## DESIGN CONSULTANTS

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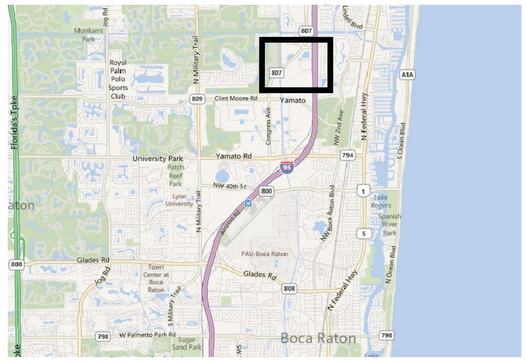
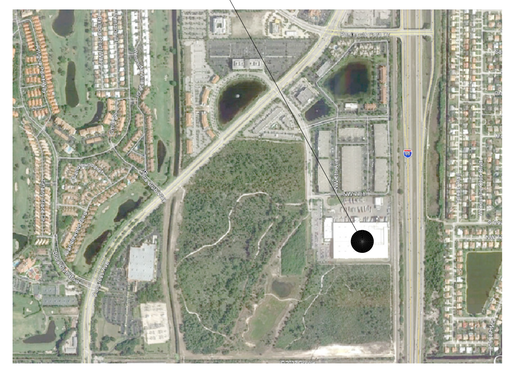
EMAIL: tmiller@esigroupusa.com

# KITCHEN RENOVATION FOR
# US FOODS, INC.
## SOUTH FLORIDA DIVISION

## LOCATION:




US FOODS



## 7598 NW 6TH AVENUE
## BOCA RATON, FL 33487

## PROJECT INFORMATION

### PROJECT DESCRIPTION
The project consists of remodel of the existing product demonstration kitchen and training rooms, as well as remodel of a portion of the existing office to be converted into more training rooms, a kitchen prep area, pantry, and storage.

### CONSTRUCTION TO BE IN ACCORDANCE WITH THE FOLLOWING CODES:
BUILDING: 2017 FLORIDA BUILDING CODE
PLUMBING: 2017 FLORIDA PLUMBING CODE
MECHANICAL: 2017 FLORIDA MECHANICAL CODE
ELECTRICAL: 2014 NATIONAL ELECTRICAL CODE / NFPA 70 (1)

### OCCUPANCY CLASSIFICATION
Main Occupancy (Section 302.1): Low -Hazard Storage Group S-2 (Section 311.3)
Accessory Occupancies (Section 508.2): Business Group B (section 304.1)
Assembly Group A-3 (section 303.1)

### TYPE OF CONSTRUCTION
TYPE 2B, NON-COMBUSTIBLE (Section 602.2)

### FIRE PROTECTION
The entire facility has an existing fully automatic sprinkeler system. (Chapter 9)

### FACILITY DATA:

NUMBER OF STORIES
One Story with Mezzanines (Section 505)

BUILDING AREA
Existing Building : 337,405 S.F.
Renovation Area : 5,940 S.F.
Locker Room Renovation -Alternate #1: 656 S.F.
Allowable Area : Unlimited (Sec. 507)

BUILDING HEIGHT
Existing Building Height : 40'-0"
Allowable Building Height : 75' (Sec. 504.2 and Table 503)
(MUNICIPALITY HEIGHT RESTRICTION IS 40'-0")

| CIVIL | ARCHITECTURAL | STRUCTURAL | PLUMBING | MECHANICAL | FIRE PROTECTION | ELECTRICAL |
|---|---|---|---|---|---|---|
| | A001 ABBREVIATIONS AND SYMBOLS | S101 FRAMING PLAN AND DETAILS | P001 ABBREVIATIONS, SYMBOLS, AND NOTES | H001 ABBREVIATIONS, SYMBOLS, AND NOTES | SEE SPECIFICATIONS FOR REQUIREMENTS | E001 ELECTRICAL SYMBOLS & NOTES |
| | A002 PARTIAL FLOOR PLAN - LIFE SAFETY | S102 JOIST REINFORCEMENT | P101 PLUMBING DEMOLITION FLOOR PLANS | H101 HVAC DEMOLITION FLOOR PLAN | PER SHEET A201 | E101 DEMOLITION PLAN |
| | A010 ARCHITECTURAL SITE PLAN | | P201 ENLARGED DRAIN, WASTE, & VENT PLAN | H201 ENLARGED HVAC FLOOR PLAN | | E102 DEMOLITION PLAN |
| | A100 OVERALL FLOOR PLAN | | P202 ENLARGED DOMESTIC WATER PLAN | H202 HVAC PIPING PLANS | | E201 LIGHTING FLOOR PLAN |
| | A101 EXISTING/DEMO PLANS | | P301 DWV AND DOMESTIC WATER ISOMETRICS | H501 DETAILS | | E211 POWER & SYSTEMS FLOOR PLAN |
| | A201 ENLARGE FLOOR PLAN | | P501 DETAILS | H801 SCHEDULES | | E301 PANEL SCHEDULES |
| | A221 REFLECTED CEILING\FLOOR FINISH PLAN | | P801 SCHEDULES | | | E801 ELECTRICAL SCHEDULES |
| | A222 ENLARGED PLANS FOR PROD. EVAL. & DETL. | | | | | E802 ELECTRICAL SCHEDULES |
| | A231 PARTIAL ROOF PLAN | | | | | |
| | A501 ARCHITECTURAL DETAILS | | | | | |
| | A502 ARCHITECTURAL DETAILS | | | | | |
| | A503 ARCHITECTURAL DETAILS | | | | | |
| | A701 INTERIOR ELEVATIONS | | | | | |
| | A702 INTERIOR ELEVATIONS | | | | | |
| | A703 INTERIOR ELEVATIONS | | | | | |
| | A801 ROOM FINISHES AND DOOR SCHEDULES | | | | | |
| | A901 EQUIPMENT PLAN | | | | | |


ESI ARCHITECTURAL & ENGINEERING SERVICES INC.
SMART BUILDING SOLUTIONS
Arch. Bus. Lic. Nbr. AA26001599 Eng. Bus. Lic. Nbr. 28045
950 Walnut Ridge Drive | Hartland, WI 53029 | 262.369.3535 T | 262.369.3592 F


KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS
1 2-17-20 – ADDENDUM #1
2 –
3 –
4 –
5 –
6 –
7 –
8 –
9 –
10 –

| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
TITLE SHEET

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
T001

TITLE

# ABBREVIATIONS

## A

| | |
|---|---|
| ABOVE FINISHED FLOOR | A.F.F. |
| ACOUSTICAL | A.C. |
| ACTUAL | ACT |
| ADDENDUM | ADD. |
| ADDITION | ADD. |
| ADHESIVE | ADH |
| AGGREGATE | AGGR |
| ADJACENT | ADJ. |
| AIR CONDITION (ING) | A.C. |
| AIR INFILTRATION BARRIER | A.I.B. |
| ALARM | ALM |
| ALLOWANCE | ALLOW. |
| ALTERNATE | ALT |
| ALTERNATING CURRENT | AC |
| ALUMINUM | AL |
| AMERICAN CONCRETE INSTITUTE | ACI |
| AMERICAN GAS ASSOCIATION | AGA |
| AMERICAN INSTITUTE OF ARCHITECTS | AIA |
| AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS | ADJ. |
| AMERICAN INSTITUTE OF STEEL CONSTRUCTION | AISC |
| AMERICAN IRON & STEEL INSTITUTE | AISC |
| AMERICAN SOCIETY OF CIVIL ENGINEERS | ASCE |
| AMERICAN SOCIETY OF HEATING, REFRIGERATING & AIR-CONDITIONING ENGINEERS | ASHRAE |
| AMERICAN SOCIETY OF MECHANICAL ENGINEERS | ASME |
| AMERICAN SOCIETY FOR TESTING MATERIALS | ASTM |
| AMERICAN STANDARDS ASSOCIATION | ASA |
| AMERICAN WIRE GAGE | AWG |
| AMPERE | AMP |
| APARTMENT | APT. |
| APPENDIX | APPX |
| APPROVED | APPD |
| APPROXIMATE | APPROX |
| ARC WELD | ARCW |
| ARTIFICIAL | ART. |
| AREA | A |
| ASBESTOS | ASB |
| ASPHALT | ASPH |
| ASSISTANT | ASST |
| ASSOCIATION | ASSN |
| AUTOMATIC | AUTO |
| AVENUE | AVE |
| AVERAGE | AVG |

## B

| | |
|---|---|
| BARREL | BBL |
| BEAM | BM |
| BEARING | BRG |
| BELL & SPIGOT | B & S |
| BENCH MARK | BM |
| BENDING MOMENT | M |
| BETWEEN | BET. |
| BILL OF MATERIALS | BM |
| BIRMINGHAM WIRE GAGE | BWG |
| BLOCK | BLK |
| BLOCKING | BLKG |
| BLOWER | BLO |
| BLUEPRINT | BP |
| BOARD | BD |
| BOILER | BLR |
| BOTH SIDES | BS |
| BOTTOM | BOT |
| BRASS | BRS |
| BRINNELL HARNESS | BH |
| BRITISH THERMAL UNITS | BTU |
| BRONZE | BRZ |
| BROWN & SHARP | B & S |
| BUILDING | BLDG |
| BUILDING LINE | BL |

## C

| | |
|---|---|
| CABINET | CAB |
| CAULKING | CLKG |
| CARLOAD | CL |
| CARPET | CPT |
| CAST IRON | CI |
| CAST-IRON PIPE | CIP |
| CATALOG | CAT |
| CEILING | CLG |
| CEMENT | CEM |
| CENTER | CTR |
| CENTERLINE | CL |
| CENTER TO CENTER | C/C |
| CENTIGRADE | C |
| CENTIMETER | CM |
| CERAMIC | CER |
| CERAMIC TILE | CT |
| CHANGE ORDER | CO |
| CIRCLE | CIR |
| CIRCUIT | CKT |
| CIRCULAR MIL | CM |
| CIRCUMFERENCE | CIRC |
| CLEAN OUT | CO |
| CLEAR | CLR |
| CLOSET | CLO |
| COATED | CTD |
| COEFFICIENT | COEF |
| COLD ROLLED | CR |
| COLD WATER | CW |
| COLUMN | COL |
| COMBINATION | COMB |
| COMMON | COM |
| COMPANY | CO |
| COMPOSITION | COMP |
| COMPRESSOR | COMPR |
| CONCRETE | CONC |
| CONCRETE MASONRY UNIT | CMU |
| CONDUIT | CND |
| CONSTRUCTION | CONST |
| CONTINUE (OUS) | CONT |
| CONTRACTOR | CONTR |

## C (CONT.)

| | |
|---|---|
| CONTRACTOR TO VERIFY | CTV |
| CONTROL JOINT | CJ |
| CORPORATION | CORP |
| CORRUGATE | CORR |
| COUNTERSINK | CSK |
| COURSES | C. |
| CROSS SECTION | XSECT |
| CUBIC CENTIMETER | CC |
| CUBIC FEET PER MINUTE | CFM |
| CUBIC FOOT | CU FT |
| CUBIC INCH | CU IN |
| CUBIC YARD | CU YD |

## D

| | |
|---|---|
| DEAD LOAD | DL |
| DECIBEL | DB |
| DECIMAL | DEC |
| DEGREE | DEG (°) |
| DELINEATION | DEL |
| DEPARTMENT | DEPT |
| DESIGN | DSGN |
| DETAIL | DET |
| DEW POINT | DP |
| DIAGONAL | DIAG |
| DIAGRAM | DIAG |
| DIAMETER | DIA |
| DIMENSION | DIM. |
| DIRECT CURRENT | DC |
| DITTO | DO. |
| DIVISION | DIV |
| DOOR | DR |
| DOUBLE | DBL |
| DOUBLE HUNG | DH |
| DOWN | DN |
| DOWN SPOUT | DS |
| DOZEN | DOZ |
| DRAIN | DR |
| DRAWING | DWG |
| DRINKING FOUNTAIN | DF |
| DRYWALL | DW |
| DUPLICATE | DUP |

## E

| | |
|---|---|
| EAST | E |
| ELECTRIC (AL) | ELEC |
| ELECTRIC WATER COOLER | EWC |
| ELEVATION | EL |
| ELEVATOR | ELEV. |
| ENAMEL | ENAM |
| ENGINEER | ENGR |
| ENGINEERING | ENGRG |
| EQUAL | EQ |
| EQUIPMENT | EQUIP. |
| EQUIVALENT DIRECT RADIATION | EDR |
| ESTIMATE | EST |
| EXCAVATE | EXC. |
| EXHAUST | EXH |
| EXISTING | EXIST. |
| EXPANSION (JOINT) | EXP |
| EXTERIOR | EXT |
| EXTRA HEAVY | X HVY |
| EXTRA STRONG | X STR |
| EXTRUDE | EXTR |

## F

| | |
|---|---|
| FABRICATE | FAB |
| FACE BRICK | FB |
| FAHRENHEIT | F |
| FEDERAL SPECIFICATIONS | FS |
| FEET | FT (') |
| FEET BOARD MEASURE | FBM |
| FIBERGLASS REINFORCED PLASTIC | FRP |
| FIGURE | FIG. |
| FINISH | FIN. |
| FINISH FLOOR | FIN. FL |
| FIRE EXTINGUISHER | FE |
| FIRE EXTINGUISHER CABINET | FEC |
| FIREPROOF | FPRF |
| FITTING | FTG |
| FIXTURE | FIX. |
| FLASHING | FL |
| FLOOR (ING) | FL |
| FLOOR DRAIN | FD |
| FLOORING | FLG |
| FLUORESCENT | FLUOR |
| FOOT | FT (') |
| FOOT-CANDLE | FC |
| FOOT-LAMBERT | FL |
| FOOT-POUNDS | FT LB |
| FOOTING | FTG |
| FOUNDATION | FDN |

## G

| | |
|---|---|
| GAGE OR GAUGE | GA |
| GALLON | GAL |
| GALLONS PER MINUTE | GPM |
| GALVANIZE (D) | GALV |
| GALVANIZED IRON | GI |
| GAS | G |
| GIRDER | G |
| GLASS | GL |
| GOVERNMENT | GOVT |

## G (CONT.)

| | |
|---|---|
| GRADE | GR |
| GYPSUM | GYP |
| GYPSUM WALL BOARD | GWB |

## H

| | |
|---|---|
| HALF HARD | 1/2H |
| HALF-ROUND | 1/2RD |
| HARD | H |
| HARDWARE | HDW |
| HEAD | HD |
| HEATER | HTR |
| HEATING/VENTILATING/AIR CONDITIONING | HVAC |
| HEAVY | HVY |
| HEIGHT | HGT |
| HEXAGON | HEX |
| HIGH POINT | H PT |
| HIGH PRESSURE | HP |
| HIGHWAY | HWY |
| HOLLOW METAL | H.M. |
| HORIZONTAL | HOR |
| HORSEPOWER | HP |
| HOSPITAL | HOSP |
| HOT WATER | HW |
| HOUR | HR |
| HOUSE | HSE |
| HYDRAULIC | HYD |

## I

| | |
|---|---|
| ILLUMINATING ENGINEERING SOCIETY | IES |
| ILLUSTRATE | ILLUS |
| IMPREGNATE | IMPG |
| INCH | IN (") |
| INCINERATOR | INCIN |
| INCORPORATED | INC |
| INDUSTRIAL | IND |
| INFORMATION | INFO |
| INSIDE DIAMETER | ID |
| INSULATE (D) | INS |
| INTERCOMMUNICATION | INTERCOM |
| INTERIOR | INT |
| IRON | I |
| IRON-PIPE SIZE | IPS |

## J

| | |
|---|---|
| JOINT | JT |
| JOIST | JST |
| JUNCTION | JCT |
| JUNIOR | JR |

## K

| | |
|---|---|
| KILOGRAM | KG |
| KILOMETER | KM |
| KILOWATT | KW |
| KILOWATT HOUR | KWH |
| KIP (1,000 lb.) | K |
| KNOCKED DOWN | KD |
| KNOCKOUT | KO |

## L

| | |
|---|---|
| LABORATORY | LAB |
| LAMINATE | LAM |
| LATEX ENAMEL | LE |
| LATITUDE | LAT |
| LAVATORY | LAV |
| LEFT | L |
| LEFT HAND | LH |
| LENGTH | LG |
| LENGTH OVER-ALL | LOA |
| LICENSE | LIC |
| LIGHT | LT |
| LINEAR | LIN |
| LIVE LOAD | LL |
| LOGARITHM | LOG. |
| LONG | LG |
| LOW PRESSURE | LP |
| LUMENS PER WATT | LPW |

## M

| | |
|---|---|
| MAIN | MN |
| MALLEABLE IRON | MI |
| MANHOLE | MH |
| MANUAL | MAN |
| MANUFACTURE (ER) | MFR |
| MANUFACTURING | MFG |
| MARK | MK |
| MASONRY OPENING | MO |
| MATERIAL | MATL |
| MATERIAL LIST | ML |
| MAXIMUM | MAX |
| MECHANICAL | MECH |
| MEDIUM | MED |
| MEMBRANE | MEMB |
| MEMORANDUM | MEMO |
| METAL | MET. |
| METER (INSTRUMENT OR MEASUREMENT OF LENGTH) | M |
| MEZZANINE | MEZZ |
| MILITARY | MIL |
| MILLIMETER | MM |
| MINIMUM | MIN |
| MINUTE | MIN (') |
| MISCELLANEOUS | MISC |
| MIXTURE | MIX. |
| MODEL | MOD |
| MONTH | MO |
| MOTOR | MOT |
| MOTOR GENERATOR | MG |
| MULTIPLE | MULT |

## N

| | |
|---|---|
| NATIONAL BUREAU OF STANDARDS | NBS |
| NATIONAL ELECTRIC CODE | NEC |
| NATIONAL ELECTRICAL MANUFACTURERS ASSN. | NEMA |
| NATIONAL LUMBER MANUFACTURERS ASSN. | NLMA |
| NATURAL | NAT |

## N (CONT.)

| | |
|---|---|
| NEGATIVE | NEG |
| NOMINAL | NOM |
| NORTH | N |
| NOT IN CONTRACT | NIC |
| NOT TO SCALE | NTS |
| NUMBER | NO. |

## O

| | |
|---|---|
| OBSCURE | OB |
| OBSOLETE | OBS |
| OCTAGON | OCT |
| OFFICE | OFF |
| ON CENTER | OC |
| OPENING | OPNG |
| OPPOSITE | OPP |
| ORIGINAL | ORIG |
| OUNCE | OZ |
| OUTSIDE DIAMETER | OD |
| OVER-ALL | OA |
| OVERHEAD | OVHD |

## P

| | |
|---|---|
| PAGE | P |
| PAINT (ED) | PTD |
| PAIR | PR |
| PANEL | PNL |
| PARAGRAPH | PARR. |
| PARALLEL | PAR. |
| PART | PT. |
| PARTITION | PTN |
| PASSENGER | PASS. |
| PATENT | PAT. |
| PENNY (NAILS,ETC.) | d |
| PERFORATE | PERF |
| PERMANENT | PERM |
| PERPENDICULAR | PERP |
| PHASE | PH |
| PHOTOGRAPH | PHOTO |
| PIECE | PC |
| PINT | PT |
| PLATE | PL |
| PLUMBING | PLMB. |
| PNEUMATIC | PNEU |
| POINT | PT |
| POLE | P |
| POLISH | POL |
| PORCELAIN | PORC |
| POSITIVE | POS |
| POST OFFICE | P.O. |
| POUND | LB |
| POUNDS PER CUBIC FOOT | PCF |
| POUNDS PER SQUARE FOOT | PSF |
| POUNDS PER SQUARE INCH | PSI |
| PREFABRICATED | PREFAB |
| PREFERRED | PFD |
| PRIVATE AUTOMATIC EXCHANGE | PAX |
| PRIVATE BRANCH EXCHANGE | PBX |
| PROJECT | PROJ |
| PUBLIC ADDRESS | PA |
| PUBLICATION | PUB |

## Q

| | |
|---|---|
| QUALITY | QLTY |
| QUARRY TILE | Q.T. |
| QUART | QT |
| QUARTER | QTR |
| QUARTER-HARD | 1/4H |
| QUARTER-ROUND | 1/4RD |

## R

| | |
|---|---|
| RADIATOR | RAD |
| RADIUS | R |
| RAILROAD | RR |
| RECEIVED | RECD |
| RECEPTACLE | RECP |
| REFERENCE | REF |
| REFRACTORY | REFR |
| REFRIGERATE | REFR |
| REGISTER | REG |
| REINFORCE (D) (ING) | REINF |
| RELATIVE HUMIDITY | RH |
| REMOVE | REM |
| REPAIR | REP |
| REPLACE | REPL |
| REPRODUCE | REPRO |
| REQUIRED | REQD |
| REQUISITION | REQ |
| RETURN | RET |
| REVISE | REV |
| RIGHT HAND | RH |
| RIGHT OF WAY | R/W |
| ROAD | RD |
| ROCKWELL HARNESS | RH |
| ROOF | RF |
| ROOF DRAIN | RD |
| ROOM | RM |
| ROUGH OPENING | RO |
| ROUND | RD |

## S

| | |
|---|---|
| SAFETY | SAF |
| SANITARY | SAN |
| SCHEDULE | SCH |
| SECOND | SEC (") |
| SELECT | SEL |
| SEPARATE | SEP |
| SERVICE | SERV |
| SEWER | SEW |
| SHEET | SH |
| SHIPMENT | SHPT |
| SIDE | S |
| SIDING | SDG |

## S (CONT.)

| | |
|---|---|
| SIMILAR | SIM |
| SKETCH | SK |
| SLOPE | SLP |
| SOCIETY OF AUTOMOTIVE ENGINEERS | SAE |
| SOIL PIPE | SP |
| SOUTH | S |
| SPEAKER | SPKR |
| SPECIAL | SPL |
| SPECIFIC GRAVITY | SP GR |
| SPECIFICATION | SPEC |
| SQUARE | SQ |
| STAINLESS STEEL | SST |
| STANDARD | STD |
| STEAM | ST |
| STEEL | STL |
| STOCK | STK |
| STORAGE | STG |
| STORM WATER | ST W |
| STREET | ST |
| STRUCTURAL | STR |
| SUBSTITUTE | SUB |
| SUPERINTENDENT | SUPT |
| SUPERSEDE | SUPSD |
| SUPERVISE | SUPV |
| SUPPLY | SUP |
| SURFACE | SUR |
| SUSPENDED | SUS |
| SWITCH | SW |
| SWITCHBOARD | SWBD |
| SYMMETRICAL | SYM |
| SYNTHETIC | SYN |
| SYSTEM | SYS |

## T

| | |
|---|---|
| TANGENT | TAN |
| TARPAULIN | TARP |
| TECHNICAL | TECH |
| TEE | T |
| TELEPHONE | TEL |
| TELETYPEWRITER EXCHANGE | TWX |
| TELEVISION | TV |
| TEMPERATURE | TEMP |
| TERRA COTTA | TC |
| TERRAZZO | SHPT |
| THAT IS | IE |
| THERMOSTAT | THERMO |
| THICK | THK |
| THOUSAND | M |
| THROUGH | THRU |
| TOILET | TLT |
| TOLERANCE | TOL |
| TONGUE & GROOVE | T & G |
| TOP OF STEEL | TOS |
| TOP OF MASONRY | TOM |
| TOTAL | TOT |
| TREAD | T |
| TRANSFORMER | TRANS |
| TUBING | TUB. |
| TYPICAL | TYP |

## U

| | |
|---|---|
| ULTIMATE | ULT |
| UNDERWRITERS' LABORATORIES, INC. | UL |
| UNITED STATES GAGE | USG |
| UNLESS NOTED OTHERWISE | UNO |
| URINAL | UR |

## V

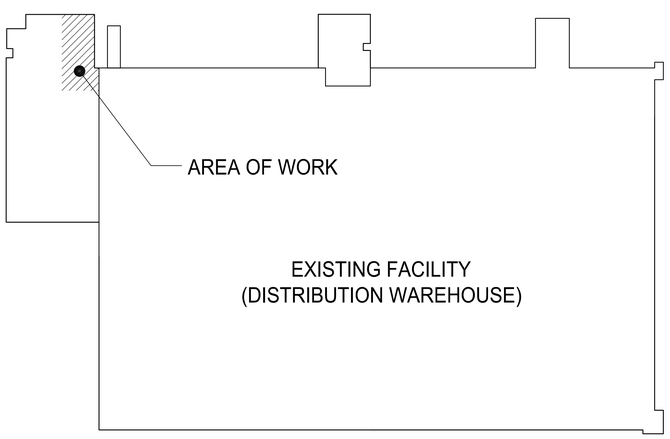
| | |
|---|---|
| VACUUM | VAC |
| VALVE | V |
| VAPOR BARRIER | VB |
| VENT PIPE | VP |
| VENTILATE | VENT. |
| VERSUS | VS |
| VERTICAL | VERT |
| VINYL BASE | V.B. |
| VINYL TILE | VT |
| VITREOUS | VIT |
| VOLT | V |
| VOLUME | VOL |

## W

| | |
|---|---|
| WAREHOUSE | WHSE |
| WATER CLOSET | WC |
| WATER HEATER | WH |
| WATT | W |
| WEATHER STRIPPING | WS |
| WEATHERPROOF | WP |
| WEEK | WK |
| WEIGHT | WT |
| WELDED WIRE FABRIC | WWF |
| WEST | W |
| WIDTH IN CLEAR | W.I.C. |
| WIDTH | W |
| WITH | WI |
| WITHOUT | W/O |
| WOOD | WD |
| WROUGHT IRON | WI |

## Y

| | |
|---|---|
| YARD | YD |
| YEAR | YR |
| YIELD POINT | YP |
| YIELD STRENGTH | YS |




NORTH

KEY PLAN
N.T.S.

# MATERIALS KEY

- UNDISTURBED EARTH
- COMPACTED EARTH FILL
- POROUS/GRANULAR FILL
- SAND
- CONCRETE
- MASONRY
  NOTE: PATTERN MAY ALSO BE USED FOR DEFINING AREA
- STEEL
- STEEL - SM. SCALE SHAPES
- WOOD
- WOOD - ROUGH
- PLYWOOD
- GLASS
- BATT INSULATION
- RIGID INSULATION - WALL
- RIGID INSULATION - FLOOR
- RIGID INSULATION - ROOF
- FOAM INSULATION
- GYPSUM WALL BOARD
- CARPET
- RESILIENT FLOORING

# SYMBOLS

- SECTION/ELEVATION/DETAIL NUMBER
- TYPICAL SECTION/ELEVATION/DETAIL TAG
- SHEET NUMBER WHERE SECTION/ELEVATION IS SHOWN
- BUILDING SECTION REFERENCE (1 / A401)
- WALL SECTION TAG (1 / A401)
- DETAIL SECTION REFERENCE TAG (1 / A500)
- DETAIL REFERENCE TAG (1 / A500)
- INTERIOR ELEVATION TAG (1 / A600)
- EXTERIOR ELEVATION TAG (1 / A401)
- POINT ELEVATION (100'-0")
- DOOR SYMBOL (100A)
- WINDOW TAG (W1)
- ROOM NO. TAG (OPEN OFFICE AREA / 100 / 150 S.F.)
- PARTITION TYPE (A)
- REVISION TAG (1)
- BEARING ELEV. / FLOOR LINE (FIRST FLOOR ELEV. = 100'-0")
- BREAK LINE
- 'S' BREAK LINE
- NEW DOOR AND REFERENCE MARK (100A)
- EXISTING DOOR
- NORTH SYMBOL
- EXISTING 1 HR. WALL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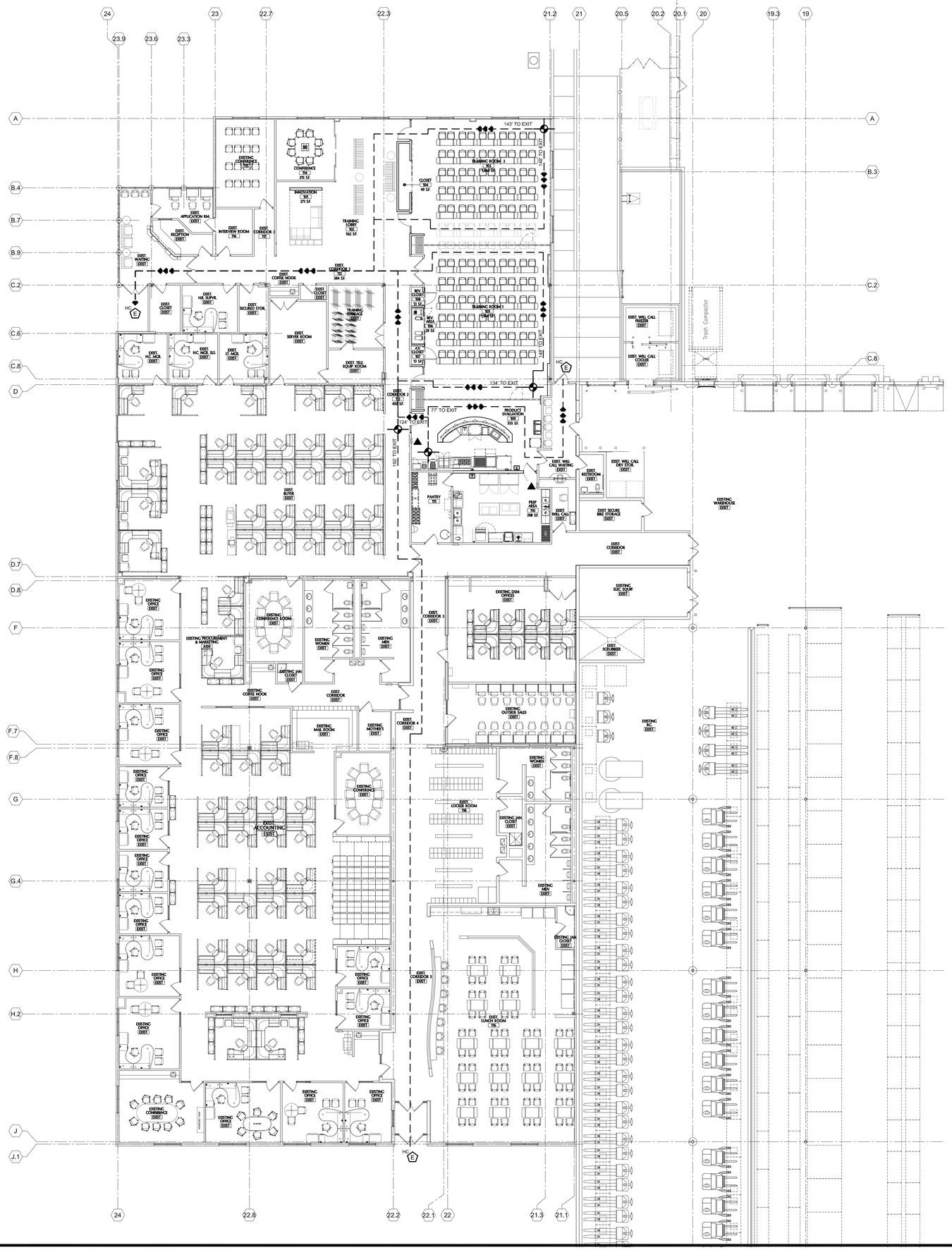
| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
ABBREVIATIONS & SYMBOLS

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A001

ARCHITECTURAL




## OCCUPANT LOAD:

Occupant Load (Sec. 1003.2.2.2) :

Assembly Occupancy;

2,168 sf net /15 sf net = 145 occupants (Sec. 1004)

Office Occupancy:

36,385 sf gross /100 sf gross = 364 occupants (Sec. 1004)

Warehouse Occupancy:

304,104 sf gross /500 sf gross = 609 occupants (Sec. 1004)

Total occupants in facility = 1,118 occupants

## MEANS OF EGRESS:

Travel Distances (Table 1016.1) ;

Assembly (A-3) 250 (sprinkled)
Business (B) 300 (sprinkled)
Storage (S-1) 400 (sprinkled)

## GENERAL NOTES:

1. SEE ELECTRICAL DRAWINGS FOR EMERGENCY EXIT SIGNAGE AND EMERGENCY LIGHTING.

## SYMBOLS LEGEND:

TRAVEL DISTANCE (FBC TABLE 1016.1)

DENOTES TRAVEL DISTANCES ORIGIN AND EXIT

HC E — ADA ACCESSIBLE EGRESS / ACCESS 3'-0" x 7'-0" DOOR W/ EXIT LIGHT, EXIT HARDWARE

E — EMERGENCY EGRESS / ACCESS 3'-0" x 7'-0" DOOR W/ EXIT LIGHT, EXIT HARDWARE

▲ — FIRE EXTINGUISHER (TYPE K) LOCATIONS PER CODE. (Sec. 906.1) SEE DETAIL 16/A501.

## FIXTURE COUNT:

Minimum number of required plumbing fixture (Table 403.1) :

Assembly Occupancy (A-3):

73 (M) occupants /125 = 1 WC
73 (F) occupants /65 = 2 WC
73 (M) occupants /200 = 1 Lav.
69 (F) occupants /200 = 1 Lav.
137 occupants /500 = 1 Drinking Fountain

Business (B):

182 (M) occupants /50 +1 = 5 WC
182 (F) occupants /50 +1 = 5 WC
182 (M) occupants /80 +1 = 4 Lav.
182 (F) occupants /80 +1 = 4 Lav.
364 occupants /100 = 4 Drinking Fountain
1 service sink

Storage (S-1):

305 (M) occupants /100 = 4 WC
305 (F) occupants /100 = 4 WC
305 (M) occupants /100 = 4 Lav.
305 (F) occupants /100 = 4 Lav.
609 occupants /1,000 = 1 Drinking Fountain
1 service sink

Need:

10 WC (6 WC 4 UR) (M) and 11 WC (F)
9 Lavs. (M) and 9 Lavs. (F)
6 Drinking Fountain
3 service sink

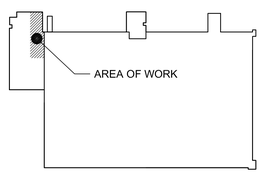
Existing:

8 WC-10 Urinals (M) and 12 WC (F)
11 Lavs. (M) and 9 Lavs. (F)
7 Drinking Fountain
4 service sink

NORTH

## PARTIAL FLOOR PLAN - LIFE SAFETY

3/32" = 1'-0"




NORTH

## KEY PLAN

N.T.S.

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| DATE: | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: | CHK'D By: |
| MAS | TPG |

SHEET TITLE

PARTIAL FLOOR PLAN - LIFE SAFETY

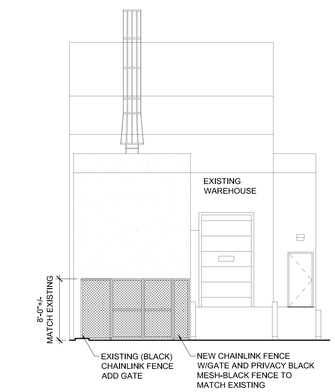
PRELIMINARY DWGS.

FINAL CONST. DWGS. ■

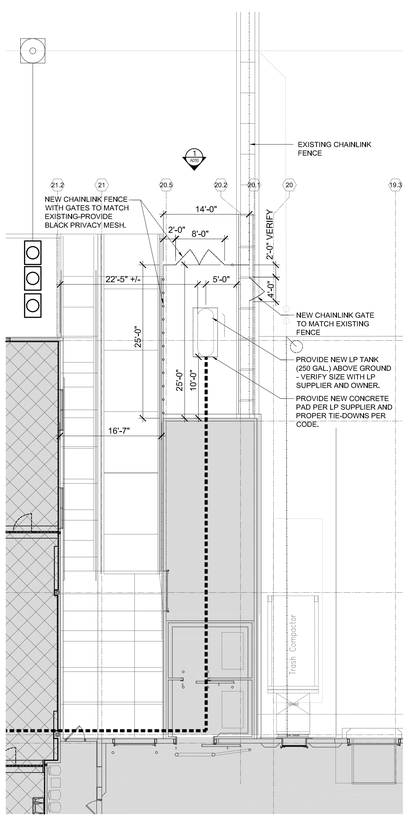
SHEET NUMBER

A002

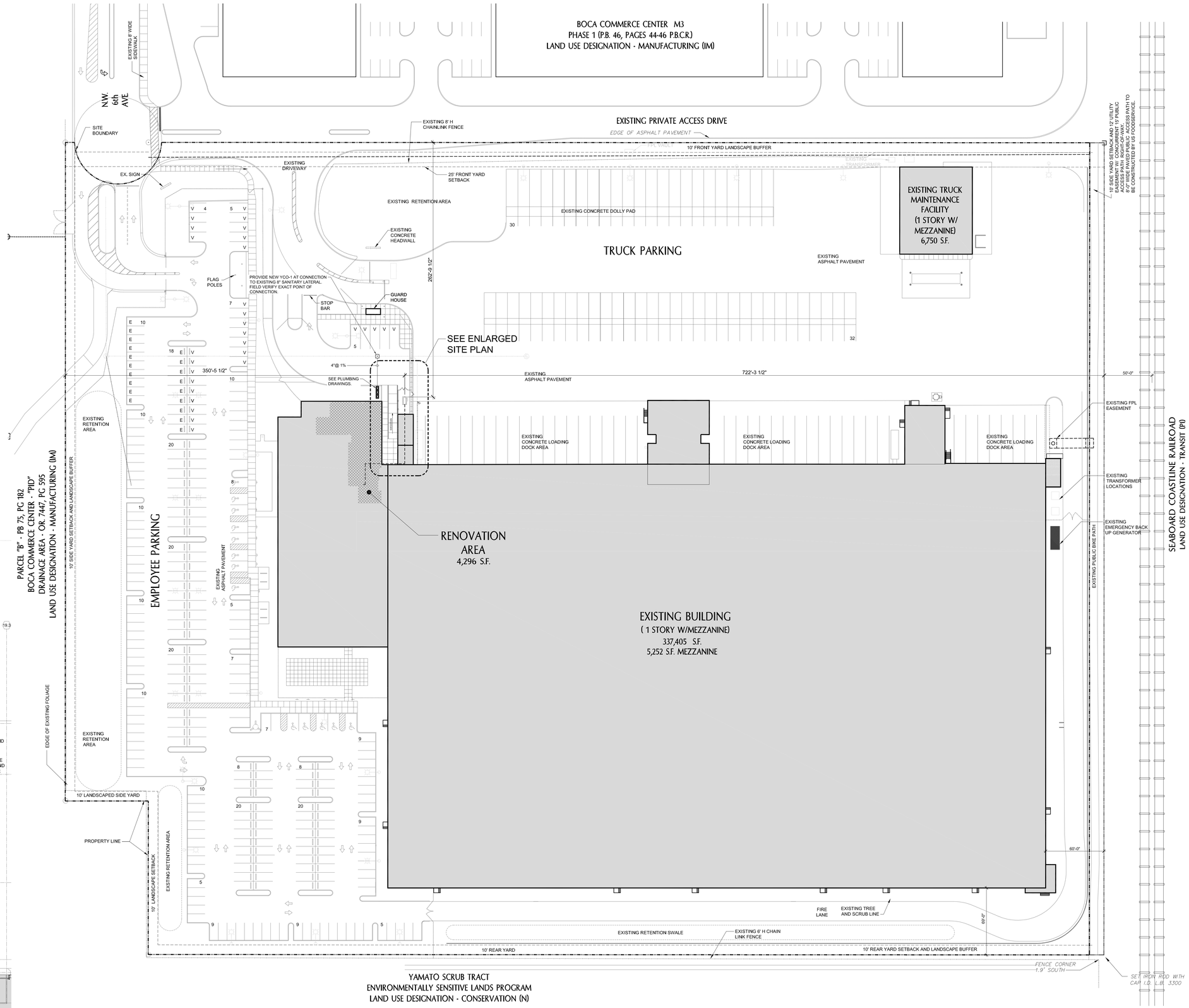
ARCHITECTURAL




1 A010 FENCE ELEVATION
1/8" = 1'-0"




NORTH
ENLARGED SITE PLAN
1" = 10'-0"




NORTH
ARCHITECTURAL SITE PLAN
1" = 40'-0"

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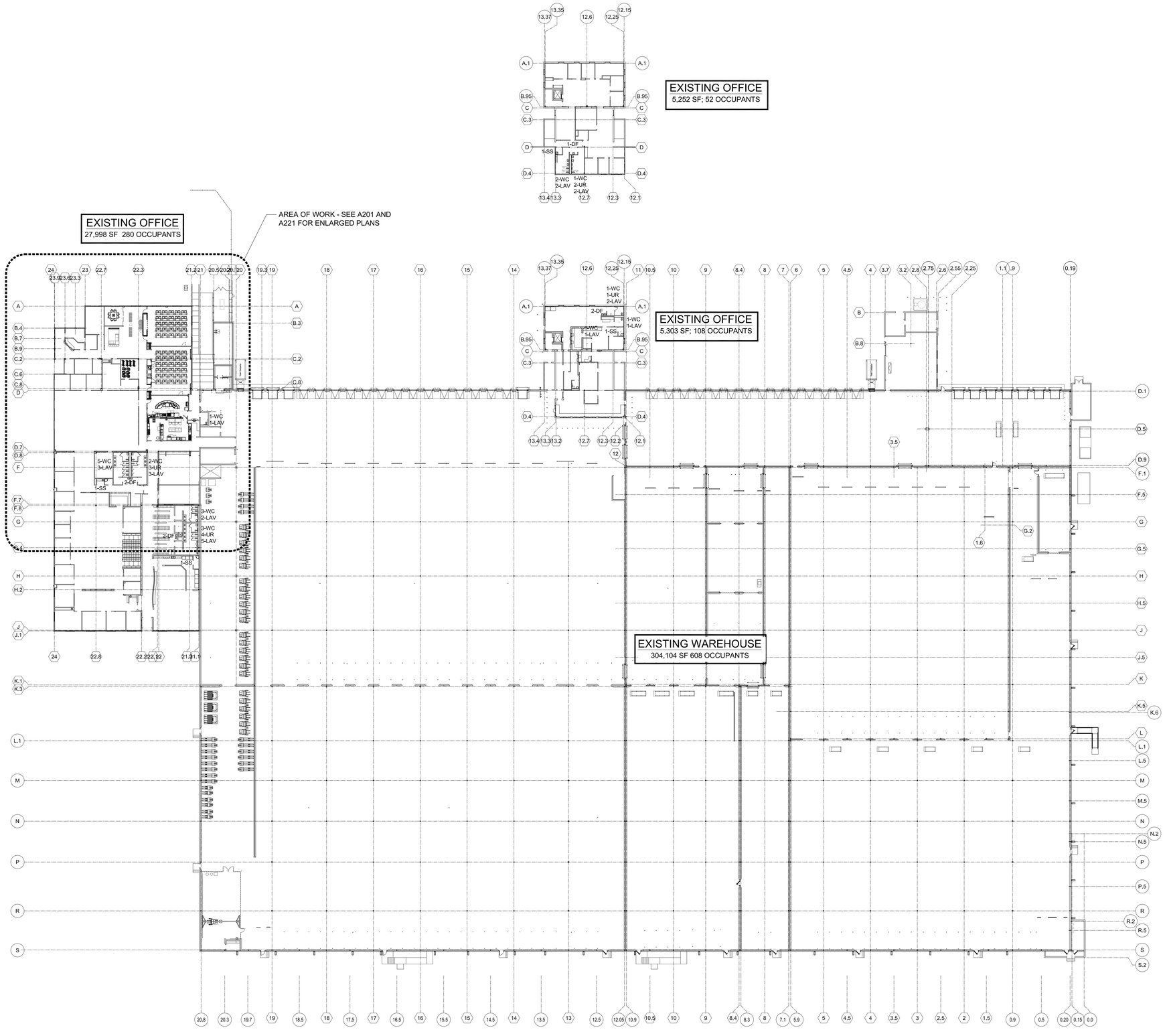
| DATE: 1-6-20 | JOB NO. 50-1414-19 |
|---|---|
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
ARCHITECTURAL SITE PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
A010

ARCHITECTURAL




## OVERALL FLOOR PLAN

1/32" = 1'-0"

NORTH

## OCCUPANT LOAD:

Occupant Load (Sec. 1003.2.2.2) :

Assembly Occupancy (A-3):
2,168 sf net /15 sf net = 145 occupants (Sec. 1004)

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36,385 sf gross /100 sf gross = 364 occupants (Sec. 1004)

Warehouse Occupancy (B):
304,104 sf gross /500 sf gross = 609 occupants (Sec. 1004)
Total occupants in facility = 1,118 occupants

## MEANS OF EGRESS:

Travel Distances (Table 1016.1) :

Assembly (A-3) 250 (sprinkled)
Business (B) 300 (sprinkled)
Storage (S-1) 400 (sprinkled)

## GENERAL NOTES:

1. SEE ELECTRICAL DRAWINGS FOR EMERGENCY EXIT SIGNAGE AND EMERGENCY LIGHTING.

## SYMBOLS LEGEND:

- TRAVEL DISTANCE (FBC TABLE 1016.1)
- DENOTES TRAVEL DISTANCES ORIGIN AND EXIT
- 2-HR FIRE RATED BARRIER OR SEPARATION
- HC E — ADA ACCESSIBLE EGRESS / ACCESS 3'-0" x 7'-0" DOOR W/ EXIT LIGHT, EXIT HARDWARE
- E — EMERGENCY EGRESS / ACCESS 3'-0" x 7'-0" DOOR W/ EXIT LIGHT, EXIT HARDWARE
- FIRE EXTINGUISHER (TYPE K) LOCATIONS PER CODE, (Sec. 906.1)

## FIXTURE COUNT:

Minimum number of required plumbing fixture (Table 403.1) :

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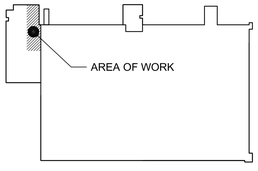


NORTH

## KEY PLAN

N.T.S.

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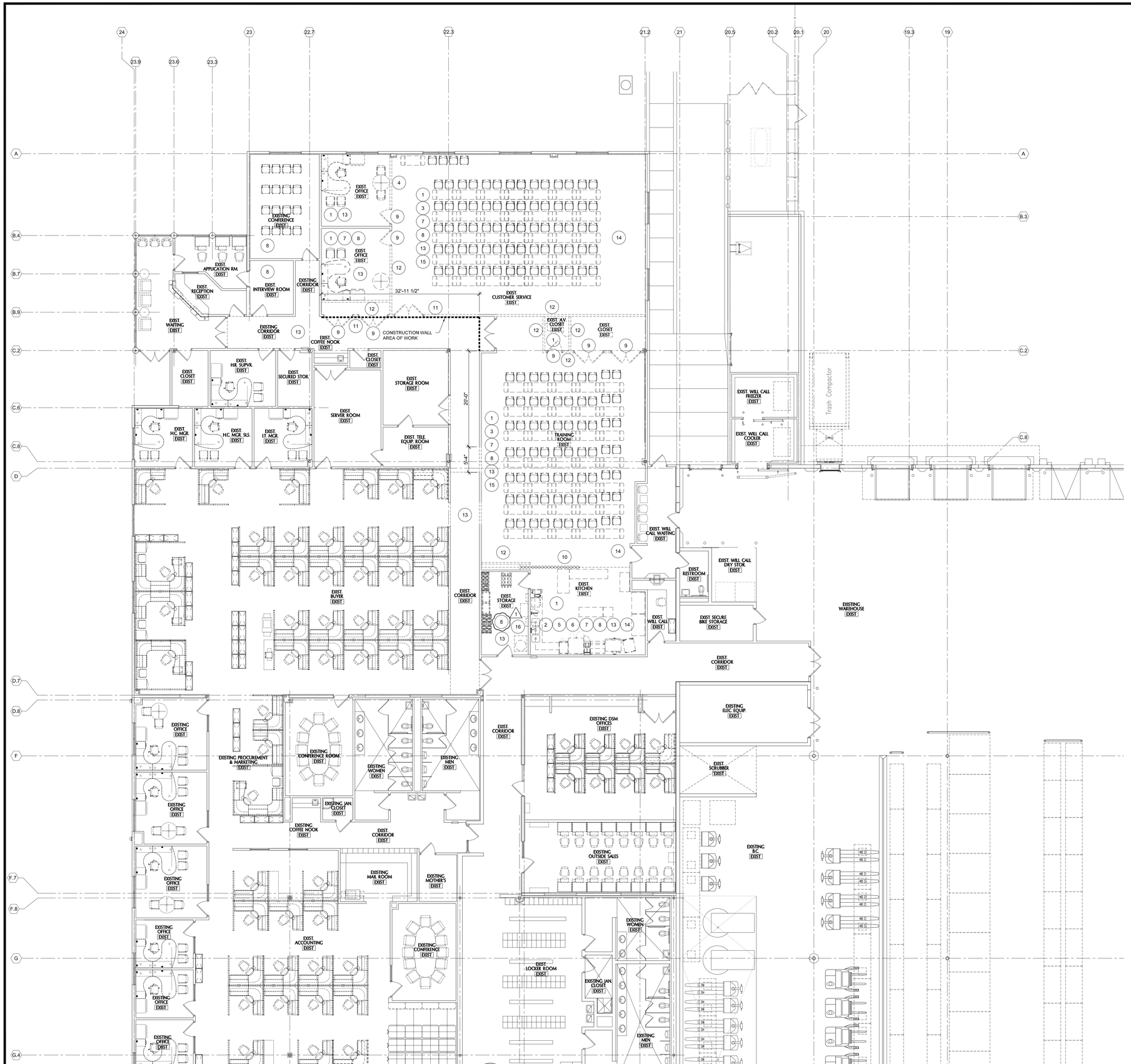
| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
OVERALL FLOOR PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A100

ARCHITECTURAL




NORTH

## EXISTING/DEMO PLAN

1/8" = 1'-0"

## GENERAL DEMOLITION NOTES TO TO ALL SUB-CONTRACTORS:

ALL SUBCONTRACTORS ARE RESPONSIBLE FOR DEMOLITION WORK THAT PERTAINS TO THEIR FIELD OF WORK.

IT SHALL BE NOTED THAT THIS PROJECT WILL BE COMPLETED IN STAGES AND DEMOLITION WILL NOT BE CONTINUOUS FROM START TO FINISH.

GENERAL DEMOLITION SUBCONTRACTOR:
DEMOLITION OF INTERIOR AND EXTERIOR BUILDING WALLS AND STRUCTURAL SUPPORT, INTERIOR DOORS AND WINDOWS, INTERIOR SUSPENDED CEILINGS, CUTTING OF NEW OPENINGS IN EXISTING INTERIOR WALLS, AND CONCRETE FLOOR CUTTING / REMOVAL. HAUL ALL DEMO MATERIAL OFFSITE UNLESS REUSED OR OWNERS USE..

ELECTRICAL SUBCONTRACTOR:
DISCONNECTION / REMOVAL OF POWER AND CONTROL POWER WIRING TO LIGHTS AND OUTLETS, AND POWER DISCONNECT PANELS THAT ARE TO BE REMOVED. ALSO DISCONNECTION / REMOVAL OF ALL ALARM AND SECURITY EQUIPMENT IN ALL AREAS OF DEMOLITION - TURN OVER THIS EQUIPMENT TO OWNER. ALSO RESPONSIBLE FOR REMOVAL OF EXIT LIGHTING AT DOORS THAT ARE DEMO'D. / REMOVED.

MECHANICAL SUBCONTRACTOR:
DISCONNECTION / REMOVAL OF ALL SUPPLY AND RETURN REGISTERS, GRILLES, AND DUCTWORK IN ALL AREAS OF DEMOLITION. ALSO REMOVAL OF THERMOSTATS / WIRING FOR CONTROL OF TEMPERATURE.

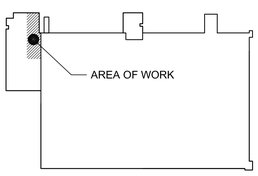
PLUMBING SUBCONTRACTOR:
DISCONNECTION / REMOVAL OF ALL SINKS / FAUCETS, WATER CLOSETS, WATER SUPPLY LINES, AND SANITARY LINES. ALL SALVAGEABLE EQUIPMENT TO BE TURNED OVER TO OWNER.

FIRE PROTECTION SUBCONTRACTOR:
DISCONNECTION / REMOVAL OF ALL FIRE PROTECTION EQUIPMENT IN AREAS OF DEMOLITION INCLUDING HEADS, SUPPLY PIPING / SUPPORTS. SUPPLY LINES TO AREAS OF DEMOLITION ARE TO BE CAPPED AND SYSTEM RESTORED TO ACTIVE STATUS AS SOON AS POSSIBLE.

## DEMOLITION NOTES:

1. REMOVE ALL EXISTING EQUIPMENT, OFFICE FURNITURE, TABLES, CHAIRS, AND SHELVES AND GIVE BACK TO US FOODS TO RELOCATE OR STORE.
2. DEMO EXISTING UPPER CABINETS, BASE COUNTERS, OR OTHER BUILT IN MILLWORK.
3. REMOVE ART WORK (PICTURES) ON WALLS AND RELOCATE AFTER NEW WORK IS COMPLETE PER USF.
4. DEMO WALL TO ACCOMMODATE FOR NEW WINDOW SYSTEM.
5. TURN OFF ALL PLUMBING AND MECHANICAL CONNECTIONS PRIOR TO REMOVAL OF ALL EXISTING KITCHEN EQUIPMENT. DEMO ALL CONNECTIONS TO ABOVE FINISHED FLOOR AND PLUG PLUMBING DRAINS AND CAP ALL MECH. (IE: GAS).
6. DEMO EXISTING COOKING HOOD.
7. DEMO EXISTING WALL FINISHES (COVERINGS) SO AS TO BE ABLE TO APPLY NEW FINISHES. WALLS TO BE PAINTED SHALL BE TAKEN TO GYPSUM AND THEN PRIMED FOR PAINTING. CERAMIC TILE WALLS REMOVE TO STUDS FOR NEW SHEET ROCK.
8. DEMO SUSPENDED CEILING GRID AND TILES INCLUDING LIGHT FIXTURES AND ALL SUPPORT STRUCTURES FOR THE SYSTEMS.
9. REMOVE EXISTING DOOR AND FRAMES. STORE FOR FUTURE USE.
10. DEMO ACCORDION WALL AND TRACK
11. DEMO WALL FOR NEW OPENING FROM FLOOR TO 1" BELOW CEILING.
12. DEMO WALL ENTIRELY FROM FLOOR TO ABOVE CEILING OR ROOF DECK.
13. DEMO EXISTING FLOORING MATERIAL. REMOVE ADHESIVE MATERIAL FOR FLOORING TO ALLOW FLOOR TO ACCEPT NEW FLOORING MATERIAL.
14. DEMO CONCRETE FLOOR FOR NEW UNDERGROUND PLUMBING. SEE PLUMBING PLANS.
15. DEMO CONCRETE FLOOR FOR NEW FLOOR OUTLETS. SEE ELECTRICAL PLANS.
16. REMOVE EXISTING GREASE TRAP.

NOTES:
THIS PLAN DOES NOT INCLUDE ALL ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION OR OTHER DEMOLITION ITEMS OF THE RENOVATED AREAS WHICH MAY NEED TO BE ADDRESSED. CONTRACTORS MUST FIELD VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK AND BRING ANY UNFORESEEN ISSUES TO THE ATTENTION OF THE G.C./ ARCHITECT.




NORTH

## KEY PLAN

N.T.S.

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| 1 | 2-17-20 | – ADDENDUM #1 |
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| DATE | JOB NO. |
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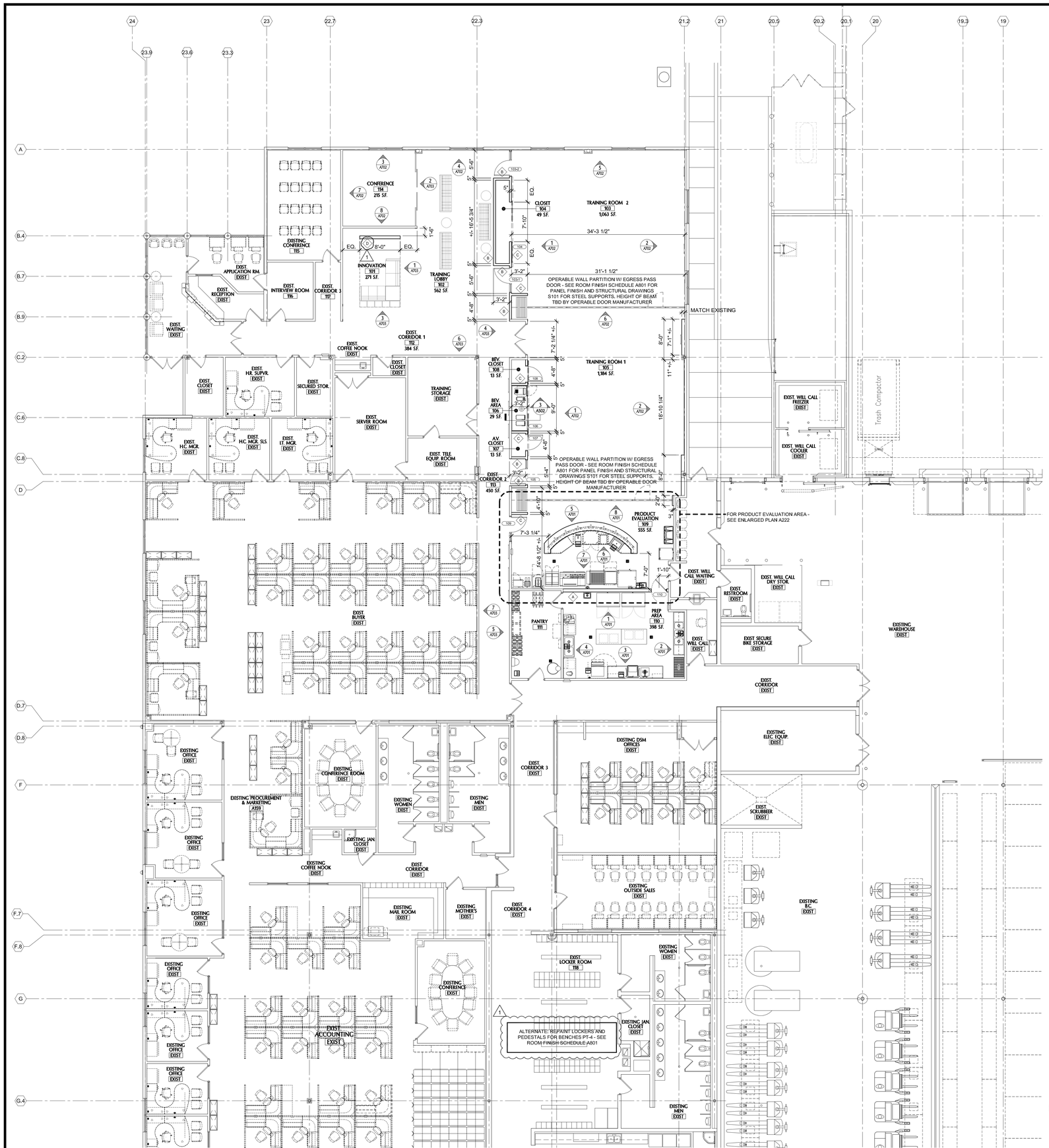
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CH'KD By: TPG |

SHEET TITLE
EXISTING/DEMO PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
A101

ARCHITECTURAL




NORTH

## ENLARGED FLOOR PLAN

1/8" = 1'-0"

## SYMBOLS LEGEND

- NEW GYPSUM WALL BOARD W/ METAL STUDS
- X — WALL TYPE-SEE SCHEDULES A801
- XXX — DOOR DESIGNATION -SEE SCHEDULE A801
- FEC — FIRE EXTINGUISHER CABINET - SEE DETAIL 16/A501

## GENERAL NOTES

1. ALTERNATE FOR PAINTING LOCKERS TO BE PRICED SEPARATELY (SEE BOXED NOTE).
2. FOR CEILING AND FLOOR LAYOUT SEE SHEET A221.
3. FOR ALL TYP. WALL DETAILS SEE DETAILS 5/A501 - 14/A501.
4. FOR ALL EQUIPMENT AND FURNITURE LAYOUT SEE SHEET A901.
5. SEE MECHANICAL FOR ALL ROOF WORK - SEE DETAILS 1/A503 TO 3/A503.
6. FOR ALL UNDERGROUND PLUMBING SEE SHEET P201.

## FIRE PROTECTION SCOPE

1.) FIRE PROTECTION SCOPE IS TO INCLUDE ALL AREA'S OF WORK DELINEATED ON SHEET A001. SCOPE SHALL NOT BE LIMITED TO THE AREA OF WORK SOLELY IF ADDITIONAL WORK IS REQUIRED ELSEWHERE FOR A COMPLETE AND OPERATIONAL SYSTEM AT COMPLETION OF PROJECT.

2.) VERIFY EXISTING SPRINKLER LOCATIONS AND PIPING RUNS FOR ANY THAT CAN BE REUSED/DEMOED AND LOCATE WHERE NEW CONNECTIONS ARE TO BE MADE AND DROPS ADDED.

3.) THOSE PROVIDING FIRE PROTECTION TO HAVE EACH SYSTEM HYDRAULICALLY DESIGNED, INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 13 STANDARDS, OWNER'S INSURANCE COMPANY, AND LOCAL JURISDICTIONS (CITY, COUNTY, AND STATE CODES).

4.) FIRE PROTECTION DRAWINGS, HYDRAULIC CALCULATIONS AND MATERIAL DATA SHEETS SHALL BE SUBMITTED IN A COMPLETE PACKAGE TO ESI DESIGN SERVICES, INC., OWNER'S INSURANCE PROVIDER, AND LOCAL BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. PARTIAL SUBMITTALS WILL NOT BE ACCEPTABLE.

5.) ALL FIRE PROTECTION SYSTEMS SHALL HAVE LOCAL ALARMS AND SHALL BE EQUIPPED WITH SIGNALING DEVICE(S). ALL SIGNALING DEVICE(S) SHALL BE WIRED TO AND MONITORED AT THE CENTRAL BUILDING ALARM AND LOCAL STATIONS.

6.) IMMEDIATELY AFTER SPRINKLER HEADS ARE INSTALLED, HEADS SHALL BE COVERED WITH PLASTIC BAGS WHICH SHALL BE REMOVED AFTER PAINTING OR AFTER COMPLETION OF WORK & SHALL PRESENT A CLEAN, FINISHED APPEARANCE. THE INTERIOR SPRINKLER SYSTEM SHALL BE FLUSHED CLEAN BEFORE PLACING SYSTEM INTO SERVICE.

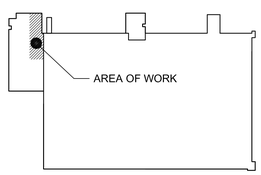
7.) THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO INSTALL THE FIRE PROTECTION SYSTEMS. THE COMPLETED WORK SHALL PRESENT A CLEAN, FINISHED APPEARANCE. THE INTERIOR SPRINKLER SYSTEM SHALL BE FLUSHED CLEAN BEFORE PLACING SYSTEM INTO SERVICE.

8.) UPON COMPLETION OF THE WORK FIRE PROTECTION CONTRACTOR SHALL PROVIDE FOUR SETS OF MANUALS CONTAINING COMPLETE MAINTENANCE INSTRUCTIONS FOR EACH SPRINKLER SYSTEM. CONTRACTOR WILL HOLD TRAINING CLASS TO THE OWNER 2 WEEKS BEFORE FACILITY IS OPERATIONAL. PROVIDE 4 COPIES IN A FLEXIBLE OIL RESISTANT, PROTECTIVE BINDER TO THE OWNER. FOLLOW OWNER'S INSURANCE COMPANY GUIDELINES FOR FINAL DOCUMENTATION REQUIREMENTS.

9.) ALL BRANCH LINE SUPPORT HANGERS AND RODS SHALL BE EXTENDED FROM STEEL JOISTS, GIRDERS OR BEAMS. FASTENING TO METAL ROOF DECK WILL NOT BE ALLOWED.

10.) ANSUL SYSTEM IS TO BE CONNECTED TO GAS SHUT-OFF AND ALARM SYSTEM.

11.) SPRINKLER HEAD LOCATIONS AND PIPING INSTALLATION SHALL BE COORDINATED WITH FINAL ELECTRICAL, MECHANICAL, AND STRUCTURAL DRAWINGS AND EQUIPMENT INSTALLATIONS.




NORTH

## KEY PLAN

N.T.S.

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| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPC |

SHEET TITLE

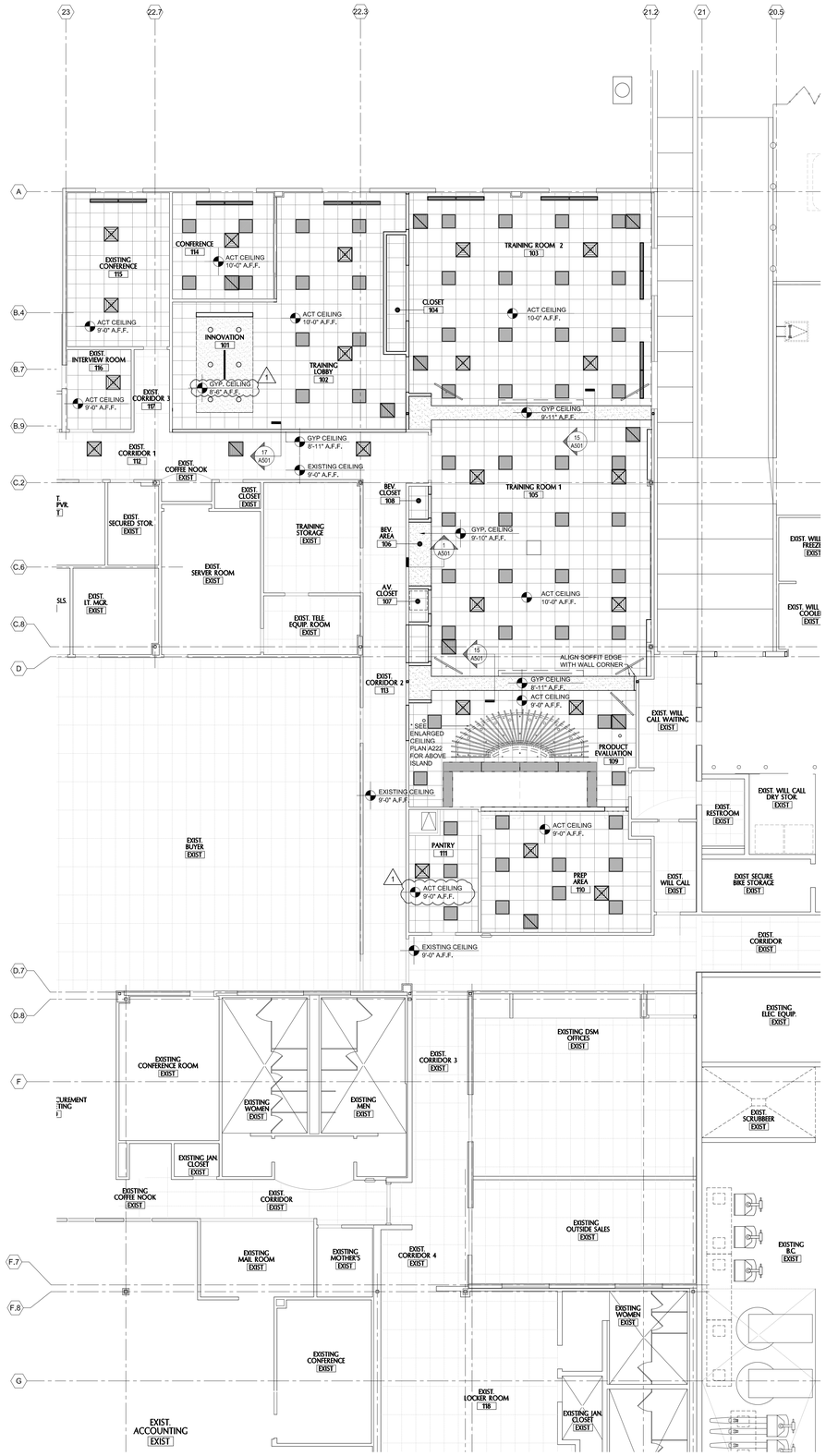
ENLARGED FLOOR PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER

A201

ARCHITECTURAL

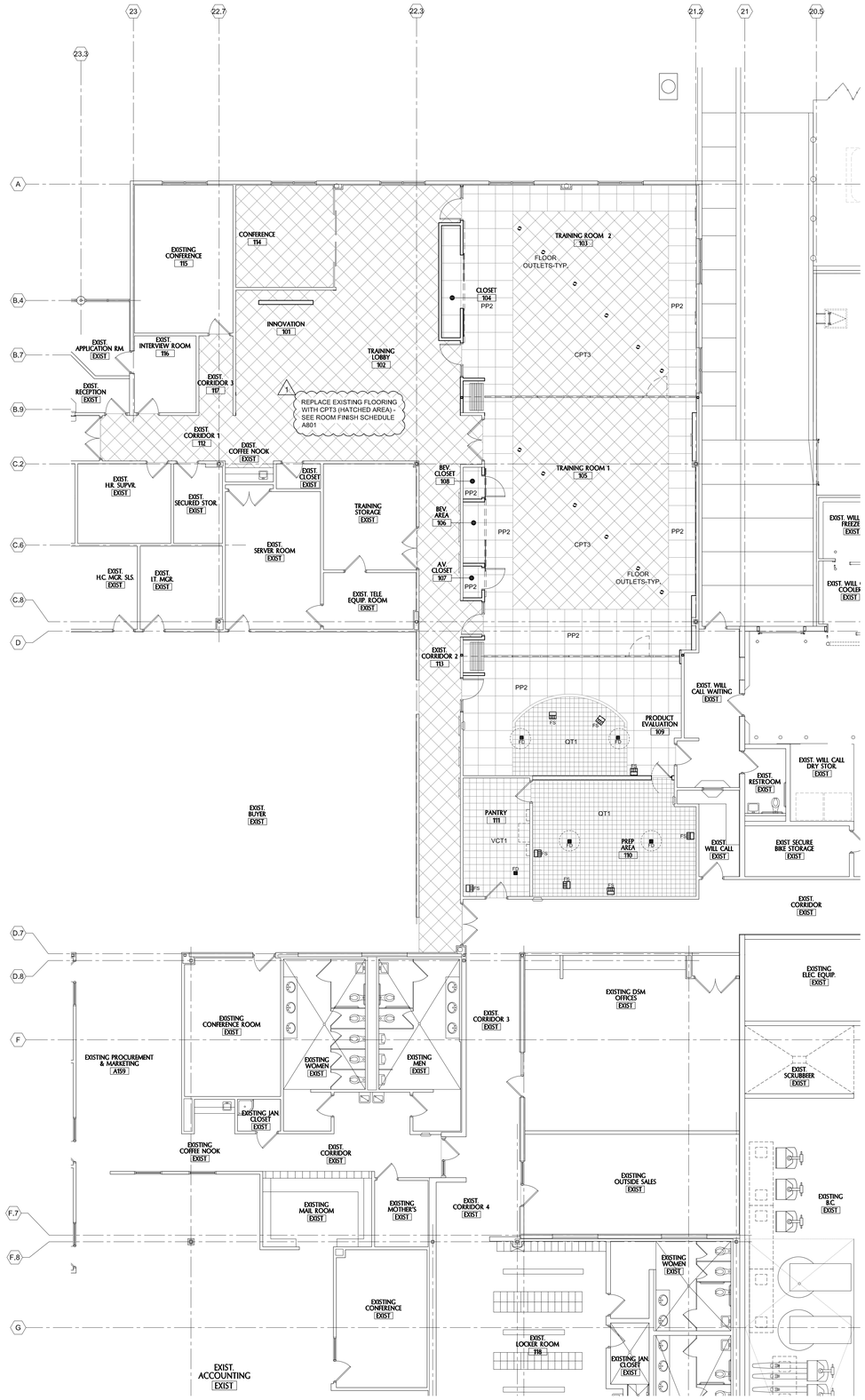



NORTH

## REFLECTED CEILING PLAN

1/8" = 1'-0"

NOTE: CONTRACTOR TO FIELD VERIFY THAT THE EXISTING CEILING CAN BE RAISED FROM 9'-0" TO 10'-0" IN THE FOLLOWING ROOMS: 101, 102, 103, 104 AND 114.




NORTH

## FLOOR FINISH PLAN

1/8" = 1'-0"

## CEILING LEGEND

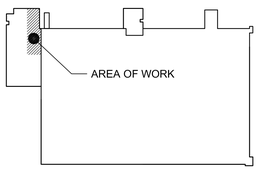
- 2' X 2' FLUORESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- RECESSED DOWNLIGHT FIXTURE
- EXISTING LIGHT FIXTURES
- EXISTING LIGHT FIXTURES
- EXISTING LIGHT FIXTURES
- SUPPLY AIR DIFFUSER
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST GRILLE
- EXISTING MECHANICAL (SUPPLY/RETURN)
- EXIT LIGHT - CEILING MOUNTED
- OR CEILING GRID
- EXISTING CEILING GRID
- DRYWALL (EXIST. SHOWN AS BLANK)
- SPRINKLER HEAD

*SEE ROOM FINISH SCHEDULE A801 FOR LOCATION, AND TYPE OF CEILINGS. HEIGHT IS ON A801 UNLESS NOTED OTHERWISE ON PLANS

## GENERAL NOTES

1.) LIGHTS, SUPPLY, EXHAUST AND ANY OTHER M.E.P. ITEMS ARE LAYED OUT FOR COORDINATION. SEE MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE FOR FURTHER INFORMATION.

2.) REFER TO MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.




NORTH

## KEY PLAN

N.T.S.

ESI ARCHITECTURAL & ENGINEERING SERVICES INC.
SMART BUILDING SOLUTIONS
950 Walnut Ridge Drive | Hartland, WI 53029 | 262.369.3535 T | 262.369.3592 F
Arch. Bus. Lic. Nbr. AA2000159 Eng. Bus. Lic. Nbr. 28045

US FOODS®

# KITCHEN RENOVATION FOR US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS

| | | |
|---|---|---|
| 1 | 2-17-20 | – ADDENDUM #1 |
| | – | |
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| | – | |

| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE

REFLECTED CEILING / FLOOR FINISH PLANS

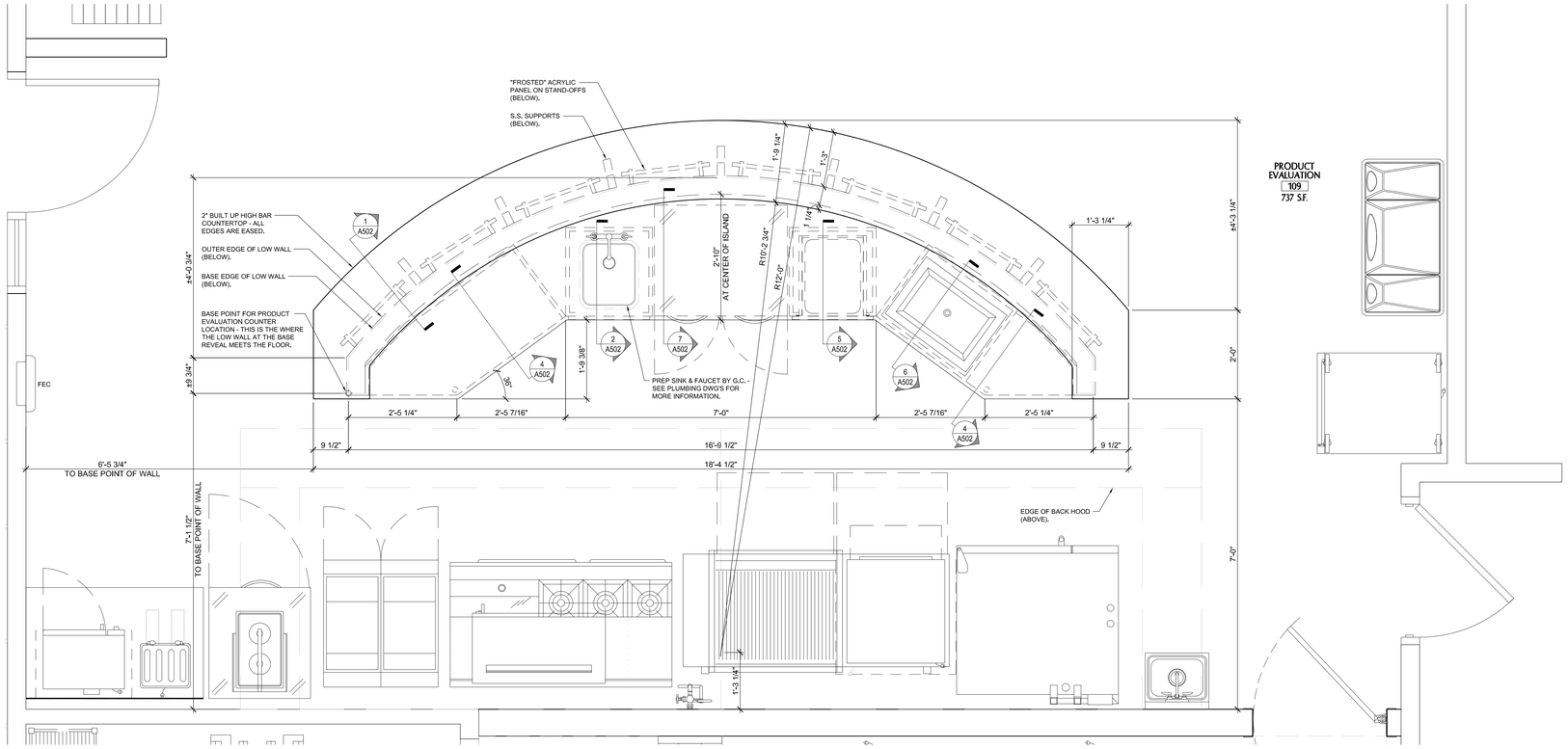
PRELIMINARY DWGS.

FINAL CONST. DWGS.

SHEET NUMBER

A221

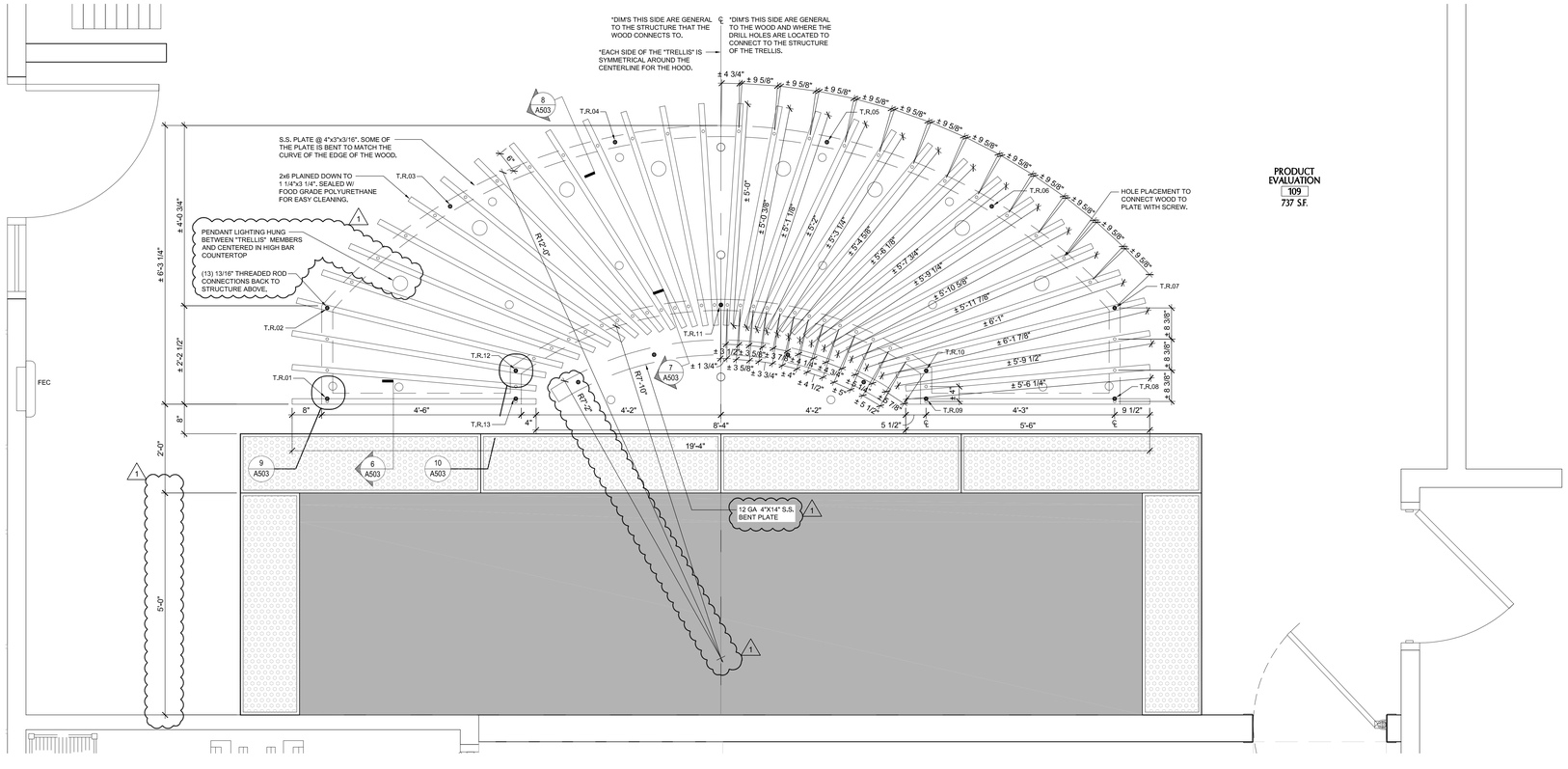
ARCHITECTURAL



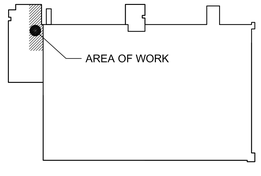

1 A222 ENLARGED COUNTER PLAN OF PRODUCT EVAL.
3/4" = 1'-0"

## GENERAL NOTES

1. FOR CEILING AND FLOOR LAYOUT SEE SHEET A221.
2. FOR EQUIPMENT PLAN SEE SHEET A901.
3. FOR INTERIOR ELEVATIONS SEE SHEET A701-A703.
4. FOR ALL UNDERGROUND PLUMBING SEE PLUMBING DRAWINGS.
5. REFER TO MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
6. REFER TO DETAILS ON A501 AND A502 FOR TYPICAL DRYWALL FRAMING AND ASSEMBLY DETAILS.
7. PROVIDE TRELLIS BRACING TO AVOID LATERAL MOVEMENT.




2 A222 ENLARGED TRELLIS PLAN OF PRODUCT EVAL.
3/4" = 1'-0"




NORTH

KEY PLAN
N.T.S.

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REVISIONS

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|---|---|
| 1 | 2-17-20 – ADDENDUM #1 |
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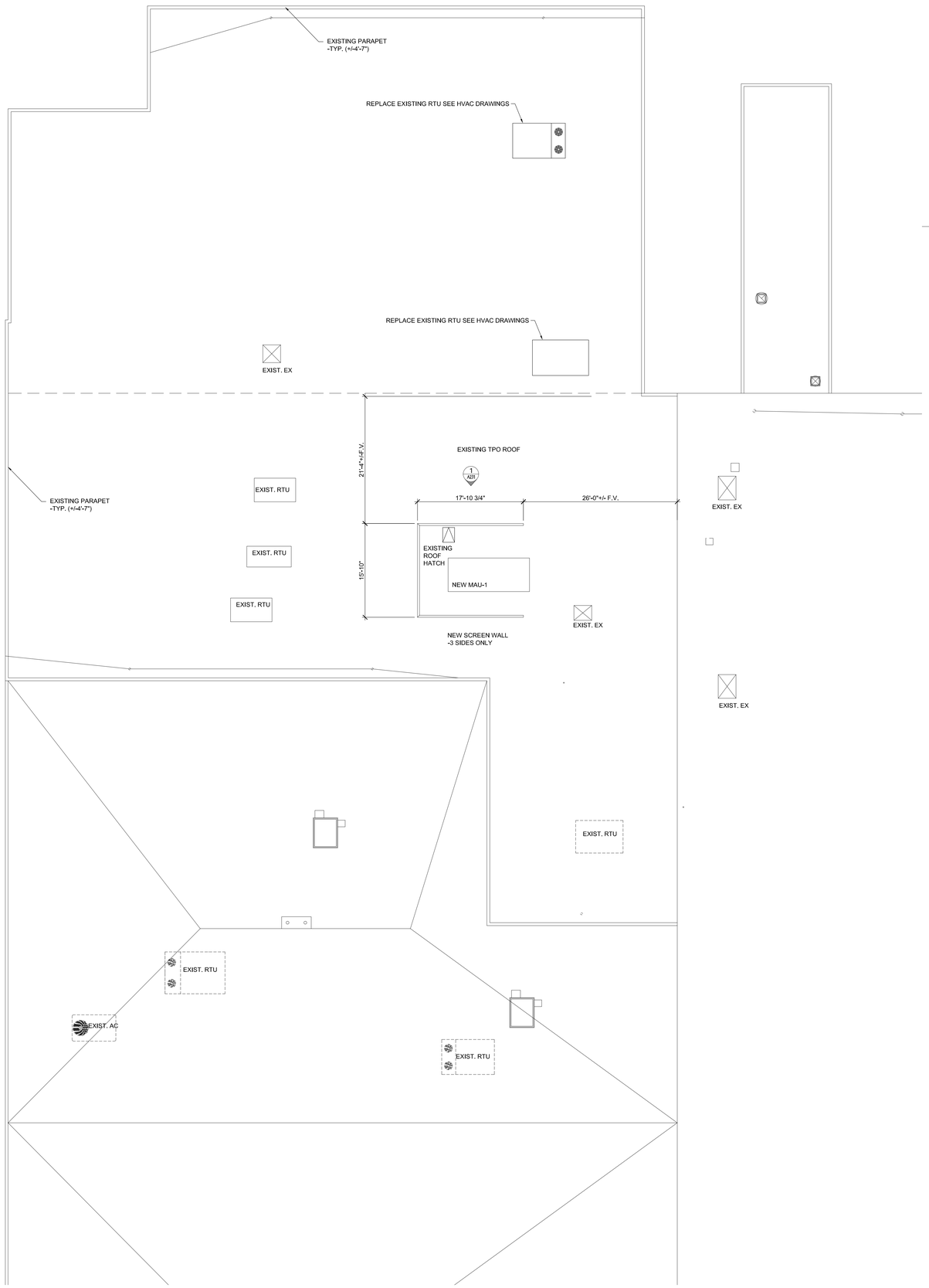
| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
ENLARGED PLANS FOR PRODUCT EVALUATION AREA & DETAILS

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

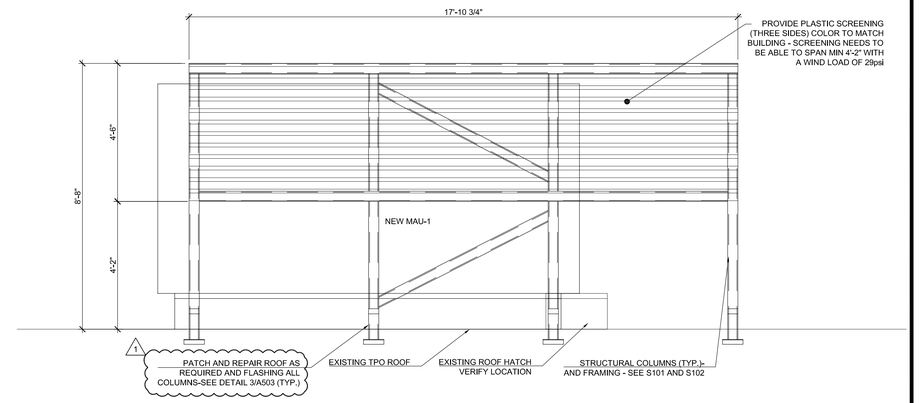
SHEET NUMBER
A222

ARCHITECTURAL




NORTH

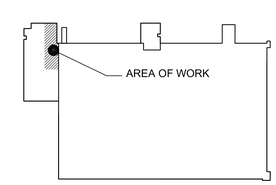
## PARTIAL FLOOR PLAN
1/8" = 1'-0"




## 1 / A231 INTERIOR ELEVATION
1/2" = 1'-0"

### GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS PRIOR TO COMMENCEMENT OF WORK.




NORTH

## KEY PLAN
N.T.S.

ESI
ARCHITECTURAL & ASSOCIATED SERVICES INC.
SMART BUILDING SOLUTIONS
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Eng. Bus. Lic. Nbr. 28045
950 Walnut Ridge Drive | Hartland, WI 53029 | 262.369.3535 T | 262.369.3592 F

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KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS

| | | |
|---|---|---|
| 1 | 2-17-20 | - ADDENDUM #1 |
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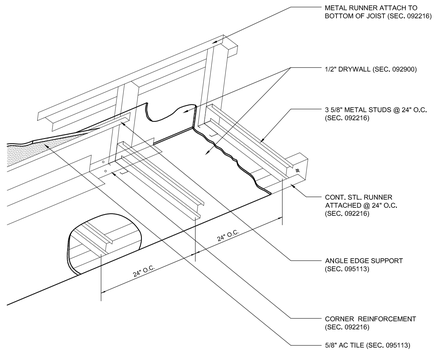
| DATE: | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPC |

SHEET TITLE
PARTIAL ROOF PLAN

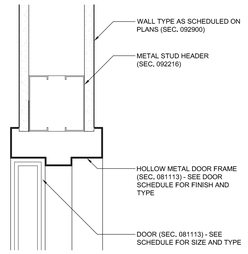
PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A231

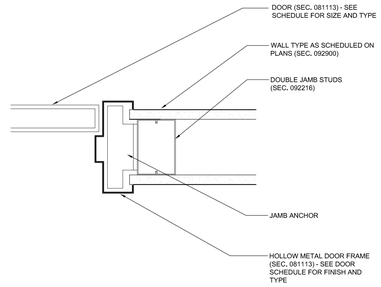
ARCHITECTURAL



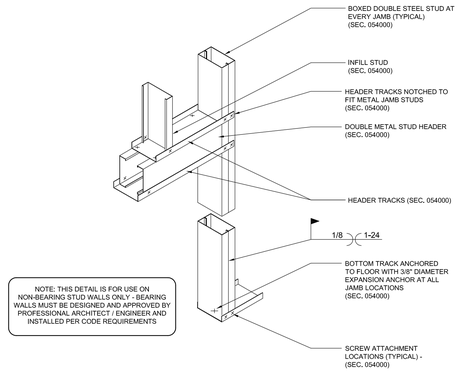

1 A501 TYPICAL BUILT-IN DRYWALL BULKHEAD
N.T.S.



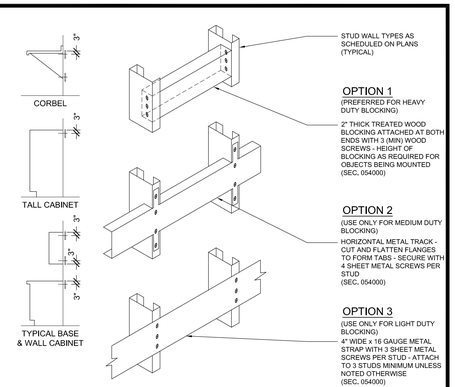

2 A501 H.M. DOOR HEAD DTL @ G.W.B.
3" = 1'-0"



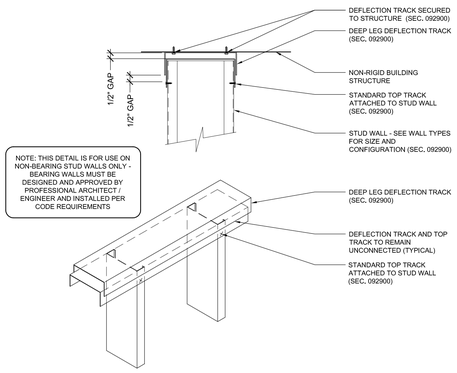

3 A501 H.M. DOOR JAMB DTL @ G.W.B.
3" = 1'-0"



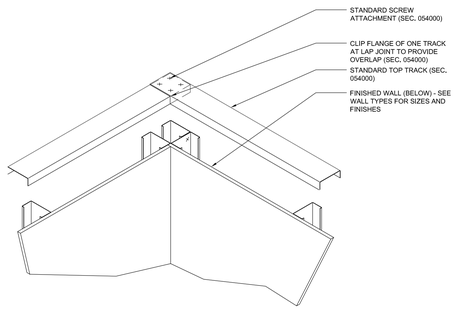

4 A501 TYPICAL FRAMING AT DOORS
N.T.S.



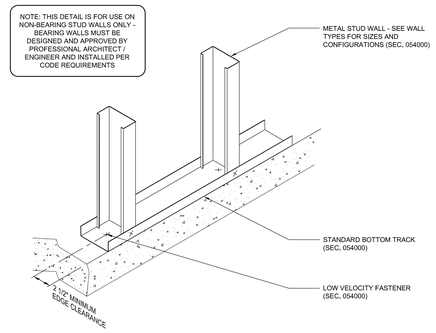

5 A501 TYPICAL EQUIPMENT BLOCKING
N.T.S.



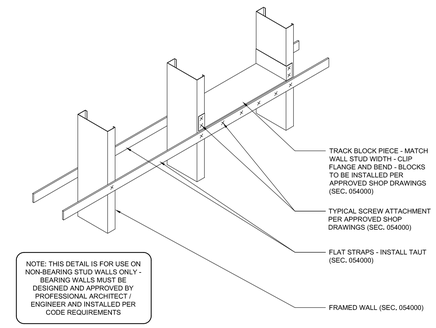

6 A501 TYPICAL DEFLECTION TRACK DETAIL
N.T.S.



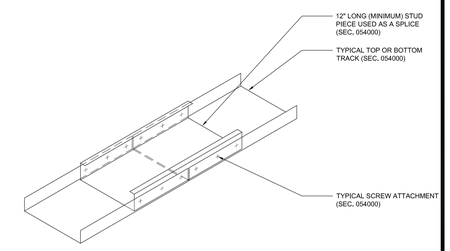

7 A501 TYPICAL TOP TRACK CORNER DETAIL
N.T.S.



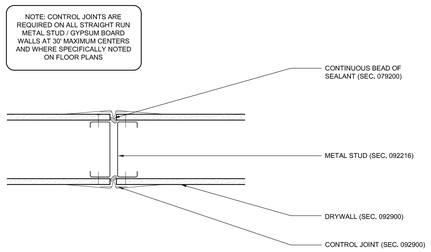

8 A501 TYPICAL BOTTOM TRACK ANCHORAGE
N.T.S.



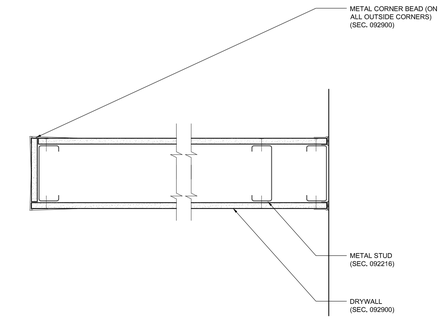

9 A501 TYPICAL BRIDGING - DOUBLE FLAT STRAP
N.T.S.



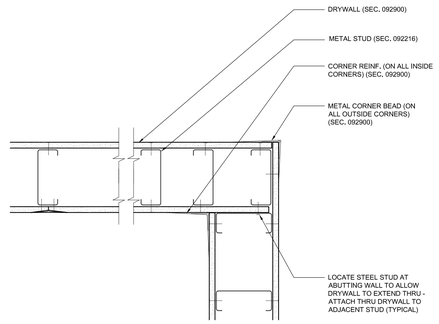

10 A501 TYPICAL TRACK SPLICE CONNECTION
N.T.S.



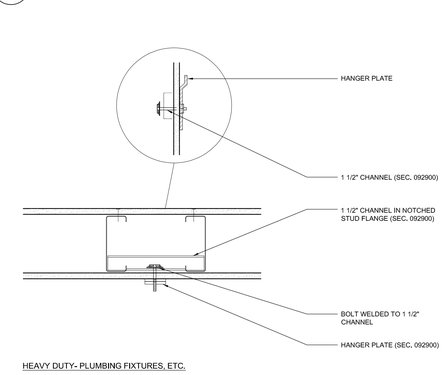

11 A501 TYPICAL DRYWALL CONTROL JOINT
N.T.S.



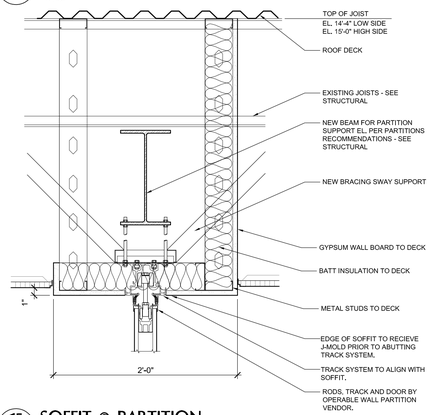

12 A501 TYPICAL DRYWALL ENDS
N.T.S.



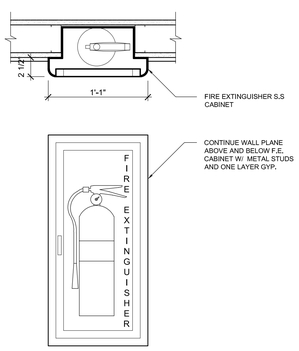

13 A501 TYPICAL DRYWALL CORNERS
N.T.S.



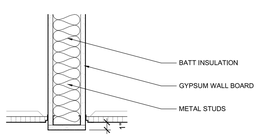

14 A501 DRYWALL REINFORCEMENT - HEAVY DUTY
N.T.S.



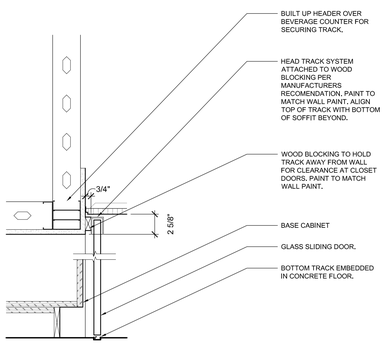

15 A501 SOFFIT @ PARTITION
1 1/2" = 1'-0"



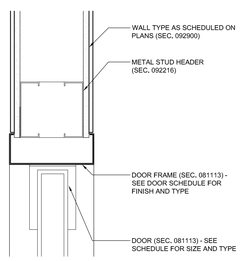

16 A501 FIRE EXTINGUISHER AND RECESSED CABINET
N.T.S.



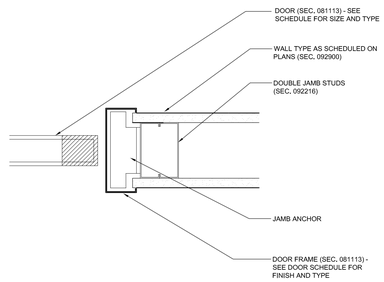

17 A501 DRY WALL SOFFIT
1 1/2" = 1'-0"




18 A501 BARN DOOR TRACK CONDITIONS
1 1/2" = 1'-0"




19 A501 DOOR HEAD FOR IMPACT DOOR
3" = 1'-0"




20 A501 DOOR JAMB FOR IMPACT DOOR.
3" = 1'-0"

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7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS
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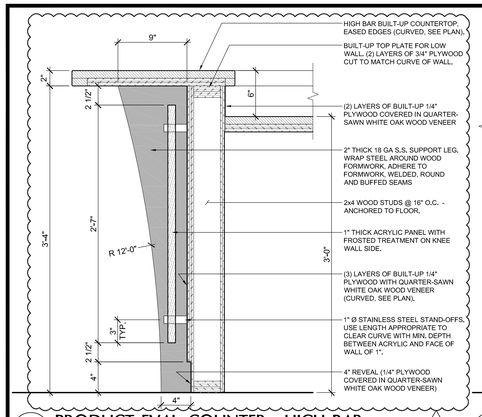
| DATE: 1-6-20 | JOB NO. 50-1414-19 |
|---|---|
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
DETAILS

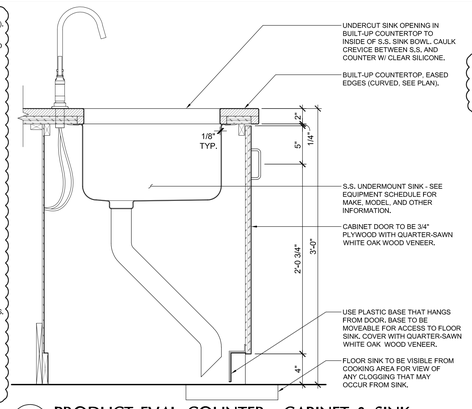
PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A501

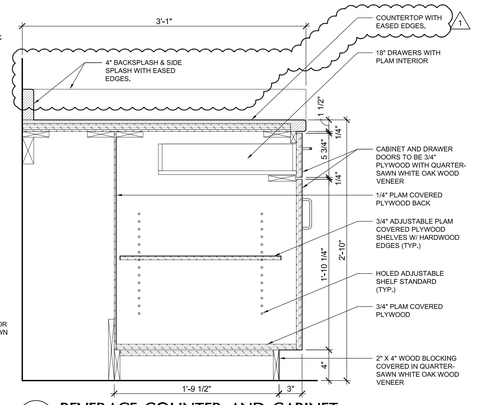
ARCHITECTURAL



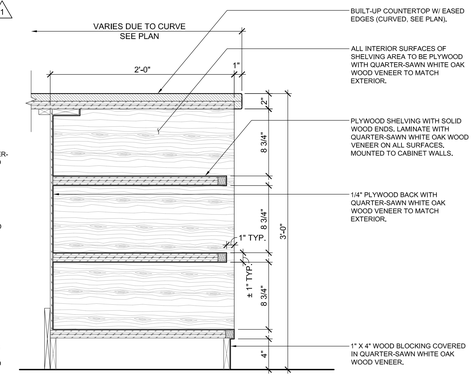

1 A502 PRODUCT EVAL COUNTER - HIGH BAR 1
1 1/2" = 1'-0"



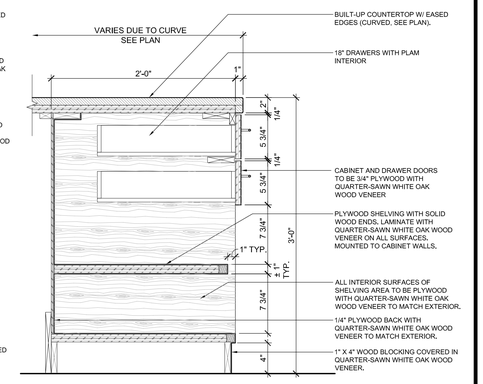

2 A502 PRODUCT EVAL COUNTER - CABINET & SINK
1 1/2" = 1'-0"



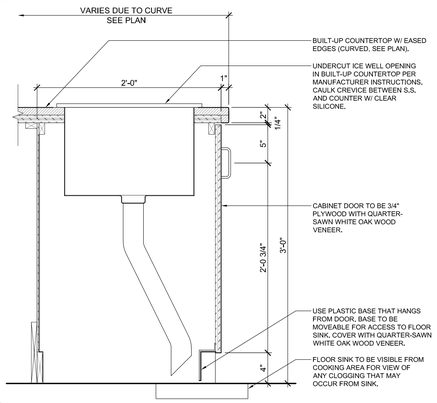

3 A502 BEVERAGE COUNTER AND CABINET
1 1/2" = 1'-0"



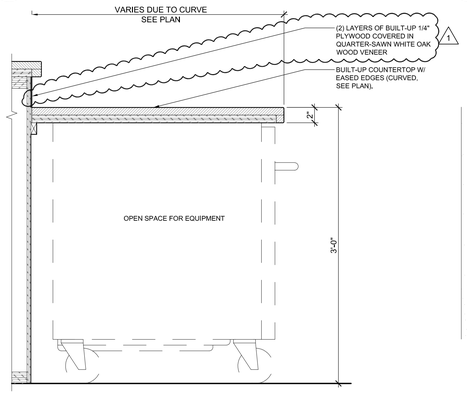

4 A502 PRODUCT EVAL COUNTER - DISH SHELVES
1 1/2" = 1'-0"



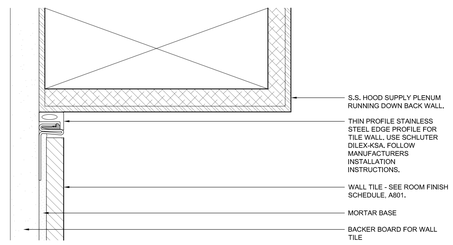

5 A502 PRODUCT EVAL COUNTER - DISH SHELVES
1 1/2" = 1'-0"



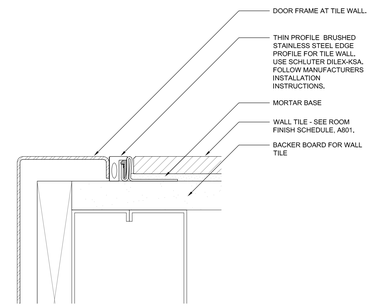

6 A502 PRODUCT EVAL COUNTER - CABINET & ICE WELL
1 1/2" = 1'-0"



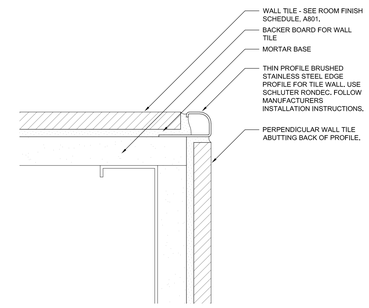

7 A502 PRODUCT EVAL COUNTER - EQUIP. SPACE
1 1/2" = 1'-0"



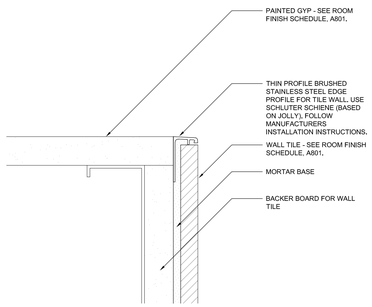

8 A502 VERTICAL TILE ABUTTING - TILE MEETS S.S.
N.T.S.



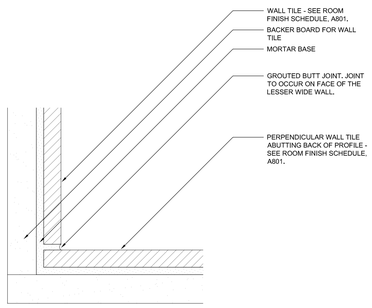

9 A502 VERTICAL / HORIZ. JOINT - TILE @ DOOR FRAME
N.T.S.



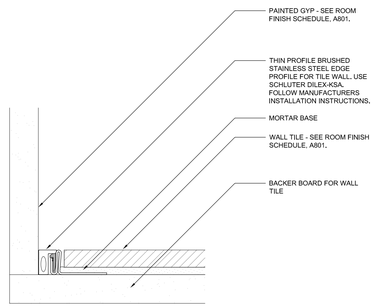

10 A502 OUTSIDE VERTICAL TILE CORNER - ROUNDED
N.T.S.



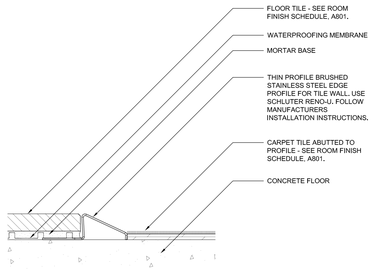

11 A502 OUTSIDE VERTICAL TILE CORNER - TILE MEETS PAINT
N.T.S.



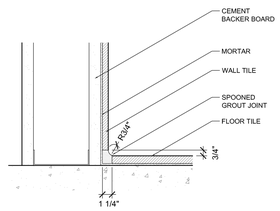

12 A502 INSIDE VERTICAL TILE CORNER - ROUNDED
N.T.S.



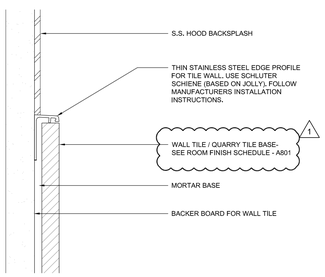

13 A502 INSIDE VERTICAL TILE CORNER - TILE MEETS PAINT
N.T.S.



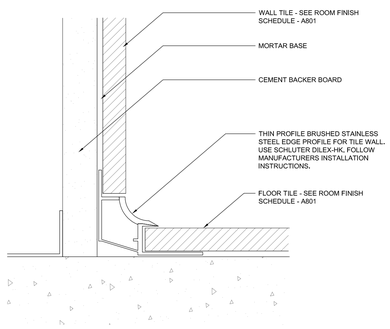

14 A502 PROFILE FOR BORDER @ TILE / CARPET
N.T.S.




15 A502 TYP. COVE GROUT JOINT @ WALL TILE / FLR. TILE
N.T.S.




17 A502 VERTICAL TILE ABUTTING - TILE MEETS S.S. WALL
1 1/2" = 1'-0"




18 A502 TYP. COVE GROUT JOINT @ WALL TILE/FLOOR TILE
1 1/2" = 1'-0"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| 1 | 2-17-20 | – ADDENDUM #1 |
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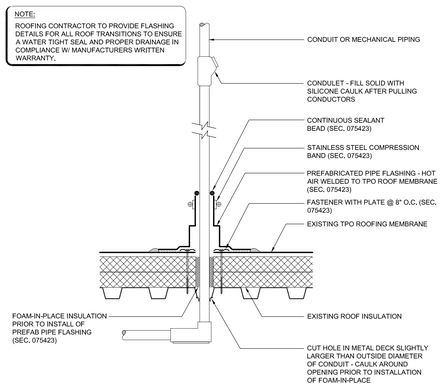
| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
DETAILS

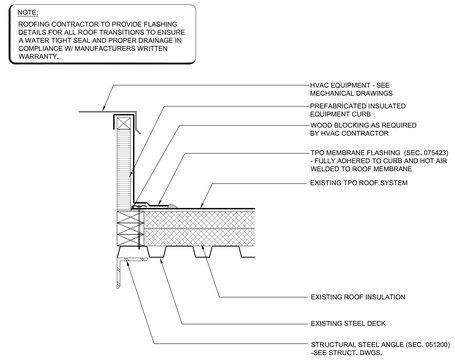
PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
A502

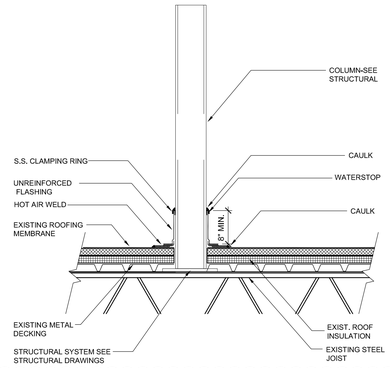
ARCHITECTURAL



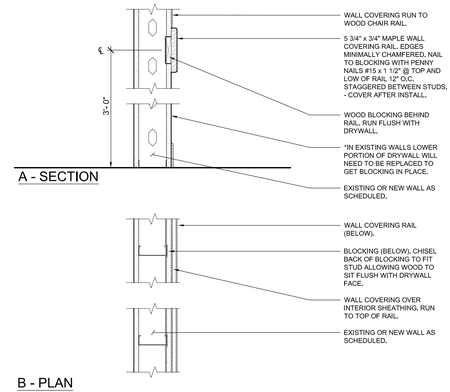

1 A503 TYPICAL CONDUIT PENETRATION THRU ROOF
NOT TO SCALE



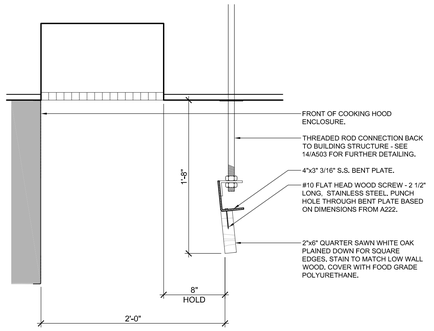

2 A503 TYPICAL HVAC PRE-FAB CURB
NOT TO SCALE



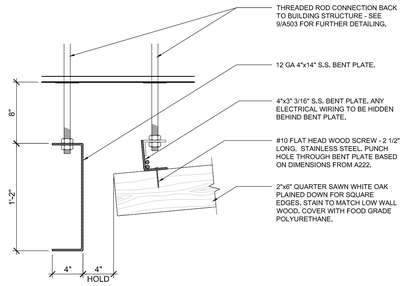

3 A503 TYP. ROOF FLASHING @ COLUMN PENETRATION
NOT TO SCALE - VERIFY WITH ROOFING MFR. RECOMMENDATIONS



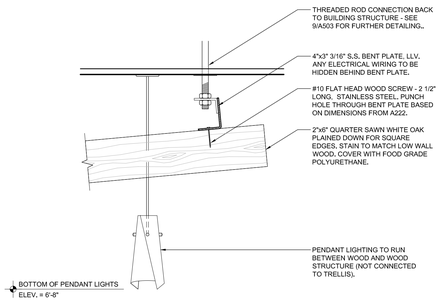

4 A503 MARKER WALL COVERING RAIL DETAIL
1 1/2" = 1'-0"



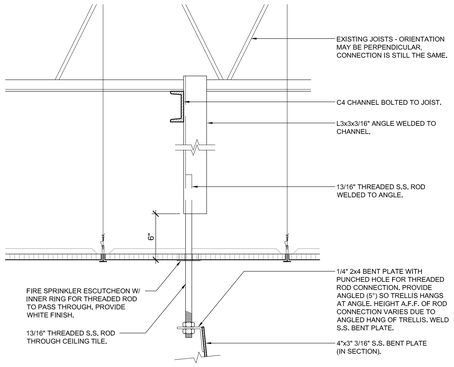

6 A503 "TRELLIS" STRUCT./WOOD CONNECTION @ HOOD
1 1/2"=1'-0"



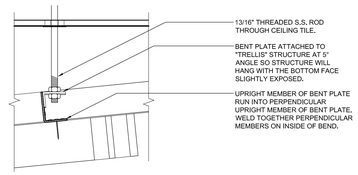

7 A503 "TRELLIS" STRUCT./WOOD CONNECTION
1 1/2"=1'-0"

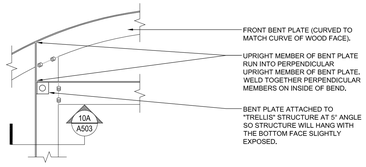



8 A503 "TRELLIS" STRUCT./WOOD CNNCTN. @ OUTER EDGE
1 1/2"=1'-0"

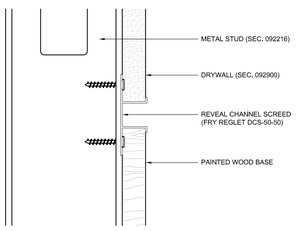



9 A503 "TRELLIS" THREADED ROD CONNECTIONS
1 1/2"=1'-0"




10 A503 "TRELLIS" BENT PLATE CONNECTIONS
1 1/2"=1'-0"




11 A503 TYPICAL DRYWALL REVEAL
N.T.S.

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REVISIONS

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| 1 | 2-17-20 | - ADDENDUM #1 |
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| DATE | JOB NO. |
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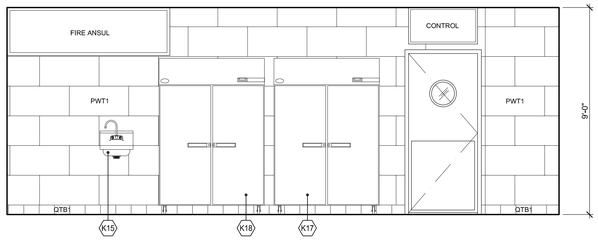
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHKD By: TPG |

SHEET TITLE
DETAILS

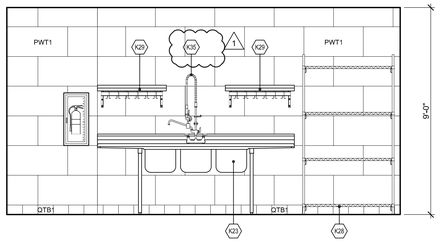
PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A503

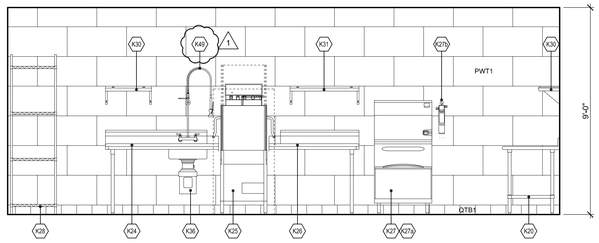
ARCHITECTURAL



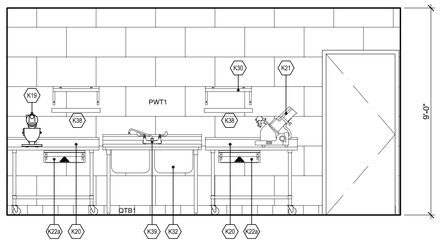

1 A701 INTERIOR ELEVATION
3/8" = 1'-0"



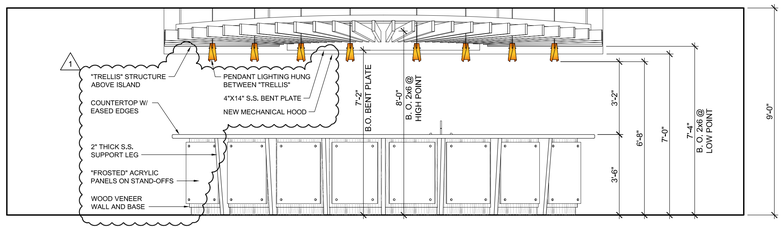

2 A701 INTERIOR ELEVATION
3/8" = 1'-0"



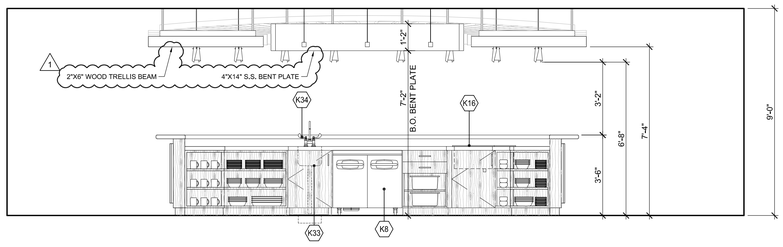

3 A701 INTERIOR ELEVATION
3/8" = 1'-0"



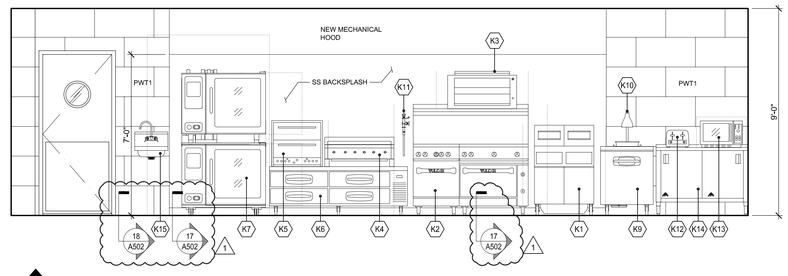

4 A701 INTERIOR ELEVATION
3/8" = 1'-0"



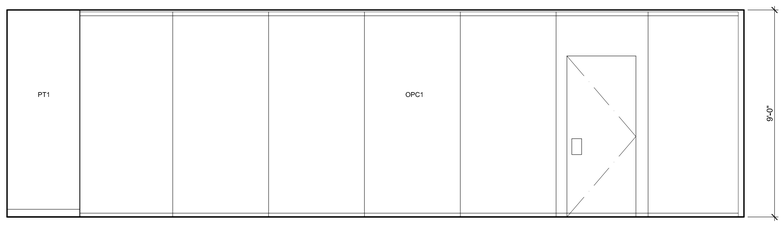

5 A701 INTERIOR ELEVATION
3/8" = 1'-0"



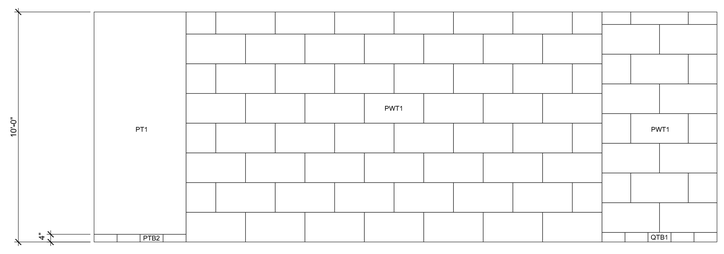

6 A701 INTERIOR ELEVATION
3/8" = 1'-0"




7 A701 INTERIOR ELEVATION
3/8" = 1'-0"




8 A701 INTERIOR ELEVATION
3/8" = 1'-0"




WALL PATTERN

9 A701 STANDARD WALL INT. ELEVATIONS
3/8" = 1'-0"

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| DATE | JOB NO. |
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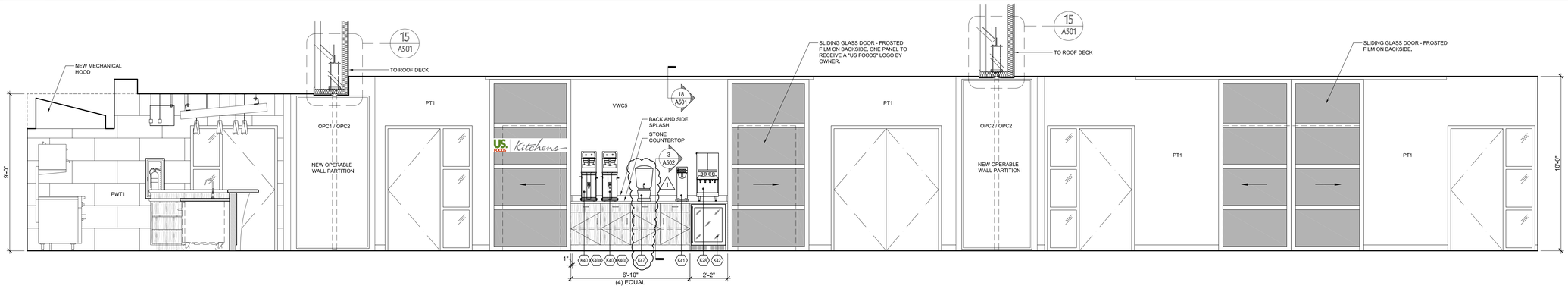
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHKD By: TPG |

SHEET TITLE
INTERIOR ELEVATIONS

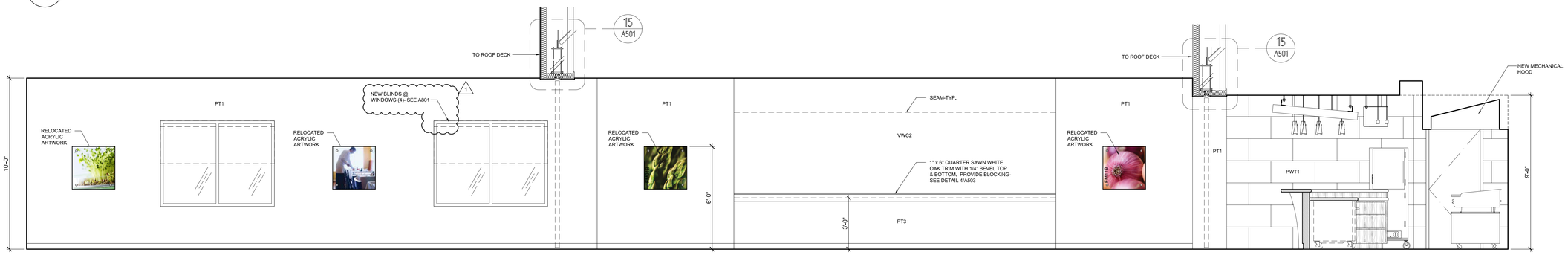
PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A701

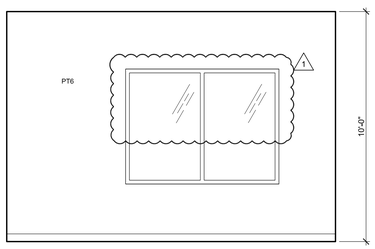
ARCHITECTURAL



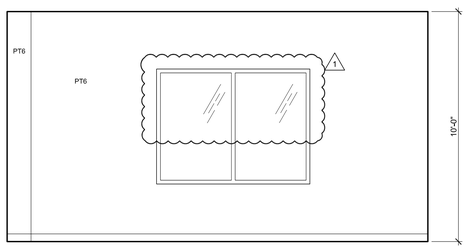

1 A702 INTERIOR ELEVATION
3/8" = 1'-0"




2 A702 INTERIOR ELEVATION
3/8" = 1'-0"




3 A702 INTERIOR ELEVATION
3/8" = 1'-0"




4 A702 INTERIOR ELEVATION
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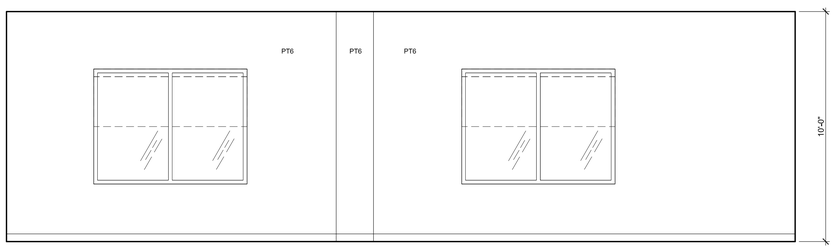


5 A702 INTERIOR ELEVATION
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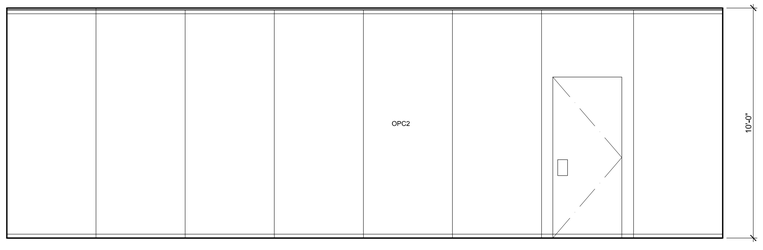


6 A702 INTERIOR ELEVATION
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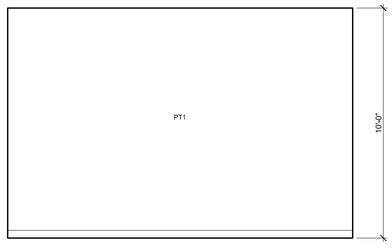


7 A702 INTERIOR ELEVATION
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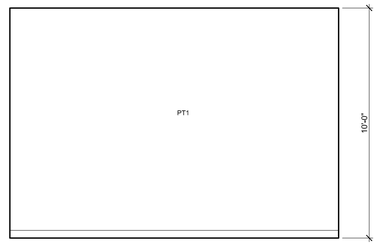


8 A702 INTERIOR ELEVATION
3/8" = 1'-0"

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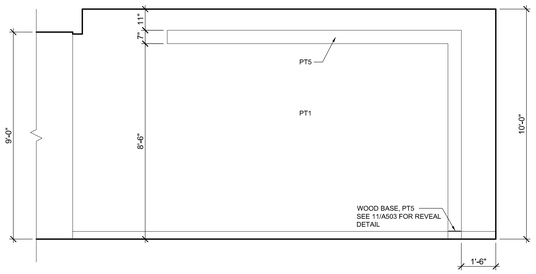
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
INTERIOR ELEVATIONS

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A702

ARCHITECTURAL




1 A703 INTERIOR ELEVATION
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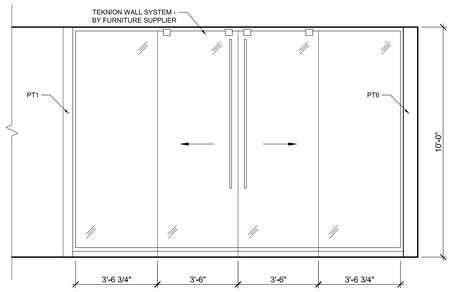


2 A703 INTERIOR ELEVATION
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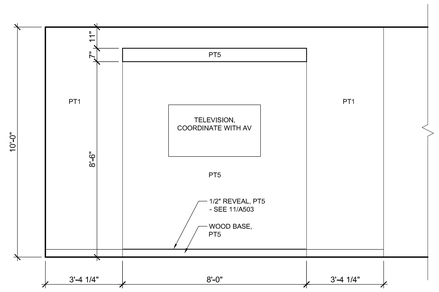


3 A703 INTERIOR ELEVATION
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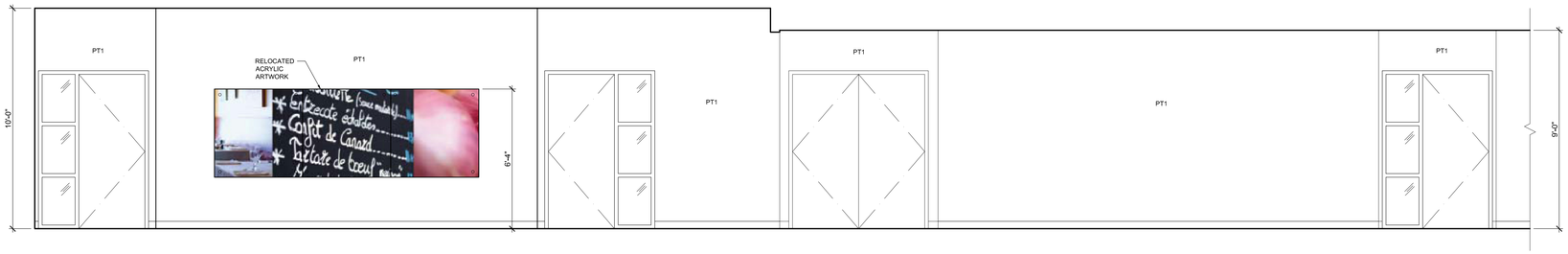
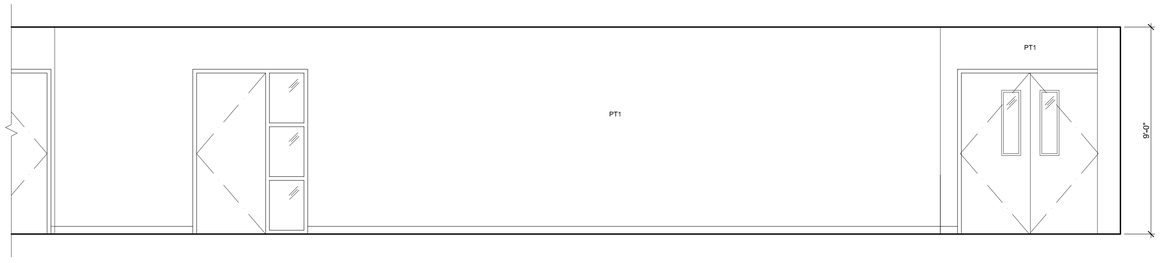
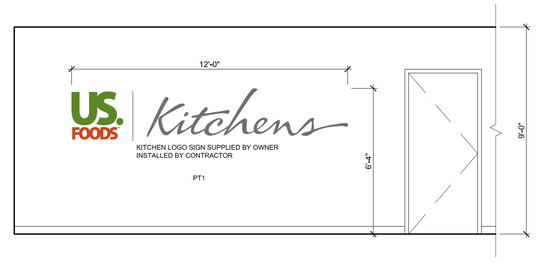


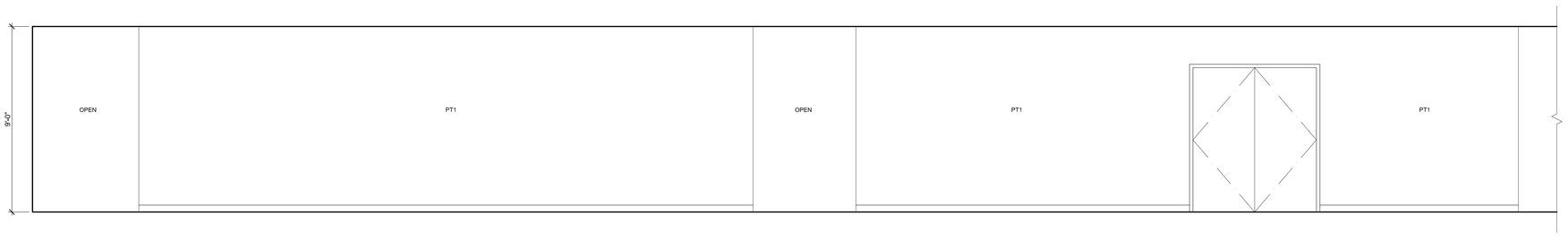

4 A703 INTERIOR ELEVATION
3/8" = 1'-0"




5 A703 INTERIOR ELEVATION
3/8" = 1'-0"




6 A703 INTERIOR ELEVATION
3/8" = 1'-0"




7 A703 INTERIOR ELEVATION
3/8" = 1'-0"

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KITCHEN RENOVATION FOR
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REVISIONS
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| DATE: 1-6-20 | JOB NO. 50-1414-19 |
|---|---|
| DWG By: MAS | CHKD By: TPG |

SHEET TITLE
INTERIOR ELEVATIONS

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A703

ARCHITECTURAL

# ROOM FINISH SCHEDULE

| ROOM NO. | ROOM NAME | FLOOR | BASE MATERIALS | BASE CURB | WALLS NORTH | WALLS EAST | WALLS SOUTH | WALLS WEST | CEILING TYPE | CEILING HEIGHT | ARCH. WOODWORK TRIM | ARCH. WOODWORK BASE/UPPR. | ARCH. WOODWORK COUNTER | WINDOW BLINDS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AREA 'A' | | | | | | | | | | | | | | | |
| 101 | INNOVATION | CPT3 | RB1 | - | PT1/PT5 | - | - | PT1 | ACT1/ GWB | 10'-0"/8'-6" | - | - | - | - | REPLACE EXISTING CARPET WITH CPT3 |
| 102 | TRAINING LOBBY | CPT3 | RB1 | - | PT6 | PT1 | - | PT1 | ACT1 | 10'-0" | - | - | - | - | REPLACE EXISTING CARPET WITH CPT3 |
| 103 | TRAINING ROOM 2 | CPT3 / PP2 | PTB2 | - | PT6 | PT1 | OPC2 | PT1 | ACT1/ GWB | 10'-0" | - | - | - | SHD (4) | - |
| 104 | CLOSET | PP2 | PTB2 | - | PT1 | PT1 | PT1 | PT1 | ACT1 | 10'-0" | - | - | - | - | - |
| 105 | TRAINING ROOM 1 | CPT3 / PP2 | PTB2 | - | OPC2 | PT1 | OPC2 | PT1 | ACT1/ GWB | 10'-0" | - | - | - | - | - |
| 106 | BEVERAGE AREA | PP2 | PTB2 | - | PT1 | - | PT1 | VWC5 | GWB | 9'-10" | - | WD-2 | SS-5 | - | - |
| 107 | AV CLOSET | PP2 | PTB2 | - | PT1 | PT1 | PT1 | PT1 | ACT1 | 9'-0" | - | - | - | - | - |
| 108 | BEVERAGE CLOSET | PP2 | PTB2 | - | PT1 | PT1 | PT1 | PT1 | ACT1 | 9'-0" | - | - | - | - | - |
| 109 | PRODUCT EVALUATION | SEE A221 | - | - | OPC1 | PWT1 | PWT1 | PWT1 | ACT2/ GWB | 9'-0" | - | WD-2 | SS-5 | - | - |
| 110 | PREP AREA | QT1 | QTB1 | - | PWT1 | PWT1 | PWT1 | PWT1 | ACT2 | 9'-0" | - | - | - | - | - |
| 111 | PANTRY | VCT1 | RB1 | - | PT1 | PT1 | PT1 | PT1 | ACT2 | 9'-0" | - | - | - | - | - |
| 112 | EXISTING CORRIDOR 1 | CPT3 | RB1 | - | PT1 | PT1 | PT1 | PT1 | EXIST | 9'-0" | - | - | - | - | REPLACE EXISTING TILE WITH CPT3 |
| 113 | EXISTING CORRIDOR 2 | CPT3 | RB1 | - | PT1 | PT1 | PT1 | PT1 | EXIST | 9'-0" | - | - | - | - | REPLACE EXISTING TILE AND CARPET WITH CPT3 |
| 114 | CONFERENCE | CPT3 | RB1 | - | PT6 | - | PT1 | PT1 | ACT1 | 10'-0" | - | - | - | - | REPLACE EXISTING CARPET WITH CPT3 |
| 115 | EXISTING CONFERENCE | EXIST | EXIST | - | EXIST | EXIST | EXIST | EXIST | ACT1 | 9'-0" | - | - | - | - | REPLACE EXISTING CEILING TILE WITH ACT1 |
| 116 | EXISTING INTERVIEW ROOM | EXIST | EXIST | - | EXIST | EXIST | EXIST | EXIST | ACT1 | 9'-0" | - | - | - | - | REPLACE EXISTING CEILING TILE WITH ACT1 |
| 117 | EXISTING CORRIDOR 3 | CPT3 | RB1 | - | PT1 | PT1 | - | PT1 | EXIST | 9'-0" | - | - | - | - | REPLACE EXISTING TILE WITH CPT3 |
| 118 | EXISTING LOCKER ROOM | EXIST | EXIST | - | EXIST | EXIST | EXIST | EXIST | EXIST | 9'-0" | - | - | - | - | ALTERNATE BID: PAINT LOCKERS PT4 (GLOSS) AND BENCH PEDESTALS PT4 |

## FLOOR

CPT1 9" X 36" CARPET TILE : COLOR 1: SHAW/STIPPLE SLATE 13585; 5T116 9"X36"
CPT2 18" X 36" CARPET TILE : COLOR 2: SHAW/DRIFT RECHARGE 38530; 5T142
CPT3 CARPET TILE: COLOR 3: FORBO; STYLE/ #: FLOTEX INTEGRITY; COLOR / #: GRANITE / 350012; INSTALL: 45°, QUARTER-TURN
QT1 8" X 8" QUARRY TILE : DALTILE; PATTERN: QUARRY TEXTURES; COLOR: 0T03 ASHEN GRAY; GROUT: G2
PP2 PORCELAIN TILE: DALTILE, PANORAMIC, CINDER RAIL MATTE CM17, 31.5"X31.5"; GROUT: G7
VCT1 12" X 12" VINYL COMPOSITION TILE : ARMSTRONG; STYLE / #: STANDARD EXCELON; COLOR / #: EARTH GREEN / 51877

## BASE

RB1 RUBBER COVED BASE - 2 1/2" HIGH: JOHNSONITE; COLOR/#: STEEL / 179
PTB1 PORCELAIN PAVER BASE - 3"X24" BATTISCOPA : VIRGINIA TILE; STYLE: MONOCIBEC -MODERN; COLOR: OLIVE MNCMODG 1224R
PTB2 12" X 24" PORCELAIN WALL TILE : DALTILE; STYLE / #: EVER; COLOR / #: EV05 EARTH; GROUT: G3; MORTAR: M1; GROUT RELEASE: GR1; SEALER: S1
QTB1 QUARRY TILE BASE -5"X8" COVE BASE: DALTILE; STYLE: QUARRY TEXTURES / Q-3565; COLOR 0T03 / ASHEN GRAY; GROUT: G2

## WALL

PT1 PAINT - ACRYLIC LATEX - BENJAMIN MOORE: WHITE DOVE OC-17; FINISH EGGSHELL
PT3 PAINT - DRY ERASE PAINT - IDEA PAINT PRO/WHITE
PT4 PAINT - ACRYLIC LATEX - SHERWIN WILLIAMS: GAUNLET GRAY/EGGSHELL
PT5 PAINT - ACRYLIC LATEX - BENJAMIN MOORE: MATCH PANTONE 173C ORANGE
PT6 PAINT - ACRYLIC LATEX - BENJAMIN MOORE: MATCH PANTONE 576C GREEN
PT8 PAINT - ACRYLIC LATEX - SHERWIN WILLIAMS: SKYLINE STEEL SW 1015/EGGSHELL
PT9 DRY ERASE PAINT - IDEA PAINT PRO/CLEAR
PT10 PAINT - ACRYLIC LATEX: SHERWIN WILLIAMS; COLOR: WHITE-SEMI GLOSS, PROVIDE BLOCK FILLER AT CMU WALLS-SEE SPECS
PT11 PAINT - ACRYLIC LATEX - BENJAMIN MOORE: ROCKPORT GRAY / HC-105; FINISH EGGSHELL
VWC1 TEXTILE WALLCOVERING: MAHARAM; TYPE & SIZE: POLYOLEFIN/NYLON 54" WIDE; STYLE / #: TEK-WALL INSET /399382; COLOR / #: TINSEL / 001COLOR 1
VWC2 DRY ERASE WALLCOVERING: WALLTALKER; TYPE & SIZE: RY ERASE WLCV. 60" WIDE; STYLE/ #: JUST-RIGHT; COLOR / #: JR60
NOTE: INSTALL RUN TO CEILING WITH BOTTOM @ CHAIR RAIL
VWC3 VINYL WALLCOVERING : MAHARAM: TYPE & SIZE: VINYL 54" WIDE; STYLE / #: SLEEK / 3958040; COLOR / # : PHANTOM / 006
VWC4 VINYL WALLCOVERING : MAHARAM: TYPE & SIZE: POLYOLEFIN/NYLON 54" WIDE; STYLE / #: SLEEK / 3958040; COLOR / # : HONEYSUCKLE / 002
VWC5 CUSTOM VINYL WALLCOVERING :TAKEFORM; TYPE: AMP-USF/TF-G4
PWT-1 PORCELAIN TILE: DALTILE, PANORAMIC, CINDER RAIL MATTE CM17; 15 1/2" x 31" RUNNING BOND PATTERN
PWT-2 12" X 24" PORCELAIN WALL TILE : DALTILE; STYLE / #: EVER; COLOR / #: EV05 EARTH; GROUT: G-3; MORTAR: M1; GROUT RELEASE: GR1; SEALER: S1
OPC1 OPERABLE PANEL COVERING (VINYL); HUFCOR (OR EQUAL); STYLE / #: CAIRN; COLOR / #: GRAY / 305; TRIM: GRAY
OPC2 OPERABLE PANEL COVERING (FABRIC); HUFCOR (OR EQUAL); STYLE / #: SILK ROAD; COLOR: STORM / 22-09; TRIM: GRAY
OPC3 OPERABLE PANEL COVERING (MARKER BOARD): HUFCOR (OR EQUAL); STYLE / #: K-PROSTEEL MARKERBOARD; COLOR / #: WHITE 938; TRIM: GRAY
CLF CHAIN LINK FENCE
GW1 GRAPHIC WALL. GRAPHIC OFOI. WALL TO BE LEVEL 5 FINISH AND PRIMED. SEE FINISH PLAN FOR LOCATION.

## CEILING

ACT1 2X2 LAY-IN: ARMSTRONG; PATTERN: ULTIMA 1912 - 24" X 24" X 3/4"; BEVELED TEGULAR 9/16" EDGE; COLOR: WHITE
ACT2 2X2 LAY-IN: USG; PATTERN: SHEETROCK VINYL COVERED GYPSUM - 24" X 24" X 1/2"; SQ EDGE; COLOR: WHITE
GWB PAINTED GYPSUM WALLBOARD; COLOR: PAINT PT1 U.N.O

## ARCH. WOODWORK

PL-1 PLASTIC LAMINATE: FORMICA, GRAPHITE, 837-58, MATTE
PL-2 PLASTIC LAMINATE: FORMICA, DOVER WHITE 7197-58, MATTE
PL-3 PLASTIC LAMINATE: FORMICA, FOLKSTONE 927-58, MATTE
PL-4 PLASTIC LAMINATE: FORMICA, CITADEL 1097-58, MATTE
PL-5 PLASTIC LAMINATE: APRA, SILKEN COFFEE 3309, GHILI FINISH
PL-7 PLASTIC LAMINATE: PIONITE, FINE OAK W0951, SUEDE
PL-8 PLASTIC LAMINATE: PIONITE, SLATE SG228, SUEDE
PL-9 PLASTIC LAMINATE: LAMINART, BRONZE 2402-T, TEXTURED FINISH
SS-1 SOLID SURFACE: DALTILE, QUARTZ, MORNING FROST NQ30, POLISHED
SS-2 SOLID SURFACE: CORIAN, QUARTZ, CASHMERE CARRARA
SS-3 SOLID SURFACE: SEIEFFE CORP, OKITE, WHITE AVION 4001
1 SS-4 SOLID SURFACE: CORIAN, GLACIER WHITE
SS-5 SOLID SURFACE: DIFINITI, TYPE: EVOKE PLUS (QUARTZ), COLOR / #: GRAFITE
ST1 STONE: TERRAZZO & MARBLE SUPPLY COMPANIES; TYPE: GRANITE; COLOR:ABSOLUTE BLACK
WD WOOD -STAIN AND VARNISH COLOR: TBD
1 WD-01 WISCONSIN BENCH MANUFACTURING, HARD ROCK BUTCHER BLOCK, CLEAR POLY FINISH, 1 1/2" THICK
WD-02 QUARTER-SAWN WHITE OAK WOOD VENEER, CLEAR
WD-03 TERRAMAI, LOST COAST REDWOOD 7" PANELING, WEATHERED AND TINTED SPRING GREEN, 1/2" THICK X 7" WIDE X 2' - 5'6" RANDOM LENGTHS
WD-04 TERRAMAI, DIRTY FACE 3" PANELING, SKIP PLANED WITH BLACK OIL, 1/2" THICK X 3" WIDE X 2' - 8' RANDOM LENGTHS

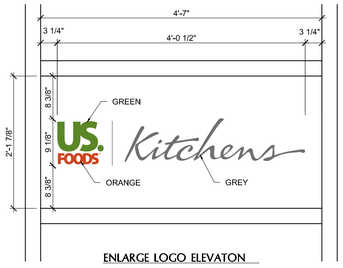
## WINDOW BLINDS

HLB HORIZONTAL LOUVER BLINDS: LEVOLOR; STYLE: RIVIERA 1" CLASSIC; COLOR / #: STAIN NICKEL / 00031
SHD ROLLER SHADE: DRAPER; STYLE: MANUAL FLEXSHADE W/FASCIA; OPERATION: BEAD CHAIN CLUTCH; FABRIC: TBD; COLOR: TBD

## GROUT

G1 GROUT: MAPEI: COLOR / #: SAHARA BEIGE / 11; SIZE: 1/8"
G2 GROUT: MAPEI: COLOR / #: CHARCOAL / 47; SIZE: 1/8"
G3 GROUT: MAPEI: COLOR / #: BAHAMA BEIGE / 04; SIZE: 1/8"
G4 GROUT: TEC; COLOR / #: BRIGHT WHITE #910; SIZE: 1/8"
G5 GROUT: MAPEI: COLOR / #: GRAY 09; SIZE: 1/8"
G6 GROUT: TEC; COLOR / #: LIGHT PEWTER #927; SIZE: 1/8"
G7 GROUT: MAPEI: COLOR / # PEWTER / 2; SIZE: 1/8"

NOTE: ALL ABOVE FINISHES MAY OR MAY NOT BE USED - REFER TO SCHEDULE.




ENLARGE LOGO ELEVATON
MANUFACTURER: APCO
LOGO: L6948
SIZE: 9 1/8" x 48 1/2"
COLORS: PANTONE 576 (GREEN),
PANTONE 173 (ORANGE) & PANTONE
COOL GREY 11.

1 / A801 LOGO FOR SLIDING DOOR
1" = 1'-0"

# STANDARD DOOR AND HARDWARE SCHEDULE

| DOOR NO. | TYPE | MAT | FINISH | NOMINAL SIZE WIDTH PER LEAF | NOMINAL SIZE HEIGHT | NOMINAL SIZE THICKNESS | GLAZING SIZE/TYPE | FRAME TYPE | FRAME MATL | FRAME FINISH | SECTIONS HEAD | SECTIONS JAMB | SECTIONS MISC. | HARDWARE GROUP | FIRE RATED ASSEMBLY | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 103-1 | A | SCW | S&V | 3'-0" | 7'-0" | 1 3/4" | - | II | HM | P | 2/A501 | 3/A501 | 4/A501 | 1 | - | DOOR AND FRAME FINISH TO MATCH EXISTING |
| 103-2 | A | SCW | S&V | 3'-0" 1 | 7'-0" | 1 3/4" | - | II | HM | P | 2/A501 | 3/A501 | 4/A501 | 1 | - | DOOR AND FRAME FINISH TO MATCH EXISTING |
| 104 | C | AL | AAL | 4'-2" | 10'-0" | PER MFR. | SG | III | AL | AAL | 18/A501 | NA | 18/A501 | PER MFR | - | MFR. TO FIELD VERIFY REQUIRED SIZE OF DOOR PER OPENING |
| 105 | A | SCW | S&V | 3'-0" | 7'-0" | 1 3/4" | - | II | HM | P | 2/A501 | 3/A501 | 4/A501 | 1 | | DOOR AND FRAME FINISH TO MATCH EXISTING |
| 106 | C | AL | AAL | 4'-8" | 10'-0" | PER MFR. | SG | III | AL | AAL | 18/A501 | NA | 18/A501 | PER MFR | - | MFR. TO FIELD VERIFY REQUIRED SIZE OF DOOR PER OPENING |
| 107 | A | SCW | S&V | 3'-0" | 7'-0" | 1 3/4" | - | I | HM | P | 2/A501 | 3/A501 | 4/A501 | 3 | - | DOOR AND FRAME FINISH TO MATCH EXISTING |
| 108 | A | SCW | S&V | 3'-0" | 7'-0" | 1 3/4" | - | I | HM | P | 2/A501 | 3/A501 | 4/A501 | 3 | - | DOOR AND FRAME FINISH TO MATCH EXISTING |
| 109 | A | SCW | S&V | 3'-0" | 7'-0" | 1 3/4" | - | I | HM | P | 2/A501 | 3/A501 | 4/A501 | 1 | - | DOOR AND FRAME FINISH TO MATCH EXISTING |
| 110 | B | SS | F | 3'-0" | 7'-0" | 1 3/4" | SG | I | SS | F | 19/A501 | 20/A501 | 4/A501 | 2 | - | - |

## DOOR SCHEDULE KEY

**MATERIAL**
AL ALUMINUM
HM HOLLOW METAL
HMI HOLLOW METAL INSULATED
SCW SOLID CORE WOOD
GS GALVANIZED STEEL
DW DRYWALL RETURN
SS STAINLESS STEEL

**GLASS**
SG SAFETY GLASS

**FINISH**
F FACTORY
P PAINT
S&V STAIN & VARNISH
AAL ANODIZED ALUMINUM
PL PLASTIC LAMINATE

## HARDWARE SETS

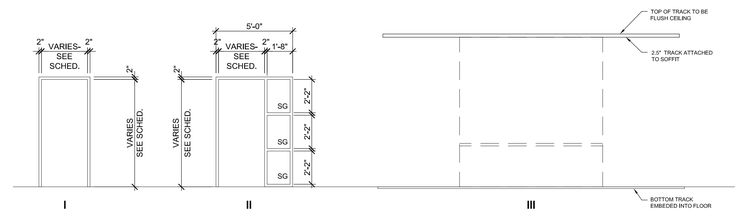
Hardware Set 1
(1-1/2) Pair Hinges
(1) Lockset (Classroom)
(1) Wall Stop

Hardware Set 2
(1) Bottom Pivot Hinge
(1) Top Pivot / Concealed Closer
(2) Kick Plates
(2) Floor Stops

Hardware Set 3
(1-1/2) Pair Hinges
(1) Roller Latch
*Provide Recessed Hardware
(1) Recessed Pull

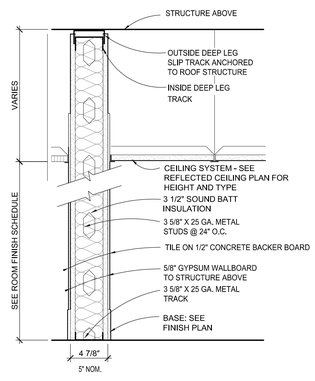
## DOOR TYPES

SCALE: N.T.S.

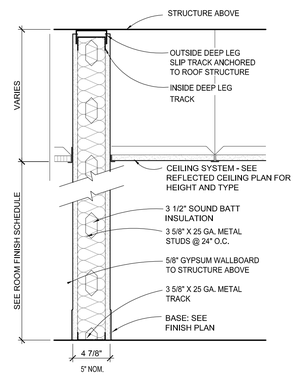



## DOOR FRAME TYPES

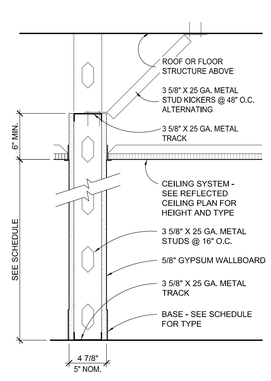
SCALE: N.T.S.




WALL TYPE A
1 1/2" = 1'-0"




WALL TYPE B
1 1/2" = 1'-0"




WALL TYPE C
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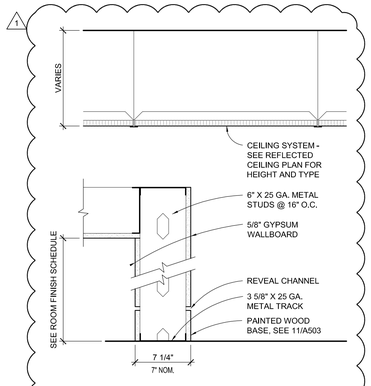


WALL TYPE D
1 1/2" = 1'-0"


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BOCA RATON, FL 33487

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| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
ROOM FINISH / DOOR SCHEDULES AND WALL TYPES

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
A801

ARCHITECTURAL

NORTH

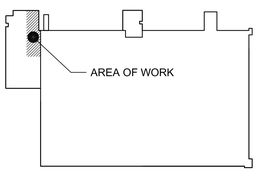
## EQUIPMENT AND FURNITURE PLAN

1/4" = 1'-0"

## EQUIPMENT SCHEDULE

| ITEM # | QTY. | DESCRIPTION | LOCATION | MANUFACTURER | MODEL | DRAIN | WATER | GAS | ELECT. | REMARKS / OPTIONS |
|---|---|---|---|---|---|---|---|---|---|---|
| K1 | 1 | FRYER | PRODUCT EVAL. | VULCAN | 2TR45AF | | | ■ LP, 1-1/4" | ■ 120v | CASTERS |
| K2 | 1 | RANGE W/ OVEN | PRODUCT EVAL. | VULCAN | 60SS-6B24GT | | | ■ LP, 1" | | CASTERS |
| 1 K3 | 1 | SALAMANDER BROILER | PRODUCT EVAL. | VULCAN | 36IRB | | | ■ LP, 3/4" | | MOUNT TO ITEM K2 REINFORCED BACK RISER. |
| K4 | 1 | COUNTERTOP CHARBROILER | PRODUCT EVAL. | VULCAN | VACB36 | | | ■ LP, 3/4" | | SITS ON ITEM K6 |
| K5 | 1 | COUNTERTOP ELECTRIC OVEN | PRODUCT EVAL. | BAKERS PRIDE | DP-2 | | | | ■ 208v | SITS ON ITEM K6 |
| K6 | 1 | REFRIGERATED BASE | PRODUCT EVAL. | NOR-LAKE | NLCB72 | | | | ■ 115v | CASTERS |
| K7 | 1 | DOUBLE STACKED COMBO OVEN STEAMER | PRODUCT EVAL. | ALTO-SHAAM | CTP7-20G-STK-QS | ■ 1-1/2" | ■ (2) 3/4" C | ■ LP, 3/4" | ■ 208v, 3p | CASTERS |
| K8 | 1 | REFRIGERATOR UNDERCOUNTER | PRODUCT EVAL. | NOR-LAKE | 1 NLUR36A | | | | ■ 115v | 4" CASTERS |
| K9 | 1 | FREEZER UNDERCOUNTER | PRODUCT EVAL. | NOR-LAKE | NLUF27A | | | | ■ 115v | CASTERS |
| K10 | 1 | BULB WARMER | PRODUCT EVAL. | EAGLE GROUP | BW-2-120-I | | | | ■ 120v | SITS ON ITEM K9 |
| K11 | 1 | POT FILLER | PRODUCT EVAL. | T&S BRASS & BRONZE WKS | B-0605 | | ■ 3/4" C | | | |
| K12 | 1 | 4 SLICE TOASTER | PRODUCT EVAL. | SUPERIOR | 1762731 | | | | ■ 120v | |
| K13 | 1 | MICROWAVE | PRODUCT EVAL. | AMANA | RCS10DSE | | | | ■ 120v | SITS ON ITEM K14 |
| K14 | 1 | TABLE W/ ENCLOSED BASE | PRODUCT EVAL. | ADVANCE TABCO | CF-SS-304 | | | | | |
| K15 | 2 | HAND SINK | PRODUCT EVAL. / PREP | ADVANCE TABCO | 7-PS-68 | ■ 1-1/2" | ■ 1/2" HC | | | PROVIDE TMV-1 SET TO 105 DEGREES F. |
| K16 | 1 | DROP-IN ICE WELL | PRODUCT EVAL. | HATCO | IWB-S1 | ■ 1" | | | | PROVIDE FABRICATED BUTCHER BLOCK COVER TO BE FLUSH W/ COUNTERTOP |
| K17 | 1 | REACH-IN REFRIGERATOR | PREP | SUPERIOR | 2775708 | | | | ■ 120v | CASTERS |
| K18 | 1 | REACH-IN FREEZER | PREP | SUPERIOR | 2775799 | | | | ■ 120v | CASTERS |
| K19 | 1 | COUNTERTOP POWER MIXER | PREP | KITCHEN AID | KSMC895DP | | | | ■ 120v | |
| K19a | 1 | MIXER ACCESSORIES | PREP | ALFA INTERNATIONAL | FGA | | | | | |
| 1 K19b | 1 | MIXER ACCESSORIES | PREP | ALFA INTERNATIONAL | KPEX | | | | | |
| K19c | 1 | MIXER ACCESSORIES | PREP | ALFA INTERNATIONAL | SSA | | | | | |
| K20 | 2 | STAINLESS STEEL PREP TABLE | PREP | ADVANCE TABCO | KSS-304 | | | | | UTENSIL DRAWER OFF-CENTERED. (SS-2020) |
| K21 | 1 | SLICER | PREP | SUPERIOR | 2880078 | | | | ■ 120v | |
| K22 | 2 | STAINLESS STEEL WORK TABLE | PREP | ADVANCE TABCO | MS-365 | | | | | (2) UTENSIL DRAWERS CENTERED. (SS-2020) |
| K22a | 6 | STAINLESS STEEL DRAWER | PREP | ADVANCE TABCO | SS-2020 | | | | | (2) @ EACH K22, (1) @ EACH K20 |
| K23 | 1 | THREE COMPARTMENT SINK | PREP | ADVANCE TABCO | 93-3-54-24RL | ■ 1-1/2" | ■ 3/4" HC | | | PROVIDE LEVER DRAIN AND INDIRECT WASTE PIPING FOR EACH COMPARTMENT TO FLOOR SINK. |
| K24 | 1 | SOILED DISH TABLE | PREP | ADVANCE TABCO | DTS-S70-60L | ■ 1-1/2" | | | | RACK CROSSBAR OVER SINK |
| K25 | 1 | DISHWASHER | PREP | JACKSON | 1 TEMPSTAR VER | ■ 1 1/2" | ■ 3/4" C | | ■ 115v | VENTLESS DISHWASHER THAT DOES NOT REQUIRE A HOOD. BUILT-IN 70°F RISE BOOSTER HEATER |
| K26 | 1 | CLEAN DISH TABLE | PREP | ADVANCE TABCO | DTC-S70-48R | | | | | |
| K27 | 1 | ICE MAKER (CUBE STYLE) | PREP | MANITOWOC | IYT-0450A | ■ (2) 1/2" | ■ (2) 3/8" C | | ■ 208v | ICE BIN K27a AND WATER FILTER K27b |
| K27a | 1 | ICE BIN | PREP | MANITOWOC | D400 | | | | | |
| K27b | 1 | WATER FILTER | PREP | MANITOWOC | AR-10000 | | ■ (2) 3/8" C | | | |
| K28 | 1 | WIRE RACK | PREP | INTERMETRO | A2448NK3/74PK3 | | | | 1 5 SHELVES | |
| K29 | 2 | SHELF W/ POT RACK | PREP | ADVANCE TABCO | PS-12-36 | | | | | |
| K30 | 3 | STAINLESS STEEL SHELF | PREP | ADVANCE TABCO | WS-KD-24 | | | | | |
| K31 | 1 | STAINLESS STEEL SHELF | PREP | ADVANCE TABCO | WS-KD-36 | | | | | |
| K32 | 1 | TWO COMPARTMENT SINK | PREP | ADVANCE TABCO | 93-22-40 | ■ 1-1/2" | ■ 3/4" HC | | | PROVIDE LEVER DRAIN AND INDIRECT WASTE PIPING FOR EACH COMPARTMENT TO FLOOR SINK. |
| K33 | 1 | UNDERMOUNT SINK | PRODUCT EVAL. | ADVANCE TABCO | CO-1416A-10RE | ■ 1-1/2" | ■ 1/2" HC | | | PROVIDE GRID DRAIN AND INDIRECT WASTE PIPING TO FLOOR SINK. |
| K34 | 1 | GOOSE NECK FAUCET | PRODUCT EVAL. | T&S BRASS & BRONZE WKS | B-1141-04-CR | | ■ 1/2" HC | | | PROVIDE TMV-1 SET TO 120 DEGREES F AND B-0199-01-F15 AERATOR. USE WITH K33. |
| K35 | 1 | PRE-RINSE SPRAY FAUCET W/ ADD ON FAUCET | PREP | T&S BRASS & BRONZE WKS | B-0133-12-CRB8P | | ■ 1/2" HC | | | USE WITH K23. |
| K36 | 1 | DISPOSAL | PREP | IN-SINK-ERATOR | SS-200-5-AS101 | ■ 1-1/2" | ■ 1/2" C | | | PROVIDE CC-101 CONTROL CENTER AND LOW FLOW OPTION. |
| K37 | 1 | REVERSE OSMOSIS WATER FILTER | PREP | 3M PURIFICATION | SCALEGARD HP | | ■ 1/2" C | | | PROVIDE 20 GAL RO TANK FRP-5598408 AND SCALEGARD HP INSTALL KIT (6841441) |
| K38 | 2 | 18" MAGNETIC KNIFE RACK | PREP | SUPERIOR | 8330896 | | | | | |
| K39 | 1 | FAUCET | PREP | T&S BRASS & BRONZE WKS | B-2463 | | ■ 1/2" HC | | | PROVIDE B-0199-01 AERATOR. USE WITH K32. |
| K40 | 2 | ICE TEA BREWER | BEV. CENTER IN TRAINING RM. | BUNN | 36700.0013 | | ■ 1/4" C | | ■ 120v | WATER FILTER AND DISPENSER K40a |
| K40a | 2 | ICE TEA DISPENSER | BEV. CENTER IN TRAINING RM. | BUNN | TDS-3 | | | | | |
| K41 | 1 | COFFEE BREWER | BEV. CENTER IN TRAINING RM. | BUNN | 23001.0006 | | ■ 1/4" C | | ■ 120v | WATER FILTER |
| K42 | 1 | ADA COMPLIANT UNDERCOUNTER REFRIGERATOR | BEV. CENTER IN TRAINING RM. | PERLICK | HB24BS | | | | ■ 120v | S.S. & GLASS DOOR |
| K43 | 1 | MOBILE HEATED HOLDING CABINET | PRODUCT EVAL. | METRO | C539-HDS-4-GY | | | | ■ 120v | |
| K44 | 3 | RECYCLE BINS | PRODUCT EVAL. | LANDSCAPEFORMS | SORT / 3 BIN 1 | | | | | |
| K45 | 1 | INDUCTION RANGE, COUNTERTOP | PRODUCT EVAL. | SUPERIOR | 2943546 | | | | ■ 120v | MOBILE. STORED IN PANTRY |
| K46 | 2 | SANDWICH/ PANINI GRILL | PRODUCT EVAL. | CADCO | CPG-10 | | | | ■ 120v | MOBILE. STORED IN PANTRY |
| K47 | 1 | BEVERAGE DISPENSER, NON-INSULATED | BEV. CENTER IN TRAINING RM. | TABLECRAFT | 85 | | | | | |
| K48 | 1 | JUICE DISPENSER | BEV. CENTER IN TRAINING RM. | BUNN | 37300.0000 | | ■ 3/8" C | | ■ 120v | WATER FILTER |
| 1 K49 | 1 | PRE-RINSE SPRAY | PREP | T&S BRASS & BRONZE WK. | B-0133-BC | | ■ 1/2" HC | | | USE WITH K24. |

NOTE:
A. PROPANE WILL BE USED FOR GAS TYPE.
B. (NUMBER) - EQUIPMENT HUNG FROM CEILING OR WALL PER PLANS.
C. EQUIPMENT IN GREY NOT USED.




NORTH

## KEY PLAN

N.T.S.

ESI ARCHITECTURAL & ENGINEERING SERVICES INC.
SMART BUILDING SOLUTIONS
Arch. Bus. Lic. Nbr. AA26001599
Eng. Bus. Lic. Nbr. 28045
950 Walnut Ridge Drive | Hartland, WI 53029 | 262.369.3535 T | 262.369.3592 F

US FOODS®

KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS

| | | |
|---|---|---|
| 1 | 2-17-20 | – ADDENDUM #1 |
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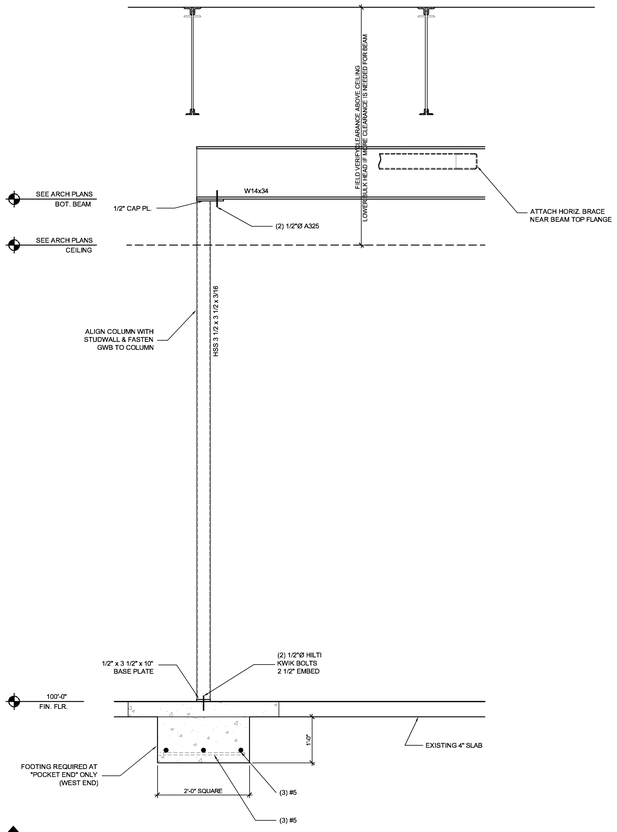
| DATE: | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: MAS | CHK'D By: TPG |

SHEET TITLE
EQUIPMENT & FURNITURE PLAN

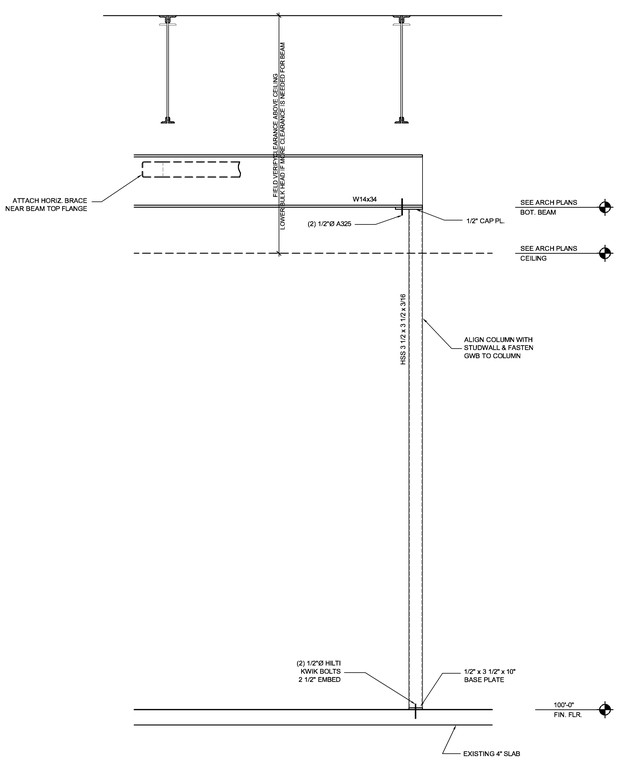
PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
A901

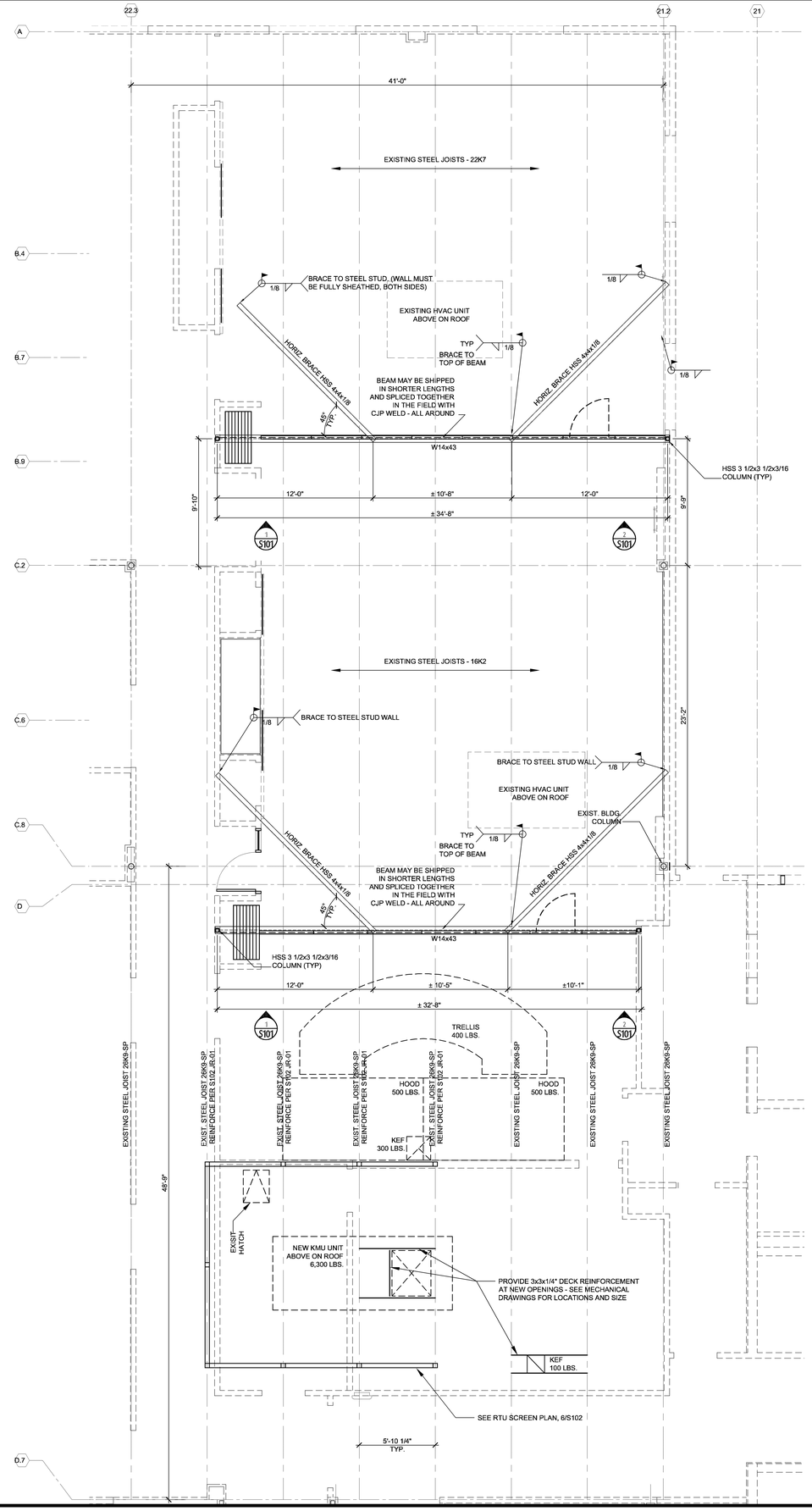
ARCHITECTURAL




1 S101 NEW COLUMN WITH FOOTING
3/4" = 1'-0"




2 S101 NEW COLUMN ALONG EXTERIOR WALL
3/4" = 1'-0"




# STRUCTURAL NOTES

## DESIGN LOADS:

ALL DESIGN LOADS ARE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE

WIND LOAD:
ASCE 7-10 168 MPH
47 PSF ( .6W = 29 PSF )

## SOILS AND BEARING:

1.) THE FOUNDATION BEARING VALUE IS ASSUMED TO BE 2,000 PSF.
FOOTING BOTTOMS TO BE INSPECTED BY QUALIFIED SOILS ENGINEER.

## CONCRETE AND REINFORCEMENT:

1.) CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW.

2.) USE fc = 4,000 PSI MINIMUM (L6.5) LIMESTONE CONCRETE FOR ALL SLABS ON GRADE, RETAINING WALLS AND ALL EXTERIOR PAVING.
USE fc = 3,000 PSI MINIMUM (L5.5) LIMESTONE CONCRETE FOR ALL SPREAD FOOTINGS, FOUNDATION WALLS AND PIERS.

DESIGN CONCRETE MIXES TO THE FOLLOWING SPECIFICATIONS:

| STRENGTH | MAX. WATER/CEMENT RATIO | AIR CONTENT % | SLUMP (IN.) |
|---|---|---|---|
| 4000PSI | .42 | 1% TO 3% | 2-4 |
| 3000PSI | .47 | 1% TO 3% | 2-4 |

3.) ALL REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60 AND PROVIDED UNDER CONCRETE BID PACKAGE

4.) CONCRETE DESIGN MIXTURE IS THE RESPONSIBILITY OF THE SUPPLIER. DESIGN MIXTURE MUST BE APPROVED BY DESIGN/BUILDER AND STRUCTURAL ENGINEER PRIOR TO POURING ANY CONCRETE.

## STEEL:

1.) ALL STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO ASTM A-36 EXCEPT AS NOTED HERE

2.) WIDE FLANGE MEMBERS SHALL BE 50 KSI (A992)

3.) TUBE COLUMN SHALL CONFORM TO ASTM A-500 GRADE B.

4.) ALL STRUCTURAL STEEL SHALL BE PRIME PAINTED WITH LIGHT GREY OXIDE PRIMER.

5.) BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE 3/4" DIAMETER A325 IN BEARING TYPE CONNECTIONS, TIGHTENED TO SNUG TIGHT PER AISC UNLESS NOTED OTHERWISE.

6.) ANCHOR BOLTS SHALL CONFORM TO ASTM A-36 OR A-307. ALL ANCHOR BOLTS SHALL BE PRESET BY TEMPLATE OR LEVELING PLATE.

7.) CONNECTIONS NOT SPECIFICALLY DETAILED SHALL BE DESIGNED BY THE FABRICATOR PER AISC SPECIFICATIONS. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW BY THE DESIGN/BUILDER AND STRUCTURAL ENGINEER..

8.) ALL ERECTING SHALL BE DONE IN ACCORDANCE TO SHOP DRAWINGS PROVIDED BY FABRICATOR.

## DESIGN METHOD

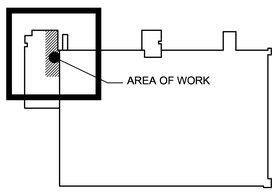
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
(ACI 318-14)

SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF
STRUCTURAL STEEL FOR BUILDINGS (AISC 14TH EDITION)

SPECIFICATION FOR DESIGN OF COLD FORMED STRUCTURAL MEMBERS
(AISI S200-2012)

NORTH

## STRUCTURAL PLAN
1/4" = 1'-0"




NORTH

## KEY PLAN
N.T.S.

ESI
ARCHITECTURAL & ENGINEERING SERVICES INC.
CERTIFICATE OF AUTHORIZATIONS
Arch. Bus. Lic. Nbr. AA26001059
Eng. Bus. Lic. Nbr. 29245
950 Walnut Ridge Drive | Hartland, WI 53029 | 262.369.3553 T | 262.369.3599 F

4th DIMENSION DESIGN, INC.
817 Venture Court
Waukesha, Wisconsin 53189
(262) 896-6500

KITCHEN RENOVATION FOR
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7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS
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| DATE: | JOB NO. |
|---|---|
| 01-06-20 | 50-1414-19 |
| DWG By: KMR | CHKD By: JR |

SHEET TITLE
FIRST FLOOR FRAMING PLAN & DETAILS

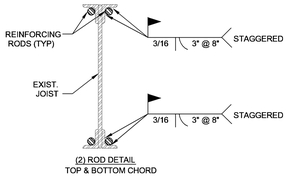
PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
S101

STRUCTURAL

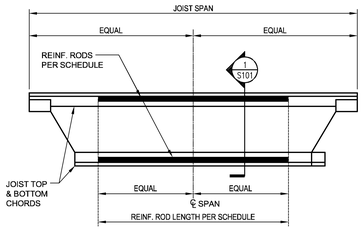
| JOIST REINFORCING SCHEDULE | | | | | |
|---|---|---|---|---|---|
| JOIST MARK | (2) RODS TOP & BOTTOM CHORDS (SEE 1/S102) | CHORD REINF. ROD LENGTH (SEE NOTE 1) | WEBS TO BE REINFORCED @ EACH END (SEE 4/S102) | SEAT REINF. @ BOTH ENDS OF JOISTS (SEE 3/S102) | REMARKS |
| JR-01 | 7/8" Ø | 30'-0" | 4 | YES | |

NOTE 1: LOCATE REINF. RODS ALONG LENGTH OF JOISTS PER DETAIL 2/S102 (AS REQUIRED BY SCHEDULE)
NOTE 2: DO NOT CUT OR DRILL ANY EXISTING JOIST MEMBERS (TYP. ALL EXISTING JOIST)

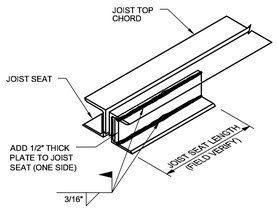



1 S102 DETAIL
N.T.S.

ROD MATERIAL:
50 KSI STEEL ROD
OR WELDABLE REBAR (60KSI)

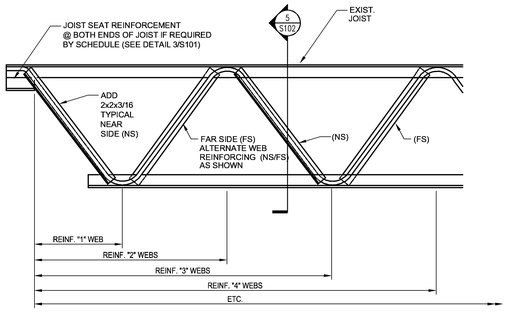



2 S102 DETAIL
N.T.S.

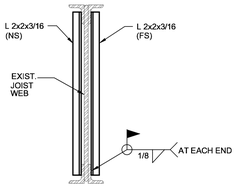



3 S102 DETAIL
N.T.S.

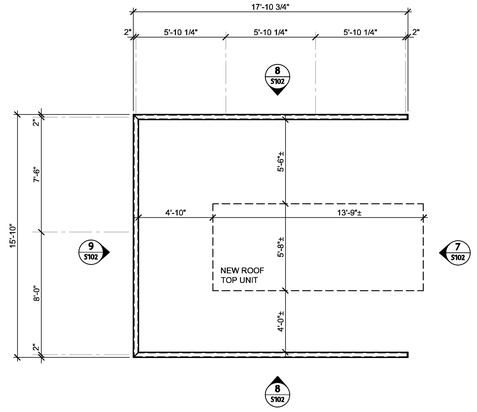
SEAT REINF. PLATE MATERIAL:
50 KSI STEEL




4 S102 DETAIL
N.T.S.

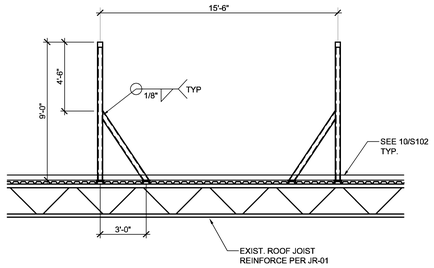



5 S102 DETAIL
N.T.S.



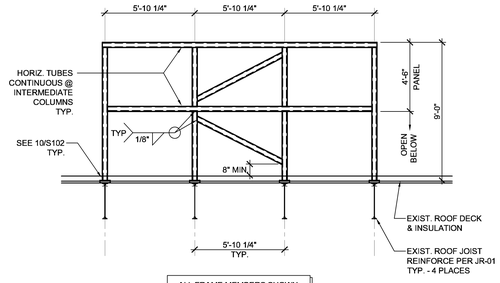

ALL FRAME MEMBERS SHOWN
= HSS 4 x 4 x 3/16

6 S102 RTU SCREEN - PLAN VIEW
1/4" = 1'-0"



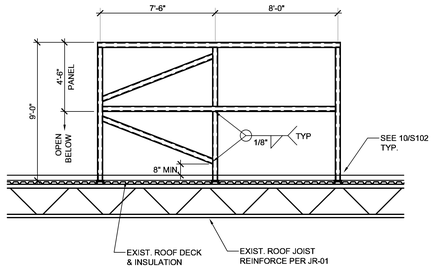

ALL FRAME MEMBERS SHOWN
= HSS 4 x 4 x 3/16

7 S102 EAST ELEVATION
1/4" = 1'-0"



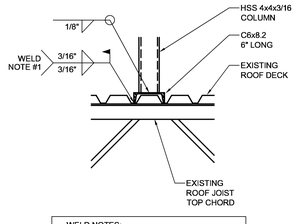

ALL FRAME MEMBERS SHOWN
= HSS 4 x 4 x 3/16

8 S102 NORTH & SOUTH ELEVATIONS
1/4" = 1'-0"




ALL FRAME MEMBERS SHOWN
= HSS 4 x 4 x 3/16

9 S102 WEST ELEVATION
1/4" = 1'-0"




WELD NOTES:
1.) BURN THRU DECK, WELD "C" TO JOIST

10 S102 BASE DETAIL - SCREEN COLUMNS
1/4" = 1'-0"


ESI
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SURVEYING & MAPPING
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(262) 896-6500


KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

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- -
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| DATE | JOB NO. |
|---|---|
| 01-06-20 | 50-1414-19 |
| DWG By: KMR | CHK'D By: JR |

SHEET TITLE
JOIST REINFORCEMENT & ROOF SCREEN

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
S102

STRUCTURAL

# GENERAL NOTES

## GENERAL

A. Provide all materials and equipment and perform all labor required to install complete and operable mechanical systems as indicated on the drawings, as specified, and as required by authorities having jurisdiction.

B. Contract document drawings for mechanical work (HVAC and plumbing) are diagrammatic and are intended to convey scope and general arrangement only.

C. Install all mechanical equipment and appurtenances in accordance with manufacturers' recommendations, contract documents, and applicable codes and regulations.

D. Provide vibration isolation for all mechanical equipment to prevent transmission of vibration to building structure.

E. Provide vibration isolators for all piping supports connected to, and within 50 feet of, isolated equipment (except at base elbow supports and anchor points) throughout mechanical equipment rooms.

F. The location of existing underground utilities is shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. The contractor shall pay for and repair all damages caused by failure to exactly locate and preserve any and all underground utilities unless otherwise noted.

G. Coordinate construction of all mechanical work with architectural, structural, civil, electrical work, etc., shown on other contract document drawings.

H. Maintain a minimum 6'-8" clearance to the underside of pipes, ducts, conduits, suspended equipment, etc., throughout access routes in mechanical rooms.

I. All tests shall be completed before any mechanical equipment or piping insulation is applied.

J. Locate all temperature, pressure, and flow measuring devices in accessible locations with the straight section of pipe or duct up- and downstream as recommended by the manufacturer to ensure accuracy of measurements.

K. Where two or more items of the same type of equipment are required, the product of one manufacturer shall be used.

L. Reinforcement, detailing, and placement of concrete shall conform to ASTM 315 and ACI 318. Concrete shall conform to ASTM C94. Concrete work shall conform to ACI 318, part entitled "Construction Requirements." Compressive strength in 28 days shall be 3,000 psi. Total air content of exterior concrete shall be between 5 and 7 percent by volume. Slump shall be between 3 and 4 inches. Concrete shall be cured for 7 days after placement.

M. Coordinate all equipment connections with manufacturers' certified drawings. Coordinate and provide all duct and piping transitions required for final equipment connections to furnished equipment. Field verify and coordinate all duct and piping dimensions before fabrication.

N. All control wire and conduit shall comply with the National Electric Code and Division 26 of the specification.

O. Concrete housekeeping pads to suit mechanical equipment shall be sized and located by the mechanical contractor. Minimum concrete pad thickness shall be 6 inches. Pad shall extend beyond the equipment a minimum of 6 inches on each side. Concrete housekeeping pads shall be provided by the general contractor. It shall be the responsibility of the mechanical contractor to coordinate the size and location of concrete housekeeping pads with the general contractor.

P. Where beams are indicated to be penetrated with ductwork or piping, coordinate ductwork and piping layout with beam opening size and opening locations. Coordination shall be done prior to the fabrication of ductwork, cutting of piping, or fabrication of beams.

Q. When mechanical work (HVAC, plumbing, sheet metal, etc.) is subcontracted, it shall be the mechalncal contractor's responsibility to coordinate subcontractors and the associated contracts. When discrepancies arise pertaining to which contractor provides a particular item of the mechanical contract or which contractor provides final connections for a particular item of the mechanical contract, it shall be brought to the attention of the mechanical contractor, whose decision shall be final.

R. The locations of all items shown on the drawings or called for in the specifications that are not definitely fixed by dimensions are approximate only. The exact locations necessary to secure the best conditions and results must be determined by the project site conditions and shall have the approval of the engineer before being installed. Do not scale drawings.

S. All miscellaneous steel required to ensure proper installation and as shown in details for piping, ductwork, and equipment (unless otherwise noted) shall be furnished and installed by the mechanical contractor.

T. Provide access panels for installation in walls and ceilings, where required, to service dampers, valves, smoke detectors, and other concealed mechanical equipment. Access panels shall be turned over to the general contractor for installation.

U. All equipment, piping, ductwork, etc., shall be supported as detailed, specified, and required to provide a vibration-free isolation.

V. All ductwork, piping, and equipment supported from structural steel shall be coordinate with the general contractor. All attachments to steel bar joists, trusses, or joist girders shall be at panel points. Provide beam clamps meeting MSS standards. Welding to structural members shall not be permitted. The use of C-clamps shall not be permitted.

W. Mechanical equipment, ductwork, and piping shall not be supported from a metal deck.

X. Locations and sizes of all floor, wall, and roof openings shall be coordinated with all other trades involved.

Y. All openings in fire walls due to ductwork, piping, conduit, etc., shall be fire stopped per specifications.

Z. All air-conditioning condensate drain lines from each air handling unit and rooftop unit shall be piped full size of the unit drain outlet, with "P" trap, and piped to the nearest allowable drain in accordance with the authority having jurisdiction. See the details shown in the drawings or contract specifications for the depth of the air conditioning condensate trap.

AA. Refer to typical details for ductwork, piping, and equipment installation.

## PLUMBING

A. Provide all materials and equipment and perform all labor required to install complete and operable plumbing systems as indicated on the drawings, and as specified and required by authorities having jurisdiction.

B. Run all soil waste and vent piping with 1 percent minimum grade unless otherwise noted. Horizontal vent piping shall be graded to drip back to the soil or waste pipe by gravity.

C. Elevations as shown on the drawings are to the bottom of all pressure piping and to the invert of all gravity piping.

D. Adjust sewer inverts to keep the tops of pipes in line where the pipe's size changes.

E. Maintain a minimum of 3'-6" of ground cover over all exterior underground water mains and a minimum of 3'-0" of ground cover over all exterior underground sewers and drains.

F. Provide shutoff valves in all domestic water piping system branches in which branch piping serves two or more fixtures.

G. Unless otherwise noted, all domestic cold and hot water piping shall be NPS 1/2.

H. Unless otherwise noted, all piping is overhead, tight to the underside of the structure, with space for insulation if required.

I. Install piping so all valves, strainers, unions, traps, flanges, and other appurtenances requiring access are accessible.

J. Where domestic cold and hot water piping drops into a pipe chase, the size shown for the pipe drops shall be used to the last fixture.

K. Install all piping without forcing or springing.

L. All piping shall clear doors and windows.

M. All piping shall grade to low points. Provide hose end drain valves at the bottom of all risers and low points.

N. Unions and/or flanges shall be installed at each piece of equipment, in bypasses, and in long piping runs (100 feet or more) to permit disassembly for alteration and repairs.

O. All valves shall be adjusted for smooth and easy operation.

P. Unless otherwise noted, all valves (except control valves) and strainers shall be the full size of the pipe before reducing the size to make connections to the equipment and controls.

Q. Provide all plumbing fixtures and equipment with accessible stops.

R. Unless otherwise noted, drains shall be installed at the low point of roofs, area-ways, floors, etc.

S. Provide cleanouts in sanitary and storm drainage systems at ends of runs, at changes in direction, near base of stacks, every 90 feet in horizontal runs and elsewhere as indicated.

T. All cleanouts shall be the full size of the pipe for pipe sizes NPS 4 and smaller, and shall be NPS 4 for pipe sizes larger than NPS 4.

U. All balancing valves and butterfly valves shall be provided with position indicators and maximum adjustable stops (memory stops).

V. All valves shall be installed so the valve remains in service when the equipment or piping on the equipment side of the valve is removed.

W. All piping work shall be coordinated with all trades involved. Offsets in piping around obstructions shall be provided at no additional cost to the owner.

X. Provide flexible connections in all piping systems connected to pumps and other equipment that require vibration isolation. Flexible connections shall be provided as close to the equipment as possible or as indicated on the drawings.

# ABBREVIATIONS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AFF | ABOVE FINISHED FLOOR | FCO | FLOOR CLEANOUT | MISC | MISCELLANEOUS | SAN | SANITARY |
| AFG | ABOVE FINISHED GRADE | FD | FLOOR DRAIN | MOCP | MAXIMUM OVERCURRENT PROTECTION | SCFM | CFM AT STANDARD CONDITIONS |
| AMP | AMPERE(S) | FLA | FULL LOAD AMPERES | MTR | MOTOR | SCFS | CFS AT STANDARD CONDITIONS |
| APPROX | APPROXIMATE, APPROXIMATELY | FM | FACTORY MUTUAL | N/A | NOT APPLICABLE | SFU | SUPPLY FIXTURE UNITS |
| AVG | AVERAGE | FOG | FATS, OILS AND GREASES | N/C | NORMALLY CLOSED | SPEC | SPECIFICATION(S) |
| AW | ACID WASTE | FPM | FEET PER MINUTE | N/O | NORMALLY OPEN | SQ | SQUARE |
| BAS | BUILDING AUTOMATION SYSTEM | FPS | FEET PER SECOND | NG | NATURAL GAS | SQ FT | SQUARE FOOT (FEET) |
| BFF | BELOW FINISHED FLOOR | FT,' | FOOT (FEET) | NPCW | NON-POTABLE COLD WATER | SQ IN | SQUARE INCH(ES) |
| BFG | BELOW FINISHED GRADE | FUTR | FUTURE | NPHW | NON-POTABLE HOT WATER | SS | STAINLESS-STEEL |
| BHP | BRAKE HORSE POWER | GA | GAUGE | NPS | NOMINAL PIPE SIZE | ST | STORM |
| BTU | BRITISH THERMAL UNIT | GAL | GALLON(S) | NPT | NATIONAL PIPE THREAD TAPERED | STD | STANDARD |
| BTUH | BTU(S) PER HOUR | GALV | GALVANIZED | NTS | NOT TO SCALE | TEMP | TEMPERATURE |
| CA | COMPRESSED AIR | GPC | GALLONS PER CYCLE | OC | ON CENTER | TMV | THERMOSTATIC MIXING VALVE |
| CD | CONDENSATE | GPD | GALLONS PER DAY | OD | OUTSIDE DIAMETER | T-STAT | THERMOSTAT |
| CFM | CUBIC FEET PER MINUTE | GPH | GALLONS PER HOUR | OZ | OUNCE(S) | TYP | TYPICAL |
| CFS | CUBIC FEET PER SECOND | GPM | GALLONS PER MINUTE | PC | PLUMBING CONTRACTOR | UL | UNDERWRITERS LABORATORIES |
| CI | CAST-IRON | HB | HOSE BIBB | PCWS | PROCESS COLD WATER SUPPLY | (U)___ | UNDERGROUND PIPE - SPECIFY TYPE |
| CIP | CAST-IRON PIPE | HD | HUB DRAIN | PD | PRESSURE DROP | V | VOLTS |
| CKT | CIRCUIT | HDPE | HIGH DENSITY POLYETHYLENE | PDI | PLUMBING & DRAINAGE INSTITUTE | VFD | VARIABLE FREQUENCY DRIVE |
| CMPR | COMPRESSOR | HG | MERCURY | PE | POLYETHYLENE | VTR | VENT THROUGH ROOF |
| CO | CLEAN OUT | HP | HORSE POWER | PEX | CROSS-LINKED POLYETHYLENE | W | WATTS |
| COMB | COMBINATION | HR | HOUR | PHWR | PROCESS HOT WATER RETURN | WCO | WALL CLEANOUT |
| COND | CONDENS(-ER, -ING, -ATION) | HW | HOT WATER (DOMESTIC) | PHWS | PROCESS HOT WATER SUPPLY | W/ | WITH |
| CPVC | CHLORINATED PVC | HWR | HOT WATER RETURN (DOMESTIC) | PP | POLYPROPYLENE | W/O | WITHOUT |
| C-TO-C | CENTER TO CENTER | HYD | HYDRANT | PPM | PARTS PER MILLION | WG | WATER GAUGE |
| CU | COPPER | HZ | FREQUENCY IN HERTZ | PSI | POUNDS PER SQUARE INCH | YCO | YARD CLEANOUT |
| CU FT | CUBIC FOOT (FEET) | ID | INSIDE DIAMETER | PSIG | PSI GAUGE | | |
| CU IN | CUBIC INCH(ES) | IN, " | INCHES | PVC | POLYVINYL CHLORIDE | | |
| CW | COLD WATER (DOMESTIC) | INV | INVERT | PW | PROCESS WASTE | | |
| DEG-F, °F | DEGREES FAHRENHEIT | IPS | IRON PIPE SIZE | RECIRC | RECIRCULATE | | |
| DFU | DRAINAGE FIXTURE UNITS | KEC | KITCHEN EQUIPMENT CONTRACTOR | REQD | REQUIRED | | |
| DI | DUCTILE IRON | KW | KILOWATT | REV | REVOLUTION(S) | | |
| DIA, Ø | DIAMETER | LBS | POUNDS | RCVR | RECEIVER | | |
| DN | DOWN | LWT | LEAVING WATER TEMPERATURE | RO | REVERSE OSMOSIS (WATER) | | |
| EA | EACH | MAX | MAXIMUM | RPM | REVOLUTIONS PER MINUTE | | |
| EFF | EFFICIENCY | MBH | BTU PER HOUR (THOUSAND) | RPS | REVOLUTIONS PER SECOND | | |
| EL | ELEVATION | MCA | MINIMUM CIRCUIT AMPACITY | | | | |
| EMV | EMERGENCY MIXING VALVE | MEZZ | MEZZANINE | | | | |
| EWT | ENTERING WATER TEMPERATURE | MFS | MAXIMUM FUSE SIZE | | | | |
| | | MIN | MINIMUM | | | | |

# PLUMBING SYMBOLS

## LINETYPES

| | | | |
|---|---|---|---|
| | COLD WATER (DOMESTIC) | IW | INDIRECT WASTE |
| | HOT WATER (DOMESTIC) | IW | UNDERGROUND INDIRECT WASTE |
| | HOT WATER RETURN | SAN | SANITARY |
| P | PROCESS COLD WATER (POTABLE) | SAN | UNDERGROUND SANITARY |
| P | PROCESS HOT WATER (POTABLE) | FOG | FATS, OILS, & GREASE WASTE |
| P | PROCESS HOT WATER RETURN (POTABLE) | FOG | UNDERGROUND FATS, OILS, & GREASE WASTE |
| | PIPING WITH HEAT TRACE | ST | STORM |
| V | VENT (SANITARY) | ST | UNDERGROUND STORM |

## SYMBOLS

| | | | |
|---|---|---|---|
| BFP | BACKFLOW PREVENTER | | POINT OF CONNECTION |
| | BACKWATER VALVE | | POINT OF DISCONNECTION |
| | BALANCING VALVE | | PUMP |
| | CHECK VALVE - SWING | | PRESSURE GAUGE |
| | ELBOW UP/DOWN | | PRESSURE GAUGE W/ COIL SYPHON |
| | ELBOW UP/DOWN W/ VALVE IN DROP | | PRESSURE REGULATING VALVE |
| | END CAP | | SAFETY RELIEF VALVE |
| | FLANGE OR UNION CONNECTION | | SHUT-OFF VALVE |
| | FLEXIBLE CONNECTOR | | SOLENOID VALVE |
| CO | FLOOR CLEANOUT | | STRAINER - Y-PATTERN |
| FD | FLOOR DRAIN | | STRAINER - Y-PATTERN W/ DRAIN |
| | FLOOR SINK | | TEE UP/DOWN |
| | GLOBE VALVE | | TEE UP/DOWN W/ VALVE IN DROP |
| | HAMMER ARRESTER | | THERMOMETER |
| | HOSE BIBB/ WALL HYDRANT | | TRAP |
| | IMMERSION THERMOSTAT | | TRAP (RUNNING) |
| M | METER | | VALVE IN VALVE BOX |
| | MIXING VALVE | | |

# DRAWING INDEX


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|---|---|
| P001 | ABBREVIATIONS, GENERAL NOTES, AND SYMBOLS |
| P101 | PLUMBING DEMOLITION FLOOR PLANS |
| P201 | ENLARGED DRAIN, WASTE, AND VENT FLOOR PLANS |
| P202 | ENLARGED DOMESTIC WATER FLOOR PLAN |
| P301 | DWV AND DOMESTIC WATER ISOMETRICS |
| P501 | DETAILS |
| P801 | SCHEDULES |


# DESIGN INFORMATION

APPLICABLE CODES:
2017 FLORIDA PLUMBING CODE
2017 FLORIDA FUEL GAS CODE
2017 FLORIDA ENERGY CONSERVATION CODE

PROJECT DESIGN CONDITIONS:
AVAILABLE WATER PRESSURE: APPROX. 70 PSIG
HARDNESS: 65-80 PPM

UTILITY SERVICES CONTACT INFORMATION:
CITY OF BOCA RATON
UTILITY SERVICES
(561) 338-7300


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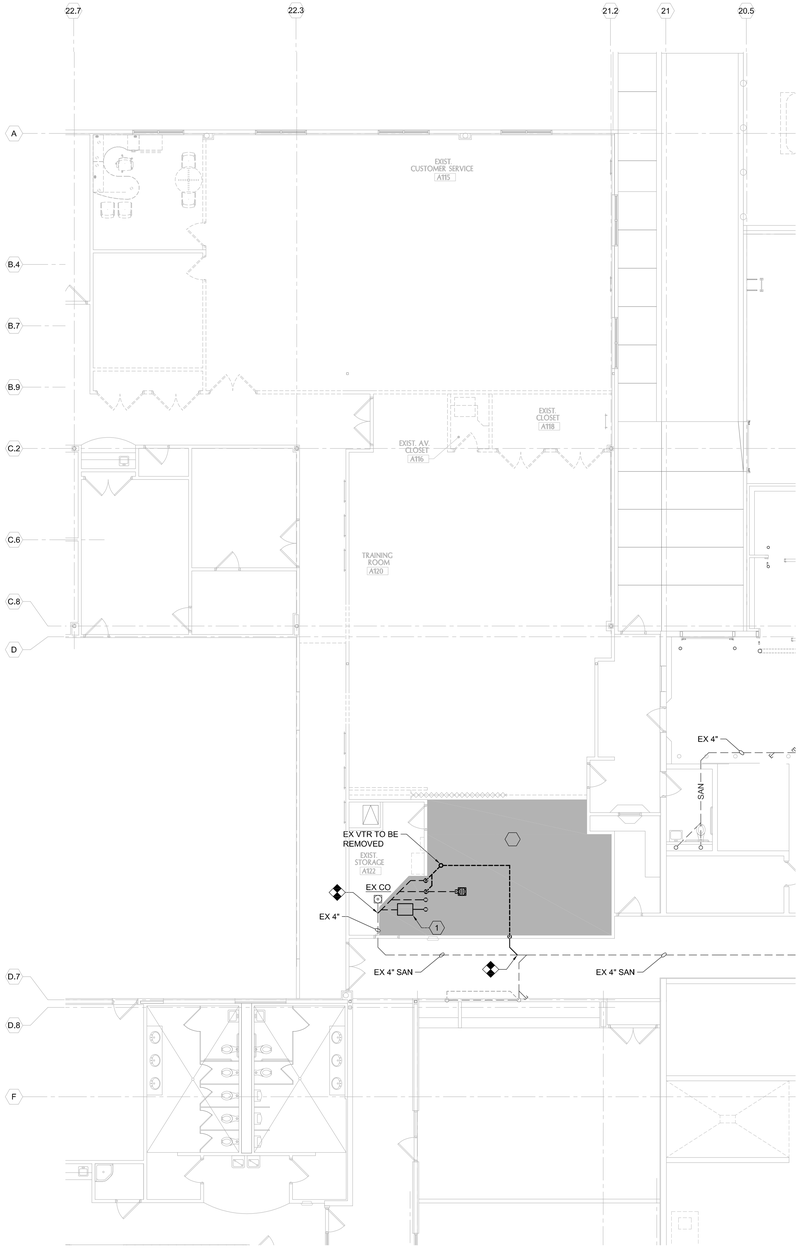
| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE
ABBREVIATIONS, GENERAL NOTES, AND SYMBOLS

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
P001

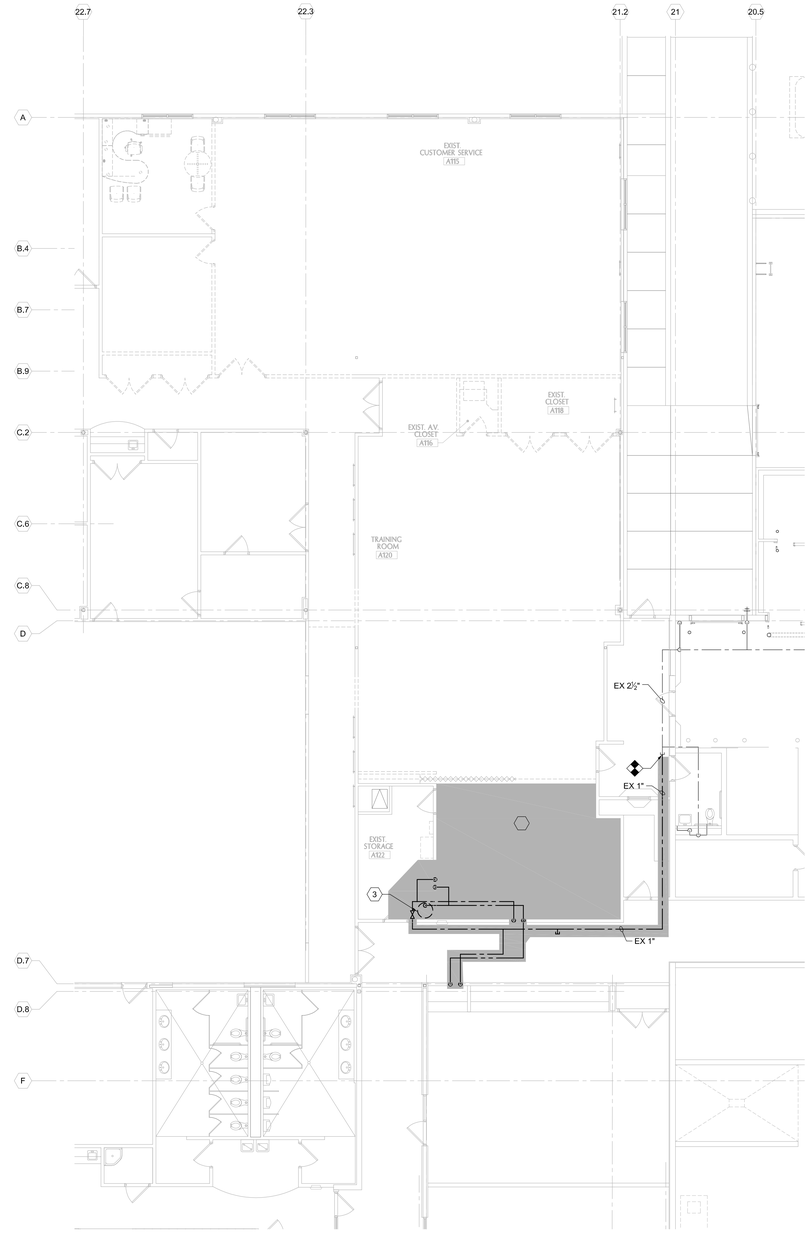
PLUMBING




NORTH

## ENLARGED DRAIN, WASTE, & VENT PLAN

1/8" = 1'-0"




NORTH

## ENLARGED DOMESTIC WATER PLAN

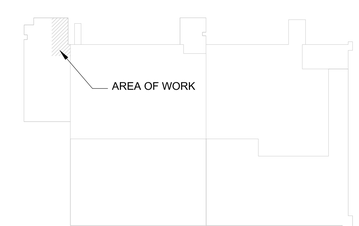
1/8" = 1'-0"

## GENERAL DEMOLITION NOTES

1. VERIFY FIELD CONDITIONS PRIOR TO BIDDING. PLANS MAY NOT INDICATE EACH DEVICE TO BE REMOVED, OR INDICATE NECESSARY RELOCATION OF EQUIPMENT OR PLUMBING SYSTEMS.
2. DISCONNECT, DEMOLISH, AND REMOVE PLUMBING SYSTEMS, EQUIPMENT AND COMPONENTS INDICATED TO BE REMOVED. DISPOSE OF DEMOLISHED EQUIPMENT AND MATERIALS IN COMPLIANCE WITH LOCAL AUTHORITIES HAVING JURISDICTION.
   - 2.1. PIPING TO BE REMOVED: REMOVE PORTION OF PIPING INDICATED TO BE REMOVED AND CAP OR PLUG REMAINING PIPING WITH SAME OR COMPATIBLE MATERIAL.
   - 2.2. PIPING TO BE ABANDONED IN PLACE: DRAIN PIPING AND CAP OR PLUG PIPING WITH SAME OR COMPATIBLE MATERIAL. PENETRATIONS THROUGH ROOF CONSTRUCTION SHALL BE INSULATED AND SEALED WEATHERTIGHT.
   - 2.3. EQUIPMENT TO BE REMOVED: DISCONNECT SERVICES AND REMOVE EQUIPMENT. REMOVE PIPING AND CAP OR PLUG AT MAIN WITH SAME OR COMPATIBLE MATERIAL.
   - 2.4. EQUIPMENT TO BE REPLACED: DISCONNECT SERVICES AND REMOVE EQUIPMENT. MODIFY EXISTING SERVICES AS NECESSARY TO ACCEPT NEW EQUIPMENT.
   - 2.5. EQUIPMENT TO BE RELOCATED: DISCONNECT SERVICES AND REMOVE, CLEAN AND STORE EQUIPMENT. REMOVE PIPING AND CAP OR PLUG AT MAIN WITH SAME OR COMPATIBLE MATERIAL. WHEN APPROPRIATE, REINSTALL, RECONNECT, AND MAKE EQUIPMENT OPERATIONAL.
   - 2.6. EQUIPMENT TO BE SALVAGED: DISCONNECT SERVICES AND REMOVE EQUIPMENT AND DELIVER TO OWNER. REMOVE PIPING AND CAP OR PLUG AT MAIN WITH SAME OR COMPATIBLE MATERIAL.
3. IF PIPING, INSULATION OR EQUIPMENT TO REMAIN IS DAMAGED IN APPEARANCE OR IS UNSERVICEABLE, REMOVE DAMAGED OR UNSERVICEABLE PORTIONS AND REPLACE WITH NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY.
4. REFER TO DRAWINGS OF OTHER DIVISIONS FOR ADDITIONAL DEMOLITION WORK.
5. COORDINATE INTERRUPTION OF EXISTING SERVICE(S) WITH THE OWNER AND GENERAL CONTRACTOR. DO NOT INTERRUPT SERVICE(S) TO FACILITIES OCCUPIED BY OWNER OR OTHERS WITHOUT WRITTEN PERMISSION FROM THE OWNER AND GENERAL CONTRACTOR.
6. CUTTING AND PATCHING BY THIS CONTRACTOR PER SPECIFICATIONS. COORDINATE WITH GENERAL CONTRACTOR.

## SHEET KEY NOTES

1. EXISTING GREASE TRAP TO BE REMOVED.
2. EXISTING KITCHEN AREA TO BE RENOVATED. ALL PLUMBING IN SHADED AREA TO BE REMOVED UNLESS OTHERWISE NOTED.
3. EXISTING WATER HEATER TO BE REMOVED.

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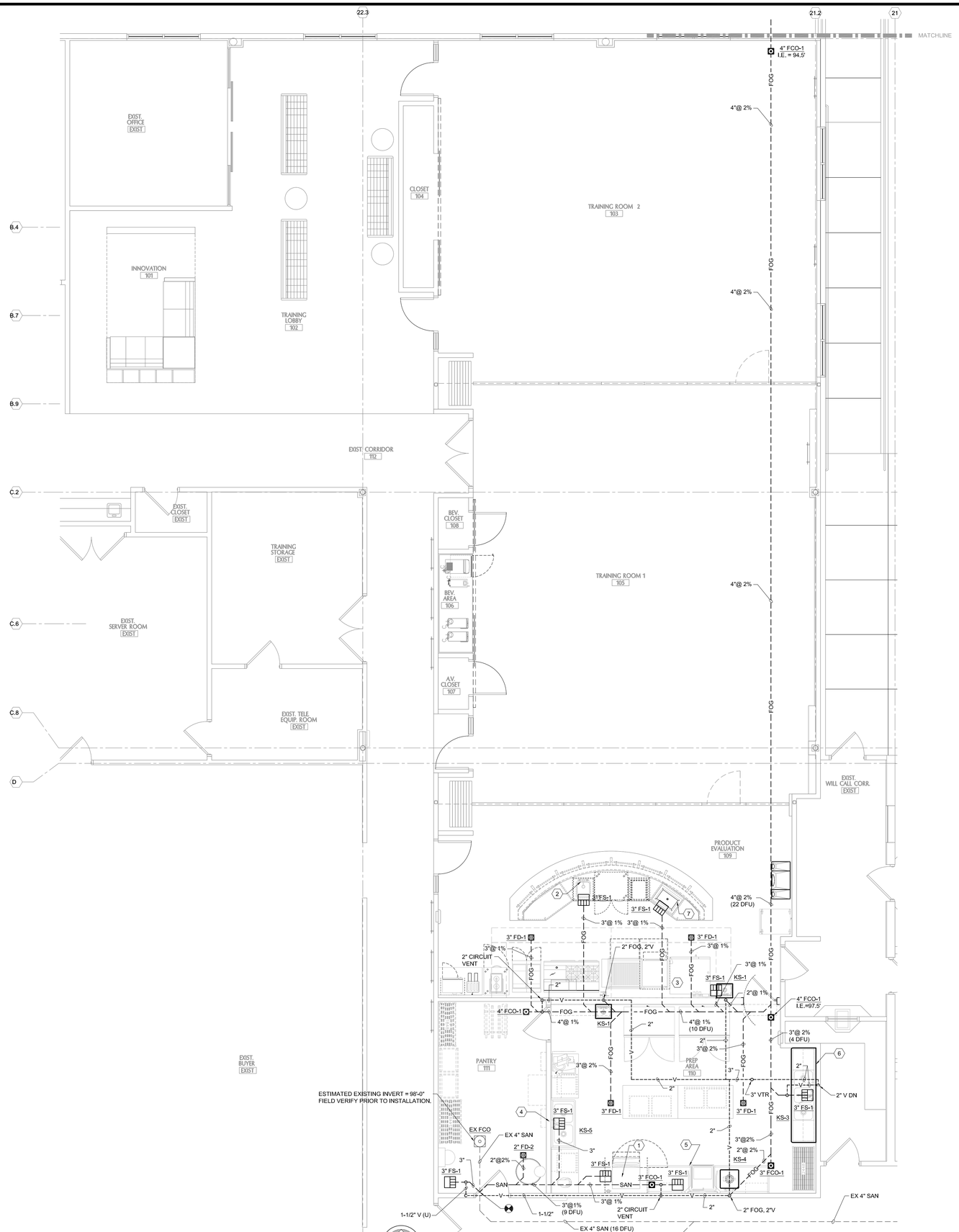
| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE
PLUMBING DEMOLITON FLOOR PLANS

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
P101

PLUMBING




## ENLARGED DRAIN, WASTE, & VENT PLAN

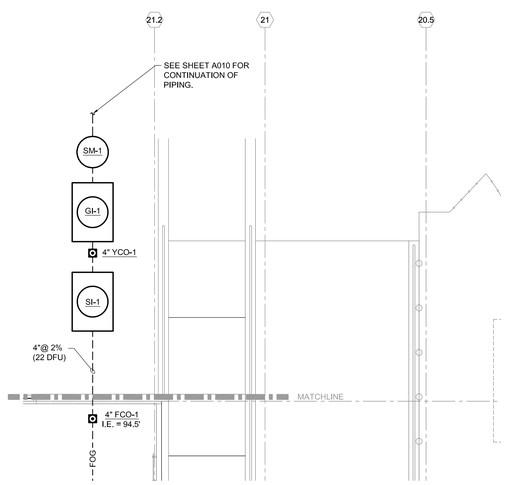
1/4" = 1'-0"

## SHEET GENERAL NOTES

1. SEE APPLICABLE NOTES ON SHEET P001.
2. KITCHEN EQUIPMENT FURNISHED BY OWNER UNLESS OTHERWISE NOTED. PROVIDE ALL APPURTENANCES AS NECESSARY FOR COMPLETE INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. CEILING SPACE IS LIMITED. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE ALL WORK PRIOR TO INSTALLATION.
4. INVERT ELEVATION REFERENCES ARCHITECTURAL FINISHED FLOOR OF 100'-0". INVERTS ARE APPROXIMATE. VERIFY PRIOR TO INSTALLATION.
5. CEILING SPACE SERVES AS A RETURN AIR PLENUM. ALL MATERIALS USED MUST MEET 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT RATING. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.

## SHEET KEY NOTES

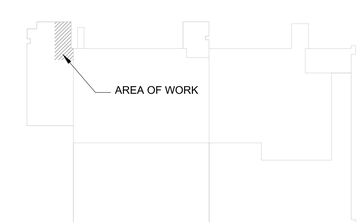
1. ROUTE 3/4" PVC INDIRECT WASTE FROM ICE MAKER TO FLOOR SINK. SEE DETAIL 14/P501.
2. ROUTE 1-1/2" PVC INDIRECT WASTE PIPE FROM PREP SINK TO FLOOR SINK. INSTALL OPEN SIDE OF FLOOR SINK BENEATH CABINET AND GRATE SIDE OUTSIDE THE CABINET. SEE DETAIL 7/P501.
3. ROUTE 1-1/2" COPPER INDIRECT WASTES FROM COMBI OVENS TO FLOOR SINK. SEE DETAIL 10/P501.
4. ROUTE 1-1/2" PVC INDIRECT WASTES FROM PREP SINK TO FLOOR SINK. SEE DETAIL 12/P501.
5. INSTALL DCV-1 AND TEMPERING SYSTEM AND ROUTE 1-1/2" PVC INDIRECT WASTE FROM DISHWASHER TO FLOOR SINK.
6. ROUTE 1-1/2" PVC INDIRECT WASTES FROM 3 COMPARTMENT SINK TO FLOOR SINK. SEE DETAIL 9/P501.
7. ROUTE 1-1/2" PVC INDIRECT WASTE FROM COLD WELL TO FLOOR SINK. INSTALL OPEN SIDE OF FLOOR SINK BENEATH CABINET AND GRATE SIDE OUTSIDE OF THE CABINET. SEE DETAIL 13/P501.




## ENLARGED DRAIN, WASTE, & VENT PLAN

1/4" = 1'-0"

NORTH

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| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE

ENLARGED DRAIN, WASTE, & VENT FLOOR PLANS

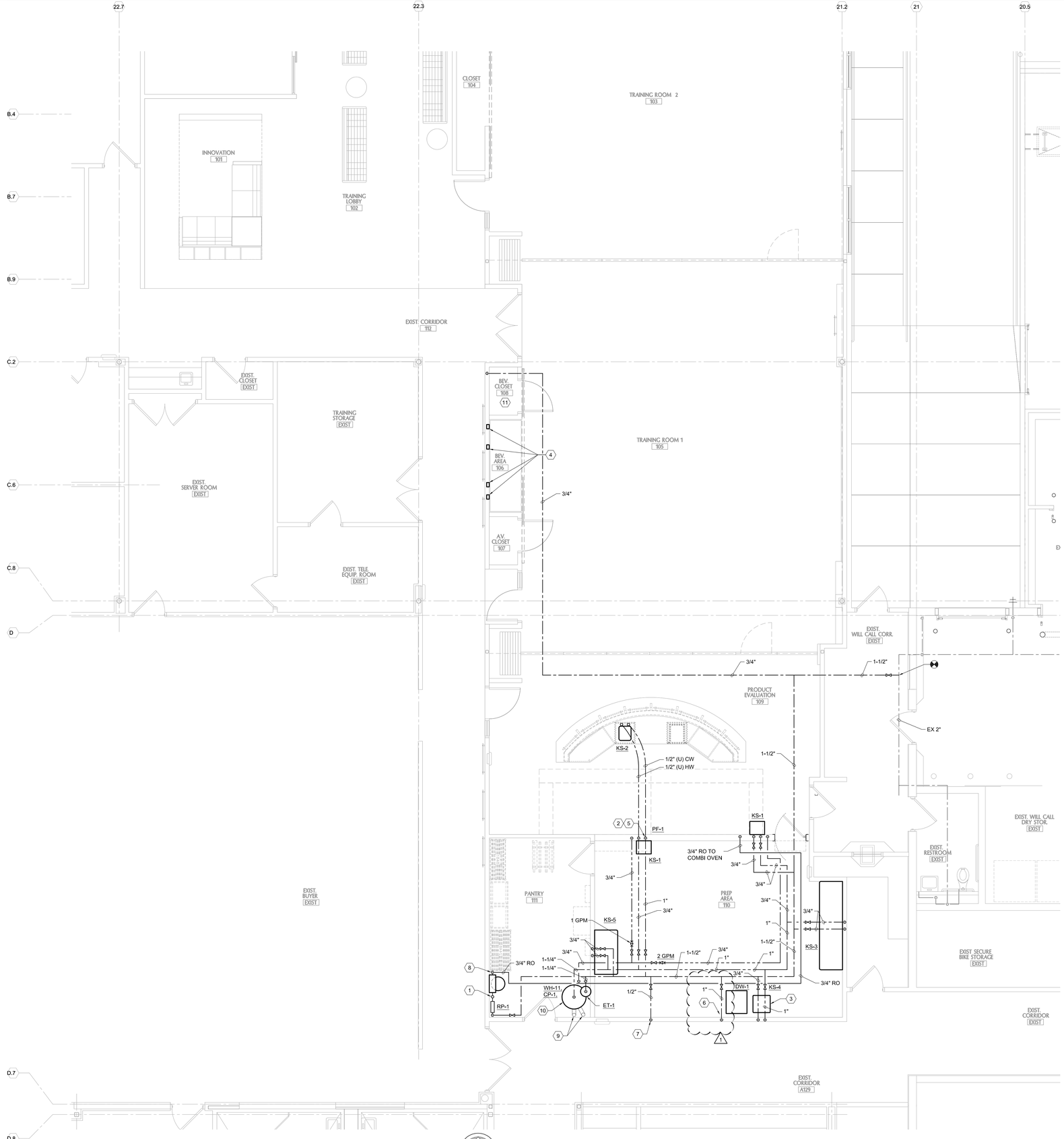
PRELIMINARY DWGS.

FINAL CONST. DWGS.

SHEET NUMBER

P201

PLUMBING




NORTH

## ENLARGED DOMESTIC WATER PLAN

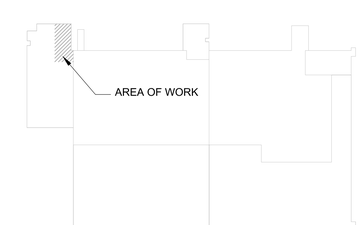
1/4" = 1'-0"

## SHEET GENERAL NOTES

1. SEE APPLICABLE NOTES ON SHEET P001.
2. KITCHEN EQUIPMENT FURNISHED BY OWNER UNLESS OTHERWISE NOTED. PROVIDE ALL APPURTENANCES AS NECESSARY FOR COMPLETE INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. CEILING SPACE IS LIMITED. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE ALL WORK PRIOR TO INSTALLATION.
4. CEILING SPACE SERVES AS A RETURN AIR PLENUM. ALL MATERIALS USED MUST MEET 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT RATING. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.

## SHEET KEY NOTES

1. 3/4" CW DOWN TO WATER TREATMENT SYSTEM TO SERVE COMBI OVENS. PROVIDE 3/4" RP-1 PRIOR TO WATER TREATMENT SYSTEM. INSTALL WATER TREATMENT SYSTEM, HYDRO PNEUMATIC TANK, AND PIPING KIT FURNISHED BY KITCHEN EQUIPMENT VENDOR. SEE DETAIL 11/P501.
2. SEE DETAIL 6/P501. CONNECT HOT WATER RETURN TO HOT WATER PIPING 12 INCHES ABOVE FINISHED FLOOR.
3. SEE DETAIL 4/P501.
4. OB-1. MOUNT BOTTOM OF OUTLET BOX AT 2" ABOVE TOP OF COUNTER. OUTLET BOX TO BE CONCEALED BEHIND BEVERAGE DISPENSER, COORDINATE BEVERAGE DISPENSER LOCATION WITH ARCHITECTURAL DRAWINGS.
5. 3/4" CW DOWN, 3/4" CW TO KS-1, 1/2" CW TO POT FILLER PROVIDED BY OWNER, INSTALLED BY PLUMBING CONTRACTOR, 1/2" CW & 1/2" HW TO KS-2 IN ISLAND. PROVIDE STAINLESS STEEL ESCUTCHEON AT PENETRATION OF BACK SUPPLY PLENUM.
6. PROVIDE 3/4" COLD WATER CONNECTION TO DISHWASHER. PROVIDE 3/4" COLD WATER TO 3/4" RP-1. INSTALL DRAIN TEMPERING KIT (FURNISHED BY OWNER) DOWNSTREAM OF 3/4" RP-1 ON DISHWASHER INDIRECT WASTE LINE. SEE DETAIL 16/P501.
7. INSTALL WATER FILTER ON WALL NEXT TO ICE MACHINE AND INSTALL 1/2" FILTERED WATER CONNECTION. SEE DETAIL 15/P501.
8. 3/4" RO WATER FROM WATER TREATMENT SYSTEM TO COMBI OVENS. PROVIDE STAINLESS STEEL PIPING WITH PRESS-FIT JOINTS AND STAINLESS STEEL VALVES FOR ALL REVERSE OSMOSIS WATER PIPING PER SPECIFICATION SECTION 221116..
9. 4" VENT AND FLUE FROM WATER HEATER UP TO CONCENTRIC VENT KIT. TERMINATE CONCENTRIC VENT KIT THRU ROOF. MAINTAIN A MINIMUM SEPARATION OF 15' BETWEEN KITCHEN MAKE UP AIR UNIT INTAKE AND CONCENTRIC VENT TERMINATION.
10. SEE DETAIL 5/P501.
11. SEE DETAIL 8/P501 FOR TYPICAL WATER FILTER ARRANGEMENT.

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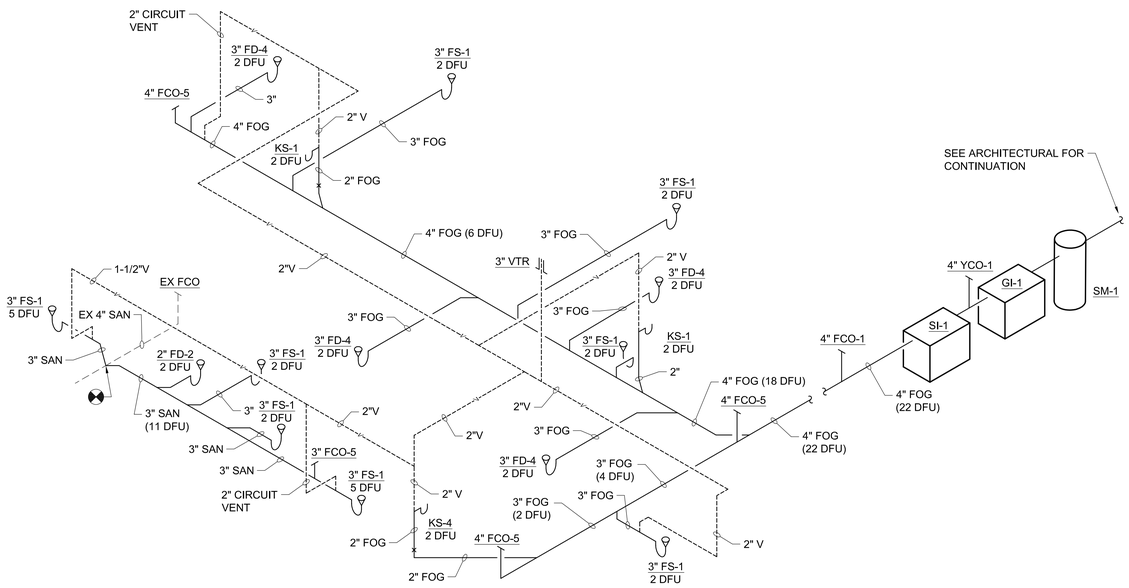
| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE
ENLARGED DOMESTIC WATER FLOOR PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
P202

PLUMBING




1 DRAIN, WASTE & VENT ISOMETRIC
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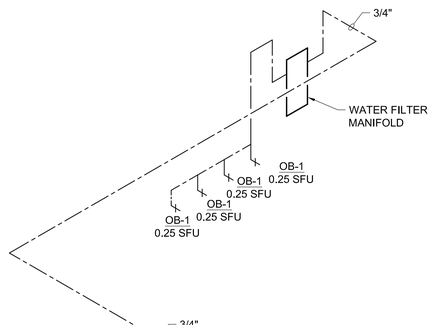


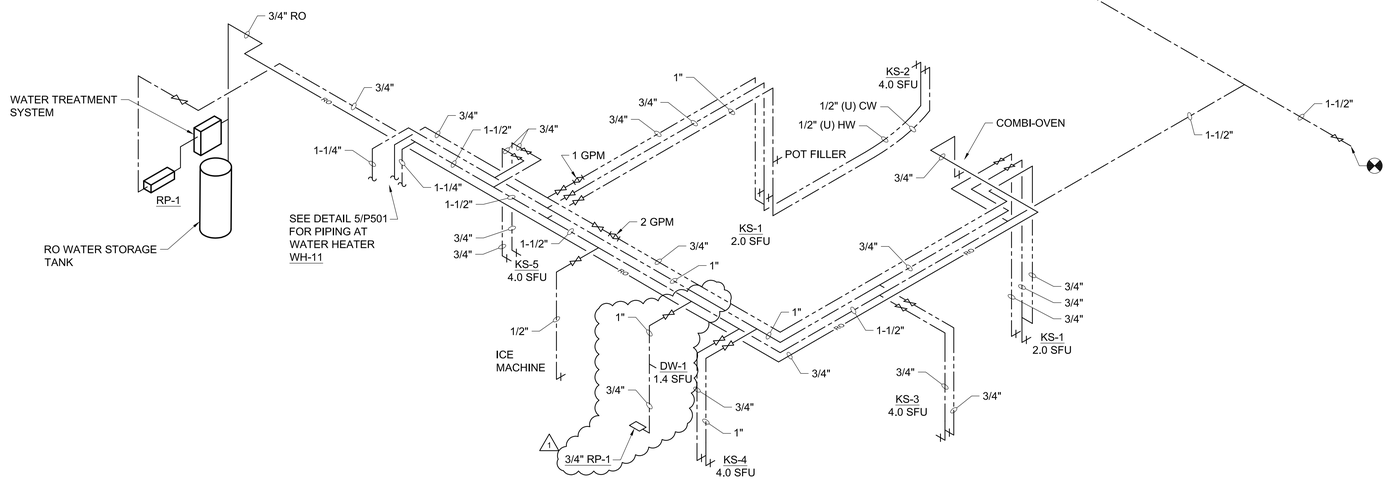


2 DOMESTIC WATER ISOMETRIC
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US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS
1 2/07/2020 – ADDENDUM #1
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| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: AMK | CHKD By: AMK |

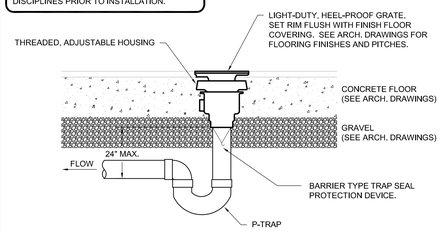
SHEET TITLE
DWV AND DOMESTIC WATER ISOMETRICS

PRELIMINARY DWGS.
FINAL CONST. DWGS.

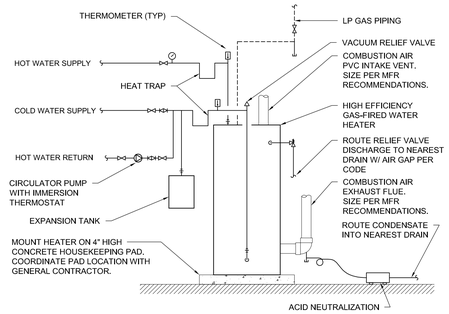
SHEET NUMBER
P301

PLUMBING

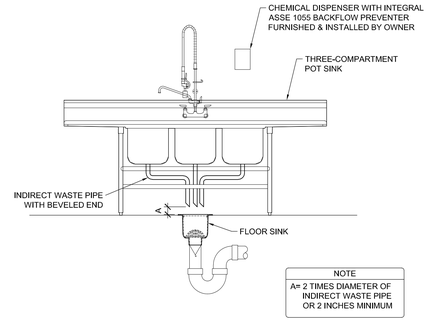
NOTE:
WHEN INDICATED ON PLANS, RIM ELEVATIONS ARE APPROXIMATE AND SHALL BE COORDINATED/VERIFIED WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.



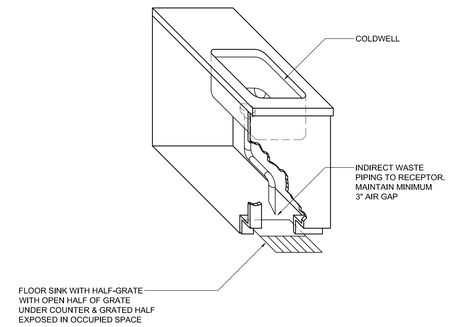

1 P501 TYPICAL FLOOR DRAIN
NOT TO SCALE



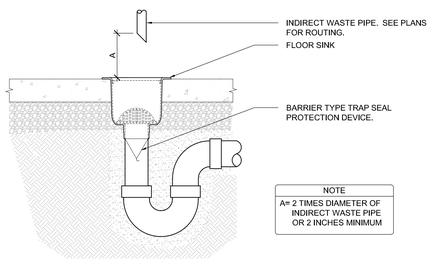

5 P501 TYPICAL FUEL-FIRED WATER HEATER
NOT TO SCALE



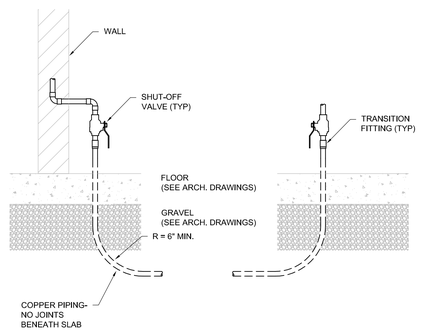

9 P501 3 COMPARTMENT POT SINK WITH INDIRECT WASTE
NOT TO SCALE



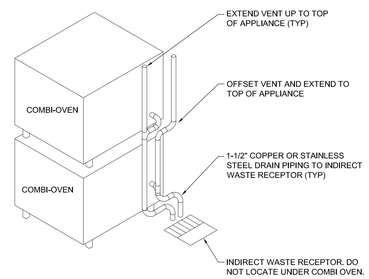

13 P501 COLD WELL INDIRECT WASTE PIPING
NOT TO SCALE



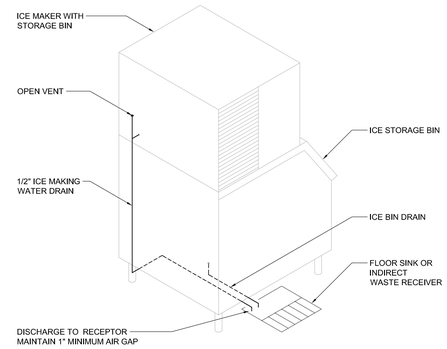

2 P501 TYPICAL FLOOR SINK
NOT TO SCALE



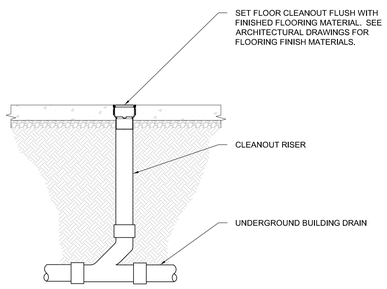

6 P501 PIPING TO ISLAND
NOT TO SCALE



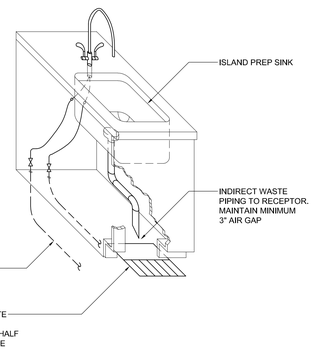

10 P501 COMBI OVEN INDIRECT WASTE PIPING
NOT TO SCALE




14 P501 ICE MAKER INDIRECT WASTE PIPING
NOT TO SCALE

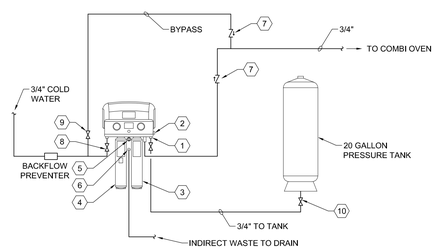



3 P501 TYPICAL FLOOR CLEANOUT
NOT TO SCALE

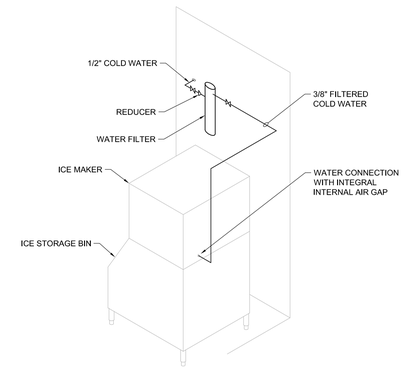



7 P501 ISLAND PREP SINK WITH INDIRECT DRAIN
NOT TO SCALE

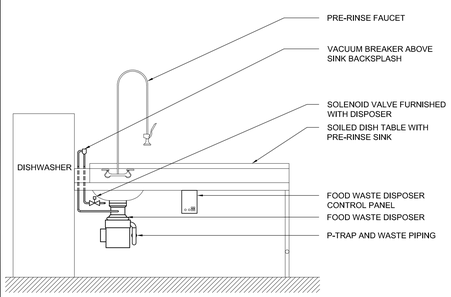
NOTES:
1. 1/2" OUTLET TO TANK.
2. RO SAMPLE VALVE
3. RO MEMBRANE
4. PRE-FILTER
5. PRE-FILTER SAMPLE VALVE.
6. 3/8" TUBE OUT TO DRAIN.
7. CHECK VALVE BY PLUMBING CONTRACTOR
8. INSTALLATION KIT SHUT-OFF VALVE
9. BY-PASS VALVE BY PLUMBING CONTRACTOR
10. TANK SHUT-OFF VALVE (PROVIDED BY MANUFACTURER, INSTALLED BY PLUMBING CONTRACTOR)



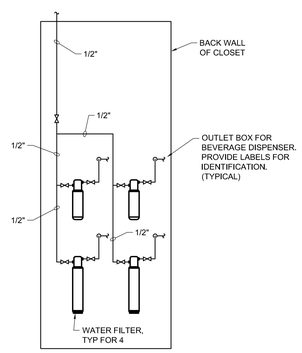

11 P501 COMBI OVEN RO SYSTEM PIPING
NOT TO SCALE



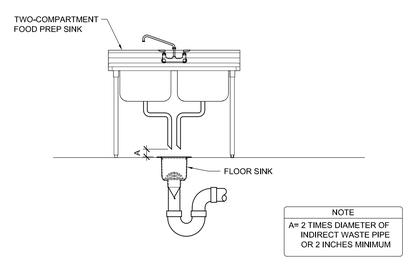

15 P501 ICE MAKER SUPPLY PIPING
NOT TO SCALE



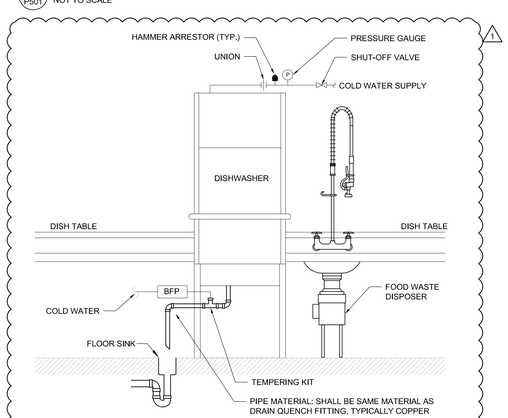

4 P501 TYPICAL PRE-RINSE SINK WITH DISPOSER
NOT TO SCALE




8 P501 WATER FILTER SCHEMATIC FOR BEVERAGE DISPENSERS
NOT TO SCALE




12 P501 TWO COMPARTMENT PIPE SINK
NOT TO SCALE




16 P501 COMMERCIAL DISHWASHER
NOT TO SCALE


ESI ARCHITECTURAL & ENGINEERING SERVICES INC.
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REVISIONS

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| DATE | JOB NO. |
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| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE
DETAILS

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
P501

PLUMBING

## GAS-FIRED WATER HEATER SCHEDULE

| TAG | BASIS-OF-DESIGN | TYPE | LOCATION | CAPACITY GAL | RECOVERY GPH | TEMP RISE DEG-F | FUEL GAS | | VENTING | | | ELECTRICAL DATA | | | | WEIGHT LBS | REFERENCE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | DEMAND CFH | INPUT BTUH | INLET NPS | OUTLET NPS | TYPE | VOLTS | PHASE | HERTZ | FLA | | |
| WH-11 | AO SMITH BTH-199 | HIGH EFFICIENCY STORAGE TANK | 111 | 100 | 294 | 80 | 199 | 199 | 4 | 4 | PVC | 120 | 1 | 60 | 5 | 1400 | 1, 2, 3 |

**SCHEDULE GENERAL NOTES:**
1. PROVIDE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTIONS 15486.
2. WEIGHTS ARE APPROXIMATE AND INCLUDE WEIGHT OF WATER.

**SCHEDULE REFERENCE NOTES:**
1. PROVIDE CONCENTRIC VENT KIT
2. PROVIDE CONDENSATE NEUTRALIZATION KIT.
3. PROVIDE UNIT CAPABLE OF OPERATING ON LP GAS.

## RECIRCULATING PUMP SCHEDULE

| TAG | BASIS-OF-DESIGN | TYPE | LOCATION | FLOW RATE GPM | HEAD FT | SUCTION SIZE INCHES | DISCHARGE SIZE INCHES | MOTOR WATTS | MOTOR RPM | ELECTRICAL DATA | | | | REFERENCE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | VOLTS | PHASE | HERTZ | FLA | |
| CP-1 | BELL & GOSSETT NBF-12 | LEAD-FREE BRONZE INLINE CIRCULATOR | 111 | 3 | 10 | 3/4 | 3/4 | 55 | 2800 | 120 | 1 | 60 | 0.48 | 1, 2 |

**SCHEDULE GENERAL NOTES:**
1. PROVIDE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTIONS 221123.

**SCHEDULE REFERENCE NOTES:**
1. PROVIDE UNIT WITH IMMERSION TYPE THERMOSTAT FOR CIRCULATOR PUMP CONTROL.
2. PROVIDE UNIT WITH ADJUSTABLE TIMER.

## EXPANSION TANK SCHEDULE

| TAG | BASIS-OF-DESIGN | TYPE | LOCATION | PRESSURE RATING PSIG | VOLUME GAL | ACCEPTANCE GAL | DIAMETER INCHES | HEIGHT INCHES | REFERENCE NOTES |
|---|---|---|---|---|---|---|---|---|---|
| ET-1 | WESSELS T-12 | DIAPHRAGM | 111 | 150 | 4.8 | 2.9 | 7.9 | 10.8 | - |

## PLUMBING FIXTURE SCHEDULE

| TAG | DESCRIPTION | FIXTURE DATA | | FAUCET / VALVE DATA | | FLOW RATE | MINIMUM RUNOUT SIZE | | | | REFERENCE NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BASIS-OF-DESIGN | MOUNTING | BASIS-OF-DESIGN | TYPE | | CW | HW | SAN | VENT | |
| D-1 | OWNER FURNISHED COMMERCIAL FOOD WASTE DISPOSER | INSINKERATOR SS-200 | #5 SINK FLANGE KIT | - | - | 5 GPM | 1/2 | - | 2 | 1 1/2 | 1 |
| KS-1 | OWNER FURNISHED STAINLESS STEEL HANDWASH SINK | ADVANCE TABCO 7-PS-68 | WALL-MOUNTING WITH CARRIER | INCLUDED WITH SINK | MANUAL, WRIST BLADE | 1.0 GPM | 1/2 | 1/2 | 2 | 1 1/2 | 2 |
| KS-2 | OWNER FURNISHED STAINLESS STEEL PREP SINK | ADVANCE TABCO CO-1416A-10RE | UNDER MOUNT | T&S BRASS B-1141-04-CR WITH B-0199-01-F15 AERATOR | MANUAL, WRIST BLADE | 1.5 GPM | 1/2 | 1/2 | 2 | 1 1/2 | 4, 5 |
| KS-3 | OWNER FURNISHED THREE COMPARTMENT STAINLESS STEEL POT SINK | ADVANCE TABCO 93-3-54-24RL | FLOOR MOUNTED FREESTANDING | T&S BRASS B-0133-12-CRB8P | MANUAL, LEVER W/ PRE-RINSE SPRAY | 1.07 GPM SPRAY | 3/4 | 3/4 | 3 | 1 1/2 | 3 |
| KS-4 | OWNER FURNISHED PRE-RINSE SINK IN SOILED DISH TABLE | FURNISHED BY OWNER INSTALLED BY PLUMBER | FLOOR | T&S BRASS B-0133-12-CRB8P | MANUAL, LEVER W/ PRE-RINSE SPRAY | 1.07 GPM SPRAY | 3/4 | 3/4 | 3 | 1 1/2 | |
| KS-5 | OWNER FURNISHED TWO COMPARTMENT STAINLESS STEEL PREP SINK | ADVANCE TABCO 93-22-40 | FLOOR MOUNTED FREESTANDING | T&S BRASS B-2463 WITH B-0199-01 AERATOR | MANUAL, WRIST BLADE | 2.2 GPM | 3/4 | 3/4 | 3 | 1 1/2 | 3 |
| PF-1 | OWNER FURNISHED POT FILLER | - | - | T&S BRASS B-0605 | MANUAL, WRIST BLADE | 3.06 GPM | 3/4 | - | - | - | |

**SCHEDULE GENERAL NOTES:**
1. PROVIDE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTIONS 224213, 224214, 224216, 224217, 224223, 224500, 224600, AND 224716.
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ACCESSIBLE FIXTURES. ADJUST MOUNTING HEIGHTS FOR WALL-MOUNTING FIXTURES AS NECESSARY.
3. PROVIDE FLOOR-MOUNTING FIXTURE CARRIERS FOR ALL WALL-MOUNTING FIXTURES.
4. PROVIDE ALL APPURTENANCES AS NECESSARY FOR COMPLETE INSTALLATION OF PLUMBING FIXTURES.
5. PROVIDE INSULATED COVERS FOR EXPOSED SUPPLIES AND TRAPS ON ACCESSIBLE FIXTURES.
6. ALL FIXTURES TO BE FURNISHED BY THE OWNER ARE TO BE INSTALLED BY THE PLUMBING CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUPPLIES, DRAINS, P-TRAPS, ETC. REQUIRED FOR COMPLETE INSTALLATION.

**SCHEDULE REFERENCE NOTES:**
1. UNIT FURNISHED WITH AQUA SAVER CONTROL CENTER AND LOW FLOW OPTION. ELECTRICAL CHARACTERISTICS 2HP AT 208V-3 PHASE.
2. PROVIDE TMV-1 SET TO 105 DEGREES-F.
3. INSTALL OWNER FURNISHED TWIST DRAIN AND PROVIDE INDIRECT WASTE PIPING FOR EACH COMPARTMENT TO FLOOR SINK.
4. PROVIDE TMV-1 SET TO 120 DEGREES-F.
5. PROVIDE GRID DRAIN AND INDIRECT WASTE PIPING TO FLOOR SINK.

## DRAINAGE SPECIALTIES SCHEDULE

| TAG | BASIS OF DESIGN | DESCRIPTION | REFERENCE NOTES |
|---|---|---|---|
| FCO-1 | SIOUX CHIEF 834 SERIES | PVC FLOOR CLEAN OUT WITH MEDIUM DUTY, SQUARE, STAINLESS STEEL TOP | |
| FD-1 | SIOUX CHIEF 833 SERIES | PVC FLOOR DRAIN WITH SQUARE, LIGHT DUTY, STAINLESS STEEL GRATE AND STRAINER. | 1, 2 |
| FS-1 | SIOUX CHIEF 861 SERIES | SQUARE, PVC FLOOR SINK WITH MEDIUM DUTY, STAINLESS STEEL HALF GRATE AND STAINLESS STEEL MESH DEBRIS BASKET | 1, 2 |
| GI-1 | SCHIER GB-75 | POLYETHYLENE GREASE INTERCEPTOR WITH H20 RATED, PICKABLE CAST IRON COVER | 3, 5 |
| SI-1 | SCHIER SI-75 | POLYETHYLENE SOLIDS INTERCEPTOR WITH H20 RATED, PICKABLE CAST IRON COVER | 3, 5 |
| SM-1 | SCHIER SV24-L | POLYETHYLENE WASTEWASTER SAMPLING PORT WITH H20 RATED PICKABLE CAST IRON COVER | 3, 4 |
| WCO | SIOUX CHIEF 873 SERIES | WALL CLEANOUT COVER PLATE | 6 |
| YCO-1 | SIOUX CHIEF 850 SERIES | HEAVY DUTY, CAST IRON CLEAN OUT COVER | 4 |

SCHEDULE GENERAL NOTES
1. REFER TO SPECIFICATION SECTION 221319 AND 221423.
2. COMPLY WITH MANUFACTURERS' RECOMMENDED INSTALLATION INSTRUCTIONS.

SCHEDULE REFERENCE NOTES
1. PROVIDE SEDIMENT BASKET.
2. PROVIDE BARRIER-TYPE, TRAP-SEAL PROTECTION DEVICE
3. PROVIDE EXTENSIONS AS NECESSARY FOR COVER TO BE FLUSH WITH SURROUNDING GRADE.
4. INSTALL IN A MINIMUM OF 24 INCH SQUARE CONCRETE PAD PER MANUFACTURERS RECOMMENDATIONS.
5. INSTALL COVER IN A MINIMUM OF 36 INCH SQUARE CONCRETE PAD.
6. PROVIDE MOUNTING SCREW OF NECESSARY LENGTH. MOUNTING SCREW SHALL NOT FULLY PENETRATE CLEANOUT PLUG.

## DOMESTIC WATER SPECIALTIES SCHEDULE

| TAG | BASIS OF DESIGN | DESCRIPTION | REFERENCE NOTES |
|---|---|---|---|
| DCV-1 | WATTS SD-2 | DUAL-CHECK BACKFLOW PREVENTER | 4 |
| OB-1 | SIOUX CHIEF 696 SERIES | ABS OUTLET BOX WITH SHUT-OFF VALVE | 1, 2 |
| PRV-1 | WATTS LF123LP | LEAD FREE BRONZE WATER PRESSURE REDUCING VALVE | |
| RP-1 | WATTS SS-009-QT-S | STAINLESS STEEL, REDUCED-PRESSURE-PRINCIPLE BACKFLOW PREVENTION ASSEMBLY WITH 1/4-TURN BALL VALVES AND STRAINER | 3, 4 |
| TMV-1 | POWERS LFe480 | INDIVIDUAL-FIXTURE, ADJUSTABLE THERMOSTATIC WATER TEMPERING VALVE | |
| WHA | SIOUX CHIEF HYDRARESTER | WATER HAMMER ARRESTER WITH COPPER TUBE AND PISTON | 5 |

SCHEDULE GENERAL NOTES
1. REFER TO SPECIFICATION SECTION 221119.
2. COMPLY WITH MANUFACTURERS' RECOMMENDED INSTALLATION INSTRUCTIONS.

SCHEDULE REFERENCE NOTES
1. PROVIDE DCV-1 ON OUTLET PRIOR TO CONNECTION TO BEVERAGE EQUIPMENT.
2. MOUNT OUTLET BOX 2 INCHES ABOVE COUNTER BACKSPLASH.
3. INSTALL UNIT WITH ORIENTATION PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH AHJ.
4. PROVIDE UNIT WITH AIR-GAP FITTING AND ROUTE INDIRECT DRAIN TO NEAREST RECEPTOR.
5. PROVIDE UNIT SIZES (AA, A, B, C, D, E, F) AS INDICATED IN ISOMETRICS.


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US FOODS

KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS
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| DATE | JOB NO. |
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| DWG By: AMK | CHKD By: AMK |

SHEET TITLE
SCHEDULES

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
P801

PLUMBING

# GENERAL NOTES

## GENERAL

A. Provide all materials and equipment and perform all labor required to install complete and operable mechanical systems as indicated on the drawings, as specified, and as required by authorities having jurisdiction.

B. Contract document drawings for mechanical work (HVAC and plumbing) are diagrammatic and are intended to convey scope and general arrangement only.

C. Install all mechanical equipment and appurtenances in accordance with manufacturers' recommendations, contract documents, and applicable codes and regulations.

D. Provide vibration isolation for all mechanical equipment to prevent transmission of vibration to building structure.

E. Provide vibration isolators for all piping supports connected to, and within 50 feet of, isolated equipment (except at base elbow supports and anchor points) throughout mechanical equipment rooms.

F. The location of existing underground utilities is shown in an approximate way only. The contractor shall determine the exact location of all existing utilities before commencing work. The contractor shall pay for and repair all damages caused by failure to exactly locate and preserve any and all underground utilities unless otherwise noted.

G. Coordinate construction of all mechanical work with architectural, structural, civil, electrical work, etc., shown on other contract document drawings.

H. All tests shall be completed before any mechanical equipment or piping insulation is applied.

I. Locate all temperature, pressure, and flow measuring devices in accessible locations with the straight section of pipe or duct up- and downstream as recommended by the manufacturer to ensure accuracy of measurements.

J. Testing, adjusting, and balancing agency shall be a member of the Associated Air Balance Council (AABC) or the National Environmental Balancing Bureau (NEBB). Testing, adjusting, and balancing shall be performed in accordance with the AABC standards.

K. Where two or more items of the same type of equipment are required, the product of one manufacturer shall be used.

L. Coordinate all equipment connections with manufacturers' certified drawings. Coordinate and provide all duct and piping transitions required for final equipment connections to furnished equipment. Field verify and coordinate all duct and piping dimensions before fabrication.

M. All control wire and conduit shall comply with the National Electric Code and Division 26 of the specification.

N. When mechanical work (HVAC, plumbing, sheet metal, etc.) is subcontracted, it shall be the mechanical contractor's responsibility to coordinate subcontractors and the associated contracts. When discrepancies arise pertaining to which contractor provides a particular item of the mechanical contract or which contractor provides final connections for a particular item of the mechanical contract, it shall be brought to the attention of the mechanical contractor, whose decision shall be final.

O. The locations of all items shown on the drawings or called for in the specifications that are not definitely fixed by dimensions are approximate only. The exact locations necessary to secure the best conditions and results must be determined by the project site conditions and shall have the approval of the engineer before being installed. Do not scale drawings.

P. All miscellaneous steel required to ensure proper installation and as shown in details for piping, ductwork, and equipment (unless otherwise noted) shall be furnished and installed by the mechanical contractor.

Q. Provide access panels for installation in walls and ceilings, where required, to service dampers, valves, smoke detectors, and other concealed mechanical equipment. Access panels shall be turned over to the general contractor for installation.

R. All equipment, piping, ductwork, etc., shall be supported as detailed, specified, and required to provide a vibration-free isolation.

S. All ductwork, piping, and equipment supported from structural steel shall be coordinate with the general contractor. All attachments to steel bar joists, trusses, or joist girders shall be at panel points. Provide beam clamps meeting MSS standards. Welding to structural members shall not be permitted.

T. Mechanical equipment, ductwork, and piping shall not be supported from a metal deck.

U. Locations and sizes of all floor, wall, and roof openings shall be coordinated with all other trades involved.

V. All openings in fire walls due to ductwork, piping, conduit, etc., shall be fire stopped with a product similar to 3M or an approved equal.

W. All air-conditioning condensate drain lines from each air handling unit and rooftop unit shall be piped full size of the unit drain outlet, with "P" trap, and piped to the nearest allowable drain in accordance with the authority having jurisdiction. See the details shown in the drawings or contract specifications for the depth of the air conditioning condensate trap.

X. Refer to typical details for ductwork, piping, and equipment installation.

## PIPING

A. Provide all materials and equipment and perform all labor required to install complete and operable piping systems as indicated on the drawings, and as specified and required by authorities having jurisdiction.

B. Elevations shown on the drawings are to the bottom of all pressure piping and to the invert of all gravity piping unless otherwise noted.

C. Unless otherwise noted, all piping is overhead, tight to the underside of the structure or slab, with space for insulation if required.

D. Install piping so all valves, strainers, unions, traps, flanges, and other appurtenances requiring access are accessible.

E. All valves shall be installed so that the valve remains in service when equipment or piping on the equipment side of the valve is removed.

F. All balancing valves and butterfly valves shall be provided with position indicators and the maximum adjustable stops (memory stops).

G. Unless otherwise noted, all valves (except control valves) and strainers shall be the full size of the pipe before reducing in size to make connections to equipment and controls.

H. Unions and/or flanges shall be installed at each piece of equipment, in bypasses, and in long piping runs (100 feet or more) to permit disassembly for alteration and repairs.

I. Install all piping without forcing or springing.

J. All piping shall clear doors and windows.

K. All valves shall be adjusted for smooth and easy operation.

L. All piping work shall be coordinate with all trades involved. Offsets in piping around obstructions shall be provided at no additional cost to the owner.

M. Provide flexible connections in all piping systems connected to pumps, chillers, cooling towers, and other equipment which require vibration isolation except water coils. Flexible connections shall be provided as close to the equipment as possible or as indicated on the drawings.

## HVAC/SHEET METAL

A. Provide all materials and equipment and perform all labor required to install complete and operable HVAC systems as indicated on the drawings, and as specified and required by authorities having jurisdiction.

B. Certain items such as rises and drops in ductwork, access doors, volume dampers, etc., are indicated on the contract document drawings for clarity for a specific location requirement and shall not be interpreted as the extent of the requirements for these items.

C. Unless otherwise shown, locate all room thermostats and humidistats 4'-0" (top of device) above the finished floor. Notify the engineer of any rooms where the preceding location cannot be maintained or where there is a question on location.

D. All ductwork shall clear doors and windows.

E. All ductwork dimensions, as shown on the drawings, are internal clear dimensions and duct size shall be increased to compensate for duct lining thickness.

F. Provide all 90-degree square elbows with double radius turning vanes unless otherwise indicated. Elbows in dishwasher, kitchen, and laundry exhausts shall be of unvaned, smooth radius construction with a radius equal to 1-1/2 times the width of the duct. Provide access doors upstream and downstream of all elbows with turning vanes.

G. Coordinate diffuser, register, and grille locations with architectural reflected ceiling plans, lighting, and other ceiling items and make minor duct modifications to suit.

H. All air handling units shall operate without moisture carryover.

I. Locate all mechanical equipment (single duct, dual duct, variable volume, constant volume, and fan-powered boxes; fan-coil units; cabinet heaters; unit heaters; unit ventilators; coils; steam humidifiers; etc.) for unobstructed access to unit access panels, controls, and valving.

J. Provide flexible connections in all ductwork systems (supply, return, and exhaust) connected to air handling units, fans, and other equipment that require vibration isolation. Flexible connections shall be provided at the point of connection to the equipment unless otherwise indicated.

K. Unless otherwise noted, all ductwork is overhead, tight to the underside of the structure, with space for insulation if required.

L. Runs of flexible duct shall not exceed 5 feet in length.

M. All ductwork shall be coordinated with all trades involved. Offsets in ducts, including divided ducts and transitions around obstructions, shall be provided at no additional cost to the owner.

N. Provide access doors in ductwork to provide access for all smoke detectors, fire dampers, smoke dampers, volume dampers, humidifiers, coils, and other items located in the ductwork that require service and/or inspection.

O. Provide access doors in ductwork for the operation, adjustment, and maintenance of all fans, valves, and mechanical equipment.

P. All ducts shall be grounded across flexible connections with flexible copper grounding straps. Grounding straps shall be bolted or soldered to both the equipment and the duct.

Q. Smoke detectors shall be furnished and wired by the electrical contractor. The mechanical contractor shall be responsible for mounting the smoke detector in ductwork as shown on the drawings and in accordance with the manufacturer's printed instructions.

R. Terminate gas vents for unit heaters, water heaters, high-pressure parts washers, high-pressure cleaners, and other gas appliances a minimum of 30 inches above the roof with rain cap.

S. See specifications for ductwork gauges, bracing, hangers, and other requirements.

# ABBREVIATIONS

| | | | |
|---|---|---|---|
| AFF | ABOVE FINISHED FLOOR | LWT | LEAVING WATER TEMPERATURE |
| AFG | ABOVE FINISHED GRADE | MAX | MAXIMUM |
| APPROX | APPROXIMATE, APPROXIMATELY | MBH | BTU PER HOUR (THOUSAND) |
| BAS | BUILDING AUTOMATION SYSTEM | MCA | MINIMUM CIRCUIT AMPACITY |
| BFF | BELOW FINISHED FLOOR | MEZZ | MEZZANINE |
| BFG | BELOW FINISHED GRADE | MFS | MAXIMUM FUSE SIZE |
| BHP | BRAKE HORSE POWER | MIN | MINIMUM |
| BTU | BRITISH THERMAL UNIT | MISC | MISCELLANEOUS |
| BTUH | BTU PER HOUR | MOP, MOCP | MAXIMUM OVER CURRENT PROTECTION |
| CA | COMPRESSED AIR | MTR | MOTOR |
| CFH | CUBIC FEET PER HOUR | N/A | NOT APPLICABLE |
| CFM | CUBIC FEET PER MINUTE | N/C | NORMALLY CLOSED |
| CI | CAST IRON | N/O | NORMALLY OPEN |
| CPVC | CHORINATED POLYVINYL CHLORIDE | NG | NATURAL GAS |
| CU FT | CUBIC FEET | NTS | NOT TO SCALE |
| CU IN | CUBIC INCH | OC | ON CENTER |
| DEG, ° | DEGREES | OD | OUTSIDE DIAMETER |
| DIA, Ø | DIAMETER | PSI | POUNDS PER SQUARE INCH |
| DN | DOWN | PSIG | PSI GAUGE |
| EA | EACH | POC | POINT OF CONNECTION |
| EL | ELEVATION | POD | POINT OF DISCONNECTION |
| ESP | EXTERNAL STATIC PRESSURE | PVC | POLYVINYL CHLORIDE |
| EWT | ENTERING WATER TEMPERATURE | REQD | REQUIRED |
| FLA | FULL LOAD AMPERES | RPM | REVOLUTIONS PER MINUTE |
| FT,' | FEET | SENS | SENSIBLE |
| FPM | FEET PER MINUTE | SPEC | SPECIFICATION |
| FPS | FEET PER SECOND | SQ FT | SQUARE FEET |
| GA | GAUGE | SQ IN | SQUARE INCHES |
| GAL | GALLON | SS | STAINLESS STEEL |
| GALV | GALVANIZED | STD | STANDARD |
| GPD | GALLONS PER DAY | TEMP | TEMPERATURE |
| GPH | GALLONS PER HOUR | T-STAT | THERMOSTAT |
| GPM | GALLONS PER MINUTE | TYP | TYPICAL |
| HG | MERCURY | V | VOLTS |
| HP | HORSE POWER | VFD | VARIABLE FREQUENCY DRIVE |
| HR | HOUR | W | WATTS |
| HZ | HERTZ | WG | WATER GAUGE |
| ID | INSIDE DIAMETER | W/ | WITH |
| IN, " | INCHES | W/O | WITHOUT |
| KW | KILOWATT | | |
| LBS | POUNDS | | |

# MECHANICAL SYMBOLS

## LINETYPES

LP — LIQUID PROPANE GAS

## SYMBOLS

| | | | |
|---|---|---|---|
| | BALANCING VALVE | | PUMP |
| | CHECK VALVE - SWING | | PRESSURE GAUGE |
| | ELBOW UP/DOWN | | PRESSURE GAUGE W/ COIL SYPHON |
| | ELBOW UP/DOWN W/ VALVE IN DROP | | PRESSURE REGULATING VALVE |
| | END CAP | | SAFETY RELIEF VALVE |
| | FLANGE OR UNION CONNECTION | | SHUT-OFF VALVE |
| | FLEXIBLE CONNECTOR | | SOLENOID VALVE |
| | GLOBE VALVE | | STRAINER - Y-PATTERN |
| | IMMERSION THERMOSTAT | | STRAINER - Y-PATTERN W/ DRAIN |
| | METER | | TEE UP/DOWN |
| | MIXING VALVE | | TEE UP/DOWN W/ VALVE IN DROP |
| | POINT OF CONNECTION | | THERMOMETER |
| | POINT OF DISCONNECTION | | TRAP (RUNNING) |

# HVAC SYMBOLS

| TWO LINE | | SINGLE LINE |
|---|---|---|
| AP | ACCESS PANEL | AP |
| | ELBOW, RADIUS | |
| | ELBOW W/VANES | |
| | FLEXIBLE DUCT | |
| | MANUAL BALANCING DAMPER | |
| | REDUCER | |
| | RETURN/EXHAUST, UP/DN | |
| | ROUND RETURN/EXHAUST, UP/DN | |
| | ROUND SUPPLY/INTAKE, UP/DN | |
| | SUPPLY/INTAKE, UP/DN | |
| | TAKE-OFF | |

## SYMBOLS

| | | | |
|---|---|---|---|
| B | DAMPER - BYPASS | H (TAG) | HUMIDISTAT |
| F | DAMPER - FIRE | CO2 (TAG) | SENSOR - CARBON DIOXIDE |
| FS | DAMPER - FIRE/SMOKE | C (TAG) | SENSOR - CARBON MONOXIDE |
| M | DAMPER - MOTORIZED | DP (TAG) | SENSOR - DEWPOINT |
| S | DAMPER - SMOKE | H2 (TAG) | SENSOR - HYDROGEN |
| | FLOW ARROW | PD (TAG) | SENSOR - PRESSURE DIFFERENTIAL |
| DG | DOOR GRILLE | RH (TAG) | SENSOR - RELATIVE HUMIDITY |
| UC | DOOR UNDERCUT | RT (TAG) | SENSOR - ROOM TEMPERATURE |
| | POINT OF CONNECTION | S (TAG) | SENSOR (W/ EQUIPMENT TAG) |
| | POINT OF DISCONNECTION | SD | SMOKE DETECTOR |
| | | T (TAG) | THERMOSTAT (W/ EQUPMENT TAG) |

# DRAWING INDEX


| | |
|---|---|
| H001 | ABBREVIATIONS, GENERAL NOTES, AND SYMBOLS |
| H101 | HVAC DEMOLITION FLOOR PLAN |
| H201 | ENLARGED HVAC FLOOR PLAN |
| H202 | HVAC PIPING PLAN |
| H501 | DETAILS |
| H801 | SCHEDULES |


# DESIGN INFORMATION

APPLICABLE CODES:
2017 FLORIDA MECHANICAL CODE
2017 FLORIDA FUEL GAS CODE
2017 FLORIDA ENERGY CONSERVATION CODE

PROJECT DESIGN CONDITIONS:
2017 ASHRAE FUNDAMENTALS
LOCATION PALM BEACH INTERNATIONAL, FLORIDA
COOLING OADB 91.7°F
COOLING OAWB 77.7°F
HEATING OADB 44.5°F

ROOM DESIGN CONDITIONS:
OFFICE
COOLING 75°F
COOLING 50% RH
HEATING 70°F


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| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE
ABBREVIATIONS, GENERAL NOTES, AND SYMBOLS

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
H001

HVAC

## HVAC DEMOLITION FLOOR PLAN

1/8" = 1'-0"

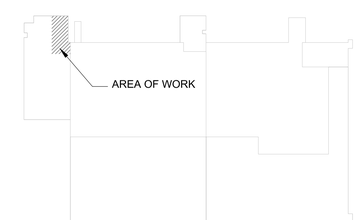
NORTH

## GENERAL DEMOLITION NOTES

1. VERIFY FIELD CONDITIONS PRIOR TO BIDDING. PLANS MAY NOT INDICATE EACH DEVICE TO BE REMOVED, OR INDICATE NECESSARY RELOCATION OF EQUIPMENT OR HVAC SYSTEMS.
2. DISCONNECT, DEMOLISH, AND REMOVE MECHANICAL SYSTEMS, EQUIPMENT AND COMPONENTS INDICATED TO BE REMOVED. DISPOSE OF DEMOLISHED EQUIPMENT AND MATERIALS IN COMPLIANCE WITH LOCAL AUTHORITIES HAVING JURISDICTION.
   - 2.1. PIPING/DUCTWORK TO BE REMOVED: REMOVE PORTION OF PIPING/DUCTWORK INDICATED TO BE REMOVED AND CAP OR PLUG REMAINING PIPING/DUCTWORK WITH SAME OR COMPATIBLE MATERIAL.
   - 2.2. PIPING TO BE ABANDONED IN PLACE: DRAIN PIPING/DUCTWORK AND CAP OR PLUG PIPING/DUCTWORK WITH SAME OR COMPATIBLE MATERIAL. PENETRATIONS THROUGH ROOF CONSTRUCTION SHALL BE INSULATED AND SEALED WEATHERTIGHT.
   - 2.3. EQUIPMENT TO BE REMOVED: DISCONNECT SERVICES AND REMOVE EQUIPMENT. REMOVE PIPING/DUCTWORK AND CAP OR PLUG AT MAIN WITH SAME OR COMPATIBLE MATERIAL.
   - 2.4. EQUIPMENT TO BE REPLACED: DISCONNECT SERVICES AND REMOVE EQUIPMENT. MODIFY EXISTING SERVICES AS NECESSARY TO ACCEPT NEW EQUIPMENT.
   - 2.5. EQUIPMENT TO BE RELOCATED: DISCONNECT SERVICES AND REMOVE, CLEAN AND STORE EQUIPMENT. REMOVE PIPING/DUCTWORK AND CAP OR PLUG AT MAIN WITH SAME OR COMPATIBLE PIPING MATERIAL. WHEN APPROPRIATE, REINSTALL, RECONNECT, AND MAKE EQUIPMENT OPERATIONAL.
   - 2.6. EQUIPMENT TO BE SALVAGED: DISCONNECT SERVICES AND REMOVE EQUIPMENT AND DELIVER TO OWNER. REMOVE PIPING/DUCTWORK AND CAP OR PLUG AT MAIN WITH SAME OR COMPATIBLE MATERIAL.
3. IF PIPING/DUCTWORK, INSULATION OR EQUIPMENT TO REMAIN IS DAMAGED IN APPEARANCE OR IS UNSERVICEABLE, REMOVE DAMAGED OR UNSERVICEABLE PORTIONS AND REPLACE WITH NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY.
4. REFER TO DRAWINGS OF OTHER DIVISIONS FOR ADDITIONAL DEMOLITION WORK.
5. COORDINATE INTERRUPTION OF EXISTING SERVICE(S) WITH THE OWNER AND GENERAL CONTRACTOR. DO NOT INTERRUPT SERVICE(S) TO FACILITIES OCCUPIED BY OWNER OR OTHERS WITHOUT WRITTEN PERMISSION FROM THE OWNER AND GENERAL CONTRACTOR.
6. PROVIDE ALL CUTTING AND PATCHING AS NECESSARY. INSULATE, CAP, AND SEAL EXTERIOR ROOF AND WALL PENETRATIONS TO BE WEATHER-TIGHT. REFER TO SPECIFICATIONS FOR ADDITIONAL CUTTING AND PATCHING REQUIREMENTS.

## SHEET KEYNOTES

1. EXISTING SUPPLY FAN TO BE REMOVED. INSULATE EXISTING ROOF CURB TO MATCH SURROUNDING ROOF INSULATION AND CAP IN A WATER-TITE MANNER.
2. EXISTING EXHAUST FAN TO BE REMOVED. REMOVE EXISTING ROOF CURB AND MAKE READY FOR INSTALLATION OF NEW ROOF CURB AND KITCHEN EXHAUST FAN.
3. EXISTING KITCHEN HOOD TO BE REMOVED.
4. EXISTING ROOF TOP UNIT, ASSOCIATED DUCTWORK, AND APPURTENANCES TO BE REMOVED.
5. EXISTING RETURN GRILLE AND ANY ASSOCIATED DUCTWORK TO BE REMOVED.

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| DATE | JOB NO. |
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| 1-6-20 | 50-1414-19 |
| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE

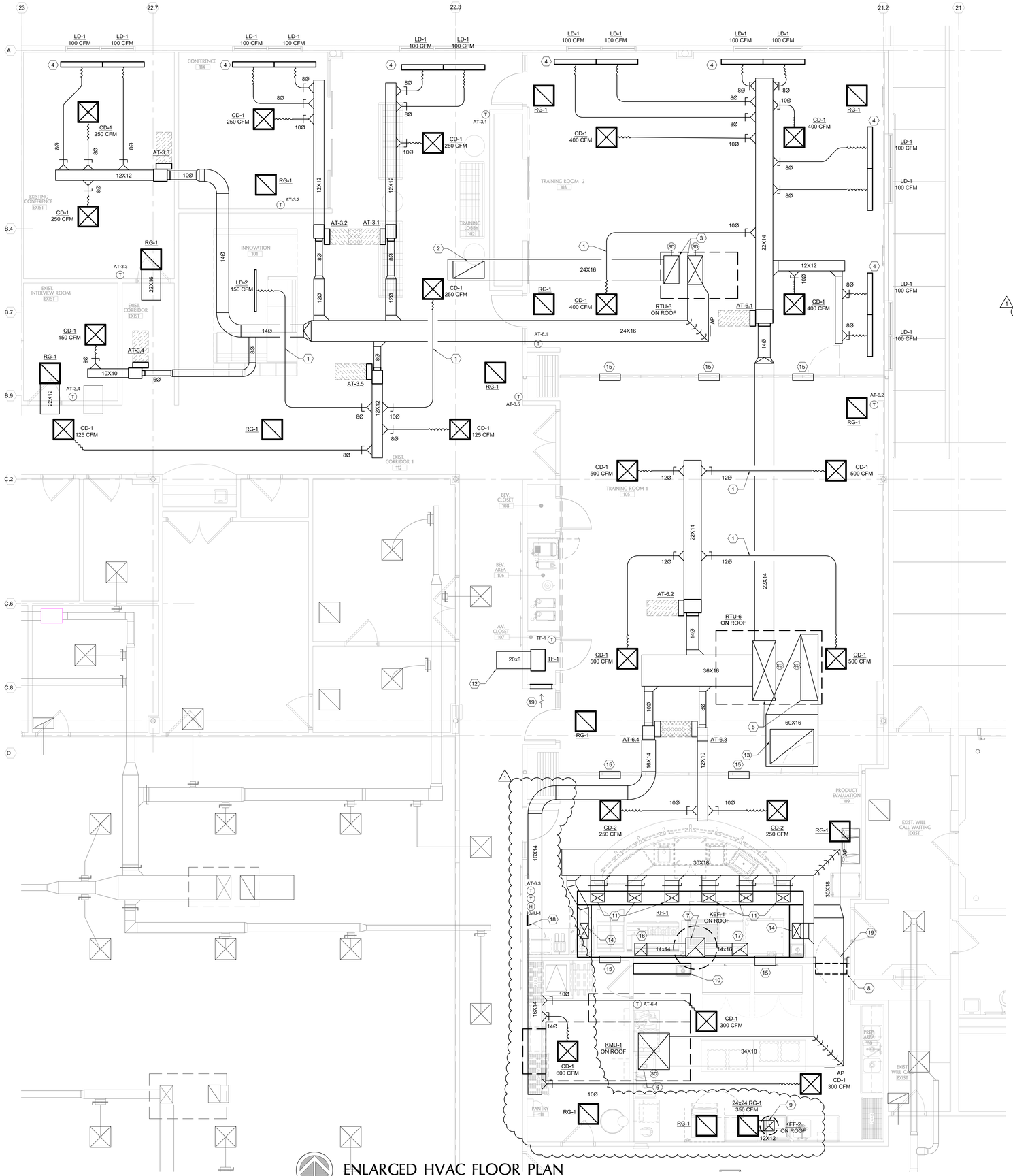
HVAC DEMOLITION FLOOR PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER

H101

HVAC




## ENLARGED HVAC FLOOR PLAN

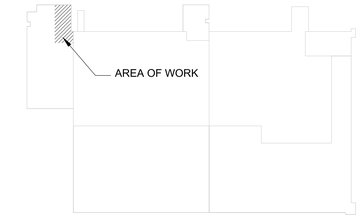
1/4" = 1'-0"

## SHEET GENERAL NOTES

1. SEE APPLICABLE NOTES ON SHEET h001.
2. KITCHEN EQUIPMENT FURNISHED BY OWNER UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE PITCHED, SLOPE TOWARD HOOD.
4. APPLY FIRE-RATED INSULATION SYSTEM ON ENTIRE DUCT FROM HOOD KH-1, TO ASSOCIATED EXHAUST FAN.
5. CEILING SPACES ABOVE OFFICE AREAS TO BE USED AS A RETURN AIR PLENUM.

## # KEY NOTES

1. DUCT SHALL TRAVEL IN JOIST SPACE OVER SUPPLY MAIN. FIELD VERIFY EXISTING CONDITIONS.
2. 36X20 RETURN OPENING IN TOP OF DUCT.
3. 18x32 SUPPLY AND 18x32 RETURN UP TO ROOF TOP UNIT. INSTALL DUCT SMOKE DETECTOR FURNISHED BY ELECTRICAL CONTRACTOR AND PROVIDE WIRING TO SHUTDOWN UNIT. WIRING TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
4. DIRECT SLOT DIFFUSERS TO WASH WINDOW SURFACE.
5. 26x68 SUPPLY AND 20x76 RETURN UP TO ROOF TOP UNIT. INSTALL DUCT SMOKE DETECTOR FURNISHED BY ELECTRICAL CONTRACTOR AND PROVIDE WIRING TO SHUTDOWN UNIT. WIRING TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
6. 36x42 SUPPLY UP TO KITCHEN MAKE-UP AIR UNIT. SEE DETAIL 3/H501. INSTALL DUCT SMOKE DETECTOR FURNISHED BY ELECTRICAL CONTRACTOR AND PROVIDE WIRING TO SHUTDOWN UNIT. WIRING TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
7. 22x22 EXHAUST UP TO EXHAUST FAN ON ROOF. SEE DETAIL 1/H501.
8. VARIFLOW CONTROL CABINET.
9. 12x12 EXHAUST UP TO EXHAUST FAN ON ROOF. SEE DETAIL 4/H501.
10. FIRE SUPPRESSION CABINET.
11. 16x10 SUPPLY CONNECTION TO PLENUM. TYPICAL OF 6 (585 CFM).
12. TF-1: EXHAUST FAN TO DISCHARGE TO PLENUM SPACE.
13. 50x40 RETURN OPENING IN TOP OF RETURN DUCT.
14. 18x10 SUPPLY CONNECTION TO PLENUM. TYPICAL OF 2 (650 CFM).
15. 24x24 TRANSFER OPENING ABOVE LAY-IN CEILING.
16. 14x14 EXHAUST CONNECTION TO KITCHEN HOOD.
17. 16x14 EXHAUST CONNECTION TO KITCHEN HOOD.
18. TOUCH SCREEN CONTROL PANEL FOR KITCHEN VENTILATION SYSTEM.
19. THROUGH WALL TRANSFER SLEEVE. PROVIDE 12x36 RG-2 ON EACH SIDE OF TRANSFER OPENING.




## KEY PLAN

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| DATE | JOB NO. |
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| 1-6-20 | 50-1414-19 |
| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE

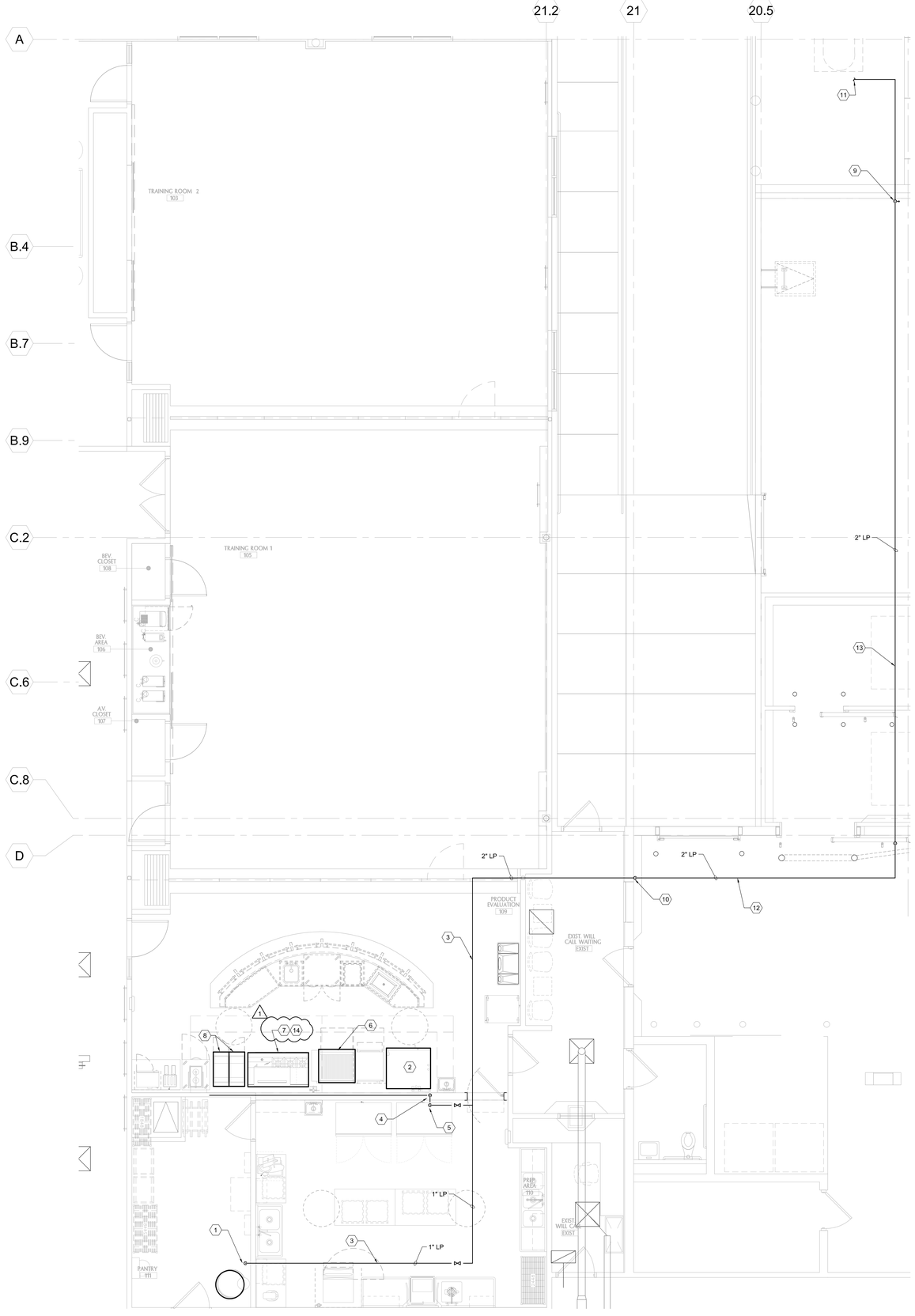
ENLARGED HVAC FLOOR PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER

H201

HVAC




NORTH

## PIPING FLOOR PLAN

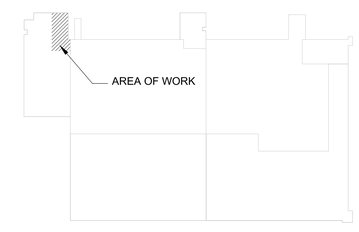
1/4" = 1'-0"

## SHEET GENERAL NOTES

1. SEE APPLICABLE NOTES ON SHEET H001.
2. KITCHEN EQUIPMENT FURNISHED BY OWNER UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. CEILING SPACES ABOVE OFFICE AREAS TO BE USED AS A RETURN AIR PLENUM.

## # KEY NOTES

1. 1" LP DOWN TO WATER HEATER (199 MBH INPUT). COORDINATE LOCATION AND FINAL CONNECTION WITH PLUMBING CONTRACTOR.
2. (2) 3/4" LP FOR COMBI OVENS (196 MBH INPUT TOTAL).
3. ALL LP PIPING INDICATED TO BE ABOVE CEILING SHALL BE ROUTED IN JOIST SPACE.
4. 1-1/2" LP DOWN IN WALL TO SERVE APPLIANCES. PROVIDE INDIVIDUAL STUB OUT FROM 1-1/2" HEADER FOR EACH APPLIANCE. SEE DETAIL 10/H501.
5. 1-1/2" LP DOWN THRU CEILING FOR KITCHEN EQUIPMENT. PROVIDE ELECTRONIC EMERGENCY SHUT OFF VALVE EXPOSED IN PREP AREA. COORDINATE PLACEMENT WITH KITCHEN EQUIPMENT.
6. 3/4" LP FOR CHARBROILER (96 MBH INPUT).
7. 1" LP FOR RANGE (278 MBH INPUT).
8. (2) 3/4" LP FOR FRYERS (140 MBH INPUT TOTAL).
9. ROUTE 2" LP DOWN INSIDE OF EXTERIOR WALL. STUB THRU EXTERIOR WALL ABOVE GRADE. AND CONNECT TO LP STUB BY OTHERS.
10. ROUTE 2" LP DOWN WAREHOUSE WALL. ROUTE THRU WAREHOUSE WALL INTO OFFICE PLENUM.
11. EXTERIOR LP TANK AND EXTERIOR PIPING DESIGN IS DELEGATED DESIGN AND IS NOT PART OF THESE DRAWINGS. COORDINATE CONNECTION WITH GENERAL CONTRACTOR. PROVIDE PRESSURE REGULATOR ABOVE GRADE TO REDUCE PRESSURE TO 14" W.C. TOTAL CONNECTED LOAD IS 939 MBH. APPROXIMATE EQUIVALENT LENGTH = 250 FT. (1)
12. ROUTE PIPING IN WAREHOUSE TIGHT TO UNDERSIDE OF JOISTS.
13. ROUTE PIPING ABOVE WILL CALL BOX-IN-BOX COOLER.
14. 3/4" LP FOR SALAMANDER (30 MBH INPUT). (1)

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| DWG By: AMK | CHKD By: JRO |

SHEET TITLE

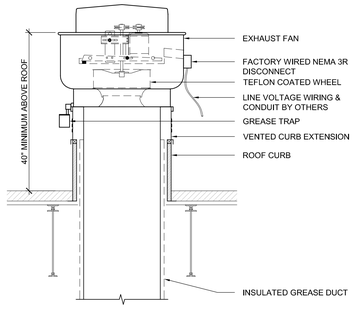
HVAC
PIPING PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER

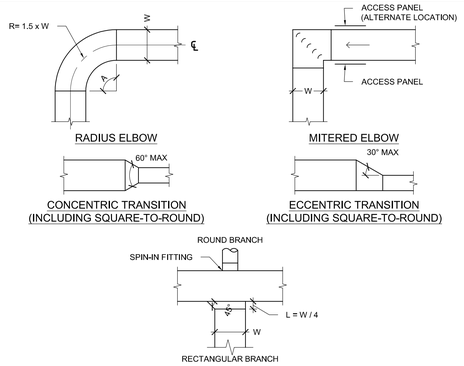
H202

HVAC

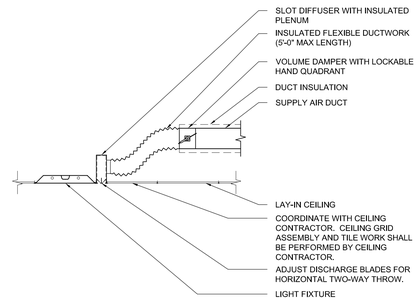



NOTES:
1. CURB SUPPORT FRAMING PROVIDED BY STRUCTURAL CONTRACTOR. COORDINATE LOCATION OF UNIT PRIOR TO INSTALLATION.
2. MAINTAIN INTEGRITY OF ROOFING MEMBRANE AT ROOF CURB. **DO NOT** PENETRATE ROOF MEMBRANE WITH ANY ACCESSORIES OR ACCESSORY FASTENERS.

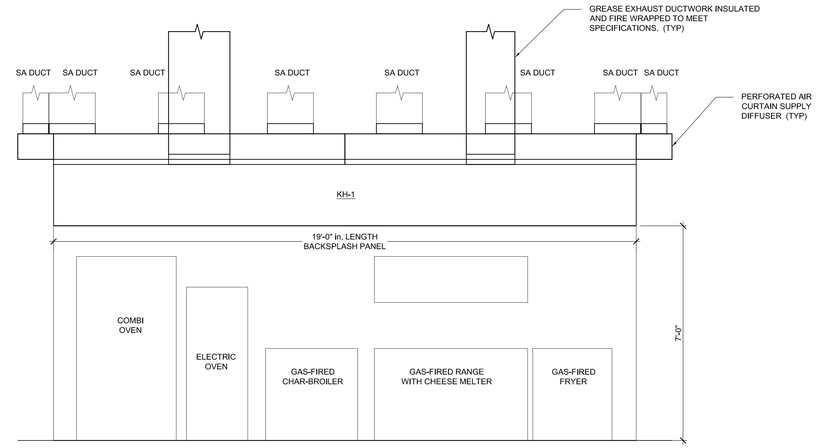
1 / H501 TYPICAL KITCHEN EXHAUST FAN
NOT TO SCALE




5 / H501 TYPICAL DUCT FITTINGS
NOT TO SCALE



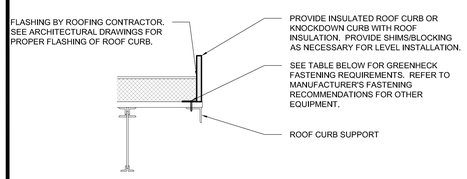

9 / H501 TYPICAL SLOT DIFFUSER
NOT TO SCALE




GENERAL NOTES:

1. SEE ARCHITECTURAL PLANS FOR KITCHEN EQUIPMENT INFORMATION.
2. SEE ARCHITECTURAL PLANS FOR BUILDING MATERIALS AND CONSTRUCTION.
3. FIRE DEPARTMENT APPROVAL SHALL BE REQUIRED ON FIRE PROTECTION SYSTEM FOR GREASE HOODS AND DUCTS AS REQUIRED BY SECTION 513 OF THE MECHANICAL CODE AND AS REQUIRED BY THE FIRE CODE.
4. PERFORMANCE, CAPTURE AND CONTAINMENT TESTS SHALL BE PERFORMED UPON INSTALLATION BEFORE FINAL. TEST DATA AND PERFORMANCE TEST RESULTS SHALL BE DISPLAYED AND BE AVAILABLE UPON REQUEST.
5. A DRAWING OF THE EXHAUST SYSTEM(S) INSTALLATION ALONG WITH A COPY OF OPERATING INSTRUCTIONS FOR SUBASSEMBLIES AND COMPONENTS USED IN THE EXHAUST SYSTEM(S), INCLUDING ELECTRICAL SCHEMATICS, SHALL BE AVAILABLE ON THE PREMISES.
6. ALL FIRE-EXTINGUISHING SYSTEMS SHALL BE INTERCONNECTED TO THE FUEL OR CURRENT SUPPLY SO THAT THE FUEL OR CURRENT IS AUTOMATICALLY SHUT OFF TO ALL EQUIPMENT UNDER THE HOOD WHEN THE SYSTEM IS ACTIVATED.
7. PRIOR TO THE USE OR CONCEALMENT OF A PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED JOINTS AND SEAMS ARE LIQUID TIGHT.
8. ALL CANOPY TYPE HOODS SHALL OVERHANG A MINIMUM OF 6" BEYOND THE COOKING SURFACE ON ALL OPEN SIDES.
9. WHERE ENCLOSURES ARE NOT REQUIRED, HOODS,GREASE REMOVAL DEVICES, EXHAUST FANS, AND EXHAUST DUCT SHALL HAVE A CLEARANCE OF AT LEAST 18" FROM COMBUSTIBLE MATERIALS, 3" FROM LIMITED-COMBUSTIBLE MATERIALS, AND 0" FROM NON-COMBUSTIBLE MATERIALS.EXCEPTION-1: LISTED EXHAUST HOODS, DUCTS, OR GREASE REMOVAL DEVICES. EXCEPTION-2: REDUCED CLEARANCE TO COMBUSTIBLE MATERIAL IF THE MATERIAL IS PROTECTED. PROVIDE DETAIL OF PROTECTION APPLIED TO COMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIAL FOR REDUCED CLEARANCE PER SECTION 507.3.2 OF THE MECHANICAL CODE.

11 / H501 TYPE 1 KITCHEN HOOD
NOT TO SCALE

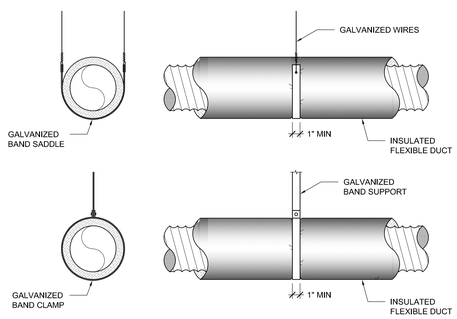



STEEL DECK ANCHORING OF ROOF CURB TO ROOF DECK

| GREENHECK FAN MODEL | GREENHECK FAN SIZE | GREENHECK CURB CAP SIZE INCHES | MINIMUM FASTENERS PER SIDE | MINIMUM FASTENERS TOTAL |
|---|---|---|---|---|
| GB/CUBE | 060 - 141 | 17x17 - 22x22 | (2) 1/4" | (8) 1/4" |
| GB/CUBE | 161 - 300 | 26x26 - 40x40 | (3) 1/4" | (12) 1/4" |
| R/RB | 18 - 24 | 14x14 - 30x30 | (2) 5/16" | (8) 5/16" |
| R/RB | 30 - 36 | 31x31 - 51x51 | (3) 5/16" | (12) 5/16" |
| R/RB | 42 | 52x52 - 72x72 | (4) 5/16" | (16) 5/16" |

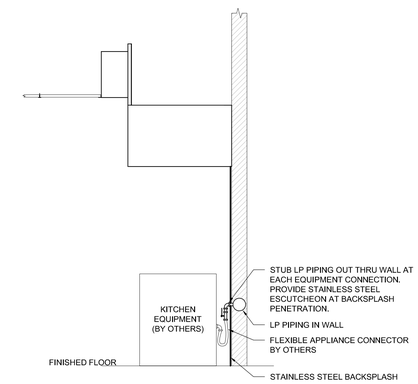
NOTES
1. CURB SUPPORT FRAMING PROVIDED BY STRUCTURAL CONTRACTOR. COORDINATE LOCATION OF UNIT PRIOR TO INSTALLATION.
2. INSTALL ONE FASTENER AT EACH CORNER & IN CENTER OF EACH SIDE. ADD ADDITIONAL FASTENERS AS NECESSARY TO MAINTAIN A MAXIMUM OF 8" ON CENTER.
3. FOLLOW MANUFACTURER'S INSTALLATION REQUIREMENTS FOR EQUIPMENT NOT SHOWN IN CHART.

2 / H501 TYPICAL ROOF CURB
NOT TO SCALE

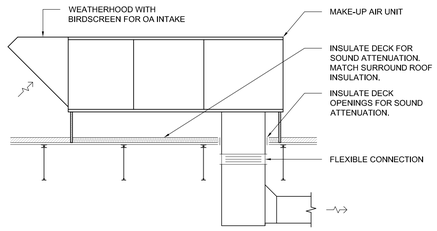



NOTES
1. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR DEFORM DUCT SHAPE.
2. MAXIMUM PERMISSIBLE SAG IS 1/2" PER FOOT OF SPACING BETWEEN SUPPORTS. A CONNECTION TO ANOTHER DUCT OR EQUIPMENT CONSTITUTES A SUPPORT POINT.
3. THE SUPPORT SADDLE MUST COVER ONE-HALF THE CIRCUMFERENCE OF THE OUTSIDE DIAMETER OF THE FLEXIBLE DUCT AND FIT NEATLY AROUND THE LOWER HALF OF THE DUCT'S OUTER CIRCUMFERENCE.

6 / H501 TYPICAL FLEXIBLE DUCT SUPPORT
NOT TO SCALE

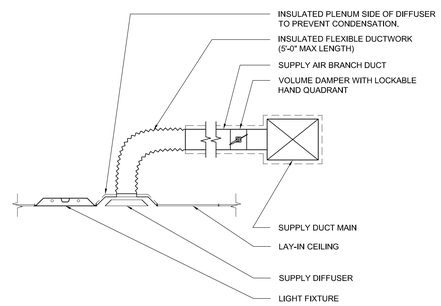



10 / H501 TYPICAL LP STUB FOR EQUIPMENT CONNECTION
NOT TO SCALE



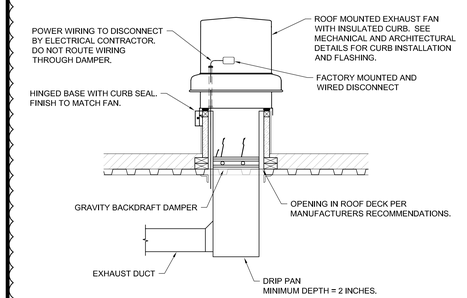

NOTES
1. CURB SUPPORT FRAMING PROVIDED BY STRUCTURAL CONTRACTOR. COORDINATE LOCATION OF UNIT PRIOR TO INSTALLATION.

3 / H501 TYPICAL MAKE-UP AIR UNIT
NOT TO SCALE

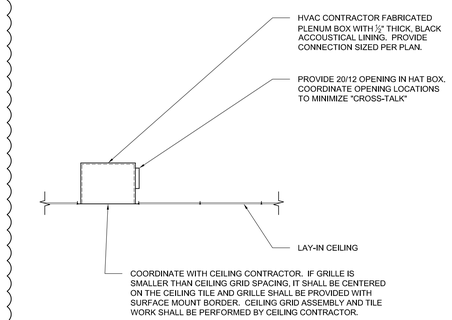



7 / H501 TYPICAL SQUARE DIFFUSER
NOT TO SCALE

1




4 / H501 TYPICAL DUCTED EXHAUST FAN
NOT TO SCALE




8 / H501 TYPICAL TRANSFER GRILLE
NOT TO SCALE


ESI ARCHITECTURAL & ENGINEERING SERVICES INC.
SMART BUILDING SOLUTIONS
Arch. Bus. Lic. Nbr. AA26001599
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US FOODS®

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| DATE | JOB NO. |
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| 1-6-20 | 50-1414-19 |
| DWG. By: AMK | CHK'D By: JRO |

SHEET TITLE
DETAILS

PRELIMINARY DWGS.
FINAL CONST. DWGS. ■

SHEET NUMBER
H501

HVAC

## PACKAGED ROOFTOP UNIT SCHEDULE

| TAG | BASIS OF DESIGN | | TYPE | AIR-HANDLING DATA | | | | | | | POWER EXHAUST | | | | | COOLING PERFORMANCE DATA | | | | | | | | | | REHEAT PERFORMANCE DATA | | | HEATING PERFORMANCE DATA | | | | | ELECTRICAL DATA | | | | | APPROX. WEIGHT LBS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MANUFACTURER | MODEL | | MAXIMUM SUPPLY-AIR CFM | MINIMUM SUPPLY-AIR CFM | OUTSIDE-AIR CFM | ESP IN WC | MOTOR HP | MOTOR RPM | MOTOR SPEED CONTROL | AIRFLOW CFM | ESP IN WC | MOTOR HP | MOTOR RPM | MOTOR SPEED CONTROL | NOMINAL TONS | AMBIENT TEMP, DEG-F | TOTAL CAPACITY MBH | SENSIBLE CAPACITY MBH | EADB DEG-F | EAWB DEG-F | LADB DEG-F | LAWB DEG-F | (S)EER | IEER | STAGES | TYPE | CAPACITY MBH | TEMP. RISE DEG-F | TYPE | CAPACITY KW | EAT DEG-F | LAT DEG-F | STAGES | VOLTS | PHASE | HERTZ | MCA | MOP | | |
| RTU-3 | TRANE | THC092F4RGA | PACKAGED DX | 2,400 | 1,050 | 320 | 1.00 | 2.75 | 1066 | VAV | 1734.0 | 0.3 | 1.0 | - | CONSTANT | 7.5 | 105 | 82.1 | 60.3 | 80 | 67 | 58 | 56 | 12.6 | 14.5 | 2 | N/A | - | - | ELECTRIC | 18.0 | 70 | 94 | 2 | 480 | 3 | 60 | 33.0 | 35.0 | 1,500 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 |
| RTU-6 | TRANE | THD210G4RKB | PACKAGED DX | 6,100 | 2,800 | 950 | 1.00 | 5.00 | 736 | VAV | 2300.0 | 0.3 | TBD | - | CONSTANT | 17.5 | 105 | 200.9 | 153.7 | 81 | 68 | 59 | 58 | 11.8 | 14.0 | 2 | N/A | - | - | ELECTRIC | 27.0 | 64 | 78 | 1 | 480 | 3 | 60 | 35.0 | 45.0 | 2,400 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 |

GENERAL NOTES:
G1. PROVIDE THE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTIONS 237416.11 AND 237416.13.
G2. UNIT WEIGHT IS APPROXIMATE AND INCLUDES ACCESSORIES.
G3. ALL THREE-PHASE MOTORS SHALL BE PREMIUM EFFICIENCY AND INVERTER-DUTY RATED.
G4. UNIT SHALL BE RATED FOR HIGH WINDS, REFER TO SPECIFICATIONS.

NOTES:
1. DISCONNECT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. PROVIDE UNIT WITH FACTORY-MOUNTED AND WIRED VFD(S), AND CONTROL TRANSFORMER.
3. PROVIDE UNIT WITH BACNET COMMUNICATION INTERFACE FOR BUILDING AUTOMATION SYSTEM.
4. PROVIDE UNIT WITH HINGED ACCESS PANELS.
5. PROVIDE UNIT WITH ELECTRO-FIN COIL COATING ON ALL COILS.
6. PROVIDE UNIT WITH 14 INCH ROOF CURB.
7. PROVIDE UNIT WITH LOW LEAKAGE, COMPARATIVE ENTHALPY ECONOMIZER.
8. PROVIDE UNIT WITH 2 INCH, PLEATED, MERV 8, DISPOSABLE FILTERS.
9. PROVIDE UNIT WITH CONDESATE OVERFLOW SWITCH, FAN STATUS, AND DIRTY FILTER SWITCHES.
10. PROVIDE UNIT WITH STAINLESS STEEL DRAIN PAN.
11. SMOKE DETECTORS TO BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR. INSTALL DETECTOR IN DUCTWORK AND PROVIDE CONTROL WIRING AS NECESSARY TO SHUTDOWN UNIT.
12. PROVIDE UNIT WITH POWERED EXHAUST.

## KITCHEN MAKE-UP AIR UNIT SCHEDULE

| TAG | BASIS OF DESIGN | | LOCATION | DESCRIPTION | AIR-HANDLING DATA | | | | | COOLING PERFORMANCE DATA | | | | | | REHEAT PERFORMANCE DATA | | | HEATING PERFORMANCE DATA | | | | | ELECTRICAL DATA | | | | | APPROX. WEIGHT LBS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MANUFACTURER | MODEL | | | MAXIMUM SUPPLY-AIR CFM | MINIMUM SUPPLY-AIR CFM | ESP INCHES WC | MOTOR HP | MOTOR SPEED CONTROL | TYPE | AMBIENT TEMP, DEG-F | TOTAL CAPACITY MBH | SENSIBLE CAPACITY MBH | EADB/WB DEG-F | LADB/WB DEG-F | TYPE | CAPACITY MBH | TEMP. RISE DEG-F | TYPE | CAPACITY KW | EAT DEG-F | LAT DEG-F | STAGES | VOLTS | PHASE | HERTZ | MCA | MOP | | |
| KMU-1 | GREENHECK | RV-70-35D | ROOF | DX COOLED MAKE-UP AIR | 4,800 | 2,400 | 1 | (2) 1-1/2 | VFD | PACKAGED DX | 105 | 478 | 197.8 | 91.8 / 81.2 | 54.6 / 54.6 | MODULATING HOT GAS | 176.8 | 34.1 | ELECTRIC | 35 | 46.7 | 69.7 | SCR | 480 | 3 | 60 | 73.3 | 80 | 6,300 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 |

GENERAL NOTES
G1. PROVIDE THE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTION 237434. **CAPTIVE-AIRE MAKE-UP AIR UNITS ARE NOT CONSIDERED APPROVED EQUALS. ANY SUBMITTAL OF CAPTIVE-AIRE MAKE-UP AIR UNITS WILL BE REJECTED.**
G2. UNIT WEIGHT IS APPROXIMATE AND INCLUDES ACCESSORIES.
G3. ALL THREE-PHASE MOTORS SHALL BE PREMIUM EFFICIENCY AND INVERTER-DUTY RATED.
G4. UNIT FURNISHED WITH FACTORY-MOUNTED VARIABLE FREQUENCY DRIVE(S), INTERNALLY MOUNTED CONTROL CENTER INCLUDES MOTOR STARTERS, 24 VAC CONTROL TRANSFORMERS AND CONTROL CIRCUIT FUSING.
G5. UNIT SHALL BE CAPABLE OF FULL FAN MODULATION FROM MINIMUM TO MAXIMUM SUPPLY AIRFLOW BASED UPON INPUT FROM KITCHEN VENTILATION CONTROL SYSTEM.
G6. UNIT SHALL BE DISABLED WHEN THE FIRE-EXTINGUISHING SYSTEM FOR THE KITCHEN HOODS IS ACTIVATED.
G7. UNIT SHALL BE RATED FOR HIGH WINDS. REFER TO SPECIFICATIONS.

NOTES
1. PROVIDE UNIT WITH DOUBLE WALL CONSTRUCTION.
2. PROVIDE UNIT WITH HINGED ACCESS DOORS.
3. PROVIDE UNIT WITH ELECTROFIN COIL COATING FOR ALL COILS.
4. PROVIDE UNIT WITH SPECIAL DESIGN REQUEST FOR ALUMINUM MESH FILTERS IN INTAKE HOOD.
5. PROVIDE UNIT WITH 14 INCH ROOF CURB.
6. PROVIDE UNIT WITH LOW LEAKAGE DAMPER.
7. PROVIDE UNIT WITH 2 INCH PLEATED, MERV 8, DISPOSABLE FILTERS.
8. PROVIDE UNIT WITH DIRTY FILTER SENSOR.
9. PROVIDE UNIT WITH BACNET INTERFACE FOR BUILDING AUTOMATION SYSTEM.
10. PROVIDE UNIT WITH DIGITAL SCROLL COMPRESSOR.
11. SMOKE DETECTORS TO BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR. INSTALL DETECTOR IN DUCTWORK AND PROVIDE CONTROL WIRING AS NECESSARY TO SHUTDOWN UNIT.

## COMMERCIAL KITCHEN HOOD SCHEDULE

1

| TAG | BASIS OF DESIGN | | TYPE | APPLICATION | CANOPY DATA | | | | | | LIGHTING DATA | | | FILTRATION DATA | | EXHAUST DATA | | | | FRONT SUPPLY PLENUM DATA | | | | | | | SIDE SUPPLY PLENUM DATA | | | | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MANUFACTURER | MODEL | | | LENGTH IN | WIDTH IN | HEIGHT IN | MOUNTING HEIGHT IN | WEIGHT LBS | GREASE CUP OR DRAIN LOCATION | QTY | TYPE | INTENSITY FT-CANDLES | TYPE | MATERIAL | AIRFLOW CFM | COLLAR(S) IN | MAX PD INCHES WC | VELOCITY FPM | TYPE | AIRFLOW CFM | COLLAR(S) IN | PLENUM LENGTH IN | PLENUM WIDTH IN | PLENUM HEIGHT IN | MAX PD INCHES WC | VELOCITY FPM | TYPE | AIRFLOW CFM | COLLAR(S) IN | PLENUM LENGTH IN | PLENUM WIDTH IN | PLENUM HEIGHT IN | MAX PD INCHES WC | VELOCITY FPM | |
| KH-1 LEFT | GREENHECK | GGDW | TYPE 1 WALL CANOPY | HEAVY | 114 | 60 | 24 | 84 | 450 | LEFT | 2 | ROUND LED | 59.63 | 95% @ 8 MICRONS GREASE GRABBER | STAINLESS STEEL | 2,600 | 16x14 | 1,370 | 1,671 | AIR CURTAIN | 1,750 | (3) 16x10 | 128 | 14 | 10 | 0.120 | 525 | AIR CURTAIN | 650 | 18x10 | 60 | 14 | 10 | 0.080 | 520 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| KH-1 RIGHT | GREENHECK | GGDW | TYPE 1 WALL CANOPY | HEAVY | 114 | 60 | 24 | 84 | 450 | RIGHT | 2 | ROUND LED | 59.63 | 95% @ 8 MICRONS GREASE GRABBER | STAINLESS STEEL | 2,200 | 14x14 | 1,054 | 1,616 | AIR CURTAIN | 1,750 | (3) 16x10 | 128 | 14 | 10 | 0.120 | 525 | AIR CURTAIN | 650 | 18x10 | 60 | 14 | 10 | 0.080 | 520 | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| <REMOVED> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL NOTES
G1. PROVIDE THE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTION 233813. CAPTIVE-AIRE CONTROLS SYSTEMS ARE NOT CONSIDERED APPROVED EQUALS. ANY SUBMITTAL OF CAPTIVE-AIRE CONTROLS WILL BE REJECTED.
G2. TYPE I HOODS SHALL COMPLY WITH UL 710 WITHOUT EXHAUST FIRE DAMPER.
G3. HOOD WEIGHTS ARE APPROXIMATE AND INCLUDE ACCESSORIES.
G4. ALL EXPOSED MATERIAL SHALL BE 430 STAINLESS-STEEL.
G5. TYPE 1 HOODS SHALL BE PROVIDED WITH A SINGLE AMEREX ZONE DEFENSE OR APPROVED EQUAL FIRE PROTECTION SYSTEM. THE SYSTEM SHALL INCLUDE AN ELECTRIC NATURAL GAS SHUT-OFF VALVE, REMOTE PULL STATION, AND SUPPRESSANT MOUNTED IN A REMOTE, STAINLESS-STEEL CABINET.
G6. FOR ALL HOODS, PROVIDED WITH A SINGLE KITCHEN VENTILATION CONTROL SYSTEM, EQUAL TO GREENHECK VARI-FLOW. THE SYSTEM SHALL BE CAPABLE OF MODULATING THE EXHAUST AND MAKE-UP AIR QUANTITIES FROM 50% TO 100%.

NOTES
1. PROVIDE HOOD WITH ZERO CLEARANCE FRONT AND TOP.
2. PROVIDE 3" REAR INTEGRAL AIR SPACE.
3. PROVIDE FACTORY MOUNTED EXHAUST COLLARS WITH UL LISTED MANUAL BALANCING DAMPERS.
4. PROVIDE HOOD WITH CONTINUOUS CAPTURE ARRANGMENT, WITH TRIM STRIPS, NO DIVIDER BETWEEN HOOD SECTIONS.
5. PROVIDE HOOD WITH FACTORY MOUNTED, NATURAL WHITE LED LIGHT FIXTURES.
6. PROVIDE HOOD WITHOUT ANY MANUFACTURER LOGO ON EXTERIOR OF CANOPY.
7. PROVIDE 6" HIGH STAINLESS STEEL HOOD ENCLOSURE.
8. PROVIDE INSULATED EXTERNAL SUPPLY PLENUMS.
9. PROVIDE STAINLESS STEEL BACKSPLASH FROM FLOOR UP TO 3 INCHES ABOVE BOTTOM OF HOOD.
10. PROVIDE 2" LP GAS ELECTRONIC SHUT-OFF VALVE.
11. PROVIDE HOOD WITH CONDENSATE GUTTER.

## POWER VENTILATOR SCHEDULE

1

| TAG | BASIS OF DESIGN | | TYPE | LOCATION | SERVES | AIRFLOW CFM | ESP INCHES WC | MOTOR DATA | | | | | ELECTRICAL DATA | | | CURB HEIGHT INCHES | SOUND DATA | | | APPROX. WEIGHT LBS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MANUFACTURER | MODEL | | | | | | DRIVE | ENCLOSURE | HP | RPM | SPEED CONTROL | VOLTS | PHASE | HERTZ | | LwA | dBA | SONES | | |
| KEF-1 | GREENHECK | CUBE-300XP | CENTRIFUGAL UPBLAST | ROOF | KH-1 | 4,800 | 2.25 | BELT | ODP | 5 | 1725 | VFD | 480 | 3 | 60 | 18 | 85 | 74 | 22 | 300 | 1, 2, 3, 4, 5, 6, 9 |
| KEF-2 | GREENHECK | CUE-095-VG | CENTRIFUGAL UPBLAST | ROOF | KH-2 | 350 | 0.75 | DIRECT | ODP | 1/6 | 1725 | ECM | 120 | 1 | 60 | 18 | 70 | 58 | 9.1 | 100 | 1, 2, 3, 4, 5, 6, 7, 8, 14 |
| TF-1 | GREENHECK | SP-A1050 | CEILING VENTILATOR | AV CLOSET | AV CLOSET | 850 | 0.25 | DIRECT | ODP | 420 WATTS | 998 | SOLID STATE | 120 | 1 | 60 | - | 61 | 47 | 4.5 | 100 | 7, 10, 11, 12, 13 |

GENERAL NOTES:
G1. PROVIDE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTION 233423.
G2. ALL FANS SHALL HAVE AMCA-CERTIFIED PERFORMANCE RATINGS AND SHALL BEAR THE AMCA-CERTIFIED RATINGS SEAL.
G3. POWER VENTILATORS SHALL COMPLY WITH UL 705. POWER VENTILATORS FOR USE FOR KITCHEN EXHAUST SHALL ALSO COMPLY WITH UL 762.
G4. FAN WEIGHTS ARE APPROXIMATE AND INCLUDE ACCESSORIES.
G5. ALL SINGLE-PHASE FAN MOTORS SHALL INCLUDE THERMAL OVERLOAD PROTECTION.
G6. ALL THREE-PHASE FAN MOTORS SHALL BE PREMIUM EFFICIENCY AND INVERTER-DUTY RATED.

NOTES:
1. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED, NEMA-3R DISCONNECT.
2. PROVIDE UNIT WITH HINGED BASE AND HIGH TEMPERATURE CURB SEAL.
3. PROVIDE UNIT WITH HIGH WIND RATED CONSTRUCTION.
4. PROVIDE UNIT WITH HI-PRO POLYESTER COATING, CONCRETE GREY COLOR.
5. PROVIDE UNIT WITH HEAT BAFFLE, NON-STICK WHEEL, CLEANOUT PORT, AND GREASE TRAP.
6. PROVIDE UNIT WITH HOOD HASPS AND TIE-DOWN POINTS.
7. PROVIDE UNIT WITH SPEED CONTROL DIAL ON MOTOR.
8. PROVIDE UNIT WITH ALUMINUM BIRDSCREEN.
9. PROVIDE UNIT WITH STAINLESS STEEL MOTOR SHAFT, GROUNDING RINGS, AND THERMAL OVERLOAD.
10. PROVIDE ALUMINUM GRILLE WITH WHITE ENAMEL FINISH.
11. PROVIDE UNIT WITH VIBRATION ISOLATION KIT.
12. PROVIDE UNIT WITH REVERSE ACTING THERMOSTAT TO ENERGIZE FAN IF SPACE TEMPERATURE EXCEEDS 80 DEG-F.
13. PROVIDE UNIT WITH PLUG TYPE DISCONNECT.
14. PROVIDE GREENHECK WD-100 GRAVITY BACKDRAFT DAMPER OR EQUAL GRAVITY BACKDRAFT DAMPER.

## AIR TERMINAL UNIT SCHEDULE

| TAG | BASIS OF DESIGN | | INLET DIAMETER (INCH) | PRIMARY AIRFLOW | | | ELECTRICAL DATA | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MANUFACTURER | MODEL | | MAXIMUM COOLING (CFM) | DEADBAND CFM | MAXIMUM HEATING CFM | VOLTS | PHASE | HERTZ | FLA | |
| AT-3.1 | TRANE | VCCF | 8 | 450 | 200 | 450 | 120 | 1 | 60 | 1 | 1, 2, 4 |
| AT-3.2 | TRANE | VCCF | 8 | 450 | 200 | 450 | 120 | 1 | 60 | 1 | 1, 2, 4 |
| AT-3.3 | TRANE | VCCF | 10 | 700 | 300 | 700 | 120 | 1 | 60 | 1 | 1, 2, 3, 4 |
| AT-3.4 | TRANE | VCCF | 6 | 150 | 75 | 150 | 120 | 1 | 60 | 1 | 1, 2, 4 |
| AT-3.5 | TRANE | VCCF | 8 | 650 | 275 | 650 | 120 | 1 | 60 | 1 | 1, 2, 4 |
| AT-6.1 | TRANE | VCCF | 14 | 2,400 | 1,200 | 2,400 | 120 | 1 | 60 | 1 | 1, 2, 3, 4 |
| AT-6.2 | TRANE | VCCF | 14 | 2,000 | 1,000 | 2,000 | 120 | 1 | 60 | 1 | 1, 2, 3, 4 |
| AT-6.3 | TRANE | VCCF | 8 | 500 | 200 | 500 | 120 | 1 | 60 | 1 | 1, 2, 4 |
| AT-6.4 | TRANE | VCCF | 10 | 1,200 | 400 | 1,200 | 120 | 1 | 60 | 1 | 1, 2, 4 |

**GENERAL NOTES:**
G1. PROVIDE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTION 233600.
G2. PROVIDE UNIT WITH BACNET DDC CONTROLLER WITH AIRFLOW MEASUREMENT.
G3. MAXIMUM PRESSURE DROP AT DESIGN AIRFLOW SHALL BE 0.25 INCHES W.G.

NOTES:
1. PROVIDE 1" FOIL FACED INSULATION.
2. PROVIDE UNIT MOUNTED DISCONNECT AND 120V TO 24V TRANSFORMER.
3. DDC CONTROL WITH SPACE CO2 SENSOR TO INCREASE PRIMARY AIRFLOW FOR DEMAND CONTROLLED VENTILATION.
4. PROVIDE UNIT WITH LEFT/RIGHT HAND ORIENTATION AS NECESSARY.

## GRILLE, REGISTER, DIFFUSER SCHEDULE

| TAG | BASIS OF DESIGN | | USAGE | DESCRIPTION | MATERIAL / FINISH | MAX. NOISE CRITERIA NC | NOTES |
|---|---|---|---|---|---|---|---|
| | MANUFACTURER | MODEL | | | | | |
| CD-1 | TITUS | OMNI | CEILING SUPPLY DIFFUSER | 24"x24" PLAQUE FACE DIFFUSER WITH ROUND NECK | ST | 30 | 1,2 |
| CD-2 | TITUS | TRITEC | CEILING SUPPLY DIFFUSER | 24"x24" PERFORATED, HIGH CAPACITY, LOW-VELOCITY DIFFUSER WITH ROUND NECK, TWO-WAY THROW & RADIAL PATTERN | SEE NOTE 5 | 30 | 1,2,4 |
| LD-1 | TITUS | TBDI-30 | CEILING SUPPLY SLOT | 48" LONG 3-SLOT 3/4" WIDE ADJUSTABLE LINEAR DIFFUSER | ST | 25 | 1,2,6 |
| LD-2 | TITUS | FL-20-1-66-JT | CEILING SUPPLY SLOT | 48" LONG 1-SLOT 2" WIDE ADJUSTABLE LINEAR DIFFUSER | ST | 25 | 1,2,6 |
| RG/TG-1 | TITUS | 350 | RETURN / TRANSFER GRILLE | 24"x24" SINGLE DEFL. GRILLE, FIXED BLADES, 3/4" SPACING AT 35 DEG. | ST | 25 | 1,7 |
| RG/TG-2 | TITUS | 350 | RETURN / TRANSFER GRILLE | SINGLE DEFL. GRILLE, FIXED BLADES, 3/4" SPACING AT 35 DEG. | ST | 25 | 1,2,3 |

GENERAL NOTES
G1. PROVIDE THE PRODUCT INDICATED OR A COMPARABLE PRODUCT BY ONE OF THE MANUFACTURERS LISTED IN SPECIFICATION SECTION 233713.
G2. PROVIDE APPROPRIATE FRAME/BORDER/FLANGE FOR PROPER MOUNTING. REFER TO THE ARCHITECTURAL DRAWINGS FOR SURFACES IN WHICH GRILLES REGISTERS AND DIFFUSERS ARE LOCATED.
G3. MATERIAL/FINISH KEY
AL - ALUMINUM WITH STANDARD FACTORY WHITE ENAMEL FINISH.
ST - STEEL WITH STANDARD FACTORY WHITE ENAMEL FINISH.

NOTES:
1. SEE PLANS FOR ADDITIONAL GRILLE, REGISTER AND DIFFUSER SIZE INFORMATION.
2. SEE PLAN FOR NECK SIZE.
3. FRONT BLADE PARALLEL TO LONG DIMENSION
4. PERFORATED DIFFUSER: 51% FREE AREA, 3/16" DIAMETER HOLES, 1/4" STAGGERED CENTERS
5. STEEL BACKPAN COATED, STEEL FACE WITH STANDARD WHITE ENAMEL OR POWER COATED FINISH.
6. PROVIDE WITH INSULATED PLENUM BOX.
7. INSTALLATION NOTE: WHEN CONNECTING DUCT DIRECTLY TO GRILLE, PLENUM BOX SHALL BE SAME SIZE AS GRILLE. SEE PLAN FOR DUCT CONNECTION SIZE.


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1 2/7/2020 – ADDENDUM #1
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| DATE | JOB NO. |
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| 1-6-20 | 50-1414-19 |
| DWG By: AMK | CHK'D By: JRO |

SHEET TITLE
SCHEDULES

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
H801

HVAC

## ELECTRICAL ABBREVIATIONS

| | | | |
|---|---|---|---|
| A | AMPERE | JB | JUNCTION BOX |
| AC | ABOVE COUNTER | KO | KNOCK OUT |
| AFF | ABOVE FINISHED FLOOR | KVA | KILOVOLT-AMPERE |
| AFG | ABOVE FINISHED GRADE | KW | KILOWATT |
| AIC | AVAILABLE INTERRUPT CURRENT | LV | LOW VOLTAGE |
| BFG | BELOW FINISHED GRADE | LVS | LOW VOLTAGE SWITCH |
| C | CONDUIT | MCB | MAIN CIRCUIT BREAKER |
| CB | CIRCUIT BREAKER | MDF | MAIN DISTRIBUTION FRAME |
| CLG | CEILING | MDGF | MODIFIED DIFFERENTIAL GROUND FAULT |
| EC | ELECTRICAL CONTRACTOR | MLO | MAIN LUG ONLY |
| EL | EMERGENCY LIGHT CIRCUIT | MTG | MOUNTING |
| EMT | ELECTRICAL METALLIC TUBING | MTD | MOUNTED |
| EP | EXPLOSION PROOF | NA | NOT APPLICABLE |
| ETR | EXISTING TO BE RELOCATED | NL | NIGHT LIGHT |
| ERL | EXISTING, RELOCATED | NTS | NOT TO SCALE |
| ER | ELEVATOR RECALL | OB | OUTBOARD |
| EX | EXISTING | OC | ON CENTER |
| EXR | EXISTING TO BE REMOVED | P | POLE OR PILOT |
| FLA | FULL LOAD AMPERES | PC | PHOTOCONTROL |
| FS | FURNITURE SYSTEM | PH | PHASE |
| FVNR | FULL VOLTAGE NON-REVERSING | PNL | PANEL |
| G | GROUND | TC | TIMECLOCK |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | TYP | TYPICAL |
| GFP | GROUND FAULT PROTECTION | UG | UNDERGROUND |
| GRC | GALVANIZED RIGID CONDUIT | UNO | UNLESS NOTED OTHERWISE |
| GND | GROUND | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| HC | HORIZONTAL CROSS-CONNECT | V | VOLTAGE |
| IB | INBOARD | WAP | WIRELESS ACCESS POINT |
| IC | INTERMEDIATE CROSS-CONNECT | WP | WEATHERPROOF |
| IDF | INTERMEDIATE DISTRIBUTION FRAME | XFMR | TRANSFORMER |
| IMC | INTERMEDIATE METALLIC CONDUIT | Z | ZONE |

## ELECTRICAL SYMBOLS

- PENDANT MOUNTED FIXTURE
- SURFACE MOUNTED FIXTURE
- SURFACE MOUNTED FIXTURE FOR EMERGENCY EGRESS
- RECESSED DOWNLIGHT FIXTURE
- RECESSED DOWNLIGHT FIXTURE FOR EMERGENCY EGRESS
- RECESSED FIXTURE, SIZE AS SHOWN
- RECESSED FIXTURE FOR EMERGENCY EGRESS, SIZE AS SHOWN. SEE SCHEDULE FOR SPLIT WIRING REQUIREMENTS.
- SURFACE OR SUSPENDED FIXTURE, SIZE AS SHOWN
- SURFACE OR SUSPENDED FIXTURE FOR EMERGENCY EGRESS, SIZE AS SHOWN. SEE SCHEDULE FOR SPLIT WIRING REQUIREMENTS.
- STRIP FIXTURE, LENGTH AS SHOWN
- STRIP FIXTURE FOR EMERGENCY EGRESS, LENGTH AS SHOWN
- WALL MOUNTED FIXTURE
- WALL MOUNTED FIXTURE FOR EMERGENCY EGRESS
- WALL BRACKET FIXTURE
- WALL BRACKET FIXTURE FOR EMERGENCY EGRESS
- TRACK AND TRACK HEAD FIXTURES
- POLE MOUNTED FIXTURE
- WALL MOUNTED EXIT FIXTURE, SHADING INDICATES QUANTITY OF HEADS
- CEILING OR PENDANT MOUNTED EXIT FIXTURE, SHADING INDICATES QUANTITY OF HEADS
- EMERGENCY BATTERY UNIT
- WALL MOUNTED REMOTE HEADS
- CEILING MOUNTED REMOTE HEADS
- $ — SINGLE POLE TOGGLE SWITCH, SUBSCRIPTS INDICATE AS FOLLOWS: (3) THREE WAY (4) FOUR WAY (K) KEY (P) PILOT LIGHT, MOUNT 48" AFF TO TOP OF BOX
- $OS — WALL SWITCH PIR OCCUPANCY SENSOR, MOUNT 48" AFF TO TOP OF BOX
- $OS2 — DUAL RELAY WALL SWITCH PIR OCCUPANCY SENSOR, MOUNT 48" AFF TO TOP OF BOX
- $LV — LOW VOLTAGE SWITCH OR SWITCH STATION, MOUNT 48" AFF TO TOP OF BOX
- $T — DIGITAL TIME SWITCH
- $D — WALL BOX DIMMER
- OS — OCCUPANCY SENSOR
- DL — DAYLIGHTING SENSOR
- PC — PHOTOCONTROL
- DUPLEX RECEPTACLE, MOUNT 18" AFF TO CENTER OF BOX
- IG — ISOLATED GROUND DUPLEX RECEPTACLE, MOUNT 18" AFF TO CENTER OF BOX
- DUPLEX RECEPTACLE, MOUNT 48" AFF TO TOP OF BOX UNLESS LOCATED ABOVE COUNTER MOUNT OUTLETS ABOVE COUNTER 2" ABOVE BACKSPLASH TO BOTTOM OF BOX
- DOUBLE DUPLEX RECEPTACLE, MOUNT 18" AFF TO CENTER OF BOX
- DOUBLE DUPLEX RECEPTACLE, MOUNT 48" AFF TO TOP OF BOX UNLESS LOCATED ABOVE COUNTER MOUNT OUTLETS ABOVE COUNTER 2" ABOVE BACKSPLASH TO BOTTOM OF BOX
- FLOOR RECEPTACLE
- CEILING RECEPTACLE
- WIREMOLD
- XX — MOTOR CONNECTION, SCHEDULE ITEM XX
- XX — EQUIPMENT CONNECTION, SCHEDULE ITEM XX
- FS — FURNITURE SYSTEM CONNECTION
- DISCONNECT
- STARTER
- PUSHBUTTON, MOUNT 48" AFF TO TOP OF BOX
- JB — JUNCTION BOX
- C — CONTACTOR
- TC — TIMECLOCK
- T — TRANSFORMER
- B — BUZZER/DOORBELL
- VOICE/DATA OUTLET, MOUNT 18" AFF TO CENTER OF BOX
- DATA OUTLET, MOUNT 18" AFF TO CENTER OF BOX
- VOICE OUTLET, MOUNT 18" AFF TO CENTER OF BOX, SUBSCRIPTS INDICATE AS FOLLOWS: (W) WALL PHONE, MOUNT 48" AFF TO TOP OF BOX
- FLOOR VOICE/DATA OUTLET
- AV OUTLET
- SPEAKER (W = WALL)
- PAGING HORN
- VC — VOLUME CONTROL
- DH — DOOR HOLDER
- ADDRESSABLE MANUAL PULL STATION, MOUNT 48" AFF TO TOP OF BOX
- S — ADDRESSABLE SMOKE DETECTOR, (ER) ELEVATOR RECALL
- H — HEAT DETECTOR
- T — ADDRESSABLE TEMPERATURE SWITCH, OR ADDRESSABLE MODULE AND DRY CONTACT TEMPERATURE SWITCH FOR LOW BUILDING TEMP ALARM
- MM — ADDRESSABLE MONITOR MODULE
- CM — ADDRESSABLE CONTROL MODULE
- DS — INTELLIGENT ADDRESSABLE DUCT SMOKE DETECTOR WITH RELAY
- FD — FIRE DAMPER SMOKE DETECTOR
- FS — FLOW SWITCH PROVIDED BY OTHERS, ELECTRICAL CONTRACTOR TO CONNECT TO SPRINKLER ALARM BELLS DIRECTLY, AND TO FIRE ALARM SYSTEM THROUGH ADDRESSABLE MODULE
- TS — VALVE TAMPER SWITCH PROVIDED BY OTHERS, ELECTRICAL CONTRACTOR TO MOUNT AND CONNECT TO SPRINKLER ALARM BELLS DIRECTLY AND TO FIRE ALARM SYSTEM THROUGH ADDRESSABLE MODULE
- PS — DRY SPRINKLER PRESSURE SWITCH BY OTHERS, ELECTRICAL CONTRACTOR TO MOUNT AND CONNECT TO SPRINKLER ALARM BELLS DIRECTLY AND TO FIRE ALARM SYSTEM THROUGH ADDRESSABLE MODULE
- FIRE PROTECTION SYSTEM ALARM BELL
- WALL MOUNTED STROBE VISUAL ALARM NOTIFICATION DEVICE, #CD = NUMBER INDICATES MINIMUM CANDELA FOR STROBE, MOUNT 80" AFF TO BOTTOM OF BOX OR 6" BELOW FINISHED CEILING TO TOP OF BOX WHICHEVER IS LOWER
- CEILING MOUNTED STROBE VISUAL ALARM NOTIFICATION DEVICE, #CD = NUMBER INDICATES MINIMUM CANDELA FOR STROBE
- WALL MOUNTED HORN/STROBE AUDIO/VISUAL ALARM NOTIFICATION DEVICE, H = HIGH DECIBEL RATING REQUIRED FOR HORN, #CD = NUMBER INDICATES MINIMUM CANDELA FOR STROBE, MOUNT 80" AFF TO BOTTOM OF BOX OR 6" BELOW FINISHED CEILING TO TOP OF BOX WHICHEVER IS LOWER
- CEILING MOUNTED HORN/STROBE AUDIO/VISUAL ALARM NOTIFICATION DEVICE, H = HIGH DECIBEL RATING REQUIRED FOR HORN, #CD = NUMBER INDICATES MINIMUM CANDELA FOR STROBE
- S — WALL MOUNTED SPEAKER/STROBE AUDIO/VISUAL ALARM NOTIFICATION DEVICE, MOUNT 80" AFF TO BOTTOM OF BOX OR 6" BELOW FINISHED CEILING TO TOP OF BOX WHICHEVER IS LOWER
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- NAC — FIRE ALARM NAC PANEL
- FSS — FIRE SUPPRESSION CONTROL PANEL
- RTS/I — DUCT DETECTOR REMOTE TEST SWITCH AND INDICATOR
- XX — SIGNAL CONNECTION, XX INDICATES AS FOLLOWS: DI - DISCRETE INPUT; DO - DISCRETE OUTPUT; AI - ANALOG INPUT; AO - ANALOG OUTPUT; EN - ETHERNET; CN - CONTROLNET; DN - DEVICENET; MB - MODBUS; AND SG - SIGNAL GENERIC
- X — REFERENCE TO KEY NOTE X
- # / EXXX — DETAIL CALLOUT, DETAIL # ON SHEET EXXX
- ST — SHUNT TRIP
- ZI — ZONE SELECTIVE INTERLOCK
- K — KIRK KEY INTERLOCK
- PLC — PLC CONNECTION
- FUSE
- SWITCH, SCHEMATIC
- CIRCUIT BREAKER
- DRAWOUT CIRCUIT BREAKER
- 52 — MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
- TRANSFORMER, SCHEMATIC
- GROUND CONNECTION
- CONTACT, NORMALLY OPEN
- CONTACT, NORMALLY CLOSED
- MALE CONTACT
- FEMALE CONTACT
- C — COIL
- XX — PANEL OR OTHER DISTRIBUTION EQUIPMENT
- CAMERA - FIXED
- CAMERA - FIXED WITH IP66 ENCLOSURE
- CAMERA - PTZ
- CAMERA - PTZ WITH IP66 ENCLOSURE
- CR — CARD READER
- DC — DOOR CONTACT
- ES — ELECTRIC STRIKE
- KP — KEY PAD
- ML — MAGNETIC LOCK
- MD — MOTION DETECTOR
- REX — REQUEST TO EXIT SENSOR
- NH — AMMONIA ALARM
- T — TEMPERATURE SENSOR
- PB — GREEN PUSH BUTTON TO RELEASE MAGNETIC LOCK
- PANIC ALARM LIGHT
- P — PANIC BUTTON
- PL — PANIC LOCK
- WB — WINDOW BREAK
- S — SOUNDER
- PUSHBUTTON, MOUNT 48" AFF TO TOP OF BOX
- IDCP — INTRUSION DETECTION CONTROL PANEL
- ACP — ACCESS CONTROL PANEL
- DVR — DIGITAL VIDEO RECORDER
- NVR — NETWORK VIDEO RECORDER
- IC — INTERCOM, SUBSCRIPT INDICATES AS FOLLOWS: (M) MASTER, (S) SUBSTATION
- PS — POWER SUPPLY, SUBSCRIPT INDICATES AS FOLLOWS: (I) INTRUSION DETECTION, (V) VIDEO SURVEILLANCE, (A) ACCESS CONTROL

## GENERAL NOTES

1. PROVIDE SEPARATE NEUTRALS FOR ALL 120V AND 277V BRANCH CIRCUITS. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE USED WITH THE EXCEPTION OF CONNECTIONS TO FURNITURE SYSTEMS.
2. MINIMUM BRANCH CIRCUIT WIRING TO BE SIZED FOR 3 PERCENT MAXIMUM VOLTAGE DROP. MINIMUM FEEDER WIRING TO BE SIZED FOR 2 PERCENT MAXIMUM VOLTAGE DROP.
3. MOUNTING HEIGHTS SHALL CONFORM WITH ADA GUIDELINES.
4. INSULATE AND SEAL CONDUIT PENETRATIONS BETWEEN SPACES AT DIFFERENT TEMPERATURES AND HUMIDITY LEVELS.
5. PROVIDE A PULL STRING IN ANY EMPTY CONDUIT RUNS.
6. MODIFY EXISTING FIRE ALARM SYSTEM AS SHOWN. SYSTEM SHALL REMAIN ACTIVE IN AREAS NOT BEING RENOVATED.
7. ROUGH IN FOR COMMUNICATION AND AV OUTLETS. SEE SKC COMMUNICATIONS DRAWINGS FOR REQUIREMENTS.

## GENERAL DEMOLITION NOTES

1. ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR COMPLETE REMOVAL OR RELOCATION OF EXISTING ELECTRICAL SYSTEMS AS INDICATED ON THE PLANS OR AS NECESSARY TO FACILITATE NEW CONSTRUCTION. AS USED HERE THE TERM ELECTRICAL SYSTEMS INCLUDES ALL LINE AND LOW VOLTAGE ELECTRICAL EQUIPMENT, FIXTURES, DEVICES, CONDUIT, WIRING, CABLES AND ASSOCIATED OTHER MATERIALS.
2. PLANS ARE DIAGRAMMATIC OF INTENT ONLY AND MAY NOT INDICATE ALL ELECTRICAL SYSTEMS TO BE REMOVED OR RELOCATED. EC SHALL VERIFY FIELD CONDITIONS PRIOR TO BID SUBMISSION AND INCLUDE ALL COSTS FOR DEMOLITION WORK. NO ADDITIONAL COST WILL BE ALLOWED POST-BID FOR FAILURE TO DO SO.
3. EC SHALL COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES. SEE DRAWINGS OF OTHER DIVISIONS FOR ADDITIONAL REQUIREMENTS.
4. REMOVAL OF ELECTRICAL SYSTEMS SHALL INCLUDE THE REMOVAL OF ALL ASSOCIATED EQUIPMENT AND MATERIALS THAT WILL NO LONGER BE IN USE SUCH AS DISCONNECTS, STARTERS, OR OTHER AUXILIARY DEVICES. CONDUIT SYSTEMS SHALL BE REMOVED IN ACCESSIBLE SPACES. CIRCUIT CONDUCTORS SHALL BE REMOVED TO THE POINT OF ORIGIN. CONDUCTORS SERVING OTHER LOADS REMAINING IN SERVICE MAY BE REMOVED TO AN APPROPRIATE JUNCTION POINT TO MAINTAIN CIRCUIT INTEGRITY.
5. EXCEPT AS OTHERWISE NOTED, ELECTRICAL DEMOLITION WORK SHALL INCLUDE LOW VOLTAGE ELECTRICAL SYSTEMS SUCH AS BUT NOT LIMITED TO COMMUNICATION, SECURITY, ALARM AND CONTROL. ALL ABANDONED LOW VOLTAGE CABLING SHALL BE REMOVED PER NEC REQUIREMENTS. VERIFY STATUS OF SYSTEMS WITH OWNER.
6. EC SHALL BE RESPONSIBLE TO COORDINATE REQUIREMENTS AND MAINTAIN IN SERVICE OR RELOCATE AS NECESSARY ANY AFFECTED ELECTRICAL SYSTEMS NECESSARY FOR ONGOING OPERATIONS DURING CONSTRUCTION.
7. SHUTDOWNS AND SERVICE INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AND GENERAL CONTRACTOR'S PROJECT MANAGER, AND APPROVED PRIOR TO WORK BEING PERFORMED.
8. EC SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF DEMOLISHED ELECTRICAL SYSTEMS INCLUDING ALL ASSOCIATED MATERIALS.
10. EXISTING FIXTURES TO BE RELOCATED SHALL BE CLEANED, PROVIDED WITH REPLACEMENT BALLASTS AND NEW LAMPS (IF FLUORESCENT), AND TESTED FOR CORRECT OPERATION PRIOR TO REINSTALLATION.
11. EC SHALL BE RESPONSIBLE FOR INSTALLATION AND REMOVAL OF TEMPORARY EXIT AND EGRESS LIGHTING FIXTURES AS REQUIRED TO MAINTAIN SAFE CODE-COMPLIANT OPERATING CONDITIONS DURING CONSTRUCTION.

## ELECTRICAL DRAWING INDEX


| | |
|---|---|
| E001 | ABBREVIATIONS, SYMBOLS & NOTES |
| E101 | DEMOLITION PLAN |
| E102 | DEMOLITION PLAN |
| E201 | LIGHTING PLAN |
| E211 | POWER AND SYSTEMS PLAN |
| E301 | PANEL SCHEDULES |
| E801 | ELECTRICAL SCHEDULES |
| E802 | ELECTRICAL SCHEDULES |



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| DATE: 1-6-20 | JOB NO. 50-1414-19 |
| DWG By: EGP | CHK'D By: TJM |

SHEET TITLE
ABBREVIATIONS SYMBOLS & NOTES

PRELIMINARY DWGS. |
FINAL CONST. DWGS. |

SHEET NUMBER
E001

ELECTRICAL

## GENERAL NOTES

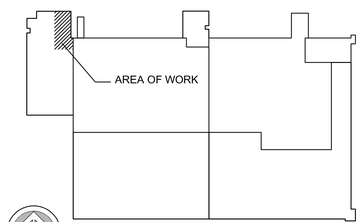
1. SEE APPLICABLE NOTES ON SHEET E001.

NORTH

1 LIGHTING DEMOLITION PLAN

1/8" = 1'-0"

0 4' 8' 16'




KEY PLAN

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| DWG By: | CHK'D By: |
| EGP | TJM |

SHEET TITLE

DEMOLITION

PRELIMINARY DWGS.

FINAL CONST. DWGS. ■

SHEET NUMBER

E101

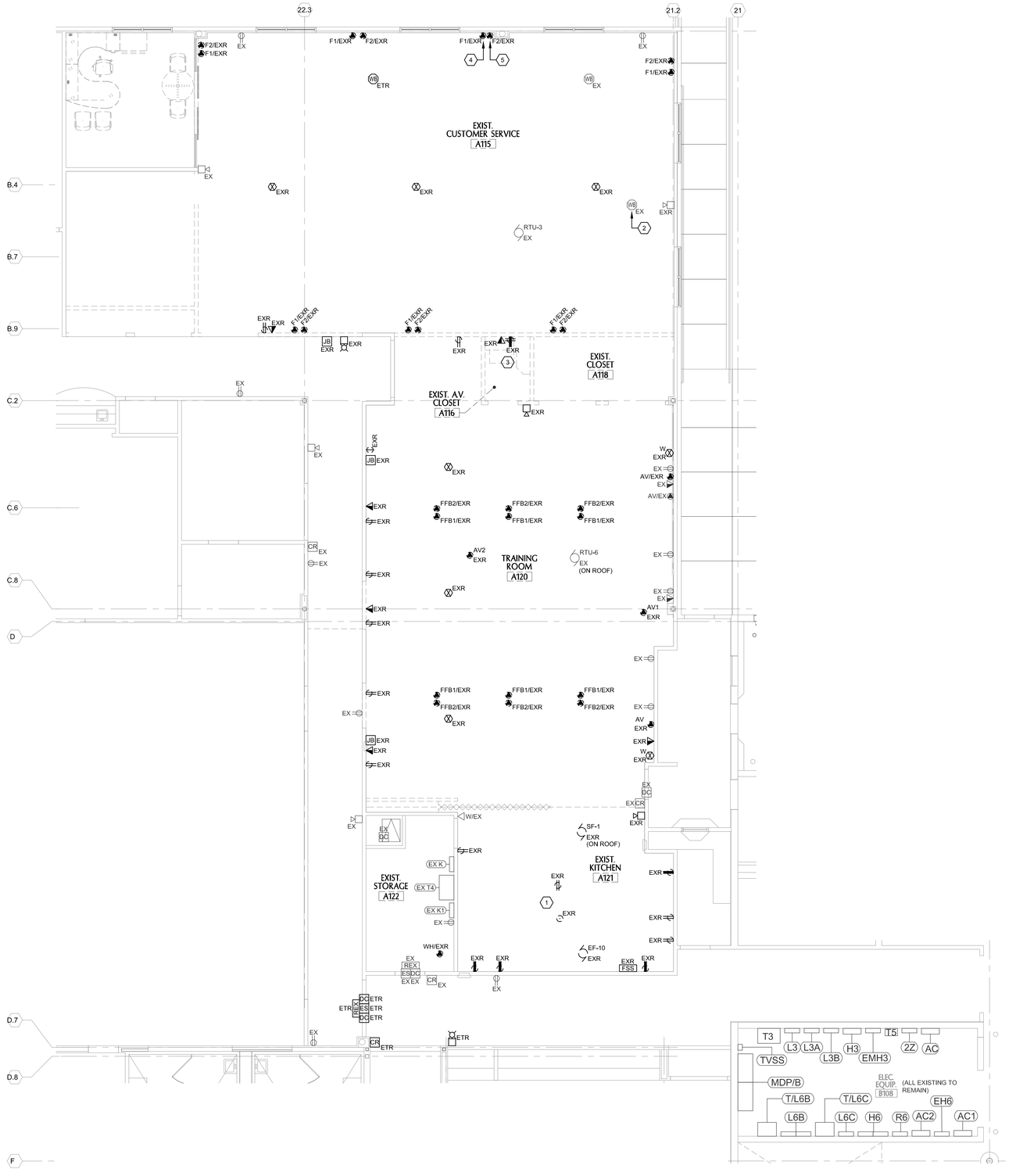
ELECTRICAL

## GENERAL NOTES

1. SEE APPLICABLE NOTES ON SHEET E001.
2. RELOCATE, REPLACE AND REWORK EXISTING ELECTRICAL, FIRE ALARM, SECURITY, COMMUNICATIONS AND CONTROL SYSTEMS AS REQUIRED TO MAINTAIN SYSTEM INTEGRITY IN ALL RENOVATED AREAS.
3. REMOVE EXISTING ABANDONED LOW VOLTAGE CABLING, VOICE AND DATA CABLE TO BE REMOVED FROM JACK TO PATCH PANEL IN EXISTING SERVER ROOM.

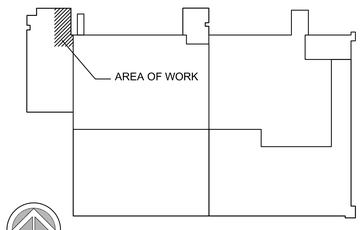
## KEY NOTES - THIS SHEET ONLY

1. DISCONNECT AND REMOVE ELECTRICAL OUTLETS AND HARD WIRED CONNECTIONS TO ALL KITCHEN EQUIPMENT IN THIS AREA.
2. TEMPORARILY SUSPEND SECURITY SYSTEM SENSORS AND REINSTALL IN NEW CEILING TILE. TYPICAL OF (2).
3. REMOVE AV EQUIPMENT CABINET. TURN EQUIPMENT OVER TO OWNER.
4. FURNITURE SYSTEM POWER FEED TO BE REMOVED. TYPICAL OF (7).
5. FURNITURE SYSTEM TELECOMMUNICATIONS FEED TO BE REMOVED. TYPICAL OF (7).




NORTH

1 POWER AND SYSTEMS DEMOLITION PLAN
1/8" = 1'-0"
0 4' 8' 16'

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| DATE | JOB NO. |
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| 1-6-20 | 50-1414-19 |
| DWG By: EGP | CHK'D By: TJM |

SHEET TITLE
DEMOLITION

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
E102

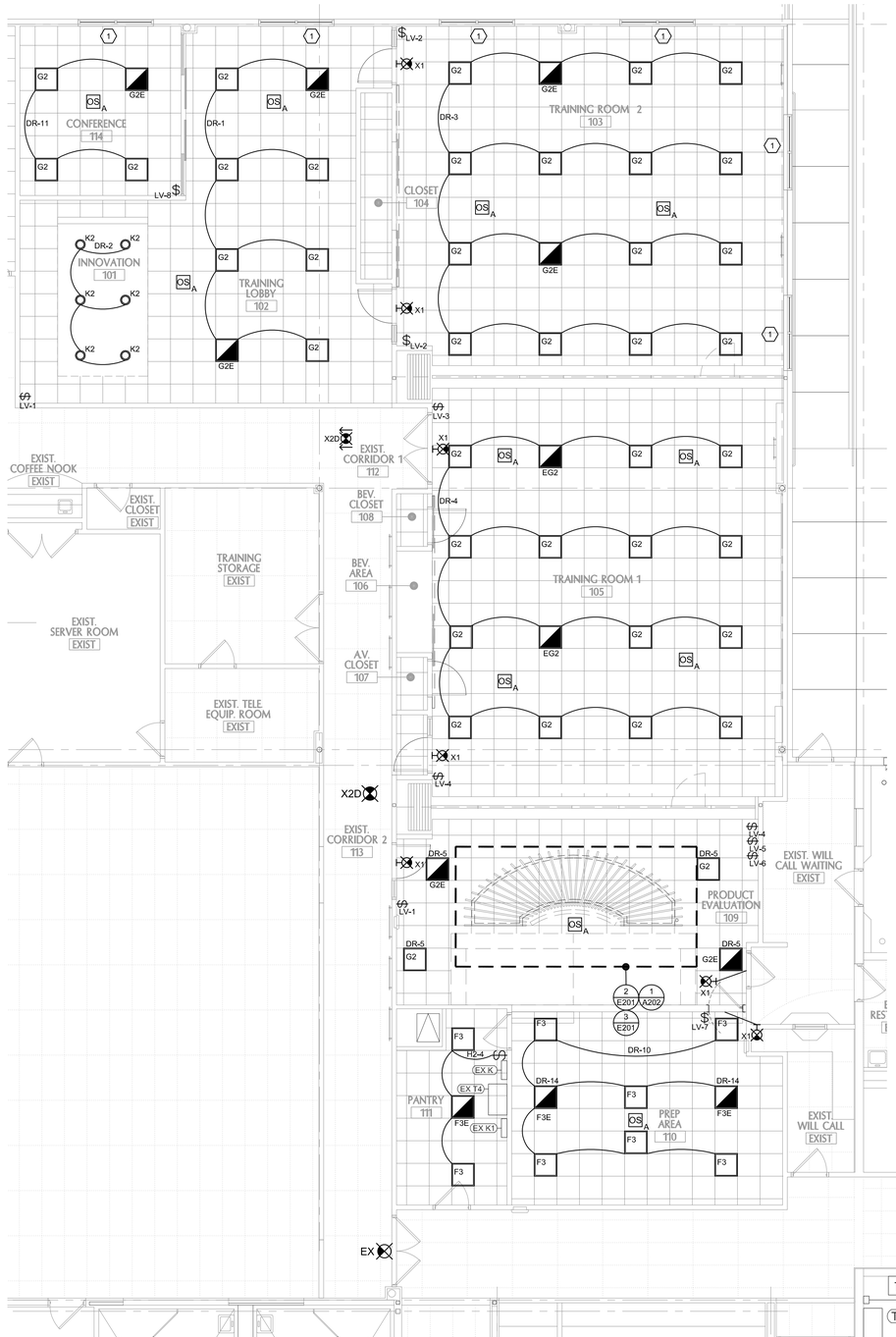
ELECTRICAL

## GENERAL NOTES

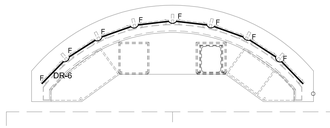
1. SEE APPLICABLE NOTES ON SHEET E001.
2. ALL EMERGENCY LIGHTING AND EXIT LIGHTS ARE CIRCUITED TO EH6-13.
4. FOR ALL EMERGENCY LIGHT FIXTURES, PROVIDE (1) WATTSTOPPER ELCU-200 PER ROOM TO ALLOW LOCAL LIGHTING CONTROL DEVICES TO CONTROL EMERGENCY LIGHT FIXTURE(S) WHEN NORMAL POWER IS PRESENT. EMERGENCY LIGHT FIXTURES SHALL COME ON WHEN NORMAL POWER IS LOST.
5. SEE SHEET E802 FOR LIGHTING CONTROL MATRIX AND SEQUENCE OF OPERATION.

## KEY NOTES - THIS SHEET ONLY

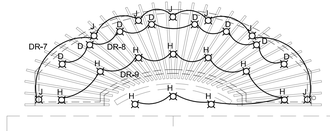
1. DAYLIGHT ZONE IS LESS THAN 150W AND THEREFORE NOT REQUIRED.
2. ALL PANELS IN ROOM B108 ARE EXISTING.



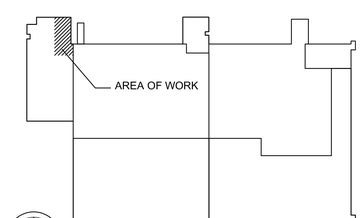

1 LIGHTING PLAN
3/16" = 1'-0"



2 COUNTER LIGHTING
1/4" = 1'-0"



3 TRELLIS LIGHTING
1/4" = 1'-0"




KEY PLAN
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SMART BUILDING SOLUTIONS
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Eng. Bus. Lic. Nbr. 28045
950 Walnut Ridge Drive | Hartland, WI 53029 | 262.369.3535 T | 262.369.3592 F

US FOODS

KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS
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| DATE: 1-6-20 | JOB NO. 50-1414-19 |
|---|---|
| DWG By: EGP | CHK'D By: TJM |

SHEET TITLE
LIGHTING PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
E201

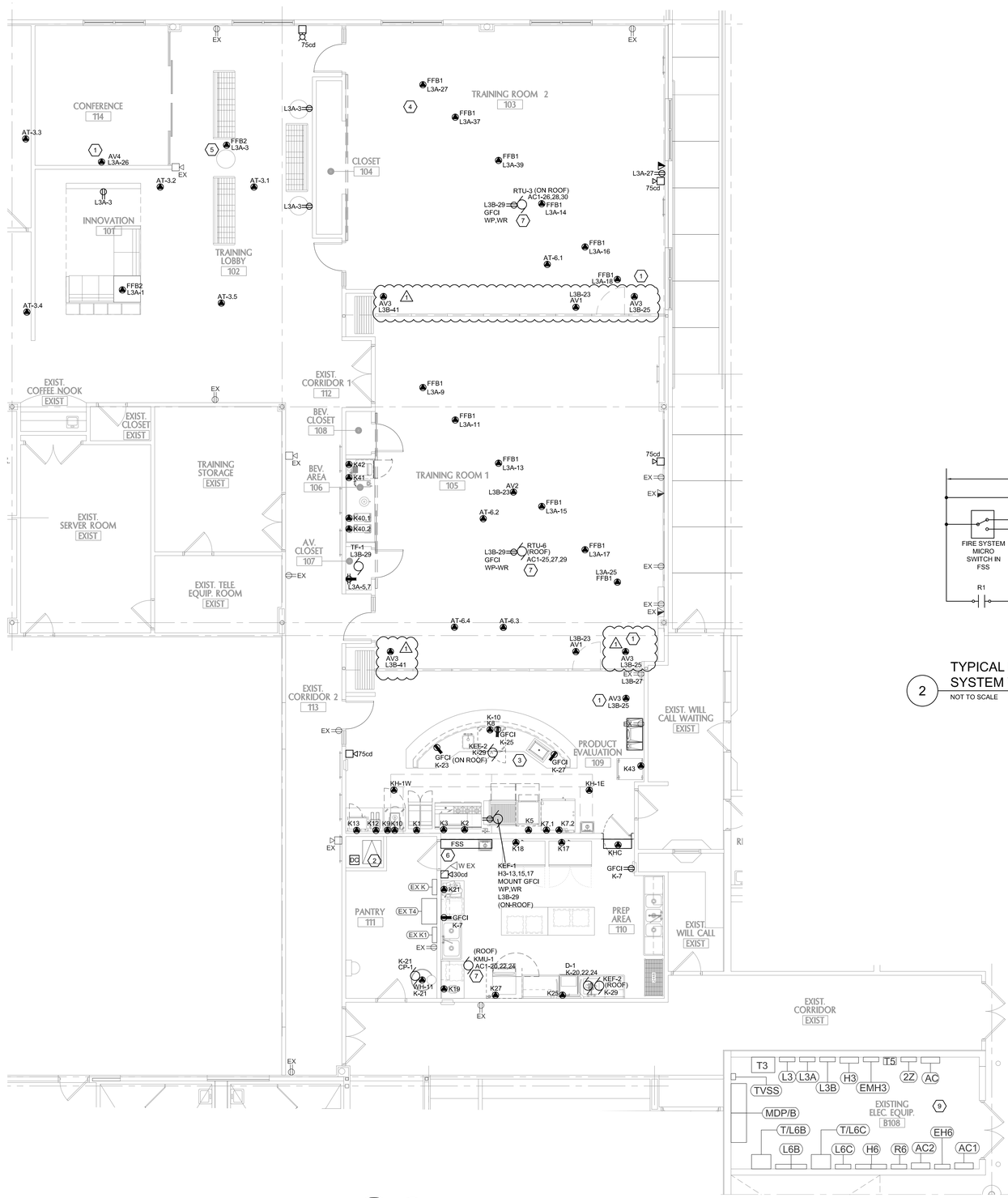
ELECTRICAL

## GENERAL NOTES

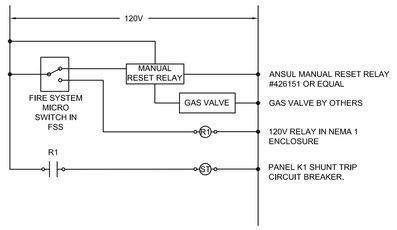
1. SEE APPLICABLE NOTES ON SHEET E001.

## KEY NOTES - THIS SHEET ONLY

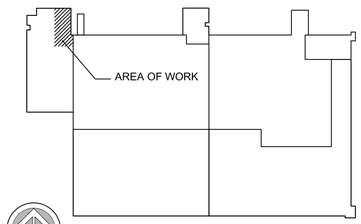
1. SEE SKC COMMUNICATIONS AV DRAWINGS FOR ROUGH-IN REQUIREMENT LOCATIONS FOR ALL AV EQUIPMENT.
2. DOOR CONTACT FOR ROOF HATCH.
3. INSTALL PVC CONDUIT UNDER SLAB FOR ALL CIRCUITS FROM CENTER CABINETS TO INSIDE NEAREST WALL. TRANSITION TO EMT CONDUIT INSIDE WALL. RUN CONDUIT UP WALL TO ABOVE CEILING.
4. INSTALL PVC CONDUIT UNDERGROUND FOR ALL FLOOR BOXES. TRANSITION TO EMT CONDUIT INSIDE WALL. RUN CONDUIT UP WALL TO ABOVE CEILING. TYPICAL OF 12.
5. INSTALL PVC CONDUITS (ONE FOR POWER AND ONE FOR DATA) TO NEAREST WALL. TRANSITION TO EMT CONDUIT INSIDE WALL. RUN CONDUIT UP WALL TO ABOVE CEILING. TYPICAL OF TWO.
6. FIRE SUPPRESSION CABINET PROVIDED BY MECHANICAL CONTRACTOR. SEE DETAIL 2 ON THIS SHEET.
7. PROVIDE FIRE ALARM SMOKE DETECTOR FOR SUPPLY AND DISCHARGE AIR. RTU, GFCI RECEPTACLE IS MOUNTED ON ROOF.
8. PROVIDE FIRE ALARM SMOKE DETECTOR FOR SUPPLY AIR. CONNECT SMOKE DETECTOR TO FIRE ALARM SYSTEM AND PROVIDE A SET OF CONTACTS FOR KMU-1 SHUTDOWN WIRED BY MECHANICAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
9. ALL PANELS IN ROOM B108 ARE EXISTING.




1 POWER AND SYSTEMS PLAN
3/16" = 1'-0"




2 TYPICAL KITCHEN FIRE SUPPRESSION SYSTEM WIRING DETAIL
NOT TO SCALE




KEY PLAN
NOT TO SCALE


ESI ARCHITECTURAL & ENGINEERING SERVICES INC.
SMART BUILDING SOLUTIONS
Arch. Bus. Lic. Nbr. AA26001599
Eng. Bus. Lic. Nbr. 28045
950 Walnut Ridge Drive | Hartland, WI 53029 | 262.369.3535 T | 262.369.3592 F


KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS

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|---|---|
| 1 | 02-17-20 – ADDENDUM #1 |
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|---|---|
| DATE: 1-6-20 | JOB NO. 50-1414-19 |
| DWG By: EGP | CHK'D By: TJM |

SHEET TITLE
POWER AND SYSTEMS PLAN

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
E211

ELECTRICAL

## EXISTING PANEL H3 -- 480Y/277V 3PH 4W 100A

| CCT. NO. | BRKR. | DESCRIPTION | PHASE LOADING (KVA) A | | PHASE LOADING (KVA) B | | PHASE LOADING (KVA) C | | DESCRIPTION | BRKR. | CCT. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | MEETING ROOM LIGHTS | | 0.55 | | | | | **LIGHTING, TRAINING, INNOVATION, PREP, KITCHEN** | **20/1** | 2 |
| 3 | 20/1 | LOBBY/CONF RM LIGHTS | | | | 0.99 | | | **LIGHTING TRAINING CENTER** | **20/1** | 4 |
| 5 | 20/1 | TOILET/ELEC RM LIGHTS | | | | | | | OFFICE LIGHTS | 20/1 | 6 |
| 7 | 20/1 | CORRIDOR LIGHTS | | | | | | | OFFICE LIGHTS | 20/1 | 8 |
| 9 | 20/1 | LUNCH RM/MAINT LIGHTS | | | | | | | EMERG LIGHTS DRY STORAGE | 20/1 | 10 |
| 11 | 20/1 | CORRIDOR LIGHTS | | | | | | | FLAG POLE LIGHTS | 20/1 | 12 |
| 13 | 15/3 | KEF-1 | 2.11 | | | | | | CONDENSER UNIT #1 | 30/3 | 14 |
| 15 | \| | \| | | | 2.11 | | | | \| | \| | 16 |
| 17 | \| | \| | | | | | 2.11 | | \| | \| | 18 |
| 19 | 20/1 | | | | | | | | PRINTER ROOM UNIT #1 | 15/3 | 20 |
| 21 | 20/1 | EXTERIOR LIGHTS | | | | | | | \| | \| | 22 |
| 23 | 30/1 | SITE LIGHTS POLE | | | | | | | \| | \| | 24 |
| 25 | 30/1 | SITE LIGHTS POLE | | | | | | | OVERHEAD DOORS | 20/3 | 26 |
| 27 | 30/1 | SITE LIGHTS POLE | | | | | | | \| | \| | 28 |
| 29 | - | - | | | | | | | \| | \| | 30 |

**RATING**

100 A 480Y/277 V 3 PH 4 W

MAIN LUGS MIN. AIC RATING 30,000 A

**CONNECTED LOAD**

PHASE A: 2.66 KVA
PHASE B: 3.10 KVA
PHASE C: 2.11 KVA
TOTAL KVA: 7.86 KVA
TOTAL A: 9 A AT 480V, 3PH

**NOTES**

1) EXISTING SIEMENS S3 PANELBOARD.

2) NEW CIRCUITS ARE SHOWN IN BOLD, ONLY NEW LOADS ARE SHOWN.

3) CONTRACTOR TO METER PANEL DEMAND IN ACCORDANCE WITH NEC 220.87 (1) EXCEPTION TO CONFIRM ADEQUATE CAPACITY.

## EXISTING PANEL AC1 -- 480V 3PH 3W 400A

| CCT. NO. | BRKR. | DESCRIPTION | PHASE LOADING (KVA) A | | PHASE LOADING (KVA) B | | PHASE LOADING (KVA) C | | DESCRIPTION | BRKR. | CCT. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50/3 | RTU-11.1 | 9.98 | 9.98 | | | | | RTU-11.2 | 50/3 | 2 |
| 3 | \| | \| | | | 9.98 | 9.98 | | | \| | \| | 4 |
| 5 | \| | \| | | | | | 9.98 | 9.98 | \| | \| | 6 |
| 7 | 50/3 | RTU-11.3 | 9.98 | 14.97 | | | | | RTU-11.4 | 60/3 | 8 |
| 9 | \| | \| | | | 9.98 | 14.97 | | | \| | \| | 10 |
| 11 | \| | \| | | | | | 9.98 | 14.97 | \| | \| | 12 |
| 13 | 60/3 | RTU-11.5 | 14.97 | | | | | | RTU-11.6 | 60/3 | 14 |
| 15 | \| | \| | | | 14.97 | | | | \| | \| | 16 |
| 17 | \| | \| | | | | | 14.97 | | \| | \| | 18 |
| 19 | 20/3 | RTU-12 | 3.96 | 20.31 | | | | | **KMU-1** | **80/3** | 20 |
| 21 | \| | \| | | | 3.96 | 20.31 | | | \| | \| | 22 |
| 23 | \| | \| | | | | | 3.96 | 20.31 | \| | \| | 24 |
| 25 | **45/3** | **RTU-6** | 9.70 | 9.15 | | | | | **RTU-3** | **35/3** | 26 |
| 27 | \| | \| | | | 9.70 | 9.15 | | | \| | \| | 28 |
| 29 | \| | \| | | | | | 9.70 | 9.15 | \| | \| | 30 |

**RATING**

400 A 480V V 3 PH 3 W

MAIN LUGS MIN. AIC RATING 22,000 A

**CONNECTED LOAD**

PHASE A: 102.98 KVA
PHASE B: 102.98 KVA
PHASE C: 102.98 KVA
TOTAL KVA: 308.95 KVA
TOTAL A: 372 A AT 480V, 3PH

**NOTES**

1) EXISTING SIEMENS S3 PANELBOARD.

2) PROVIDE NEW BREAKERS WHERE SHOWN IN BOLD.

3) CONTRACTOR TO METER PANEL DEMAND IN ACCORDANCE WITH NEC 220.87 (1) EXCEPTION TO CONFIRM ADEQUATE CAPACITY.

## EXISTING PANEL H6R -- 480Y/277V 3PH 4W 400A

| CCT. NO. | BRKR. | DESCRIPTION | PHASE LOADING (KVA) A | | PHASE LOADING (KVA) B | | PHASE LOADING (KVA) C | | DESCRIPTION | BRKR. | CCT. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | 20/3 | WATER HEATER WH-1 | | | | | | | SPLIT SYSTEM SS-10 | 20/3 | 44 |
| 45 | \| | \| | | | | | | | \| | \| | 46 |
| 47 | \| | \| | | | | | | | \| | \| | 48 |
| 49 | 20/3 | WATER HEATER WH-2 | | | | | | | VAV 5-1, 5-4 | 20/1 | 50 |
| 51 | \| | \| | | | | | | | VAV 5-2 | 20/1 | 52 |
| 53 | \| | \| | | | | | | | VAV 5-3 | 20/1 | 54 |
| 55 | 50/3 | PANEL L6A VIA T/L6A | | | | | | | VAV 5-5 | 15/3 | 56 |
| 57 | \| | \| | | | | | | | \| | \| | 58 |
| 59 | \| | \| | | | | | | | \| | \| | 60 |
| 61 | 70/3 | PANEL L6C VIA T/L6C | | | | | | | VAV 5-6 | 20/1 | 62 |
| 63 | \| | \| | | | | | | | VAV12-3, 12-4 | 20/1 | 64 |
| 65 | \| | \| | | | | | | | EXISTING | 20/1 | 66 |
| 67 | 15/1 | VAV 7-1 | | 1.88 | | | | | **POWER EXHAUST PE-1** | **15/3** | 68 |
| 69 | 20/1 | VAV 7-2, 7-4 | | | | 1.88 | | | \| | \| | 70 |
| 71 | 20/1 | VAV 7-3 | | | | | | 1.88 | \| | \| | 72 |
| 73 | 20/1 | VAV 7-5, 7-6 | | | | | | | - | - | 74 |
| 75 | 20/1 | VAV 12-1 | | | | | | | - | - | 76 |
| 77 | 20/1 | VAV 12-2 | | | | | | | - | - | 78 |
| 79 | **15/3** | **VENTILATOR KEF-1** | 2.11 | | | | | | - | - | 80 |
| 81 | \| | \| | | | 2.11 | | | | - | - | 82 |
| 83 | \| | \| | | | | | 2.11 | | - | - | 84 |

**RATING**

400 A 480Y/277 V 3 PH 4 W

MAIN LUG MIN. AIC RATING 35,000 A

**CONNECTED LOAD**

PHASE A: 3.99 KVA
PHASE B: 3.99 KVA
PHASE C: 3.99 KVA
TOTAL KVA: 11.97 KVA
TOTAL A: 14 A AT 480V, 3PH

**NOTES**

1) EXISTING SIEMENS S3 PANELBOARD.

2) PROVIDE NEW BREAKERS WHERE SHOWN IN BOLD.

**NOTES:**

1) EXISTING SIEMENS TYPE 'P3' PANEL
2) USE TYPE 'NEB' BREAKERS
3) NEW LOADS ARE SHOWN IN BOLD
4) LOAD TOTALS SHOW NEW LOADS ONLY
5) CONTRACTOR TO METER PANEL DEMAND IN ACCORDANCE WITH NEC 220.87 (1) EXCEPTION TO CONFIRM ADEQUATE CAPACITY.

## EXISTING PANEL L3A -- 208Y/120V 3PH 4W 125A

| CCT. NO. | BRKR. | DESCRIPTION | PHASE LOADING (KVA) A | | PHASE LOADING (KVA) B | | PHASE LOADING (KVA) C | | DESCRIPTION | BRKR. | CCT. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **20/1** | **RECEPTACLES INNOVATION** | 0.18 | | | | | | RECEPTACLES ACCT.&PUR., TVSS | 20/1 | 2 |
| 3 | **20/1** | **RECEPTACLES TRAINING LOBBY** | | | 0.72 | | | | RECEPTACLES ACCT.&PUR., TVSS | 20/1 | 4 |
| 5 | **20/1** | **AV RACK RECEPTACLES** | | | | | 1.00 | | RECEPTACLES ACCT.&PUR., TVSS | 20/1 | 6 |
| 7 | **20/1** | **AV RACK RECEPTACLES** | 1.00 | | | | | | RECEPTACLES ACCT. & PUR. | 20/1 | 8 |
| 9 | **20/1** | **TRAINING ROOM 1 FLOOR RECEPTACLES ROW 1** | | | 1.00 | | | | RECEPTACLES ACCT. & PUR. | 20/1 | 10 |
| 11 | **20/1** | **TRAINING ROOM 1 FLOOR RECEPTACLES ROW 2** | | | | | 1.00 | | RECEPTACLES ACCT. & PUR. | 20/1 | 12 |
| 13 | **20/1** | **TRAINING ROOM 1 FLOOR RECEPTACLES ROW 3** | 1.00 | 1.00 | | | | | **TRAINING ROOM 2 FLOOR RECEPTACLES ROW 4** | **20/1** | 14 |
| 15 | **20/1** | **TRAINING ROOM 1 FLOOR RECEPTACLES ROW 4** | | | 1.00 | 1.00 | | | **TRAINING ROOM 2 FLOOR RECEPTACLES ROW 5** | **20/1** | 16 |
| 17 | **20/1** | **TRAINING ROOM 1 FLOOR RECEPTACLES ROW 5** | | | | | 1.00 | 1.00 | **TRAINING ROOM 2 FLOOR RECEPTACLES ROW 6** | **20/1** | 18 |
| 19 | 20/1 | RECEP SALES/ACCT. SERVICE | | | | | | | RECEP SALES/CUST. SERVICE | 20/1 | 20 |
| 21 | 20/1 | RECEP SALES/ACCT. SERVICE | | | | | | | RECEP SALES/CUST. SERVICE | 20/1 | 22 |
| 23 | 20/1 | RECEP SALES/ACCT. SERVICE | | | | | | | RECEP SALES/CUST. SERVICE | 20/1 | 24 |
| 25 | **20/1** | **TRAINING ROOM 1 FLOOR RECEPTACLES ROW 6** | 1.00 | 0.20 | | | | | **RECEPTACLE, MONITOR A113** | **20/1** | 26 |
| 27 | **20/1** | **TRAINING ROOM 2 FLOOR RECEPTACLES ROW 1** | | | 1.00 | | | | RECEP ACCT/PURCHASING | 20/1 | 28 |
| 29 | 20/1 | RECEPTACLES ROOF RTUS | | | | | | | RECEP ACCT/PURCHASING | 20/1 | 30 |
| 31 | 30/2 | XEROX COPIER | | | | | | | RECEP SALESMEN OFFICE | 20/1 | 32 |
| 33 | \| | \| | | | | | | | RECEP SALESMEN OFFICE | 20/1 | 34 |
| 35 | 20/1 | EXHAUST FAN #3 | | | | | | | RECEP SALESMEN OFFICE | 20/1 | 36 |
| 37 | 20/1 | **TRAINING ROOM 2 FLOOR RECEPTACLES ROW 2** | 1.00 | - | | | | | - | | 38 |
| 39 | 20/1 | **TRAINING ROOM 2 FLOOR RECEPTACLES ROW 3** | | | 1.00 | - | | | - | | 40 |
| 41 | | - | | | | | - | - | - | | 42 |

**RATING**

125 A 208Y/120 V 3 PH 4 W

MAIN BREAKER MIN. AIC RATING 18,000 A

**CONNECTED LOAD**

PHASE A: 5.38 KVA
PHASE B: 5.72 KVA
PHASE C: 4.00 KVA
TOTAL KVA: 15.10 KVA
TOTAL A: 42 A AT 208V, 3PH

**NOTES**

1) SIEMENS S1 PANELBOARD.

2) NEW CIRCUITS ARE SHOWN IN BOLD, ONLY NEW LOADS ARE SHOWN.

3) CONTRACTOR TO METER PANEL DEMAND IN ACCORDANCE WITH NEC 220.87 (1) EXCEPTION TO CONFIRM ADEQUATE CAPACITY.

## 1 EXISTING PANEL PANEL L3B -- 208Y/120V 3PH 4W 125A

| CCT. NO. | BRKR. | DESCRIPTION | PHASE LOADING (KVA) A | | PHASE LOADING (KVA) B | | PHASE LOADING (KVA) C | | DESCRIPTION | BRKR. | CCT. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | SALES OFFICE | | | | | | | TVSS | 20/1 | 2 |
| 3 | 20/1 | RECEPT TOILETS/EWC/SALES | | | | | | | TVSS | 20/1 | 4 |
| 5 | 20/1 | RECEPTACLES WAREHOUSE | | | | | | | TVSS | 20/1 | 6 |
| 7 | 20/1 | RECEPTACLES WAREHOUSE | | | | | | | GATE OPERATOR | 20/3 | 8 |
| 9 | 20/1 | EXHAUST FAN #6 | | | | | | | \| | \| | 10 |
| 11 | 20/1 | SE #1/SE #2 | | | | | | | \| | \| | 12 |
| 13 | 20/1 | RECEP SALVAGE/MACH SHOP | | | | | | | RECEPTACLE FRONT OFFICE | 20/1 | 14 |
| 15 | 20/3 | WATER HEATER | | | | | | | RECEPTACLE FRONT OFFICE | 20/1 | 16 |
| 17 | \| | \| | | | | | | | RECEPTACLE FRONT OFFICE | 20/1 | 18 |
| 19 | \| | \| | | | | | | | LOBBY LIGHTS / NEW GATE | 20/1 | 20 |
| 21 | 20/1 | RTU TIME CLOCKS | | | | | | | RTU TIME CLOCKS/HYDRO PNL | 20/1 | 22 |
| 23 | **15/1** | **PROJECTOR AND SCREEN** | | | | | 0.94 | 0.36 | RECEPTACLE MEETING ROOM | 20/1 | 24 |
| 25 | **20/1** | **LCD MONITORS** | 1.30 | 0.60 | | | | | **PROJECTION SCREEN AV1** | 20/1 | 26 |
| 27 | 20/1 | PRODUCT EVAL RECEPT | | | 0.36 | 0.36 | | | RECEPTACLE MEETING ROOM | 20/1 | 28 |
| 29 | **20/1** | **RECEPTACLES, ROOFTOP** | | | | | 0.54 | 0.36 | RECEPTACLE MEETING ROOM | 20/1 | 30 |
| 31 | **15/1** | **TRANSFER FAN TF-1** | 0.40 | 0.80 | | | | | **PROJECTOR AV2** | 20/1 | 32 |
| 33 | 20/1 | SOUND & SECURITY | | | | 0.60 | | | **LCD MONITORS AV3** | 20/1 | 34 |
| 35 | 20/1 | SOUND & SECURITY | | | | | | - | - | - | 36 |
| 37 | 20/1 | SOUND & SECURITY | | | | | | | - | - | 38 |
| 39 | 30/1 | PHONE EQUIPMENT | | | | | | | - | - | 40 |
| 41 | **20/1** | **LCD MONITORS** | | | | | 1.30 | - | - | - | 42 |

**RATING**

125 A 208Y/120 V 3 PH 4 W

MAIN BREAKER MIN. AIC RATING 18,000 A

**CONNECTED LOAD**

PHASE A: 3.10 KVA
PHASE B: 1.32 KVA
PHASE C: 3.50 KVA
TOTAL KVA: 7.92 KVA
TOTAL A: 22 A AT 208V, 3PH

**NOTES**

1) SIEMENS S1 PANELBOARD.

2) NEW CIRCUITS ARE SHOWN IN BOLD, ONLY NEW LOADS ARE SHOWN.

3) CONTRACTOR TO METER PANEL DEMAND IN ACCORDANCE WITH NEC 220.87 (1) EXCEPTION TO CONFIRM ADEQUATE CAPACITY.

## EXISTING PANEL K -- 208Y/120V 3PH 4W 150A

| CCT. NO. | BRKR. | DESCRIPTION | PHASE LOADING (KVA) A | | PHASE LOADING (KVA) B | | PHASE LOADING (KVA) C | | DESCRIPTION | BRKR. | CCT. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | PRODUCT EVALUATION COUNTER LIGHTING | 0.24 | 0.36 | | | | | SLICER K21 | 20/1 GFI | 2 |
| 3 | 20/1 | AIR TERMINAL UNITS AT-6.1, AT-6.2, AT-6.3, AT-6.4, AT-3.1 | | | 0.60 | - | | | - | - | 4 |
| 5 | 20/1 | AIR TERMINAL UNITS AT-3.2, AT-3.3, AT-3.4, AT-3.5 | | | | | 0.48 | 0.67 | ICE MAKER K27 | 20/1 GFI | 6 |
| 7 | 20/1 | PREP RECEPTACLES | 0.36 | - | | | | | SPARE | 20/1 | 8 |
| 9 | 20/1 GFI | REFRIGERATOR UNDERCOUNTER K8 | | | 0.25 | 1.73 | | | ICE TEA BREWER K40.1 | 20/1 GFI | 10 |
| 11 | 20/1 GFI | 4 SLICE TOASTER K12 | | | | | 1.44 | 1.73 | ICE TEA BREWER K40.2 | 20/1 GFI | 12 |
| 13 | 20/1 GFI | MICROWAVE K13 | 1.56 | 1.37 | | | | | COFFEE BREWER K41 | 20/1 GFI | 14 |
| 15 | 20/1 GFI | REACH-IN REFRIGERATOR K17 | | | 1.14 | 0.28 | | | UNDERCOUNTER REFRIGERATOR K42 | 20/1 GFI | 16 |
| 17 | 20/1 GFI | REACH-IN FREEZER K18 | | | | | 0.90 | 1.92 | HEATED HOLDING & PROOFING CABINET K43 | 20/1 GFI | 18 |
| 19 | 20/1 GFI | COUNTERTOP POWER MIXER K19 | 0.60 | 0.90 | | | | | DISPOSER | 15/3 | 20 |
| 21 | 20/1 | WATER HEATER, CIRCULATION PUMP WH-11, CP-1 | | | 0.12 | 0.90 | | | \| | \| | 22 |
| 23 | 20/1 | RECEPTACLES, COUNTER | | | . | | 0.18 | 0.90 | \| | \| | 24 |
| 25 | 20/1 | RECEPTACLES, COUNTER | 0.18 | - | | | | | - | - | 26 |
| 27 | 20/1 | RECEPTACLES, COUNTER | | | 0.18 | - | | | - | - | 28 |
| 29 | 15/1 | VENTALATOR KEF-2 | | | | | 0.02 | - | - | - | 30 |
| 31 | 15/1 | HOOD CONTROL PANEL KHC | 0.15 | - | | | | | - | - | 32 |
| 33 | - | - | | | - | - | | | - | - | 34 |
| 35 | - | - | | | | | - | - | - | - | 36 |
| 37 | - | - | - | | | | | | - | - | 38 |
| 39 | - | - | | | - | | | | - | - | 40 |
| 41 | - | - | | | | | - | - | - | - | 42 |

**RATING**

150 A 208Y/120 V 3 PH 4 W

MAIN BREAKER MIN. AIC RATING 10,000 A

**CONNECTED LOAD**

PHASE A: 5.71 KVA
PHASE B: 5.20 KVA
PHASE C: 8.24 KVA
TOTAL KVA: 19.16 KVA
TOTAL A: 53 A AT 208V, 3PH

**CALCULATED LOAD WITH NEC DEMAND FACTORS**

CONTINUOUS LOAD X 125% 0.30 KVA
NON-CONTINUOUS LOAD 1.37 KVA
EXISTING LOAD X 125% 0.00 KVA
RECEPTACLE LOAD, ≤ 10 KVA 0.90 KVA
RECEPTACLE LOAD >10KVA @ 50% 0.00 KVA
KITCHEN LOAD @ 100% 16.65 KVA
PLUS 25% OF LARGEST MOTOR 0.00 KVA
TOTAL KVA 19.21 KVA
TOTAL A AT 208V, 3PH 53 A

**NOTES:**

1) EXISTING MAIN BREAKER SIEMENS 'S1' PANEL.
2) ALL LOADS ARE NEW.

## EXISTING PANEL K1 -- 208Y/120V 3PH 4W 150A

| CCT. NO. | BRKR. | DESCRIPTION | PHASE LOADING (KVA) A | | PHASE LOADING (KVA) B | | PHASE LOADING (KVA) C | | DESCRIPTION | BRKR. | CCT. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 GFI | FRYER K1 | 0.72 | 0.33 | | | | | DOUBLE STACKED COMBO OVEN K7.1 | 20/3 | 2 |
| 3 | 20/1 GFI | RANGE WITH OVEN K2 | | | 0.72 | 0.33 | | | \| | \| | 4 |
| 5 | 20/1 GFI | CHEESE MELTER K3 | | | | | 1.20 | 0.33 | \| | \| | 6 |
| 7 | 30/2 | COUNTER TOP ELECTRIC OVEN K5 | 2.53 | 0.33 | | | | | DOUBLE STACKED COMBO OVEN K7.2 | 20/3 | 8 |
| 9 | \| | \| | | | 2.53 | 0.33 | | | \| | \| | 10 |
| 11 | 20/1 GFI | REFRIGERATOR BASE K6 | | | | | 0.36 | 0.33 | \| | \| | 12 |
| 13 | 15/1 | LIGHTING KH-1E, KH-1W | 0.40 | 0.50 | | | | | BULB WARMER K10 | 20/1 GFI | 14 |
| 15 | - | - | | | - | 0.42 | | | FREEZER UNDERCOUNTER K9 | 20/1 GFI | 16 |
| 17 | - | - | | | | | - | - | - | - | 18 |
| 19 | - | - | - | - | | | | | - | - | 20 |
| 21 | - | - | | | - | - | | | - | - | 22 |
| 23 | - | - | | | | | - | - | - | - | 24 |
| 25 | - | - | - | - | | | | | - | - | 26 |
| 27 | - | - | | | - | - | | | - | - | 28 |
| 29 | - | - | | | | | - | - | - | - | 30 |

**RATING**

150 A 208Y/120 V 3 PH 4 W

MAIN BREAKER MIN. AIC RATING 10,000 A

**CONNECTED LOAD**

PHASE A: 4.81 KVA
PHASE B: 4.33 KVA
PHASE C: 2.23 KVA
TOTAL KVA: 11.37 KVA
TOTAL A: 32 A AT 208V, 3PH

**CALCULATED LOAD WITH NEC DEMAND FACTORS**

CONTINUOUS LOAD X 125% 0.50 KVA
NON-CONTINUOUS LOAD 0.00 KVA
EXISTING LOAD X 125% 0.00 KVA
RECEPTACLE LOAD, ≤ 10 KVA 0.00 KVA
RECEPTACLE LOAD >10KVA @ 50% 0.00 KVA
KITCHEN LOAD @ 100% 10.97 KVA
PLUS 25% OF LARGEST MOTOR 0.00 KVA
TOTAL KVA 11.47 KVA
TOTAL A AT 208V, 3PH 32 A

**NOTES:**

1) EXISTING PANEL SIEMENS TYPE 'S1' PANEL, CATALOG NUMBER I1X42MC250A, SO NUMBER 54912.

2) REPLACE MAIN BREAKER WITH 120V SHUNT TRIP BREAKER OF SAME SIZE AND RATINGS. CONNECT SHUNT TRIP COIL TO HOOD CONTROL SYSTEM.

3) ALL LOADS ARE NEW.

## EXISTING PANEL EH6 -- 480Y/277V 3PH 4W 100A

| CCT. NO. | BRKR. | DESCRIPTION | PHASE LOADING (KVA) A | | PHASE LOADING (KVA) B | | PHASE LOADING (KVA) C | | DESCRIPTION | BRKR. | CCT. NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | EMERGENCY LIGHTING AREA B | | | | | | | EMERGENCY LIGHTING AREA B | 20/1 | 2 |
| 3 | 20/1 | EMERGENCY LIGHTING AREA B | | | | | | | EMERGENCY LIGHTING AREA A | 20/1 | 4 |
| 5 | 20/1 | EMERGENCY LIGHTING AREA B | | | | | | | - | - | 6 |
| 7 | 20/1 | EMERGENCY LIGHTING AREA B | | | | | | | - | - | 8 |
| 9 | 20/1 | EMERGENCY LIGHTING AREA B | | | | | | | - | - | 10 |
| 11 | 20/1 | EMERGENCY LIGHTING AREA B | | | | | | | - | - | 12 |
| 13 | **20/1** | **EMERGENCY LIGHTING PRODUCT EVALUATION AREA** | 0.62 | | | | | | - | - | 14 |
| 15 | - | - | | | | | | | - | - | 16 |
| 17 | - | - | | | | | | | - | - | 18 |

**RATING**

100 A 480Y/277 V 3 PH 4 W

MAIN LUG MIN. AIC RATING 50,000 A

**CONNECTED LOAD**

PHASE A: 0.62 KVA
PHASE B: 0.00 KVA
PHASE C: 0.00 KVA
TOTAL KVA: 0.62 KVA
TOTAL A: 1 A AT 480V, 3PH

**NOTES**

1) EXISTING SIEMENS S3 PANELBOARD.

2) PROVIDE NEW BREAKERS WHERE SHOWN IN BOLD.

**NOTES:**

1) BUSSMANN COORDINATION PANELBOARD
3) NEW LOADS ARE SHOWN IN BOLD
4) LOAD TOTALS SHOW NEW LOADS ONLY
5) CONTRACTOR TO METER PANEL DEMAND IN ACCORDANCE WITH NEC 220.87 (1) EXCEPTION TO CONFIRM ADEQUATE CAPACITY.


ESI ARCHITECTURAL & ENGINEERING SERVICES INC.
SMART BUILDING SOLUTIONS
Arch. Bus. Lic. No: AA26001599
Eng. Bus. Lic. No: 28045
950 Walnut Ridge Drive | Hartland, WI 53029 | 262.369.3535 T | 262.369.3592 F


US FOODS

KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

**REVISIONS**

1 02-17-20 - ADDENDUM #1
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| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: EGP | CHKD By: TJM |

SHEET TITLE

ONE-LINE DIAGRAM

PRELIMINARY DWGS.

FINAL CONST. DWGS.

SHEET NUMBER

E301

ELECTRICAL

## KITCHEN EQUIPMENT CONNECTION SCHEDULE

| TAG | EQUIPMENT DESCRIPTION | LOC. | ELECTRICAL RATING LOAD | V | PH | FEEDER SOURCE | CB/FUSE RATING | FEEDER WIRING | FINAL CONNECTION HARD WIRE | RECEPTACLE | CORD/PLUG | HEIGHT | STARTER REQUIREMENTS FURN. | INST. | WIRED | LOC. | TYPE | DISCONNECT REQUIREMENTS FURN. | INST. | WIRED | LOC. | TYPE | REF. NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K1 | FRYER | PRODUCT EVAL | 6.0 A | 120 | 1 | K1 | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1 |
| K2 | RANGE WITH OVEN | PRODUCT EVAL | 4.0 A | 120 | 1 | K1 | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1 |
| K3 | CHEESE MELTER | PRODUCT EVAL | 10 A | 120 | 1 | K1 | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1 |
| K5 | COUNTERTOP ELECTRIC OVEN | PRODUCT EVAL | 5050 W | 208 | 1 | K1 | 30/2 GFI | 3#12, 1#12G | - | 6-30R | - | 48 | N/A | N/A | N/A | N/A | N/A | EC | EC | EC | NU | NF | 1 |
| K6 | REFRIGERATOR BASE | PRODUCT EVAL | 3 A | 120 | 1 | K1 | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 18 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1 |
| K7.1 | DOUBLE STACKED COMBO OVEN | PRODUCT EVAL | 1000 W | 208 | 3 | K1 | 15/3 | 3#12, 1#12G | X | - | - | 48 | N/A | N/A | N/A | N/A | N/A | EC | EC | EC | NU | NF | 1 |
| K7.2 | DOUBLE STACKED COMBO OVEN | PRODUCT EVAL | 1000 W | 208 | 3 | K1 | 15/3 | 3#12, 1#12G | X | - | - | 48 | N/A | N/A | N/A | N/A | N/A | EC | EC | EC | NU | NF | 1 |
| K8 | REFRIGERATOR UNDERCOUNTER | PRODUCT EVAL | 2.1 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 18 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K9 | FREEZER UNDERCOUNTER | PRODUCT EVAL | 3.5 A | 120 | 1 | K1 | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 18 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1 |
| K10 | BULB WARMER | PRODUCT EVAL | 500.0 W | 120 | 1 | K1 | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1 |
| K12 | 4 SLICE TOASTER | PRODUCT EVAL | 12.0 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K13 | MICROWAVE | PRODUCT EVAL | 13.0 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K17 | REACH-IN REFRIGERATOR | PREP AREA | 7.5 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K18 | REACH-IN FREEZER | PREP AREA | 9.5 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K19 | COUNTERTOP POWER MIXER | PREP AREA | 5.0 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K21 | SLICER | PREP AREA | 3.0 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K25 | DISHWASHER | PREP AREA | 11.4 A | 120 | 1 | K | 15/1 GFI | 2#12, 1#12G | - | 5-15R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K27 | ICE MAKER | PREP AREA | 5.6 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| K40.1 | ICE TEA BREWER | TRANING RM 1 | 14.4 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2 |
| K40.2 | ICE TEA BREWER | TRANING RM 1 | 14.4 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2 |
| K41 | COFFEE BREWER | TRANING RM 1 | 11.4 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2 |
| K42 | UNDERCOUNTER REFRIGERATOR | TRANING RM 1 | 2.3 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 16 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2 |
| K43 | HEATED HOLDING & PROFFING CAB | PRODUCT EVAL | 16.0 A | 120 | 1 | K | 20/1 GFI | 2#12, 1#12G | - | 5-20R | MFG | 48 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |

**SCHEDULE DEFINITIONS:**

2SP = 2 SPEED MAGNETIC STARTER
CS = COMBINATION STARTER
EC = ELECTRICAL CONTRACTOR
EX = EXISTING TO BE REUSED
FC = FUSE CLIP
FPC = FIRE PROTECTION CONTRACTOR
FU = FUSED
HOA = HAND - OFF - AUTO
IU = IN UNIT
MAG = MAGNETIC STARTER
MC = MECHANICAL CONTRACTOR
MCA = MINIMUM CIRCUIT AMPS
MCC = MOTOR CONTROL CENTER
MFG = MANUFACTURER
MS = MOTOR RATED MANUAL SWITCH
NA = NOT APPLICABLE
NF = NON-FUSED
NU = NEAR UNIT
OU = ON UNIT
P = POLE
PC = PLUMBING CONTRACTOR
PKG = PACKAGED EQUIPMENT CONTROLLER
PL = PILOT LIGHT
PNL = PANEL
RVS = REDUCED VOLTAGE STARTER
ST = SHUNT TRIP
VFD = VARIABLE FREQUENCY DRIVE
WP = WEATHERPROOF

**SCHEDULE GENERAL NOTES:**

1. SCHEDULE INDICATES MINIMUM CONDUCTOR SIZE. INCREASE CONDUCTOR SIZE AS REQUIRED TO ACCOMMODATE FOR VOLTAGE DROP.
2. RECEPTACLES AND CORD SETS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
3. SEE KITCHEN EQUIPMENT PLAN FOR OUTLET ROUGH-IN DIMENSIONS AND FURTHER INFORMATION.

**SCHEDULE REFERENCE NOTES:**

1) SHUNT TRIP FUNCTION IS BY PANEL K1 MAIN BREAKER.
2) MOUNT 2" ABOVE BACKSPLASH. SEE ARCHITECTURAL DRAWINGS.

## GENERAL EQUIPMENT CONNECTION SCHEDULE

| TAG | EQUIPMENT DESCRIPTION | LOC. | ELECTRICAL RATING LOAD | V | PH | FEEDER SOURCE | CB/FUSE RATING | FEEDER WIRING | STARTER REQUIREMENTS FURN. | INST. | WIRED | LOC. | TYPE | DISCONNECT REQUIREMENTS FURN. | INST. | WIRED | LOC. | TYPE | REF. NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AV1 | PROJECTION SCREEN | A174 | 600.0 W | 120 | 1 | PNL L3B | 20/1 CB | 2#12, 1#12G | NA | | | | | EC | EC | EC | NU | MS | 1 |
| AV2 | PROJECTOR | A174 | 340.0 W | 120 | 1 | PNL L3B | 20/1 CB | 2#12, 1#12G | NA | | | | | NA | | | | | 2 |
| AV3 | LCD MONITOR, CEILING MOUNTED | A173/A174/A175 | 200.0 W | 120 | 1 | PNL L3B | 20/1 CB | 2#12, 1#12G | NA | | | | | NA | | | | | 2 |
| AV4 | LCD MONITOR, WALL MOUNTED | A113 | 200.0 W | 120 | 1 | PNL L3A | 20/1 CB | 2#12, 1#12G | NA | | | | | NA | | | | | 2 |
| FFB1 | FLUSH FLOOR BOX - POWER | A174/A175/A112 | 720.0 W | 120 | 1 | PNL L3A | 20/1 CB | 2#12, 1#12G | NA | | | | | NA | | | | | 3, 4 |
| FFB2 | FLUSH FLOOR BOX - POWER/DATA | SEE PLAN | 180.0 W | 120 | 1 | PNL L3A | 20/1 CB | 2 #12, 1#12G | NA | | | | | NA | | | | | 5, 6 |

**SCHEDULE DEFINITIONS:**

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ECP = ELEVATOR CONTROL PANEL
ELC = ELEVATOR CONTRACTOR
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FC = FUSE CLIP
FPC= FIRE PROTECTION CONTRACTOR
FU= FUSED
HOA = HAND - OFF - AUTO
IU = IN UNIT
MAG = MAGNETIC STARTER
MC = MECHANICAL CONTRACTOR
MCA = MINIMUM CIRCUIT AMPS
MCC = MOTOR CONTROL CENTER
MFG = MANUFACTURER
MS = MOTOR RATED MANUAL SWITCH
NA = NOT APPLICABLE
NF = NON-FUSED
NU = NEAR UNIT
OU = ON UNIT
P = POLE
PC = PLUMBING CONTRACTOR
PKG = PACKAGED EQUIPMENT CONTROLLER
PL = PILOT LIGHT
PNL = PANEL
RC = REFRIGERATION CONTRACTOR
RVS = REDUCED VOLTAGE STARTER
ST = SHUNT TRIP
TCP = TEMPERATURE CONTROL PNL
T-STAT = THERMOSTAT
VFD = VARIABLE FREQUENCY DRIVE
WP = WEATHERPROOF

**SCHEDULE GENERAL NOTES:**

1. SCHEDULE INDICATES MINIMUM CONDUCTOR SIZE. INCREASE CONDUCTOR SIZE AS REQUIRED TO ACCOMMODATE FOR VOLTAGE DROP.

**SCHEDULE REFERENCE NOTES:**

1. PROVIDE CONNECTION TO LOW VOLTAGE CONTROLLER AND WALL SWITCH.
2. INSTALL DUPLEX RECEPTACLE FLUSH IN CEILING TILE. COORDINATE LOCATION WITH AV CONTRACTOR.
3. EXISTING SLAB ON GRADE. INSTALL (1) 3/4" POWER CONDUIT FROM BOX TO WALL OR COLUMN. EXTEND CONDUIT CONCEALED IN WALL CAVITY TO CEILING. SAWCUTTING AND PATCHING OF FLOOR BY OTHERS.
4. PROVIDE WIREMOLD RFB2-OG FLOOR BOX WITH FPBTCAL COVER PLATE, AND (2) DUPLEX RECEPTACLES.
5. EXISTING SLAB ON GRADE. INSTALL (2) 3/4" DATA CONDUIT FROM BOX TO WALL OR COLUMN, EXTEND CONDUIT CONCEALED IN WALL CAVITY TO CEILING. SAWCUTTING AND PATCHING OF FLOOR BY OTHERS.
6. PROVIDE WIREMOLD RFB2-OG FLOOR BOX WITH FPBTCAL COVER PLATE, (1) TELECOMMUNICATIONS BRACKET AND (1) DUPLEX RECEPTACLE.

## MECHANICAL EQUIPMENT CONNECTION SCHEDULE

| TAG | EQUIPMENT DESCRIPTION | LOC. | ELECTRICAL RATING LOAD | V | PH | FEEDER SOURCE | CB/FUSE RATING | FEEDER WIRING | STARTER REQUIREMENTS FURN. | INST. | WIRED | LOC. | TYPE | DISCONNECT REQUIREMENTS FURN. | INST. | WIRED | LOC. | TYPE | REF. NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP-1 | RECIRCULATING PUMP | A111 | 0.5 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | EC | NU | - | EC | EC | EC | NU | NF | |
| D-1 | DISPOSER | A110 | 2.0 HP | 208 | 3 | K | 15/3 | 3 #12, 1 #12G | PC | PC | EC | NU | - | PC | PC | EC | NU | | |
| KEF-1 | POWER VENTILATOR | ROOF | 5.0 HP | 480 | 3 | H6R | 15/3 | 3 #12, 1 #12G | MFG | EC | EC | NU | VFD | MFG | MFG | MFG | NU | - | |
| KEF-2 | POWER VENTILATOR | ROOF | 0.2 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | EC | EC | NU | ECM | MFG | MFG | MFG | NU | - | |
| KH-1E | KITCHEN HOOD | A173 | 0.2 KW | 120 | 1 | K1 | 15/1 | 2 #12, 1 #12G | NA | NA | NA | NA | - | EC | EC | EC | NU | MS | |
| KH-1W | KITCHEN HOOD | A173 | 0.2 KW | 120 | 1 | K1 | 15/1 | 2 #12, 1 #12G | NA | NA | NA | NA | - | EC | EC | EC | NU | MS | |
| KMU-1 | MAKE UP AIR | ROOF | 73.3 MCA | 480 | 3 | AC-1 | 80/3 | 3 #4, 1 #10 | MFG | MFG | MFG | IU | VFD | EC | EC | EC | OU | FU | |
| RTU-3 | ROOFTOP UNIT | ROOF | 33.0 MCA | 480 | 3 | AC-1 | 35/3 | 3 #8, 1#10 | MFG | MFG | MFG | IU | - | EC | EC | EC | OU | FU | |
| RTU-6 | ROOFTOP UNIT | ROOF | 35.0 MCA | 480 | 3 | AC-1 | 45/3 | 3 #8, 1#10 | MFG | MFG | MFG | IU | - | EC | EC | EC | OU | FU | |
| TF-1 | TRANSFER FAN | A179 | 420.0 W | 120 | 1 | L3B | 15/1 | 2 #12, 1 #12G | MFG | MFG | EC | OU | MSC | MFG | EC | EC | NU | MS | |
| WH-11 | GAS FIRED WATER HEATER | A111 | 5.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | NA | NA | NA | NA | - | EC | EC | EC | NU | MS | |
| AT-6.1 | AIR TERMINAL UNIT | A175 | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| AT-6.2 | AIR TERMINAL UNIT | A174 | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| AT-6.3 | AIR TERMINAL UNIT | A174 | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| AT-6.4 | AIR TERMINAL UNIT | A174 | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| AT-3.1 | AIR TERMINAL UNIT | TRAINING LOBBY | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| AT-3.2 | AIR TERMINAL UNIT | TRAINING LOBBY | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| AT-3.3 | AIR TERMINAL UNIT | TRAINING LOBBY | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| AT-3.4 | AIR TERMINAL UNIT | TRAINING LOBBY | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| AT-3.5 | AIR TERMINAL UNIT | TRAINING LOBBY | 1.0 FLA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | MFG | MFG | MFG | IU | - | EC | EC | EC | NU | MS | |
| KHC | HOOD CONTROL PANEL | A172 | 150.0 VA | 120 | 1 | K | 15/1 | 2 #12, 1 #12G | NA | NA | NA | NA | - | EC | EC | EC | NU | MS | |
| PE-1 | POWER EXHAUST | RTU-2 | (2) 2 HP | 480 | 3 | H6R | 15/3 | 3 #12, 1 #12G | MFG | MFG | EC | NU | | EC | EC | EC | FU | NU | |

**SCHEDULE DEFINITIONS:**

2SP = 2 SPEED MAGNETIC STARTER
CS = COMBINATION STARTER
EC = ELECTRICAL CONTRACTOR
ECP = ELEVATOR CONTROL PANEL
ELC = ELEVATOR CONTRACTOR
EX = EXISTING TO BE REUSED
FC = FUSE CLIP
FPC= FIRE PROTECTION CONTRACTOR
FU= FUSED
HOA = HAND - OFF - AUTO
IU = IN UNIT
MAG = MAGNETIC STARTER
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MSC= MANUAL SPEED CONTROL
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PL = PILOT LIGHT
PNL = PANEL
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RVS = REDUCED VOLTAGE STARTER
ST = SHUNT TRIP
TCP = TEMPERATURE CONTROL PNL
T-STAT = THERMOSTAT
VFD = VARIABLE FREQUENCY DRIVE
WP = WEATHERPROOF

**SCHEDULE GENERAL NOTES:**

**SCHEDULE REFERENCE NOTES:**


ESI
ARCHITECTURAL & ENGINEERING SERVICES INC.
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Arch. Bus. Lic. No: AA26001599
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US FOODS

KITCHEN RENOVATION FOR
US FOODS - SOUTH FLORIDA
7598 NW 6TH AVENUE
BOCA RATON, FL 33487

REVISIONS
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9 -
10 -

| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: EGP | CHKD By: TJM |

SHEET TITLE
SCHEDULES

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
E801

ELECTRICAL

## LIGHTING CONTROL SYSTEM MATRIX

| SPACE TYPE | MANUAL ON | MANUAL OFF | DIMMING SWITCH | TIME SCHEDULE ON | TIME SCHEDULE OFF | OCCUPANCY SENSOR ON | OCCUPANCY SENSOR OFF | EXTERIOR PHOTOCONTROL ON | EXTERIOR PHOTOCONTROL OFF | DAYLIGHT SENSOR | DIGITAL TIME SWITCH | MULTIZONE CONTROL | INTEGRAL FIXTURE SENSOR | CENTRALIZED RELAY CONTROL | DISTRIBUTED RELAY CONTROL | SEQUENCE OF OPERATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ELECTRICAL ROOM A171 | X | X | | | | | | | | | | | | | | 1 |
| TRAINING ROOM A174, A175, PRODUCT EVALUATION A173, OFFICE A113 | | | X | | | X | X | | | | | | | | X | 2 |
| PREP AREA A172 | | | X | | | X | X | | | | | X | | | X | 3 |
| INNOVATION A101, TRAINING A102 | | | X | | | X | X | | | | | | | | X | 2 |

## SEQUENCE OF OPERATION

| | |
|---|---|
| 1 | ON BY SWITCH, OFF BY SWITCH. |
| 2 | DURING UNOCCUPIED HOURS: ON TO 50% BY SENSOR, OFF BY SENSOR AFTER 30 MINUTES OF VACANCY.<br>EMERGENCY POWERED FIXTURES, SAME AS ABOVE EXCEPT ON TO 100% ON POWER FAIL. |
| 3 | ON TO 50% LEVEL BY SENSOR, MULTI-ZONE DIMMER SWITCH ALLOWS MANUAL ADJUSTMENT OF INDIVIDUAL ZONES, OFF AFTER 15 MINUTES OF VACANCY.<br>EMERGENCY POWERED FIXTURES, SAME AS ABOVE EXCEPT ON TO 100% ON POWER FAIL. |

## LIGHTING FIXTURE SCHEDULE

| FIXTURE TYPE | DESCRIPTION | FIXTURE DATA: MANUFACTURER | CATALOG NO. | MOUNTING | VOLTS | QTY | LAMP DATA: TYPE | WATTAGE | REF. NOTES |
|---|---|---|---|---|---|---|---|---|---|
| D | ORANGE PEEL DECORATIVE PENDANT | JUNO | DPEND-MP-G2-P316-OPEEL-78IN-LED12-30K-80CRI-SNC | PENDANT | 120/12 | - | 389 LUMEN LED | 6 | 1 |
| E | LENS STRIP LIGHT | COOPER METALUX | 4SNLED-LD5-30SL-LW-UNV-L835 | SURFACE | 277 | 1 | LED 3000 LUMEN | 21 | |
| F | LED TAPE LIGHT | TIVOLI | TPL-HO-4,4-I-35-C-24+PSU WITH INF-C-LNS-8 | SURFACE | 120/24 | - | | 4.4/FT | 2 |
| F3 | 2' x 2' LENSED TROFFER | METALUX | 22GR-LD5-36-A-UNV-L835-CD-1 | RECESSED | 277 | - | 2029 LUMEN LED | 34.6 | |
| F3E | TYPE F3 WITH EMERGENCY CONTROL DEVICE | METALUX/IOTA | ADD IOTA ETS-DR TO CATALOG NUMBER ABOVE | RECESSED | 277 | - | 2029 LUMEN LED | 34.6 | |
| G2 | RECESSED 2' X 2' - 3500 LUMEN | FOCAL POINT | FAML-22-ACR-3500LH-35K-1C-UNV-LD1-G3-WH | RECESSED | 277 | - | 3500 LUMEN LED | 34.6 | |
| G2E | TYPE G2 WITH EMERGENCY CONTROL DEVICE | FOCAL POINT/IOTA | ADD IOTA ETS-DR TO CATALOG NUMBER ABOVE | RECESSED | 277 | - | 3500 LUMEN LED | 34.6 | |
| H | PENDANT | EUREKA | 4026-LED,4-35-4B-120-DP-S6-36-RC-CHR-SA-BLKA | SURFACE | 120 | 1 | LED | 4.8 | 3 |
| J | ANGLED PENDANT | EUREKA | 2026-LED,8-35-4B-120-DP-S6-36-RC-CHR-SA-BLKA | SURFACE | 120 | 1 | LED | 9.9 | 3, 4 |
| K2 | 6" DOWNLIGHT | FOCAL POINT | FLC6D-RO-1000L-277-L11-T LC6-RD-1000L-935-DN-CD-NP | RECESSED | 277 | - | 1000 LUMEN LED | 10.9 | |
| | | | | | | | | | |
| X1 | LED SINGLE FACE POLYCARBONATE EXIT - AC ONLY | SURE-LITES | LPX-6 | VARIES | 277 | - | INCLUDED | 1.04 | |
| X1D | LED DOUBLE FACE POLYCARBONATE EXIT - AC ONLY | SURE-LITES | LPX-6 | VARIES | 277 | - | INCLUDED | 1.04 | |
| X2D | LED DOUBLE FACE POLYCARBONATE EXIT - AC ONLY | SURE-LITES | LPX-6 | VARIES | 277 | - | INCLUDED | 1.04 | |

**SCHEDULE REFERENCE NOTES:**

1. PROVIDE PENDANT IN BETWEEN ARCHITECTURAL CEILING SPOKES, PROVIDE 120V TO 12V TRANSFORMERS AND ACCESSORIES FOR A COMPLETE SYSTEM AS NEEDED, SHORTEN CORD AS NEEDED.
2. PROVIDE LED STRIP IN (8) TWO FOOT SECTIONS, MOUNT UNDERCOUNTER ABOVE FROSTED GLASS PANELS BETWEEN COUNTER SUPPORT LEGS, PROVIDE DIMMABLE DRIVER, COUPLERS AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. DRIVER AND CONNECTORS TO BE CONCEALED IN ACCESSIBLE SPACE BEHIND COUNTER. TAPE TO BE MOUNTED ON 45 DEGREE MOUNTING CHANNEL, TPL-HMCH-8.
3. PROVIDE 36" FIELD CUTTABLE STEM. MOUNT FIXTURE SUCH THAT THE BOTTOM OF THE LIGHT FIXTURE IS AT THE SAME ELEVATION AS THE BOTTOM OF THE TRELLIS.
4. ALLOW FOR AIMING LIGHT FIXTURE TO PROPERLY ILLUMINATE CHEF DURING VIDEO RECORDING. COORDINATE WITH ESI CONSTRUCTION MANAGER.

## OCCUPANCY SENSOR SCHEDULE

| TYPE | DESCRIPTION | MANUFACTURER | CATALOG NUMBER | VOLTAGE | MOUNTING | COVERAGE | NOTES |
|---|---|---|---|---|---|---|---|
| A | LOW VOLTAGE DUAL TECHNOLOGY CEILING SENSOR | WATTSTOPPER | LMDC-100 | 24V | CEILING | 1000 SQ. FEET | 1 |
| | | | | | | | |
| | | | | | | | |

NOTES:
1. SENSORS SHALL BE USED AS INPUTS TO LIGHTING CONTROL SYSTEM.

## LOW VOLTAGE SWITCH SCHEDULE, LV-#

| TAG | POSITION | DEVICE TYPE | DESCRIPTION | RELAY/CIRCUITS CONTROLLED |
|---|---|---|---|---|
| 1 | 1 | PUSHBUTTON | INNOVATION LIGHTS ON/OFF | DR-2 |
| | 2 | PUSHBUTTON | TRAINING LOBBY ON/OFF | DR-1 |
| | 3 | PUSHBUTTON | DIM UP | DR-1, DR-2 |
| | 4 | PUSHBUTTON | DIM DOWN | DR-1, DR-2 |
| 2 | 1 | PUSHBUTTON | TRAINING ROOM 2 LIGHTS ON/OFF | DR-3 |
| | 2 | PUSHBUTTON | DIM UP | DR-3 |
| | 3 | PUSHBUTTON | DIM DOWN | DR-3 |
| | 4 | PUSHBUTTON | - | - |
| 3 | 1 | PUSHBUTTON | TRAINING ROOM 1 LIGHTS ON/OFF | DR-4 |
| | 2 | PUSHBUTTON | DIM UP | DR-4 |
| | 3 | PUSHBUTTON | DIM DOWN | DR-4 |
| | 4 | PUSHBUTTON | - | - |
| 4 | 1 | PUSHBUTTON | TRAINING ROOM 1 LIGHTS ON/OFF | DR-4 |
| | 2 | PUSHBUTTON | TRAINING ROOM 2 LIGHTS ON/OFF | DR-3 |
| | 3 | PUSHBUTTON | DIM UP | DR-3, DR-4 |
| | 4 | PUSHBUTTON | DIM DOWN | DR-3, DR-4 |
| 5 | 1 | PUSHBUTTON | COUNTER FACE | DR-6 |
| | 2 | PUSHBUTTON | ORANGE LIGHTS | DR-8 |
| | 3 | PUSHBUTTON | DOWN LIGHTS | DR-9 |
| | 4 | PUSHBUTTON | CHEF | DR-7 |
| 6 | 1 | PUSHBUTTON | TROFFERS | DR-5 |
| | 2 | PUSHBUTTON | - | - |
| | 3 | PUSHBUTTON | - | - |
| | 4 | PUSHBUTTON | - | - |
| | 5 | PADDLE | PRODUCT EVALUATION UP/DOWN | DR-5,6,7,8,9 |
| 7 | 1 | PUSHBUTTON | PREP AREA | DR-10 |
| | 2 | PUSHBUTTON | DIM UP | DR-10 |
| | 3 | PUSHBUTTON | DIM DOWN | DR-10 |
| | 4 | PUSHBUTTON | - | - |
| 8 | 1 | PUSHBUTTON | OFFICE A113 ON/OFF | DR-11 |
| | 2 | PUSHBUTTON | DIM UP | DR-11 |
| | 3 | PUSHBUTTON | DIM DOWN | DR-11 |

NOTES:
1. SEE PLANS FOR QUANTITIES OF STATIONS.

## "DR" DISTRIBUTED RELAY SCHEDULE

| RELAY NO. | DIMMER MODULE | CIRCUIT NO. | DESCRIPTION | CONTROL: LOCAL | CONTROL: MASTER |
|---|---|---|---|---|---|
| 1 | YES | H3-2 | TRAINING LOBBY | LVS/DIMMER | TIMECLOCK |
| 2 | YES | H3-2 | INNOVAITION | LVS/DIMMER | TIMECLOCK |
| 3 | YES | H2-4 | TRAINING ROOM 1 | LVS/DIMMER | TIMECLOCK |
| 4 | YES | H2-4 | TRAINING ROOM 2 | LVS/DIMMER | TIMECLOCK |
| 5 | YES | H2-4 | PRODUCT EVALUATION | LVS/DIMMER | TIMECLOCK |
| 6 | YES | K-1 | PRODUCT EVALUATION FRONT COUNTER | LVS/DIMMER | TIMECLOCK |
| 7 | YES | K-1 | PRODUCT EVALUATION COPUNTER SPOTS | LVS/DIMMER | TIMECLOCK |
| 8 | YES | K-1 | PRODUCT EVALUATION COUNTER PENDANTS | LVS/DIMMER | TIMECLOCK |
| 9 | YES | K-1 | PRODUCT EVALUATION COUNTER DOWN LIGHTS | LVS/DIMMER | TIMECLOCK |
| 10 | YES | H2-4 | PREP AREA | LVS/DIMMER | TIMECLOCK |
| 11 | YES | H2-4 | OFFICE A113 | LVS/DIMMER | TIMECLOCK |

NOTES:
1. PROVIDE NETWORK CONNECTION BETWEEN ALL DISTRIBUTED RELAYS.
2. PROVIDE ALL NECESSARY SYSTEM COMPONENTS FOR MASTER TIME CLOCK AND TO CONNECT COMPUTER TO THE LIGHTING CONTROL SYSTEM FOR CONFIGURATION AND TIME SCHEDULE CHANGES.


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| DATE | JOB NO. |
|---|---|
| 1-6-20 | 50-1414-19 |
| DWG By: EGP | CHK'D By: TJM |

SHEET TITLE
SCHEDULES

PRELIMINARY DWGS.
FINAL CONST. DWGS.

SHEET NUMBER
E802

ELECTRICAL