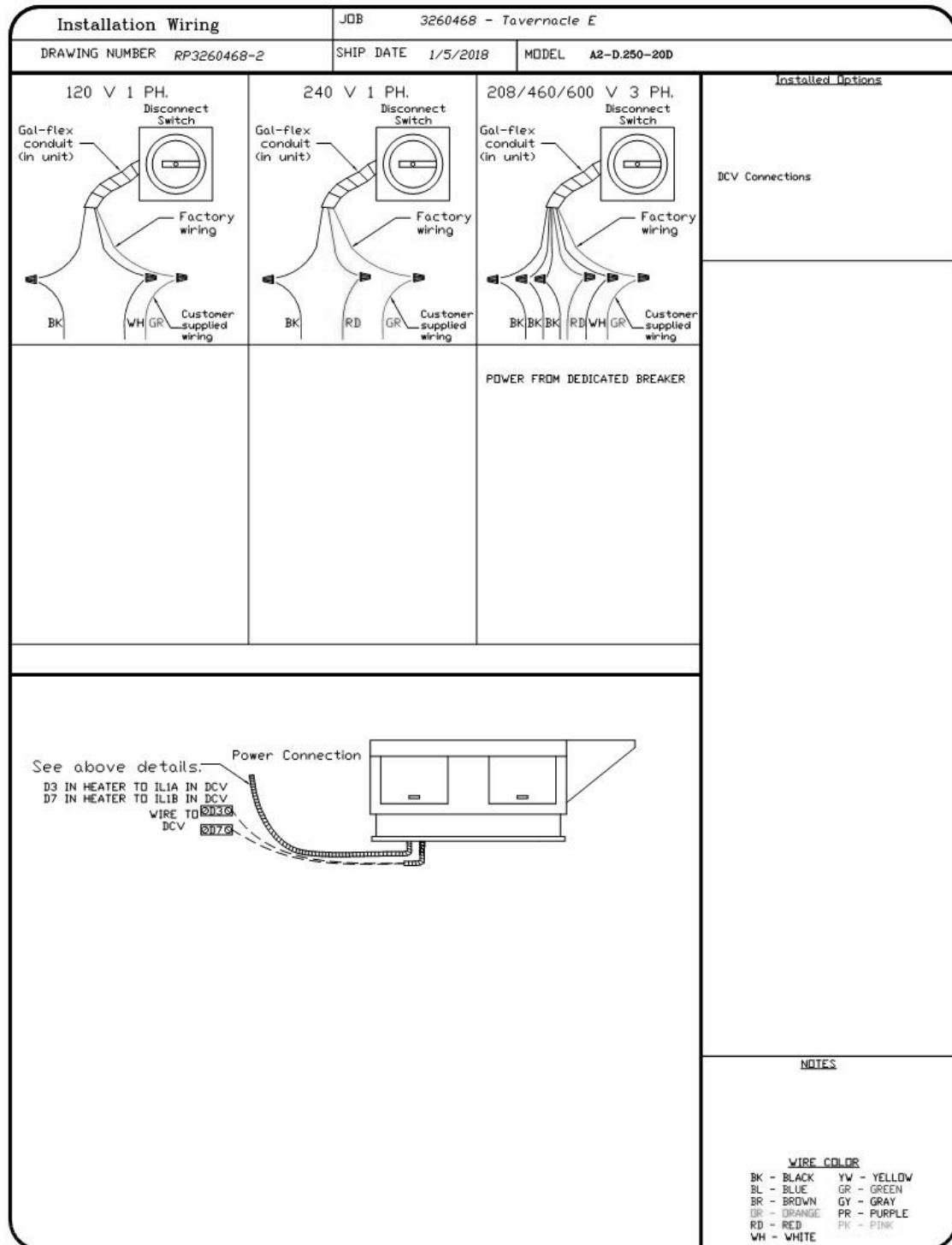
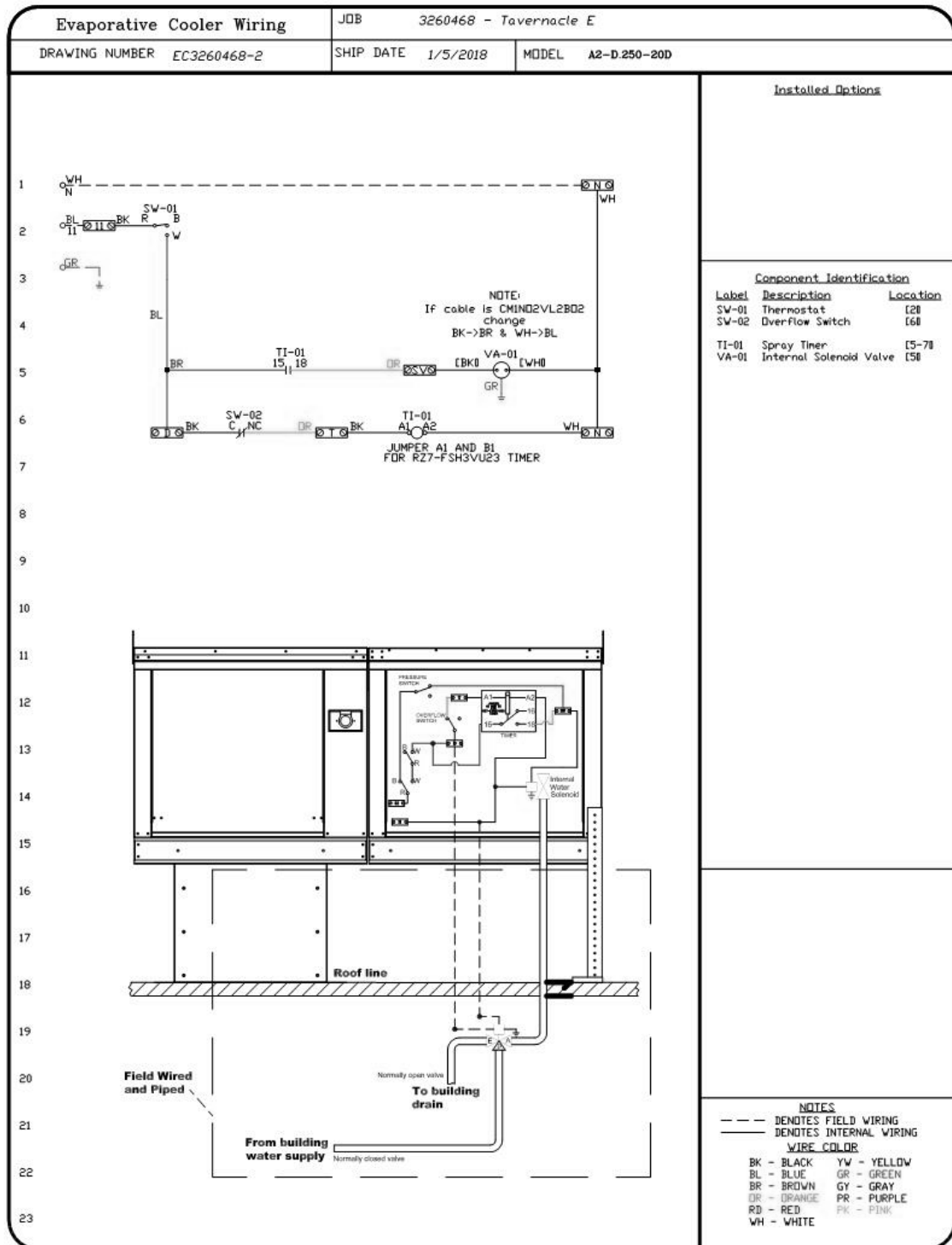
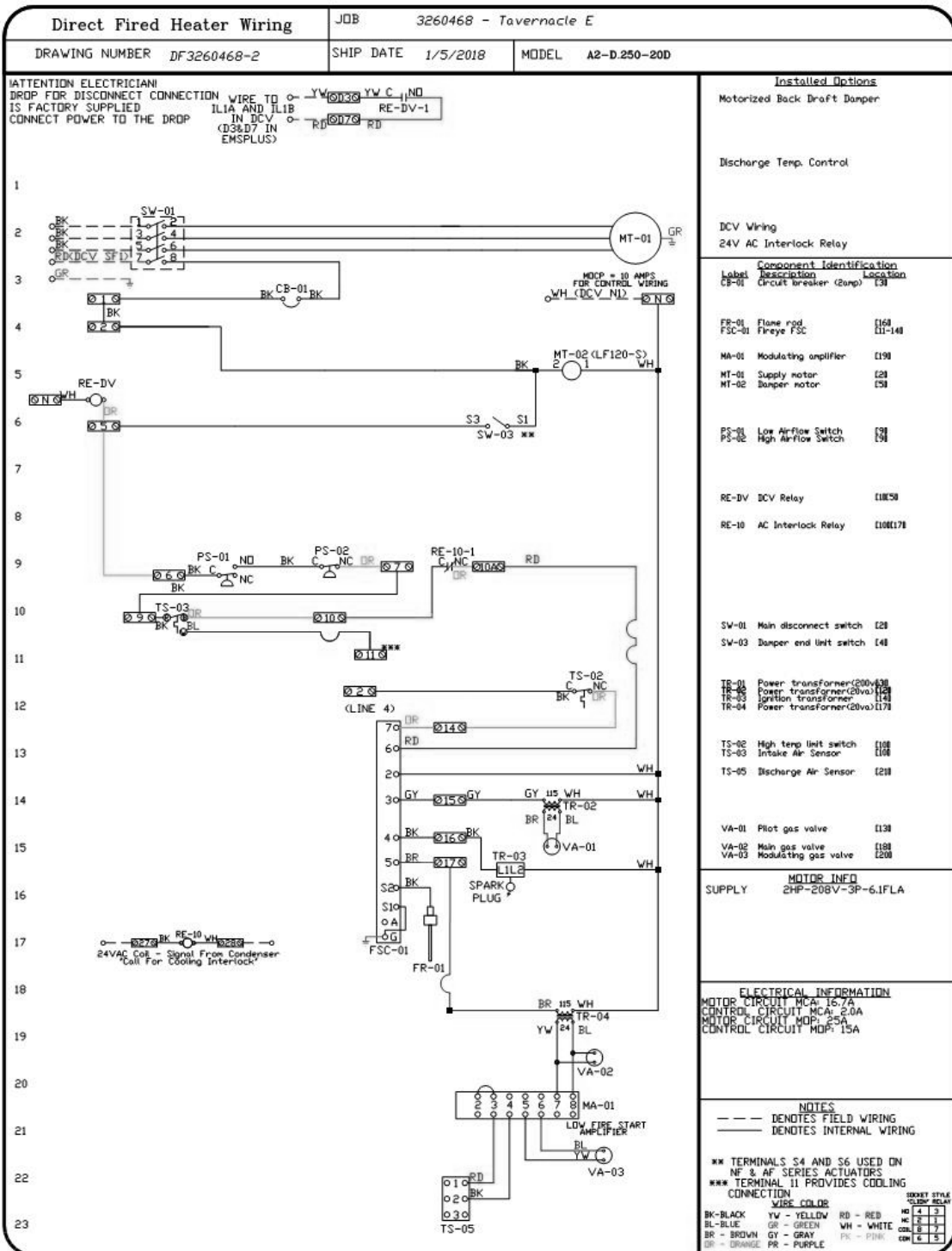
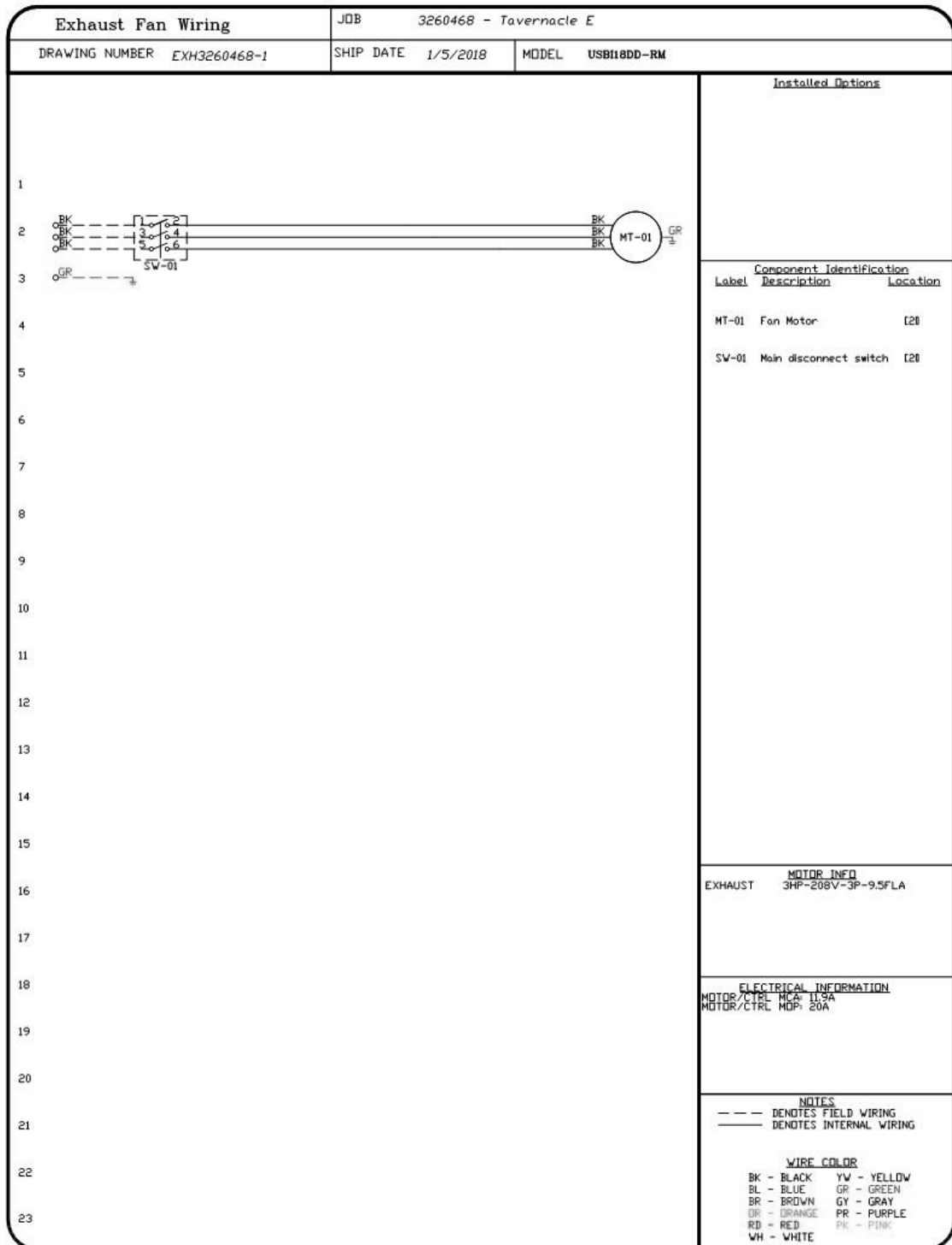








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**CAPTIVE AIR**

www.captiveair.com

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 SALT LAKE CITY, UT, 84111

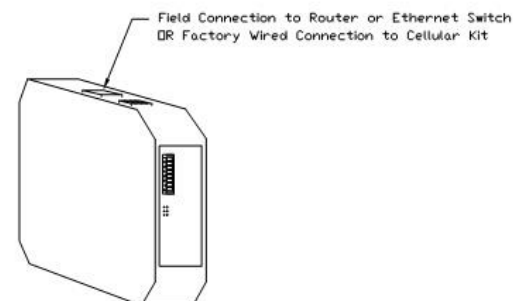
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| <b>DATE:</b> 1/5/2018     |
| <b>DWG.#:</b><br>3260468  |
| <b>DRAWN BY:</b> stevesch |
|                           |
| <b>MASTER DRAWING</b>     |
|                           |
| <b>SHEET NO.</b><br>3     |

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ELECTRICAL PACKAGES – Job#3260468

| NO. | TAG | PACKAGE # | LOCATION             | SWITCHES                  |          | OPTION             | FANS CONTROLLED |        |           |
|-----|-----|-----------|----------------------|---------------------------|----------|--------------------|-----------------|--------|-----------|
|     |     |           |                      | LOCATION                  | QUANTITY |                    | TYPE            | HP     | VOLTS FLA |
| 1   |     | DCV-1111  | Utility Cabinet Left | 03 – Utility Cabinet Left | 1 Light  | Smart Controls DCV | Exhaust         | 3 3000 | 208 9.5   |
|     |     |           |                      | Hood # 1                  | 1 Fan    |                    | Supply          | 3 2000 | 208 6.1   |



CASLink Monitor and Control

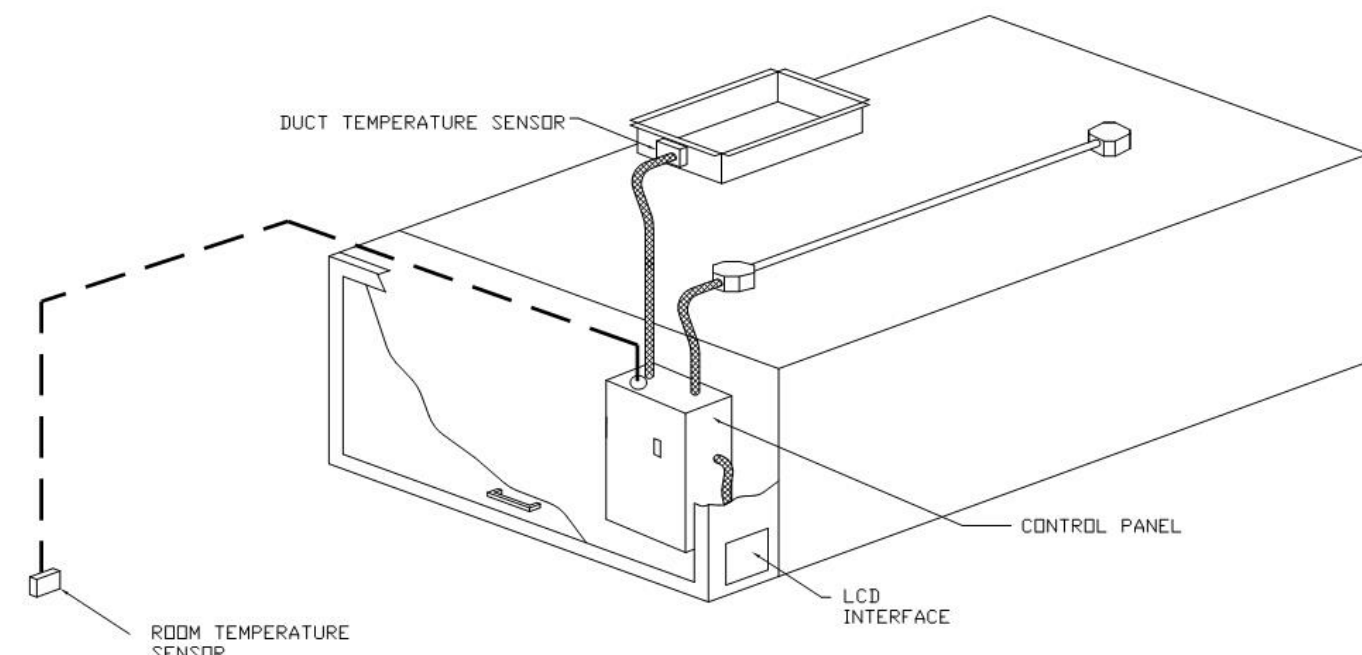
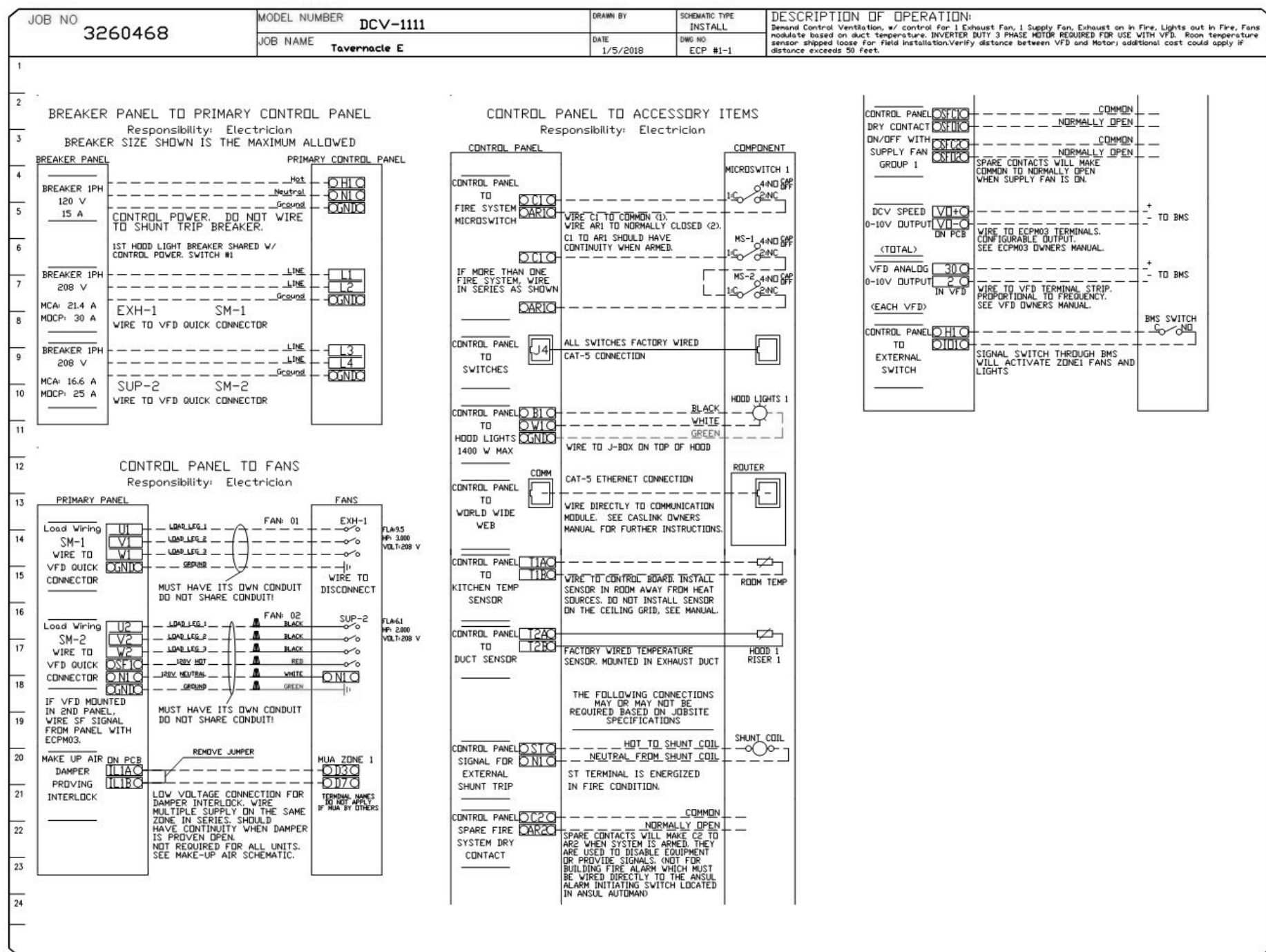
- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood control panel to allow remote changes to system setting such as VFD Frequencies, ECM speeds, temperature set points, fan and wash schedules, etc.

MONITORING AND CONTROL POINTS LIST

| DCV Packages                      | Function          | SC Packages                       | Function          |
|-----------------------------------|-------------------|-----------------------------------|-------------------|
| Room Temperature                  | MONITOR           | Room Temperature(s)               | MONITOR           |
| Duct Temperature(s)               | MONITOR           | Duct Temperature(s)               | MONITOR           |
| MUA Discharge Temperature         | MONITOR           | MUA Discharge Temperature         | MONITOR           |
| Kitchen RTU Discharge Temperature | MONITOR           | Kitchen RTU Discharge Temperature | MONITOR           |
| Fan Speed                         | MONITOR           | Controller Faults                 | MONITOR           |
| Fan Amperage                      | MONITOR           | Fan Faults                        | MONITOR           |
| Fan Power                         | MONITOR           | Fan Status                        | MONITOR           |
| VFD Faults                        | MONITOR           | PCU Faults                        | MONITOR           |
| Controller Faults                 | MONITOR           | PCU Filter Clap Percentages       | MONITOR           |
| Fan Status                        | MONITOR           | Fan Condition                     | MONITOR           |
| PCU Status                        | MONITOR           | Core Fina System                  | MONITOR           |
| PCU Filter Clap Percentages       | MONITOR           | Building Pressures                | MONITOR           |
| Fan Condition                     | MONITOR           | Fans Buttons(s)                   | MONITOR & CONTROL |
| Core Fina System                  | MONITOR           | Lights Buttons(s)                 | MONITOR & CONTROL |
| Building Pressures                | MONITOR           | Wash Button                       | MONITOR & CONTROL |
| Prep The Button                   | MONITOR & CONTROL |                                   |                   |
| Fans Button                       | MONITOR & CONTROL |                                   |                   |
| Lights Button                     | MONITOR & CONTROL |                                   |                   |
| Wash Button                       | MONITOR & CONTROL |                                   |                   |

Demand Control Ventilation Hood Control Panel Specifications:

- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system turndown requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 5.7.1.1.
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set as required to meet minimum ventilation requirements.
- An internal algorithm to the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS Fan control via Dry Contact (external control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
  - a. On/Off push button fan & light switch activation
  - b. Integrated gas valve reset for electronic gas valves (no reset relay required)
  - c. VFD Fault display with audible & visual alarm notification
  - d. Duct temperature sensor failure detection with audible & visual alarm notification
  - e. Mis-wired duct temperature sensor detection with audible & visual alarm notification
  - f. A single low voltage Cat-5 RJ45 wiring connection
  - g. An energy savings indicator that utilizes measured kWh from the VFDs



TYPICAL HOOD CONTROL PANEL INSTALLATION

Sequence of Operations:

- The hood control panel is capable of operating in one or more of the following states at any given time:
  - **Automatic:** The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as 'dynamic', these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as 'static', fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.
  - **Manual:** The system operates based on human input from an HMI.
  - **Schedule:** A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
  - **Other:** The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)

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Tavernacle E

SALT LAKE CITY, UT, 84111

DATE: 1/5/2018

DWG.#: 3260468

DRAWN BY: stevesch

MASTER DRAWING

SHEET NO. 4

TAVERNACLE EXPANSION  
207 BROADWAY  
SLC, UT 84111

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PROJECT PVE 1721:00

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CHECKED BY BNS

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RANGE

RANGE ARCHITECTURE | DESIGN  
3115 EAST HERMES DRIVE SLC, UT 84143  
WWW.RANGEARCHITECTURE.COM 801.665.9750





DuctWork #1 Parts - Job#3260468

| Tag                          | Part #                    | CFM  | S.P.    | Weight  | Velocity | QTY | Description                                                                                                                                                                                                                                               |
|------------------------------|---------------------------|------|---------|---------|----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1 (SEALED)                  | DW1690DWASY-3Z-S          | 2720 | -01995  | 49.72   | 1948.06  | 1   | Double Wall Duct - 16" Inner 90 Duct - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                                         |
| P2 (SEALED)                  | DW1602DWOFFSETASY-3Z-S    | 2720 | -0.004  | 17.92   | 1948.06  | 1   | Double Wall Duct - 16" Inner Duct Riser & 2 Degree Offset - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                    |
| P3 (SEALED)                  | DW1647DWLT-3Z-S           | 2720 | -0.023  | 94.90   | 1948.06  | 1   | Double Wall Duct - 16" Inner Duct, 47' long - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                                  |
| P4 (SEALED)                  | DW1647DWAJD-3Z-S          | 2720 | -0.022  | 134.78  | 1948.06  | 1   | Double Wall Adjustable Duct - 16" Inner Duct, 47' long - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell. Min Length = 18' / Max Length = 48.5' / Adjustment = 30.5' / Adjustable Section May Need To Be Cut.                                   |
| P5                           | DW2226SAD                 |      |         | 5.79    |          | 1   | Duct - Horizontal Saddle Support, Used With 22" DD - Includes Uni-Strut Cut To Length, 12 Grade 5 Hex Nuts, 8 Grade 8 Washers.                                                                                                                            |
| P6 (SEALED) Assembled w/P7   | DW1616DWEASY-3Z-S         | 2720 | -01368  | 60.50   | 1948.06  | 1   | Double Wall Duct - 16" Inner Tee Duct - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                                        |
| P7 (SEALED) Assembled w/P6   | DW1616DWACCDORCDV-3Z-S    |      |         | 17.00   |          | 1   | Double Wall Duct - 16" Inner Access Door & 22" Access Door Cover With Clamps - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                 |
| P8 (SEALED)                  | DW1602DWOFFSETASY-3Z-S    | 2720 | -0.004  | 17.92   | 1948.06  | 1   | Double Wall Duct - 16" Inner Duct Riser & 2 Degree Offset - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                    |
| P9 (SEALED)                  | DW1647DWLT-3Z-S           | 2720 | -0.0233 | 94.90   | 1948.06  | 1   | Double Wall Duct - 16" Inner Duct, 47' long - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                                  |
| P10 (SEALED)                 | DW1647DWLT-3Z-S           | 2720 | -0.0233 | 94.90   | 1948.06  | 1   | Double Wall Duct - 16" Inner Duct, 47' long - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                                  |
| P11 (SEALED)                 | DW1647DWLT-3Z-S           | 2720 | -0.0233 | 94.90   | 1948.06  | 1   | Double Wall Duct - 16" Inner Duct, 47' long - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                                  |
| P12 (SEALED)                 | DW1647DWAJD-3Z-S          | 2720 | -0.0171 | 134.78  | 1948.06  | 1   | Double Wall Adjustable Duct - 16" Inner Duct, 47' long - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell. Min Length = 18' / Max Length = 48.5' / Adjustment = 30.5' / Adjustable Section May Need To Be Cut.                                   |
| P13                          | DW22DWVESU                |      |         | 112.00  |          | 1   | Double Wall Duct Vertical Support Assembly, 22" Shell, For Reduced and Zero Clearance. Parts are Zinc Coated. Mounting hardware sold separately Per Wall Construction - See DWVESU-HARDWARE-X - CM = Concrete/Masonry - W = Wood Studs - S = Steel Studs. |
| P14                          | DW22DWVESU                |      |         | 112.00  |          | 1   | Double Wall Duct Vertical Support Assembly, 22" Shell, For Reduced and Zero Clearance. Parts are Zinc Coated. Mounting hardware sold separately Per Wall Construction - See DWVESU-HARDWARE-X - CM = Concrete/Masonry - W = Wood Studs - S = Steel Studs. |
| P15 (SEALED)                 | DW1602DWOFFSETASY-3Z-S    | 2720 | -0.004  | 17.92   | 1948.06  | 1   | Double Wall Duct - 16" Inner Duct Riser & 2 Degree Offset - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                    |
| P16 (SEALED) Assembled w/P17 | DW1616DWEASY-3Z-S         | 2720 | -0.114  | 60.50   | 1948.06  | 1   | Double Wall Duct - 16" Inner Tee Duct - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                                                        |
| P17 (SEALED) Assembled w/P16 | DW1616DWACCDORCDV-3Z-S    |      |         | 17.00   |          | 1   | Double Wall Duct - 16" Inner Access Door & 22" Access Door Cover With Clamps - 3 Layers Zero Clearance - 22" Stainless Steel Outer Shell.                                                                                                                 |
| P18 (SEALED)                 | DW1620DWRNDADPEC3ASY-3Z-S | 2720 | -0.038  | 31.18   | 1948.06  | 1   | Double Wall Duct - 16" X 20" RNDRND Eccentric Adapter - 3 Layers Zero Clearance - 22" X 26" Stainless Steel Outer Shell.                                                                                                                                  |
| P19 (SEALED)                 | DW2047DWLT-3Z-S           | 2720 | -0.0057 | 105.00  | 1246.76  | 1   | Double Wall Duct - 20" Inner Duct, 47' long - 3 Layers Zero Clearance - 26" Stainless Steel Outer Shell.                                                                                                                                                  |
| P20 (SEALED)                 | DW2047DWAJD-3Z-S          | 2720 | -0.0053 | 162.91  | 1246.76  | 1   | Double Wall Adjustable Duct - 20" Inner Duct, 47' long - 3 Layers Zero Clearance - 26" Stainless Steel Outer Shell. Min Length = 18' / Max Length = 48.5' / Adjustment = 30.5' / Adjustable Section May Need To Be Cut.                                   |
| P21 (SEALED)                 | DW2002DWOFFSETASY-3Z-S    | 2720 | -0.001  | 21.41   | 1246.76  | 1   | Double Wall Duct - 20" Inner Duct Riser & 2 Degree Offset - 3 Layers Zero Clearance - 26" Stainless Steel Outer Shell.                                                                                                                                    |
| System at P21                |                           | 2720 | -1.6973 |         |          |     |                                                                                                                                                                                                                                                           |
|                              | 3M-2000PLUS               |      |         | 0.80    |          | 6   | Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints.                                                                                                                                                                          |
|                              | DW1616DWCLASY-3Z-S        |      |         | 10.62   |          | 12  | Duct - 16" Duct - 22" Double 'V' Clamp - 32 Insulation & Single 'V' Clamp Included - Zero Clearance.                                                                                                                                                      |
|                              | DW20DWCLASY-3Z-S          |      |         | 12.55   |          | 4   | Duct - 20" Duct - 26" Double 'V' Clamp - 32 Insulation & Single 'V' Clamp Included - Zero Clearance.                                                                                                                                                      |
|                              | DW22DWRISER-3Z-S          |      |         | 13.04   |          | 1   | Double Wall Riser Cover - Used On 16" Inner Riser, 4' long - 3 Layers Zero Clearance - 22" Stainless Steel Outer Riser Shell Assembly. Includes Insulation & Single V Clamps For Inner & Outer Connections.                                               |
|                              | SEALDUCTEXT               |      |         | 0.01    |          | 18  | Seal Duct Exterior - 3M Fire Barrier 2000 Plus Is Used To Seal The Exterior Of The Double Wall Duct - SEALDUCTEXT Quantity Or Parts That Need To Be Sealed. Double V Clamp Will Need To Be Sealed In The Field Order 3M Fire Barrier 2000 Plus Separate.  |
| Total Weight                 |                           |      |         | 1653.59 |          |     |                                                                                                                                                                                                                                                           |

### SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

| DUCT DIAMETER | HORIZONTAL<br>SUPPORT (ft) | VERTICAL<br>WALL SUPPORT (ft) | VERTICAL<br>CURB SUPPORT (ft) |
|---------------|----------------------------|-------------------------------|-------------------------------|
| 8"            | 10'                        | 10'                           | 24'                           |
| 10"           | 10'                        | 10'                           | 24'                           |
| 12"           | 10'                        | 10'                           | 24'                           |
| 14"           | 10'                        | 10'                           | 24'                           |
| 16"           | 10'                        | 10'                           | 24'                           |
| 18"           | 10'                        | 10'                           | 24'                           |
| 20"           | 10'                        | 10'                           | 24'                           |
| 22"           | 10'                        | 10'                           | 24'                           |
| 24"           | 10'                        | 10'                           | 24'                           |

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West Valley, UT 84119  
PHONE: (801) 878-3677  
FAX: (919) 227-5953

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Tavernacle E  
SALT LAKE CITY, UT, 84111

**DATE:** 1/5/2018

**DWG.#:**  
3260468

**DRAWN BY:** stevesch

### MASTER DRAWING

**SHEET NO.**  
5



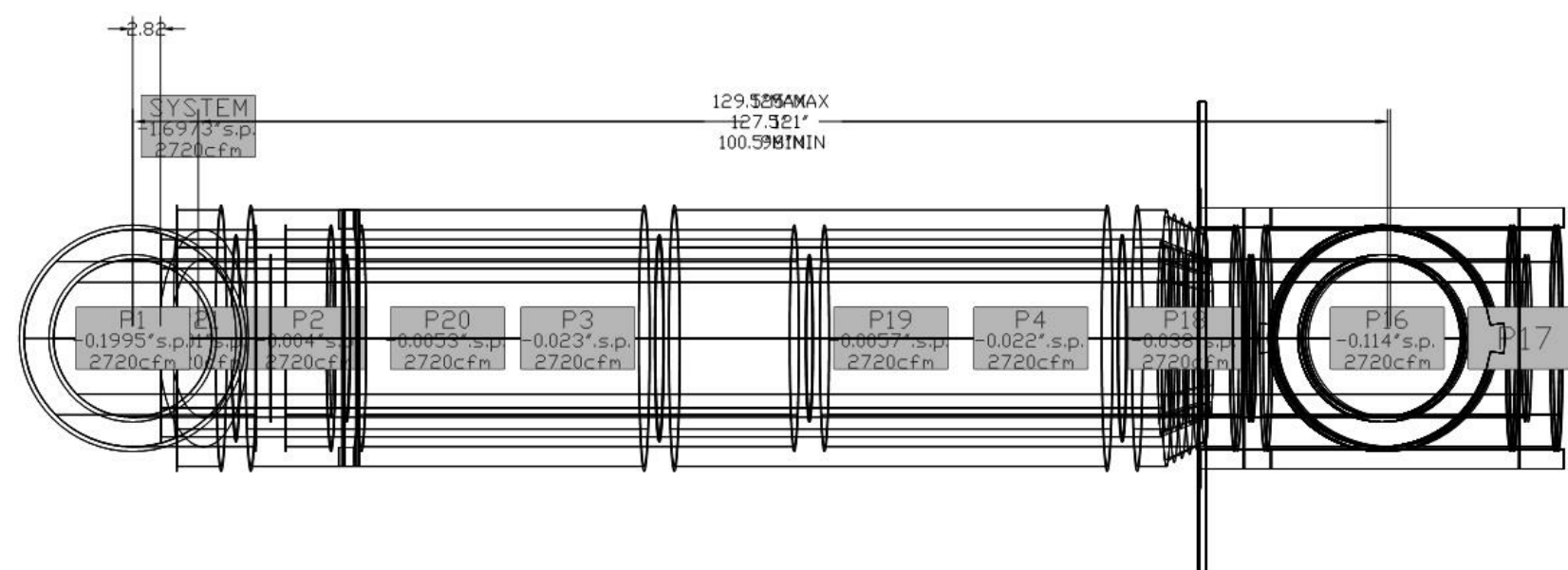
DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GRAVE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

| HORIZONTAL    |                      |
|---------------|----------------------|
| DUCT DIAMETER | SUPPORT SPACING (ft) |
| 8"            | 7'                   |
| 10"           | 7'                   |
| 12"           | 7'                   |
| 14"           | 7'                   |
| 16"           | 7'                   |
| 18"           | 5'                   |
| 20"           | 5'                   |
| 22"           | 5'                   |
| 24"           | 5'                   |

| VERTICAL   |                      |                      |                       |
|------------|----------------------|----------------------|-----------------------|
| TYPE       | WALL<br>SUPPORT (ft) | CURB<br>SUPPORT (ft) | FLOOR<br>SUPPORT (ft) |
| 2R & 2R HT | 20'                  | 24'                  | 24'                   |
| 3R         | 10'                  | 24'                  | 24'                   |
| 3Z         | 10'                  | 24'                  | 24'                   |

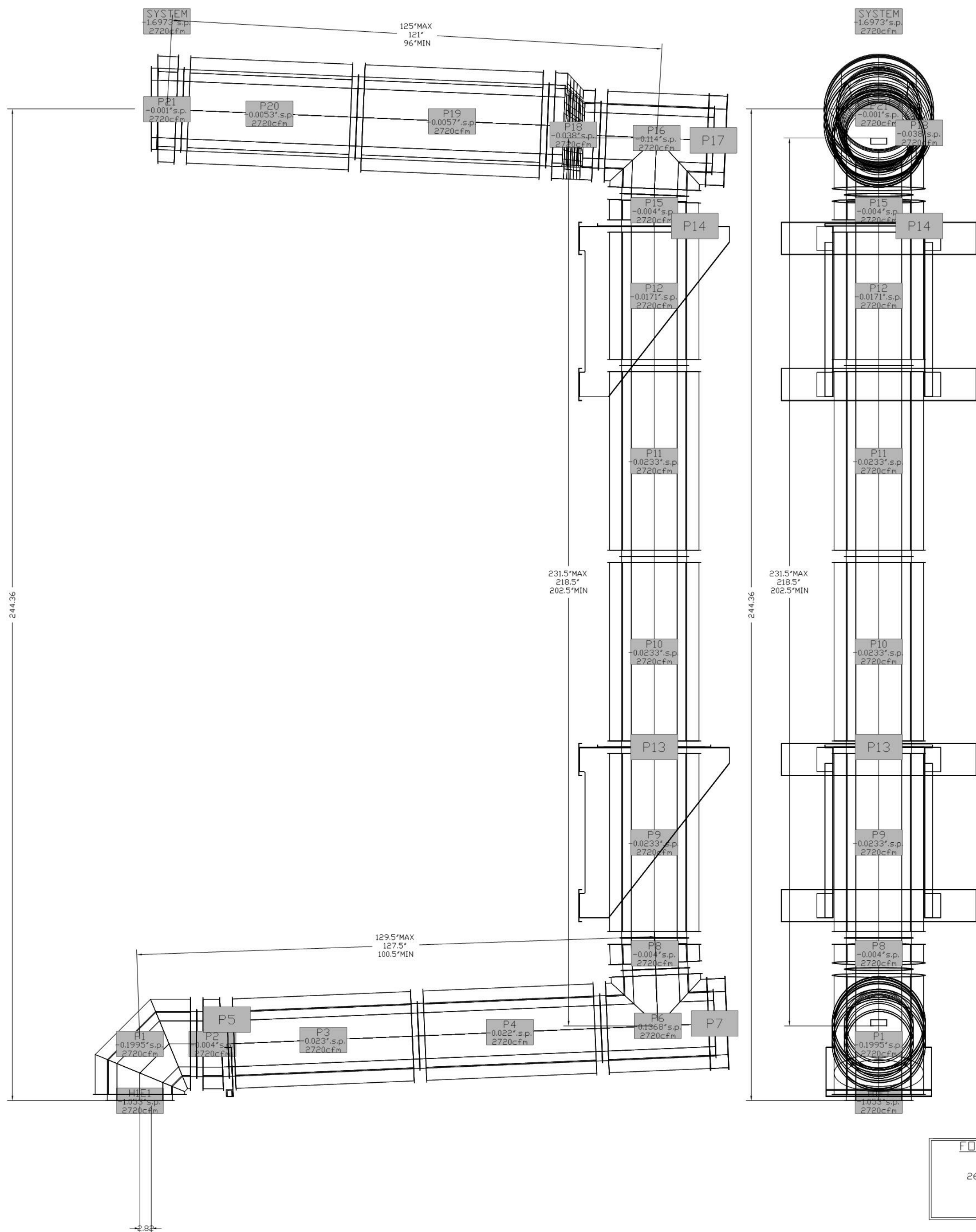
DuctWork #1 Top View



DUCT WORK SHOWN TO SHOW DESIGN INTENT. ACTUAL DUCT ROUTING MAY VARY DEPENDING ON SITE CONDITIONS. ALL DUCT WORK (PREFABRICATED / GALVANIZED DUCT WORK ALIKE) SHALL BE COORDINATED WITH CAPTIVE, ARCHITECT, AND ENGINEER PRIOR TO ORDERING / FABRICATION.

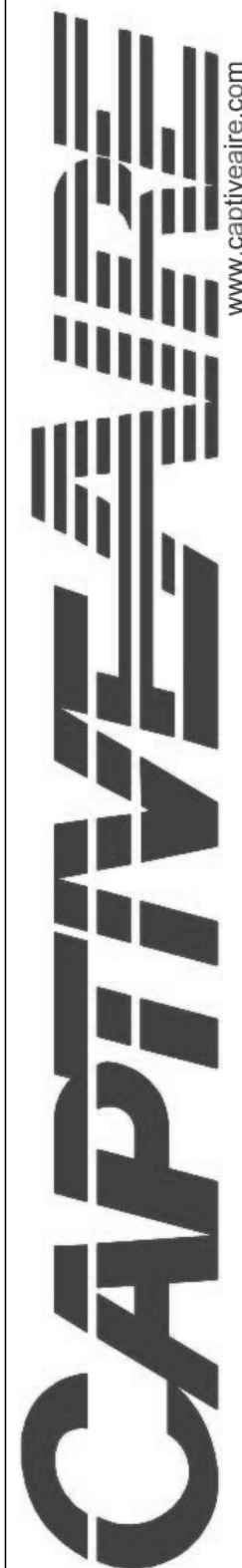
DuctWork #1 Front View

DuctWork #1 Side View



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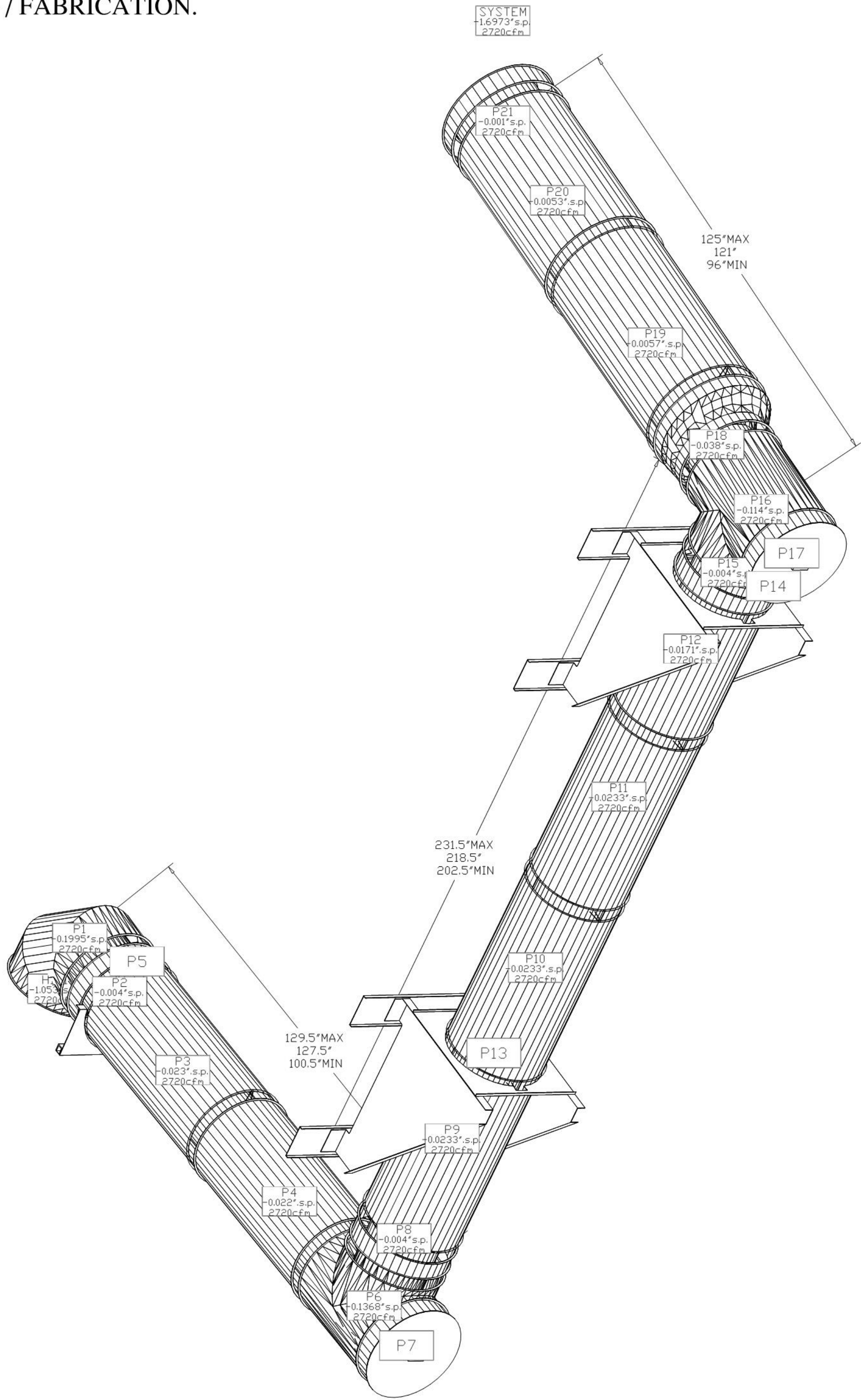
**DRAWN BY:** stevesch

**MASTER DRAWING**

**SHEET NO.**  
6



DUCT WORK SHOWN TO SHOW DESIGN INTENT. ACTUAL DUCT ROUTING MAY VARY DEPENDING ON SITE SONDITIONS. ALL DUCT WORK (PREFABRICATED / GALVANIZED DUCT WORK ALIKE) SHALL BE COORDINATED WITH CAPTIVE, ARCHITECT, AND ENGINEER PRIOR TO ORDERING / FABRICATION.



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7

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**CAPTIVEAIRE**  
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Utah Office  
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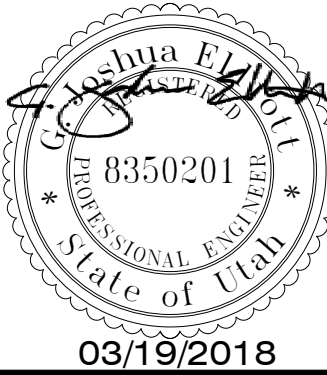


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CAPTIVEAIRE  
SCHEDULES

M0.8



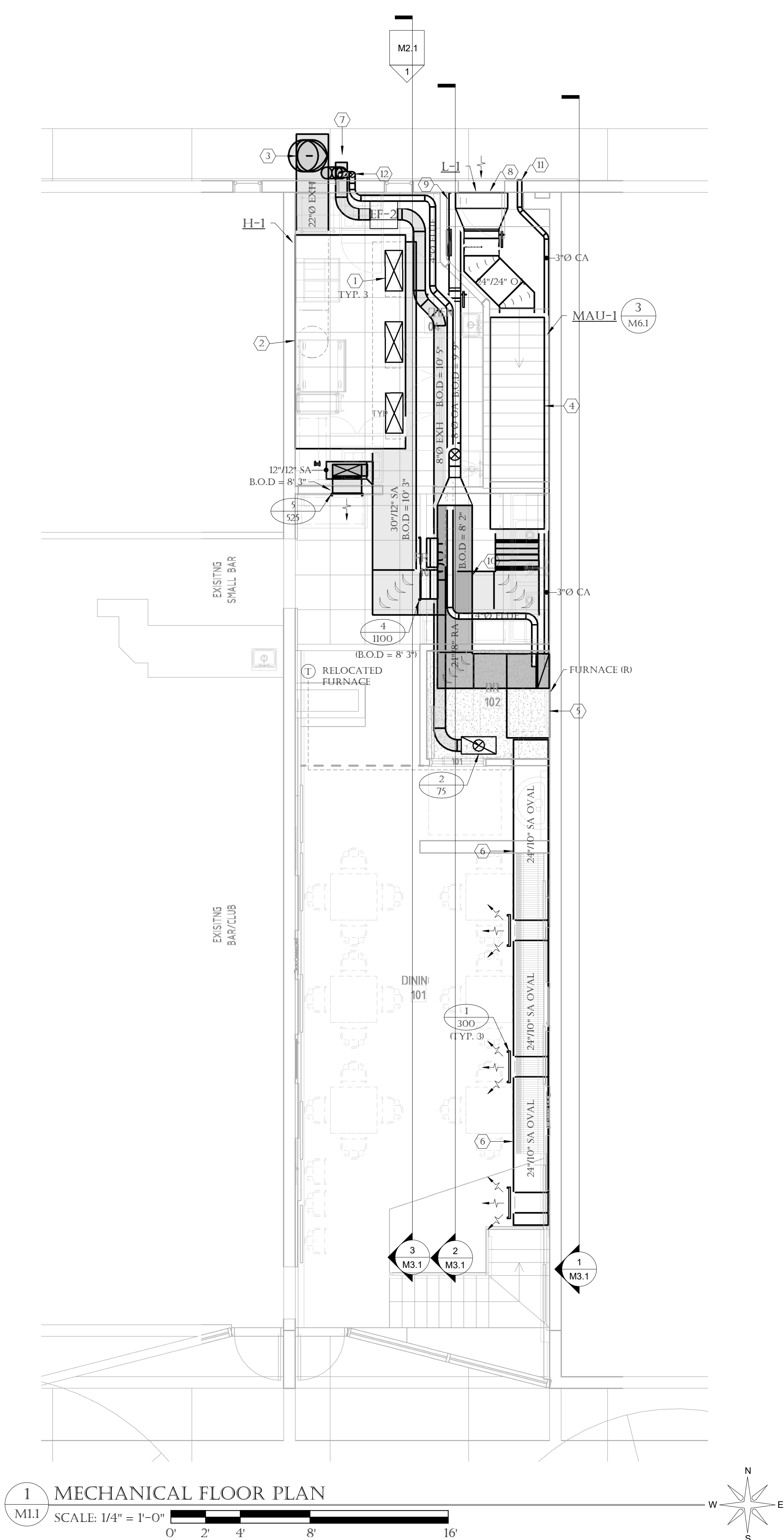
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RANGE

RANGE ARCHITECTURE | DESIGN  
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## KEYNOTES

1. PROVIDE / INSTALL H.E.T. WITH LOCKING QUADRANT BALANCING DAMPER W/ ALL CONNECTIONS TO HOOD. BALANCE EACH PSP CONNECTION TO 725 CFM.
2. PROVIDE / INSTALL 16" ROUND PRE-FABRICATED CONNECTIONS TO HOOD.
3. ROUTE 16" ROUND, PRE-FABRICATED DUCT UP SIDE OF BUILDING AS TIGHT AS POSSIBLE. OFF-SET AT EAVE WITH 45 DEGREE FITTING BEFORE UTILIZING A 90 DEGREE FITTING TO CONNECT TO UTILITY SET FAN. DUCT ON ROOF SHALL SLOPE AT 1/4" PER FOOT BACK TOWARDS DUCT RISER.
4. MC SHALL INSTALL FACTORY ACCESS DOORS ON THIS SIDE OF MAU-1 FOR ACCESS. MAINTAIN 24" OF CLEARANCE ON KITCHEN SIDE OF EQUIPMENT.
5. RELOCATED FURNACE. MC SHALL EXTEND EXISTING LINE SETS AS REQUIRED TO CONNECT TO RELOCATED FURNACE. PROVIDE ALL REQUIRED LINE SET INSULATION. MC TO PROVIDE / INSTALL ALL WIRING AND CONNECTIONS TO NEW, 7-DAY PROGRAMMABLE T-STAT W/ AUTO CHANGE-OVER. RETURN AIR DUCT SHALL CONNECT TO RETURN PLENUM FROM UNDER-SIDE TO MAINTAIN EQUIPMENT ACCESS.
6. 24" x 10" FLAT OVAL DUCT SHALL BE INSTALLED ABOVE TOP TIMBER, SUSPENDED FROM CEILING.
7. TURN 8" ROUND EXHAUST DUCT UP AND TERMINATE W/ A WEATHER-PROOF CAP. DUCT SHALL BE NO CLOSER THAN 36" FROM ANY DOOR / WINDOW.
8. 36" x 30" CONNECTIONS FOR MAU-1 (BOTTOM PORTION OF LOUVER). 36" x 30" CONNECTIONS FOR FURNACE (TOP PORTION OF LOUVER).
9. 8" RND. DUCT SUPPLYING OUTSIDE AIR TO FURNACE SHALL BE ROUTED DIRECTLY UNDER 8" RND. EXHAUST DUCT. PROVIDE OBD AND BALANCE TO 100 CFM.
10. OFFSET 24" x 8" O.A. / 8" RND EXHAUST DUCT TO GO UNDER 24" x 18" MAU-1 DUCT.
11. 3" PVC COMBUSTION FLUE PIPING (BY M.C.) THROUGH EXTERIOR OF BUILDING. PAINT TO MATCH BUILDING. CONNECT TO RELOCATED FURNACE.
12. 4" PVC FLUE PIPING (BY M.C.) SHALL BE ROUTED UP SIDE OF BUILDING AND TERMINATE AT ROOF LINE W/ WEATHER-PROOF CAP. PVC SHALL BE PRIMED / PAINTED WITH UV RESISTANT PAINT. COLOR BY ARCH.

## GENERAL NOTES

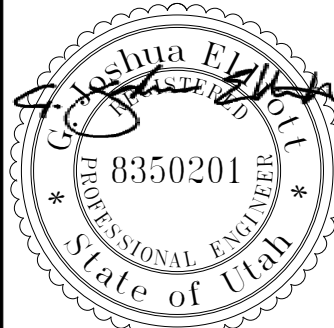
- A DUCT WORK / AIR DEVICES IN DINING AREA SHALL BE FACTORY PRIMED FOR PAINT. PAINT BY OTHERS.
- B ALL DUCT TAKE-OFFS ARE TO BE HIGH EFFICIENCY TAKE-OFFS (HETS) NO EXCEPTIONS TAKEN.
- C ALL EQUIPMENT SHALL BE ACCESSIBLE VIA LAY-IN CEILING GRID.
- D PVC PIPING FOR CONNECTIONS TO FURNACE SHALL BE SCHED. 40 COMPLIANT WITH ASTM D1785. PIPE CEMENT AND PRIMER SHALL CONFORM TO ASTM D2946. TRANSITION FROM 2" TO 3" AT RELOCATED FURNACE.

### TYPE 1 GREASE HOOD NOTES:

- HOODS, FANS, CURBS AND ANSUL SYSTEM ARE PROVIDED BY THE K.E.C. INSTALLED BY M.C.
- ALL FINAL DUCT CONNECTIONS TO HOOD TO BE MADE BY M.C.
- HOOD IS PROVIDED WITH HEAT SENSOR. HEAT SENSOR SHALL AUTOMATICALLY ACTIVATE EF-1 AND MAU-1.
- ALL DUCTWORK SERVING TYPE 1 HOODS IS TO BE 16 GAUGE, WELDED CARBON STEEL OR #18 STAINLESS STEEL AND SHALL BE FIRE WRAPPED WITH 2 LAYERS OF 3M 615+ (ASTM E2366) FIRE BARRIER WRAP.
- ALL HORIZONTAL SECTIONS OF GREASE DUCT SHALL BE SLOPED BACK TO THE HOOD AT A MINIMUM SLOPE OF 1/4" PER FOOT.
- PROVIDE GREASE DUCT ACCESS DOORS AT EACH ELBOW OR EVERY 20' AS REQUIRED.
- GREASE FANS SHALL BE UL 762 LISTED FOR GREASE AND PROVIDED WITH A HINGED CURB AND FLEXIBLE ELECTRICAL CONNECTION FOR CLEANING ACCESS.
- PLUMBING CONTRACTOR IS TO MAKE ALL CONNECTIONS TO EMERGENCY NATURAL GAS SHUT OFF VALVE. VALVE WILL BE PROVIDED WITH ANSUL SYSTEM. (SHIPPED LOOSE)
- ALL GREASE DUCT SHALL PASS THE 100 WATT LIGHT BULB TEST DETAILED IN IMC SECTION 506.3.3.1 PRIOR TO WRAPPING OR CONCEALING ANY PORTION OF THE DUCT. THE DUCT SHALL ALSO PASS A PERFORMANCE TEST DETAILED IN IMC SECTION 507.16 AND 507.16.1. NOTIFY PROJECT MANAGER AND LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO PERFORMING TESTS. PROVIDE PROJECT MANAGER WITH A REPORT DETAILING THE RESULTS OF EACH TEST PERFORMED.

RANGE

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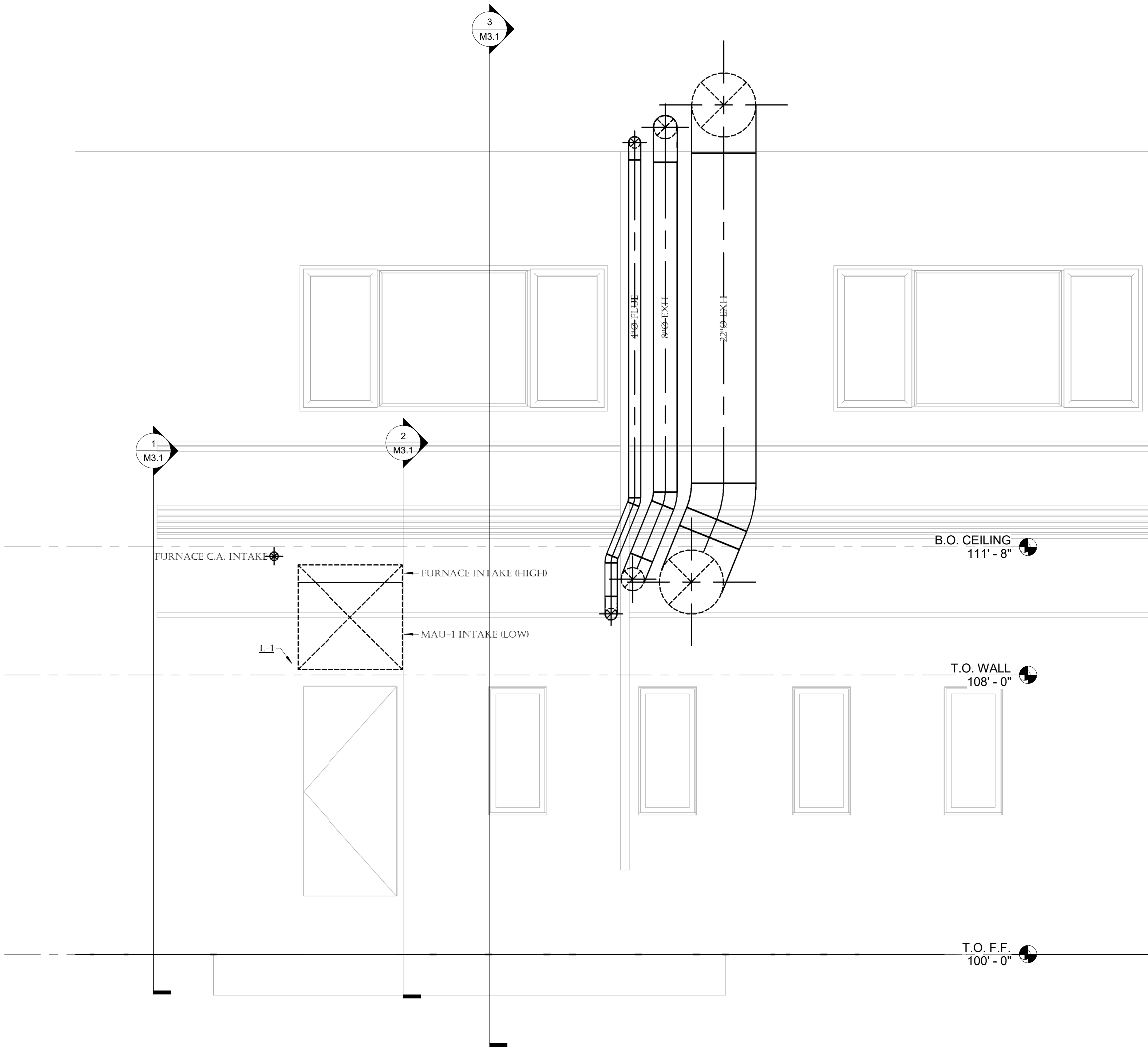
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MECHANICAL  
FLOOR PLAN

M1.1





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MECHANICAL  
ELEVATION  
NORTH  
M2.1

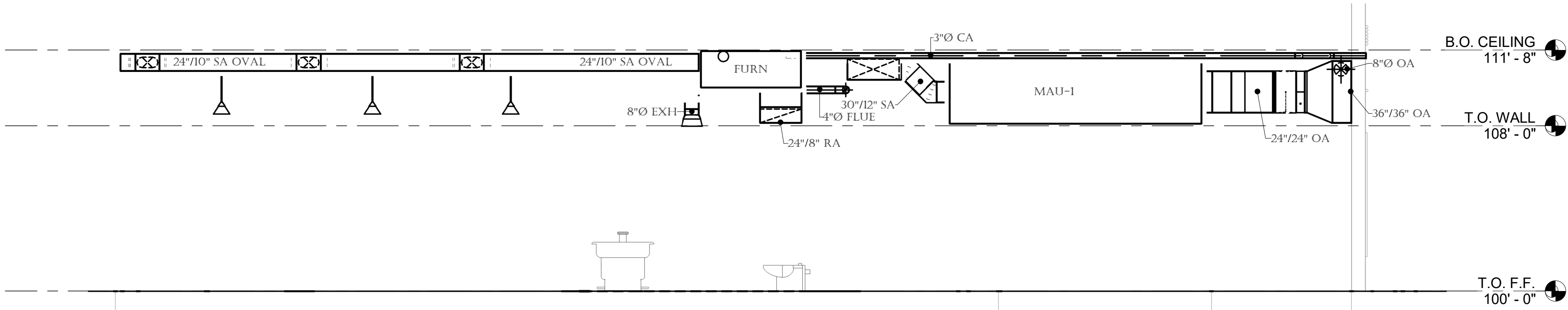


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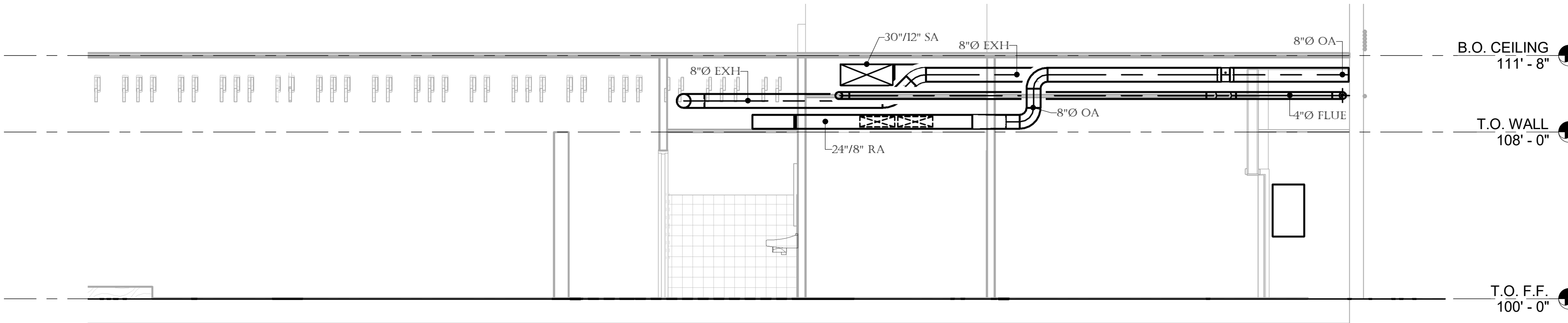
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315 EAST HERMES DRIVE, SLC, UT 84104  
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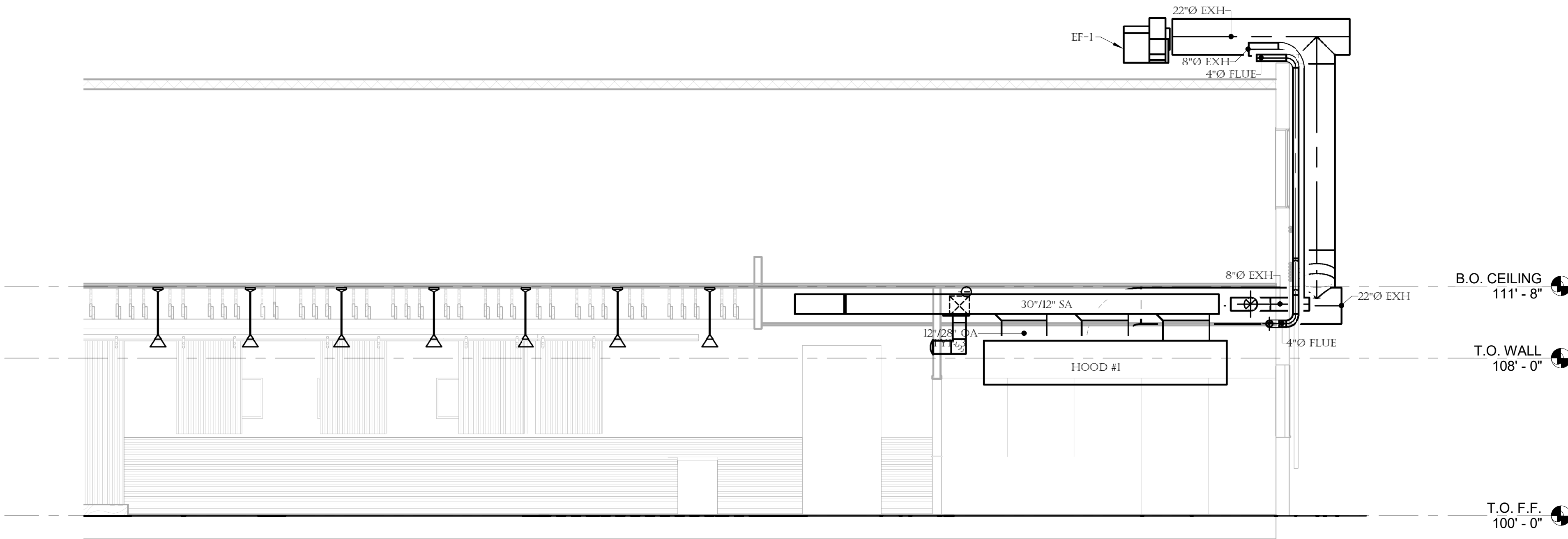
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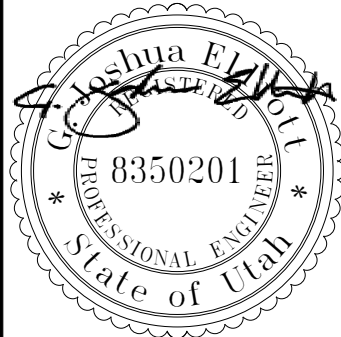
1 SECTION 1  
M3.1 SCALE: 1/4" = 1'-0"



2 SECTION 2  
M3.1 SCALE: 1/4" = 1'-0"



3 SECTION 3  
M3.1 SCALE: 1/4" = 1'-0"



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MECHANICAL  
SECTIONS

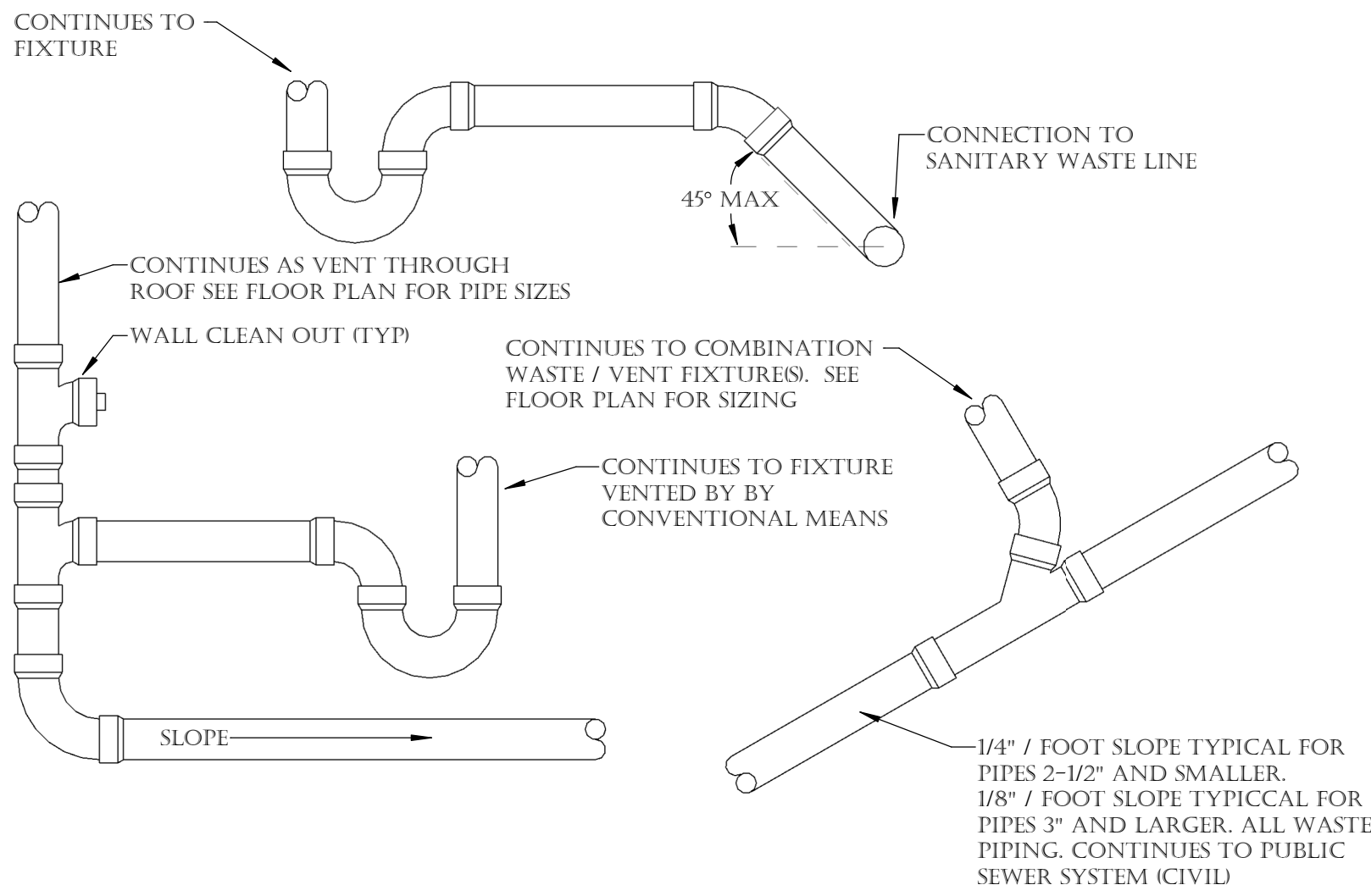
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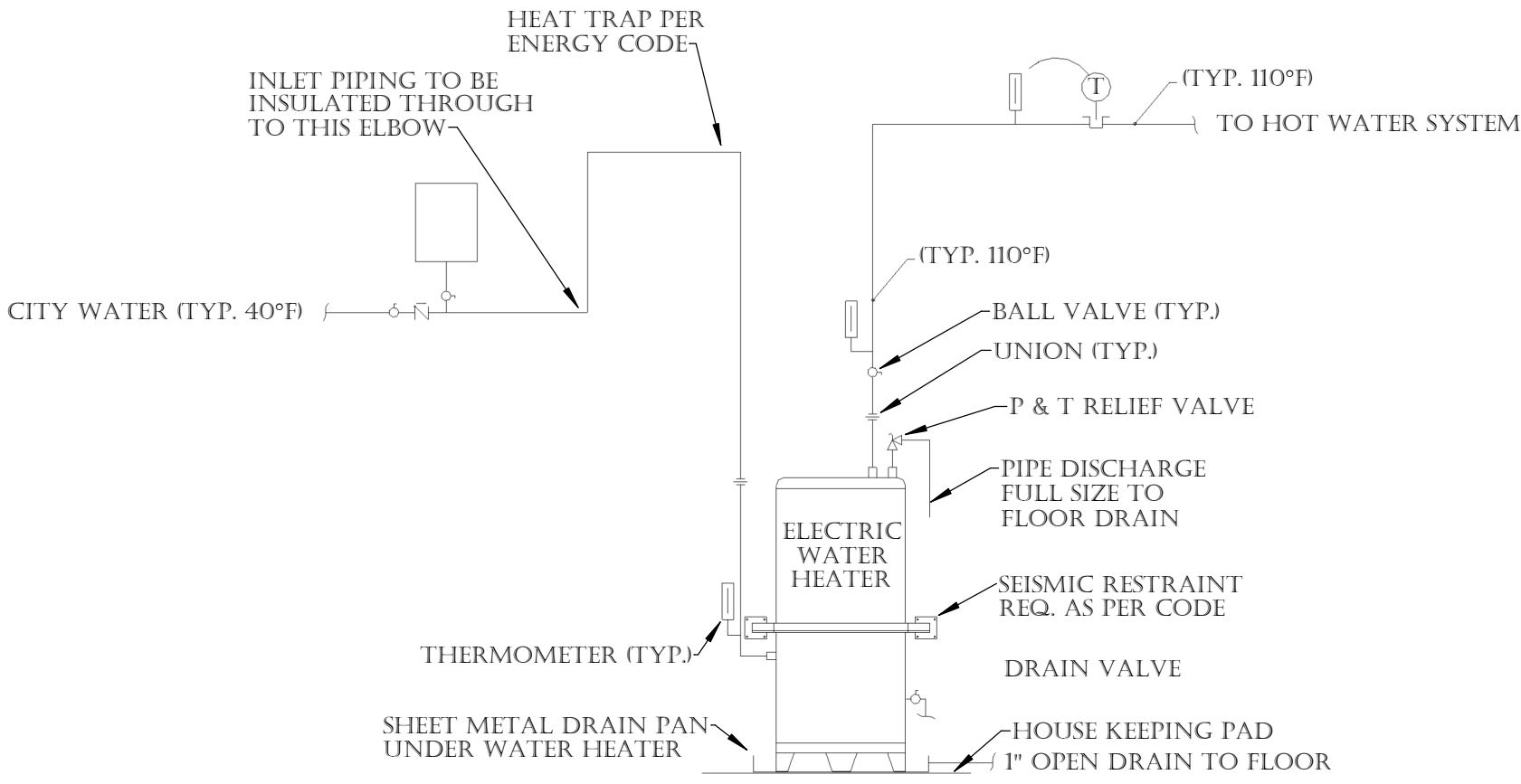
RANGE ARCHITECTURE | DESIGN  
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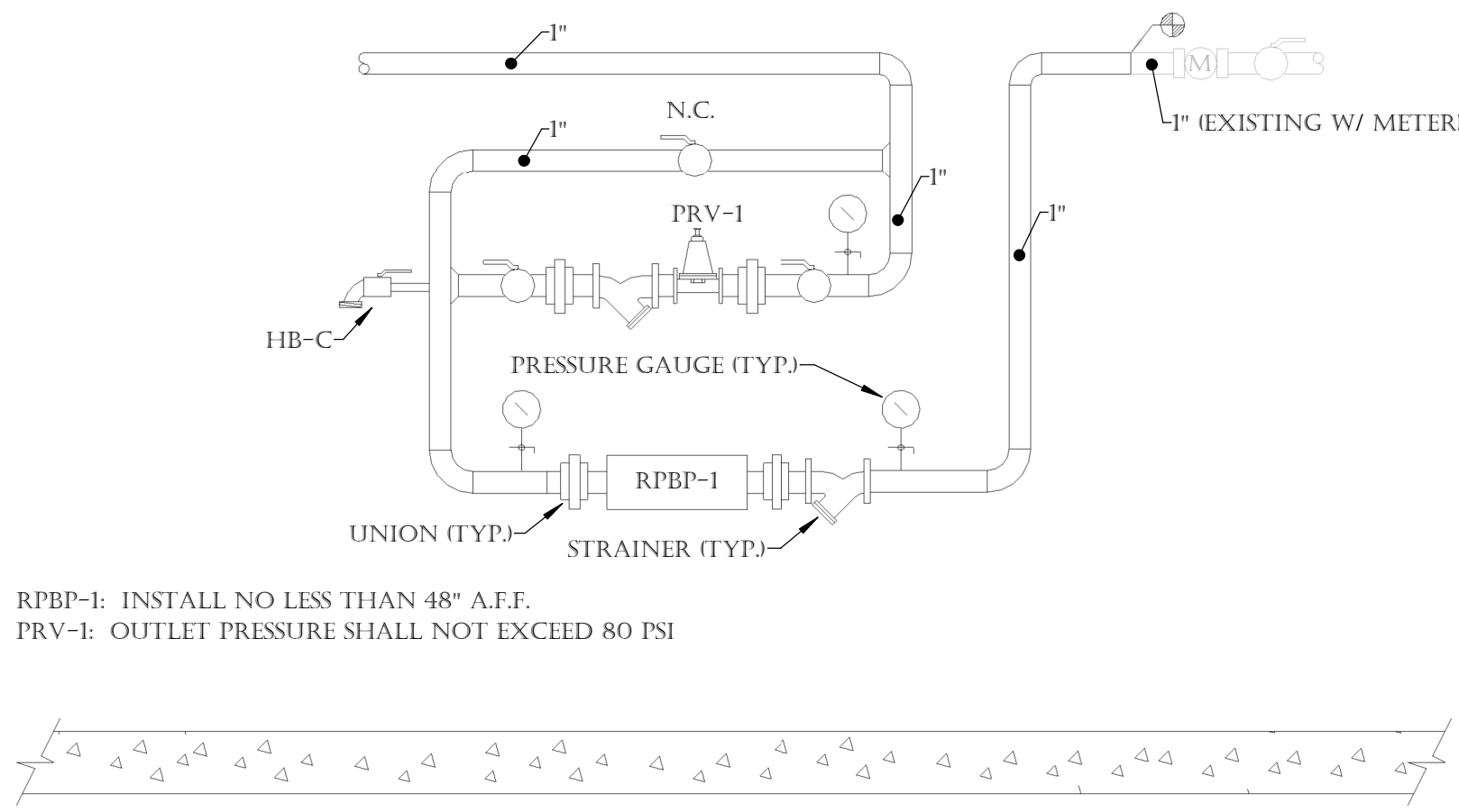
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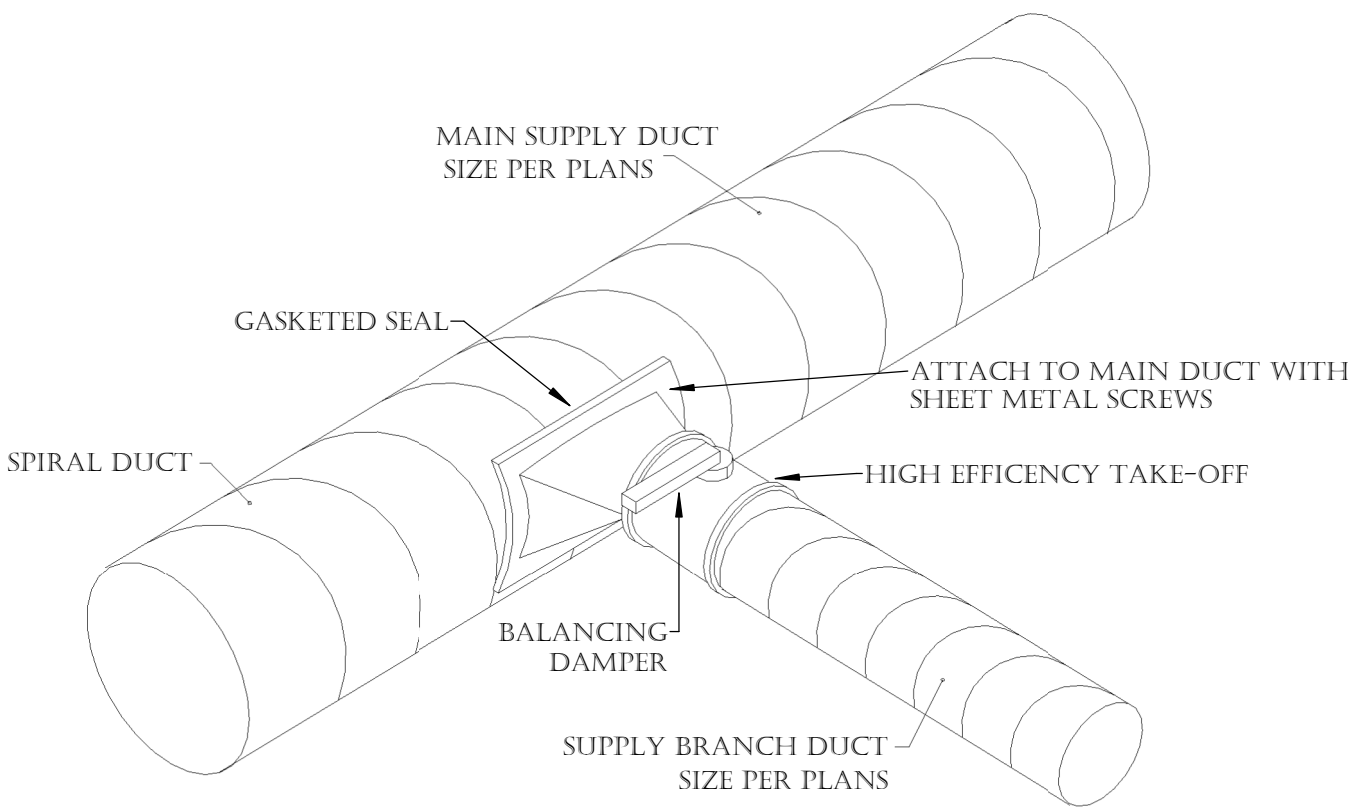
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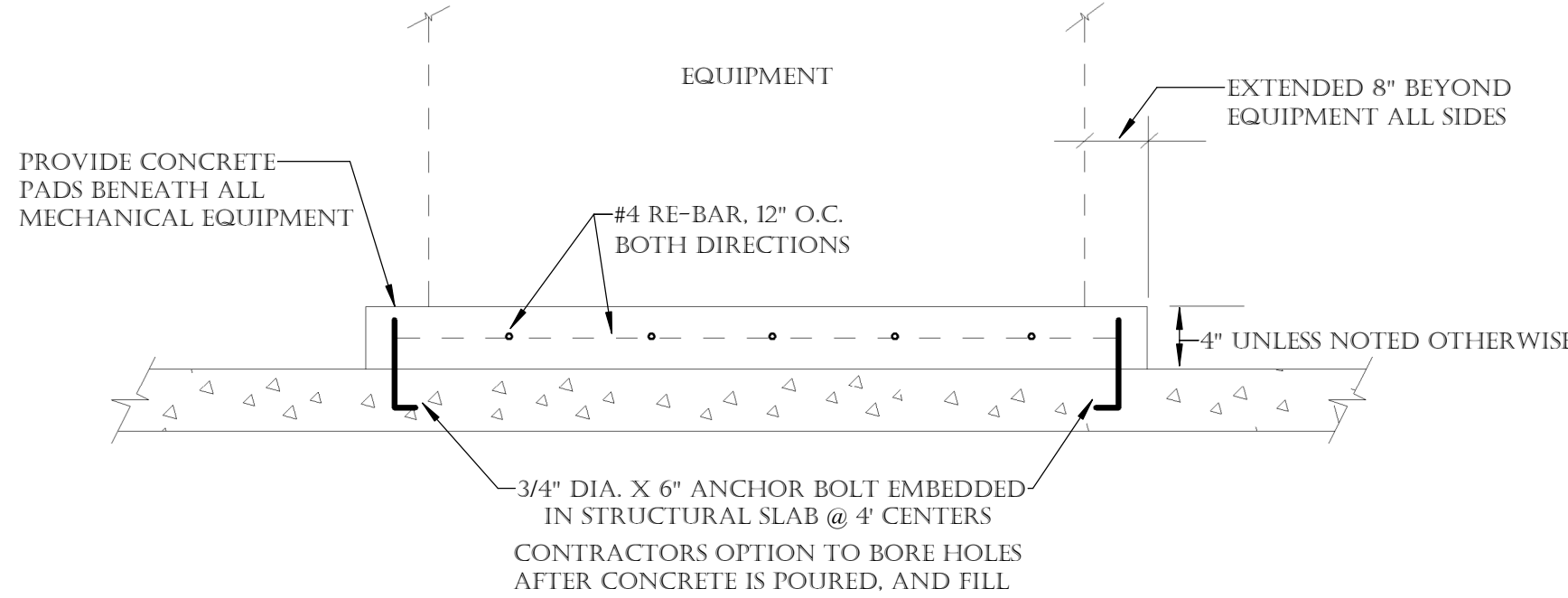
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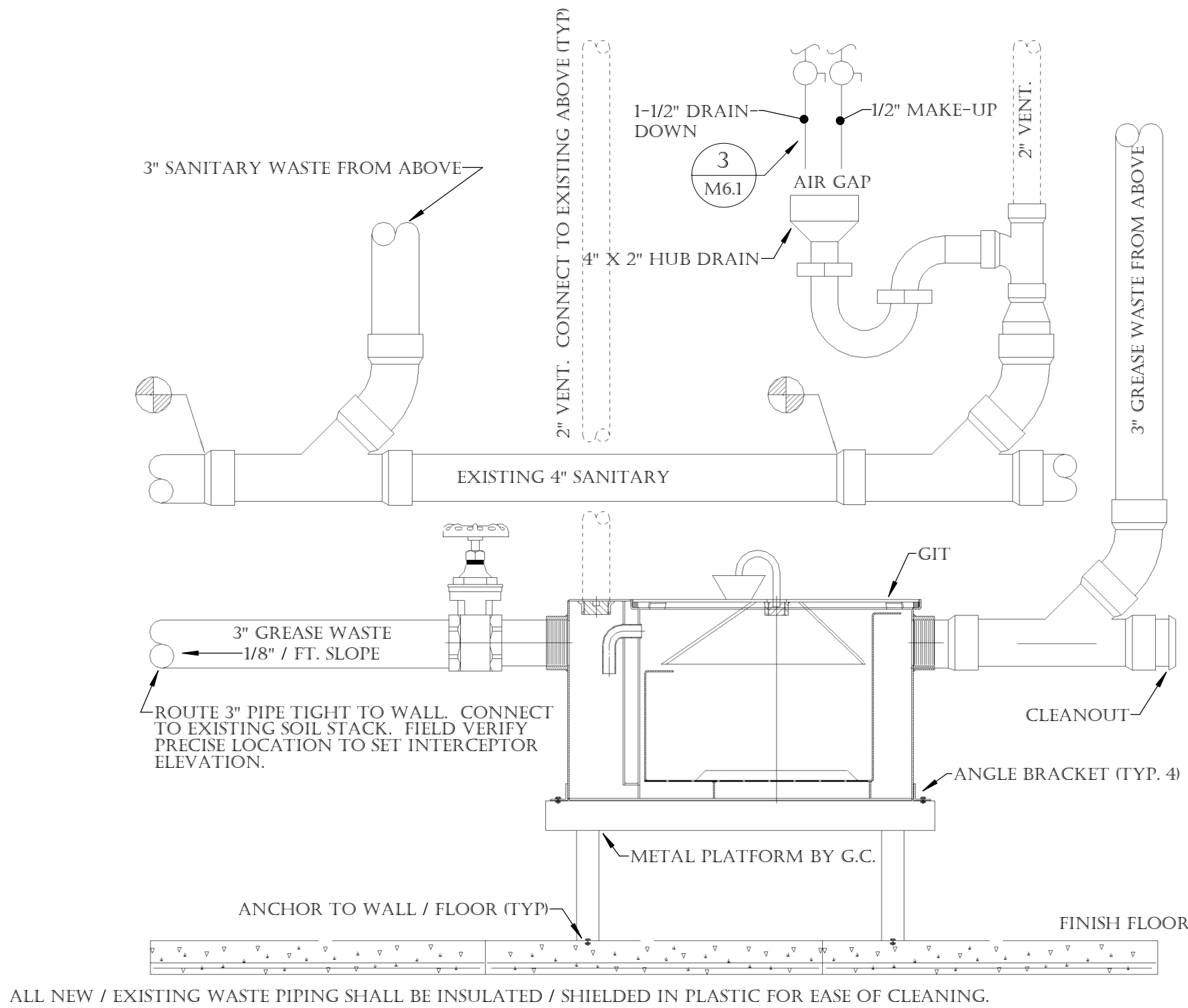
1 DOMESTIC WATER PRV STATION DETAIL  
M6.1 SCALE: NOT TO SCALE



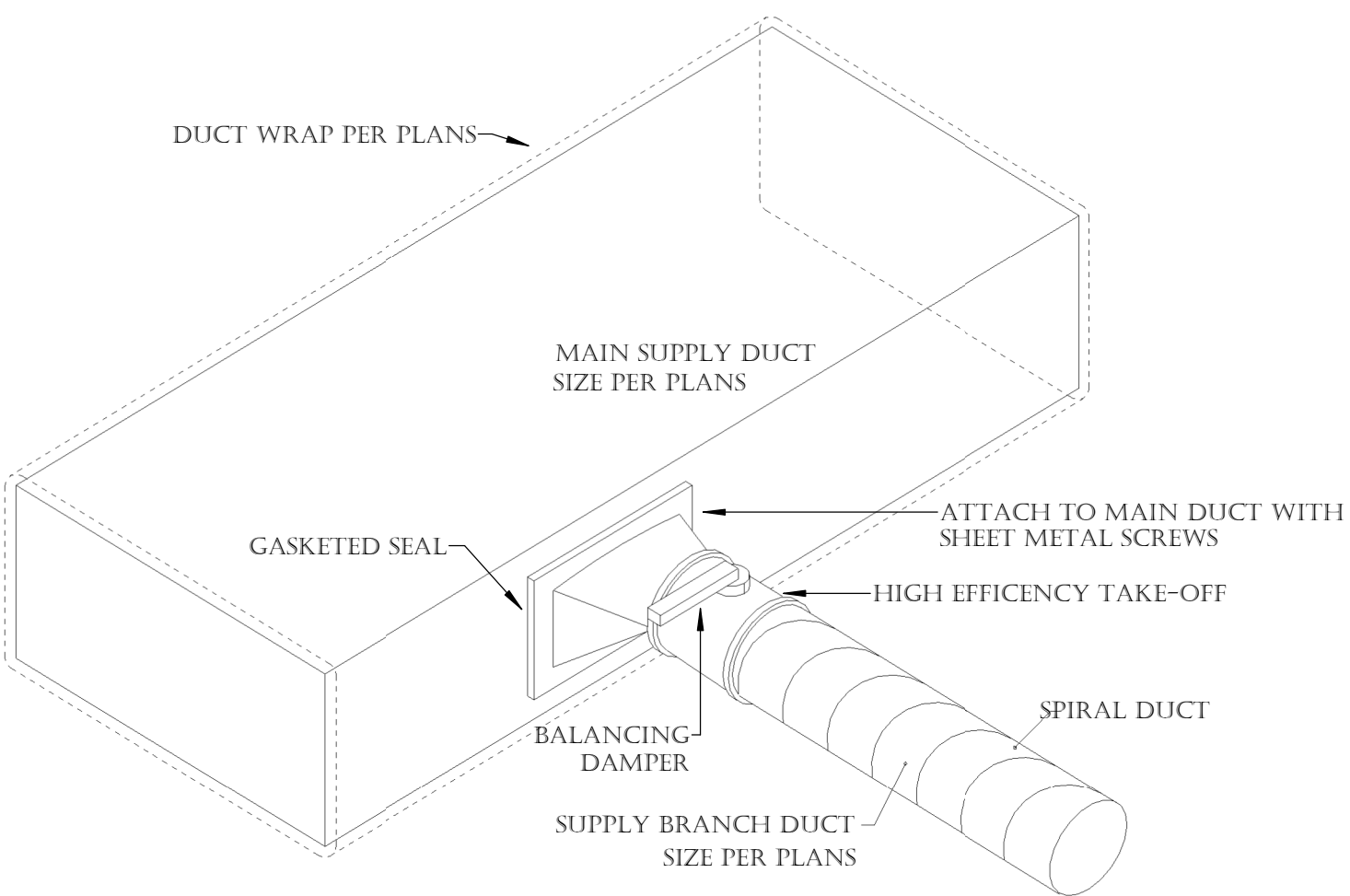
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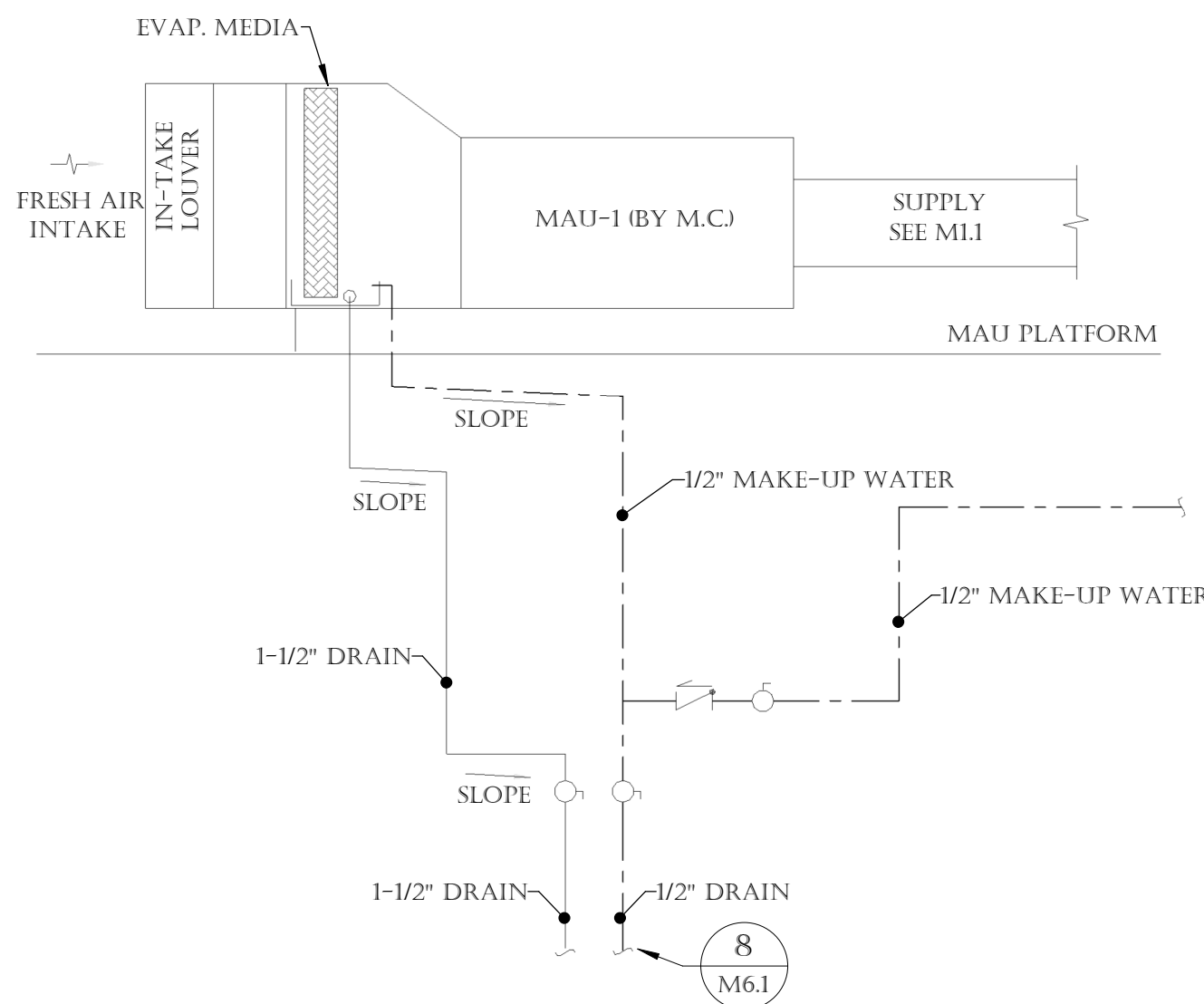
2 HOUSEKEEPING PAD DETAIL  
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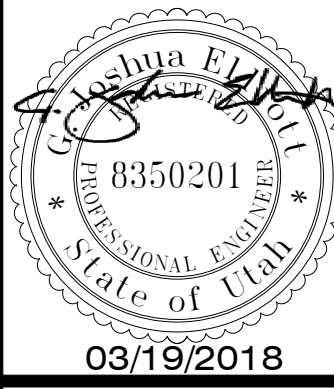
8 GREASE INTERCEPTOR / BASEMENT PLUMBING  
M6.1 SCALE: NOT TO SCALE



6 HIGH EFFICIENCY DUCT TAKEOFF DETAIL SQUARE  
M6.1 SCALE: NOT TO SCALE



3 MAKE-UP AIR UNIT - DRAIN DOWN SCHEMATIC  
M6.1 SCALE: NOT TO SCALE



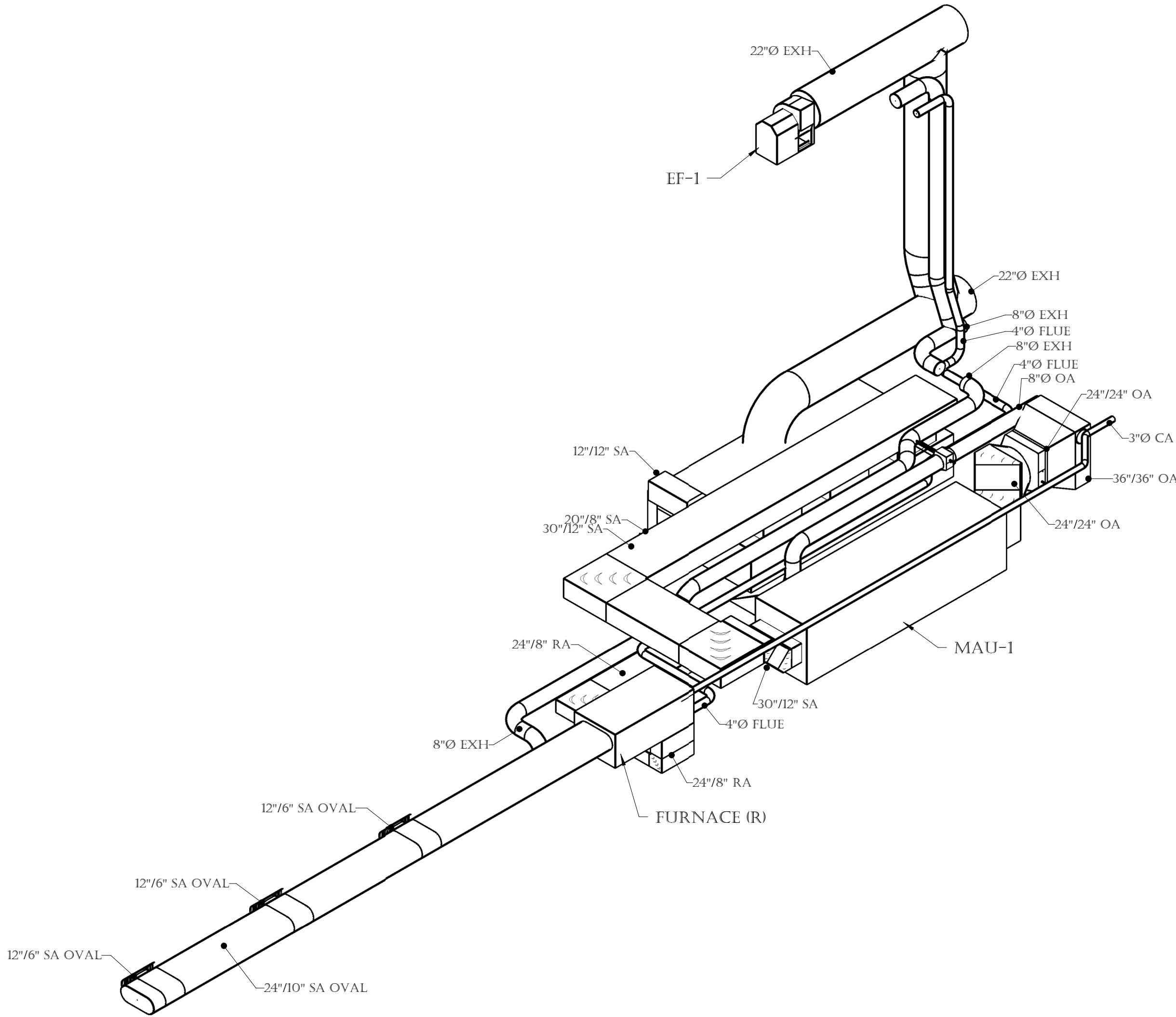
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DETAILS

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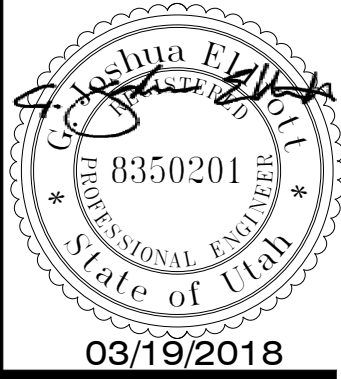
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M9.1 SCALE: NOT TO SCALE

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ISO

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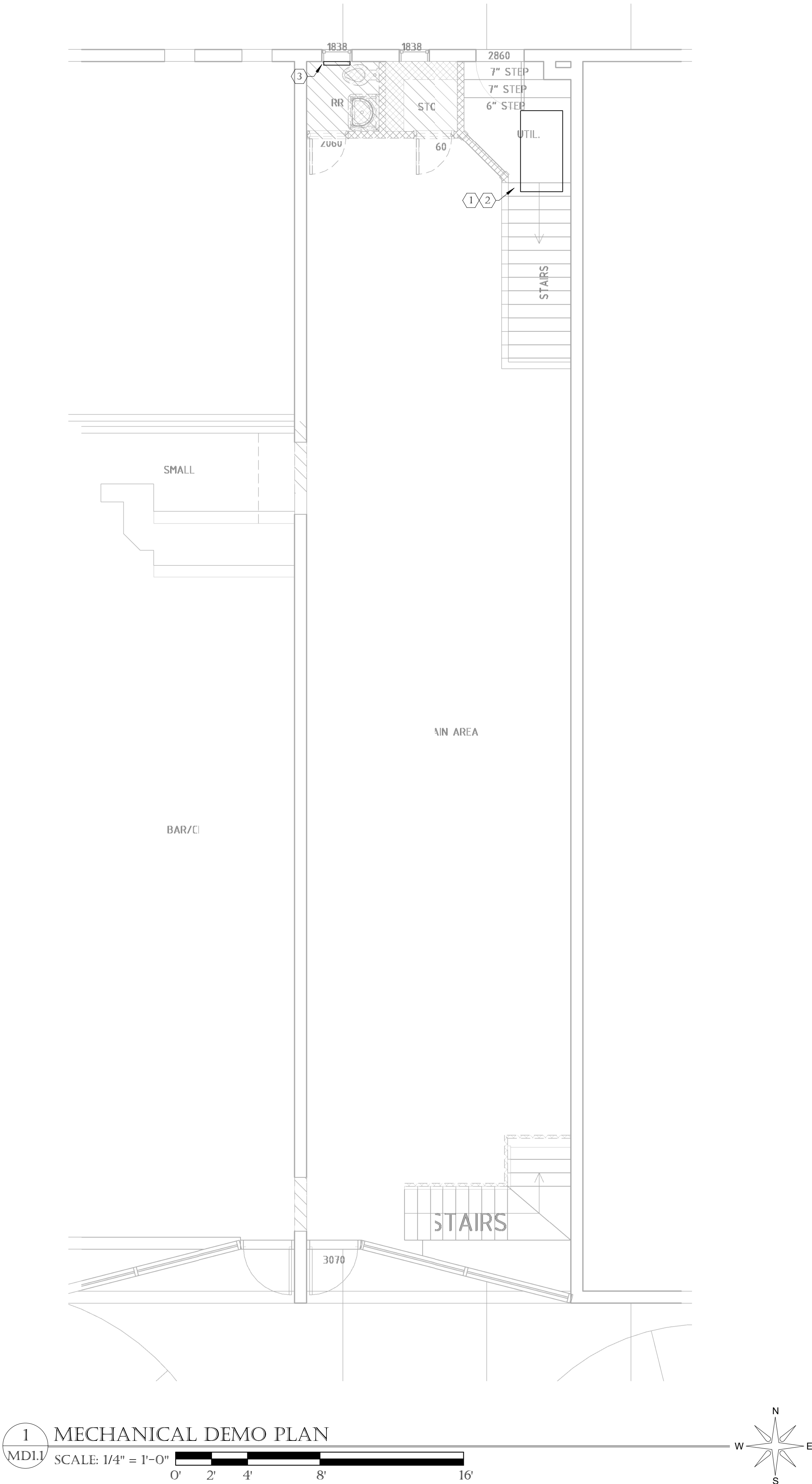
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RANGE

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#### KEYNOTES

1. DISCONNECT LINE SETS. REMOVE FURNACE AND ALL ASSOCIATED DUCT WORK. SEE MD1 FOR RELOCATED FURNACE CONNECTIONS.
2. REMOVE EXISTING COOLING COIL. SEE MD1 FOR NEW COOLING COIL SCHEDULE.
3. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCT WORK.

#### GENERAL NOTES

- (A) REMOVE ALL EXISTING DUCT WORK AND COMPONENTS.

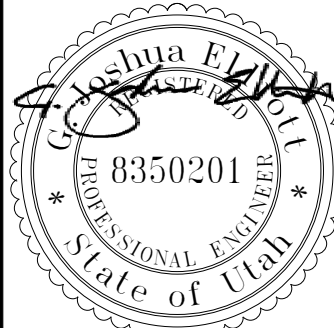
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| DRAWN BY    | TJE          |
| CHECKED BY  | BNS          |
| SHEET TITLE |              |

MECHANICAL  
DEMO PLAN

MD1.1



03/19/2018

RANGE

RANGE ARCHITECTURE | DESIGN  
3115 EAST HERMES DRIVE, SUITE 101, SLC, UT 84143  
WWW.RANGEARCHITECTURE.COM 801.585.9750



THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN, REPRODUCTION, DUPLICATION, COPYING, IMITATION, COMMERCIALLY EXPLOITED, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.

GENERAL NOTES:

- PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW PLUMBING AND MECHANICAL WITH NEW AND EXISTING MECHANICAL, PLUMBING, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
- ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING, FIRE, MECHANICAL, ENERGY, AND PLUMBING CODES.
- THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ARCHITECT FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- ALL WATER FLOW RATES MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO THE FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
- ALL INVERT ELEVATIONS SHOWN ON PLANS ARE BASED OFF OF FINISHED FLOOR ELEVATION AT 100.0'. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR EXACT INVERT ELEVATIONS OF ALL LEVELS.
- ALL GAS METER REGULATORS ARE TO BE VENTED TO THE OUTSIDE OF THE BUILDING BY THE MECHANICAL CONTRACTOR OR PROVIDE / INSTALL VENT-LESS REGULATORS IF ALLOWED BY THE LOCAL JURISDICTION. NONE OF THE VENT PIPING OFF THE REGULATORS ARE SHOWN ON THE PLANS FOR CLARITY.
- ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- EACH VENT SHALL RISE TO A POINT NO LESS THAN SIX (6) INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT. VENTS LESS THAN 6" ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SHALL BE INSTALLED WITH APPROVED DRAINAGE FITTINGS, MATERIAL, AND GRADE TO THE DRAIN.
- INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°.
- WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
- EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FEET ABOVE ANY WINDOW, DOOR, OPENING, OR AIR INTAKE.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
- PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
- WATER SUPPLY LINES FOR DRINK DISPENSERS MUST HAVE BACK-FLOW PROTECTION THAT MEETS THE ASSE 1022 STANDARD.
- INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°.
- FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.
- ALL GAS REGULATORS ARE TO BE VENTLESS, PETRO PRESSURE REGULATORS OR EQUIVALENT.
- P.C. SHALL INSULATE ALL WASTE PIPING THAT IS INSTALLED IN BASEMENT.
- PUBLIC LAVATORIES SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110°. SEE PLUMBING SCHEDULE.
- WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS 0.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
- PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
- WATER SUPPLY LINES FOR DRINK DISPENSERS MUST HAVE BACK-FLOW PROTECTION THAT MEETS THE ASSE 1022 STANDARD.
- ALL TUBING / PIPING FOR DRINK DISPENSING EQUIPMENT SHALL BE NSF APPROVED.
- JET OUT ALL FLOOR DRAINS / FLOOR SINKS JUST PRIOR TO SUBSTANTIAL COMPLETION. PROVIDE WRITTEN DOCUMENTATION TO THE PROJECT MANAGER TO VERIFY WORK HAS BEEN COMPLETED.
- CONTRACTOR SHALL REMOVE ALL UNUSED PIPING FROM WALLS / CEILINGS.
- ALL TRAP PRIMERS SERVING DRAIN FIXTURES WHICH ARE BEING REMOVED, SHALL ALSO BE REMOVED. PIPING SHALL BE CAPPED AS HIGH AS POSSIBLE AND PIPE DROPS SHALL BE REMOVED.
- NEW / REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE. THE PIPING SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR. THE SYSTEM SHALL BE FILLED WITH WATER / CHLORINE SOLUTION CONTAINING NO LESS THAN 200 P.P.M. OF CHLORINE, AND THE SYSTEM SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 3 HOURS. FOLLOWING STAND TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL CHLORINE IS FLUSHED FROM THE SYSTEM. THIS PROCEDURE SHALL BE REPEATED UNTIL SYSTEM IS CLEAR AS INDICATED BY BACTERIOLOGICAL EXAMINATION. PROVIDE TEST / FLUSH DOCUMENTATION TO ENGINEER PRIOR TO PROJECT COMPLETION W/ BALANCE REPORT TO ENGINEER / ARCHITECT. P.C. TO COORDINATE TESTING PROCEDURE WITH PROJECT MANAGER.

| PLUMBING FIXTURE SCHEDULE - P.C. PROVIDED |                                     |           |           |           |           |                                                                             |
|-------------------------------------------|-------------------------------------|-----------|-----------|-----------|-----------|-----------------------------------------------------------------------------|
| FIXTURE TAG                               | DESCRIPTION                         | COLD      | HOT       | WASTE     | VENT      | SPECIFICATIONS                                                              |
| FD-1                                      | FLOOR DRAIN - PREP AREAS            | N/A       | N/A       | 2"        | CWV       | SHIUX CHIEF 833-35PNR                                                       |
| FD-2                                      | FLOOR DRAIN - RESTROOM              | N/A       | N/A       | 2"        | CWV       | SHIUX CHIEF 833-35PNQ                                                       |
| FS-1                                      | ROUND FLOOR SINK (PVC)              | N/A       | N/A       | 3"        | 2"        | SHIUX CHIEF: 861-2P. PVC W/ \ GRATE, COLOR: GRAY. PROVIDE WITH PVC STRAINER |
| HB-H                                      | HOSE BIB - HOT                      | N/A       | 3/4"      | N/A       | N/A       | WOODFORD MODEL 24P-CH. CHROME PLATED BRASS W/ INTEGRAL VACUUM BREAKER       |
| L-1                                       | LAVATORY                            | SEE PLANS | SEE PLANS | N/A       | N/A       | SEE ARCH PLANS                                                              |
| PRV                                       | PRESSURE REDUCING VALVE             | 1"        | N/A       | N/A       | N/A       | WATTS LFN45B - EZ ASSE - 1003                                               |
| RPBP                                      | REDUCED PRESSURE BACKFLOW PREVENTER | 1"        | N/A       | N/A       | N/A       | WATTS LFO09 WITH BALL COCKS, INLINE STRAINER, ASSE1013                      |
| S-1                                       | HAND SINK                           | SEE PLANS | SEE PLANS | N/A       | N/A       | SEE ARCH PLANS                                                              |
| TV-1                                      | TEMPERING VALVE                     | SEE PLANS | SEE PLANS | N/A       | N/A       | SYMMONS: 5-210-CK-MAXLINE. ASSE 1017, 1070, CA116875, NSF/ANSI 61.9/372     |
| WC-1                                      | WATER CLOSET                        | N/A       | N/A       | SEE PLANS | SEE PLANS | SEE ARCH PLANS                                                              |

| PIPING LEGEND                        |  |                                            |
|--------------------------------------|--|--------------------------------------------|
| GATE VALVE                           |  | REDUCED PRESSURE BACKFLOW PREVENTER - RPBP |
| OS & Y PATTERN GATE VALVE            |  | DIRECTION OF FLOW                          |
| BALL VALVE                           |  | ELBOW DOWN                                 |
| BUTTERFLY VALVE                      |  | ELBOW UP                                   |
| MOTORIZED BUTTERFLY VALVE            |  | PIPE CAP                                   |
| CHECK VALVE (SWING OR LIFT AS REQ'D) |  | TEE DOWN                                   |
| SOLENOID VALVE                       |  | UNION                                      |
| PRESSURE REDUCING VALVE              |  | DOMESTIC COLD WATER                        |
| P & T RELIEF VALVE                   |  | DOMESTIC HOT WATER                         |
| AIR VENT (AUTOMATIC)                 |  | HOT WATER CIRC.                            |
| STRAINER                             |  | SANITARY (PLBG) VENT                       |
| CIRCUIT SETTER                       |  | SANITARY SEWER BELOW GRADE                 |
| PRESSURE GAUGE W/GAUGE COCK          |  | NATURAL GAS                                |
| THERMOMETER                          |  | FLOOR DRAIN                                |
| TEMPERATURE & PRESSURE TEST PLUG     |  | FLOOR SINK                                 |
| FLOW SWITCH                          |  | WALL CLEANOUT                              |
| AQUASTAT                             |  | FLOOR OR GRADE CLEANOUT                    |
| HOSE BIBB OR SILL COCK               |  | GREASE WASTE                               |

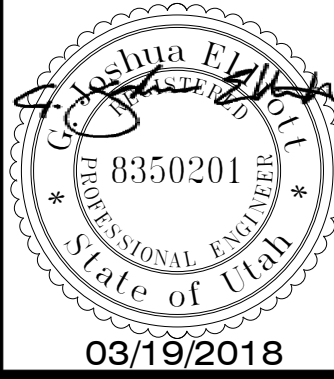
| GREASE INTERCEPTOR GIT-                                                  |             |                 |                          |                      |        |        |        |                                                                                                                                                                         |
|--------------------------------------------------------------------------|-------------|-----------------|--------------------------|----------------------|--------|--------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PLAN CODE                                                                | AREA SERVED | MAKE AND MODEL  | WATER CAPACITY (GALLONS) | GREASE STORAGE (LBS) | WIDTH  | LENGTH | HEIGHT | REMARKS                                                                                                                                                                 |
| GIT-1                                                                    | KITCHEN     | ZURN ZII73 - TD | 16                       | 40                   | 17.25" | 30"    | 15"    | ACID RESISTANT INTERIOR / EXTERIOR STEEL INTERCEPTOR. INTERNAL AIR RELIEF BY-PASS. REMOVABLE DIFFUSING Baffle, GASKETED, NON-SKID COVER AND ZII08 FLOW CONTROL FITTING. |
| * INTERCEPTOR SIZED FOR A 1 MINUTE DRAIN TIME BASED ON COMPARTMENT SIZES |             |                 |                          |                      |        |        |        |                                                                                                                                                                         |

| PIPING MATERIAL SCHEDULE - IPC 2015               |                                          |                                                                                                 |                                                                                                  |                                                                                                                      |
|---------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| SERVICE                                           | IDENTIFICATION                           | PIPE MATERIAL                                                                                   | FITTINGS                                                                                         | JOINTS                                                                                                               |
| DOMESTIC WATER - ABOVE GRADE                      | COLD: BLUE ON WHITE<br>HOT: RED ON WHITE | TYPE "L" COPPER -<br>ASTM B75, ASTM B88,<br>ASTM B 251, ASTM B447                               | ASSE 1061, ASME B16.15,<br>ASME B16.18, ASME B16.22,<br>ASME B16.23, ASME B16.26,<br>ASME B16.29 | BRAZED: AWS A5.8,<br>SOLDERED: ASTM B 828,<br>ASTM B 32 W/ ASTM B 813<br>FLUX. THREADED:<br>ASME B1.20.1             |
| DOMESTIC WATER - BELOW GRADE                      |                                          | TYPE "K" COPPER -<br>ASTM B75, ASTM B88,<br>ASTM B 251, ASTM B447                               | ASSE 1061, ASME B16.15,<br>ASME B16.18, ASME B16.22,<br>ASME B16.23, ASME B16.26,<br>ASME B16.29 | BRAZED: AWS A5.8,<br>SOLDERED: ASTM B 828,<br>ASTM B 32 W/ ASTM B 813<br>FLUX. THREADED:<br>ASME B1.20.1             |
| DRAIN, WASTE, AND VENT - ABOVE GRADE              | GREEN ON WHITE                           | CAST IRON -<br>ASTM A74, ASTM A888,<br>CISPI 301                                                | ASME B16.4, ASME B16.12,<br>ASTM A74, ASTM A888,<br>CISPI 301                                    | COMPRESSION: ASTM<br>C564, ASTM C1563,<br>HUBLESS: CISPI 310, ASTM<br>C 1277 OR ASTM C1540,<br>ASTM C564 OR CSA B602 |
| DRAIN, WASTE, AND VENT - ABOVE GRADE              | GREEN ON WHITE                           | ABS, SCHED. 40, SOLID<br>CELLULAR CORE - ASTM<br>D 2661, ASTM F 628, ASTM<br>F 1488, CSA B181.1 | ASTM D 2661, ASTM F 628,<br>CSA B181.1                                                           | ASTM D 2235, CSA B181.1                                                                                              |
| DRAIN, WASTE, AND VENT - BELOW GRADE              |                                          | ABS, SCHED. 40, SOLID<br>CELLULAR CORE,ASTM D<br>2661, ASTM F 628, ASTM F<br>1488, CSA B181.1   | ASTM D 2661, ASTM F 628,<br>CSA B181.1                                                           | ASTM D 2235, CSA B181.1                                                                                              |
| DRAIN, WASTE, AND VENT - ABOVE GRADE (CONDENSATE) | GREEN ON WHITE                           | PVC, SCHED. 40, SOLID<br>CELLULAR CORE, ASTM D<br>2665, ASTM F 891, ASTM F<br>1488, CSA B 181.2 | ASTM D 2665, ASTM F 1866                                                                         | ASTM D 3212                                                                                                          |
| DRAIN, WASTE, AND VENT - BELOW GRADE              |                                          | PVC, SCHED. 40, SOLID<br>CELLULAR CORE, ASTM D<br>2665, ASTM F 891, ASTM F<br>1488, CSA B 181.2 | ASTM D 2665, ASTM F 1866                                                                         | ASTM D 3212                                                                                                          |
| NATURAL GAS                                       | BLACK ON YELLOW                          | SCHED. 40 STEEL -<br>ASTM A53/A53M OR<br>ASME B36.10/10M OR<br>ASME A106                        | THREADED:<br>IFGC TABLE 403.9.2                                                                  |                                                                                                                      |
| CONDENSATE WASTE (COOLER / FREEZER)               |                                          | DWV COPPER -ASTM B75,<br>ASTM B88, ASTM B251,<br>ASTM B306                                      | ASME B16.15, ASME<br>B16.18, ASME B16.22,<br>ASME B16.23, ASME<br>B16.26, ASME B16.29            | BRAZED: AWS A5.8,<br>SOLDERED: ASTM B828,<br>ASTM B32, W ASTM B13<br>FLUX. THREADED: ASME<br>B1.20.1                 |

| MINIMUM PIPE INSULATION THICKNESS - 2015 WSEC C403.2.9 |                                           |                        |                   |              |              |            |      |
|--------------------------------------------------------|-------------------------------------------|------------------------|-------------------|--------------|--------------|------------|------|
| FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)       | INSULATION CONDUCTIVITY                   |                        | NOMINAL PIPE SIZE |              |              |            |      |
|                                                        | CONDUCTIVITY BTU X IN. / (41 X FT² X °F)° | MEAN RATING TEMP. (°F) | < 1"              | 1" TO < 1.5" | 1.5" TO < 4" | 4" TO < 8" | ≥ 8" |
| > 350                                                  | 0.32 - 0.34                               | 250                    | 4.5               | 5            | 5.0          | 5.0        | 5.0  |
| 251 - 350                                              | 0.29 - 0.32                               | 200                    | 3                 | 4.0          | 4.5          | 4.5        | 4.5  |
| 201 - 250                                              | 0.27 - 0.30                               | 150                    | 2.5               | 2.5          | 2.5          | 3.0        | 2.5  |
| 141 -200                                               | 0.25 - 0.29                               | 125                    | 1.5               | 1.5          | 2.0          | 2.0        | 2.0  |
| 105 - 140                                              | 0.21 - 0.28                               | 100                    | 1                 | 1.0          | 1.5          | 1.5        | 1.5  |
| 40 - 60                                                | 0.21 - 0.27                               | 75                     | 0.5               | 0.5          | 1.0          | 1.0        | 1.0  |
| < 40                                                   | 0.20 - 0.26                               | 75                     | 0.5               | 1.0          | 1.0          | 1.0        | 1.5  |

RANGE

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TAVERNACLE EXPANSION

207 BROADWAY

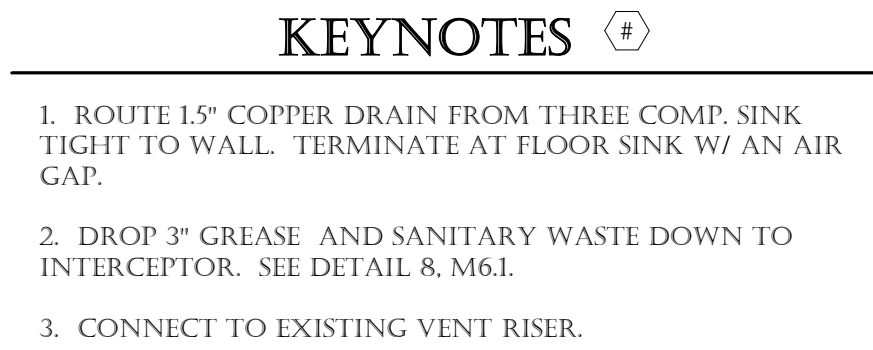
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| DRAWN BY    | TJE          |
| CHECKED BY  | BNS          |
| SHEET TITLE |              |

PLUMBING  
SCHEDULES

P0.1





(A) KITCHEN COOKING EQUIPMENT IS PROVIDED BY K.E.C.  
K.E.C. WILL PROVIDE EQUIPMENT CUT SHEETS.

03/19/2018

**TAVERNAACLE EXPANSION**  
207 BROADWAY  
SLC, UT 84111

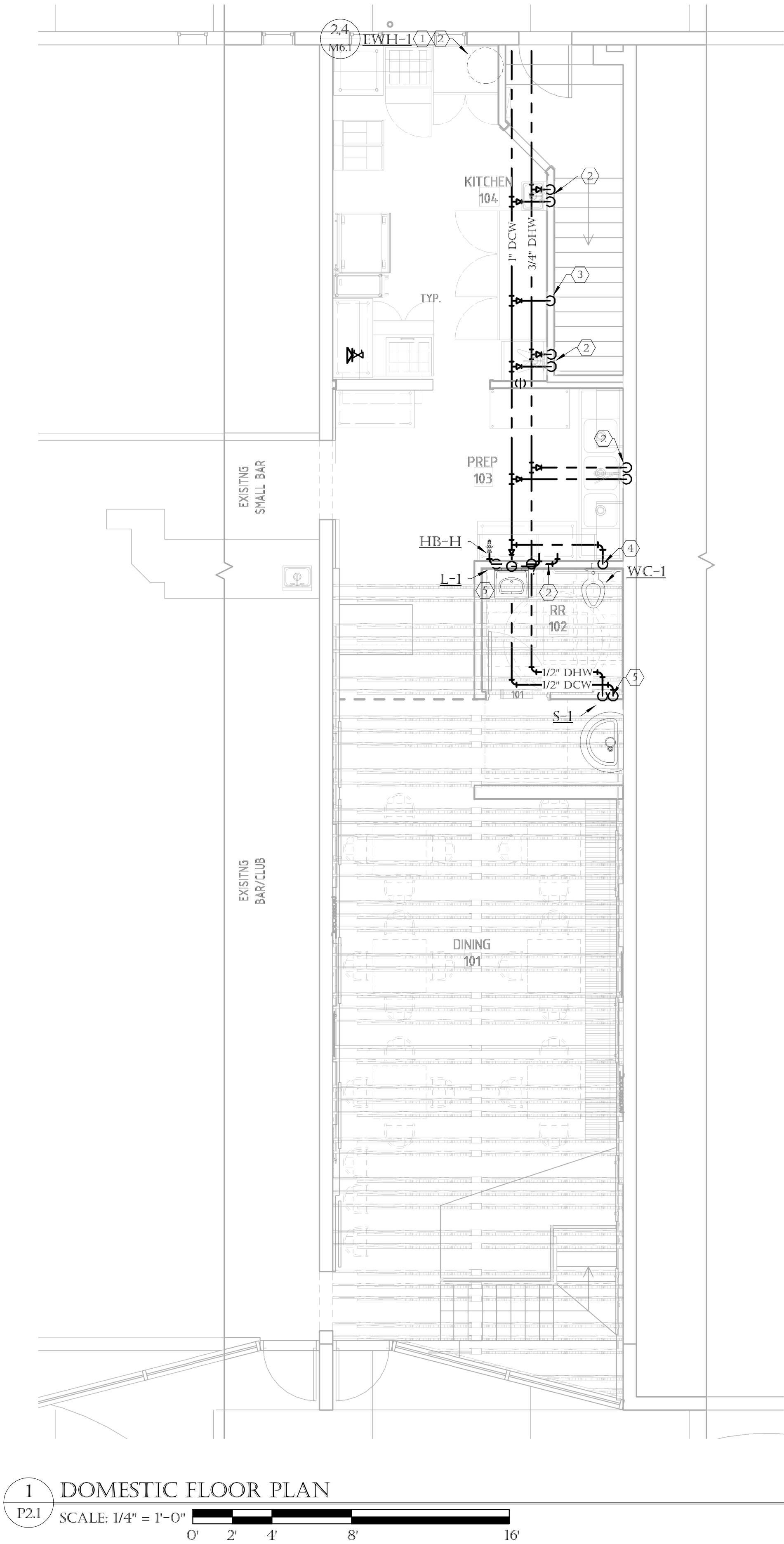
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| DRAWN BY    | TJE          |
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SANITARY  
FLOOR PLAN

## P1.1



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#### KEYNOTES

- DOMESTIC PIPING SHALL BE ROUTED IN THE CEILING OF THE LOWER LEVEL OF BUILDING.
- 1/2" DCW / DHW UP TO K.E.C. PROVIDED SINK. PROVIDE / INSTALL ALL FINAL CONNECTIONS.
- 1/2" DCW UP WALL FROM BELOW. PROVIDE / INSTALL AN ISOLATION VALVE AND ALL FINAL CONNECTIONS TO EVAP. SECTION OF MAU-1.
- 1" DCW FROM BELOW. PROVIDE / INSTALL ALL FINAL CONNECTIONS TO P.C. PROVIDED FIXTURE.
- 1/2" DCW / DHW FROM BELOW. PROVIDE / INSTALL ALL FINAL CONNECTIONS TO P.C. PROVIDED FIXTURE.
- ELECTRIC WATER HEATER ON LOWER LEVEL. SEE DETAIL 4, SHEET M6.1.

#### GENERAL NOTES

- KITCHEN COOKING EQUIPMENT IS PROVIDED BY K.E.C. K.E.C. WILL PROVIDE EQUIPMENT CUT SHEETS.
- SEE ARCHITECT'S PLANS FOR PLUMBING FIXTURE SCHEDULES. ALL SUBMITTALS WILL REQUIRE APPROVAL FROM ARCHITECT / ENGINEER.

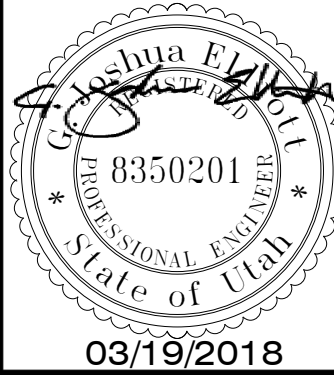
## TAVERNACLE EXPANSION

207 BROADWAY  
SLC, UT 84111

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DOMESTIC  
FLOOR PLAN

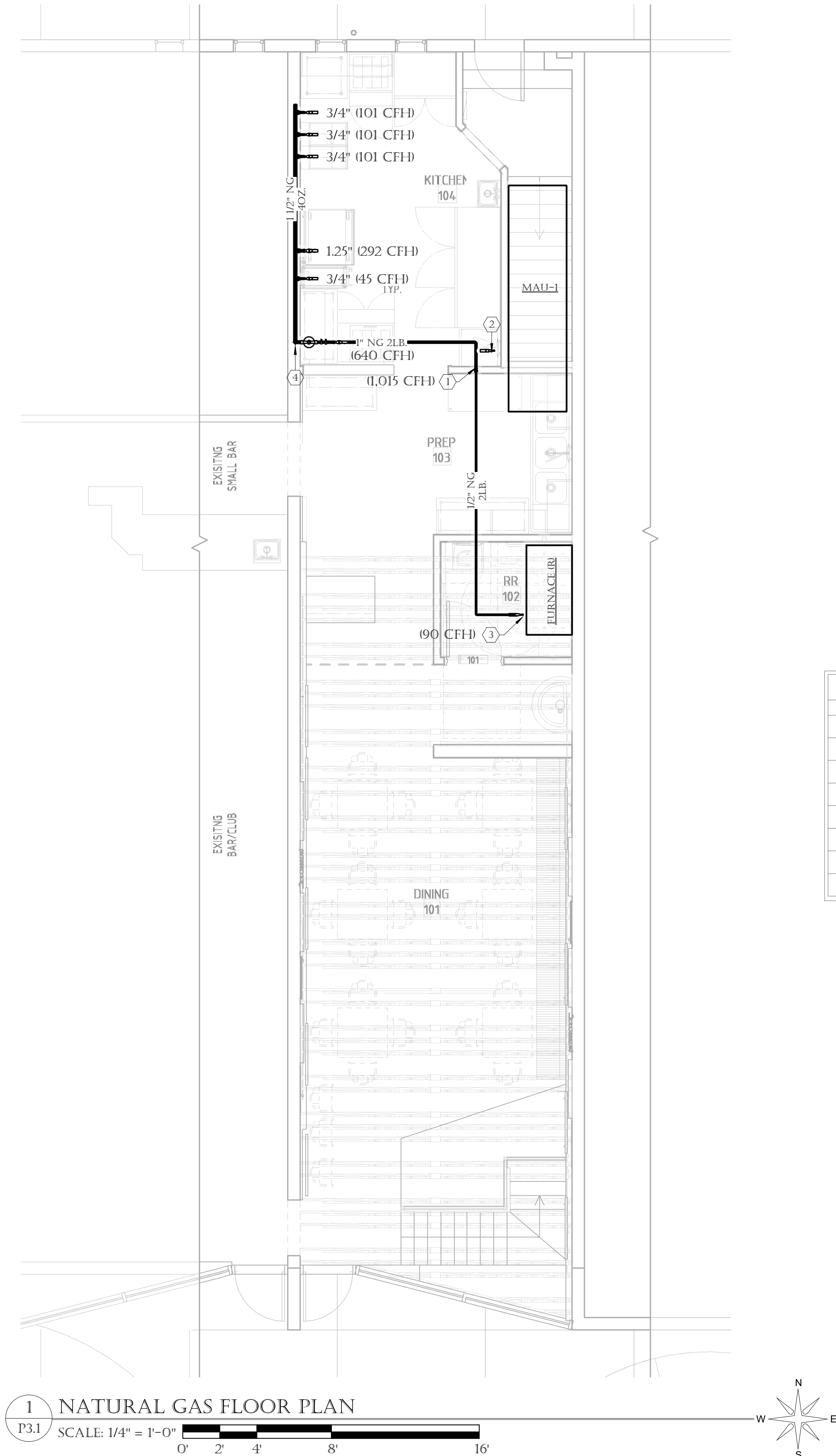
P2.1



RANGE  
RANGE ARCHITECTURE | DESIGN  
315 EAST HERMES DRIVE, SUITE 101, SLC, UT 84104  
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THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN, REPRODUCTION, DUPLICATION, COPYING, IMITATION, COMMERCIAL USE, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.



## KEYNOTES

1. 1" NATURAL GAS (2 LB) FROM BELOW. ROUTE PIPING TIGHT TO CEILING.
2. 1/2" NG (2LB) TO MAU-1. PROVIDE / INSTALL AN ISOLATION VALVE, VENTLESS PIETRO PRESSURE REGULATOR (2 LB TO 4 OZ) AND ALL FINAL CONNECTIONS TO MAU-1. PIPING SHALL NOT RESTRICT ACCESS.
3. 1/2" NG (2LB) TO RELOCATED FURNACE. PROVIDE / INSTALL AN ISOLATION VALVE, VENTLESS PIETRO PRESSURE REGULATOR (2 LB TO 4 OZ) AND ALL FINAL CONNECTIONS TO FURNACE. PIPING SHALL NOT RESTRICT ACCESS.
4. P.C. TO PROVIDE / INSTALL ISOLATION VALVE, VENTLESS PIETRO PRESSURE REGULATOR (2 LB TO 4 OZ) BEFORE DROPPING 1.5" NG PIPING # 02 DOWN WALL. P.C. SHALL INSTALL FIRE SUPPRESSION INTERLOCK VALVE BETWEEN ISOLATION VALVE AND PRESSURE REGULATOR.
5. PROVIDE / INSTALL CONNECTIONS BETWEEN 1.5" NG HEADER AND KEC PROVIDED EQUIPMENT.

## GENERAL NOTES

- KITCHEN COOKING EQUIPMENT WITH NATURAL GAS CONNECTIONS ARE PROVIDED BY K.E.C. K.E.C. WILL PROVIDE DORMONT GAS CONNECTION KITS FOR EACH PIECE OF EQUIPMENT. CONNECTIONS BETWEEN NG PIPING AND EQUIPMENT PROVIDED BY P.C.
- P.C. SHALL CONNECT TO EXISTING NG PIPING IN LOWER LEVEL. FIELD VERIFY EXACT LOCATION OF EXISTING PIPING.
- CONTRACTOR SHALL FIELD VERIFY TOTAL BTU OF ALL EXISTING FIXTURES AND SUBMIT DOCUMENTATION WHICH INCLUDES: ITEM DESCRIPTIONS, INLET BTU, PIPE SIZE, ROUTING, AND FIXTURE LOCATION INFORMATION TO PROJECT MANAGER / ENGINEER PRIOR TO BEGINNING ANY NATURAL GAS WORK.
- UPON COMPLETION OF NG SURVEY AND HAVING COORDINATED WITH ENGINEER, CONTRACTOR SHALL PROVIDE / INSTALL ALL NEW / EXISTING NATURAL GAS APPLIANCES WITH NEW PRESSURE REGULATORS (2 LB TO 4 OZ).

## NATURAL GAS CALCULATIONS

| DESCRIPTION               | NEW / EXIST       | AREA SERVED | INPUT MBH  | CFH  |
|---------------------------|-------------------|-------------|------------|------|
| F-1                       | EXIST - RELOCATED | DINING      | 80         | 90   |
| MAU-1                     | NEW               | HOOD #1     | 253.5      | 285  |
| FRYER                     | NEW               | HOOD #1     | 90         | 101  |
| FRYER                     | NEW               | HOOD #1     | 90         | 101  |
| FRYER                     | NEW               | HOOD #1     | 90         | 101  |
| RANGE                     | NEW               | HOOD #1     | 260        | 292  |
| CHARBROILER               | NEW               | HOOD #1     | 40         | 45   |
| TOTAL                     |                   |             | 903.5      | 1015 |
| HEATING VALUE             |                   |             | 890        |      |
| LENGTH OF RUN             |                   |             | 150'       |      |
| LINE SIZE                 |                   |             | 1" (EXIST) |      |
| EXISTING PRESSURE         |                   |             | 4 OZ.      |      |
| NEW PRESSURE              |                   |             | 2 LB.      |      |
| METER CAPACITY REQUEST    |                   |             | 1,250 CFH  |      |
| 2015 IFGC TABLE 402.4 (5) |                   |             |            |      |

## TAVERNACLE EXPANSION

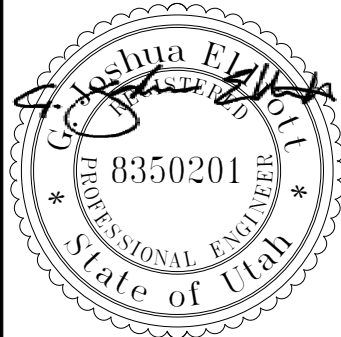
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SLC, UT 84111

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| DRAWN BY    | TJE          |
| CHECKED BY  | BNS          |
| SHEET TITLE |              |

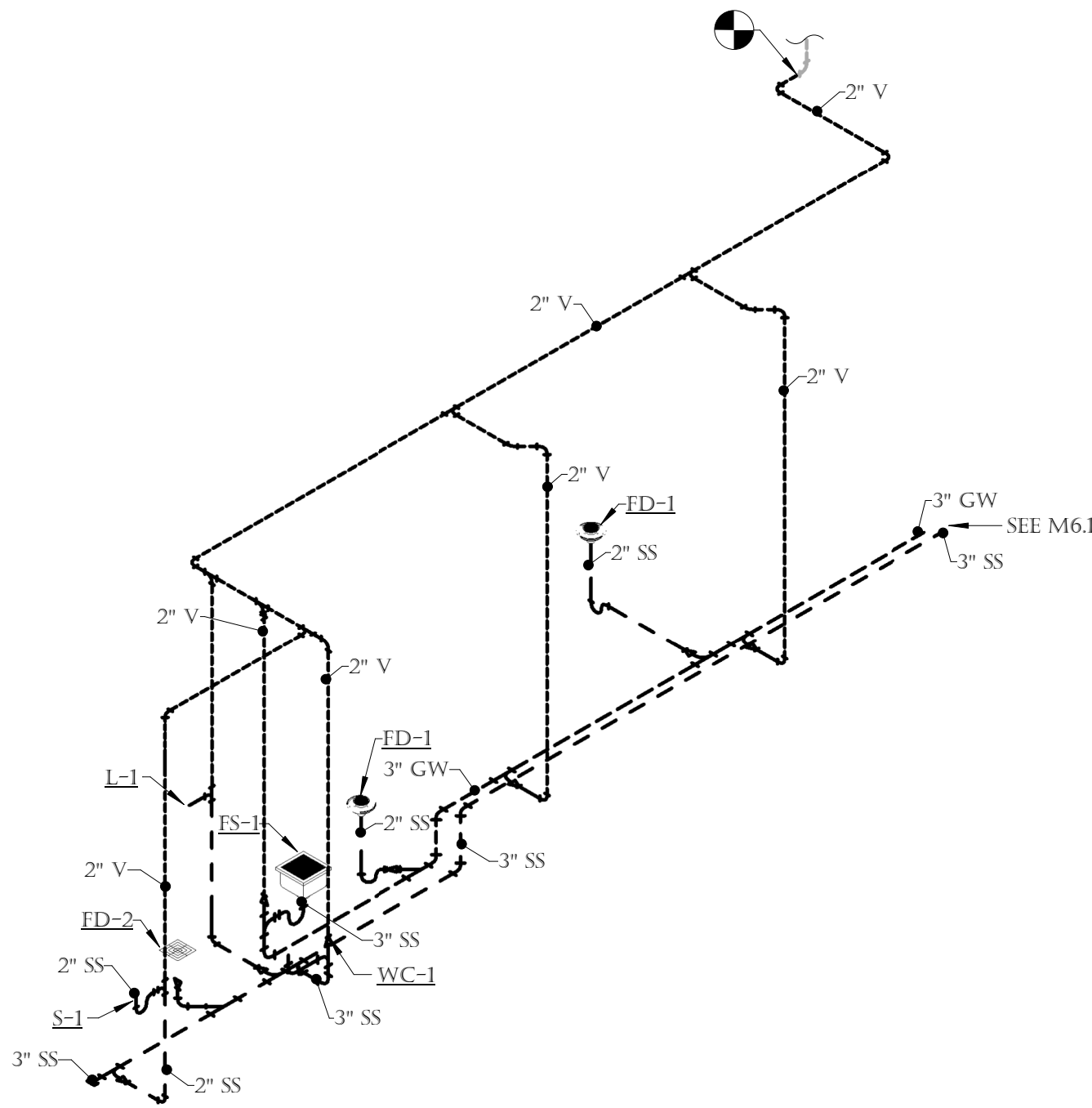
NATURAL GAS  
FLOOR PLAN

P3.1

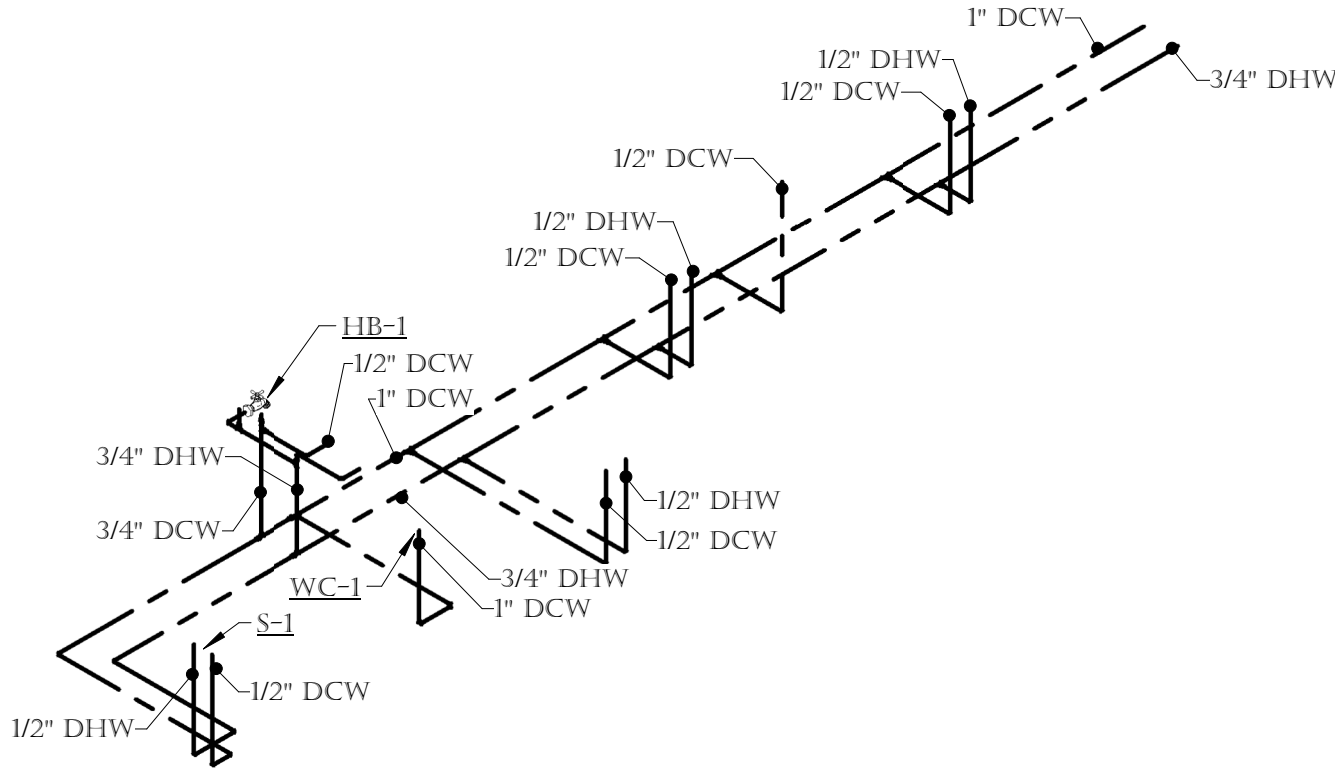
RANGE



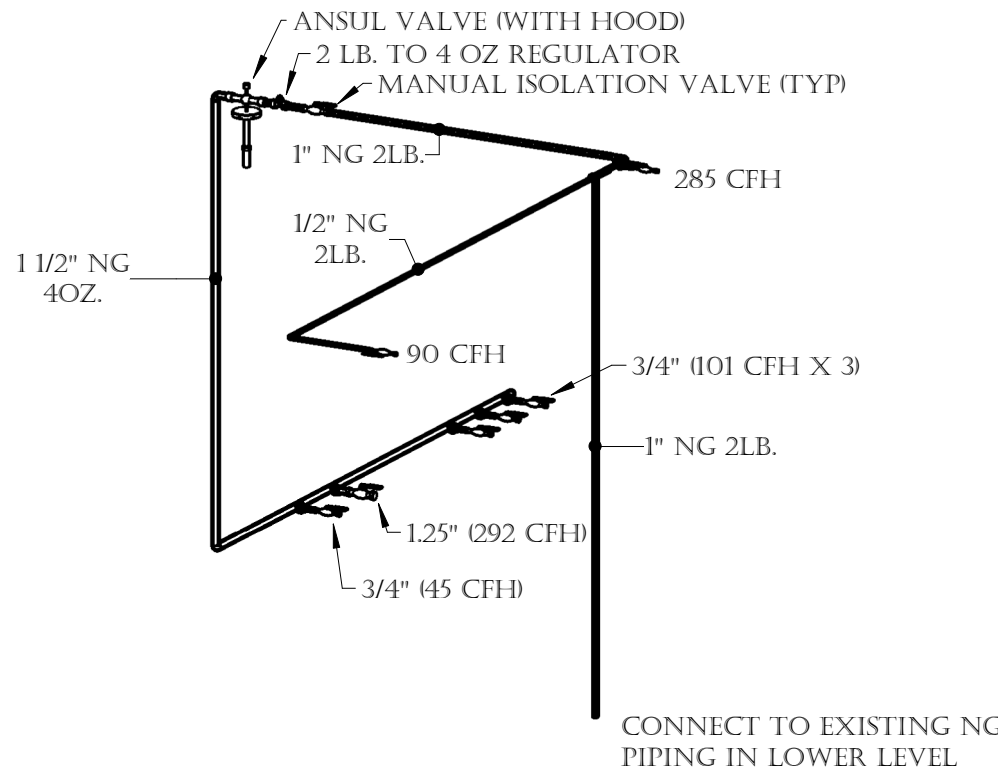




1 SANITARY ISO  
P9.1 SCALE: NOT TO SCALE



2 DOMESTIC ISO  
P9.1 SCALE: NOT TO SCALE



3 NATURAL GAS ISO ENLARGED  
P9.1 SCALE: NOT TO SCALE



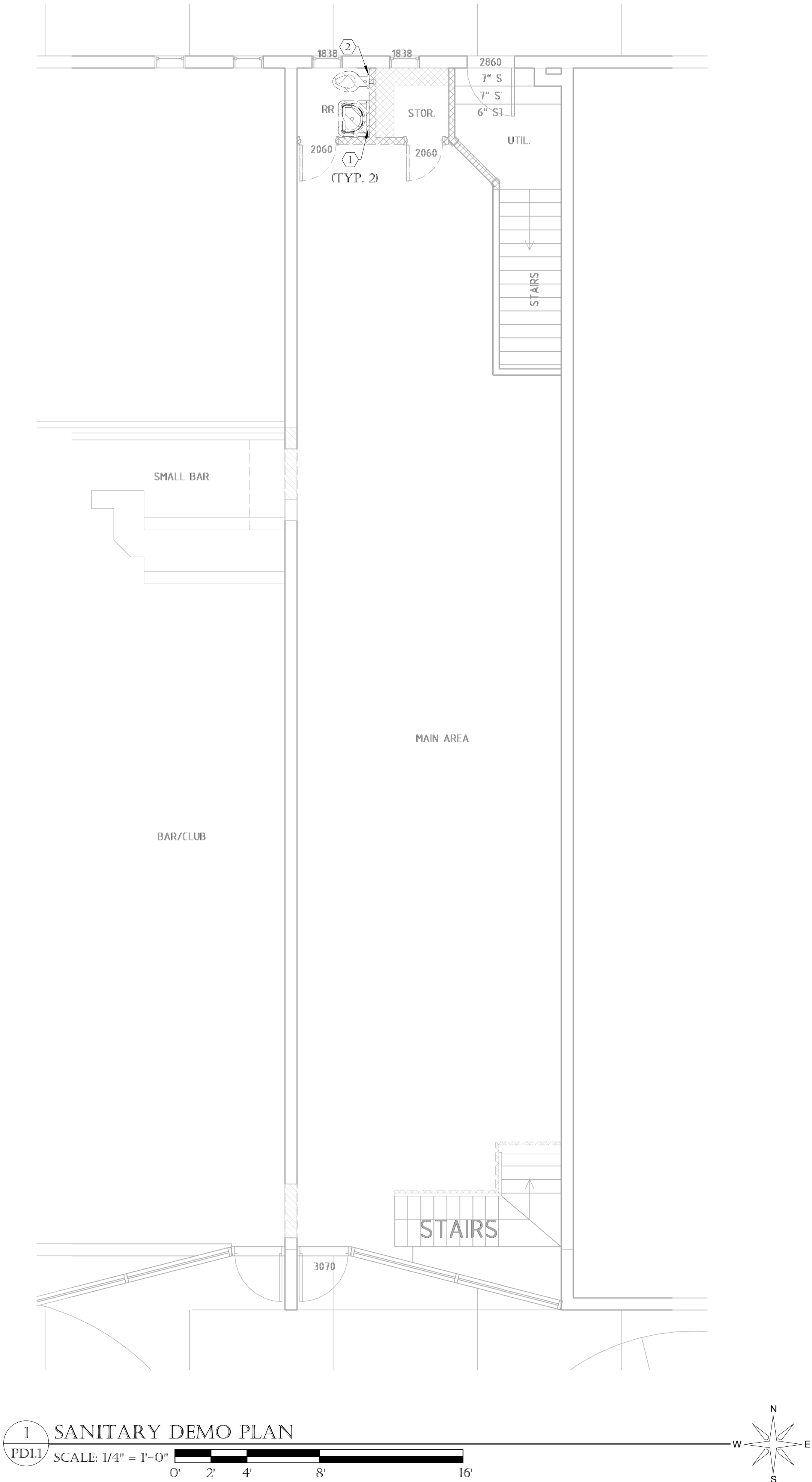
03/19/2018

TAVERNACLE EXPANSION  
207 BROADWAY  
SLC, UT 84111

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| DRAWN BY    | TJE          |
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| SHEET TITLE |              |

PLUMBING ISOS





### KEYNOTES

1. REMOVE SINK AND ALL ASSOCIATED PIPING. ONLY EXISTING VENT RISER TO REMAIN. SEE PL1 / P2.1.
2. REMOVE TOILET AND ALL ASSOCIATED PIPING. ONLY EXISTING VENT RISER TO REMAIN. SEE PL1 / P2.1.

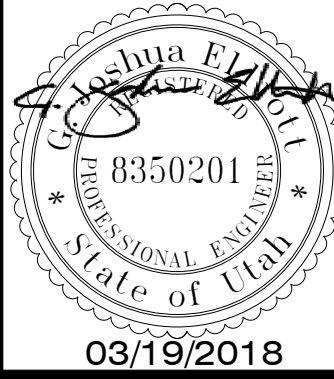
## TAVERNACLE EXPANSION

207 BROADWAY  
SLC, UT 84111

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| PROJECT     | PVE 17211.00 |
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| SHEET TITLE |              |

PLUMBING  
DEMO PLAN

PD1.1

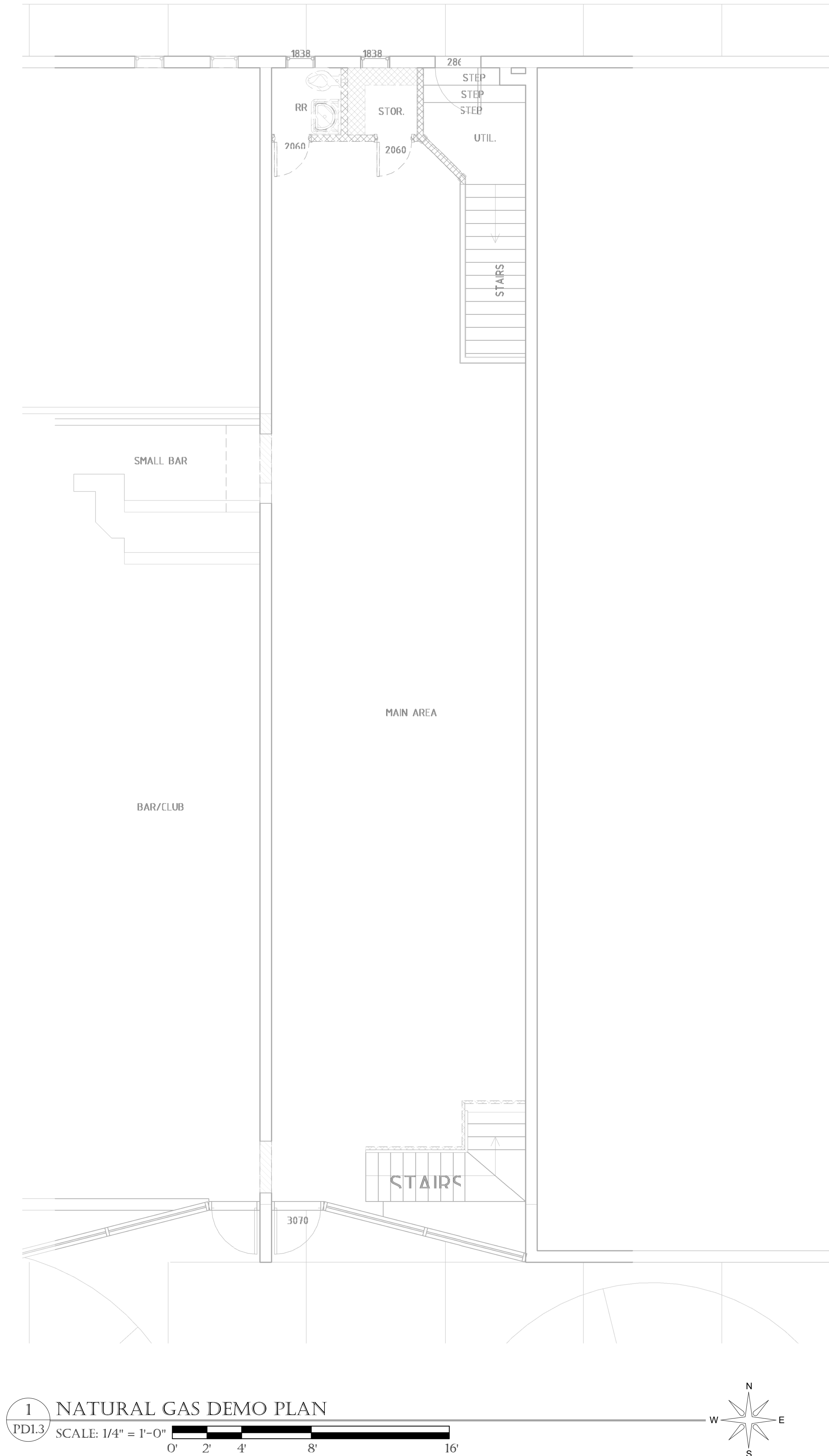


RANGE

RANGE ARCHITECTURE | DESIGN  
3115 EAST HERMES DRIVE, SLC, UT 84104  
WWW.RANGEARCHITECTURE.COM 801.565.9750



THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN, REPRODUCTION, DUPLICATION, COPYING, IMITATION, COMMERCIAL Y EXPLOITED, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.



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| PROJECT     | PVE 17211.00 |
| DRAWN BY    | TJE          |
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| SHEET TITLE |              |

NATURAL GAS  
DEMO PLAN

PD1.3



03/19/2018

RANGE

RANGE ARCHITECTURE | DESIGN  
3155 EAST HERMES DRIVE SLC, UT 84104  
WWW.RANGEARCHITECTURE.COM 801.585.5750



THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN, REPRODUCTION, DUPLICATION, COPYING, IMITATION, COMMERCIAL USE OF THESE DRAWINGS IS PROHIBITED. PROHIBIT USE OF THE DESIGN OR THE FULL EXTENT OF LEGAL ACTION.

| ELECTRICAL SYMBOLS                                                                  |                                                                                          |                 |                  |                                                                                                     |                 |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------|------------------|-----------------------------------------------------------------------------------------------------|-----------------|
| NOTE: SYMBOLS SHOWN IN THIS SCHEDULE ARE TYPICAL. NOT ALL ARE USED IN THIS PROJECT. |                                                                                          |                 |                  |                                                                                                     |                 |
| SYMBOL                                                                              | DESCRIPTION                                                                              | MOUNTING HEIGHT | SYMBOL           | DESCRIPTION                                                                                         | MOUNTING HEIGHT |
| ELECTRICAL WIRING                                                                   |                                                                                          |                 | LIGHTING CONTROL |                                                                                                     |                 |
|                                                                                     | CROSS LINES INDICATE NUMBER OF CONDUCTORS GROUNDING CONDUCTORS NOT INCLUDED.             | N/A             |                  | SINGLE POLE SWITCH                                                                                  | +48"            |
|                                                                                     | BRANCH CIRCUIT CONCEALED IN CEILING OR WALL                                              | N/A             |                  | 3-WAY SWITCH                                                                                        | +48"            |
|                                                                                     | BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR                                              | N/A             |                  | 4-WAY SWITCH                                                                                        | +48"            |
|                                                                                     | BRANCH CIRCUIT HOMERUNS TO PANEL w/PANEL & CIRCUIT NUMBER DESIGNATIONS.                  | N/A             |                  | SWITCH WITH PILOT LIGHT                                                                             | +48"            |
|                                                                                     | CONDUIT RISER UP                                                                         | N/A             |                  | DIMMER SWITCH                                                                                       | +16"            |
|                                                                                     | CONDUIT RISER DOWN                                                                       | N/A             |                  | KEYED SWITCH                                                                                        | +48"            |
|                                                                                     | CONDUIT STUB (CAP CONDUIT)                                                               | AS NOTED        |                  | DIGITAL TIMER SWITCH                                                                                | +48"            |
|                                                                                     | CABLE TRAY                                                                               | AS NOTED        |                  | MANUAL STARTER WITH THERMAL OVERLOAD                                                                | AS NOTED        |
|                                                                                     | BUS DUCT                                                                                 | AS NOTED        |                  | LOW VOLTAGE SWITCH                                                                                  | +48"            |
| ELECTRICAL POWER                                                                    |                                                                                          |                 | AUDIO / VIDEO    |                                                                                                     |                 |
|                                                                                     | JUNCTION BOX                                                                             | AS NOTED        |                  | CONTROLLING SWITCH (LETTER INDICATES CONTROL CIRCUIT)                                               | +48"            |
|                                                                                     | DUPLEX RECEPTACLE                                                                        | +16"            |                  | SINGLE POLE SWITCH OCCUPANCY SENSOR COMBINATION, MANUAL ON/AUTO OFF (WALL MOUNTED) DUAL TECHNOLOGY* | +48"            |
|                                                                                     | QUAD RECEPTACLE                                                                          | +16"            |                  | OCCUPANCY SENSOR DUAL TECHNOLOGY                                                                    | CEILING         |
|                                                                                     | SPLIT WIRED DUPLEX RECEPTACLE                                                            | +16"            |                  | TIME SWITCH                                                                                         | +60"            |
|                                                                                     | DUPLEX RECEPTACLE WEATHERPROOF AND GFCI                                                  | +16"            |                  | LIGHTING CONTACTOR                                                                                  | +60"            |
|                                                                                     | DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION               | +16"            |                  | PHOTOCELL                                                                                           | AS NOTED        |
|                                                                                     | RECEPTACLE ELECTRIC WATER COOLER (EWC) WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION | +16"            | LIGHTING         |                                                                                                     |                 |
|                                                                                     | EQUIPMENT RECEPTACLE                                                                     | +16"            |                  | FLUORESCENT FIXTURE (TYPICAL)                                                                       | CEILING         |
|                                                                                     | SPECIAL PURPOSE RECEPTACLE                                                               | +16"            |                  | FLUORESCENT EMERGENCY FIXTURE (TYPICAL)                                                             | CEILING         |
|                                                                                     | DUPLEX RECEPTACLE FLOOR                                                                  | FLOOR           |                  | SURFACE MOUNTED FIXTURE                                                                             | CEILING         |
|                                                                                     | QUAD RECEPTACLE FLOOR                                                                    | FLOOR           |                  | RECESSED FIXTURE                                                                                    | CEILING         |
|                                                                                     | FIRE RATED POKE THROUGH                                                                  | FLOOR           |                  | WALL MOUNTED FIXTURE                                                                                | AS NOTED        |
|                                                                                     | POWER/TELEPHONE POLE                                                                     | FLOOR           |                  | WALL MOUNTED EMERGENCY EGRESS FIXTURE                                                               | AS NOTED        |
|                                                                                     | MULTI-OUTLET WIREWAY                                                                     | +48"            |                  | FLUORESCENT STRIP                                                                                   | CEILING         |
| ELECTRICAL CONNECTIONS                                                              |                                                                                          |                 |                  | TRACK LIGHTING                                                                                      | CEILING         |
|                                                                                     | EMERGENCY LIGHTING UNIT                                                                  | +48"            |                  | SMOKE DETECTOR BATTERY-BACKED                                                                       | CEILING         |
|                                                                                     | NON-FUSED DISCONNECT SWITCH                                                              | TOP AT 6'-0"    |                  | DUCT SMOKE DETECTOR                                                                                 | IN DUCT         |
|                                                                                     | FUSED DISCONNECT SWITCH                                                                  | TOP AT 6'-0"    |                  | SMOKE DETECTOR (ELEVATOR RECALL)                                                                    | CEILING         |
|                                                                                     | MOTOR STARTER/DISCONNECT SWITCH COMBINATION NON-FUSED                                    | TOP AT 6'-0"    |                  | HEAT DETECTOR - CO2                                                                                 | CEILING         |
|                                                                                     | MOTOR STARTER/DISCONNECT SWITCH COMBINATION FUSED                                        | TOP AT 6'-0"    |                  | GAS DETECTOR                                                                                        | +16"            |
|                                                                                     | MOTOR STARTER ONLY                                                                       | TOP AT 6'-0"    |                  | DOOR HOLDER                                                                                         | AS NOTED        |
|                                                                                     | VARIABLE FREQUENCY DRIVE                                                                 | +78"            |                  | PRESSURE SWITCH                                                                                     | AS NOTED        |
|                                                                                     | MOTOR CONNECTION                                                                         | AS NOTED        |                  | FIRE ALARM FLOW SWITCH                                                                              | AS NOTED        |
| ELECTRICAL DISTRIBUTION                                                             |                                                                                          |                 |                  | FIRE ALARM TAMPER SWITCH                                                                            | AS NOTED        |
|                                                                                     | TELEPHONE COMPANY PEDESTAL                                                               | AS NOTED        |                  | FIRE ALARM FIREFIGHTER PHONE                                                                        | +48"            |
|                                                                                     | POWER COMPANY GROUND SLEEVE                                                              | AS NOTED        | SECURITY         |                                                                                                     |                 |
|                                                                                     | POWER COMPANY SITE TRANSFORMER                                                           | AS NOTED        |                  | SECURITY SYSTEM DOOR CONTACT                                                                        | DOOR JAMB       |
|                                                                                     | HIGH VOLTAGE (277/480 VOLT) PANELBOARD                                                   | TOP AT 6'-0"    |                  | SECURITY SYSTEM OVERHEAD DOOR CONTACT                                                               | AS NOTED        |
|                                                                                     | LOW VOLTAGE (120/208 VOLT) PANELBOARD                                                    | TOP AT 6'-0"    |                  | SECURITY SYSTEM KEYPAD ARM/DISARM                                                                   | +48"            |
|                                                                                     | DRY TYPE TRANSFORMER                                                                     | AS NOTED        |                  | SECURITY SYSTEM DOOR ELECTRIC STRIKE                                                                | AS NOTED        |
|                                                                                     | DISTRIBUTION SWITCHBOARD                                                                 | AS NOTED        |                  | SECURITY SYSTEM MAGNETIC DOOR LOCK                                                                  | AS NOTED        |
|                                                                                     | TELEPHONE AND/OR DATA TERMINAL BOARD                                                     | AS NOTED        |                  | REQUEST TO EXIT MOTION DETECTOR                                                                     | AS NOTED        |
| ELECTRICAL DEVICES                                                                  |                                                                                          |                 |                  | SECURITY SYSTEM AREA MOTION SENSOR                                                                  | AS NOTED        |
|                                                                                     | PUSHBUTTON                                                                               | +48"            |                  | SECURITY SYSTEM GLASS BREAK SENSOR                                                                  | AS NOTED        |
|                                                                                     | STOP/START STATION                                                                       | +48"            |                  | SECURITY SYSTEM CARD READER                                                                         | +48"            |
|                                                                                     | *EMERGENCY POWER OFF* MUSHROOM TYPE BUTTON                                               | +48"            |                  | REVISION TAG INDICATOR                                                                              | +48"            |
|                                                                                     | LINE VOLTAGE THERMOSTAT                                                                  | +48"            |                  | DETAIL INDICATOR, TOP DETAIL IDENTIFICATION BOTTOM INDICATES SHEET WHERE DETAIL IS LOCATED.         | AS NOTED        |
|                                                                                     | NURSE CALL BED/BATH STATION                                                              | +48"            |                  | MECHANICAL EQUIPMENT SYMBOL                                                                         | N/A             |
|                                                                                     | NURSE CALL LIGHT                                                                         | +84"            |                  | KEYED NOTE REFERENCE                                                                                | N/A             |
|                                                                                     | NURSE CALL STATION PANEL                                                                 | TOP AT 6'-0"    |                  | SECURITY SYSTEM CCTV MONITOR                                                                        | AS NOTED        |
|                                                                                     |                                                                                          |                 |                  | SECURITY SYSTEM PANEL                                                                               | TOP AT 6'-0"    |
|                                                                                     |                                                                                          |                 |                  | POWER SUPPLY LOW VOLTAGE                                                                            | AS NOTED        |

| ABBREVIATIONS                                                                          |                              |                                           |                                         |
|----------------------------------------------------------------------------------------|------------------------------|-------------------------------------------|-----------------------------------------|
| AFF ABOVE FINISHED FLOOR                                                               | (D) DEMOLISH/DELETE          | GND GROUND                                | OFOI OWNER FURNISHED OWNER INSTALLED    |
| AFP ARC FAULT PROTECTOR                                                                | E EMERGENCY                  | GRC GALVANIZED RIGID CONDUIT              | PNL PANEL                               |
| AIC AMP INTERRUPTING CURRENT (SYMMETRICAL)                                             | (EX) EXISTING                | IG ISOLATED GROUND                        | (R) RELOCATE                            |
| AL ALUMINUM                                                                            | EPO EMERGENCY POWER OFF      | MCB MAIN CIRCUIT BREAKER                  | (RM) REMOVE AND RETURN TO OWNER         |
| BG BELOW GRADE                                                                         | EWC ELECTRIC WATER COOLER    | MCC MOTOR CONTROL CENTER                  | TR TAMPER RESISTANT                     |
| C CONDUIT                                                                              | EWH ELECTRIC WATER HEATER    | MH MANHOLE                                | TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED                                         | (F) FUTURE                   | MLO MAIN LUGS ONLY                        | TVS TYPICAL                             |
| CKT CIRCUIT                                                                            | FA FIRE ALARM                | (N) NEW                                   | UNO UNLESS NOTED OTHERWISE              |
| CO CONDUIT ONLY                                                                        | FLA FULL LOAD AMPS           | NIC NOT IN CONTRACT                       | WP WEATHER PROOF                        |
| CU COPPER                                                                              | CFI GROUND FAULT INTERRUPTER | NL NIGHT LIGHT                            | XMR TRANSFORMER                         |
| CW COMPLETE WITH                                                                       | GFP GROUND FAULT PROTECTOR   | OFCI OWNER FURNISHED CONTRACTOR INSTALLED |                                         |
| * THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT. |                              |                                           |                                         |

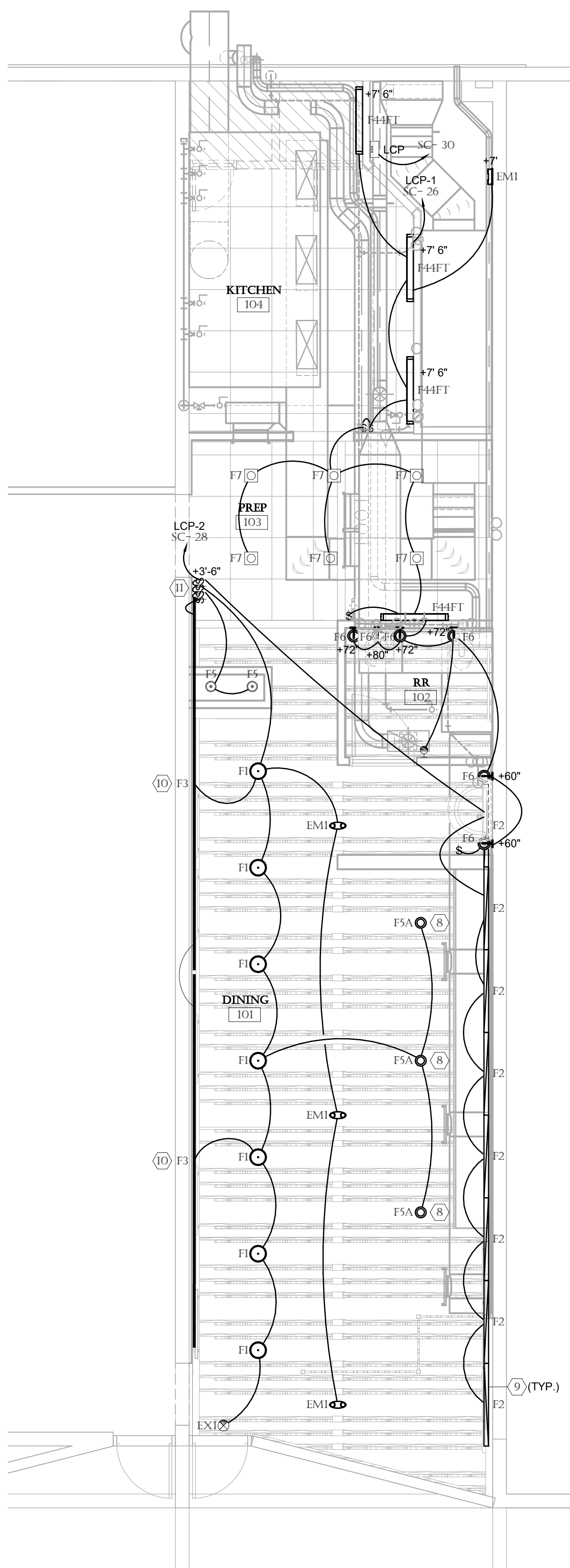
| GENERAL NOTES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.            | THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2.            | SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.                                                                                                                                                                                                                            |
| 3.            | IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURERS CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN AND SPECIFICATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4.            | CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5.            | ALL IMPACT FEES ASSOCIATED WITH CITY, UTILITY OR SERVICE COMPANIES FOR BUT NOT LIMITED TO POWER, TELEPHONE, FIBER OPTIC & INTERNET SHALL BE THE RESPONSIBILITY OF THE OWNER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 6.            | THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY POWER FOR PROJECT CONSTRUCTION AS REQUIRED. ALL ENERGY COSTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 7.            | DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8.            | ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTS ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH IN OF ELECTRICAL DEVICE JUNCTION BOXES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 9.            | CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 10.           | ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 11.           | VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12.           | ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 13.           | ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE DRAWINGS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 14.           | CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 15.           | WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16.           | WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 17.           | FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 18.           | ALL EMPLY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 19.           | ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH UL LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 20.           | ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 21.           | WIRE FOR GENERAL USE SHALL BE COPPER 75°C RATED. WIRING FOR HID FIXTURES WITHIN 3" OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90°C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30°C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 22.           | CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP AS PER PLANS AND DIRECT ROUTING. ANY DEVIATION IN CONDUIT ROUTING MAY INCREASE THE WIRE AND CONDUIT SIZE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSURE PROPER OPERATING VOLTAGE ON ALL CIRCUITS BOTH INTERIOR AND EXTERIOR. THE VOLTAGE DROP SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS FOR A TOTAL OF 5% COMBINED TOGETHER OF BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.                                                                                                                                                                                                                                                                                                                                 |
| 23.           | ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 24.           | VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "BLUE STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS. |
| 25.           | PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 26.           | SPICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPlice KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 27.           | ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO INSURE PROPER OPERATION. IF TESTS RESULT IN DEFECT THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 28.           | PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 29.           | THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| SHEET LIST |                             |
|------------|-----------------------------|
| E100       | ELECTRICAL NOTES / SYMBOLS  |
| E201       | MAIN LEVEL ELECTRICAL PLANS |
| E301       | ELECTRICAL SECTIONS         |
| E401       | ONE LINE DIAGRAM & RISERS   |
| E501       | ELECTRICAL SCHEDULES        |
| E502       | ELECTRICAL SCHEDULES        |
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| ELECTRICAL SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| <b>SECTION 16000 - GENERAL PROVISIONS</b><br><br>WORK CONSISTS OF FURNISHING LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF ELECTRICAL WORK SHOWN IN THE CONTRACT DOCUMENTS AND SPECIFIED IN DIVISION 16.<br><br>INCLUDE ALL PARTS AND LABOR, WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS. SUCH ITEMS INCLUDE NUTS, BOLTS, NAIL ANCHORS, BRACKETS, SLEEVES, OFFSETS IN CONDUIT, FITTINGS, RELAYS, ETC.<br><br>REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING AGENCIES OF INSTALLATIONS OF PLANS AND SPECIFICATIONS.<br><br>INCLUDE STATE AND LOCAL SALES TAXES IN THE BID. KEEP ACCURATE RECORDS OF THESE TAXES AND FURNISH SUCH RECORDS TO THE OWNER UPON REQUEST.<br><br>MEET OR EXCEED ALL CURRENT APPLICABLE CODES, ORDINANCES AND REGULATIONS FOR ALL INSTALLATIONS. PROMPTLY NOTIFY THE ENGINEER IN WRITING, IF THE CONTRACT DOCUMENTS APPEAR TO CONFLICT WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COSTS FOR CORRECTING NON-COMPLYING WORK INSTALLED WITHOUT NOTIFYING THE ENGINEER.<br><br>HIGHER QUALITY OF WORKMANSHIP AND MATERIALS INDICATED IN THE CONTRACT DOCUMENTS TAKES PRECEDENCE OVER THAT ALLOWED IN REFERENCED CODES AND STANDARDS.<br><br>THE TERMS DEFINED BELOW APPLY TO ALL WORK INCLUDED IN DIVISION 16:<br><br>a. THE WORK - AS DEFINED IN THE 1997 AIA DOCUMENT A201, "THE TERM "WORK" MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS WHETHER COMPLETED OR PARTIALLY COMPLETED, AND INCLUDES ALL OTHER LABOR, MATERIALS, EQUIPMENT AND SERVICES PROVIDED OR TO BE PROVIDED BY THE CONTRACTOR TO FULFILL THE CONTRACTORS OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT".<br><br>b. FURNISH - TO OBTAIN IN NEW CONDITION READY FOR INSTALLATION INTO THE WORK.<br><br>c. INSTALL - TO STORE, SET IN PLACE, CONNECT AND PLACE INTO OPERATION INTO THE WORK.<br><br>d. PROVIDE - TO FURNISH AND INSTALL.<br><br>e. CONNECT - TO BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENT INCLUDING NECESSARY SWITCHES, OUTLETS, BOXES, TERMINATIONS, ETC.<br><br>f. CONDUIT - INCLUDES IN ADDITION TO CONDUIT, ALL FITTINGS, PULL BOXES, HANGERS AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH CONDUIT.<br><br>g. CONCEALED - HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES OR BURIED.<br><br>h. EXPOSED - NOT INSTALLED UNDERGROUND NOR CONCEALED AS DEFINED ABOVE.<br><br>THE DRAWINGS AND SPECIFICATIONS CONSTITUTE THE CONTRACT DOCUMENTS. ANY ITEM NOTED IN THE SPECIFICATION OR SHOWN ON THE DRAWINGS IS INCLUDED IN THE CONTRACT DOCUMENTS.<br><br>ALL ELECTRICAL DETAILS AND DRAWINGS ARE DIAGRAMMATIC. UNLESS SPECIFICALLY NOTED, FIELD VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. IN WRITING, PRIOR TO INSTALLATION.<br><br>INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS REQUIRED WITH THIS WORK IN ACCORDANCE WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OTHER GOVERNING AGENCIES.<br><br>DO NOT REMOVE OR DISTURB ANY ASBESTOS CONTAINING MATERIALS FROM THE PROJECT. IMMEDIATELY STOP WORK AND NOTIFY THE TENANT IF ASBESTOS CONTAINING MATERIALS ARE SUSPECTED.<br><br>BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED, EXAMINE THE SITE OF THE PROPOSED WORK AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND LIMITATIONS. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED NOR BIDDERS LACK OF KNOWLEDGE OF EXISTING CONDITIONS WHICH COULD HAVE BEEN DISCOVERED OR REASONABLY ANTICIPATED PRIOR TO BIDDING.<br><br>CONDUITS, PIPES, DUCTS, LIGHTS, DEVICES, SPEAKERS, ETC., SHOWN ON THE DRAWINGS AS EXISTING HAVE BEEN BASED ON THE EXISTING PLANS AND MAY NOT BE INSTALLED AS ORIGINALLY SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND MAKE EXACT DETERMINATION OF THE EXISTENCE, LOCATION AND CONDITION OF SUCH FACILITIES PRIOR TO SUBMITTING A BID.<br><br>CONSULT THE DRAWINGS AND SPECIFICATIONS OF MECHANICAL AND OTHER TRADES FOR CORRELATING INFORMATION AND LAY OUT WORK SO THAT IT WILL COORDINATE WITH THE OTHER TRADES. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC. REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS.<br><br>INSTALL ALL CONDUIT, CABLE TRAY, BUSDUCT, EQUIPMENT, ETC. ALLOWING PROPER CODE AND MAINTENANCE CLEARANCES AND TO AVOID BLOCKING PASSAGEWAYS AND ACCESS PANELS.<br><br>WHERE WORK MUST BE REPLACED DUE TO FAILURE OF THE CONTRACTOR TO VERIFY THE CONDITIONS EXISTING ON THE JOB, SUCH REPLACEMENT MUST BE ACCOMPLISHED AT NO COST TO THE OWNER. THIS APPLIES TO SHOP FABRICATED WORK AS WELL AS TO WORK FABRICATED IN PLACE.<br><br>THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE INSTALLATION MAY BE REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE OWNER, WHERE SUCH ADJUSTMENTS ARE NECESSARY TO THE PROPER INSTALLATION AND OPERATION WITHIN THE INTENT OF THE CONTRACT DOCUMENTS. THIS DOES NOT INCLUDE WORK ALREADY COMPLETED.<br><br>OBTAIN EXACT LOCATION OF CONNECTION TO EQUIPMENT, FURNISHED BY OTHERS, FROM THE PERSON FURNISHING THE EQUIPMENT, DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN EITHER ONE IS AS BINDING AS IF CALLED FOR IN BOTH.<br><br>INCLUDE THE BETTER QUALITY, GREATER QUANTITY OR HIGHER COST FOR AN ITEM OR ARRANGEMENT WHERE A DISAGREEMENT EXISTS IN THE DRAWINGS AND SPECIFICATIONS.<br><br>GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION FOR THE PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF THE WORK AS EVIDENCED BY ISSUANCE OF THE FINAL CERTIFICATE BY THE OWNER.<br><br>DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE OWNER. INCLUDE DAMAGE TO THE FINISH OR THE BUILDING RESULTING FROM THE ORIGINAL DEFECT OR REPAIRS.<br><br>REPLACE ALL RECEPTABLES, SWITCHES, COVERPLATES, ETC. DAMAGED BY ANY CONTRACTOR DURING THE COURSE OF CONSTRUCTION.<br><br>MATERIALS FURNISHED FOR THE TEMPORARY LIGHT AND POWER SYSTEM REMAIN CONTRACTORS PROPERTY. REMOVE WHEN THERE IS NO LONGER ANY NEED FOR TEMPORARY LIGHT AND POWER.<br><br>COORDINATE/SCHEDULE ALL WORK WITH THE OWNER TO MINIMIZE ANY DISRUPTIONS. CONFINE ALL INTERRUPTIONS TO THE SMALLEST POSSIBLE AREA. PROVIDE TEMPORARY CONNECTIONS IF REQUIRED TO PROVIDE CONTINUITY OF SERVICE. | INSPECT ALL AREAS AFFECTED BY THE INTERRUPTIONS AND RETURN ALL AUTOMATICALLY CONTROLLED EQUIPMENT, ELECTRICALLY OPERATED EQUIPMENT TO THE SAME OPERATING CONDITION PRIOR TO THE INTERRUPTION.<br><br>DO NOT DISTURB NORMAL USE OF THE FACILITY, EXCEPT WITHIN THE IMMEDIATE CONSTRUCTION AREA. KEEP WALKS, DRIVEWAYS, ENTRANCES, ETC. FREE AND CLEAR OF EQUIPMENT, MATERIAL AND DEBRIS.<br><br>STORE ALL EQUIPMENT AND MATERIAL IN A PLACE AND MANNER THAT MINIMIZES CONGESTION AND IS APPROVED BY THE OWNER.<br><br>PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER.<br><br>PROVIDE THE HIGHEST QUALITY WORKMANSHIP AND PERFORM ALL WORK ONLY BY SKILLED MECHANICS. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, INSTRUCTIONS AND CURRENT NECA STANDARDS.<br><br>THE OWNER RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE SPECIFICATIONS, BEFORE OR AFTER INSTALLATION.<br><br>PERFORM ALL CUTTING AND PATCHING NECESSARY TO WORK, UNLESS SPECIFICALLY DELEGATED TO THE GENERAL CONTRACTOR. OBTAIN SPECIAL PERMISSION FROM THE LANDLORD BEFORE CUTTING STRUCTURAL MEMBERS OR FINISHED MATERIAL. PERFORM ALL PATCHING IN SUCH A MANNER AS TO LEAVE NO VISIBLE TRACE AND RETURN THE AREA AFFECTED TO THE CONDITION OF UNDISTURBED WORK. PERFORM ALL PATCHING BY WORKERS EXPERIENCED, SKILLED, AND LICENSED FOR THE PARTICULAR TYPE OF WORK INVOLVED. INTERIOR WORK WILL NOT BE ACCEPTED.<br><br>PATCH ALL HOLES LEFT AS A RESULT OF DEMOLITION OF ELECTRICAL EQUIPMENT AND DEVICES.<br><br>PREVENT THE SPREAD OF DUST, DEBRIS, AND OTHER MATERIAL INTO ADJACENT AREAS.<br><br>REFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING AND/OR INSTALLATION TO ITS ORIGINAL CONDITION. REMOVE ALL RUST, PRIME, AND PAINT PER MANUFACTURERS RECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.<br><br>AFTER TESTS HAVE BEEN MADE AND ACCEPTED, CLEAN LIGHT FIXTURES, PANELS AND OTHER EQUIPMENT INSTALLED BY THE CONTRACTOR, LEAVING THE ENTIRE WORK AREA IN A CLEAN AND COMPLETE WORKING ORDER.<br><br>OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES. TO VERIFY PROPER OPERATION, PRIOR TO FINAL INSPECTION AND OWNER INSTRUCTIONS, NOTIFY THE ENGINEER, IN WRITING, THAT ALL SYSTEMS HAVE BEEN TESTED AND ARE FUNCTIONING AND OPERATING PROPERLY.<br><br>CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL EQUIPMENT OR MATERIALS UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER.<br><br>PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS, INCLUDING TELEPHONE AND DATA SYSTEMS, IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.<br><br>EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS, NOTIFY AND OBTAIN PERMISSION FROM OWNER/ENGINEER AT LEAST 24 HOURS BEFORE PARTIALLY OR DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.<br><br>EXISTING TELEPHONE, DATA, CCTV & SECURITY SYSTEM MAINTAIN EXISTING SYSTEMS IN SERVICE.<br><br>DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER AND THIS SECTION, AND AS INDICATED ON THE DRAWINGS. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.<br><br>PROVIDE SUPPORTS FOR ALL EXISTING ELECTRICAL EQUIPMENT THAT WAS SUPPORTED PREVIOUSLY BY DEMOLISHED WALLS, FLOORS, CEILING OR OTHER STRUCTURES. PROVIDE NEW SUPPORTS FROM STRUCTURAL MEMBERS NOT SLATED FOR DEMOLITION, PRIOR TO ANY DEMOLITION.<br><br>OWNER RESERVES THE RIGHT OF FIRST REFUSAL TO OBTAIN MATERIAL SHOWN TO BE REMOVED UNDER THIS CONTRACT. ITEMS NOT RETAINED BY THE OWNER BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PREMISES.<br><br>EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED, RELOCATE AND REROUTE CONDUIT AND WIRING AS REQUIRED FOR CONDUIT CONCEALED IN WALLS OR STRUCTURE BEING DEMOLISHED OR THE REMODELING. MAINTAIN CONTINUITY TO ALL DEVICES IN AND DOWNSTREAM OF REMODELED WORK.<br><br>REROUTE EXISTING RACEWAY AND WIRING, WHICH IS EXPOSED DUE TO REMOVAL OF EXISTING CONSTRUCTION. CONCEAL NEW RACEWAY AND WIRING AND MAINTAIN OPERATION.<br><br><b>SECTION 16050 - BASIC MATERIALS AND METHODS</b><br><br>ENCASE ALL CONDUCTORS IN A CONTINUOUS RACEWAY SYSTEM. PROVIDE PULL AND JUNCTION BOXES AS REQUIRED BY THE NEC. SIZE ALL RACEWAY PER THE NEC WITH OVERSIZED CONDUITS AS INDICATED.<br><br>PROVIDE JUNCTION BOXES OR GUTTER AT BRANCH PANEL AND ROUTE EMT CONDUIT INTO PANELBOARD.<br><br>PROVIDE EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.<br><br>RUN ALL EXPOSED CONDUIT IN A NEAT, WORKMANLIKE MANNER PARALLEL TO THE BUILDING LINES, TIGHT TO THE WALL AND CEILING SURFACES, AND FIRMLY SUPPORT WITH CONDUIT CLAMPS OR HANGERS. PROVIDE TWO (2) HOLE MOUNTING STRAPS, MINIMUM THREE (3) FEET ON CENTER, FOR ALL SURFACE CONDUIT MOUNTED ON WALLS LESS THAN SIX (6) FEET ABOVE FINISHED FLOOR. PLACE CONDUITS AT LEAST 6" AWAY FROM ALL HOT PIPING AND SURFACES INCLUDING DOMESTIC HOT WATER LINES.<br><br>PROVIDE GALVANIZED CODE GAUGE STEEL JUNCTION AND PULL BOXES WITH SCREW ON COVERS OF TYPE, SHAPE AND SIZE REQUIRED TO SUIT EACH INSTALLATION. PROVIDE GASKETING IN DAMP AND DUSTY LOCATIONS.<br><br>PROVIDE 4" BOXES THROUGHOUT. PROVIDE 3" DEEP BOXES WHERE INSTALLED IN MASONRY, 2.5" MINIMUM ELSEWHERE. VAPOR TIGHT GANG MUD OR TILE RING FOR SINGLE DEVICES.<br><br>COORDINATE THE LOCATION OF ALL OUTLETS WITH MECHANICAL DRAWINGS BEFORE INSTALLATION.<br><br>PROVIDE WIRE AND CABLE WITH INSULATION VOLTAGE RATING EQUAL TO OR GREATER THAN THE APPLIED SYSTEM VOLTAGE. PROVIDE SOLID OR STRANDED COPPER CONDUCTORS WITH TYPE THIN, THIN, OR XHHW INSULATION FOR NO. 12 AWG AND NO. 10 AWG CONDUCTORS. PROVIDE MINIMUM NO. 12 AWG CONDUCTOR SIZE, UNLESS NOTED OTHERWISE. USE THE MINIMUM CONDUCTOR SIZE WHEN NO SIZE IS INDICATED. ALL CONDUCTORS TO BE COLOR-CODED.<br><br><b>SECTION 16051 - BUILDING LIGHTING</b><br><br>PROVIDE LIGHTING FIXTURES AS SCHEDULED OW HOUSING LAMPS, LAMP HOLDERS, REFLECTORS, BALLASTS & WIRING.<br><br>FLUORESCENT LAMP BALLAST FOR T8 & T5 LAMPS SHALL BE ELECTRONIC CDM CERTIFIED W/HD LESS THAN 20% RAPID START.<br><br>SUPPORT ALL RECESSED LIGHTING FIXTURES W/ # 12GA WIRES INDEPENDENT FROM CEILING SUPPORT SYSTEM. |



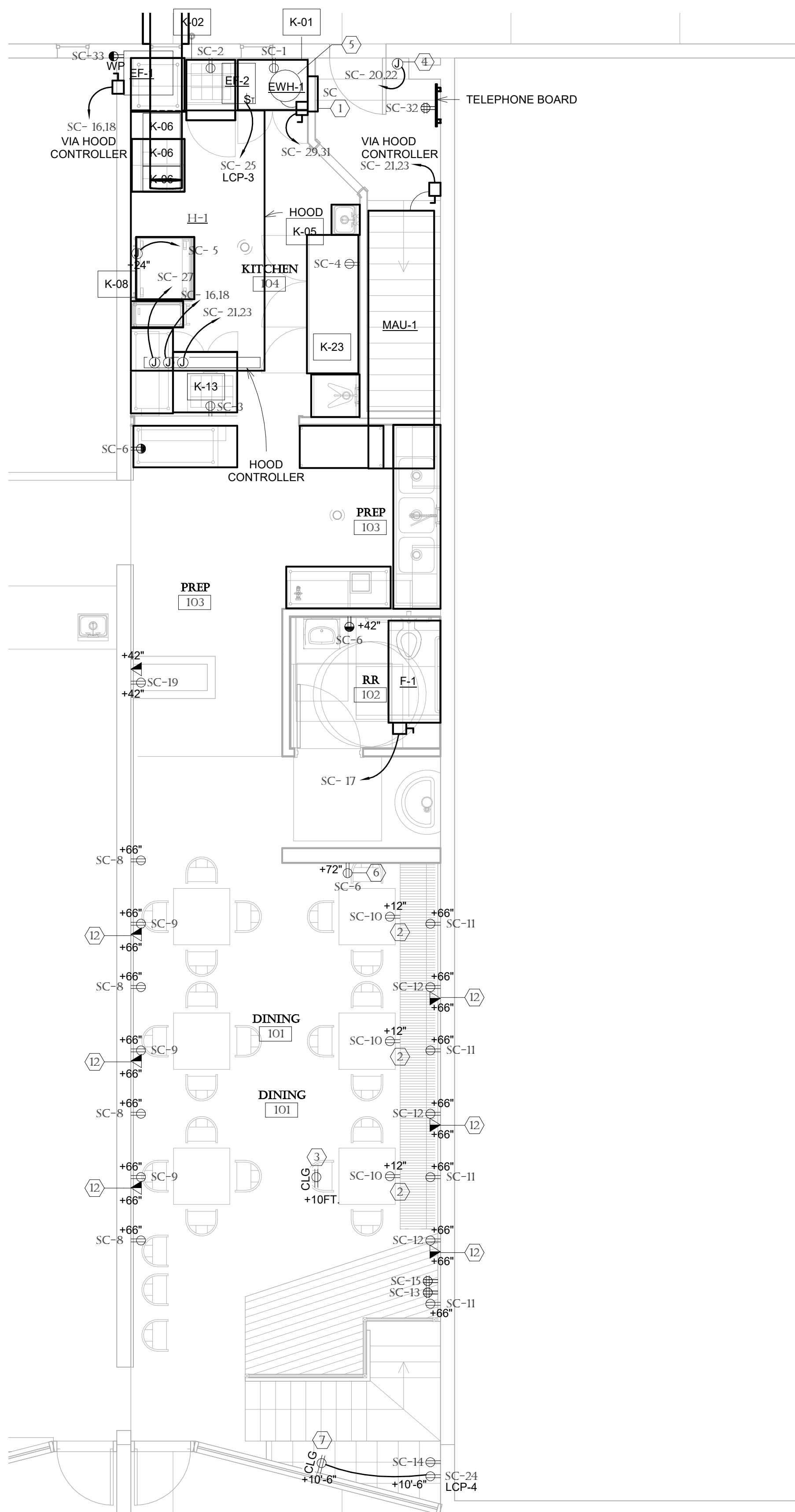
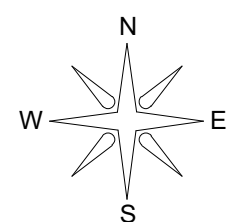
THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXCLUSIVE WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN REPRODUCTION, COPYING, IMITATION, COMMERCIAL USE OF THE DESIGN OR THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.



2 LIGHTING PLAN - LEVEL 1

E201

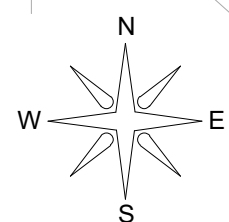
SCALE: 1/4" = 1'-0"



1 POWER PLAN - LEVEL 1

E201

SCALE: 1/4" = 1'-0"



KEYED NOTES:

1. INSTALL NEW "SIDECAR" POWER PANEL 'SC' IN LOCATION SHOWN.
2. DUPLEX RECEPTACLE TO BE RECESSED MOUNTED IN THE BASE OF THE CUSTOM BOOTH SEATING CASEWORK.
3. CEILING MOUNTED DUPLEX RECEPTACLE FOR STAGE LIGHTING. RECEPTACLE TO BE MOUNTED TO THE CEILING ABOVE THE TOP OF THE BEAM.
4. REPLACE EXISTING PANEL WITH A JUNCTION BOX FOR THE ROOFTOP REMOTE CONDENSING UNIT. EXTEND #10AWG, BRANCH CIRCUIT CONDUCTORS TO PANEL 'SC'.
5. ELECTRIC UNIT HEATER IS LOCATED IN BASEMENT LEVEL. DISCONNECT SWITCH TO BE LOCATED IN THE SAME VACUITY.
6. DUPLEX RECEPTACLE FOR FUTURE NEON SIGNS.
7. RECEPTACLE ABOVE WINDOW FOR SHOW WINDOW DISPLAY PER NEC 210.62.
8. CEILING MOUNT LUMINAIRE. BOTTOM OF CYLINDER LUMINAIRE TO BE A MINIMUM OF 2" ABOVE THE BOTTOM OF THE ANGLED EXPOSED BEAMS.
9. CONTINUOUS LINEAR LED TO BE MOUNTED ON ANGLE IRON AND TILTED TO GRAZE AND HIGHLIGHT THE BOTTOM ON THE EXPOSED BEAMS.
10. INSTALL LED TAPE INSIDE CHANNEL AND MOUNT CHANNEL TO THE UNDERSIDE OF THE SIDEWALL SHELF.
11. 4-GANG SWITCHBANK WITH (3) DIMMER SWITCHES AND ONE SINGLE-POLE SWITCH.
12. PROVIDE 3/4" CONDUIT FOR TV SIGNAL CABLING FROM LOCATION AT TV TO TELECOM BOARD FOR FUTURE BROADCAST SYSTEM.

GENERAL NOTES:

- A. THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO ROUGH-IN OF POWER.
- B. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
- C. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGHINS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
- D. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
- E. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- F. TELE/DATA SYMBOL -PROVIDE BACK BOX WITH A 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE WITH PULL-STRING.
- G. ALL PATCH CABLES, TELEPHONE SWITCH, DATA SERVER AND ROUTING HUBS SHALL BE FURNISHED AND INSTALLED BY TENANT. ALL CROSS CONNECTS SHALL BE FURNISHED AND INSTALLED BY TENANT.
- H. COORDINATE ALL LIGHTING LOCATIONS WITH OWNER DURING ROUGHIN. FINAL LOCATIONS TO BE APPROVED BY OWNER.

### FIRE ALARM GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL FOR FIRE ALARM DESIGN, WHICH SHALL BE IN ACCORDANCE WITH NFPA-72, NFPA-101, AND THE IBC. FIRE MARSHAL TO APPROVE FIRE ALARM DESIGN PRIOR TO FINAL SUBMISSION.
- B. ANY FIRE ALARM NOTIFICATION APPLIANCE, OR DETECTION DEVICE, OR EQUIPMENT SHOWN IS FOR COORDINATION AND BIDDING PURPOSES ONLY AND IS NOT CONSIDERED A FIRE ALARM DESIGN.



# L'AVERNALLE EXPANSION

207 BROADWAY

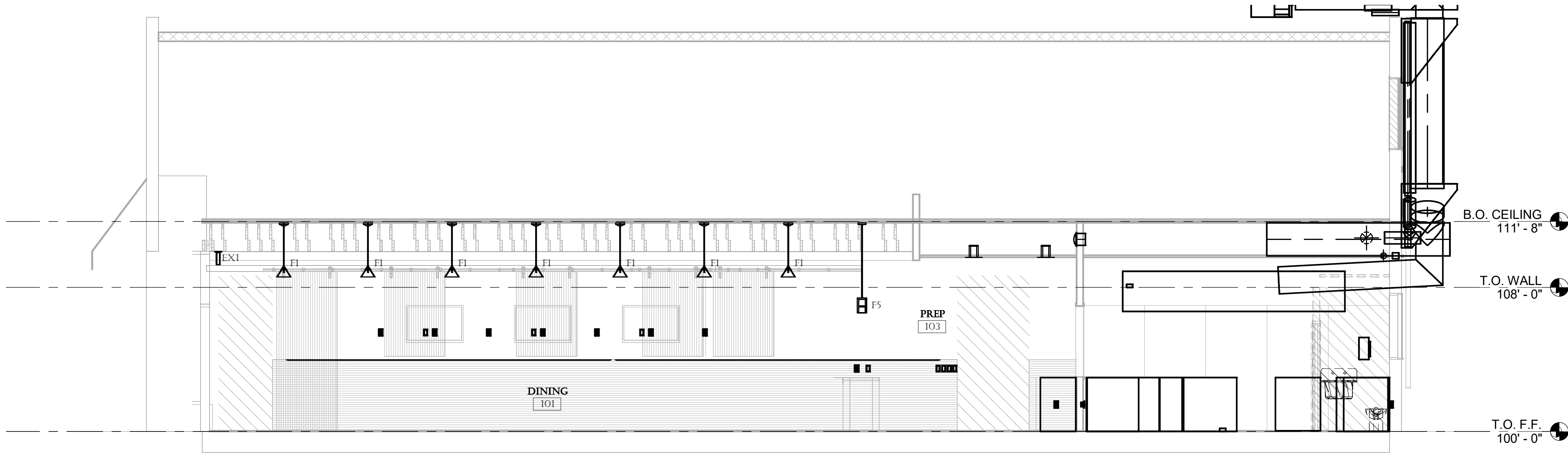
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| PLOT DATE   |      |
| PROJECT     | 1722 |
| DRAWN BY    | TLG  |
| CHECKED BY  | TLG  |
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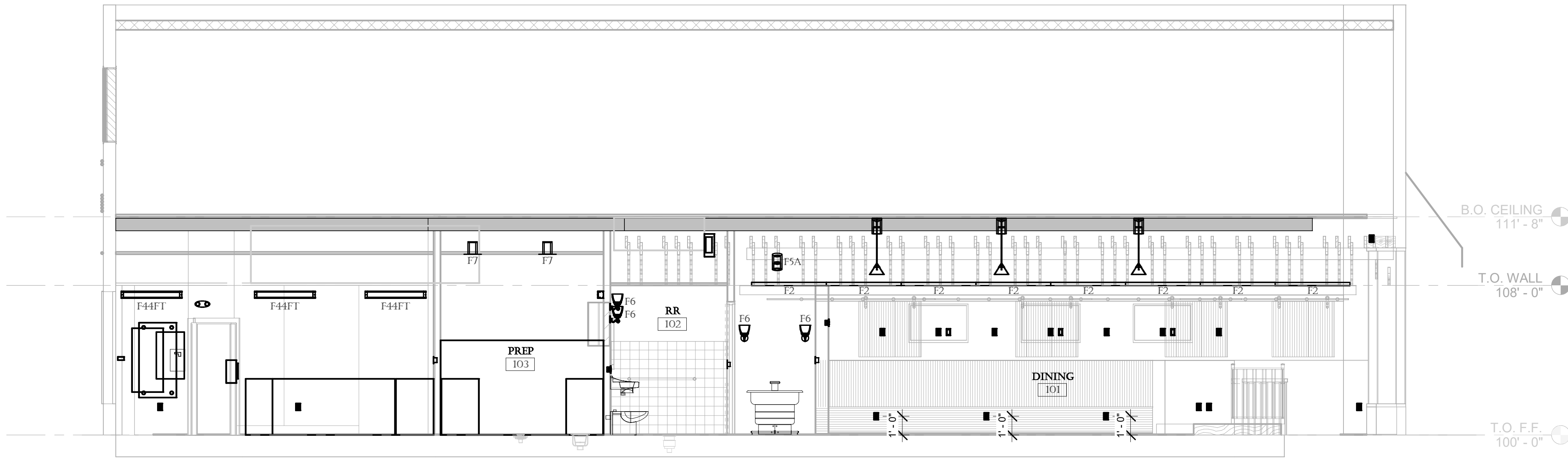
MAIN LEVEL  
ELECTRICAL  
PLANS  
**E201**



THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN, REPRODUCTION, DUPLICATION, COPYING, IMITATION, COMMERCIAL Y EXPLOITED, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.



1 WEST ELEVATION

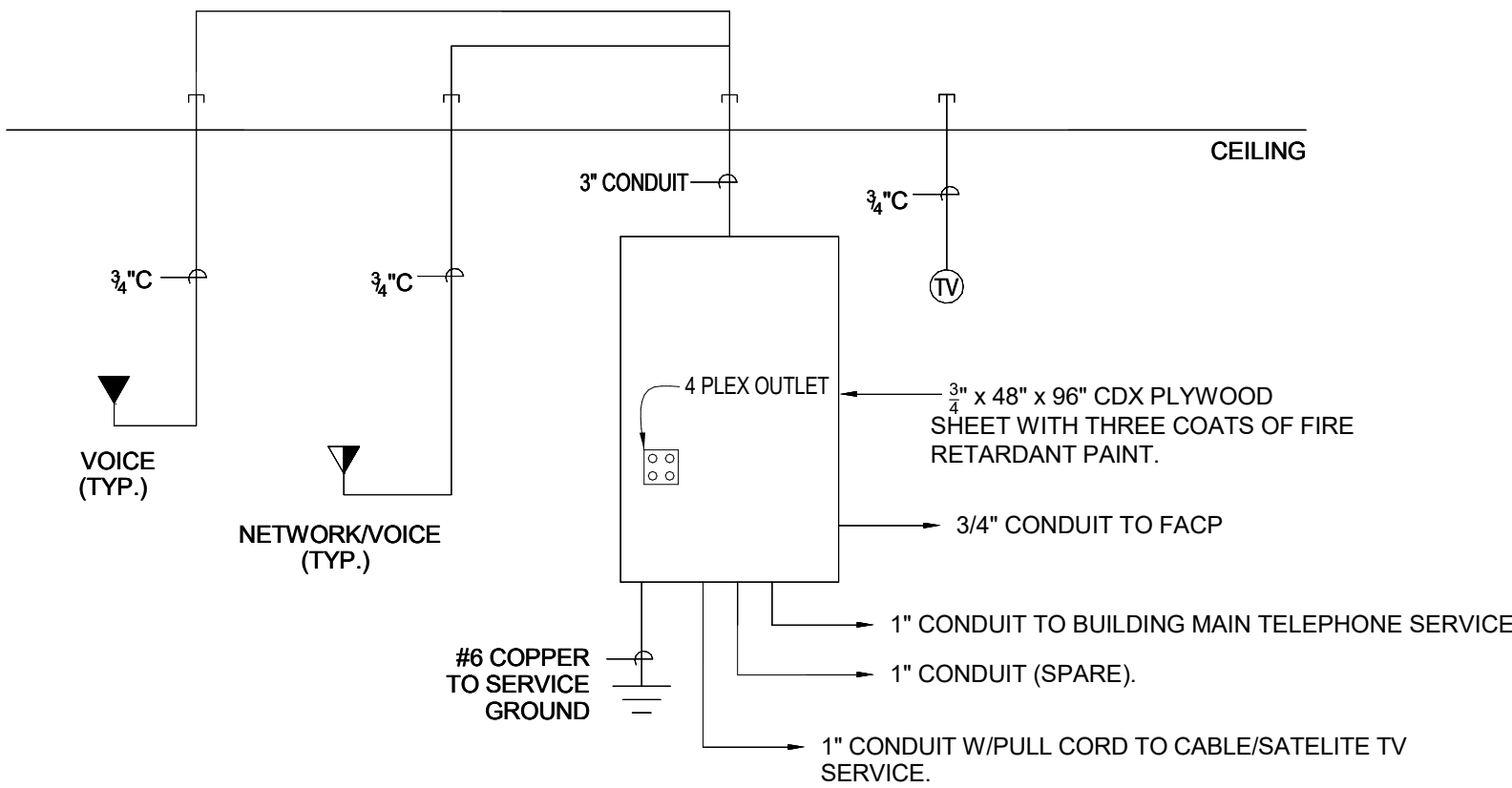


2 EAST ELEVATION

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| PLOT DATE   |      |
| PROJECT     | 1722 |
| DRAWN BY    | TLG  |
| CHECKED BY  | TLG  |
| SHEET TITLE |      |



THE DESIGN AND IDEAS SHOWN AND HEREIN DESCRIBED, THE TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION, AND MODELS THEREOF HAVE BEEN PREPARED AS AN INSTRUMENT OF SERVICE FOR THIS SOLE PROJECT AND SHALL REMAIN THE SOLE PROPERTY OF RANGE ARCHITECTURE AND DESIGN AND THEIR CONSULTANTS. WITHOUT THE SOLE AND EXPRESSED WRITTEN PERMISSION OF RANGE ARCHITECTURE AND DESIGN REPRODUCTION, DUPLICATION, COPYING, IMITATION, COMMERCIAL USE, OR USE FOR OTHER PURPOSE OTHER THAN FOR THIS SPECIFIC PROJECT IS PROHIBITED. PROHIBIT USE OF THE DESIGN OR THESE DRAWINGS IS SUBJECT TO THE FULL EXTENT OF LEGAL ACTION.



### 3 TELECOM/DATA RISER

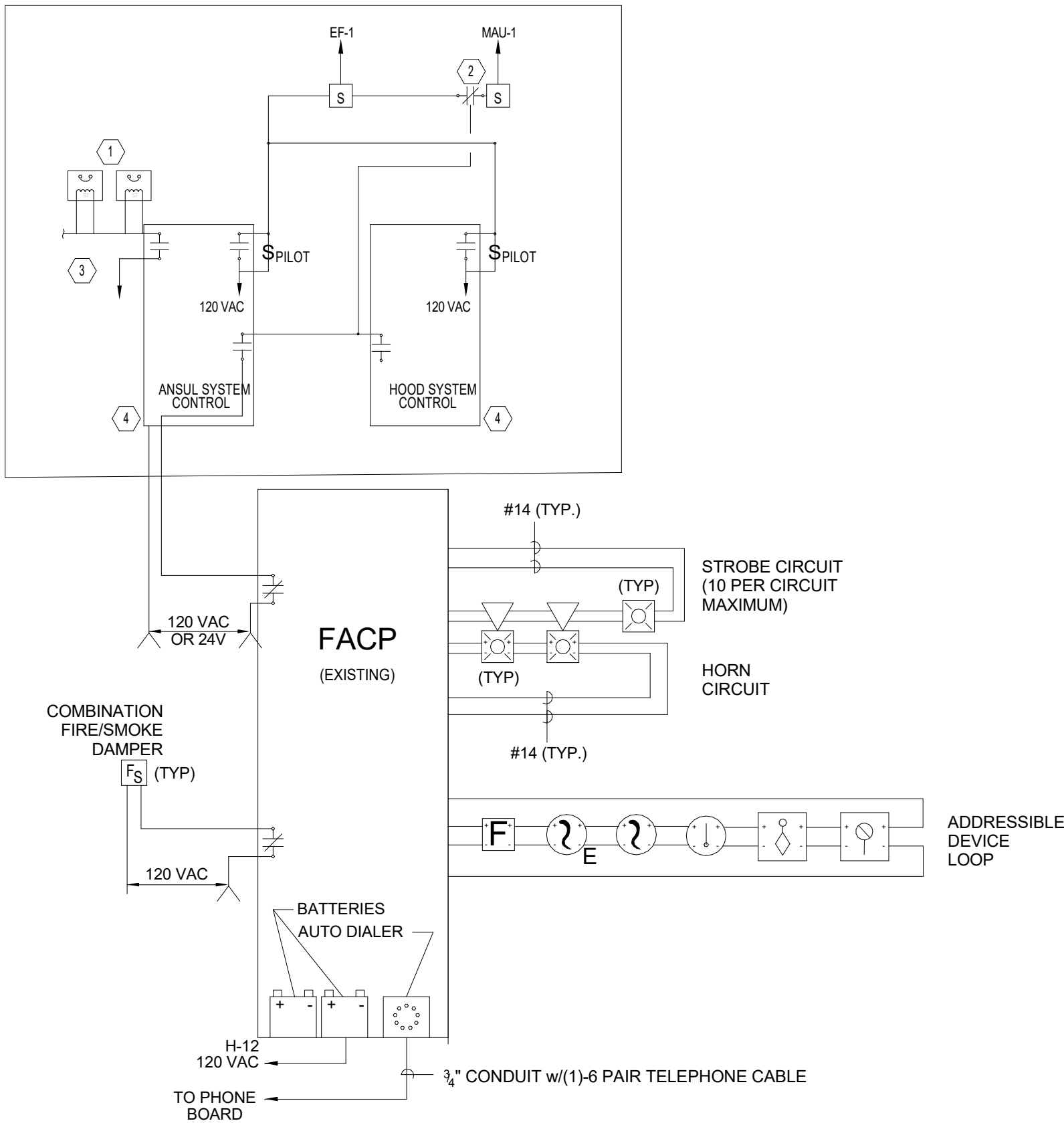
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#### HOOD CONTROL NOTES (#):

- SHUNT TRIP BREAKERS TO BE TRIPPED WHEN ANSUL SYSTEM ALARM IS ACTIVATED. ALL EQUIPMENT UNDER HOOD SHALL BE TRIPPED OFF WHEN ALARM IS ACTIVATED.
- NORMALLY CLOSED CONTACT TO OPEN WHEN FIRE ALARM IS ACTIVATED.
- TO GAS SOLENOID VALVE TO BE SHUT OFF UPON ALARM ACTIVATION.
- HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL. COORDINATE WITH HOOD SUPPLIER FOR CONNECTION POINT IN CONTROL PANEL. FIRE ALARM TO TIE INTO SPARE MICRO SWITCH IN PANEL COORDINATE WITH HOOD SUPPLIER.
- COORDINATE ALL WIRING WITH WIRING DIAGRAMS SHOWN IN HOOD DETAILS. COORDINATE ALL CONTACTS, STARTERS, SWITCHES, ETC. WITH HOOD SUPPLIER.

#### FIRE ALARM GENERAL NOTES:

- COORDINATE FIRE ALARM DEVICES WITH LIGHTING FIXTURES, SPEAKERS, GRILLS, ETC.
- DO NOT INSTALL SMOKE DETECTORS WITHIN 3'-0" OF ANY MECHANICAL GRILL.
- FIRE ALARM CONTROL PANEL AND ANNUNCIATOR ENCLOSURES SHALL CONTAIN A FLANGE AROUND PERIMETER TO FACILITATE AND IMPROVE THE AESTHETIC TRANSITION FROM ENCLOSURE TO SHEETROCK.
- VERIFY ANY POTENTIAL ADDITIONAL REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.
- DUCT SMOKE DETECTORS SHOWN FOR REFERENCE. COORDINATE DUCT SMOKE DETECTOR LOCATIONS WITH MECHANICAL PLANS.
- PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
- PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS & SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.
- PLANS ARE BASED UPON 10 TOTAL STROBE LIGHTS (WHATEVER COMBINATION HOR STROBE OR INDIVIDUAL STROBES) PER CIRCUIT. PROVIDE FIRE ALARM HORN ON EXTERIOR OF BUILDING. SELECT STROBES BASED UPON ROOM SIZE AND MANUFACTURER.
- FLOW & TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITORING DEVICES REQUIRED BY ACTUAL REQUIREMENTS.
- HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE LOCKED HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN THE SPRINKLER HEAD.
- ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.
- HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS (IF REQUIRED) BASED ON 70 MILLIAMPS.
- BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 80 HOURS PLUS 25% SPARE CAPACITY.
- VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.
- RUN SPARE LOOPS IN SAME CONDUIT.
- PROVIDE DUCT DETECTOR AT EACH FLOOR PRIOR TO CONNECTION TO A COMMON RETURN & PRIOR TO RECIRCULATING OR REFRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY & SERVING MORE THAN ONE STORY.
- PROVIDE MANUAL PULL STATIONS IN BOILER ROOM.
- INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS & PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.



### 2 FIRE ALARM RISER

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#### CONDUIT & WIRE SCHEDULE

| SYMBOL | SIZE | QTY | CONDUIT | WIRE SIZE & TYPE   | GROUND      | AMPS | REMARKS     |
|--------|------|-----|---------|--------------------|-------------|------|-------------|
|        | 12   | 2   | 3/4"    | #12 THHN CU        | #12 THHN CU | 25   |             |
|        |      | 3   | 3/4"    |                    |             |      |             |
|        |      | 4   | 3/4"    |                    |             |      |             |
|        | 10   | 2   | 3/4"    | #10 THHN CU        | #10 THHN CU | 30   |             |
|        |      | 3   | 3/4"    |                    |             |      |             |
|        |      | 4   | 3/4"    |                    |             |      |             |
|        | 8    | 2   | 3/4"    | #8 THHN CU         | #10 THHN CU | 40   |             |
|        |      | 3   | 3/4"    |                    |             |      |             |
|        |      | 4   | 3/4"    |                    |             |      |             |
|        | 6    | 2   | 3/4"    | #6 THHN CU         | #10 THHN CU | 55   |             |
|        |      | 3   | 3/4"    |                    |             |      |             |
|        |      | 4   | 3/4"    |                    |             |      |             |
|        | 4    | 2   | 3/4"    | #4 THHN CU         | #8 THHN CU  | 70   |             |
|        |      | 3   | 3/4"    |                    |             |      |             |
|        |      | 4   | 1 1/4"  |                    |             |      |             |
|        | 3    | 2   | 1"      | #3 THHN CU         | #8 THHN CU  | 100  |             |
|        |      | 3   | 1 1/4"  |                    |             |      |             |
|        |      | 4   | 1 1/4"  |                    |             |      |             |
|        | 2    | 2   | 1 1/4"  | #2 XHHW AL         | #6 XHHW AL  | 90   | SEE NOTE #3 |
|        |      | 3   | 1 1/4"  |                    |             |      |             |
|        |      | 4   | 1 1/4"  |                    |             |      |             |
|        | 1    | 2   | 1 1/2"  | #1 XHHW AL         | #6 XHHW AL  | 100  | SEE NOTE #3 |
|        |      | 3   | 1 1/2"  |                    |             |      |             |
|        |      | 4   | 1 1/2"  |                    |             |      |             |
|        | 1A   | 2   | 1 1/2"  | #1/0 XHHW AL       | #4 XHHW AL  | 120  | SEE NOTE #3 |
|        |      | 3   | 1 1/2"  |                    |             |      |             |
|        |      | 4   | 1 1/2"  |                    |             |      |             |
|        | 2A   | 2   | 1 1/2"  | #2/0 XHHW AL       | #4 XHHW AL  | 135  | SEE NOTE #3 |
|        |      | 3   | 1 1/2"  |                    |             |      |             |
|        |      | 4   | 2"      |                    |             |      |             |
|        | 3A   | 2   | 1 1/2"  | #3/0 XHHW AL       | #4 XHHW AL  | 155  | SEE NOTE #3 |
|        |      | 3   | 2"      |                    |             |      |             |
|        |      | 4   | 2"      |                    |             |      |             |
|        | 4A   | 2   | 2"      | #4/0 XHHW AL       | #4 XHHW AL  | 180  | SEE NOTE #3 |
|        |      | 3   | 2"      |                    |             |      |             |
|        |      | 4   | 2 1/2"  |                    |             |      |             |
|        | 25   | 2   | 2"      | #250 KCMIL XHHW AL | #2 XHHW AL  | 205  | SEE NOTE #3 |
|        |      | 3   | 2"      |                    |             |      |             |
|        |      | 4   | 2 1/2"  |                    |             |      |             |
|        | 30   | 2   | 2"      | #300 KCMIL XHHW AL | #2 XHHW AL  | 230  | SEE NOTE #3 |
|        |      | 3   | 3"      |                    |             |      |             |
|        |      | 4   | 3"      |                    |             |      |             |
|        | 35   | 2   | 2"      | #350 KCMIL XHHW AL | #2 XHHW AL  | 250  | SEE NOTE #3 |
|        |      | 3   | 3"      |                    |             |      |             |
|        |      | 4   | 3"      |                    |             |      |             |
|        | 40   | 2   | 2 1/2"  | #400 KCMIL XHHW AL | #2 XHHW AL  | 270  | SEE NOTE #3 |
|        |      | 3   | 3"      |                    |             |      |             |
|        |      | 4   | 3"      |                    |             |      |             |
|        | 50   | 2   | 3"      | #500 KCMIL XHHW AL | #1 XHHW AL  | 310  | SEE NOTE #3 |
|        |      | 3   | 4"      |                    |             |      |             |
|        |      | 4   | 4"      |                    |             |      |             |
|        | 60   | 2   | 3"      | #600 KCMIL XHHW AL | #1 XHHW AL  | 340  | SEE NOTE #3 |
|        |      | 3   | 4"      |                    |             |      |             |
|        |      | 4   | 4"      |                    |             |      |             |
|        | 75   | 2   | 3"      | #750 KCMIL XHHW AL | #1 XHHW AL  | 385  | SEE NOTE #3 |
|        |      | 3   | 4"      |                    |             |      |             |
|        |      | 4   | 5"      |                    |             |      |             |

#### EXAMPLE:

[3] [4] = (4)-#3 AWG THHN/THWN CU + (1)-#6 THHN/THWN CU GND, 1-1/4" CONDUIT  
[50] [4] = (4)-#500KCMIL XHHW AL + (1)-#4/0 XHHW AL GND, 4" CONDUIT  
2 SETS  
#4/0 GND

#### NOTES:

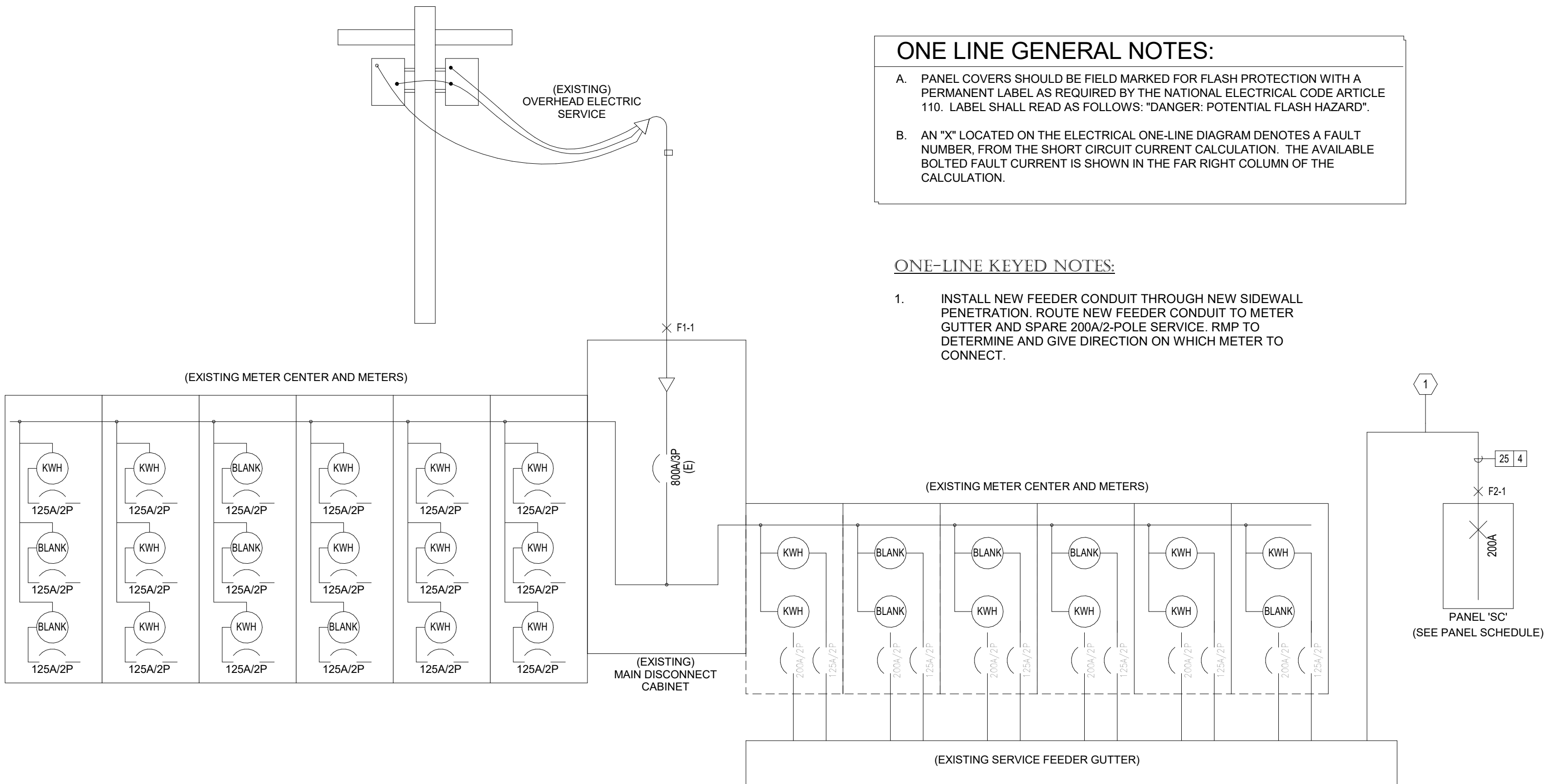
- PARALLEL RUNS REQUIRE A LARGER GROUND WIRE PER CONDUIT - SEE NEC ART. 250
- WHERE THHN CONDUCTORS SHALL BE RUN UNDERGROUND, PROVIDE THHW INSULATION IN LIEU OF THHN
- ON ALL UNDERGROUND CONDUCTORS, ALL ALUMINUM CONDUCTORS SHALL BE ALCON STABILOY ALUMINUM, NO EXCEPTIONS. TERMINATIONS SHALL BE AS PER THE NEC.

#### ONE LINE GENERAL NOTES:

- PANEL COVERS SHOULD BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE ARTICLE 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL FLASH HAZARD".
- AN "X" LOCATED ON THE ELECTRICAL ONE-LINE DIAGRAM DENOTES A FAULT NUMBER, FROM THE SHORT CIRCUIT CURRENT CALCULATION. THE AVAILABLE BOLTED FAULT CURRENT IS SHOWN IN THE FAR RIGHT COLUMN OF THE CALCULATION.

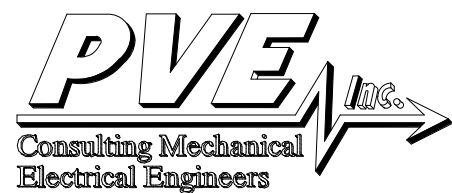
#### ONE-LINE KEYED NOTES:

- INSTALL NEW FEEDER CONDUIT THROUGH NEW SIDEWALL PENETRATION. ROUTE NEW FEEDER CONDUIT TO METER GUTTER AND SPARE 200A/2-POLE SERVICE. RMP TO DETERMINE AND GIVE DIRECTION ON WHICH METER TO CONNECT.



### 1 ONE-LINE DIAGRAM

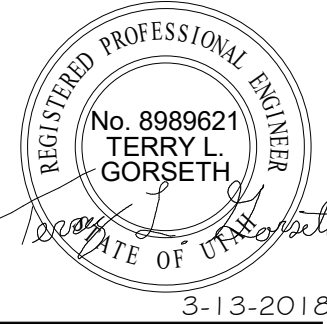
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1040 North 2200 West, Suite 100  
Salt Lake City, Utah 84116  
(801) 359-3158 Fax: (801) 521-4114

TAVERNACLE EXPANSION  
207 BROADWAY  
SLC, UT 84111

RANGE



|             |      |
|-------------|------|
| REVISIONS   |      |
| PERMIT SET  |      |
| CONFORM SET |      |
|             |      |
| PLOT DATE   |      |
| PROJECT     | 1722 |
| DRAWN BY    | TLG  |
| CHECKED BY  | TLG  |
| SHEET TITLE |      |

ONE LINE  
DIAGRAM &  
RISERS  
E401



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COMcheck Software Version 4.0.8.1  
Interior Lighting Compliance Certificate

Project Information

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

Construction Site: 221 E. 300 S.  
Salt Lake City, UT 84111  
Owner/Agent: Terry Gorseth  
PVE, Inc.  
1040 N. 2200 W.  
Suite 100  
Salt Lake City, UT 84116  
801-359-3158  
tgorseth@pve-ut.com  
Designer/Contractor: Terry Gorseth  
PVE, Inc.  
1040 N. 2200 W.  
Suite 100  
Salt Lake City, UT 84116  
801-359-3158  
tgorseth@pve-ut.com

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

| A<br>Area Category      | B<br>Floor Area<br>(ft2) | C<br>Allowed<br>Watts / ft2 | D<br>Allowed Watts<br>(B X C) |
|-------------------------|--------------------------|-----------------------------|-------------------------------|
| 1.SideCar Cafe (Retail) | 971                      | 1.13                        | 1101                          |
| Total Allowed Watts =   |                          |                             | 1101                          |

Proposed Interior Lighting Power

| A<br>Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast | B<br>Lamps/<br>Fixture | C<br># of<br>Fixtures | D<br>Fixture<br>Watt. | E<br>(C X D) |
|-------------------------------------------------------------------|------------------------|-----------------------|-----------------------|--------------|
| 1.SideCar Cafe (Retail)                                           |                        |                       |                       |              |
| LED 1: F1: Caged Pendant: Other:                                  | 1                      | 7                     | 19                    | 133          |
| LED 2: F2: Angled Linear Grazer: Other:                           | 1                      | 8                     | 40                    | 320          |
| LED 3: F3: LED Tape Lt. 3W/ft: Other:                             | 1                      | 2                     | 60                    | 120          |
| LED 4: F4: Wall Mount LED Linear: Other:                          | 1                      | 4                     | 43                    | 172          |
| LED 5: F5: Pendant Cylinder: Other:                               | 1                      | 5                     | 14                    | 70           |
| LED 6: F6: Vanity Wall Sconce: Other:                             | 1                      | 6                     | 16                    | 96           |
| LED 7: F7: 6" Downlight: Other:                                   | 1                      | 5                     | 17                    | 85           |
| Total Proposed Watts =                                            |                        |                       | 996                   |              |

Interior Lighting PASSES: Design 10% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

TERRY L. GORSETH, P.M. 3-13-2018  
Name - Title Signature Date

Project Title: SideCar Restaurant Report date: 03/13/18  
Data filename: X:\Projects\2017\17211.00.01 - Tavernacle B\Electrical Files\Calculations\COMCheck\SideCar Restaurant.cck Page 1 of 5

| LIGHTING CONTROL PANEL                                                                                   |     |      |                             |             |           |                     |   |   |   |   |         |
|----------------------------------------------------------------------------------------------------------|-----|------|-----------------------------|-------------|-----------|---------------------|---|---|---|---|---------|
| NAME: LCP                                                                                                |     |      | POWER SUPPLY CIRCUIT: SC-30 |             |           |                     |   |   |   |   |         |
| MOUNTING: SURFACE                                                                                        |     |      | NUMBER OF RELAYS: 4         |             |           |                     |   |   |   |   |         |
| ENCLOSURE: NEMA 1                                                                                        |     |      |                             |             |           |                     |   |   |   |   |         |
| LOCATION:                                                                                                |     |      |                             |             |           |                     |   |   |   |   |         |
| RELAY                                                                                                    |     |      | SUPPLY CIRCUIT              | AREA SERVED | LV SWITCH | AUTOMATION SCHEDULE |   |   |   |   | REMARKS |
| NUMBER                                                                                                   | AMP | POLE |                             |             |           | A                   | B | C | D | E |         |
| 1                                                                                                        | 20  | 1    |                             |             |           |                     | X |   |   |   |         |
| 2                                                                                                        | 20  | 1    |                             |             |           |                     | X |   |   |   |         |
| 3                                                                                                        | 20  | 1    |                             |             |           |                     |   |   |   |   |         |
| 4                                                                                                        | 20  | 1    |                             | SPARE       |           |                     |   |   |   |   |         |
| AUTOMATION SCHEDULES:                                                                                    |     |      |                             |             |           |                     |   |   |   |   |         |
| (A) = AUTO ON / AUTO OFF                                                                                 |     |      |                             |             |           |                     |   |   |   |   |         |
| (B) = MANUAL ON / AUTO OFF                                                                               |     |      |                             |             |           |                     |   |   |   |   |         |
| (C) = DUSK- DAWN                                                                                         |     |      |                             |             |           |                     |   |   |   |   |         |
| (D) = DUSK - AUTO OFF                                                                                    |     |      |                             |             |           |                     |   |   |   |   |         |
| (E) = DAYLIGHT SENSOR                                                                                    |     |      |                             |             |           |                     |   |   |   |   |         |
| NOTES:                                                                                                   |     |      |                             |             |           |                     |   |   |   |   |         |
| 1. SEE PLAN(S) FOR LOCATION OF LOW VOLTAGE SWITCH(ES).                                                   |     |      |                             |             |           |                     |   |   |   |   |         |
| 2. RELAY TO CONTROL COIL OF 2-POLE CONTACTOR, FACTORY MOUNTED ON CABINET INTERIOR.                       |     |      |                             |             |           |                     |   |   |   |   |         |
| 3. ELECTRICAL CONTRACTOR TO PROVIDE SPACE IN THIS PANEL FOR FUTURE EXPANSION.                            |     |      |                             |             |           |                     |   |   |   |   |         |
| 4. INSTALL VOLTAGE BARRIERS AS REQUIRED BY LOCAL AHJ OR TO SEPARATE NORMAL AND EMERGENCY POWER CIRCUITS. |     |      |                             |             |           |                     |   |   |   |   |         |

| LUMINAIRE SCHEDULE                                                                                                                                                                                                                                                  |                        |                                            |                                                                                                    |                        |      |           |       |            |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------|------|-----------|-------|------------|--------------------------|
| LUMINAIRE NUMBER                                                                                                                                                                                                                                                    | LUMINAIRE MANUFACTURER | LUMINAIRE CATALOG #                        | DESCRIPTION                                                                                        | LAMPS                  |      | LUMINAIRE |       |            | REMARKS                  |
|                                                                                                                                                                                                                                                                     |                        |                                            |                                                                                                    | TYPE                   | QTY. | VOLTS     | WATTS | MOUNTING   |                          |
| F1                                                                                                                                                                                                                                                                  | TMS LIGHTING           | NAU-I-14-1SLED-CRD-30K-120-SCBA-G10-DIML   | DECORATIVE PENDANT FIXTURE 2700K                                                                   | LED E26 SCREW-IN 2700K | 1    | 120       | 19    | PENDENT    |                          |
| F2                                                                                                                                                                                                                                                                  | SSL                    | CVL-I-27K-120-ADB2                         | 1FT LED STRIP 27K                                                                                  | LED 27K                | 1    | 120       | 10    | SURFACE    |                          |
| F3                                                                                                                                                                                                                                                                  | ACOLYTE                | RBHI-24-3.0-27                             | LED TAPE LIGHT 27K                                                                                 | LED 3W/FT 27K          | 1    | 24        | 3W/FT | TAPE LIGHT |                          |
| F3A                                                                                                                                                                                                                                                                 | ACOLYTE                | CH-AC4-C-HI-24-3.0-27-1-010                | LED TAPE LIGHT CHANNEL                                                                             | LED 3W/FT 27K          | 1    | 24        | 3W/FT | SURFACE    | ENCLOSURE FOR TAPE LIGHT |
| F42FT                                                                                                                                                                                                                                                               | VISIONEERING           | LCAD-24-LED835K020LUNV                     | WALL MOUNT 2FT 35K LED FIXTURE                                                                     | LED 35K 43W            | 1    | UNV       | 23    | WALL MOUNT |                          |
| F44FT                                                                                                                                                                                                                                                               | VISIONEERING           | LCAD-48-LED835K037LUNV                     | WALL MOUNT 4FT 35K LED FIXTURE                                                                     | LED 35K 43W            | 1    | UNV       | 43    | WALL MOUNT |                          |
| F48FT                                                                                                                                                                                                                                                               | VISIONEERING           | LCAD-96-LED835K074LUNV                     | WALL MOUNT 8FT 35K LED FIXTURE                                                                     | LED 35K 43W            | 1    | UNV       | 86    | WALL MOUNT |                          |
| F5                                                                                                                                                                                                                                                                  | CONTECT LIGHTING       | CYL6227KM/DPMCLR-SCBA                      | PENDENT MOUNTED LED FIXTURE 27K                                                                    | LED 27K 14W            | 1    | 120       | 14    | PENDENT    |                          |
| F6                                                                                                                                                                                                                                                                  | BARN LIGHT             | BLE-G-CGG2/GA3-SCBA-WGG-FST-LED16.8-2700 K | BATHROOM VANITY 27K 16W LED FIXTURE                                                                | LED 27K 16W            | 1    | 120       | 16    | WALL MOUNT |                          |
| F7                                                                                                                                                                                                                                                                  | CONTECT LIGHTING       | RL20SA227KC12D                             | RECESSED DOWNLIGHT 17W 27K LED                                                                     | LEDD 27K 17W           | 1    | 120       | 17    | RECESSED   |                          |
| EX1                                                                                                                                                                                                                                                                 | ISOLITE                | LPDCMG5-WW-UN                              | DIE-CAST ALUMINUM ALLOY SINGLE-FACE WHITE EXIT SIGN WITH EMERGENCY BATTERY DIE-CAST ALUMINUM ALLOY | GREEN LED              | N/A  | 120       | 2.5   | UNIVERSAL  |                          |
| EX2                                                                                                                                                                                                                                                                 | ISOLITE                | LPDCMGD-WW-UN                              | DIE-CAST ALUMINUM ALLOY DOUBLE-FACE WHITE EXIT SIGN WITH EMERGENCY BATTERY PACK                    | GREEN LED              | N/A  | 120       | 2.5   | #N/A       |                          |
| NOTE: ELECTRICAL CONTRACTOR SHALL PROVIDE A 'QUICK DISCONNECT HARNESS' FOR EACH FLUORESCENT LIGHTING FIXTURE TO SERVE AS A MEANS OF DISCONNECT TO ALLOW THE FIXTURE BALLAST TO BE SERVICED IN PLACE, AS PER THE NATIONAL ELECTRICAL CODE 2014, ARTICLE 410.130 (G). |                        |                                            |                                                                                                    |                        |      |           |       |            |                          |



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## KITCHEN EQUIPMENT SCHEDULE

| ITEM NO | QTY | EQUIPMENT CATEGORY                 | MANUFACTURER         | MODEL NUMBER           | EQUIPMENT REMARKS | AMPS | KW | HP    | VOLTS   | PHASE | CYCLE | DIRECT | PLUG | NEMA  | ELECTRICAL AFF (IN) | ELEC REMARKS | COLD WATER SIZE (IN) | COLD WATER AFF (IN) | HOT WATER SIZE (IN) | HOT WATER AFF (IN) | DIRECT DRAIN SIZE (IN) | DIRECT DRAIN AFF (IN) | INDIR DRAIN SIZE (IN) | INDIR DRAIN AFF (IN) | GAS SIZE (IN) | MBTUH | GAS AFF (IN) | GAS ROUGH-IN | PLUMBING REMARKS | ITEM NO |
|---------|-----|------------------------------------|----------------------|------------------------|-------------------|------|----|-------|---------|-------|-------|--------|------|-------|---------------------|--------------|----------------------|---------------------|---------------------|--------------------|------------------------|-----------------------|-----------------------|----------------------|---------------|-------|--------------|--------------|------------------|---------|
| K-01    | 1   | FREEZER, REACH-IN                  | TRUE FOOD SERVICE    | T-35F                  | -                 | 9.0  | -  | -     | 115     | 1     | 60    | X      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-01    |
| K-02    | 1   | REFRIGERATOR, SANDWICH/SALAD PREP  | TRUE FOOD SERVICE    | TSSU-27-12M-B          | -                 | 4.9  | -  | 1/5   | 115     | 1     | 60    | X      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-02    |
| K-03    | 1   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.      | EWS8-1624              | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-03    |
| K-04    | 1   | TABLE, WORK, ECONOMY               | JOHN BOOS & CO.      | FBLG3030               | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-04    |
| K-05    | 1   | TYPE 1 HOOD                        | CAPTIVE AIRE         | HOOD VENT              | -                 | 15.0 | -  | -     | 120     | 1     | 60    | X      | -    | -     | CEIL                | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-05    |
| K-05    | 1   | EXHAUST FAN                        | CAPTIVE AIRE         | EXHAUST FAN            | -                 | -    | -  | 7-1/2 | 208     | 3     | 60    | X      | -    | -     | ROOF                | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-05    |
| K-05    | 1   | MAKE-UP AIR UNIT (MAU)             | CAPTIVE AIRE         | MAKE-UP AIR UNIT (MAU) | -                 | -    | -  | 7-1/2 | 208     | 3     | 60    | X      | -    | -     | ROOF                | -            | 1/2                  | ROOF                | -                   | -                  | -                      | -                     | -                     | -                    | 1             | 703   | ROOF         | -            | -                | K-05    |
| K-05    | 1   | CURBING                            | CAPTIVE AIRE         | CURBING                | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-05    |
| K-05    | 1   | ELECTRICAL                         | CAPTIVE AIRE         | ELECTRICAL             | -                 | 21.0 | -  | 7-1/2 | 200-240 | 3     | 60    | X      | -    | -     | CEIL                | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-05    |
| K-05    | 1   | FIRE SUPPRESSION                   | CAPTIVE AIRE         | FIRE SUPPRESSION       | -                 | 20.0 | -  | -     | 120     | 1     | 60    | X      | -    | -     | 108                 | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-05    |
| K-06    | 3   | FRYER, DEEP FAT, GAS               | PITCO                | 35C+S                  | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 90    | 11           | -            | -                | K-06    |
| K-07    | 1   | SPARE                              | SPARE                | SPARE                  | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-07    |
| K-08    | 1   | RANGE, RESTAURANT, GAS             | SOUTHBEND            | 4601AA-3GL             | -                 | -    | -  | 115.0 | 1       | 60    | -     | X      | -    | -     | 20                  | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 196   | -            | -            | -                | K-08    |
| -       | -   | -                                  | -                    | -                      | -                 | -    | -  | 115.0 | 1       | 60    | -     | X      | -    | -     | 20                  | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 40    | -            | -            | -                | -       |
| K-09    | 1   | BROILER, UNDER-FIRED, GAS, COUNTER | SOUTHBEND            | HDC-12                 | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 40    | -            | -            | -                | K-09    |
| K-10    | 1   | STAND, EQUIPMENT                   | JOHN BOOS & CO.      | EES8-3015              | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-10    |
| K-11    | 1   | TABLE, WORK, ECONOMY               | JOHN BOOS & CO.      | FBLG4824               | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-11    |
| K-12    | 1   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.      | EWS8-1636              | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-12    |
| K-13    | 1   | REFRIGERATOR, SANDWICH/SALAD PREP  | TRUE FOOD SERVICE    | TSSU-36-12M-B          | -                 | 8.3  | -  | 1/3   | 115     | 1     | 60    | X      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-13    |
| K-14    | 1   | -                                  | PASS-THROUGH COUNTER | -                      | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-14    |
| K-15    | 1   | -                                  | HEAT LAMPS           | -                      | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-15    |
| K-16    | 2   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.      | EWS8-1636              | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-16    |
| K-17    | 1   | PRE-RINSE FAUCET, WALL MOUNT       | T & S BRASS          | B-0133-01-CR           | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | 1/2                  | 20                  | 1/2                 | 20                 | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-17    |
| K-18    | 1   | SINK, NSF, 3 COMP, 16 GAUGE        | ADVANCE TABCO        | 93-3-54-18RL           | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | 1/2                  | 38                  | 1/2                 | 38                 | 1 1/2                  | 20                    | -                     | -                    | -             | -     | -            | -            | -                | K-18    |
| -       | -   | -                                  | -                    | -                      | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | 1 1/2                  | 20                    | -                     | -                    | -             | -     | -            | -            | -                | -       |
| -       | -   | -                                  | -                    | -                      | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | 1 1/2                  | 20                    | -                     | -                    | -             | -     | -            | -            | -                | -       |
| K-19    | 1   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.      | EWS8-1648              | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-19    |
| K-20    | 1   | SINK, NSF, 1 COMP, 18 GAUGE        | ADVANCE TABCO        | 9-1-24-18R             | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | 1-1/2                 | FS                   | -             | -     | -            | -            | -                | K-20    |
| K-21    | 4   | SHELVING, POST                     | CENTAUR              | 86PK3                  | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-21    |
| K-21    | 4   | SHELVING, WIRE                     | CENTAUR              | 2472BR                 | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-21    |
| K-22    | 1   | HAND SINK, WALL MOUNT              | ADVANCE TABCO        | 7-PS-60                | -                 | -    | -  | -     | -       | -     | -     | -      | -    | -     | -                   | -            | 1/2                  | 20                  | 1/2                 | 20                 | 1-1/2                  | 18                    | -                     | -                    | -             | -     | -            | -            | -                | K-22    |
| K-23    | 1   | REFRIGERATOR, REACH-IN             | TRUE FOOD SERVICE    | T-72                   | -                 | 9.6  | -  | 1/2   | 115     | 1     | 60    | -      | X    | 5-15P | 12                  | -            | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                | K-23    |

## EQUIPMENT SCHEDULE

| UNIT #           | EQUIPMENT DESCRIPTION                                                                                                                                                  | ELECTRICAL |            |       |       | REFERENCE NOTES      |            |                                                                                                |              | OCPD           |                  | REMARKS |                        |  |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|-------|-------|----------------------|------------|------------------------------------------------------------------------------------------------|--------------|----------------|------------------|---------|------------------------|--|
|                  |                                                                                                                                                                        | LOAD       | LOAD UNITS | VOLTS | PHASE | FULL LOAD AMPS (FLA) | DISCONNECT | DISCONNECT RATING (AMPS)                                                                       | STARTER SIZE | ENCLOSURE TYPE | FUSE SIZE (AMPS) |         | BREAKER SIZE (AMPS)    |  |
| EF-1             | EXHAUST FAN                                                                                                                                                            | 3.4        | KW         | 240   | 1     | 14.1                 | 1A         | 30                                                                                             | -            | 18             | -                | 20      |                        |  |
| EF-2             | EXHAUST FAN                                                                                                                                                            | 240        | W          | 120   | 1     | 2.0                  | 5A         | 20                                                                                             | -            | 17             | -                | 20      |                        |  |
| EW-1             | ELECTRIC WATER HEATER                                                                                                                                                  | 4.5        | KW         | 240   | 1     | 18.8                 | 1A         | 30                                                                                             | -            | 17             | -                | 30      |                        |  |
| MAU-1            | MAKE UP AIR UNIT                                                                                                                                                       | 2.2        | KW         | 240   | 1     | 9.2                  | 1A         | 30                                                                                             | -            | 18             | -                | 20      | POWER MOTORIZED DAMPER |  |
| REFERENCE NOTES: |                                                                                                                                                                        |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 1.               | NON-FUSED DISCONNECT SWITCH                                                                                                                                            |            |            |       |       |                      | A.         | FURNISHED, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR                         |              |                |                  |         |                        |  |
| 2.               | FUSED DISCONNECT SWITCH                                                                                                                                                |            |            |       |       |                      | B.         | FURNISHED AND INSTALLED UNDER ANOTHER DIVISION, FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR. |              |                |                  |         |                        |  |
| 3.               | BREAKER IN ENCLOSURE                                                                                                                                                   |            |            |       |       |                      | C.         | FURNISHED UNDER ANOTHER DIVISION, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR. |              |                |                  |         |                        |  |
| 4.               | FUSED DISCONNECT SWITCH WITH SHUNT TRIP                                                                                                                                |            |            |       |       |                      | D.         | FURNISHED, INSTALLED AND FINAL CONNECTION UNDER ANOTHER DIVISION.                              |              |                |                  |         |                        |  |
| 5.               | MANUAL STARTER WITH THERMAL OVERLOAD                                                                                                                                   |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 6.               | MANUAL STARTER                                                                                                                                                         |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 7.               | MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION                                                                                                                      |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 8.               | MAGNETIC STARTER/FUSED DISCONNECT COMBINATION                                                                                                                          |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 9.               | MAGNETIC STARTER/MOTOR CIRCUIT PROTECTOR COMBINATION                                                                                                                   |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 10.              | VARIABLE SPEED DRIVE                                                                                                                                                   |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 11.              | REDUCED VOLTAGE STARTER                                                                                                                                                |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 12.              | DIRECT CONNECTION                                                                                                                                                      |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 13.              | RECEPTACLE/SPECIAL PURPOSE OUTLET ETC.                                                                                                                                 |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 14.              | TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE                                                                                                                          |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 15.              | MAXIMUM CIRCUIT AMPS (MCA)                                                                                                                                             |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 16.              | FULL LOAD CURRENT                                                                                                                                                      |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 17.              | PROVIDE WITH NEMA 1 ENCLOSURE                                                                                                                                          |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 18.              | PROVIDE WITH NEMA 3R ENCLOSURE                                                                                                                                         |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| GENERAL NOTES:   |                                                                                                                                                                        |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 1.               | VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL DRAWINGS/SUBMITTALS PRIOR TO STARTING ROUGH IN.            |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 2.               | ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED. |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |
| 3.               | ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW.                                       |            |            |       |       |                      |            |                                                                                                |              |                |                  |         |                        |  |



**TAVERNACLE EXPANSION**  
207 BROADWAY  
SLC, UT 84111

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| REVISIONS   |      |
| PERMIT SET  |      |
| CONFORM SET |      |
|             |      |
|             |      |
|             |      |
| PLOT DATE   |      |
| PROJECT     | 1722 |
| DRAWN BY    | TLG  |
| CHECKED BY  | TLG  |
| SHEET TITLE |      |

## ELECTRICAL SCHEDULES

# E502

# RANGE



**RANGE ARCHITECTURE | DESIGN**  
3745 EAST HERMES DRIVE SLC, UT 84124  
WWW.RANGEARCHITECTURE.COM 801.694.9150





PROJECT NUMBER: 170801  
DATE: 2017-08-10 v. 20180213  
DRAWN BY: T. Roe  
CHECKED BY: -

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Salt Lake City, UT 84101  
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Tavernacle Expansion  
201 300 S  
Salt Lake City, UT 84111

DRAWING TITLE

KITCHEN  
EQUIPMENT  
PLAN

DRAWING NUMBER

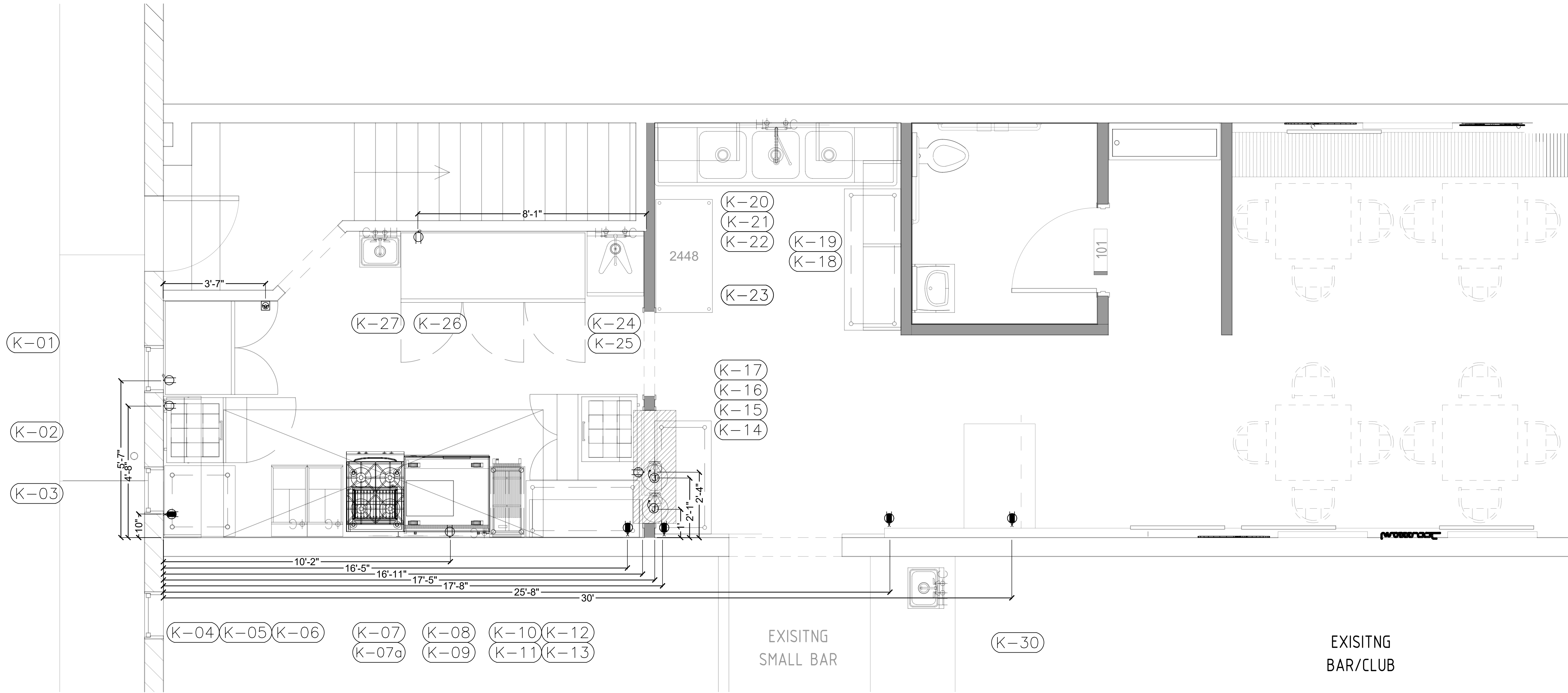
**K1**

01 of 05









| EQUIPMENT SCHEDULE |     |                                    |                              |                        |                   |      |     |       |         |       |
|--------------------|-----|------------------------------------|------------------------------|------------------------|-------------------|------|-----|-------|---------|-------|
| ITEM NO.           | QTY | EQUIPMENT CATEGORY                 | MANUFACTURER                 | MODEL NUMBER           | EQUIPMENT REMARKS | AMPS | KW  | HP    | VOLTS   | PHASE |
| K-01               | 1   | FREEZER, REACH-IN                  | TRUE FOOD SERVICE            | T-35F                  | -                 | 9.0  | -   | -     | 115     | 1     |
| K-02               | 1   | REFRIGERATOR, SANDWICH/SALAD PREP  | TRUE FOOD SERVICE            | TSSU-27-12M-B          | -                 | 4.9  | -   | 1/5   | 115     | 1     |
| K-03               | 1   | SHELF, WALL MOUNT                  | ADVANCE TABCO                | WS-15-60               | -                 | -    | -   | -     | -       | -     |
| K-04               | 1   | TABLE, WORK, ECONOMY               | JOHN BOOS & CO.              | FBL03030               | -                 | -    | -   | -     | -       | -     |
| K-05               | 1   | TYPE 1 HOOD                        | CAPTIVE AIRE                 | HOOD VENT              | -                 | 15.0 | -   | -     | 120     | 1     |
| K-06               | 1   | EXHAUST FAN                        | CAPTIVE AIRE                 | EXHAUST FAN            | -                 | -    | -   | 7-1/2 | 208     | 3     |
| K-07               | 1   | MAKE-UP AIR UNIT (MAU)             | CAPTIVE AIRE                 | MAKE-UP AIR UNIT (MAU) | -                 | -    | -   | 7-1/2 | 208     | 3     |
| K-08               | 1   | CURBING                            | CAPTIVE AIRE                 | -                      | -                 | -    | -   | -     | -       | -     |
| K-09               | 1   | ELECTRICAL                         | CAPTIVE AIRE                 | ELECTRICAL             | -                 | 21.0 | -   | 7-1/2 | 200-240 | 3     |
| K-10               | 1   | FIRE SUPPRESSION                   | CAPTIVE AIRE                 | FIRE SUPPRESSION       | -                 | 20.0 | -   | -     | 120     | 1     |
| K-11               | 2   | FRYER, DEEP FAT, GAS               | PITCO                        | 35C4-S                 | -                 | -    | -   | -     | -       | -     |
| K-12               | 1   | RANGE, RESTAURANT, GAS             | SOUTHBEND                    | S24E                   | -                 | -    | -   | -     | -       | -     |
| K-13               | 1   | CHEESEMELTER, GAS                  | SOUTHBEND                    | P24-CM                 | -                 | -    | -   | -     | -       | -     |
| K-14               | 1   | REFRIGERATOR, SHORTY               | TRUE MANUFACTURING CO., INC. | TRCB-36                | -                 | 5.7  | -   | 1/5   | 115     | 1     |
| K-15               | 1   | BROILER, UNDER-FIRED, GAS, COUNTER | SOUTHBEND                    | HDC-36                 | -                 | -    | -   | -     | -       | -     |
| K-16               | 1   | STAND, EQUIPMENT                   | JOHN BOOS & CO.              | EESB-3015              | -                 | -    | -   | -     | -       | -     |
| K-17               | 1   | TABLE, WORK, ECONOMY               | JOHN BOOS & CO.              | FBL04824               | -                 | -    | -   | -     | -       | -     |
| K-18               | 1   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.              | EWSS-1648              | -                 | -    | -   | -     | -       | -     |
| K-19               | 1   | TABLE, WORK, ECONOMY               | JOHN BOOS & CO.              | FBL04824               | -                 | -    | -   | -     | -       | -     |
| K-20               | 2   | HEAT LAMP, DECORATIVE              | HATCO                        | DLH-750-AN             | -                 | 3.2  | 0.4 | -     | 120     | 1     |
| K-21               | 1   | PASS-THROUGH COUNTER               | PASS-THROUGH COUNTER         | -                      | -                 | -    | -   | -     | -       | -     |
| K-22               | 1   | REFRIGERATOR, SANDWICH/SALAD PREP  | TRUE FOOD SERVICE            | TSSU-36-12M-B          | -                 | 8.3  | -   | 1/3   | 115     | 1     |
| K-23               | 1   | TABLE, WORK                        | EAGLE GROUP/METAL MASTERS    | UT24609                | -                 | -    | -   | -     | -       | -     |
| K-24               | 1   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.              | EWSS-1672              | -                 | -    | -   | -     | -       | -     |
| K-25               | 2   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.              | EWSS-1636              | -                 | -    | -   | -     | -       | -     |
| K-26               | 1   | PRE-RINSE FAUCET, WALL MOUNT       | T & S BRASS                  | B-0133-01-CR           | -                 | -    | -   | -     | -       | -     |
| K-27               | 1   | SINK, NSF, 3 COMP, 16 GAUGE        | ADVANCE TABCO                | 93-23-60-18RL          | -                 | -    | -   | -     | -       | -     |
| K-28               | 1   | SINK, NSF, 3 COMP, 16 GAUGE        | ADVANCE TABCO                | 93-23-60-18RL          | -                 | -    | -   | -     | -       | -     |
| K-29               | 4   | SHELVING, POST                     | CENTAUR                      | 86PK3                  | -                 | -    | -   | -     | -       | -     |
| K-30               | 4   | SHELVING, WIRE                     | CENTAUR                      | 2448BR                 | -                 | -    | -   | -     | -       | -     |
| K-31               | 1   | SINK, SQUARE CORNER (NOT NSF)      | ADVANCE TABCO                | 4-1-24                 | -                 | -    | -   | -     | -       | -     |
| K-32               | 1   | FAUCET, WALL MOUNT                 | T & S BRASS                  | B-0231-CC-CR           | -                 | -    | -   | -     | -       | -     |
| K-33               | 1   | REFRIGERATOR, REACH-IN             | TRUE FOOD SERVICE            | T-72                   | -                 | 9.6  | -   | 1/2   | 115     | 1     |
| K-34               | 1   | HAND SINK, WALL MOUNT              | ADVANCE TABCO                | 7-PS-60                | -                 | -    | -   | -     | -       | -     |
| K-35               | 1   | HAND SINK, WALL MOUNT              | ***EXISTING**                | -                      | -                 | -    | -   | -     | -       | -     |

| ELECTRICAL LEGEND |                          |
|-------------------|--------------------------|
|                   | Walk-in Light Fixture    |
|                   | Duplex Receptacle        |
|                   | Junction Box             |
|                   | Ceiling Drop Down Outlet |
|                   | Convenience Outlet       |
|                   | Ansul Pull Station       |
|                   | Switch                   |

| REVISIONS                                               |  |
|---------------------------------------------------------|--|
| Updated layout with Hopplate range, Griddle equip stand |  |
| Updated layout with "as built" measurements             |  |
| Updated electrical plan                                 |  |
| DATE                                                    |  |
| 20180212                                                |  |
| 20180213                                                |  |
| 20180316                                                |  |

PROJECT NUMBER: 170801  
DATE: 2017-08-10 v. 20180316  
DRAWN BY: T. Roe  
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SCALE: 1/2" = 1'-0"

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Restaurant & Store Equipment Co.  
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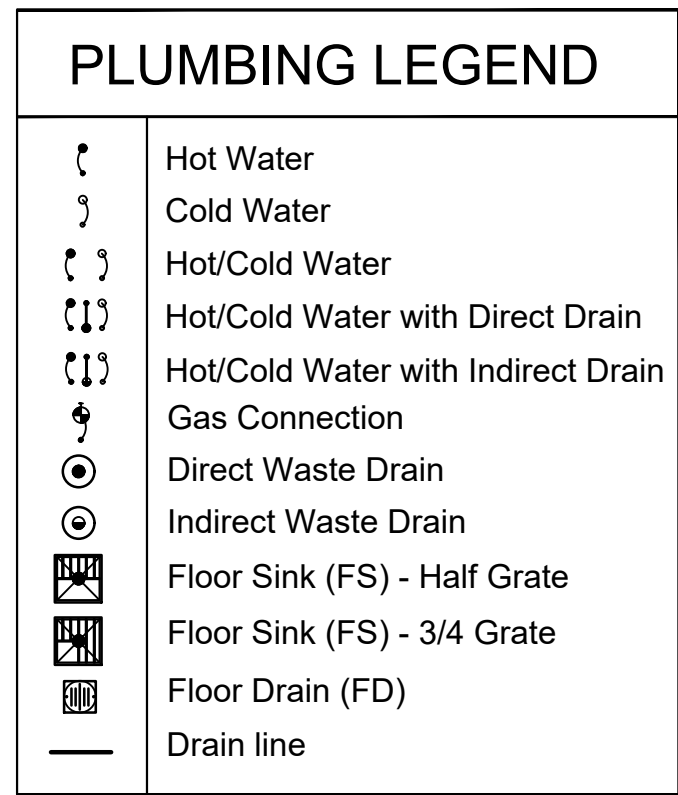


Tavernacle Expansion  
201 300 S  
Salt Lake City, UT 84111

DRAWING TITLE  
KITCHEN ELECTRICAL PLAN

DRAWING NUMBER  
K3  
01 of 05





| ITEM NO | QTY | EQUIPMENT CATEGORY                 | MANUFACTURER                 | MODEL NUMBER           | EQUIPMENT REMARKS | COLD WATER SIZE (IN) | COLD WATER AFF (IN) | HOT WATER SIZE (IN) | HOT WATER AFF (IN) | DIRECT DRAIN SIZE (IN) | DIRECT DRAIN AFF (IN) | INDIR DRAIN SIZE (IN) | INDIR DRAIN AFF (IN) | GAS SIZE (IN) | MBTUH | GAS AFF (IN) | GAS ROUGH-IN | PLUMBING REMARKS |
|---------|-----|------------------------------------|------------------------------|------------------------|-------------------|----------------------|---------------------|---------------------|--------------------|------------------------|-----------------------|-----------------------|----------------------|---------------|-------|--------------|--------------|------------------|
| K-01    | 1   | FREEZER, REACH-IN                  | TRUE FOOD SERVICE            | T-35F                  |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-02    | 1   | REFRIGERATOR, SANDWICH/SALAD PREP  | TRUE FOOD SERVICE            | TSSU-27-12M-B          |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-03    | 1   | SHELF, WALL MOUNT                  | ADVANCE TABCO                | WS-15-60               |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-04    | 1   | TABLE, WORK, ECONOMY               | JOHN BOOS & CO.              | FBLG3030               |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-05    | 1   | TYPE 1 HOOD                        | CAPTIVE AIRE                 | HOOD VENT              |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-05    | 1   | EXHAUST FAN                        | CAPTIVE AIRE                 | EXHAUST FAN            |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-05    | 1   | MAKE-UP AIR UNIT (MAU)             | CAPTIVE AIRE                 | MAKE-UP AIR UNIT (MAU) |                   | 1/2                  | ROOF                | -                   | -                  | 1 1/2                  | ROOF                  | -                     | -                    | 1             | 260   | ROOF         | -            | -                |
| K-05    | 1   | CURBING                            | CAPTIVE AIRE                 | CURBING                |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-05    | 1   | ELECTRICAL                         | CAPTIVE AIRE                 | ELECTRICAL             |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-05    | 1   | FIRE SUPPRESSION                   | CAPTIVE AIRE                 | FIRE SUPPRESSION       |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-06    | 2   | FRYER, DEEP FAT, GAS               | PITCO                        | 35C+-S                 |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 90    | 12           | -            | -                |
| K-07    | 1   | RANGE, RESTAURANT, GAS             | SOUTHBEND                    | S24E                   |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 147   | 12           | -            | -                |
| K-07A   | 1   | CHEESEMELTER, GAS                  | SOUTHBEND                    | P24-CM                 |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 20    | 12           | -            | -                |
| K-08    | 1   | REFRIGERATOR, SHORTY               | TRUE MANUFACTURING CO., INC. | TRCB-36                |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-09    | 1   | GRIDDLE, GAS                       | SOUTHBEND                    | HDC-36                 |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 90    | 12           | -            | -                |
| K-10    | 1   | BROILER, UNDER-FIRED, GAS, COUNTER | SOUTHBEND                    | HDC-12                 |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | 3/4           | 40    | 12           | -            | -                |
| K-11    | 1   | STAND, EQUIPMENT                   | JOHN BOOS & CO.              | EE58-3015              |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-12    | 1   | TABLE, WORK, ECONOMY               | JOHN BOOS & CO.              | FBLG4824               |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-13    | 1   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.              | EWSB-1648              |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-14    | 1   | TABLE, WORK, ECONOMY               | JOHN BOOS & CO.              | FBLG4824               |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-15    | 2   | HEAT LAMP, DECORATIVE              | HATCO                        | DLH-750-AN             |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-16    | 1   | -                                  | PASS-THROUGH COUNTER         | -                      |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-17    | 1   | REFRIGERATOR, SANDWICH/SALAD PREP  | TRUE FOOD SERVICE            | TSSU-36-12M-B          |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-18    | 1   | TABLE, WORK                        | EAGLE GROUP/METAL MASTERS    | UT2460B                |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-19    | 1   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.              | EWSB-1672              |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-20    | 2   | SHELF, WALL MOUNT                  | JOHN BOOS & CO.              | DWSB-1636              |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-21    | 1   | PRE-RINSE FAUCET, WALL MOUNT       | T & S BRASS                  | R-0133-01-CR           |                   | 1/2                  | 20                  | 1/2                 | 20                 | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-22    | 1   | SINK, NSF, 3 COMP, 16 GAUGE        | ADVANCE TABCO                | 93-23-60-18RL          |                   | 1/2                  | 20                  | 1/2                 | 20                 | 1 1/2                  | 18                    | -                     | -                    | -             | -     | -            | -            | -                |
| -       | -   | -                                  | -                            | -                      |                   | -                    | -                   | -                   | -                  | 1 1/2                  | 18                    | -                     | -                    | -             | -     | -            | -            | -                |
| -       | -   | -                                  | -                            | -                      |                   | -                    | -                   | -                   | -                  | 1 1/2                  | 18                    | -                     | -                    | -             | -     | -            | -            | -                |
| K-23    | 4   | SHELVING, POST                     | CENTAUR                      | 86PK3                  |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-23    | 4   | SHELVING, WIRE                     | CENTAUR                      | 2448BR                 |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-24    | 1   | SINK, SQUARE CORNER (NOT NSF)      | ADVANCE TABCO                | 4-1-24                 |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-25    | 1   | FAUCET, WALL MOUNT                 | T & S BRASS                  | B-0231-CC-CR           |                   | 1/2                  | 20                  | 1/2                 | 20                 | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-26    | 1   | REFRIGERATOR, REACH-IN             | TRUE FOOD SERVICE            | T-72                   |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |
| K-27    | 1   | HAND SINK, WALL MOUNT              | ADVANCE TABCO                | T-PS-60                |                   | 1/2                  | 20                  | 1/2                 | 20                 | 1-1/2                  | 18                    | -                     | -                    | -             | -     | -            | -            | -                |
| K-30    | 1   | HAND SINK, WALL MOUNT              | ***EXISTING***               |                        |                   | -                    | -                   | -                   | -                  | -                      | -                     | -                     | -                    | -             | -     | -            | -            | -                |

[illegible]

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**Tavernacle Expansion**  
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DRAWING TITLE

KITCHEN  
PLUMBING  
PLAN

DRAWING NUMBER

**K4**

04 of 05