2C. Steel Studs — (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion- 4F. Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For or galv steel, 3-1/2 in, min depth, spaced a max of 16 in, OC, Studs friction-fit into floor and ceiling runners. Studs to to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs.

direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs.

Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the 2D. Framing Members* — Steel Studs — As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2

RAY-BAR ENGINEERING CORP — Type RB-LBG

2F, Framing Members* — Steel Studs — As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than and 12 in. OC in the field of the board. Joints oriented vertically and adapted on opposite sides of the assembly. When using 2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 through ZF — For use with Item 1G, Proprietary channel shaped studs, minimum 3-5/8 in, wide, Studs to be cut 1/2 in. less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

UNITED STATES GYPSUM CO — Type SCX, ULIX

4, Gypsum Board* — (Not Shown) — (As an alterna

4J. Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For 4). Gypsum Board*— (Not Shown) — (As an alternate to item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs item 2C) — Nom 5/8 in, thick lead backed gypsum panels with beveled, squee or direct attachment only to steel studs item 2C) — Nom 5/8 in, thick lead backed gypsum panels with beveled, squee or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length has been screenible backet.

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

1. Framing Members* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min CGC INC — Type ULX corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly UNITED STATES GYPSUM CO — Type ULX

2). Framing Members* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricate 5 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly 4L. Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered OLMAR SUPPLY INC - PRIMESTUD 2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel

MARINO/WARE, DIV OF WARE INDUSTRIES INC - StudRite adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall 2L. Framing Members* - Steel Studs - As an alternate to Items 2 - For use with Item 1J, channel shaped studs, min 3-5/ in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly 4M. Gypsum Board* -- (For use with Item 8) -- 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) RESCUE METAL FRAMING, L L C — AlphaSTUD 2M. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel sh

covered with paper tape and joint compound. Screw heads covered with joint compound.

AMERICAN GYPSUM CO — Type AG-C CERTAINTEED GYPSUM INC — Type C 2N. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped 4N, Wall and Partition Facings and Accessories* — (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Type QuietRock 527

4O. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt, joints on opposite sides of studis need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontalpoints obth layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall.

NATIONAL GYPSUM CO.—Time SW.

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

3A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product with a nominal dry density of 5.5 lb/ft³, in accordance with the application instructions supplied with the product with a nominal dry density of 5.5 lb/ft³, in accordance with the application instructions supplied with the product with a nominal dry density of 5.5 lb/ft³, in accordance with the application instructions supplied with the product with a nominal dry density of 5.5 lb/ft³, in accordance with the application instructions supplied with the product with a nominal dry density of 5.5 lb/ft³, in accordance with the application instructions supplied with the product with a nominal dry density of 5.5 lb/ft³, in accordance with the application instructions supplied without product with a nominal dry density of 5.5 lb/ft³, in accordance with the application instructions of the fiber is applied without product with a nominal dry density of 5.5 lb/ft³, in thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and students of the product with a nominal dry density of 5.5 lb/ft³, in thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and students of the product with a nominal dry density of 5.5 lb/ft³, in thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over students of the product with the product product.

Us GREER/IBER L L C — INS735, INS745, INS750LD for use with wet or dry application. INS765LD and INS773LD are to be used for dry application only application only.

3B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to eletely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. 3C. Fiber, Sprayed* -- As an alternate to Batts and Blankets (Item 3) -- Spray applied cellulose fiber. The fiber is applied with

water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The 3D. Batts and Blankets* — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the CERTAINTEED GYPSUM INC — Type CLLX,

3E. Batts and Blankets* — For use with Item 4R and 4S. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation 4T, Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

sh. Fiber, "prayed" — As an atternate to batts and brankets (tem 3) — spray-applied cellulose material, the incent is application instructions supplied with water to completely filt the enclosed carrily in accordance with the application instructions supplied with reproduct. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the state of the spray of the product of the spr

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO - Type DBX-1 CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2

4A. Gypsum Board* — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, 4A. Gypsum Board* — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type 5 steel screws spaced 8 in. OC when applied horizontally or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. When using ULIX, panels need not be staggered in horizontal CERTAINTEED GYPSUM INC. — Type X: Type CType EGRG/ GlasRoc, Type Silent X: Easi-Lite Type X:2

68. Framing Members* — (Optional on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and 2A. Framing Members* — Steel Studs — As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

> CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD UNITED STATES GYPSUM CO - Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

CERTAINTEED GYPSUM INC - Type LGFC6A, LGFC-C/A

4C. Gypsum Board* — As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applie ntally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge nd horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.

EORGIA-PACIFIC GYPSUM LLC — Type DGG, GreenGlass Type X reel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length

4D, Gypsum Board*—As an alternate to Items 4, 4A, 4B, and 4C — Nom. 5/8 in, thick gypsum panels applied vertically of ong the top and bottom edges of the wall for both vertical and horizontal applications. When used in widths other than in., gypsum panels to be installed horizontally.
 NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C 4E. Gypsum Board* — (As an alternate to Items 4 through 4D) — Installed as described in Item 4. 5/8 in. thick, 4 ft. wide,

applied vertically only and fasteried to the studs and plates with 1 in. long, Type S steel screws spaced, 12 in. OC.

NATIONAL GYPSUM CO — Type SBWB

4G. **Gypsum Board*** — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long. Type 5 steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and

PROJECT LOCATION

RETAIL

N.E. ANDERSON LANE

CGC INC — Type SCX, ULIX

2E. Framing Members* — Steel Studs — As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES tured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

4I. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1E and 2E only, 5/8 in. thick, 4 ft wide,

els with beveled, square or tapered edges installed as described in Item 4 and 4A.

4Q. Gypsum Board* — 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with

4R. Gypsum Board* — As an alternate to Item 4D. For use with Item 3E, Batts and Blankets* — 5/8 in. thick, 4 ft wide,

45. Gypsum Board* — As an alternate to Item 4. For use with Item 3E, Batts and Blankets* — 5/8 in. thick, 4 ft wide, installed

1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC

6 A. Steel Framing Members* - (Optional, Not Shown, As an alternate to Item 6) - Furring channels and Steel Framing

Jembers as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC

OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

6C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing

noers as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of

framing screws, min 7/16 in, long at the midpoint of the overlap, with one screw on each flange of the channel. Not for

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

NATIONAL GYPSUM CO — Type FSLX.

USG MEXICO S A DE C V — Type ULX

6D. Steel Framing Members* — (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing A Surring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with b. Steel Framing Members* — UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted REGUPOL AMERICA — Type SonusClip

6E. Steel Framing Members* — (Optional, Not Shown As an alternate to Item 6) — Resilient channels and Steel Framing a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels tured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 5 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. $10 \times 1/2$ in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6F Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in, wide by 7/8 in, or 1-1/2 in, deep, spaced 24 in, OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping eff farming screws, min: 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to remaining Members — Steel Studies — State St furring channels as described in Item 4. b Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

> 6F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC., and uds with No. 10×2 in, screw through the center hole. Furring channels are friction fit into clips.

MASON INDUSTRIES INC — Type CWC-50

7. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacture ecommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsur board, the required UL Classified gypsurn board layer(s) is/are to be installed as indicated as to fastener type and spacing.

8. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive,

HOMASOTE CO — Homasote Type 440-32 BA. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom

1/2 in thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in, long, Type 5 steel screws spaced 2 in, and 6 in, from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated for use with Item 4M.

BLUE RIDGE FIBERBOARD INC — SoundStop

8B. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in, thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in, long Type 5 steel screws, spaced 12 in. OC and gall intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to studs with length of fasteners increased by 1/2 in. over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are tional unless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M.

9. Lead Batten Strips - (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a n. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical 10. Lead Discs or Tabs - (Not Shown, For Use With Item 4E) - Used in lieu of or in addition to the lead batten strips (Item 8)

10A. Lead Discs — (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

b. Framing Members* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 12. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — For use with Items 1 to 1I, Items 2 to 2J, Item 3, 12. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — For use with Items 1 to 11, Items 2 to 2J, Item 3, Items 4 to 14, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first yer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional alayer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3. On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4

> 13. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 nches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long mension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at ti raming members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joint CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

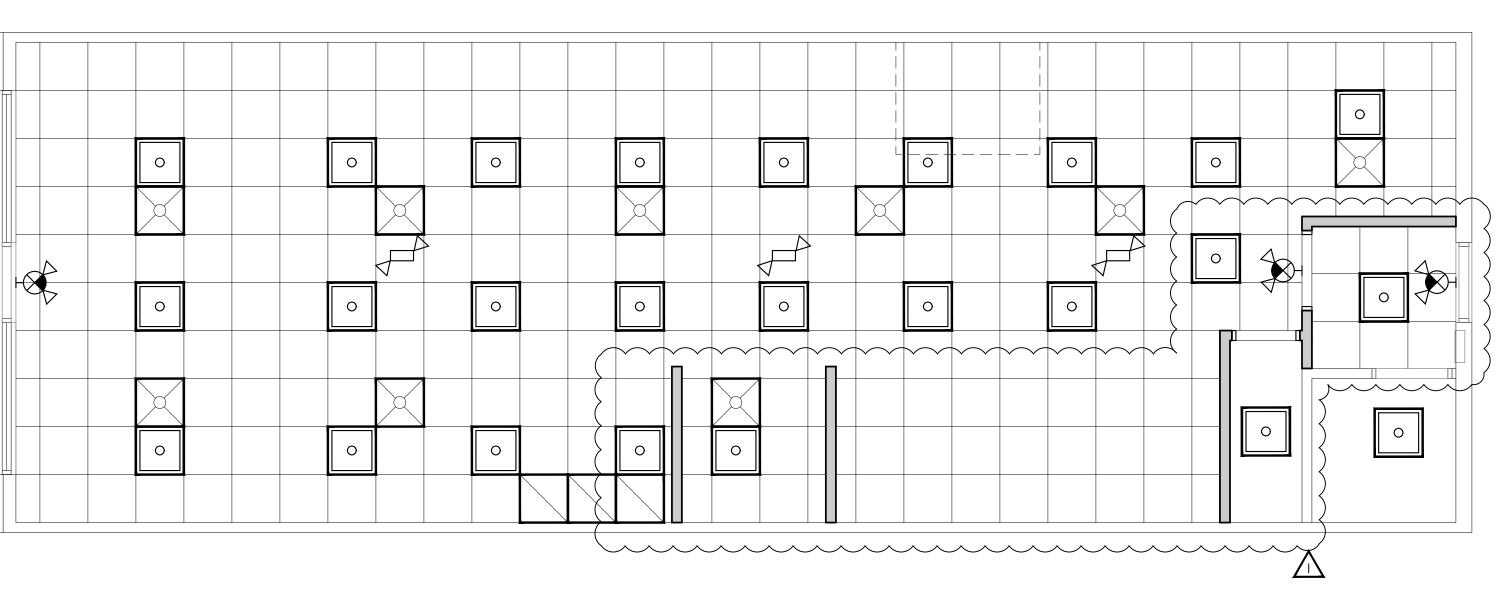
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-_------NEW KITCHEN EXHAUST FAN NEW MAKEUP AIR UNIT NEW ROOF TOP UNIT GENERAL ROOF PLAN NOTES A. NEW ROOF TOP UNIT IS A ONE-FOR-ONE REPLACEMENT WITH EQUAL SIZE, WEIGHT \$ LOCATION. UPON SHOP DRAWING REVIEW, IF STRUCTURAL REVIEW IS REQUIRED, ONE WILL BE PROVIDED. B. EXISTING ROOF CURB(S) TO REMAIN. C. RE: M2.0 FOR KITCHEN EXHAUST HOOD SYSTEM 5 PARTIAL ROOF PLAN

1/4" = 1'-0"

DRAWING INDEX <u>ARCHITECTURAL</u> A2.0 FLOOR PLAN, REFLECTED CEILING PLAN MECHANICAL, PLUMBING, ELECTRICAL MI.O MECHANICAL PLAN PI.O PLUMBING WASTE & VENT PLAN P2.0 PLUMBING WATER & GAS PLAN EI.O ELECTRICAL POWER PLAN

> E2.0 ELECTRICAL LIGHTING PLAN E3.0 ELECTRICAL LEGEND & NOTES

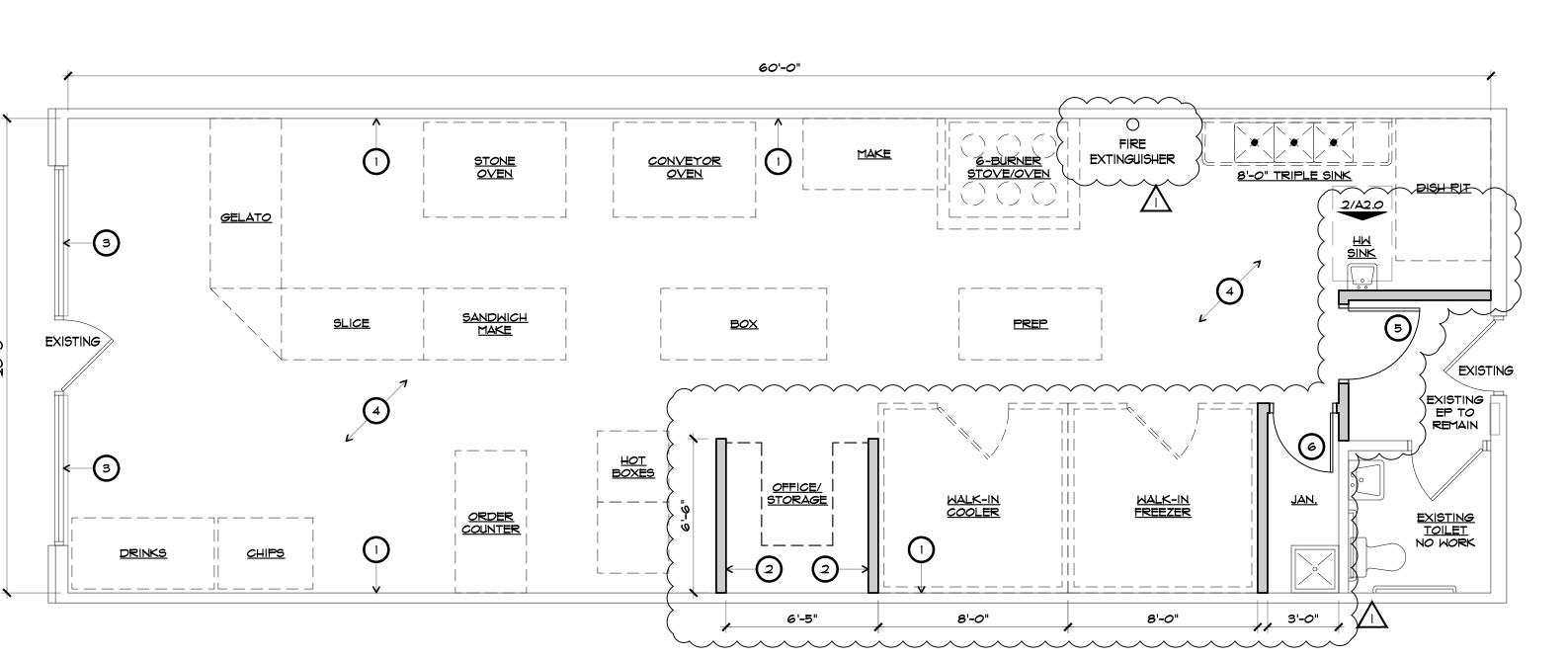


2x2 ACOUSTICAL TILE CEILING @ 9'-O" A.F.F. 2x2 L.E.D. LIGHT FIXTURE MECHANICAL SUPPLY DIFFUSER

MECHANICAL RETURN DIFFUSER

4 REFLECTED CEILING PLAN

1/4" = 1'-0"



KEYED PLAN NOTES

1. UPGRADE WALL TO COMPLY WITH U.L. ASSEMBLY #U465. 2. 5/8" GYP. BD. ON EACH SIDE OF 3-5/8" MTL. STUDS @ 16"o.c. TO 6" ABOVE FINISHED CEILING. DIAGONALLY BRACE WALL TO STRUCTURE ABOVE. PROVIDE IN-WALL WD. BLOCKING FOR SECURE SHELVING ATTACHMENT. 3. EXISTING STOREFRONT SYSTEM TO REMAIN. CLEAN \$ REPAIR AS REQUIRED.

4. SEALED CONCRETE FLOOR. PROVIDE 4" RUBBER WALL 5. 3'-0"x7'-0" S.C. WD. DOOR IN PAINTED H.M. FRAME. PROVIDE PASSAGE HARDWARE SET, CLOSER & WALL STOP. 6. 2'-6"x7'-0" S.C. WD. DOOR IN PAINTED H.M. FRAME. PROVIDE STOREROOM LOCKSET, CLOSER & WALL STOP. MOP SINK & WALL-MOUNTED BUCKET-FILLER FAUCET

CODE INFORMATION

MODEL CODES: 2018 International Building Code 2018 International Plumbing Code 2018 International Mechanical Code 2018 International Fuel Gas Code 2018 International Residential Code

2018 International Fire Code 2017 National Electrical Code ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities BUILDING TYPE: OCCUPANCY CLASSIFICATION: B *CARRY-OUT ONLY. NO IN-STORE DINING. TOTAL SQUARE FOOTAGE: OCCUPANT LOAD: KITCHEN PREP: 1/200 x 1,028 S.F. = 5

SPRINKLER STATUS:

STORAGE: 1/300 x 172 S.F. = 1 TOTAL OCCUPANTS: 6 NON-SPRINKLERED

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

1/23/2022

Job Number

ARCHITECTURE

State Certificate of Authority Number:

Gregory D. Highbarger - Architect

MEP CONSULTANT

License - Missouri A-7530

5BY5 Engineers, LLC

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h|d Architecture, LLC

Drawn By Checked By Revisions Number Date 4/4/2022 CITY COMMENTS

© 2022 h|d Architecture, LLC ARCHITECTURAL PLANS & DETAILS

3 PROJECT LOCATION

1 INTERIOR ELEVATION

1'-6"

FLOOR PLAN



VELOCITY

FIRE/SMOKE DAMPER

SMOKE DAMPER

ANNOTATION LEGEND:

ABC−1 EQUIPMENT / FIXTURE TAG

CONNECT TO EXISTING

— AIR FLOW DIRECTION

T THERMOSTAT

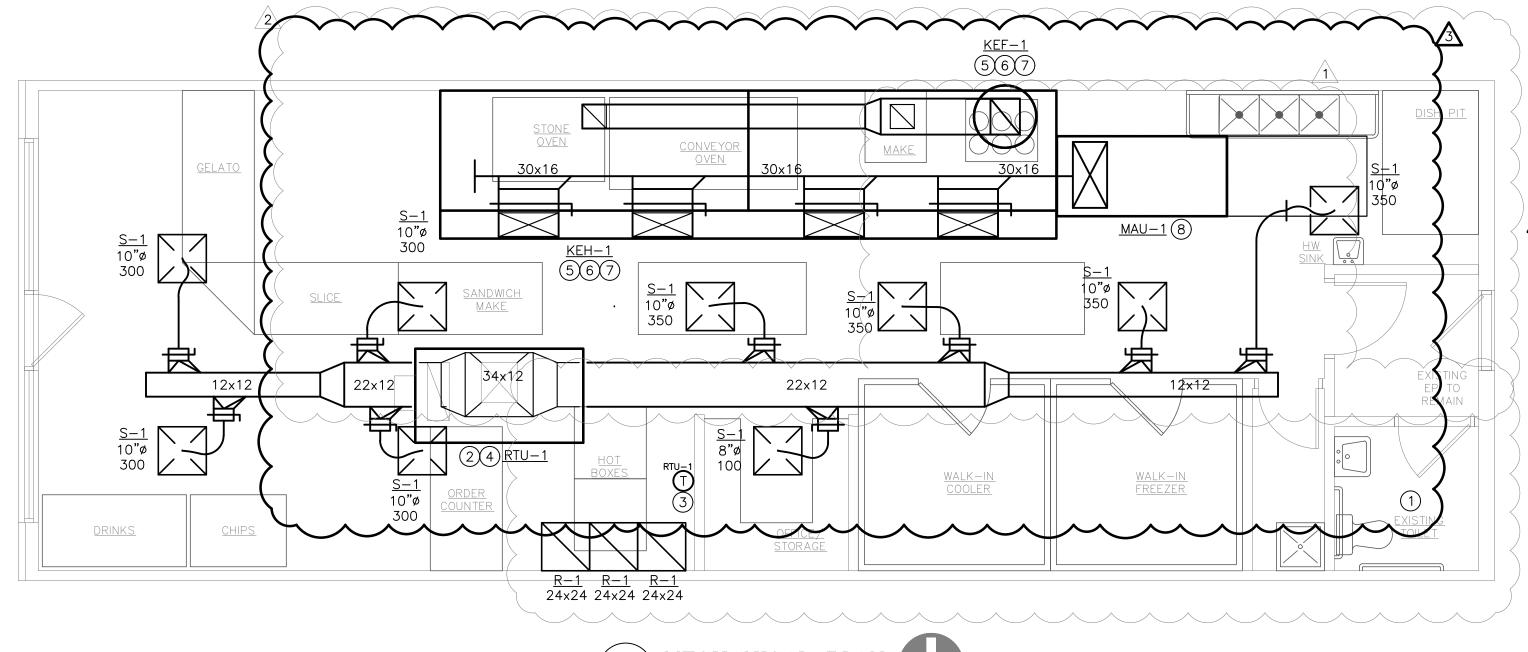
PLAN NOTE

S-1 G/R/D TAG 8¢ NECK SIZE

300 AIR FLOW (CFM)

VARIABLE FREQUENCY DRIVE

WATER PRESSURE DROP



				- 10	7					12 X X 1		TOCITEDO			74		36				A	
						SUPPLY	/ FAN			10:	(0	COOLING	20		HEA	ATING (GAS	5)	ELE	CTRICAL	8.	WEIGHT	
TAG	MANUF	MODEL	SERIES	TONS	CFM	OA CFM	НР	ESP (IN)	TYPE	TOT CAP (MBH)	SENS CAP (MBH)	EAT (DB/WB)	LAT (DB/WB)	IEER (MIN)	OUTPUT (MBH)	INPUT (MBH)	STAGES	VOLTAGE	MCA	МОСР	(LBS)	NOTES
RTU-1	YORK	ZR090	SUNPRO	7.5	2700	900	3	0.6	R-410A	90	64.8	80/67	59.4/57.2	13.8	144	180	2	208/3	42.4	50	1300	ALL
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OTES:																						
	E WITH CONT	DOLLED AND	CONTROL DEVI	CEC DV MA	NUICACTUE	DED DECED TO	SEOU!	ENCES OF OD	EDATION													
		ROLLER AND C					J SEQUI	INCES OF OPI	EKATION.													
		COMPATIBLE				IAI.																
		DRY BULB TYP																				
. PROVID	E NEW CURB	AT EXISTING C	URB LOCATION	N. CONTRA	CTOR OPTI	ION TO PROV	IDE MA	NUFACTERER	'S STANDARI	CURB ADA	PTER TO CO	NNECT TO EXIST	TING ROOFTOR	UNIT CURB INS	STEAD.							
. PROVID	E WITH NON-	POWERED WE	ATHER-PROOF	DUPLEX R	ECEPTACLE																	
. PROVID	E WITH 2" TH	ICK, MINIMUM	MERV-8 FILT	ERS.																		
. PROVID	E WITH FACT	ORY-MOUNTE	D RETURN AIR	SMOKE DE	TECTOR.																	
. PROVID	E WITH COND	DENSER COIL G	UARDS.																			
. UNIT SIZ	ED FOR 100°	F AMBIENT CO	NDENSING TE	MPERATUR	E.																	
0. PROVID	E WITH MAN	UFACTURER'S	STANDARD DIS	SCONNECT	SWITCH.																	
1. PROVID	E WITH HOT	GAS REHEAT C	OIL FOR DEHU	MIDIFICATI	ON CONTR	ROL SEQUENC	CE.															
.2. PROVID	E SPACE MOU	JNTED HUMID	ITY SENSOR TO	ENABLE D	EHUMIDIF	ICATION.																

ROOFTOP UNIT SCHEDULE

TAG	OCCUPANCY CLASSIFICATION	AREA (FT²)	OCCUPANTS (QTY)	R _P (CFM/PERSON)	MIN OCCUPANT O/A FLOW (CFM)	R _A (CFM/FT ²)	:	MIN REQ'D O/A FLOW (CFM)	1	NOTES
	WAITING	368	6	5	30	0.06	23			<u> </u>
RTU-1	OFFICE	39	1	5	5	0.06	3	234	900	ALL
	KITCHEN	618	13	7.5	97.5	0.12	75			

1. Rp REPRESENTS PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3. 2. Ra REPRESENTS AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3.

	(GRILLES, REG	SISTERS AND	DIFFUSE	RS		
TAG	MANUFACTURER	MODEL	MOUNTING	FACE SIZE	MAX NC	MAX DP	NOTES
S-1	PRICE	SCD	CEILING	24x24	30	0.1	ALL
R-1	PRICE	PDDR	CEILING	24x24	30	0.1	3,4

1. NECK SIZE SHOWN ON PLANS. 2. 4 WAY THROW UNLESS INDICATED OTHERWISE ON PLANS.

3. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING/WALL COLOR. VERIFY WITH ARCHITECT PRIOR TO ORDER.

4. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.

		<u></u>	T	T			KEUP AI	1	T = . =		[T		T	
TAG	AREA SERVED	MANUFACTURER	MODEL	MOUNTING	AIR FLOW (CFM)	ESP (IN.WG)	MOTOR POWER	DRIVE TYPE	EAT (DEGF)	LAT (DEGF)	GAS INPUT (MBH)	OUTPUT (MBH)	V/PH	MCA	МОСР	NOTES
MAU-1	KITCHEN HOODS	GREENHECK	DGX	ROOF	4000	0.75	3 HP	DIRECT	0	60	250.0	230.0	208/3	13.7	20	ALL

13. PROVIDE RTU WITH HINGED AND TOOLESS ACCESS WITH SLIDE OUT BLOWER MOTOR ASSEMBLY.

1. PROVIDE WITH MANUFACTURER'S RECOMMENDED ROOF CURB ADAPTER WITH FINAL FILTER CABINET. OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 36" ABOVE THE FINISHED ROOF. 2. PROVIDE FANS WITH VARIABLE FREQUENCY DRIVES FOR BALANCING PURPOSES ONLY.

3. PROVIDE ELECTRICAL WIRING AS REQUIRED FOR A SINGLE DISCONNECT MEANS.

4. REPLACE FILTERS AT COMPLETION OF WORK.

5. EXTERNAL STATIC PRESSURE (ESP) ACCOUNTS FOR DUCTWORK AND AIR DISTRIBUTION LOSSES, PLUS AN ALLOWANCE FOR DIRTY FILTERS. INTERNAL LOSSES (COIL PRESSURES, CLEAN FILTERS, ETC.) SHALL BE INCLUDED IN THE FAN TOTAL STATIC PRESSURE (TSP).

6 INTERLOCK MAKE-UP AIR UNIT WITH HOOD SYSTEM TO OPERATE WHEN THE HOOD IS IN OPERATION.

(-) <u>MECHANICAL PLAN NOTES:</u>

DRAWINGS.

1. EXISTING BATHROOM TO REMAIN. NO NEW WORK.

- 2. PROVIDE NEW ROOFTOP UNIT AT EXISTING ROOFTOP UNIT
- LOCATION. PROVIDE NEW ROOFTOP UNIT CURB AS REQUIRED. 3. PROVIDE NEW THERMOSTAT WHERE INDICATED ON PLAN. PROVIDE NEW CONTROL WIRING AS REQUIRED TO

ACCOMMODATE NEW LOCATION. WIRE TO HVAC UNIT

- CONTROLLER PER INSTALLATION INSTRUCTIONS. 4. EXTEND SUPPLY AND RETURN AIR DROPS FROM RTU'S TO BELOW STRUCTURE. EXTEND SUPPLY DUCT HORIZONTALLY AS
- SHOWH . ROUTE EXHAUST DUCT FROM HOOD TO ROOF MOUNT UPBLAST EXHAUST FAN (FAN AND HOOD BY OWNER). LOCATE DISCHARGE AT MINIMUM OF 10'-0" FROM ANY BUILDING OPENINGS, OUTDOOR AIR INTAKES OR FIRE SEPARATIONS. SEE KITCHEN HOOD EXHAUST EQUIPMENT DRAWINGS FOR INFORMATION RELATED TO EXHAUST FANS, HOODS, AND THEIR INSTALLATION. KITCHEN EXHAUST SYSTEM DRAWINGS

PROVIDED BY OWNER. COORDINATE WITH APPROVED SHOP

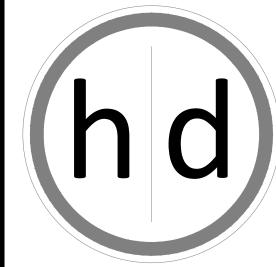
- 6. INSTALL KITCHEN EXHAUST HOODS AND DUCTWORK FROM HOOD TO EXHAUST FAN PER MANUFACTURER'S RECOMMENDATIONS. SEE KITCHEN EXHAUST DRAWINGS FOR INFORMATION RELATED TO EXHAUST FAN AND INSTALLATION. KITCHEN EXHAUST SYSTEM DRAWINGS PROVIDED BY OWNER. COORDINATE WITH APPROVED SHOP DRAWINGS.
- NEW KITCHEN EXHAUST HOOD SYSTEM TO BE PROVIDED BY OWNER. HOOD SHALL BE FULLY COMPLIANT WITH THE 2018 INTERNATIONAL MECHANICAL CODE SECTION 506 AND INCLUDE THE FOLLOWING: EXHAUST HOOD WITH DIMENSIONS THAT EXTEND MINIMUM OF 6" BEYOND THE APPLIANCES IT SERVES, HOOD EXHAUST FAN AND EXHAUST CONNECTION AND HOOD MAKE-UP AIR UNIT AND SUPPLY PLENUM WITH MAKE-UP AIR CONNECTIONS. EXHAUST DUCTWORK SHALL BE BLACK IRON DUCTWORK WITH 2 LAYERS OF FIRE WRAP AS REQUIRED BY SECTION 506 OF THE INTERNATIONAL MECHANICAL CODE.
- 8. PROVIDE NEW MAKE UP AIR UNIT AS SHOWN FOR MAKE-UP AIR TO EXHAUST HOOD SUPPLY PLENUM. COORDINATE EXACT CONNECTION REQUIREMENTS WITH OWNER PROVIDED HOOD DRAWINGS. COORDINATE WITH STRUCTURAL ENGINEER FOR EXACT LOCATION.

MECHANICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO START OF WORK.
- MECHANICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED ELECTRICAL POWER WIRING AND ROUGH-IN FOR LOW-VOLTAGE CONTROL WIRING. PROVIDE ALL CONTROL WIRING AND FINAL CONTROL DEVICE (E.G. THERMOSTATS).
- RECOMMENDATIONS FOR THE PRESSURE CLASSIFICATIONS ENCOUNTERED. •• LOW PRESSURE SUPPLY AIR: +2.0 IN.WG ●● RETURN AIR: -2.0 IN.WG

FABRICATE AND INSTALL DUCTWORK PER SMACNA

- • EXHAUST AIR (UPSTREAM OF FAN): −2.0 IN.WG •• EXHAUST AIR (DOWNSTREAM OF FAN): +1.0 IN.WG
- PROVIDE MITERED ELBOWS AT CHANGES IN DIRECTION IN RECTANGULAR DUCTWORK. PROVIDE TURNING VANES IN ALL ELBOWS WHERE AIRFLOW CHANGES DIRECTION AT ANGLES 45° AND GREATER, EXCEPT FOR RETURN AIR TRANSFER DUCTS.
- PROVIDE DUCT WRAP INSULATION FOR ALL ROUND AND RECTANGULAR SUPPLY AIR DUCTWORK. DUCT WRAP INSULATION SHALL BE 2" THICK, MINIMUM R-6.0 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.
- CONTRACTOR OPTION: PROVIDE INTERNAL LINER INSULATION FOR SUPPLY AIR DUCTWORK. INTERNAL LINER INSULATION SHALL BE 1" THICK, 2 LB/FT3 ACOUSTICAL DUCT LINER INSULATION WITH MINIMUM R-6.0. DUCT LINER IS NOT ALLOWED FOR HOSPITAL USE.
- PROVIDE INTERNAL LINER INSULATION FOR ALL RECTANGULAR RETURN AIR TRANSFER DUCTWORK. INTERNAL LINER INSULATION SHALL BE 1" THICK, 2 LB/FT3 ACOUSTICAL DUCT LINER INSULATION.
- DUCT DIMENSIONS SHOWN ON THE PLANS INDICATE THE FREE AREA DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO MEET FREE AREA DIMENSIONS WITH LINER INSTALLED.
- FLEXIBLE DUCTWORK SHALL HAVE 2" THICK, MINIMUM R-6.0 INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH FOR SUPPLY AIR APPLICATIONS AND 3'-0" IN
- LENGTH FOR RETURN AIR AND EXHAUST AIR APPLICATIONS. PROVIDE BALANCING DAMPERS IN DUCT TAKE-OFFS TO AIR
- DEVICES IN LAY-IN CEILINGS, IN THE NECKS OF AIR DEVICES IN GYP BOARD CEILINGS, AND IN THE NECKS OF SIDE WALL AIR DEVICES FOR PROPER AIR BALANCING.
- TOILET ROOM EXHAUST FANS SHALL BE AS SCHEDULED. PROVIDE A MINIMUM OF 75 CFM EXHAUST PER FLUSH
- COORDINATE ALL REQUIRED ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO AVOID ROOF WARRANTY CONFLICTS.
- VERIFY AVAILABLE SPACE ABOVE ALL CEILINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY DUCTWORK. COORDINATE DUCT INSTALLATION WITH OTHER TRADES.
- ALL DIMENSIONS SHOWN ON PLAN ARE IN INCHES, UNLESS EXPLICITLY LABELED OTHERWISE.
- PROVIDE A COMPLETE TEST AND BALANCE BY A NEBB CERTIFIED TEST AND BALANCE AGENCY.
- PROVIDE ACCESS PANELS AND ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT, VALVES, DAMPERS AND DEVICES
- INSPECT ALL EXISTING MECHANICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF
- LABEL ALL DUCTWORK, PIPING, MAINTENANCE DEVICES, AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.



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BROCK CËNTLIVRE, LICENSED ENGINEER

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1/14/2022 Job Number Drawn By

Checked By Revisions Number Date Description 3 07/19/2022 MISC. REV.

LEE'S SUMMIT, MISSOURI 08/02/2022

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LINETYPES LEGEND:

NEW - ABOVE SLAB --- NEW - BELOW SLAB EXISTING - ABOVE SLAB

--- Existing - Below slab

PIPING LEGEND:

---- DEMOLITION

G— ELBOW DOWN **O**-→ ELBOW UP

CC→ P-TRAP C TEE DOWN

Section Secti → SHUT-OFF VALVE (GENERIC)

BALL VALVE

GLOBE CLOBE VALVE

BFLY BUTTERFLY VALVE

GATE CATE VALVE

← CHECK VALVE

₩ BALANCING VALVE

→ PRESSURE REDUCING VALVE

Output

Description:

≟**⊣⊽**H GAS COCK

₩YE-STRAINER

RELIEF VALVE

 \rightarrow AIR VENT (MANUAL / AUTOMATIC)

FLOW DIRECTION

← PIPE BREAK / CONTINUATION

FLOOR DRAIN

FLOOR SINK

FLOOR CLEANOUT + HOSE BIBB

ANNOTATION LEGEND:

<u>ABC-1</u> EQUIPMENT / FIXTURE TAG (-) PLAN NOTE

CONNECT TO EXISTING

ABBREVIATIONS LEGEND:

AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE BOTTOM OF PIPE BATHTUB CFH CUBIC FEET PER HOUR CLEANOUT DOMESTIC COLD WATER DRINKING FOUNTAIN DOWN DOWNSPOUT NOZZLE DSN **EXISTING** EXPANSION TANK ELECTRIC WATER COOLER EYE WASH STATION FCO FLOOR CLEANOUT

FLOOR DRAIN FINISHED FLOOR FFA FROM FLOOR ABOVE FFB FROM FLOOR BELOW FLOOR SINK

GREASE INTERCEPTOR GPM GALLONS PER MINUTE HOSE BIBB HB HORSEPOWER

HWR HOT WATER RECIRCULATION INVERT ELEVATION IN.WG INCHES WATER GAUGE JANITOR SINK

LINT INTERCEPTOR LAUNDRY SINK LAVATORY MAXIMUM MAX

MB MOP BASIN 1,000 BTUH MBH MINIMUM MIN

NATURAL GAS NON-FREEZE HOSE BIBB NRH NON-FREEZE ROOF HYDRANT

OVERFLOW ROOF DRAIN QUANTITY ROOF DRAIN

RECIRCULATION PUMP SANITARY WASTE

SHOWER SINK SERVICE SINK SEWAGE PUMP TRENCH DRAIN TO FLOOR ABOVE

TO FLOOR BELOW THERMOSTATIC MIXING VALVE TO ROOF ABOVE TSP TOTAL STATIC PRESSURE UR VENT WATER CLOSET

WATER HEATER

WPD WATER PRESSURE DROP

WCO WALL CLEANOUT

WH

PLUMBING GENERAL NOTES:

 DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS COORDINATE ALL PLUMBING WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO BID OR START OF WORK.

 PLUMBING WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

 PRIOR TO START OF WORK, CONTRACTOR SHALL CAMERA ALL EXISTING UNDERGROUND SANITARY SEWER LINES. VERIFY UNDERGROUND PIPING LOCATION, DEPTH AND FLOW DIRECTION. REPORT ANY PIPING DAMAGE OR LOCATION DISCREPANCIES TO ENGINEER AND/OR OWNER PRIOR TO START OF WORK.

 EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OF CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (E.G. DOMESTIC WATER, SEWER, VENT, AND NATURAL GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANIES.

 SANITARY WASTE, VENT, AND STORM PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH SOLVENT-WELDED

 SANITARY WASTE, VENT, AND STORM PIPING ABOVE GRADE SHALL BE NO-HUB CAST IRON IN RETURN AIR PLENUM APPLICATIONS. PVC OR ABS PIPING CAN BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.

 SLOPE SANITARY PIPING AS FOLLOWS: 1/4" PER FOOT FOR PIPE SIZES 2-1/2" AND SMALLER, AND 1/8" PER FOOT FOR PIPE SIZES 3" AND LARGER.

 COORDINATE CONDENSATE DRAIN REQUIREMENTS WITH THE HVAC CONTRACTOR AND OTHER TRADES.

 CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER PIPING WITH WROUGHT FITTINGS AND SOLDERED JOINTS IN RETURN AIR PLENUM APPLICATIONS. PVC CAN BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.

• SLOPE CONDENSATE DRAIN PIPING AS FOLLOWS: 1/4" PER FOOT FOR ALL PIPE SIZES.

 PROVIDE WATER SUPPLY SHUT-OFF VALVES ON EACH TOILET ROOM GROUP AND TO MISCELLANEOUS EQUIPMENT.

 PROVIDE SIZE "A" WATER HAMMER ARRESTORS ON SUPPLY TO ALL PLUMBING FIXTURES.

 PROVIDE STOP VALVES ON ALL INDIVIDUAL PLUMBING FIXTURE SUPPLIES.

 COORDINATE SELECTION OF ALL PLUMBING FIXTURES WITH ARCHITECT AND OWNER. ALL HANDICAPPED FIXTURES (WHERE REQUIRED) SHALL COMPLY WITH A.D.A.

 DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE K SOFT COPPER WITH FLARED FITTINGS OR TYPE K HARD COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.

 DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE L COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.

 WHERE ALLOWED BY CODE, CROSS-LINKED POLYETHYLENE (PEX) PIPING MAY BE USED IN LIEU OF COPPER PIPING. ADJUST SIZING OF PIPING FOR REDUCED FREE AREA OF PEX PIPING. ALL PEX PIPE ROUTED IN RETURN AIR PLENUMS MUST MEET THE FLAME SPREAD RATING AND SMOKE DEVELOPED RATING FOR SUCH APPLICATIONS.

 INSULATE NEW DOMESTIC COLD WATER, HOT WATER, HOT WATER RECIRCULATION, INTERIOR CONDENSATE DRAIN, AND STORM PIPING WITH MINIMUM 1" FIBERGLASS INSULATION (MINIMUM R-4.0) WITH PAPER COVERING.

 ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE FITTINGS. SUPPORT PIPING AT INTERVALS NOT TO EXCEED THOSE LISTED IN TABLE 415.1 OF THE INTERNATIONAL FUEL GAS CODE.

 PROIVDE RUST—INHIBITOR ON PAINT ALL NATURAL GAS PIPING LOCATED EXTERIOR TO THE BUILDING.

 PROVIDE A.G.A. APPROVED GAS COCKS AND DIRT LEGS AT CONNECTIONS TO ALL GAS-FIRED EQUIPMENT.

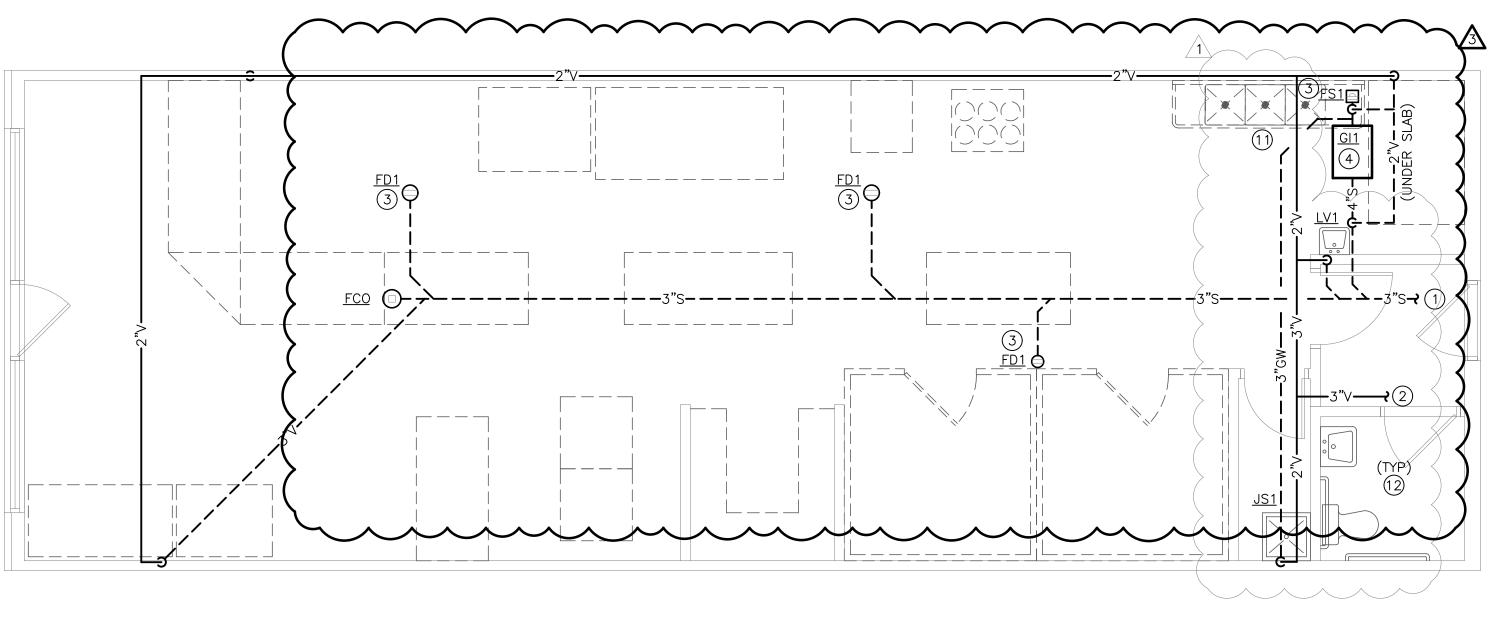
 INSTALL ALL PLUMBING EQUIPMENT, FIXTURES, VALVES, ETC. PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ADDITIONAL APPURTENANCES PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

 INSTALL CLEANOUTS AT EVERY END OF SANITARY PIPING RUNS, AT MINIMUM OF EVERY 100'-0" OF SANITARY PIPING. AND AT EVERY CHANGE IN DIRECTION GREATER THAN 45°. REFER TO SECTION 708 OF THE INTERNATIONAL PLUMBING CODE FOR ADDITIONAL REQUIREMENTS.

REDUCED PRESSURE ZONE BACKFLOW PREVENTER • ALL FLOOR DRAINS SHALL HAVE A 2" THROAT AND P-TRAP UNLESS NOTED OTHERWISE.

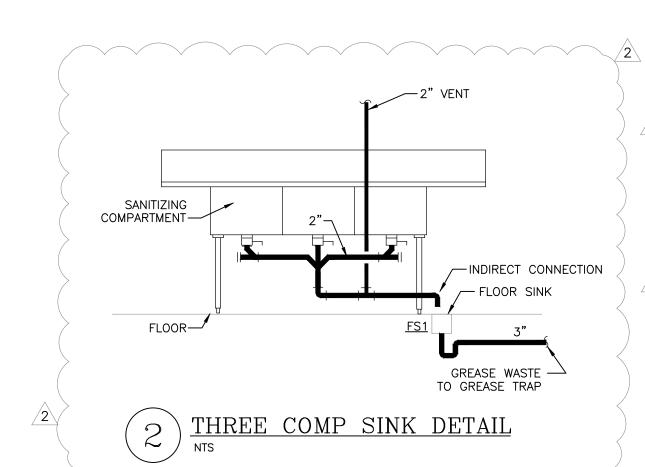
 PLUMBING CONTRACTOR SHALL INSPECT ALL PLUMBING EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.

 CONTRACTOR SHALL LABEL ALL PIPING, VALVES AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.



PLUMBING WASTE & VENT PLAN

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



(-) PLUMBING PLAN NOTES:

1. EXTEND 3" SANITARY TO EXISTING SANITARY MAIN SERVING THIS SPACE. FIELD VERIFY EXACT LOCATION AND FLOW DIRECTION.

2. EXTEND NEW 3" VENT SYSTEM TO EXISTING VENT SYSTEM SERVING RESTROOM. FIELD VERIFY EXISTING LOCATION. MAINTAIN A MINIMUM OF 10'-0" FROM ANY AIR INTAKE OR BUILDING OPENING.

3. COORDINATE EXACT LOCATION OF ALL FLOOR SINKS AND FLOOR DRAINS WITH FINAL OWNER EQUIPMENT LAYOUT. COORDINATE EXACT ROUGH-IN LOCATION OF ALL UTILITIES WITH FINAL OWNER EQUIPMENT LAYOUT AND CAPACITIES. CONNECT UTILITIES TO ALL KITCHEN EQUIPMENT PER KITCHEN EQUIPMENT MANUFACTURER REQUIREMENTS, FIXTURE CONNECTION SCHEDULE AND LOCAL CODES. ROUTE ALL

KITCHEN EQUIPMENT INDIRECT DRAINS TO NEAREST FLOOR

4. LOCATE GREASE INTERCEPTOR ON STAND WHERE SHOWN. COORDINATE HEIGHT OF STAND AS REQUIRED TO MEET FLOW LINE OF GREASE WASTE PIPING CONNECTING TO EXISTING SYSTEM. PROVIDE FLOW CONTROL DEVICE ON GREASE INTERCEPTOR INLET WHERE SHOWN. ALL KITCHEN DRAINAGE SHALL ENTER THE FLOW CONTROL DEVICE BEFORE ENTERING THE GREASE INTERCEPTOR. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL GREASE TRAP AND VENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

5. EXTEND COLD WATER DOWN TO BEVERAGE SYSTEM. CONNECT TO BEVERAGE SYSTEM THROUGH A BEVERAGE RATED DOUBLE-CHECK VALVE BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODE. COORDINATE WITH FIXTURE CONNECTION SCHEDULE FOR ADDITIONAL REQUIREMENTS

. PROVIDE NEW 3" NATURAL GAS SERVICE WHERE SHOWN. SPLIT NATURAL GAS TO 2 LINES AS INDICATED (EACH LINE SHALL BE 2" MIN SIZE). REFER TO NATURAL GAS LOAD SCHEDULE FOR DISTANCE, CAPACITY AND SIZING DETAILS. EXTEND NATURAL GAS TO ROOFTOP UNIT ON ROOF. PROV DIRT LEG AND GAS COCK AT ROOFTOP UNIT CONNECTION. REFER TO ROOFTOP UNIT INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH HVAC CONTRACTOR.

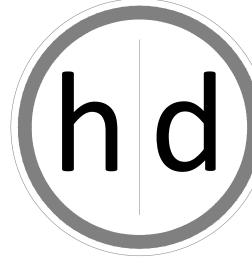
8. LOCATE WATER HEATER WHERE SHOWN. CONNECT WATER PIPING AND EXPANSION TANK TO WATER HEATER SYSTEM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT NATURAL GAS TO WATER HEATER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODE. EXTEND FLUE/VENT PIPING AND COMBUSTION AIR PIPING TO ROOF AND LOCATE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

9. EXTEND 2" NATURAL GAS DOWN TO SERVE COOKLINE AS INDICATED. PROVIDE SOLENOID VALVE AS PART OF THE KITCHEN HOOD SYSTEM FOR NATURAL GAS SUPPLY TO ALL EQUIPMENT. VALVE SHALL CLOSE IN THE EVENT THAT THE HOOD ANSUL SYSTEM IS DISCHARGED. COORDINATE WITH KITCHEN EXHAUST HOOD SYSTEM MANUFACTURER.

10. EXTEND 3/4"CW TO EXISTING COLD WATER SERVING THIS SPACE. FIELD VERIFY EXACT LOCATION.

11. DISCHARGE WASTE FROM THE THREE-COMPARTMENT SINK TO FLOOR SINK INDICATED. PROVIDE A 1" (MIN) AIR GAP AT DISCHARGE TO FLOOR SINK. DISCHARGE DRAIN LINE THROUGH AN INDIRECT PIPE AS SPECIFIED IN SECTIONS 802.1.1 THROUGH 802.1.8 OF THE INTERNATIONAL PLUMBING CODE.

12. EXISTING PLUMBING FIXTURES IN ROOM INDICATED TO REMAIN.



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> 1 SOM MISSOUT PE-2014007261 / LICENSE #: PE-2014007261 BROCK CËNTLIVRE, LICENSED ENGINEER

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	Date Job Numb Drawn By Checked B		1/14/2022 22-001
	Revisions Number	Date	Description
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PLUMBING FIXTURE SCHEDULE:

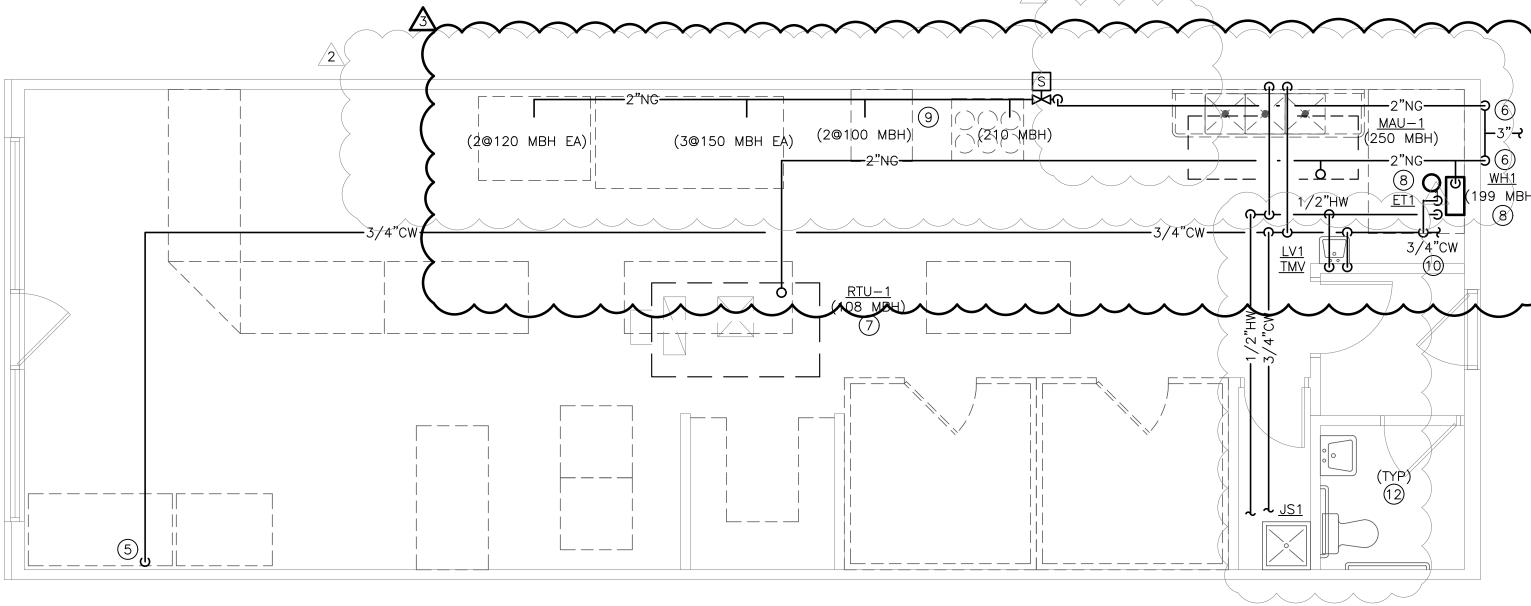
INFORMATION BELOW IS FOR GENERAL FIXTURE REQUIREMENTS ONLY. PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT FOR EXACT FIXTURE REQUIRED FOR THE PROJECT. COORDINATE WITH OWNER FOR INFORMATION ON PROCURING FIXTURES AND ASSOCIATED COSTS. CONTRACTOR SHALL BE CLEAR AS TO WHAT FIXTURES ARE INCLUDED IN THEIR PROPOSED COSTS.

FIXTURES IN THIS SCHEDULE, OR THE APPROVED EQUIVALENT, SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER REQUIREMENTS.

- EXPANSION TANK: 150 PSIG MAXIMUM WORKING PRESSURE. 4.5-GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, AND 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO
- MATCH EXISTING WATER SYSTEM PRESSURE. TYPE: EXPANSION TANK SHALL BE ASME APPROVED, DIAPHRAGM TYPE EXPANSION.
- FLOOR CLEANOUT: CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, HEAVY DUTY SCORIATED NICKEL BRONZE TOP. INSTALL PER MANUFACTURER'S REQUIREMENTS BASED ON FLOORING TYPE USED. PROVIDE ACCESSORIES AS REQUIRED FOR PROPER INSTALLATION. COORDINATE FINISH TYPE WITH ARCHITECTURAL PLANS.
- FLOOR SINK: 6" DEEP (MIN) CAST IRON BODY WITH ACID RESISTING ENAMELED INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES, CLAMP COLLAR, ALUMINUM SEDIMENT BUCKET AND NICKEL BRONZE RIM AND HALF GRATE. USE PUSH ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. PROVIDE ADAPTER FOR CONNECTION TO DRAIN PIPING MATERIAL USED.
- GREASE INTERCEPTOR: SCHIER MODEL GB3 BELOW GRADE SEAMLESS POLYETHYLENE TANK TYPE GREASE INTERCEPTOR WITH COVER. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 AND CSA B481.1. PROVIDE WITH BUILT-IN TEST CAPS WATER/GAS-TIGHT SEAL ON COVER. PROVIDE PUMPOUT PORT KIT AND ASSOCIATED FLOW RISER. FLOW RATE OF 50 GPM AND 270 LBS OF GREASE CAPACITY. 4" INLET AND OUTLET. PROVIDE FLOW RESTRICTORS (MAX 50 GPM) ON ALL DISCHARGE DRAINS SERVING THIS INTERCEPTOR.
- JANITOR'S SINK: 24"W x 24"L x 10"H MOLDED FIBER BASIN WITH INTEGRAL STAINLESS STEEL DRAIN BODY. FAUCET: FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER,
- PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD. • TRIM: TYPE 304 20-GAUGE STAINLESS STEEL WALL SURROUNDS, 3'-0" LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, EXTRUDED VINYL BUMPER GUARD, AND 2'-0"

STAINLESS STEEL MOP HANGER.

- WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE
- AND FRONT OVERFLOW. FAUCET: FAUCET WITH 4" CENTERSET, VANDAL—RESISTANT, WITH LEVER HANDLES AND 0.5 GPM AERATOR.
- TRIM: GRID DRAIN WITH TAILPIECE, QUARTER-TURN BALL TYPE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 1-1/4" 17-GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, AND INSULATION KIT FOR WATER AND WASTE PIPES.
- THERMOSTATIC MIXING VALVE: SOLID BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. MAXIMUM TEMPERATURE STOP SET FOR 110 DEGREES. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON
- WATER HEATER: NATURAL GAS, CONTINUOUS TYPE, 199 MBH INPUT, 90°F TEMPERATURE RISE AND 140°F OPERATING TEMPERATURE. PROVIDE ALL WATER CONNECTIONS, VALVES, AND SPECIALS PER
- MANUFACTURER'S INSTALLATION REQUIREMENTS. ELECTRICAL REQUIREMENTS: 120 VOLT, SINGLE PHASE POWER.



) PLUMBING WATER AND GAS PLAN SCALE: 1/4" = 1'-0"

- PLUMBING PLAN NOTES

EXTEND 3" SANITARY TO EXISTING SANITARY MAIN SERVING THIS SPACE. FIELD VERIFY EXACT LOCATION AND FLOW

EXTEND NEW 3" VENT SYSTEM TO EXISTING VENT SYSTEM SERVING RESTROOM. FIELD VERIFY EXISTING LOCATION. MAINTAIN A MINIMUM OF 10'-0" FROM ANY AIR INTAKE OR BUILDING OPENING.

COORDINATE EXACT LOCATION OF ALL FLOOR SINKS AND FLOOR DRAINS WITH FINAL OWNER EQUIPMENT LAYOUT. COORDINATE EXACT ROUGH-IN LOCATION OF ALL UTILITIES WITH FINAL OWNER EQUIPMENT LAYOUT AND CAPACITIES. CONNECT UTILITIES TO ALL KITCHEN EQUIPMENT PER KITCHEN EQUIPMENT MANUFACTURER REQUIREMENTS, FIXTURE CONNECTION SCHEDULE AND LOCAL CODES. ROUTE ALL KITCHEN EQUIPMENT INDIRECT DRAINS TO NEAREST FLOOR

4. LOCATE GREASE INTERCEPTOR ON STAND WHERE SHOWN. COORDINATE HEIGHT OF STAND AS REQUIRED TO MEET FLOW LINE OF GREASE WASTE PIPING CONNECTING TO EXISTING SYSTEM. PROVIDE FLOW CONTROL DEVICE ON GREASE INTERCEPTOR INLET WHERE SHOWN. ALL KITCHEN DRAINAGE SHALL ENTER THE FLOW CONTROL DEVICE BEFORE ENTERING THE GREASE INTERCEPTOR. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL GREASE TRAP AND VENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

5. EXTEND COLD WATER DOWN TO BEVERAGE SYSTEM. CONNECT TO BEVERAGE SYSTEM THROUGH A BEVERAGE RATED DOUBLE-CHECK VALVE BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODE. COORDINATE WITH FIXTURE CONNECTION

PROVIDE NEW 3" NATURAL GAS SERVICE WHERE SHOWN. SPLIT NATURAL GAS TO 2 LINES AS INDICATED (EACH LINE SHALL BE 2" MIN SIZE). REFER TO NATURAL GAS LOAD SCHEDULE FOR DISTANCE, CAPACITY AND SIZING DETAILS. EXTEND NATURAL GAS TO ROOFTOP UNIT ON ROOF. PROVIDE DIRT LEG AND GAS COCK AT ROOFTOP UNIT CONNECTION. REFER TO ROOFTOP UNIT INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH HVAC CONTRACTOR.

8. LOCATE WATER HEATER WHERE SHOWN. CONNECT WATER PIPING AND EXPANSION TANK TO WATER HEATER SYSTEM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT NATURAL GAS TO WATER HEATER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODE. EXTEND FLUE/VENT PIPING AND COMBUSTION AIR PIPING TO ROOF AND LOCATE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

9. EXTEND 2" NATURAL GAS DOWN TO SERVE COOKLINE AS INDICATED. PROVIDE SOLENOID VALVE AS PART OF THE KITCHEN HOOD SYSTEM FOR NATURAL GAS SUPPLY TO ALL EQUIPMENT. VALVE SHALL CLOSE IN THE EVENT THAT THE HOOD ANSUL SYSTEM IS DISCHARGED. COORDINATE WITH KITCHEN EXHAUST HOOD SYSTEM MANUFACTURER.

10. EXTEND 3/4"CW TO EXISTING COLD WATER SERVING THIS SPACE. FIELD VERIFY EXACT LOCATION. 11. DISCHARGE WASTE FROM THE THREE-COMPARTMENT SINK TO FLOOR SINK INDICATED. PROVIDE A 1" (MIN) AIR GAP AT DISCHARGE TO FLOOR SINK. DISCHARGE DRAIN LINE

THROUGH AN INDIRECT PIPE AS SPECIFIED IN SECTIONS

802.1.1 THROUGH 802.1.8 OF THE INTERNATIONAL PLUMBING

12. EXISTING PLUMBING FIXTURES IN ROOM INDICATED TO REMAIN

CODE.

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Number Date

Checked By

1/14/2022

Description

LEE'S SUMMIT, MISSOURI 08/02/2022

3 07/19/2022 MISC. REV.

22-001

BROCK CENTLIVRE, LICENSED ENGINEER

NATURAL GAS LOAD SCHEDULE EQUIPMENT CFH INPUT TOTAL CFH DESCRIPTION RTU-1 ROOFTOP UNIT 130 MAU-1 MAKEUP AIR UNIT 250 250 6 BURNER RANGE/OVEN K-1 210 210 K-2 CONVEYOR OVEN 450 150 K-3 PIZZA OVEN K-4 FRYERS (EST) 100 200 WATER HEATER WH1 199 199 SYSTEM TOTAL = 1,679 A. METER DISCHARGE PRESSURE: 11 IN.WG.

C. DESIGN NATURAL GAS PIPING SYSTEM PRESSURE DROP: 0.5 IN.WG

D. INLET PRESSURE FOR ALL GAS-FIRED EQUIPMENT: 7 TO 11 IN.WG.

FIXTURE CONNECTION SCHEDULE FIXTURE WASTE VENT COLD NOTES HOT SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS CARBONATORS DCVB DISHWASHERS, GLASSWASHER, WAREWASHER SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FLOOR DRAIN 2" 2" --- ---SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS DCVB ICE MAKERS / SODA DISPENSERS JANITOR'S SINK LAVATORY - PUBLIC 1-1/2" 1-1/2" 1/2" 1/2" TMV SINK - HANDWASH

B. TOTAL DEVELOPED LENGTH: 100 FT.

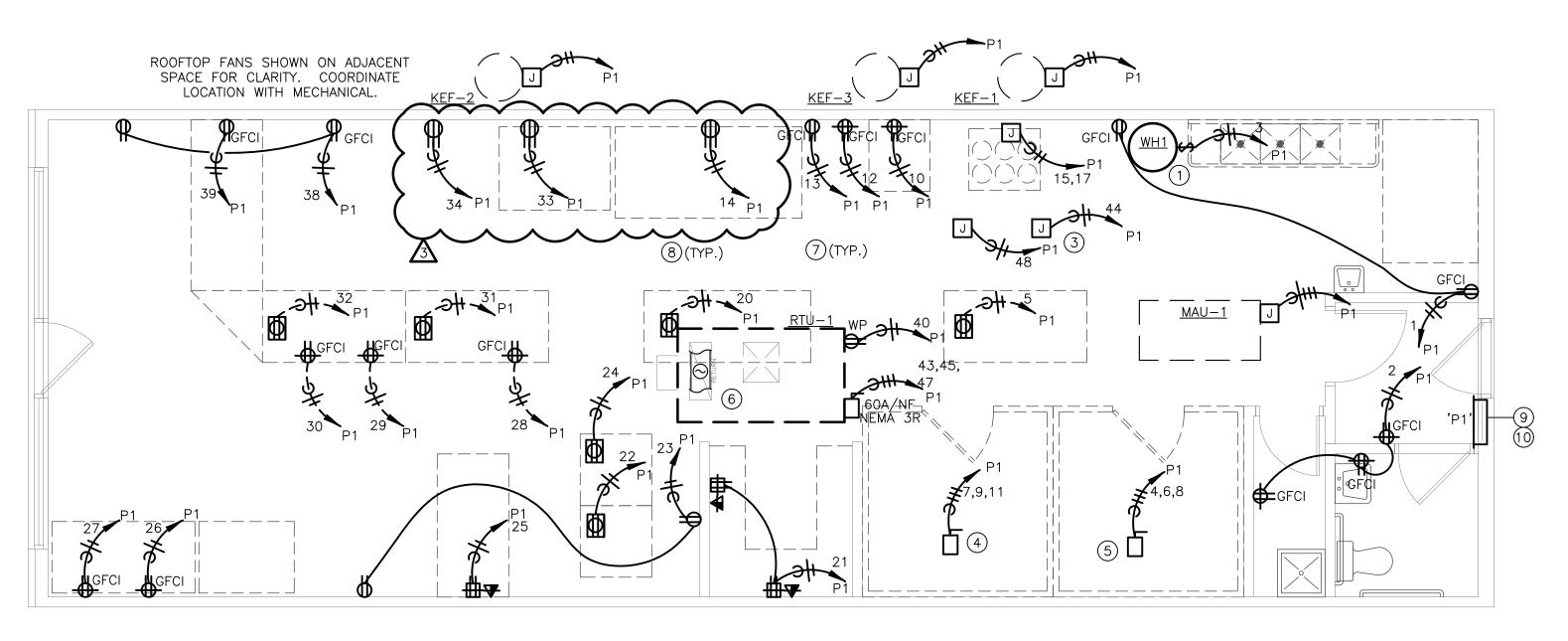
DCV: DOUBLE CHECK VALVE ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1015. DCVB: DOUBLE CHECK VALVE ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1022. RP: REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1013.

TMV: POINT OF USE TYPE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070. VB: ATMOSPHERIC TYPE VACUUM BREAKER CONFORMING TO ASSE 1020.

INSTALL BACKFLOW PREVENTION DEVICES ON EQUIPMENT AND FIXTURES PER LOCAL WATER COMPANY REQUIREMENTS. ALL BACKFLOW PREVENTERS SHALL BE IN AN ACCESSIBLE LOCATION FOR PERIODIC INSPECTION AND TESTING.

B I 100 Main Street, 4th Floor Kansas City, MO 64105 Missouri COA: 2017040776 913-689-9449

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 $1 \frac{\text{POWER PLAN}}{\text{SCALE: 1/4" = 1'-0"}}$

							PANE	ELBO	ARD P	1						
		BUS AMPS: MAIN SIZE / TYPE: VOLTS/PHASE: MOUNTING:	200A MCB 208Y/1: SURFA	Order Commission	SPH, 4W	1	LOCATION NEMA RAT AFC VALU AIC RATIN	N: TING: E:	ELECTRIC NEMA 1 FIELD VER 10,000	AL ROOM		ISOI FEE		JND BUS: NO J LUGS: NO		
NOTES	CKT #	CIRCUIT DESCRIPTION	BREA AMPS	_	WRE SIZE	LOAD (VA)	CONNEC	TED PER P	PHASE (VA)	LOAD (VA)	WRE SIZE	BR P	EAKER AMPS	CIRCUIT DESCRIPTION	CKT #	NOTE
NOTES	1 CEN	I. RECEPT.	20	1	#12	360	720			360	#12	1		RECEPT - RESTROOM	2	INOTE
ŀ		TER HEATER WH1	20	1	#12	200	120	2,001	1	1,801	#12	-	20	RECEFT - RESTROOM	4	-
GFCI	-	AD PREP TABLE	20	1	#12	1,200	1	2,001	3,001	1,801	#12	3	20	WALK-IN FREEZER	6	1
700 TO	7				11.1.	1,801	3,602	1		1,801					8	1
İ	9 WAI	K-IN COOLER	20	3	#12	1,801		2,641		840	#12	1	20	DOUGH SHEETER	10	
	11		47,100,00		8 32 8 33 4	1,801	-	-	1,981	180	#12	1	20	PIZZA PREP RECEPT.	12]
GFCI		A PREP TABLE	20	1	#12	1,800	2,550			750	#12	1		CONVEYER OVEN	14]
	15 EX.	HOOD LTG & CNTRLS	20	2	12	432		432		0		1	111-231-11	SPARE	16	4
,	17					432		- -	432	0		1		SPARE	18	
}	19 SPA	NO CONTROL OF THE PROPERTY OF	20	1	440	0	1,200	0.000	1	1,200	#12	1		HOT BOXES TABLE	20	GFCI
ŀ		ICE RECEPTACLES	20	1	#12	1,080	-	2,280	1.500	1,200	#12	1		HOT BOXES TABLE HOT BOXES TABLE	22	GFCI
		I. RECEPT. S SYSTEM	20	1	#12 #12	360 900	3,420	1 2	1,560	1,200 2,520	#12 #10	1		DISPLAY FRIG.	24	GFCI GFCI
GFCI		NKS - DISPLAY FRIG.	30	1	#12	2,520	3,420	2,700	1	180	#10	1		SANDWICH MAKER TABLE RECEPT		GFCI
GI CI	29 SLIC	The same of the sa	20	1	#12	840	1	2,700	1,020	180	#12	1		GEN. RECEPT.	30	1
ŀ		DWICH MAKING TABLE	20	1	#12	1,200	3,000	1	1,020	1,800	#12	1		BY THE SLICE COOLER	32	GFCI
ŀ	IDAMA COLORADO	CKOVEN	20	1		750	0,000	1,500	1	750	#4	2	UNICOS	DECK OVEN	34	
İ	35 SPA		20	1		0	1		0	0		1		SPARE	36	1
Ì	37 SPA	RE	20	1		0	360			360	#12	1	20	GEN. RECEPT.	38	1
	39 GEL	ATO DISPLAY FREEZER	20	1	#12	1,200		1,380		180	#12	1	20	RTU RECEPT. (ON ROOF)	40]
[41 SPA	177-0352	20	1		0			900	900	#12	1	20	LTG	42	
$\nearrow \downarrow$	SECTION:		\nearrow	<u> </u>			\sim	\sim					<u> </u>		<u> </u>	
- 1	43					3,750	4,250	0.750	,	500	#12	1		OVEN CONTROLS	44	
}		J-1 7.5 TON	50	3	#8	3,750	-	3,750	4.050	500	#12	\sim		SHUNT TRIP SECTION	46	-
ŀ	47 49 SPA	DE	20	1		3,750 0	0	1	4,250	500	#12	1		STOVE CONTROLS SHUNT TRIP SECTION	48 50	-
ŀ	51 SPA	10.00000	20	1		0	0	0	Î	0		1		SPARE	52	1
ŀ	53 SPA		20	1		0	-		0	0		1		SPARE	54	1
İ	55 SPA					0	0	1		0		1		SPARE	56	1
İ	57 SPA					0		0		0	11			SPACE	58	
[59 SPA	CE				0		= 60	0	0				SPACE	60]
Į.	61 SPA					0	0			0				SPACE	62	
	63 SPA		42			0		0		0				SPACE	64	4
	65 SPA					0		16	0	0	1			SPACE	66	4
	67 SPA					0	0	_	1	0	ļ			SPACE	68	-
	69 SPA		- 4			0	-	0	0	0	-			SPACE SPACE	70	-
ŀ	71 SPA 73 SPA			+ +		0	0	10		0				SPACE	72 74	-
-	75 SPA					0		0	1	0				SPACE	76	1
ŀ	77 SPA	VALUE - 1		k		0	1		0	0				SPACE	78	1
ľ	79 SPA					0	0			0				SPACE	80	1
ľ	81 SPA					0		0]	0	9			SPACE	82	1
	83 SPA					0		.972	0	0				SPACE	84	
			PE	R PH	ASE SU	B-TOTALS	19,102	16,684	13,144	LEGEND:						
		TOTAL	CONNECT					48,930		TS - VIA T	IME SWI	TCH		ST - SHUNT TRIP		
		TOTAL CO					-	136		GF - GRO			NTERRI			
						MAND (VA)		49,155		FA - FIRE	ALADMA	DEE	1100	KING TAB IG - ISOLATED GROUND	1	

ELECTRICAL RISER NOTES 1. RISER IS FOR REFERENCE ONLY OF EXISTING BUSWAY BACK OF TENANT SPACE NEW 200A 120/20EV 3 A-MOSE MCS PANELBOARD C.T. ENCLOSURE 1. RISER DIAGRAM BACK OF TENANT SPACE #3/0 CU, (1) 2" CONDUIT WITH (4) #3/0 CU, (1) \$6CU CKD.

ELECTRICAL GENERAL NOTES:

 REFER TO SHEET E3.0 FOR ELECTRICAL GENERAL DEMOLITION NOTES AND ELECTRICAL GENERAL

ELECTRICAL PLAN NOTES:

PROVIDE POWER CONNECTION TO WATER HEATER
CONTROLS. COORDINATE WITH PLUMBING CONTRACTOR

 PROVIDE POWER CONNECTION TO WATER HEATER
CONTROLS

 PROVIDE POWER CONNECTION TO WATER HEATER

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FOR EXACT REQUIREMENTS AND EXACT LOCATION.

2. ROUTE HOMERUN VIA HOOD CONTROLS.

3. PROVIDE JUNCTION BOX FOR CONNECTION TO EXHAUST HOOD LIGHTING AND CONTROLS. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

PROVIDE POWER CONNECTION TO WALK—IN COOLER.
 CONFIRM EXACT POWER REQUIREMENTS AND LOCATION
 WITH FINAL EQUIPMENT SELECTION.

 PROVIDE POWER CONNECTION TO WALK—IN FREEZER. CONFIRM EXACT POWER REQUIREMENTS AND LOCATION WITH FINAL EQUIPMENT SELECTION.

6. NEW DUCT SMOKE DETECTOR FURNISHED WITH UNIT AND MOUNTED IN RETURN PLENUM. E.C. INSTALL TEST/RESET

7. CONFIRM RECEPTACLE REQUIRMENTS FOR ALL KITCHEN EQUIPMENT PRIOR TO INSTALL. REFERENCE MANUFACTURER SPECIFICATIONS FOR ADDITIONAL INFORMATION.

BUTTON IN ACCESSIBLE LOCATION

DEVICE TO REMAIN.

8. PROVIDE GFCI TYPE RECEPTACLE FOR ALL KITCHEN RECEPTACLES. FOR LARGE EQUIPMENT PROVIDE GFCI TYPE CIRCUIT BREAKER AT PANEL FOR EASE OF ACCESS.

9. REMOVE EXISTING PANELBOARD AND ALL ASSOCIATED CONDUIT AND CIRCUITRY BACK TO SOURCE OR TO NEARS

10. PROVIDE NEW 400A 120/208V 3 PHASE 4 WIRE 84
POLE MCB PANELBOARD TO SERVE SPACE. PROVIDE NEW
FEEDER CONNECTION FROM EXISTING BUSWAY ON BACK
OF BUILDING TO NEW PANELBOARD. CONFIRM NEW
PANELBOARD MAY BE INSTALLED IN GENERAL LOCATION
SHOWN. NOTIFY ENGINEER OF DISCREPANCIES.

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BRECK CENTLIVRE NUMBER PE-2014007261 7/19/22

7/19/22

LICENSE #: PE-2014007261

BROCK CENTLIVRE, LICENSED ENGINEER

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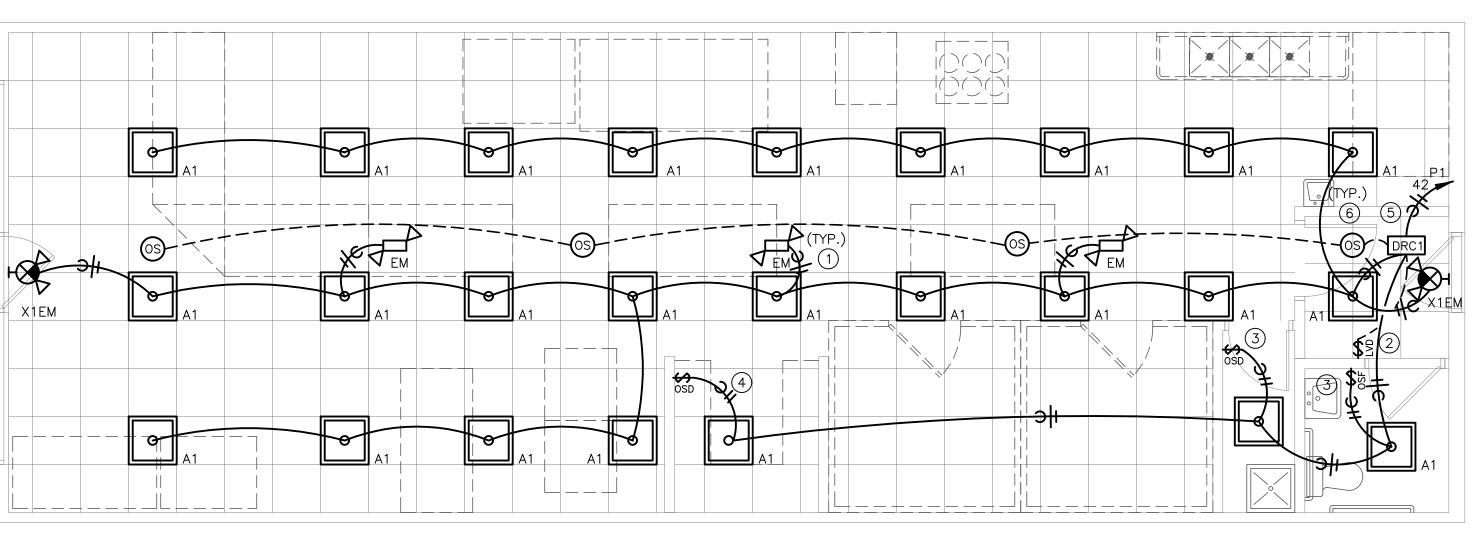
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						LIGHT FIX	TURE SCH	HEDULE				
TYPE	MANUFACTURER AND MODEL#	EQUAL MANUFACTURER AND MODEL#	LIGHT SOURCE	WATTS	MINIMUM LUMENS	VOLTAGE	CRI	COLOR TEMP	DIMMABLE	FINISH	DESCRIPTION	NOTES
A1	HE WILLIAMS 50G-S-2-2-L43-9 40-F-AF12125-DIM-UNV	LITHONIA	INTEGRAL LED	34	4360	UNV	80	4000	0-10V / 10%	WHITE	2'X2' LED STATIC TROFFER.	1-5
I ⊦M	HE WILLIAMS - EMER/LED- WHT-SDT-D	LITHONIA - ELM6L-B-UVOLT- LTP-SDRT-	INTEGRAL LED	6	1100	UNV	80	-	0-10V / 10%	WHITE	EMERGENCY CEILING MOUNTED FIXTURE. FIXTURE SHALL BE PROVIDED WITH INTEGRAL EMERGENCY 90 MINUTE BATTERY PACK.	1-5
X1EM	SURELITE APCH7R	LITHONIA - LHQM LED	INTEGRAL LED	10.3	-	UNV	NA	NA	NA	то	COMBINATION EMERGENCY EGRESS /SINGLE FACE LED EXIT LIGHT FIXTURE WITH BATTERY PACK, RED LETTERS AND FIELD CONFIGURED ARROWS.	1-5
NOTES: 1. COO		ELECTIONS AND/OR SUBSTITUTIO	ONS WITH ARCHIT	ECT, OW	NER AND/OR	ENGINEER PI	RIOR TO ORE	PER.				

2. PROVIDE LIGHTING CONTROLS THAT ARE COMPATIBLE WITH FIXTURES PROVIDED. 3. COORDINATE WITH ARCHITECT, OWNER AND/OR ENGINEER FOR DIMMING REQUIREMENTS PRIOR TO INSTALLATION. 4. PROVIDE ALL COMPONENTS AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION. 5. EQUIVALENTS MUST BE SUBMITTED AND APPROVED PRIOR TO BID.

		LIGHTING CONTROL DEV	/ICE SCHEDULE					
TAG	MANUFACTURER AND MODEL SERIES	SENSOR DESCRIPTION	COVERAGE AREA (WxD OR RADIUS Ø)	VOLTAGE	MODE SETTINGS	TIME DELAY	DEVICE FINISH COLOR	SENSO NOTES
VALL SWITCH	HOCCUPANCY SENSO	DRS						
OS	WATTSTOPPER PW-301	SINGLE-RELAY PASSIVE INFRARED OCCUPANCY SENSOR WALL SWITCH WITH MANUAL OVERRIDE BUTTON.	MAJOR 30' x 35' MINOR 15' x 20'	120/277V	MANUAL ON AUTO OFF	5 MIN	WHITE	1
OSD	WATTSTOPPER PW-311	SINGLE-RELAY PASSIVE INFRARED DIMMABLE OCCUPANCY SENSOR WALL SWITCH WITH MANUAL OVERRIDE BUTTON.	MAJOR 30' x 35' MINOR 15' x 20'	120/277V	AUTO ON AT 50% AUTO OFF	5 MIN	WHITE	1
EILING MOU	INTED DAYLIGHT / O	CCUPANCY SENSORS						
OS	WATTSTOPPER LMDC-100	CEILING MOUNT ULTRASONIC DIGITAL OCCUPANCY SENSOR. 360 DEGREE COVERAGE. PLUG-AND-PLAY CONFIGURATION, (2) RJ45 PORTS, LCD DISPLAY, IR RECEIVER, CONFIGURATION BUTTONS.	ULT MAJOR 25' X 25' PIR 32' Ø	24V	-	20 MIN	WHITE	2
OWER SUPP	LIES/ROOM CONTRO	DLLERS					•	
DRC1	WATTSTOPPER LMRC-211	DIGITAL SINGLE-RELAY ON/OFF/DIMMING ROOM CONTROLLER. 0-10V DIMMING. MAXIMUM 20A TOTAL LOAD RATING. PLUG-AND-PLAY CONFIGURATION, (4) RJ45 PORTS, LED STATUS INDICATORS, CONFIGURATION BUTTONS, PLENUM RATED.	-	120/277V LOAD, 24VDC CONTROL OUTPUT	AUTO ON AT 50%, AUTO OFF	-	-	
OW VOLTAG	E SWITCHES							
LVD#	WATTSTOPPER LMDM-101	DIGITAL DIMMING WALL SWITCH.	-	24VDC	-	-	WHITE	2,3,4

GENERAL NOTES: A. SENSOR LAYOUT BASED ON WATTSTOPPER COVERAGE PATTERNS. ADJUST QUANTITIES AND LOCATIONS FOR ALTERNATE MANUFACTURERS LISTED BELOW PER MANUFACTURER

. nlight, sensor switch, cooper-greengate, crestron, hubbell building automation, and leviton are considered equivalent manufactures for submission as an APPROVED MANUFACTURER, CONTINGENT ON LISTINGS APPROPRIATE FOR THE APPLICATION.

DURING SHOP DRAWINGS, PROVIDE LIGHTING PLANS SHOWING LOCATION, MOUNTING HEIGHT, ORIENTATION AND COVERAGE AREAS FOR EACH OCCUPANCY SENSOR FOR REVIEW AND APPROVAL BY ENGINEER. ALSO INCLUDE ON PLANS OTHER CEILING MOUNTED SYSTEMS, SHOWING COORDINATION WITH CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC

PROVIDE ALL SENSORS BY THE SAME MANUFACTURER.

PROVIDE COPIES OF SENSOR AND POWER SUPPLY OPERATION INSTRUCTIONS TO OWNER.

PROVIDE WALL SWITCH AND CEILING SENSORS WITH AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO. DO NOT INSTALL LINE VOLTAGE SENSORS ON GFCI PROTECTED CIRCUITS.

FIELD-SET DEVICES TO THE ON MODE INDICATED IN TABLE, DISABLE ANY VISABLE/AUDIBLE ALERT SETTINGS, AND SET SENSITIVITIES TO MAXIMUM LEVELS. PROVIDE ALL LOW VOLTAGE WIRING BETWEEN SENSORS, DEVICES, AND POWER SUPPLIES AS REQUIRED AND PER MANUFACTURER RECOMMENDATIONS.

WHERE OCCUPANCY SENSORS USE BOTH PIR AND ULTRASONIC TECHNOLOGIES, PROGRAM OFF MODES (MAINTAIN OCCUPANCY AND RE-TRIGGER) TO TRIGGER ON A SIGNAL FROM WHERE MULTIPLE LOW VOLTAGE SWITCHES ARE CONNECTED WITHIN THE SAME SPACE, PROGRAM THE SWITCHES TO CONTROL THE LIGHTING IN THE EXACT SAME MANNER, UNO.

SENSOR NOTES: CONNECT NEUTRAL CONDUCTOR TO SENSOR.

PROVIDE CUSTOM BUTTON ENGRAVING PER ENGINEER'S DIRECTION.

PROVIDE POWER SUPPLY WITH UNSWITCHED HOT CONDUCTOR CONNECTION. COORDINATE DEVICE LOCATIONS IN FIELD. 4. NUMBER DENOTES HOW MANY SWITCHES NEEDED FOR CONTROL. (1) DIMMING SWITCH PER FIXTURE TYPE IN AREA.

ELECTRICAL GENERAL NOTES:

REFER TO E3.0 FOR ELECTRICAL GENERAL NOTES.



- ROUTE UNSWITCHED HOT TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
- 2. PROVIDE DIMMABLE LOW VOLTAGE SWITCH FOR LIGHTING CIRCUITS AS SHOWN. REFERENCE SHEET E4 FOR LIGHTING CONTROL DEVICE SCHEDULE FOR FURTHER INFORMATION.
- 3. PROVIDE NEW OCCUPANCY SENSING WALL MOUNTED LIGHT SWITCH. SWITCH SHALL CONTROL EXHAUST FAN AND LIGHT IN SPACE. REFERENCE LIGHTING CONTROL DEVICE SCHEDULE ON SHEET E3.0 AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION. 4. PROVIDE NEW DIMMABLE OCCUPANCY SENSING WALL MOUNTED LIGHT SWITCH. REFERENCE LIGHTING CONTROL DEVICE SCHEDULE ON SHEET E3.0 FOR ADDITIONAL INFORMATION.
- 5. PROVIDE NEW ROOM CONTROLLER, CONNECT TO CEILING MOUNT SENSORS AND LOW VOLTAGE SWITCHES IN ROOM PER MANUFACTURERS RECOMMENDATIONS AND AS SHOWN ON THE DRAWINGS. REFERENCE LIGHTING CONTROL DEVICE SCHEDULE ON SHEET E3.0 FOR ADDITIONAL INFORMATION.
- 6. PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR. CONNECT TO ROOM CONTROLLERS AND LOW VOLTAGE SWITCHES PER MANUFACTURERS RECOMMENDATIONS AND AS SHOWN ON DRAWINGS. REFERENCE LIGHTING CONTROL DEVICE SCHEDULE ON SHEET E3.0 FOR ADDITIONAL INFORMATION.

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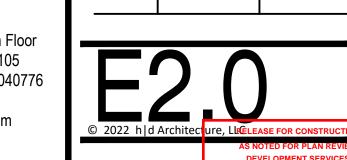
BROCK CËNTLIVRE, LICENSED ENGINEER

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08/02/2022

LINETYPES LEGEND: ----- NEW

----- EXISTING OR BY OTHERS ---- DEMOLITION

LIGHTING LEGEND

• CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4' CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4' (NIGHT LIGHT OR EMERGENCY CIRCUIT)

STRIP LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE FOR LENGTH. WALL-MOUNT SCONCE OR WALL BRACKET LIGHT

FIXTURE. • RECESSED WALL WASH CAN LIGHT FIXTURE.

RECESSED, SURFACE, OR STEM HUNG LIGHT SINGLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA

INDICATES EXIT LIGHT FACE. DOUBLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.

COMBINATION SINGLE FACE EXIT/EMERGENCY LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT

NOTE: REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

POWER LEGEND:

FINDICATES ABOVE COUNTER (TYP)

DUPLEX RECEPTACLE MOUNTED AT +18"AFF TO E CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).

DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT ← +18"AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO). DUPLEX RECEPTACLE ON STAND-BY GENERATOR

POWER, MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN ABOVE COUNTER SHALL BE +48"AFF (UNO).

FLOOR-MOUNTED DUPLEX OR FOURPLEX RECEPTACLE MOUNTED IN PVC FLOORBOX, OR POKE-THRU SPECIAL RECEPTACLE. NUMBER REFERS TO "NEMA" CONFIGURATION. MOUNT AT +18"AFF TO CENTER OF RECEPTACLE (UNO).

FOURPLEX RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48"AFF

FLUSH MOUNT COMBINATION POWER AND VOICE/DATA FLOORBOX.

SINGLE POLE WALL MOUNT TOGGLE SWITCH. MOUNT AT +48"AFF TO CENTER OF SWITCH.

WALL MOUNTED OCCUPANCY SENSOR SWITCH. MOUNT AT +48"AFF TO CENTER OF SWITCH.

\$8 WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48"AFF TO CENTER OF SWITCH.

\$8 WALL MOUNTED LOW VOLTAGE SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48"AFF TO CENTER OF SWITCH.

(S) CEILING MOUNTED OCCUPANCY SENSOR.

DRC1 ROOM CONTROLLER/POWER PACK FOR LIGHT FIXTURE CONTROL. DEVICE SHALL BE CONCEALED IN CEILING.

■ VOICE OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).

DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).

COMBINATION VOICE/DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).

FLUSH FLOOR MOUNT VOICE/DATA OUTLET MOUNTED IN PVC FLOORBOX.

DISCONNECT SWITCH, STARTER, & COMBINATION TARTER/DISCONNECT SWITCH. SIZE AS INDICATED ON

[] ELECTRICAL PANEL BOARD, FLUSH OR SURFACE MOUNT

J JUNCTION BOX

NOTE: LINE THROUGH DEVICE INDICATES TO BE MOUNTED ABOVE COUNTERTOP OR CABINET. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS IF NOT INDICATED ON POWER PLAN.

REFER TO LIGHTING CONTROL DEVICE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

WIRING LEGEND:

HOMERUN TO PANELBOARD WITH NUMBER AND SIZE OF CONDUCTORS INDICATED ON PLANS.

— C GROUNDED CONDUCTOR. CONDUIT OR CIRCUIT BREAK/CONTINUATION.

CONDUIT WITH ENDCAP FOR FUTURE USE. GROUNDING SOURCE.

FIRE ALARM LEGEND:

RETURN DUCT/PLENUM MOUNT SMOKE DETECTOR

ABBREVIATIONS LEGEND:

AFF ABOVE FINISHED FLOOR

ED EXISTING TO BE DEMOLISHED EM EMERGENCY

ER EXISTING TO BE RELOCATED ETR EXISTING TO REMAIN

GFCI GROUND FAULT CURRENT INTERRUPTER NIGHT LIGHT TR TAMPER RESISTANT

UNO UNLESS NOTED OTHERWISE WP WEATHER PROTECTED COVER / GFCI

ELECTRICAL GENERAL DEMOLITION NOTES:

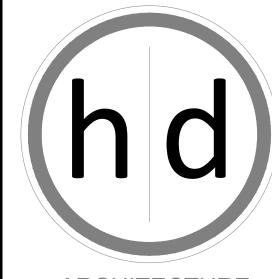
- REFERENCE ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION WORK AND PHASING. NOTIFY ARCHITECT, ENGINEER, AND/OR OWNER, AS APPLICABLE, OF ANY CONFLICTS OR DISCREPANCIES BETWEEN DRAWINGS AND JOBSITE CONDITIONS PRIOR TO SUBMITTING BID.
- COORDINATE DEMOLITION AND REMOVAL OF EXISTING EQUIPMENT AND LIGHTING SYSTEMS WITH ARCHITECTURAL PHASING DRAWINGS AND OWNER TO ALLOW NECESSARY SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION.
- UNLESS NOTED OTHERWISE, DISPOSE OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHOWN TO BE REMOVED. COORDINATE WITH THE OWNER THE ITEMS TO BE SALVAGED, AND THE LOCATION FOR STORAGE. AVOID DAMAGING SALVAGED ITEMS DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- WHERE ALTERATION OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, OR WIRING DEVICES AFFECTS EXISTING SURFACES/FINISHES: REPAIR/PAINT AFFECTED SURFACE TO MATCH EXISTING ADJACENT SURFACE IN ACCORDANCE WITH OWNER REQUIREMENTS. MAINTAIN FIRE RATING OF ALL FLOORS, WALLS, AND CEILINGS THAT ARE
- WHERE DEMOLITION WORK INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE: PROVIDE NECESSARY DEVICES AND RELATED CIRCUITRY TO MAINTAIN ELECTRICAL CONTINUITY IN ACCORDANCE WITH OWNER REQUIREMENTS. RE-CIRCUIT REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND WIRING DEVICES PREVIOUSLY POWERED FROM DEMOLISHED EQUIPMENT TO NEW OR TEMPORARY EQUIPMENT AS NEEDED.
- COORDINATE DISCONNECTION OF POWER TO EQUIPMENT BEING DEMOLISHED / REMOVED / RELOCATED WITH OTHER TRADES PRIOR TO START OF WORK. REMOVE ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, WIRING DEVICES, AND RELATED CIRCUITRY NOT BEING REUSED IN ALL ACCESSIBLE AREAS INCLUDING FLOORS. WALLS, AND CEILINGS THAT ARE TO BE REMOVED.
- ELECTRICAL EQUIPMENT, RACEWAYS, AND RELATED CIRCUITRY ABANDONED IN PLACE SHALL BE PERMANENTLY DISCONNECTED FROM ALL POWER SOURCES, INSULATED FROM CONTACT WITH OTHER LIVE ELECTRICAL WIRING/DEVICES, AND IDENTIFIED AT TERMINATIONS AS NO LONGER BEING IN SERVICE. CABLES/WIRING NOT BEING REUSED SHALL BE REMOVED UNLESS IDENTIFIED FOR FUTURE USE. CARE SHOULD BE TAKEN DURING THE REMOVAL PROCESS TO PROTECT THE EXISTING REUSED CABLES/WIRING FROM DAMAGE.

ELECTRICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). PRIOR TO BID, CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- ELECTRICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL CODE PLANS
- COORDINATE ELECTRICAL WORK WITH ALL OTHER PROJECT TRADES (E.G. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ETC.).

FOR SPECIFIC CODE REFERENCES.

- COORDINATE EXACT LOCATIONS OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWING AND OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRE TO PROPERLY INSTALL ALL SYSTEMS.
- INSTALL PULL STRING IN ALL EMPTY CONDUIT/RACEWAY. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- COLOR FOR RECEPTACLES, SWITCHES, NETWORK DEVICES AND COVER PLATES SHALL MATCH. COLOR SHALL MATCH AND BE SELECTED AS BRIGHT WHITE UNLESS NOTED OTHERWISE. CONFIRM EXACT COLOR WITH ARCHITECT PRIOR TO ORDER.
- ELECTRICAL CONTRACTOR SHALL INSPECT ALL ELECTRICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) AS REQUIRED BY THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC). ALL INSTALLATIONS SHALL BE PER NEC REQUIREMENTS.
- AT CONTRACTOR'S OPTION, MC CABLE CAN BE USED FOR CIRCUITING CONNECTIONS TO RECEPTACLES AND LIGHTING. "HOME RUNS" SHALL BE ROUTED IN CONDUIT. ALL INSTALLATIONS SHALL BE PER NEC REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL ROUGH—IN LOCATIONS AND QUANTITIES FOR GENERAL USE POWER AND DATA WITH OWNER AND/OR ARCHITECT PRIOR TO INSTALLATION.
- CIRCUITS FOR GENERAL USE POWER SHALL HAVE A MAXIMUM OF 6 RECEPTACLES ON A CIRCUIT (A SINGLE 4-PLEX RECEPTACLE COUNTS FOR 2 OF THE ALLOWED 6 RECEPTACLES).
- ALL WIRE SIZES LISTED ON PLANS ASSUME COPPER CONDUCTORS ARE USED (UNLESS NOTED OTHERWISE).
- CONTRACTOR SHALL LABEL ALL RECEPTACLES, BOXES, PANELBOARDS, ETC. WITH PANEL, CIRCUIT NUMBER, ETC. PER INDUSTRY STANDARDS. COORDINATE WITH OWNER FOR FINAL PANEL AND EQUIPMENT DESIGNATIONS.
- ALL DEVICES (WHERE APPLICABLE) SHALL BE VERTICALLY IN LINE.



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