# INDEPENDENT HOTEL

HIGHWAY 140, OSCEOLA, AR

## ARCHITECT:


**DESIGN GROUP, LLC.**
Architecture . Planning . Interior Design

1255 Lynnfield Road, Suite 259
Memphis, Tennessee 38139
Telephone: 901.603-8765
E-Mail: designgroup50@yahoo.com


## CONSULTANTS:

CIVIL: MCALISTER ENGINEERING, PLLC
(CIVIL ENGINEERING AND LAND SURVEYING)
PH-870-931-1420

STRUCTURAL: BROUGH & STEPHENS, INC.
5050 POPLAR AVE, STE 1020
MEMPHIS, TN 38157 PH:
901-684-1112 FX:
901-684-1114

MECHANICAL: BUILDING SYSTEM GROUP
(ENGINEERS PLANNERS CONSULTANTS)
PH-901-219-6359

PLUMBING: BUILDING SYSTEM GROUP
(ENGINEERS PLANNERS CONSULTANTS)
PH-901-219-6359

ELECTRICAL: BUILDING SYSTEM GROUP
(ENGINEERS PLANNERS CONSULTANTS)
PH-901-219-6359

## ARCHITECT'S PROJECT #2345

## PROJECT SCOPE

3 STORY WOOD FRAME CONSTRUCTION GROUNDUP HOTEL

FLOOR AREA:

FIRST FLOOR =10174.3218 SQ.FT.
SECOND FLOOR = 10185.8459 SQ.FT.
THIRD FLOOR = 10185.8459 SQ.FT.

TOTAL SQ.FT.= 30,546.0136 SQ.FT.

## CONSTRUCTION SET

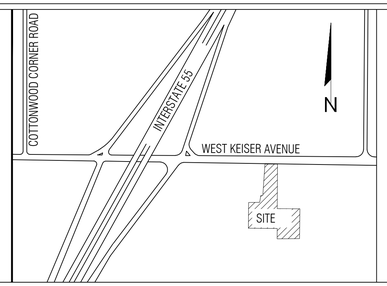
STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 8852
NEERAJ KUMAR

MARCH 01, 2024

## CODE ANALYSIS AND APPLICABLE CODES

- 2020 EDITION OF THE NATIONAL ELECTRICAL CODE, AS AMENDED
- 2021 EDITION OF THE INTERNATIONAL BUILDING CODE
- 2021 EDITION OF THE INTERNATIONAL RESIDENTIAL CODE
- 2021 EDITION OF THE INTERNATIONAL FIRE CODE
- 2021 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 EDITION OF THE INTERNATIONAL MECHANICAL CODE
- 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE
- 2018 EDITION OF THE INTERNATIONAL FUEL AND GAS CODE
- 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
- 2021 EDITION OF THE INTERNATIONAL SWIMMING POOL AND SPA CODE
- 2021 EDITION OF THE INTERNATIONAL EXISTING BUILDING CODE
- ICC A117.1-2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

## VICINITY MAP

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LS002 LIFE SAFETY PLAN- SECOND FLOORS
LS003 LIFE SAFETY PLAN- THIRD FLOORS
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G102 FIRE RATED UL DETAILS
G103 FIRE RATED UL DETAILS
G104 FIRE RATED UL DETAILS
G105 FIRE RATED UL DETAILS
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COVER SHEET

**CS001**

1B LIFE SAFETY - FIRST FLOOR

SCALE 1/8"=1'-0"

## LEGEND:

TRAVEL DISTANCE FROM SPECIFIED POINT TO NEAREST EXIT

COMMON PATH OF TRAVEL DISTANCE

END OF COMMON PATH OF TRAVEL

225' — CPT = 75

26 — NUMBER OF PERSONS

OCCUPANCY CLASSIFICATION

FLOOR AREA (SQUARE FEET) G: GROSS N: NET

NUMBER OF OCCUPANTS C: CALCULATED A: ACTUAL

| B | |
|---|---|
| AREA | 126 (N) |
| OCC | 1 (C) |

LOAD - 100 GROSS — OCCUPANT LOAD: 2018 IBC - SECTION 1004

| EXIT | |
|---|---|
| WID | 32" |
| CAP | 160 |
| OCC | 75 |

EGRESS COMPONENT NAME

EGRESS COMPONENT WIDTH

MAX. ALLOWABLE CAPACITY

ACTUAL OCCUPANT LOAD

1A LEGEND

SCALE 1/8"=1'-0"

F.D. FLOOR DRAIN

M4 WALL TYPE TAG: REFER TO DWG G005

ACCESSIBLE ROOM

HEARING IMPAIRED

## WALL LEGEND

1 1 HOUR WALL

2 2 HOUR WALL

NOTE:

1. ALL WALLS WITHOUT TAGS ARE NON- RATED
2. ALL CORRIDOR WALLS ARE W2 UNLESS OTHERWISE NOTED.
3. ALL DEMISING WALLS ARE W3 UNLESS OTHERWISE NOTED.

2A WALL LEGEND

NTS

NORTH


**DESIGN GROUP, LLC.**

1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765

E-Mail: nkumar@designgroupmemphis.com


OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 8882 03/01/2024 NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

LIFE SAFETY PLAN - FIRST FLOOR

DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

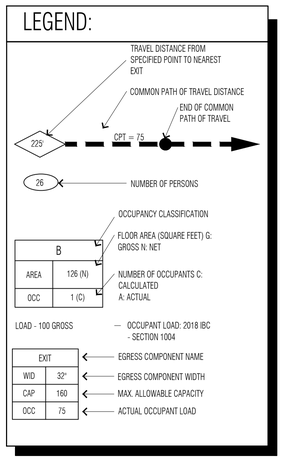
DRAWING NUMBER:

**LS001**

1B LIFE SAFETY - SECOND FLOOR

SCALE 1/8"=1'-0"

## LEGEND:




1A LEGEND

SCALE 1/8"=1'-0"

F.D. FLOOR DRAIN

M4 WALL TYPE TAG: REFER TO DWG G005

ACCESSIBLE ROOM

HEARING IMPAIRED

### WALL LEGEND

1 1 HOUR WALL

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NOTE:

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2A WALL LEGEND

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SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 8882 03/01/2024 NEERAJ KUMAR

MARCH 01, 2024

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| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

LIFE SAFETY PLAN - SECOND FLOORS

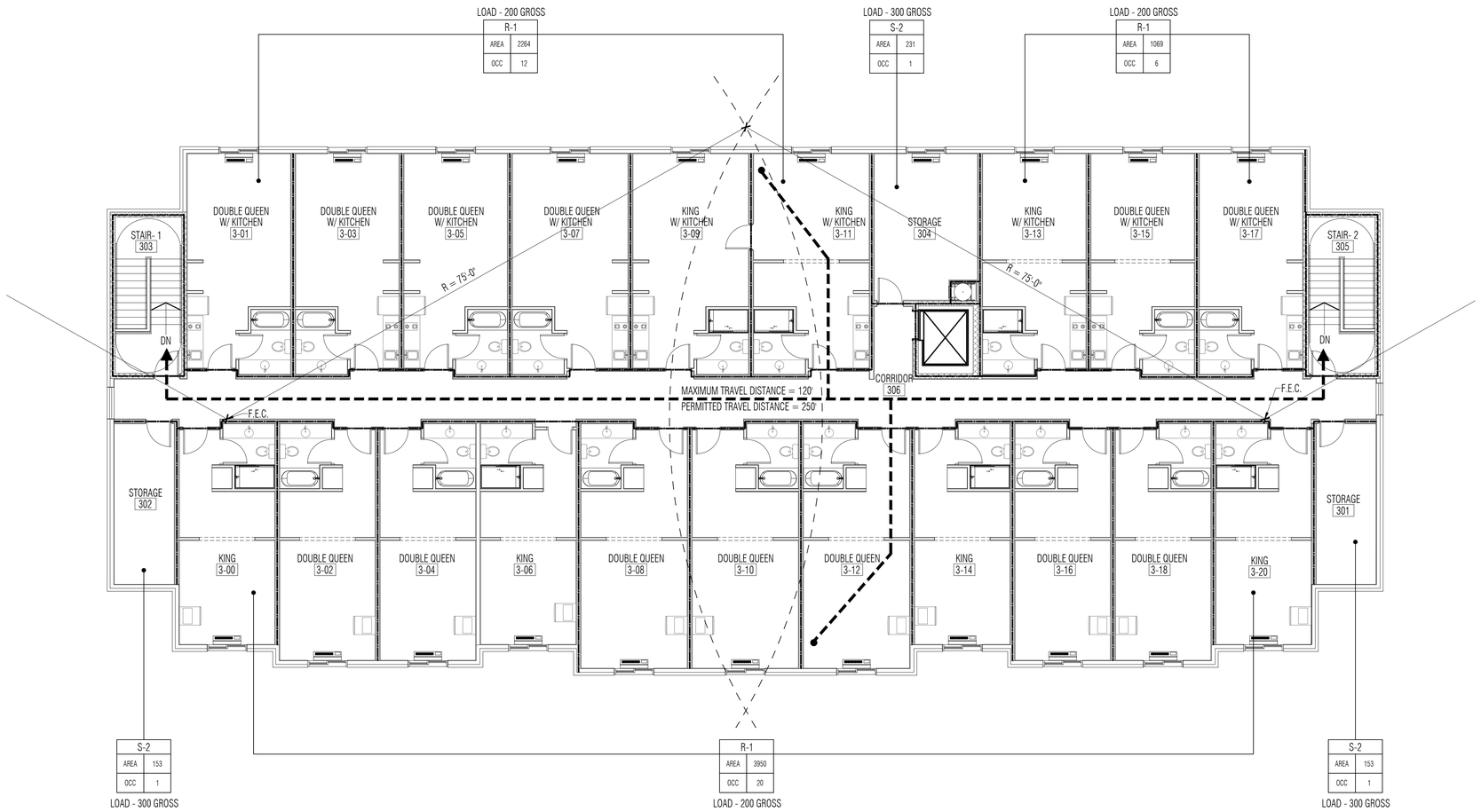
DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

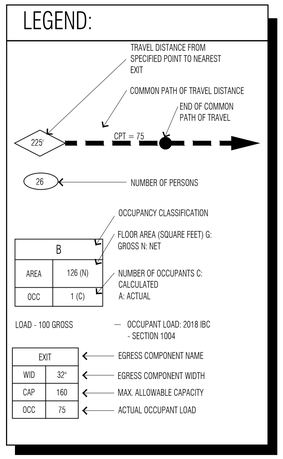
**LS002**




1B LIFE SAFETY - THIRD FLOOR

SCALE 1/8"=1'-0"

## LEGEND:




1A LEGEND

SCALE 1/8"=1'-0"

F.D. FLOOR DRAIN

M4 WALL TYPE TAG: REFER TO DWG G005

ACCESSIBLE ROOM

HEARING IMPAIRED

### WALL LEGEND

1 1 HOUR WALL

2 2 HOUR WALL

NOTE:

1. ALL WALLS WITHOUT TAGS ARE NON- RATED
2. ALL CORRIDOR WALLS ARE W2 UNLESS OTHERWISE NOTED.
3. ALL DEMISING WALLS ARE W3 UNLESS OTHERWISE NOTED.

2A WALL LEGEND

NTS

NORTH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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 6852 03/01/2024 NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

LIFE SAFETY PLAN - THIRD FLOORS

DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

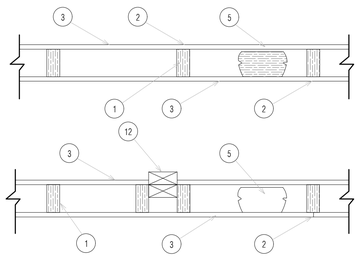
**LS003**

Design No. U305

BXUV.U305
Fire-resistance Ratings - ANSI/UL 263

Design/ System/Construction/Assembly Usage
Disclaimer
• Authorities Having Jurisdiction should be consulted in all
cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
• Authorities Having Jurisdiction should be consulted
before construction.
• Fire resistance assemblies and products are developed by
the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
• When field issues arise, it is recommended the first
contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
Only products which bear UL' s Mark are considered
Certified.
BXUV - Fire Resistance Ratings - ANSI/UL 263
BXUV7 - Fire Resistance Ratings - CAN/ULC-5101
Certified for Canada
See General Information for Fire- resistance
Ratings - ANSI/UL 263
See General Information for Fire Resistance Ratings -
CAN/ULC-S 101 Certified for Canada
Design No. U305
January 27, 2016
Bearing Wall Rating -- 1Hr
Finish Rating -- See Items 3, 3A, 3D, 3E, 3F,
3G, 3H, 3J and 3L.
STC Rating - 56 (See Item 9)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used -- See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.




1. Wood Studs -- Nom 2 by 4 in. spaced 16 in. OC max, effectively fire stopped.

2. Joints and Nail-Heads -- Joints covered with joint com pound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nail heads exposed or covered with joint com pound.

3. Gypsum Board* -- 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, O. 0915 in. shank diam and 1.5/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Item 6, 6A or 6B, Steel Framing Members*.

When Item 6 ,6B, or 6C Steel Framing Members*, are used, gypsum panels attached to furring channels with lin. long Type S bugle- head steel screws spaced 1.2 in. OC.

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle- head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle- head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item3

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with lin. long, self-drilling, self-tapping Type S or S- 12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

ACADIA DRYWALL SUPPLIES LTD -- Type X (finish rating
22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO -- Types AGX- I(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-
II(finish rating 26 min), Type LightRoc (finish rating 22 min) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO -- Type DBX- 1 (finish rating 24 min) .

CERTAINTEED GYPSUM INC -- Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C, Type X or Type X-1 (finish rating 26 min) ; Type EGRG or GlasRoc (finish rating 23 min)

CGC INC -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC- AR (finish rating 24 min), Type IP-XI (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min).

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC6A (finish rating 34 min), Type LGFC2A,
Type LGFC-C/A, Type LGFC- WD, Type LGLLX (finish rating 21 min) .

GEORGSA-PACIFIC GYPSUM L L C -- Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 inin), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type- LWX (finish rating 22 min), Soffit-Type LWX

(finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min).

NATIONAL GYPSUbt CO -- Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW -2 (finish rating 24 inin), Type FSW- 3 (finish rating 20 min), Type FSW- 5 (finish rating 22min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-SW (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG -SWS, PGS- WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 or Type PG-C.

PANEL REY S A -- Type GREX, PRX; Types RHX, MDX, ETX (finish rating 22 min)

S1AM GYPSUM INDUSTRY (SARABURI) CO LTD -- Type EX- 1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL -- Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-XI (finish rating 24min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SIX (finish rating 24 in), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min).

USG MEXICO S A DE C V -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-XI (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24min), Type ULX (finish rating 22 min).

3A. Gypsum Board* -- (As an alternate to Item 3) -- 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to fram ing with 1- 1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUF4 CO -- Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), Type AG-C (finish
rating 25 min.).

CERTAINTEED GYPSUM INC -- Type C, Type X or Type X- I(finish rating 26 min) .

CGC INC -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC- AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min).

UNITED STATES GYPSUM CO -- Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-XI (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min).

USG BORAL ZAWAWI DRYWALL L L C SFZ --Types C, SCX

USG MEXICO S A DE C V -- Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-XI (finish rating 24 min), Type IP-X2 (finish rating 24 in), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish
rating 24 min), Type IPC-AR (finish rating 24 min).

3B. Gypsum Board* --
(As an alternate to Item 3) -- Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

CGC INC -- Types AR, IP-AR.
UNITED STATES GYPSUM CO -- Types AR, IP-AR.
USG MEXICO S A DE C V -- Types AR, IP-AR.

3C. Gypsum Board* -- (As an alternate to Items 3, 3A and 3B) -- 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1- 1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

CGC INC -- Type SHX.
UNITED STATES GYPSUM CO -- Type SH X.
USG MEXICO S A DE C V -- Type SHX.

3D. Gypsum Board* -- (As an alternate to Items 3, 3A, 3B, or 3C -- not shown) For Direct Application to Studs Only- 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. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0. 125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0. 125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0. 125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ- L- 201f, Grade "C".

RAY- BAR ENGINEERING CORP -- Type RB- LBG (finish rating 24 min) .

3E. Gypsum Board* -- (As an alternate to Items 3, 3A, 3B, 3C, and 3D) -- 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically.
Gypsum panels fastened to framing with 1- 1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws land 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, O. 0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

GEORG1A-PACIFIC GYPSUM L L C -- Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min) .

3F. Gypsum Board* -- (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) - 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, O. 0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed I inch and 3 inch from horizontal joints and 7 inch OC thereafter.
CGC INC -- Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO -- Type USGX (finish rating 22 min.)
USG MEXICO S A DE C V -- Type USGX (finish rating 22 min.)

3G. Gypsum Board* -- (As an alternate to Items 3 through 3F) - 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, O.0915 in. shank diam and 15/64 in. diam heads.

GEORG1A-PACIFIC GYPSUM L L C -- Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min) .

3H . Gypsum Board* -- (As an alternate to Items 3) - Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

NATIONAL GYPSUt4 CO -- SoundBreak XP Type X Gypsum Board

31. Gypsum Board * -- (As an alternate to Items 3 through 3H, not shown) -- Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in, shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nai lheads covered with two layers of joint compound.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type QuietRock ES (finish rating 20 min).

3J . Gypsum Board* -- (As an alternate to Items 3) - Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
CERTAINTEED GYPSUM INC -- Type SilentFX

3K. Gypsum Board* -- (As an alternate to Item 3) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to fram ing with 1- 1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

NATIONAL GYPSUt4 CO -- Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW -2 (finish rating 24 in), Type FSW- 3 (finish rating 20 min), Type FSW- 5 (finish rating 22min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min) .

3L. Gypsum Board* -- (As an alternate to Item 3) For Direct Application to Studs Only- 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. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0. 140 in. placed on the face of studs and attached to the stud with two 1 in. long Type 5-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/ 16 in. diam by max 0. 140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99. 5% meeting the Federal specification QQ- L-201f, Grades "B, C or D".

MAYCO INDUSTRIES INC --"X- Ray Shielded Gypsum"

3M. Gypsum Board* -- (As an alternate to Items 3) For Direct Application to Studs Only- For use as the base layer or as the face layer. 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 1stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer.

When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wall board and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0. 4 in. placed on the face of studs and attached to the stud with construction adhesive and two lin. long Type S- 12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0. 085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99. 9% meeting the Federal specification QQ- L- 201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2- 1/2 in. Type S- 12 bugle head steel screws spaced as described in Item 4.RADIATION PROTECTION PRODUCTS INC -- Type RPP - Lead Lined Drywall

3N. Gypsum Board* -- (As an alternate to Item 3) -- 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3.
CERTAINTEED GYPSUM INC -- 5/8" Easi-Lite Type X (finish rating 24 min)

30. Wall and Partition Facings and Accessories* -- (As an alternate to Item 3, not shown)--Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nail heads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type QuietRock 527 (finish rating 24 min) .

3P. Gypsum Board* -- (As an alternate to Item 3, not shown) - Two layers nom . 5/ 16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1- 1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nai ls spaced 8 in. OC starting with a 4" stagger.

NATIONAL GYPSUI4 CO -- SoundBreak XP Type X Gypsum Board

3Q. Gypsum Board* -- (As an alternate to Item 3) -- 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

4. Steel Corner Fasteners -- (Optional) -- For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* -- (Optional - Required when Item 6A is used (RC-1)) Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.
CERTAINTEED CORP JOHNS MANVSLLE INTERNATIONAL INC KNAUF INSULATION LLC
MANSON INSULATION INC
OWENS CORN1NG HT INC, DIV OF OWENS CORNING--Corning Fiberglas Corp.
ROCK WOOL MANUFACTURING CO -- Delta Board.
ROXUL INC -- Acoustical Fire Batts

THERMAFIBER INC -- Type SAFB.
SA. Fiber, Sprayed* -- (Not shown - Not for use with Item 6) As an alternate to Batts and Blankets (Item 5) -- 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/ftse in accordance with the application instructions supplied with the product.

When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS765LD or INS770LD.
U S GREENFIBER L L C -- INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

SB. Fiber, Sprayed* -- (Not shown - Not for use with Item 6) As an alternate to Batts and Blankets (Item 5) and Item SA - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4. 3 pounds per cubic ft.
NU-WOOL CO INC -- Cellulose Insulation

5C. Batts and Blankets* -- Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction- fitted to fill interior of wall.
THERMAFIBER INC -- Type SAFB

SD. Glass Fiber Insulation -- (As an alternate to Item 5C) -- 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified com panies.

5E. Batts and Blankets* -- (Required for use with Wall and Partition Facings and Accessories, Item 3D) -- Glass fiber insulation, nom 3- 1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

SF. Fiber, Sprayed*-(Optional, Not Shown - Not for use with Item 6, 6A or 6B). As an alternate to Batts and

Blankets (Item 5) and Item SA - Spray applied granulated mineral fiber material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).

SG. Fiber, Sprayed* -- (Optional, Not Shown - Not for use with Items6, 6A or 6B) . As an alternate to Batts and Blankets (Item 5) and Item SA - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4. 30 lbs/ftse
INTERNATIONAL CELLULOSE CORP -- Celbar- RL

6. 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. 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 #6 framing 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 furring channels as described in Item 3.
b. Steel Framing Members* -- Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC- V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC- 1 and RSIC-V clips for use with 2-9/ 16 in. wide furring channels. RSIC- 1 (2.75) and RSIC-V (2. 75) clips for use with 2-23/32 in. wide furring channels.

b. Steel Framing Members* -- Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C --Types RSIC- 1,RSIC-V, RSIC- 1 (2.75), RSIC-V (2.75).
6A. Steel Framing Members(Optional,Not Shown)*-Furring channels and Steel Framing Members on one side of studs 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 are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item S. Two layers of gypsum board attached to furring channels as described in Item 3.

Steel Framing Members* -- used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2- I/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC -- Type Isomax.
6B. 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. 2-3/8 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 #6 framing 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 furring channels as described in Item 3.

b. Steel Framing Members*--Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC -- Type Genie Clip
6C. Steel Framing Members -- (Optional, Not Shown) * -- Furring channels and resilient sound isolation clip 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 secured together with four self-tapping No. 8x1/2 Self Drilling screws(2 per side 1. in. and 4 in. from overlap edge) .Gypsum board attached to furring channels as described in Item

3. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

a. Steel Framing Members* -- Resilient sound isolation clip used to attach furring channels (Item 6Ca) to studs. Clips spaced 16 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS -- RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7. Furring Channel -- Optional - Not Shown - For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items SC or 5D is required.

8. baulking and Sealants -- (not shown, optional) A bead of acoustical sealant applied around the partition perimeter for sound control.

9. STC Rating -- The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1through 6, except:
A. Item 2, above - Nail heads Shall be covered with joint com pound.
B. Item 2, above - Joints As described, shall be covered with fiber tape and joint com pound.
C. Item 5, above - Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6- 1/4 in. thick and 15-1/4 in. wide.
D. Item 6, above - Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.
E. Item 8, above - Caulking and Sealants (not shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.
F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B ) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

1.0. 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 manufacturer's recommendations. When the QR- 500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be 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.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type QuietRock QR- 500 and QR-510

11. Cementitious Backer Units* -- (Optional Item Not Shown - For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/ 16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.
NATIONAL GYPSUt4 CO -- Type DuraBacker, Perma Base, Dura Backer Pl us, or PermaBase Plus

12. Non-Bearing Wall Partition Intersection -- (Optional) --Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non- bearing wall partition intersection per stud cavity. Non- bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. Mesh Netting -- (Not shown) - Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. 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 framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be 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.

HOMASOTE CO -- Homasote Type 440-32

14A. Mineral and Fiber Board* -- (Optional, Not shown) -- For use with Items 14B-14E) -- 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 framing with minimum 1-3/8 in. long ring shanked nails or 1- 1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

HOMASOTE CO -- Homasote Type 440-32
14B. Glass Fiber Insulation -- (For use with Item14A)-3- 1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

14C. Batts and Blankets* -- (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC -- Type SAFB

I4D. Adhesive -- (For use with Item14A) -Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A) .

I4E. Gypsum Board* -- (For use with Item14A) - 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1- 1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A).Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint com pound. Screw heads covered with joint com pound. Finish Rating 30 Min.


**DESIGN GROUP, LLC.**

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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
NO. 6852
03/01/2024
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

FIRE RATING UL DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

**G101**

AMERICAN GYPSUM CO -- Type AG-C
CERTAINTEED GYPSUM INC--Type FRPC, Type C
CGC INC -- Types C, IP-X2, IPC-AR
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC-C/A
GEORG1A-PACIFIC GYPSUM L L C -- Types 5, DAPC,TG -C
NATIONAL GYPSUMS CO -- Types FSK-C, FSW-C
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type PG-C.
PANEL REY S A -- Type PRC
THAI GYPSUM PRODUCTS PCL -- Type C
UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR
USG BORAL ZAWAWI DRYWALL L L C SFZ -- Type C
USG MEXICO S A DE C V --Types C, IP-X2, IPC-AR

* indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification(such as Canada), respectively.

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END OF U305

Design No. U311

BXUV.U311

Fire-resistance Ratings - ANSI/UL 263

Design/ System/Construction/Assembly Usage Disclaimer

• Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.

• Authorities Having Jurisdiction should be consulted before construction.

• Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
• When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.

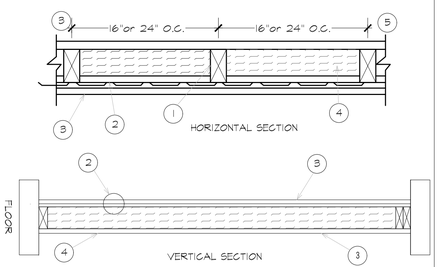
• Only products which bear UL' s Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263
BXUV7 - Fire Resistance Ratings - CAN/ULC-5101
Certified for Canada
See General Information for Fire- resistance Ratings - ANSI/UL 263
See General Information for Fire Resistance Ratings - CAN/ULC-S 101 Certified for Canada

October 29, 2015 Bearing Wall Rating -- 1HR.
Finish Rating -- 23 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used -- See Guide BXUV or BXUV7

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada}, respectively.




1. Wood Studs -- Nom 2 by 4 in., spaced 16 or 24. OC. Effectively cross braced.

2. Resilient Channel --25 MSG galv steel.Resilient channels spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long Type W coarse thread gypsum panel steel screws.

2A. Steel Framing Members (Optional, Not Shown}* -- As an alternate to Item 2, furring channels and resilient sound isolation clip 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 #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

a. Steel Framing Members* -- Resilient sound isolation clip used to attach furring channels (Item a) to studs (Item I). Clips spaced 48 in. OC. and secured to studs with No. 8 x 2-1/2 in. coarse drywall 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 in. wide furring channels.

PAC INTERNATIONAL L L C -- Types RSIC-1, RSIC- 1 (2. 75).

2B. Steel Framing Members* -- Furring channels and Steel Framing Members as described below:

a. Furring Channels -- Formed of No.25 MSG galv steel. 2-3/8 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 #6 framing 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 furring channels as described in Item 3.

a. Steel Framing Members*--Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1- 1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC -- Type Genie Clip

2C. Steel Framing Members -- (Optional, Not Shown) *-- Furring channels and resilient sound isolation clip as described below:
a. Furring Channel-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 secured together with four self-tapping No. 8x 1/2 Self Drilling screws (2 per side lin. and 4 in. from overlap edge) .Gypsum board attached to furring channels as described in Item 4.Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips

--Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

b. Steel Framing Members* -- Resilient sound isolation clip used to attach furring channels (Item 2Ca) to studs. Clips spaced 16 or 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS -- RESTLMOUNT Sound Isolation Clips -- Type A237R

3. Gypsum Board* -- 5/8 in. thick, 4 ft wide. Screw attached on one side of wall to furring channels with 1 in. long, self-drilling, self-tapping steel screws spaced 12 in. OC, vertical joints located midway between studs and back blocked with furring channels, attached with lin. long, self-drilling, self-tapping screws, spacedl2 in. OC, along each edge. Gypsum board on opposite side of wall attached directly to studs with 1- 1/4 in. long Type W coarse thread gypsum panel steel screws spaced 12 in. OC. Vertical joints shall be located over studs on this side of the wall.

AMERICAN GYPSUM CO -- Types AG-C.

CERTAINTEED GYPSUM INC -- Type FRPC, Type C.
CGC INC -- Types C, IP-X2, IPC-AR.
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC-C/A.
GEORGSA-PACIFIC GYPSUM L L C --Types 5, DAPC, TG -C.
NATIONAL GYPSUM CO--Types -eXP-C, FSK-C,FSW-C, FSW-G.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type C or PG-C.
THAI GYPSUM PRODUCTS PCL -- Type C.
UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR.
USG BORAL ZAWAWI DRYWALL L L C SFZ -- Type C
USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR.

4. Batts and Blankets* -- 3-1/2 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4-in. face of the studs with staples placed 24 in. OC.

JOHNS MANV1LLE INTERNATIONAL INC
ROCK WOOL MANUFACTURING CO -- Delta Board.
ROXUL INC -- Acoustical Fire Batts
THERMAFIBER INC -- Type SAFB.

4A. Glass Fiber Insulation--(As an alternate to Item 4) -- 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
4B. Fiber, Sprayed* -- As an alternate to Batts and Blankets (Item 4) -- 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/ftse Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3. 5 lb/ftse in accordance with the application instructions supplied with the product.

U S GREEN FIBER L L C -- INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD and INS770LD are to be used for dry application only.

4C. Fiber, Sprayed * -- As an alternate to Item 4, 4A, and 4B -- 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. Nominal dry density of 4.58 lb/ftse NU-WOOL CO INC -- Cellulose Insulation

4D. Fiber, Sprayed* -- As an alternate to Batts and Blankets (Item 4) -- 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 minimum dry density shall be 4.30 lbs/ftse
INTERNATIONAL CELLULOSE CORP -- Celbar- RL

5.Joints and Screw heads -- Wallboard joints covered with paper tape and joint compound. Screw heads covered
with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

6.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 manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be 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.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type QuietRock QR- 500 and QR-510

7.Mineral and Fiber Board -- (Optional, Not shown) -- 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on the side of the wood framing without the resilient channels, in between the wood framing and the UL Classified gypsum board (Item 3). Fiber boards installed with 1- 1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed horizontally or vertically and fastened through the fiber boards to wood fram ing with 2 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Gypsum board joints staggered from fiber board joints. Fiber boards not evaluated or intended as a substitute for the required layer of UL Classified Gypsum Board.
BLUE RIDGE F1BERBOARD INC -- SoundStop

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
a Last Updated on 2015-10-29 © 2016 UL LLC

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END OF U311

Design No. U356

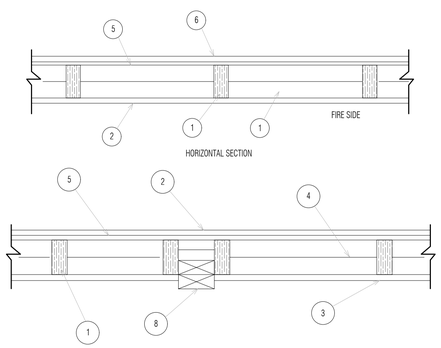
BXUV.U356
Fire-resistance Ratings - ANSI/UL 263
Design/System/Construction/Assembly Usage Disclaimer
• Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
• Authorities Having Jurisdiction should be consulted before construction.
Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field. When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
• Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263
BXUV7 - Fire Resistance Ratings - CAN/ULC-5101 Certified for Canada
See General Information for Fire- resistance Ratings- ANSI/UL 263
See Genera I Information for Fire Resistance Ratings - CAN/ULC-S 101 Certified for Canada
Design No. U356

April 27, 2016
(Exposed to Fire on Interior Face Only)
Bearing Wall Rating -- 1Hr
Finish Rating -- 23 Min or 25 Min (See Item 2C)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method. For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used -- See Guide BXUV or BXUV7

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.




2H, Gypsum Board* -- (As an alternate to Item 2)--5/8 in. thick gypsum panels, with beveled, square, or tapered
edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

2I. Gypsum Board* -- (As an alternate to Item 2) -- 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO -- Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), Type AG-C (finish rating 25 min.)
3. Joints and Fastener Heads -- (Not Shown) -- Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.

4. Batts and Blankets* -- Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).

See Batts and Blankets* (BKNV) Category in the Building Materials Directory and Batts and Blankets* (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.

4A. Fiber, Sprayed* -- As an alternate to Batts and Blankets (Item 4) -- 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.

U S GREENFIBER L L C -- INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

4B. Fiber, Sprayed* -- As an alternate to Item 4 and 4A -- 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. Nominal dry density of 4.58 lb/ft 3.NU-WOOL CO INC -- Cellulose Insulation

4C. Fiber, Sprayed* -- As an alternate to Batts and Blankets (Item 4) - 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 minimum dry density shall be 4.30 lbs/ft3.

INTERNATIONAL CELLULOSE CORP -- Celbar-RL
5. Wood Structural Panel Sheathing -- Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing" . Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A. Mineral and Fiber Boards* -- As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

6. Exterior Facings -- Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:

A. Vinyl Siding -- Molded Plastic* -- Contoured rigid vinyl siding having a flame spread value of 20 or less. See Molded Plastic (BTAT) category in the Building Materials Directory for names of manufacturers.
B. Particle Board Siding -- Hardboard exterior sidings including patterned panel or lap siding.

C. Wood Structural Panel or Lap Siding -- APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

D. Cementitious Stucco -- Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. Brick Veneer -- Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie: ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.

F. Exterior Insulation and Finish System (EIFS) -- Nom 1 in. Foamed Plastic* insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See Foamed Plastic (BRYX and CCVW) categories for names of Classified companies.

G. Siding -- Aluminum or steel siding attached over sheathing to studs.

H. Fiber-Cement Siding -- Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

I. Wall and Partition Facings and Accessories* -- Stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier applied to sheathing, installed in accordance with the manufacturers installation instructions, and meeting the requirements of local code agencies.

ELDORADO STONE OPERATIONS L L C -- Type Eldorado Stone

6A. Building Units* -- As an alternate to Exterior Facing Item 6 -- , Insulated steel panels, 12 through 42 in. wide. Attached over sheathing through retainer clips to studs or support steel with No. 14 hex head self-tapping screws located at each joint in the concealed lip of the units and spaced in accordance with the structural design requirements.

KINGSPAN INSULATED PANELS INC -- Types 200, 300, 400, 900, or KS series, 2 through 6 in. thickness; CWP-V, H, 2 through 3 in. nominal thickness or Design wall 2000 or Design wall 4000, 2 and 3 in. nominal thickness.

7. 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. 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 #6 framing 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 furring channels as described in Item 2.

b. Steel Framing Members* -- Used to attach furring channels (Item 7A) 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 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 in. wide furring channels.

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

7A. 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 are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

Two layers of gypsum board attached to furring channels as described in Item 2.

b. Steel Framing Members* -- Used to attach furring channels (Item 7A) 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 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 in. wide furring channels.

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

7A. 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 are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two layers of gypsum board attached to furring channels as described in Item 2.

b. Steel Framing Members* -- Used to attach furring channels (Item 7Aa) to interior side of studs. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC -- Type Isomax.
7B. 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. 2-3/8 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 #6 framing 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 furring channels as described in Item 2.

b. Steel Framing Members* -- Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC -- Type Genie Clip

7C. Steel Framing Members* -- (Optional, Not Shown) -- Furring channels and resilient sound isolation clip 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 secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in.
from overlap edge). Gypsum board attached to furring
channels as described in Item 2. Side joint furring channels
shall be attached to studs with RESILMOUNT Sound Isolation
Clips - Type A237R located approximately 2 in. from each
end of length of channel. Both Gypsum Boards at side
joints fastened into channel with screws spaced 8 in. OC,
approximately 1/2 in. from joint edge.

b. Steel Framing Members* -- Resilient sound isolation clip used to attach furring channels (Item 7Ca) to studs. Clips spaced 16 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS -- RESILMOUNT Sound Isolation Clips - Type A237R

8. Non-Bearing Wall Partition Intersection -- (Optional) -- Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification(such as Canada), respectively.

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END OF U356


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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME
FIRE RATING UL DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:

DRAWING NUMBER:
**G102**

Design No. P522

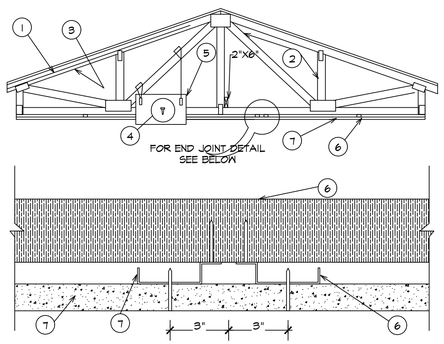
BXUV.P522
Fire Resistance Ratings - ANSI/UL 263
Design/System/Construction/Assembly Usage Disclaimer
Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
Authorities Having Jurisdiction should be consulted before construction.Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
Only products which bear UL's Mark are considered Certified.

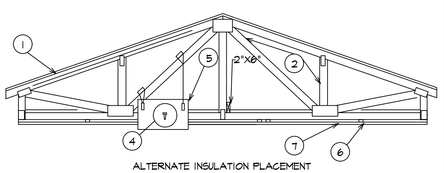
BXUV - Fire Resistance Ratings - ANSI/UL 263
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-resistance Ratings - ANSI/UL 263
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. P522

January 26, 2016
Unrestrained Assembly Rating -- 1 Hr
Finish Rating -- 25 Min (See Items 3 or 3A )
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used -- See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.




ALTERNATE INSULATION PLACEMENT

1. Roofing System* -- Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. Trusses -- Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets ( Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. Batts and Blankets* -- (Optional) - Required when Item 6B is used -- Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When Steel Framing Members (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.

3A. Fiber, Sprayed* -- As an alternate to Item 3 (not evaluated for use with Item 6B) -- Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft3, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft3 over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft3 behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.

U S GREENFIBER L L C -- INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

4. Air Duct* -- Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. Ceiling Damper* -- Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.

C&S AIR PRODUCTS -- Model RD-521

POTTORFF -- Model CFD-521

5A. Alternate Ceiling Damper* -- Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area.

C&S AIR PRODUCTS -- Model RD-521-BT

POTTORFF -- Model CFD-521-BT.

5B. Alternate Ceiling Damper* -- Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.

POTTORFF -- Models CFD-521-IP, CFD-521-NP

5C. Alternate Ceiling Damper* -- Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC -- Model CRD2

5D. Alternate Ceiling Damper* -- Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC -- Model SIG-CRD

5E. Alternate Ceiling Damper* -- Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA -- Model PC-RD05C5

5F. Alternate Ceiling Damper* -- Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C -- Model RDFU

5G. Alternate Ceiling Damper* -- Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C -- Models RDJ1 and RDH

6. Furring Channels -- Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

6A. Steel Framing Members - (Not Shown)* - As an alternate to Item 6, furring channels and Steel Framing Members 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 trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. Steel Framing Members -- Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

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

6B. Steel Framing Members* -- (Not Shown) - As an alternate to Items 6 and 6A.

a. Furring Channels -- Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.

b. Cold Rolled Channels -- 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. Blocking -- Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.

d. Steel Framing Members* -- Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four#6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.

KINETICS NOISE CONTROL INC -- Type ICW.

6C. Steel Framing Members* -- (Not Shown) - As an alternate to Items 6, 6A and 6B.

a. Furring Channels -- Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 24 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. Steel Framing Members* -- Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (24 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

PLITEQ INC -- Type Genie Clip

6D. Steel Framing Members* -- (Not Shown) - As an alternate to Items 6, 6A, 6B and 6C.

a. Main runners -- Installed perpendicular to trusses -- Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. Cross tees or channels -- Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. Wall angles or channels -- Used to support steel framing member ends and for screw- attachment of the gypsum wallboard -- Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.

CGC INC -- Type DGL or RX.

USG INTERIORS LLC -- Type DGL or RX.

6E. Alternate Steel Framing Members -- (Not Shown)* - As an alternate to items 6, 6A, 6B, and 6C, furring channels and Steel Framing Members as described below.

a. Furring Channels -- Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 24 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. Steel Framing Members* -Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 24" OC and secured to the bottom of the trusses with one No. 10 x 2-1/2 Coarse Drywall Screw through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and screwed with four No. 8 x 1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Additional clips are required to hold the Gypsum Butt joints and side joints as described in Item 7.

STUDCO BUILDING SYSTEMS -- RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6F. Steel Framing Members* -- (Not Shown) - As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 6 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

USG INTERIORS LLC -- Type DGL or RX

7. Gypsum Board* -- One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A ) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A ) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane.

When Steel Framing Members* (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S

bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.
When Steel Framing Members (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the continuous furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer. When Steel Framing Members (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end, spaced approximately 2 in. in from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joint furring channels shall be attached with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side joints, approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring channels shall be attached to underside of the joist with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of the approximate 20 in. length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.
When alternate Steel Framing Members* (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

CGC INC -- Types C, IP-X2, IPC-AR.

UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR. USG
BORAL ZAWAWI DRYWALL L L C SFZ -- Type C USG MEXICO S A
DE C V -- Types C, IP-X2, IPC-AR.

7A. Gypsum Board* -- For use with Steel Framing Members (Item 6D) when Batts and Blankets* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the mid span of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with Steel Framing Members* (Item 6D) when Batts and Blankets* (Item 3) are used - Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.
CGC INC -- Type C or IP-X2.
UNITED STATES GYPSUM CO -- Type C or IP-X2.
USG BORAL ZAWAWI DRYWALL L L C SFZ -- Type C
USG MEXICO S A DE C V -- Type C or IP-X2.

8. Finishing System(Not Shown)Vinyl,dry or premixed joint compound,applied in two coats to joints and screw heads;paper tape, 2 in. wide,embedded in first layer of compound over all joints. As an alternate, nom3/32 in.thick
veneer plaster may be applied to the entire surface of gypsum board. Alternate Ceiling Membrane -- Not Shown.

9. Netting -- Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification(such as Canada), respectively.

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END OF P522

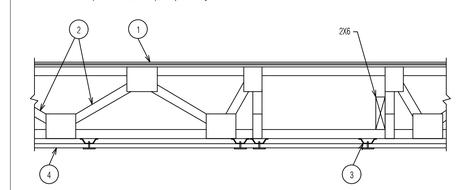
Design No. L528

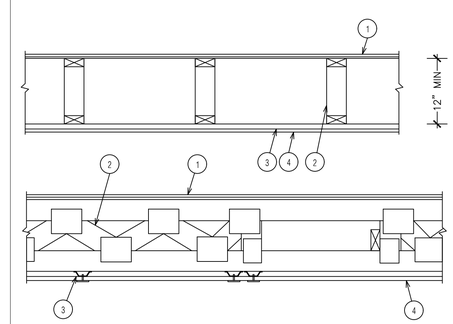
SYSTEM:# 4

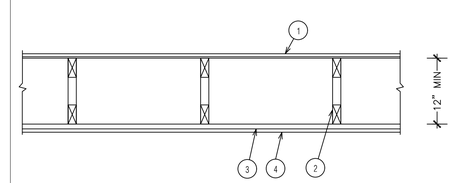
BXUV.L528
Fire-resistance Ratings - ANSI/UL 263
Design/System/Construction/Assembly Usage Disclaimer
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-resistance Ratings - ANSI/UL 263
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design No. L528
March 15, 2016
Unrestrained Assembly Rating - 1 Hr.
Finish Rating - 22 Min.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used -- See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
NO. 5862
03/01/2024
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

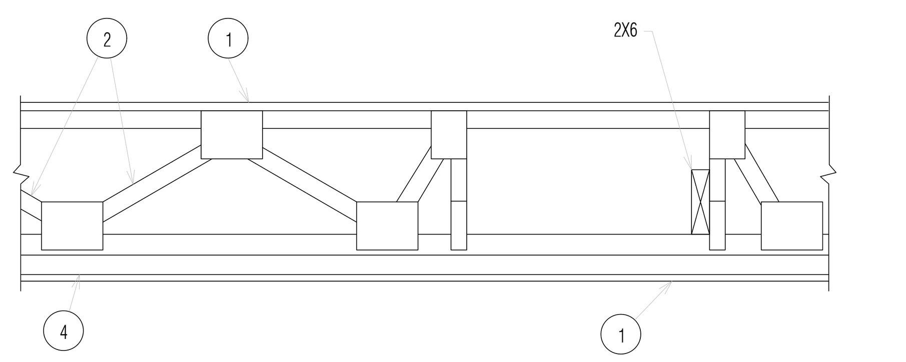
DRAWING NAME

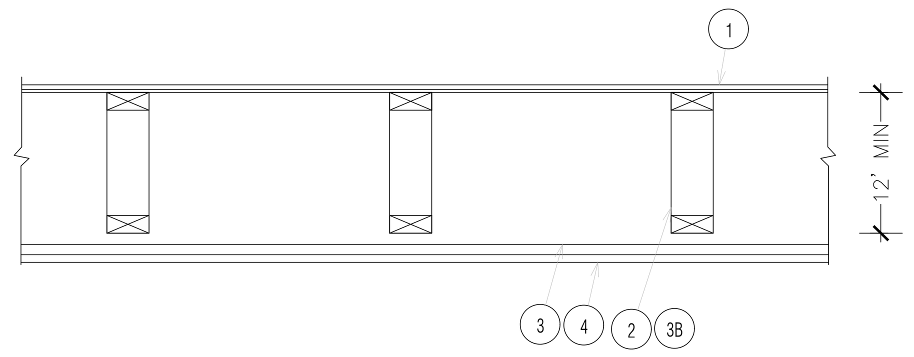
FIRE RATING UL DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:

DRAWING NUMBER:

**G103**




System No. 1
Subflooring -- Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails
measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in.
round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
System No. 2
Subflooring -- Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss.TetraGRIP™ nails
measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in.
round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier -- (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier -- (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring -- Min 3/4 in. thickness of lightweight insulating concrete with Perlite Aggregate* or Vermiculite Aggregate*, or gypsum concrete.
See Perlite Aggregate (CFFX) and Vermiculite Aggregate (CJZZ) categories for names of manufacturers.
System No. 3
Subflooring -- Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.
Vapor Barrier -- (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
Floor Mat Materials* -- (Optional)-- Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.
ECORE INTERNATIONAL INC -- Type QTscu 4002
HACKER INDUSTRIES INC -- Type Hacker Sound-Mat.

Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm)
of floor-topping mixture.
ECORE INTERNATIONAL INC -- Type QTrbm 3006-3
HACKER INDUSTRIES INC -- Type Hacker Sound-Mat II.
Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 1/8 in. (3 mm) thick loose laid over the Subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)
HACKER INDUSTRIES INC -- FIRM-FILL SCM 125
Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 1/4 in. (6 mm) thick loose laid over the Subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)
HACKER INDUSTRIES INC -- Type FIRM-FILL SCM 250, Quiet Qurl 55/025
Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)
HACKER INDUSTRIES INC -- FIRM-FILL SCM 400, Quiet Qurl 60/040
Alternate Floor Mat Materials - (Optional) -- Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm)
HACKER INDUSTRIES INC -- Type FIRM-FILL SCM 750, Quiet Qurl 65/075
Metal Lath (Optional) -- For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh,
3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.
Finish Flooring - Floor Topping Mixture* -- Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.
HACKER INDUSTRIES INC -- Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant
System No. 4
Subflooring -- Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.
Vapor Barrier -- (Optional) -- Commercial asphalt saturated felt, 0.010 in. thick.
Finish Flooring - Floor Topping Mixture* -- Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO -- Types LRK, HSLRK, CSD
USG MEXICO S A DE C V -- Types LRK, HSLRK, CSD
Floor Mat Materials* -- (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO -- Types LRK, HSLRK, CSD
USG MEXICO S A DE C V -- Types LRK, HSLRK, CSD
Floor Mat Materials* -- (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO -- Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25
Alternate Floor Mat Materials* -- (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
System No. 5
Subflooring -- Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.
Vapor Barrier-(Optional) -- Commercial asphalt saturated felt, 0.030 in. thick.sh Flooring - Floor Topping Mixture* -- Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000

System No. 12
Subflooring -- Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.
Vapor Barrier -- (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
Finish Flooring - Floor Topping Mixture* -- Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
ALLIED CUSTOM GYPSUM -- Accu-Crete, AccuRadiant, AccuLevel G40 and AccuLevel SD30.
Alternate Floor Mat Material* - (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.

ALLIED CUSTOM GYPSUM -- Type AccuQuiet P80, Type AccuQuiet C40, AccuQuiet D13, and Type AccuQuiet D-18.
System No. 13
Subflooring -- Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier -- (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier -- (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring* -- Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.
Floor Mat Materials* -- (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 65/075, Quiet Qurl 65/075 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. ¼ in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC -- Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT
System No. 14
Subflooring -- Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Gypsum Board* -- One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C -- Type DS
Floor Mat Materials* -- (As an alternate to the single layer gypsum board) - Floor mat material loose laid over the subfloor.
MAXXON CORP -- Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Acousti-Mat 3, Acousti-Mat 3 HP, Enkasonic 9110, Enkasonic 9110 HP, Acousti-Mat LP-R.
Gypsum Board* -- (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C -- Type DS
System No. 15
Subflooring -- Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.
Vapor Barrier -- (Optional) -- Commercial asphalt saturated felt, 0.030 in. thick.
Finish Flooring - Floor Topping Mixture* -- Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
DEPENDABLE LLC -- GSL M3.4, GSL K2.6 and GSL RH
Floor Mat Materials* -- (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 65/075, Quiet Qurl 65/075 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC -- Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N
Alternate Floor Mat Materials* -- (Optional) - Floor mat material Nom. ¼ in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC -- Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT
System No. 16 Subflooring -- Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier -- (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.Vapor Barrier -- (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.
Finish Flooring* -- Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Floor Mat Materials* -- (Optional) - Nom 3/32 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC -- Type GenieMat RST02
Floor Mat Materials* -- (Optional) - Nom 3/16 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC -- Type GenieMat FF04
Floor Mat Materials* -- (Optional) - Nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC -- Type GenieMat FF06
Floor Mat Materials* -- (Optional) - Nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
PLITEQ INC -- Type GenieMat FF10
Floor Mat Materials* -- (Optional) - Nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

2. Trusses -- Parallel chord trusses, spaced a max 24 in. OC, fabricated from nom 2 by 4 in. lumber with lumber oriented vertically or horizontally. Min truss depth is 12 in. when item 9 is not employed. Min truss depth is 18 in. when item 9 is employed. Truss members secured together with min No. 20 MSG galv steel truss plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split-tooth-type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx 7/8 in. centers with four rows of teeth per in. of plate width.

3. Furring Channels -- Furring channels, 7/8 in. deep by 2-9/16 in. or 2-11/16 in. or 2-23/32 in. wide at the base and 1-7/16 in. wide at the face, formed from No. 25 ga galv steel, spaced 24 in. OC perpendicular to trusses. Channels secured to trusses with double strand of No. 18 SWG galv steel wire spaced 48 in. OC. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two furring channels used at end joints of gypsum board (Item 4), each extending a min of 6 in. beyond both side edges of the board.

3A. Resilient Channels -- (Not Shown) - As an alternate to Item 3, resilient channel formed from No. 26 MSG galv steel, spaced 16 in. OC perpendicular to trusses. Channels secured to each truss with 1-1/4 in. long No. 6 Type S bugle head steel screw. Channels overlapped at splices 4 in. Two resilient channels used at end joints of gypsum board (Item 4), each extending a min of 6 in. beyond both side edges of the board. 3B. Steel Framing Members* -- (Optional) - Used as an alternate method to attach furring channels to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to the bottom chord of alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to the bottom chord of alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 3. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two min 7/16 in. long No. 6 self-tapping framing screws, at the midpoint of the overlap, with one screw on each flange of the channel.Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 4. When Fiber, Sprayed (Item 6) is used, furring channel spacing reduced to 16 in. OC and two layers of nom 5/8 in. thick, 4 ft wide gypsum board shall be installed as described in Item 4.

PAC INTERNATIONAL L L C -- Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75). 3C. Steel Framing Members* -- (Optional, Not Shown) - Used as an alternate method to attach furring channels to trusses. Clips spaced 48 in. O

C., and secured to the bottom chord to alternating trusses with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 4. Two layers of gypsum board required as described in Item 4. Not evaluated for use with Item 6. When Item 3C is used and Batts and Blankets* are added per Section III Item 18 Blanket Insulation in the General Information of this Directory (BXUV), clips spaced 48 in. OC, furring channels spaced 16 in. OC max, 3-1/2 in. max. Batts and Blankets* secured to plywood subfloor with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC, and two layers of gypsum board required as described in Item 4A. When the Batts and Blankets* are draped over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses, the furring channel spacing shall be reduced to 12 in. OC, and two layers of gypsum board required as described in Item 4A.

KINETICS NOISE CONTROL INC -- Type Isomax.
3D. Steel Framing Members* -- (Optional, Not Shown) - Used as an alternate method to attach furring channels to trusses. Clips spaced 48 in. OC. and secured to the bottom chord to alternating trusses with one No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.
Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 4. Not evaluated for use with Item 6.
PLITEQ INC -- Type Genie Clip
3E. Steel Framing Members* -- (Optional, Not Shown) - Used as an alternate method to attach furring channels to trusses. Clips spaced at 24" OC and secured to the bottom of the trusses with one No. 10 x 2-1/2 Coarse Drywall Screw through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and screwed with four #8 x 1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Additional clips are required to hold the Gypsum Butt joints and side joints as described in item 4. Not evaluated for use with Item 6.
STUDCO BUILDING SYSTEMS -- RESILMOUNT Sound Isolation Clips - Type A237 or A237R
3F. Resilient Channels -- Resilient channels, formed from No. 25 MSG galv steel and shaped as shown, spaced 12 in. OC perpendicular to joist. Channels overlapped 4 in. at splices and secured to each joist with 1-1/4 in. Type S screws. Min end clearance of channels to wall to be 1/2 in. Additional resilient channels positioned so as to coincide with end joints of gypsum board (Item 4B).
2. Gypsum Board* -- One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to furring or resilient channels. Gypsum board secured with 1 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. End joints secured to both resilient channels as shown in the end joint detail. When Steel Framing Members (Item 3B) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimension perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle head screws spaced 12 in. OC in the field of the board. Gypsum board butt joints shall be staggered 2 ft within the assembly, and shall occur between the main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels at each butt
joint shall be spaced approximately 3-1/2 in. OC, and be attached to the bottom chord of the truss with one RSIC-1 clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. When both Steel Framing Members (Item 3B) and Fiber, Sprayed (Items 6 or 6A) are used, furring channel spacing reduced to 16 in. OC and two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimension perpendicular to furring channels. Base layer secured to furring channels with nom 1 in. long No. 6 Type S bugle head screws spaced 12 in. OC in the field of the board. Gypsum board butt joints shall be staggered 2 ft within the assembly, and shall occur between the main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels at each butt joint shall be spaced approximately 3-1/2 in. OC, and be attached to the bottom chord of the truss with one RSIC-1 clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer secured to furring channels using 1-5/8 in. long No. 6 Type S screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min. of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min. 18 in. from butted side joints of base layer. When Steel Framing Members (Item 3C) are used, two layers of nom 5/8 in. thick, 4 ft wide are installed with long dimensions perpendicular to furring channels.
Base layer attached to the furring channels using 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Butted end joints shall be staggered min 2 ft. within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 4 in. OC, and be attached to underside of the truss with one Isomax clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field. The end of the outer layer boards at the butt joint shall be attached to the base layer boards with 1-5/8 in. long Type G screws spaced 8 in. OC and 1-1/2 in. from theend joint. Butted end joints to be offset a min of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min 18 in. from butted side joints of base layer. When Steel Framing Members (Item 3D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels.

Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 16 in. within the assembly. . At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. These additional furring channels shall be attached to underside of the truss with Genie clips as described in Item 3D. Screw spacing along the gypsum board butt joint shall be 6 in. OC. When Steel Framing Members (Item 3E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum
board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end, spaced approximately 2 in. in from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joing furring channels shall be attached with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side joints, approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring channels shall be attached to underside of the truss with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of the approximate 20 in. length of channel. Both Gypsum Boards
at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. When Fiber, Sprayed (Items 6 or 6A) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer gypsum board secured with 1 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. End joints secured to both resilient channels as shown in the end joint detail. Outer layer gypsum board secured with 1-5/8 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. Outer layer shall be finished as described in Item 5.
AMERICAN GYPSUM CO -- Type AG-C
CERTAINTEED GYPSUM INC -- Types FRPC, Type C
CGC INC -- Types C, IP-X2, IPC-AR
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC-C/A
GEORGIA-PACIFIC GYPSUM L L C -- Types 5, DAPC, TG-C
NATIONAL GYPSUM CO -- Types eXP-C, FSK-C, FSW-C, FSW-G
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type C
THAI GYPSUM PRODUCTS PCL -- Type C
UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR
USG BORAL ZAWAWI DRYWALL L L C SFZ -- Type C
USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR
4A. Gypsum Board -- For use when Item 3C is used and Batts and Blankets* are secured to the plywood subfloor, to the trusses or draped over the furring channel/gypsum panel ceiling membrane as described in Item 3C. For method of gypsum board installation, see Item 4.
CGC INC -- Types C, IP-X2, IPC-AR
UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR
USG BORAL ZAWAWI DRYWALL L L C SFZ -- Type C
USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR
4B. Gypsum Board* -- For use when Batts and Blankets* (Item 7A) and Resilient Channels (Item 3F) are used. Nom 5/8 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to resilient channels. Nom 1 in. long No. Type S bugle head screws are driven through channel spaced 8 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations.
AMERICAN GYPSUM CO -- Type AG-C.
5. Finishing System -- (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw- heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.
6. Fiber, Sprayed* -- (Dry Dense Packed 100% Borate Formulation) -- (Not Shown, Optional) -- 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. When Item 6A (Fiber, Sprayed, Dry Dense Packed) is used, Furring Channels (Item 3F) or Resilient Channels (Item 3A) spacing shall be reduced to 12 in. OC. When Item 6A (Fiber, Sprayed, Dry Dense Packed) is used, two layers of gypsum board required as described in Item 4. Not evaluated for use with Item 3C.

U S GREENFIBER L L C -- INS735, INS745, INS765LD & INS770LD to be used with dry application only.
6A. Fiber, Sprayed* -- (Loose Fill 100% Borate Formulation) -- (Not Shown, Optional) -- The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a minimum dry density of 0.5 lb/ft3 and at a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. When Item 6B (Fiber, Sprayed, Loose Fill) is used, Furring Channels (Item 3F) or Resilient Channels (Item 3A) spacing shall be reduced to 12 in. OC. When Item 6B (Fiber Sprayed, Loose Fill) is used, two layers of gypsum board required as described in Item 4. Not evaluated for use with Item 3C.
U S GREENFIBER L L C -- INS735, INS745, INS765LD & INS770LD to be used with dry application only.
1. Batts and Blankets* -- (Not Shown) - For use with Item 3D - Nom 3 in. thick mineral wool insulation held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 18 in. OC.
7A. Batts and Blankets* -- For Use With Items 3F and 4B - Glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance having a min. density of 0.5 pcf, draped over the resilient channel/gypsum panel ceiling membrane. No limit on overall thickness.
7B. Batts and Blankets* -- (Not Shown) - For use with Item 3E - Nom 3-1/2 in. thick, min. 2 pcf fiber glass insulation held suspended in the concealed space with nominal 0.090 in. diam galv steel wires attached to the wood trusses at nominally 16 in. OC
2. Air Duct* -- (Optional) -- Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.
3. Ceiling Damper* -- (Optional. To be used with Air Duct Item 8.) -- For use with min. 18 in. deep trusses. Not for use with flooring system 1. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening.
Aggregate damper
openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 10) shall be installed in accordance with installation instructions.
MIAMI TECH INC -- Model Series RxCRD, RxCRDS or RxCRPD
9A. Ceiling Damper* -- (Optional. To be used with Air Duct Item 8.) -- For use with min. 18 in. deep trusses. Not for use with flooring system 1. Max damper assembly size nom 18 in. long by 18 in. wide and 4-1/4 in. high, or 8 in. diam. fabricated from galv steel.
Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area.
Damper installed in accordance with the manufacturers installation instructions provided with the damper.
RUSKIN COMPANY -- Model CFD7T or CFDR7T
9B. Ceiling Damper* -- (Optional. To be used with Air Duct Item 8.) -- For use with min. 18 in. deep trusses. Not for use with flooring system 1. Max damper assembly size nom 18 in. long by 18 in. wide and 4-1/4 in. high, or 8 in. diam. fabricated from galv steel. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area.
Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LAU INDUSTRIES INC -- Model CCD7T or CCDR7T
9C. Ceiling Damper* -- (Optional. To be used with Air Duct Item 8.) -- For use with min. 18 in. deep trusses. Not for use with flooring system 1. Max 12 in. diameter damper with insulated register box assembly. The maximum size of the register box assembly is nom. 20 in. long by 20 in. wide and 4 in. high fabricated from galv steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 128 sq in. per 100 sq ft of ceiling area.
Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC -- Series 57
9D. Ceiling Damper* -- (Optional. To be used with Air Duct Item 8.) -- For use with min. 18 in. deep trusses. Not for use with flooring system 1. Max 20 in. long by 16 in. wide by 4 in. high rectangular damper with duct board plenum box assembly. The maximum outer dimensions of the plenum box assembly are 23-1/2 in. long by 19-1/2 in. wide and 17 in. high fabricated from 6pcf, 1-1/2 to 2 in. thick Knauf Air Duct Board M*. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 160 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC -- Series 58
9E. Ceiling Damper* -- (Optional. To be used with Air Duct Item 8.) -- For use with min. 18 in. deep trusses. Not for use with flooring system 1. Max 14 in. long by 14 in.wide by rectangular damper with 90° boot. The maximum size of damper/boot assembly is 14 in. long by 14 in. wide and 18 in. high fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 98 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC -- Models 50 w/ Boot, 50EA w/ Boot, 51 w/Boot, 50 w/ Box, 50EA w/ Box or 51 w/Box
9F. Ceiling Damper* -- (Optional. To be used with Air Duct Item 8). -- For use with min 18 in. deep trusses Not for use with flooring system 1. Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC -- Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT
9H. Alternate Ceiling Damper* -- (Optional. To be used with Air Duct Item 8). Ceiling damper & fan assembly for use with min 18 in. deep trusses. Not for use with flooring system 1. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA -- Model PC-RD05C5
9I. Alternate Ceiling Damper* -- Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grillem (Item 10) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C -- Model RDFU
9J. Alternate Ceiling Damper* -- Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 10) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C -- Models RDJ1 and RDH
10. Grille -- Aluminum or Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

END OF L528

**DESIGN GROUP, LLC.**
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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL
AT
HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 8882
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME
FIRE RATING UL DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:
**G104**

## Design No. X528

BXUV.X528

Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.

Authorities Having Jurisdiction should be consulted before construction.

Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.

ended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.

Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

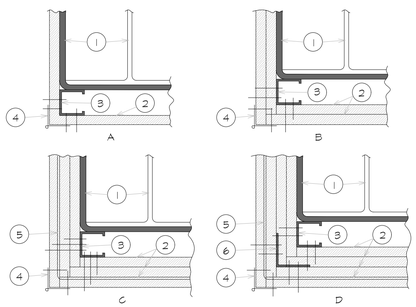
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. X528

June 06, 2016

Ratings -- 1, 2 and 3 Hr.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.




CORNER DETAILS OF WALL BOARD SUPPORT SYSTEMS WITHOUT STEEL COVERS

1. Steel Column - Min sizes of W-shaped and tubular steel columns which appear in the AISC Steel Construction Manual as shown under Item 2.

2. Gypsum Board* - Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Norn 1/2 in. or 5/8 in. thick gypsum board. Applied in layers as noted in the above illustrations. Boards are to be applied vertically without horizontal joints. Min total thickness of layers in inches for the various ratings and min column sizes are as follows:

| W SHAPED COLUMN MIN COLUMN SIZE | RATING (Hr) | | | CORNER DETAILS FOR VARIOUS RATING | | |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 1 Hr | 2 Hr | 3 Hr |
| TOTAL THICKNESS(In.) | | | | | | |
| W4x13 | 1 | 1-1/2 | 2-1/4 | B | C | D |
| W6x15.5 | 1 | 1-1/2 | 2-1/4 | B | C | D |
| W10x49 | 1/2 | 1-1/8 | 1-7/8 | A | B | C |
| TUBE SHAPED COLUMNS | | | | | | |
| TS 4 by 4 | | | | | | |
| by 0.188 | 1 | 1-3/4 | 2-5/8 | B | C | D |
| TS 8 by 8 | | | | | | |
| by 0.250 | 5/8 | 1-1/2 | 2-1/4 | A | C | D |

ACADIA DRYWALL SUPPLIES LTD (View Classification) - CKNX.R25370

AMERICAN GYPSUM CO (View Classification) - CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) - CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification)-CKNX.R3660

CGC INC (View Classification) - CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) -- CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) -- CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) -- CKNX.R11809

NATIONAL GYPSUM CO (View Classification) -- eXP-C, CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) -- CKNX.R7094

PANEL REY S A (View Classification) -- CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) -- CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) -- CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) -- CKNX.R1319

USG MEXICO S A DE C V (View Classification) -- CKNX.R16089

2A. Gypsum Board* -- As an alternate to Item 2- 3/4 in. thick gypsum wallboard. For 2 Hr rating, 1-1/2 in. total thickness, installed in accordance with corner detail B. For 3 Hr rating, 2-1/4 in. total thickness installed in accordance with corner detail C. Boards are to be applied vertically without horizontal joints.

CGC INC -- Type IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO -- Type IP-X3 or ULTRACODE

USG BORAL ZAWAWI DRYWALL L L C SFZ -- Type ULTRACODE

USG MEXICO S A DE C V -- Type IP-X3 or ULTRACODE

2B. Gypsum Board* -- (As an alternate to Items 2 and 2A) -- Nominal 5/8 in. thick panels. One of the layers of Gypsum Board (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer and secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type QuietRock ES

2C. Wall and Partition Facings and Accessories* -- (As an

alternate to Item 2 through 2B) -- Composite Gypsum Panel-Nominal 5/8 in. thick panels. One of the layers of Gypsum Board (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer of composite gypsum panel and secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Type QuietRock QR

3. Steel Stud -- 1-5/8 in. wide with 1-5/16 and 1-7/16 in. legs having a 1/4- in. folded flange, fabricated from No. 25 MSG galv steel. Length to be 1/2 in. less than the assembly height.

3A. As an alternate to Item 3 Steel Framing Members* -- galv. steel clips spaced 4 ft OC and 1-1/4 in. from top and bottom of column. A No. 28 MSG galv steel support angle with 1-1/4 in. length shall be placed over clips and secured with screws attaching the wallboard. The angle cut 1 in. less than assembly height splices in angle to occur over clips. The clips for use with wide flange columns only.

JOHN WAGNER ASSOCIATES INC, DBA GRABBER -- Types CB, CB1Clips.

4. Corner Beads -- No. 28 MSG galv steel, 1-1/4 in. legs to be attached to the wallboard with No. 6 by 1 in. screws spaced 12 in. OC max.

5. Tie Wire - No. 18 SWG steel wire spaced 24 in. OC used with second layer of wallboard.

6. Screws -For attaching first layer of wallboard to steel studs, and third layer of wallboard to 2 in. by 2 in.steel angle-screws spaced 24 in. OC For attaching second layer of wallboard to steel studs and fourth layer of wallboard to 2 in. by 2 in. steel angle (25 Ga) to be No. 6 by 1-3/4 in. (or 2-1/4 in. for 3/4 in. thick wallboard) steel screws of the same type spaced 12 in. OC For attaching third layer of wallboard to steel studs to be No. 8 by 2-1/4 in. screws of the same type spaced 12 in. OC

7. Finishing System -- (Not Shown) -- Joint compound applied over corner beads to a thickness of 1/16 in.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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END OF X528

## Design No. U428

BXUV.U428

Fire resistance Ratings ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

● Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.

● Authorities Having Jurisdiction should be consulted before construction.

● Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.

● When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.

● Only products which bear UL's Mark are considered Certified.

BXUV Fire Resistance Ratings ANSI/UL 263

BXUV7 Fire Resistance Ratings CAN/ULC S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

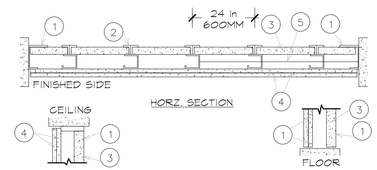
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U428

July 05, 2016

Nonbearing Wall Rating -- 2 Hr

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.




1. Floor and Ceiling Runners -- "J" shaped runners, min. 2 1/2 in. wide with unequal legs of 1 in. and 2 1/4 in., fabricated from min. 25 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not more than 2 in. from ends and not more than 24 in. OC.

1A. Framing Members* -- Floor and Ceiling -- Not shown -- As an alternate to Item 1 -- For use with Item 2A, proprietary "J" shaped runners, galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not more than 2 in. from ends and not more than 24 in. OC.

RONDO BUILDING SERVICES PTY LTD -- Type J Runner Track

1B. Steel Framing Members (Floor, Side and Ceiling Runners)* -- As an alternate to Item 1. "J" shaped runner, min 2 1/2 in. deep, with unequal legs of 1 in. and min 2 1/4 in. fabricated from min 25 MSG galv steel (0.0179 in. bare steel thickness). Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. Runners may be supplied with securement tabs for gypsum liner panels (refer to Item

3).SCAFCO STEEL STUD MANUFACTURING CO -- I Stud Shaftwall Steel Framing System

1. Steel Studs -- "C T" or "C H" shaped studs 1 5/8 in. wide by min. 2 1/2 in. deep, fabricated from min. 25 MSG galv steel. Cut to lengths 3/4 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC.

2A. Framing Members* -- Steel Studs -- As an alternate to Item 2 -- Proprietary "C H" shaped studs, galv steel. Cut to lengths 3/4 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC.

RONDO BUILDING SERVICES PTY LTD -- Type CH Stud

2B. Steel Framing Members (Steel Studs)* -- As an alternate to Item 2. For use with Item 1B "I" shaped studs fabricated from min 25 MSG galv steel, min 2 1/2 in. deep, 1 1/2 in. wide. Studs contain 3/4 in. wide by 2 1/4 in. high holding tabs spaced 2 3/4 in. OC. Cut to lengths 5/8 in. less than floor to ceiling height and spaced 24 in.

SCAFCO STEEL STUD MANUFACTURING CO -- I Stud Shaftwall Steel Framing System

2. Gypsum Board* -- 1 in. thick gypsum wallboard liner panels, supplied in nom. 24 in. or 600 mm (for metric spacing) widths. Panels cut 1 in. less in length than the floor to ceiling height. Vertical edges of the panels inserted into "T" shaped section of C T studs or the "H" section of the C H studs.

Free edge of end panels secured to long leg of J runner with tabs in runner or 1 5/8 in. long Type S self tapping bugle head steel screws spaced not more than 12 in. OC. When J shaped runners (Item 1B) are supplied with securement tabs, free edge of end panels may be secured by bending the securement tabs, max 12 in. OC, to a 90 degree angle to securely friction fit panels into J shaped runners.

AMERICAN GYPSUM CO -- Types AG S, M Glass

CERTAINTEED GYPSUM INC -- Types Shaftliner, EGRG Shaftliner, GlasRoc Shaftliner.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFCSL

GEORGIA PACIFIC GYPSUM L L C -- Types TP 6, DGUSL, and TRSL

NATIONAL GYPSUM CO -- Types FSW, FSW B, FSW 7, FSW 9

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types PG 10 and PG 10G

THAI GYPSUM PRODUCTS PCL -- Type Shaftliner

1. Gypsum Board* -- 1/2 or 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached horizontally to studs and side "J" runners with 1 in. long Type S self tapping steel screws starting at 2 in. from the floor and ceiling runners and spaced a maximum 24 in. OC along the vertical edges and in the field of the boards.

Face layer installed vertically to studs and side "J" runners and attached with 1 5/8 in. long Type S self tapping steel screws, starting at 3 in. from the floor and ceiling runners and spaced a maximum 12 in. OC along the vertical edges and in the field of the boards. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

ACADIA DRYWALL SUPPLIES LTD -- Type C

AMERICAN GYPSUM CO -- Types AG C

CERTAINTEED GYPSUM INC -- Type C

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Types LGFC C/A, LGFC6A

GEORGIA PACIFIC GYPSUM L L C -- Types DAPC, TG C.

NATIONAL GYPSUM CO -- Types eXP C, FSK, FSL, FSMR C, FSW 3, FSW 8, FSW C, FSW G.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM -- Types PG C, 5/8 in. Type C.

SAINT GOBAIN GYPROC MIDDLE EAST FZE -- Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

END OF U428

## Design No. U905

BXUV.U905

Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

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• Authorities Having Jurisdiction should be consulted before construction.

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• Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-5101 Certified for Canada

See General Information for Fire- resistance Ratings - ANSI/UL 263

See Genera I Information for Fire Resistance Ratings - CAN/ULC-S 101 Certified for Canada

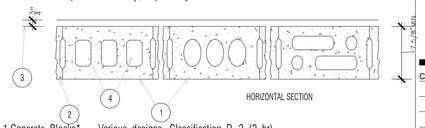
## Design No. U905

March II, 2016

Bearing Wall Rating -- 2 HR. Nonbearing Wall Rating -- 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used -- See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada}, respectively.




1.Concrete Blocks* -- Various designs. Classification D- 2 (2 hr) .

See Concrete Blocks category for list of eligible manufacturers.

2.Mortar -- Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2- 1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume) . Vertical joints staggered.

3. Portland Cement Stucco or Gypsum Plaster -- Add 1/2 hr to classification if used. Where combustible members a re framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1- 1/2 hr. Attached to concrete blocks (Item 1) .

4. Loose Masonry Fill -- If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. Foamed Plastic * -- (Optional- Not Shown) -- 1- 1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item I).

ATLAS ROOFING CORP -" EnergyShield Pro Wall Insulation" and " EnergyShield Pro 2 Wall Insulation"

CARL1SLE COATINGS & WATERPROOFING INC -- Type R2+ Sheath

F1RESTONE BUILDING PRODUCTS CO L L C --" Enverge'" CI Foil Exterior Wall Insulation" and " Enverge'" CI Glass Exterior Wall Insulation"

HUNTER PANELS -- Types Xci-Class A, Xci 286

RMAX OPERATING L L C --"TSX -8500", "TSX - 8510",
"Thermasheath- XP", "ECOMAXci", "Thermasheath- 3",
"Durasheath- 3"

THE DOW CHEMICAL CO -- Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (H DP) and TUFF- R" ci Insulation SA. Building Units -- As an alternate to Items 5, min. 1- in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAx o ERAT1NG L L C --"Thermasheath-SI",
"ECOBASEci", "ThermaBase-CI"

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-03- 11 2016 UL LLC

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END OF U905

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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 6862
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

FIRE RATING UL DETAILS

DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

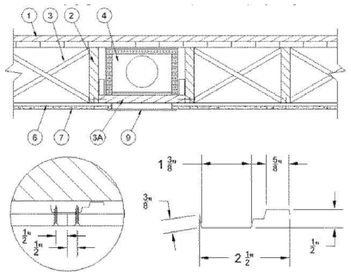
DRAWING NUMBER:

G105

Design No. L502

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 22 Min. or (16 Min. See Item 7D)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.




1. Finish Flooring — The flooring system shall consist of one of the following:
System No. 1
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Subflooring (Alternate) — Structural Cement-Fiber Units* — Nominal 19 mm (3/4 in.) thick tongue and groove structural cement-fiber units. Long dimension of panels to be perpendicular to joists with end joints staggered. Panels fastened to the joists with #10 self-drilling, self-tapping cement board screws 1-3/4 in. long. Screws shall be

spaced 6 in. OC along the perimeter of each sheet and 12 in. OC in the field of each sheet. Screws shall be spaced 1/2 in. from end joints and 1 in. from side joints.
ECTEK INTERNATIONAL INC — Armoroc Panel

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 4 in. T & G lumber fastened diagonally to joists, or min 19/32 in. wood structural panels , min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 2
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF

System No. 3
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.
Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTscu 4002

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTrbm 3006-3

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)

HACKER INDUSTRIES INC — Types FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm)

HACKER INDUSTRIES INC — Types FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 4
Deleted.

System No. 5
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5.5 gal of water.

AERIX INDUSTRIES — Floor-Topping Mixture

System No. 6
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS — Types UQF-A, UQF-Super Blend, UQF-Plus 200

System No. 7
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Types D-C, GC, GC 2000, L-R, T-F, CT, SS
RAPID FLOOR SYSTEMS — Types RF, RFP, RFU, Ortecrete

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Enkasonic 9110, Enkasonic 9110 HP, Acousti-Mat 3, Acousti-Mat 3 HP, Acousti-Mat LP, Acousti-Mat LP-R, Acousti-Mat SD

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping over each floor mat material, primers, and use of crack suppression reinforcement.

MAXXON CORP — Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)

Metal Lath — (Optional - For use with or as an alternate to Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

System No. 8
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix.

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, R1, and R2.

System No. 9
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Floor — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 10
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.

GRASSWORX L L C — Type SC50

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 3/8 in. thick loose laid over the subfloor. Floor topping shall be a min 1 in. thick.

System No. 11
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ACG MATERIALS — Accu-Crete types NexGen, Green, Prime, B, M, and PrePour, AccuRadiant, AccuLevel types G40, G50 and SD30.

Alternate Floor Mat Material* - (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

ACG MATERIALS — AccuQuiet types P80, C40, D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 12
Subflooring — 15/32 or 19/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

System No. 13
Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 14
Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the joists with end joints staggered 4 ft. Panels secured to joists with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) — Floor mat material loose laid over the subfloor.

MAXXON CORP — Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Acousti-Mat 3, Acousti-Mat 3 HP, Enkasonic 9110, Enkasonic HP, Acousti-Mat LP, Acousti-Mat LP-R

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 15
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC — GSL M3.4, GSL K2.6, GSL-CSD and GSL RH

Floor Mat Materials*— (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 16
Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional) — Nom 3/32 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC — Type GenieMat RST02

Floor Mat Materials* — (Optional) — Nom 3/16 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC — Type GenieMat FF04

Floor Mat Materials* — (Optional) — Nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC — Type GenieMat FF06

Floor Mat Materials* — (Optional) — Nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

PLITEQ INC — Type GenieMat FF10

Floor Mat Materials* — (Optional) — Nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

PLITEQ INC — Type GenieMat FF17

Floor Mat Materials* — (Optional) — Nom 1 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

PLITEQ INC — Type GenieMat FF25
System No. 17
Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Finish Flooring* — Floor Topping Materials — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1500 psi.

See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.
Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-flor CSM (crack suppression mat) is loose laid over the floor mat material. Floor topping material thickness is dependent on thickness of floor mat used.
WALFLOR INDUSTRIES INC — Type Acousti-flor, Acousti-flor CSM. Floor topping thickness depends on products used as follows:
Acousti-flor (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.

Acousti-flor (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material. Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.
2. Wood Joists — Min 2 by 10, spaced 16 in. OC and effectively fireblocked in accordance with local codes.
3. Cross Bridging — Min 1 by 3 in. or min 2 by 10 solid blocking.
3A. Horizontal Bridging — Used in lieu of Item 3 in same joist bay as ceiling damper (Item 4), when ceiling damper is employed. Wood 2 by 4 in. secured between joists with nails.
4. Ceiling Damper* — (Optional) — Max nom area shall be 198 sq in. Max rectangular size shall be 12 in. wide by 16-1/2 in. long. Max height of damper shall be 8-3/4 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
AIR BALANCE INC — Type 299 (See Item 7D)

AIR KING VENTILATION PRODUCTS — Series AS, Series AK

AIR MANAGEMENT INC — Models AMI-50-CD-WG-B, AMI-50-CD-WG-B/VC

CENTRAL VENTILATION SYSTEMS CO L L C — Models C-S/R-HC(-A), C-RD-HC(-A); Models CD-S/R-HC, CD-RD-HC

GREENHECK FAN CORP — Model CRD-1WJ

METAL-FAB INC — Models MSCDHC, MRCDHC

METAL INDUSTRIES INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

METROPOLITAN AIR TECHNOLOGY — Model C-S/R-HC

NCA MFG INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

PRICE INDUSTRIES LTD

RUSKIN COMPANY — Model CFD7

UNITED ENERTECH CORP — Models C-S/R-HC(-A), C-RD-HC(-A)

5. Batts and Blankets* — (Optional, Not Shown) — For use with Steel Framing Members* (Items 6C and 6G) and Gypsum Board* (Items 7A and 7B). Any thickness mineral wool or glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread index of 25 or less and a smoke developed index of 50 or less. Insulation fitted in the concealed space, draped over the steel framing members/gypsum board ceiling membrane.
5A. Batts and Blankets* — For use with Items 6G and 7C - Glass fiber insulation draped over the resilient channel/gypsum panel ceiling membrane. Max. 3-1/2 in. thickness of glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance having a min. density of 0.5 pcf.
5B. Batts and Blankets* — For use with Steel Framing Members* (Item 6K) and Gypsum Board* (Item 7E) - Min. 3-1/2 in. thick, min. density 0.9 lb/ft3 unfaced fiberglass batt insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over steel framing members/gypsum board ceiling membrane and light fixture protection.
6. Resilient Channels — Resilient channels, formed from No. 25 MSG galv steel and shaped as shown, spaced 24 in. OC perpendicular to joist. Channels overlapped 4 in. at splices and secured to each joist with one 6d common nail. Min end clearance of channels to wall to be 1/2 in. Additional resilient channels positioned so as to coincide with end joints of gypsum board (Item 7). Additional channels shall extend min 6 in. beyond each side edge of board. As an alternate to the resilient channels, Steel Framing Members* (Items 6A, 6B, 6C or 6D) may be used.

6A. Steel Framing Members* — (Not Shown) — As an alternate to Item 6, main runners nom 12 ft long spaced 48 in. OC. Cross tees nom 4 ft long installed perpendicular to main runners and spaced 16 in. OC. Additional cross tees located 8 in. from and on each side of gypsum board end joints. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven into the side of joists at least 5 in. above the joist bottom face.
ROXUL USA INC. D/B/A ROCKFON — Types 650, 650C, 670, 670C

6B. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 and 6A, main runners nom 12 ft long, spaced 48 in. OC. Ends of main runners at walls to rest on wall angle, without attachment, with 1/2 to 3/4 in. end clearance. Primary cross tees (1-1/2 in. wide across flange) or cross channels, nom 4 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional primary cross tees or cross channels required at each gypsum board end joint and 8 in. from and on each side of gypsum board end joint.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000

6C. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A and 6B, main runners, cross tees, cross channels and wall angle as listed below:
a. Main Runners — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven into the side of joists at least 5 in. above the bottom face.


**DESIGN GROUP, LLC.**

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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
NO. 6852
03/01/2024
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

FIRE RATING UL DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

**G106**

b. Cross Tees — Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. When Batts and Blankets* (Item 5) are used, cross tees spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
c. Cross Channels — Nom 4 ft long, installed perpendicular to main runners, spaced 16 in. OC. When Batts and Blankets* (Item 5) are used, cross channels spaced 16 in. OC.
d. Wall Angle or Channel — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC.

To support steel framing member ends and for screw-attachment of the gypsum board.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6D. Steel Framing Members* — (Not Shown) As an alternate to Items 6, 6A, 6B and 6C, furring channels and Steel Framing Members 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 joists. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to joists (Item 2). Clips spaced 48 in. OC., and secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall 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 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6E. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B, 6C and 6D. For use in corridors or rooms having a maximum width dimension of 14 ft. Steel framing members consist of grid runners, locking angle wall molding and hanger bars. Locking angle wall molding secured to walls with steel nails or screws spaced max 24 in. OC. Slots of locking angle wall molding parallel with hanger bars to be aligned with tabbed cutouts in bottom edge of hanger bars. Hanger bars spaced max 50 in. OC and suspended with No. 12 AWG steel hanger wires spaced max 48 in. OC. Adjoining lengths of hanger bar to overlap 12 in. and to be secured together and suspended by a shared hanger wire. A min clearance of 1/4 in. shall be maintained between the ends of the hanger bars and the walls. Grid runners cut-to-length and installed perpendicular to hanger bars and spaced max 24 in. OC with additional grid runners installed 8 in. OC at gypsum board end joints. Grid runners parallel with walls to be spaced max 16 in. from wall.

Bulb of grid runner to be captured by tabbed cutouts in bottom edge of hanger bars.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000-SS

6F. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B, 6D and 6E. Main runners nom 12 ft long, spaced 72 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000

6G. Resilient Channels — Resilient channels, formed from No. 25 MSG galv steel and shaped as shown, spaced 12 in. OC perpendicular to joist. Channels overlapped 4 in. at splices and secured to each joist with 1-1/4 in. Type S screws. Min end clearance of channels to wall to be 1/2 in. Additional resilient channels positioned so as to coincide with end joints of gypsum board (Item 7B or 7C).
6H. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B, 6C and 6D, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in deep, spaced 24 in OC, perpendicular to joists. Channels secured to joists as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). Clips spaced 48 in. OC., and secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PLITEQ INC — Type Genie Clip

6I. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B, 6C and 6D, furring channels and Steel Framing Members as described below.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 24 in OC, perpendicular to joists. Channels secured to joists as described in Item b.
b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood joists (Item 2). Clips spaced at 48 in. OC and secured to the bottom of the joists with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6J. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 through 6I - Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

6K. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 through 6J - Main runners nom 12 ft long, spaced 48 in. OC. Cross tees, nom 4 ft. long, installed perpendicular to main runners and spaced 24 in. OC. Additional 4 ft. long cross tees required at 6 in. from each side of butted gypsum board end joints. When Batts and Blankets* (Item 5B) are used, cross tees spaced 16 in. OC with additional cross tees 8 in. away from each side of butted gypsum board end joints. The cross tees shall be riveted with 1/8 in. dia. rivets to the wall angle and to the main tee where the cross tee does not align with slot in the main tee. Galvanized steel wall angle with 1-1/2 in. legs attached to walls at perimeter of ceiling with fasteners at 16 in. OC. to support steel framing member ends and for screw-attachment of the gypsum board.
CERTAINTEED CORP — Types DWS12-13-20, DWS4.16-13-20, DWS4-13-20, DWS2-13-20, DWS2.16-13-20 and DWA1.5-1.5

6L. Framing Members* — (Not Shown) — As an alternate to Items 6 through 6K. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC.

Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
ROXUL USA INC. D/B/A ROCKFON — Type 670C

7. Gypsum Board* — Nom 1/2 in. thick, 4 ft wide gypsum board. When resilient channels (Item 6) are used, gypsum board installed with long dimension perpendicular to resilient channels and side joints of sheet located between joists. Nom 1 in. long No. 6 Type S bugle head screws are driven through channel spaced 12 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations. Screws shall be spaced 1/2 in. from end joints.
When Steel Framing Members* (Item 6A, 6B, 6C) are used, nom 1/2 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Gypsum board secured to cross tees with 1 in. long No. 6 Type S bugle head screws spaced 12 in. OC in the field and 8 in OC along end joints. Adjacent gypsum board sheets held to the end joint furring channel by means of one 1 in. long No. 6 Type S bugle head screw on each side of the end joints. All edge screws located 3/8 to 1/2-in. min distance from edges of gypsum board sheets to main runners with 1 in. long No. 6 Type S bugle head screws spaced 16 in. OC, midway between cross tees. Screws along sides and ends of boards spaced 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.

When Steel Framing Members* (Item 6D, 6H) are used, nom 1/2 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to furring channels and side joints of sheet located beneath joists. Nom 1 in. long No. 6 Type S bugle head screws are driven through channel spaced 12 in. OC in the field. Gypsum board butt joints shall be staggered min. 2 ft. within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the joist with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Joint treatment not required for this rating, except for tapered, rounded-edge gypsum board where edge joints are covered with paper tape and joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

When alternate Steel Framing Members* (Item 6E) are used, nom 1/2 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the grid runners with the end joints staggered min 4 ft and centered between grid runners which are spaced 8 in. OC. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide by 48 in. long pieces of gypsum board are to be laid atop the grid runner flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the grid runners at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to grid runners with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When alternate Steel Framing Members* (Item 6F) are used, nom 1/2 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

ACADIA DRYWALL SUPPLIES LTD — Type C

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type FRPC or SF3 or Type C

CGC INC — Types C, IP-X2, IPC-AR, WRC

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, C, GPFS1, DAP, DA, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-1, PG-3, PG-C

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

7A. Gypsum Board* — For use when Batts and Blankets* (Item 5) and Steel Framing Members* (Item 6C) are used. Nom 5/8 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long No. 6 Type S bugle head screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long No. 6 Type S bugle head screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.
CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC, ULIX

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

7B. Gypsum Board* — For use when Batts and Blankets* (Item 5) and Resilient Channels (Item 6G) are used. Nom 5/8 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to resilient channels. Nom 1 in. long No. Type S bugle head screws are driven through channel spaced 8 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations.
CERTAINTEED GYPSUM INC — Type C

7C. Gypsum Board* — For use when Batts and Blankets* (Item 5A) and Resilient Channels (Item 6G) are used. Nom 5/8 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to resilient channels. Nom 1 in. long No. Type S bugle head screws are driven through channel spaced 8 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations.
AMERICAN GYPSUM CO — Type AG-C

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

7D. Gypsum Board* — (Finish Rating - 16 min.) Required when Air Balance Inc. Type 299 ceiling damper (Item 4) is installed. Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in items 7 and 7A.
UNITED STATES GYPSUM CO — Type C

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C

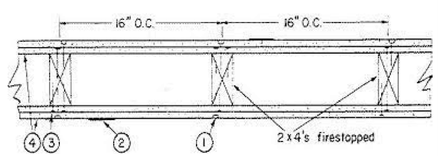
7E. Gypsum Board* — For use when alternate Steel Framing Members* (Item 6K) are used - 1/2 in. thick, 4 ft. wide; installed with long dimension parallel to main runners and perpendicular to the 4 ft. long cross tees with the end joints centered between cross tees which are spaced 6 in. OC. Sheets are attached to cross tees with screws spaced 8 in. OC on the ends and 12 in. OC in the field with additional screws located 1-1/2 in, from the side edges.

Sheets are attached to the main tees with screws spaced 8 in. OC with additional screws located 4 in. OC from the edges. Screws on the sides are located 1/2 in. from the side edge of the gypsum board. When Batts and Blankets* (Item 5B) are used - 5/8 in. thick, 4 ft. wide; installed with long dimension parallel to main runners and perpendicular to cross tees and attached with screws spaced 8 in. OC on the ends and 8 in. OC in the field with additional screws located 1-1/2 in. from the side edges. Sheets are attached to main tees with screws spaced 8 in. OC with additional screws located 4 in. OC from the side edges. Screws on the sides located 3/4 in. from the side edge of the gypsum board, and screws at the end of the gypsum board located 1/2 in. from the board ends. Joints to be covered with paper tape and joint compound.
CERTAINTEED GYPSUM INC — Type C

7F. Gypsum Board* (As an alternative to 7D) — Required when Air Balance Inc. Type 299 ceiling damper (Item 4) is installed. Nom 5/8 in. thick, 48 in. wide gypsum board, installed and secured as described in items 7 and 7A with max screw spacing 8 in. OC. When insulation is used resilient channels spaced a maximum 16 in. OC.
UNITED STATES GYPSUM CO — ULIX

8. Finishing System (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.
9. Grille — Steel grille installed in accordance with the installation instructions provided with the ceiling damper.
10. Discrete Products Installed in Air-handling Spaces* — Automatic Balancing Valve/Damper — (Not Shown - Optional) — For use with item 4, Ruskin Company's Model CFD7 damper (CABS). Ceiling damper to be provided with plenum box per damper manufacturer's instructions with side outlet only. Entire assembly to be installed into any UL Class 0 or Class 1 flexible air duct in accordance with the instructions provided by the automatic balancing valve/damper manufacturer.
METAL INDUSTRIES INC — Model ABV-4, ABV-5, ABV-6

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.




Design No. U301

Bearing Wall Rating — 2 Hr.
Finish Rating — 66 Min.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

1. Nailheads — Exposed or covered with joint compound.
2. Joints — Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.
3. Nails — 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.
4. Gypsum Board* — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
When used in widths other than 48 in., gypsum board to be installed horizontally.

When Steel Framing Members* (Item 6, 6A or 6B) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.

ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CERTAINTEED GYPSUM INC — Types 1, FRPC, EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6. LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSMR-C, FSL

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9, PG-11, PG-C or PGS-WRS

PANEL REY S A — Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type C or Type X

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

4A. Gypsum Board* — (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

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

4B. Gypsum Board* — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

4C. Gypsum Board* — (As an alternate to Items 4, 4A or 4B — Not Shown) — For Direct Application to Studs Only- For use on one or both sides of the wall as the base layer or one or both sides of the wall as the face layer. 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. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, F4j.one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RAY-BAR ENGINEERING CORP — Type RB-LBG.

4D. Gypsum Board* — As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

4E. Gypsum Board* — (As an alternate to Items 4 through 4D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 4.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board

4F. Gypsum Board* — (As an alternate to Item 4) — Not to be used with item 6, 6A, or 6B. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and secured as described in Item 4.
NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

4G. Gypsum Board * — (As an alternate to Items 4 through 4F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES

4H. Gypsum Board* — (As an alternate to Item 4) — Not to be used with item 6, 6A or 6B. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and secured as described in Item 4.
CERTAINTEED GYPSUM INC — Type SilentFX

4I. Gypsum Board* — (As an alternate to item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 8 in. OC. Outer layer attached to studs over inner layer with 2 in. long Type W steel screws spaced 8 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. As an alternate to the joint compound nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Wallboard other than 48 in. wide must be applied horizontally. The SoundBreak XP Type X Gypsum Board is not to be used with Item 6, 6A or 6B.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SoundBreak XP Type X Gypsum Board

4J. Gypsum Board* — (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. 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. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

4K. Gypsum Board* — For use with Item 7 — 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. Outer layer attached to resilient channels over inner layer with 1-5/8 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11

4L. Gypsum Board* — (As an alternate to Items 4) — For Direct Application to Studs Only- For use as the base layer or as the face layer. 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. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick, 4 ft. wide, two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 4.
CERTAINTEED GYPSUM INC — 5/8" Easi-Lite Type X

4N. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Items 4 or 4I) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4 or 4I. Horizontal joints on the same side need not be staggered.

Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4 or 4I, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4 or 4I.
NATIONAL GYPSUM CO — Type FSW

4O. Wall and Partition Facings and Accessories* — (As an alternate to Items 4 through 4N) — Nominal 5/8 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 527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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
NO. 8882
03/01/2024
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME
FIRE RATING UL DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:
G107

# CODE INFORMATION

THE FOLLOWING CODES WERE USED AS THE BASIS OF DESIGN FOR THE PROTOTYPE SET. IT IS THE RESPONSIBILITY OF THE IMPLEMENTATION ARCHITECT TO ADAPT THESE DOCUMENTS TO THE REQUIREMENTS OF THE SPECIFIC SITE AND THE APPLICABLE CODES OF THE LOCAL JURISDICTION.

| | |
|---|---|
| BUILDING CODE: | 2021 INTERNATIONAL BUILDING CODE |
| PLUMBING CODE: | 2018 AR PLUMBING CODE BASED ON 2018 IPC |
| MECHANICAL CODE: | 2021 INTERNATIONAL MECHANICAL CODE |
| ELECTRICAL CODE: | 2020 NATIONAL ELECTRICAL CODE |
| FIRE/LIFE SAFETY CODE: | 2021 INTERNATIONAL FIRE CODE<br>2021 NFPA 72 LIFE SAFETY CODE WITH REVISIONS |
| ACCESSIBILITY CODE: | 2017 ADA STANDARDS FOR ACCESSIBLE DESIGN - DEPARTMENT OF JUSTICE |
| ENERGY CODE: | 2021 INTERNATIONAL ENERGY CONSERVATION CODE |
| GAS CODE: | 2018 INTERNATIONAL FUEL GAS CODE |
| SIGN CODE: | |
| PARKING SPACES: | ASSUMED - PARKING 1.0 SPACES PER GUESTROOM |

# OCCUPANCY CLASSIFICATION

IBC CHAPTER 3

## LEVEL 01

OCCUPANCY

ASSEMBLY ☐ A-1 ☒ A-2 ☒ A-3 ☐ A-4 ☐ A-5
BUSINESS ☒ B
RESIDENTIAL ☒ R-1 ☐ R-2 ☐ R-3 ☐ R-4

## LEVEL 02, 03

OCCUPANCY

ASSEMBLY ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
BUSINESS ☒ B
RESIDENTIAL ☒ R-1 ☐ R-2 ☐ R-3 ☐ R-4

## ALL LEVELS

ACCESSORY OCCUPANCIES

STORAGE ☐ S-1 MODERATE ☒ S-2 LOW ☐ HIGH-PILED
☐ PARKING GARAGE ☐ OPEN ☐ ENCLOSED ☐ REPAIR GARAGE

INCIDENTAL USES ( TABLE 509)

☒ ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER

☒ LAUNDRY ROOMS OVER 100 SQUARE FEET

SPECIAL USES ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427

SPECIAL PROVISIONS: ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8 ☐ 509.9

## LEVEL 1 ONLY

MIXED OCCUPANCY: ☐ NO ☒ YES SEPARATION: 1 HR EXCEPTION:

☒ INCIDENTAL USES SEPARATION (508.2.5)
ACCESSORY OCCUPANCY (508.2) - PANTRY

THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE
(SEE EXCEPTIONS)

☒ NON-SEPARATED USE (508.3) - B AND S-2

THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

☒ SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS

FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1. (508.4.2)

# ALLOWABLE BUILDING HEIGHT AND AREA

IBC TABLE 504.3; 504.4 & 506.2

BUILDING HEIGHT: 49' SPRINKLERED - SM (NFPA 13)
NUMBER OF STORIES: 3
CONSTRUCTION TYPE: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ☐ II-B ☐ III-B ☒ V-B

BUILDING
A-2; A-3; B; R-1; S-2
VB CONSTRUCTION
LEVEL 01 - (MIXED - OCCUPANCIES)
LEVEL 02, 03 - RESIDENTIAL - R-1,BUSINESS- B, STORAGE S2
(ASSUMPTION FULL SPRINKLERED BUILDING - MULTIPLE LEVELS (SM) 2 OR MORE STORIES ABOVE GRADE plane)

LEVEL 01
MIXED USE NON-SEPARATED OCCUPANCIES - A-2 & R - WITH A-2 DICTATING HEIGHTS AND AREA LIMITS.
ALLOWABLE AREA - 506.2 - AREA VB FOR A-2 = 18,000SF - PROVIDED - 2,059.00 SF
ALLOWABLE AREA - 506.2 - AREA VB FOR A-3 = 18,000SF - PROVIDED - 225.00 SF
ALLOWABLE AREA - 506.2 - AREA VB FOR R-1 = 21,000SF - PROVIDED - 3,981.00 SF
ALLOWABLE AREA - 506.2 - AREA VB FOR S-2 = 40,500SF - PROVIDED - 162.00 SF
ALLOWABLE AREA - 506.2 - AREA VB FOR B = 27,000SF - PROVIDED - 635.00 SF

LEVEL 02, 03
OCCUPANCY - R-1; S-2; B
ALLOWABLE AREA - 506.2 - AREA FOR VB FOR R-1=21,000SF - PROVIDED - 7,283.00SF
ALLOWABLE AREA - 506.2 - AREA FOR VB FOR S-2=40,500SF - PROVIDED - 306.00SF
ALLOWABLE AREA - 506.2 - AREA VB FOR B = 27,000SF - PROVIDED - 95.00 SF

BUILDING HEIGHT - 504.3 & 504.4 (BUILDING IS FULLY SPRINKLERED - IN GUESTROOMS - S

WITH A-2 AS THE MOST STRINGENT USING SPRINKLER INCREASE
A-2: MAXIMUM HEIGHT=60'-0" (STORIES - 2)
* A-2 IS ONLY ON LEVEL 01 & SEPARATED BY 1 HR FROM OTHER OCCUPANCIES ABOVE
R-1: MAXIMUM HEIGHT=60'-0' (STORIES - 3)
SEPARATION OF OCCUPANCY A-2 AT LEVEL 01 - 1 HR PER 508.4.3 & TABLE 508.4 - ALLOWS - 4 STORY BUILDING

# FIRE-RESISTANCE RATING REQUIREMENTS

IBC TABLE 601/602

| BUILDING ELEMENT | FIRE SEPARATION DISTANCE | RATING** REQ'D | RATING** PROVIDED* | REQ DESIGN # FOR RATED ASSEMBLIES |
|---|---|---|---|---|
| STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS AND TRUSSES | (FEET) - | 0 | 1 HR. | - U528 |
| BEARING WALLS - EXTERIOR | >=30 | 0 | 1 HR. | - U356 |
| BEARING WALLS - INTERIOR | - | 1 | 1 HR. | U311 |
| NONBEARING WALLS - EXTERIOR | - | 0 | 0 | - |
| NONBEARING WALLS - INTERIOR | - | 0 | 0 | - |
| FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBER | - | 0 | 1 HR. | - U528 |
| ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBER | - | 0 | 1 HR. | - U522 |
| ELEVATOR SHAFT WALL ASSEMBLY | - | 1 | 1 HR. | U905 |
| STAIR SHAFT WALL ASSEMBLY | - | 1 | 1 HR. | U305 |
| ELEVATOR,STAIR ROOF ASSEMBLY | - | 1 | 1 HR. | U505 |
| LINEN CHUTE | - | 1 | 1 HR. | - U428 |

* 0-4 hours or N/A - Not applicable

EXTERIOR WALLS (705)

PROJECTIONS FROM WALLS TYPE VB CONSTRUCTION
COMBUSTIBLE PROJECTIONS (705.2.3)
COMBUSTIBLE PROJECTIONS EXTENDING TO WITHIN 5 FEET OF THE LINE USED TO DETERMINE THE FIRE SEPARATION DISTANCE SHALL BE OF NOT LESS THAN 1-HR FIRE-RESISTANCE-RATED

MAXIMUM AREA OF EXTERIOR WALL OPENINGS
FIRE SEPARATION DISTANCE
20'-0" OR GREATER -- NO LIMIT (PER TABLE 705.8)
(PROVIDED ALL SPACES ARE SPRINKLERED)
(ALL BUILDING SEPARATIONS IN PROJECT < 25')

VERTICAL SEPARATIONS OF OPENINGS
NO APPLICABLE - 705.8.5
(EXCEPTION 2 -- BUILDING IS FULLY SPRINKLERED)

PARAPETS
NON-RATED (PER 705.11 -- EXCEPTIONS 1 (FSD <30')

FIRE BARRIERS (707)

SHAFT ENCLOSURES
1 HR (713.4)-U905

STAIRWAY EXIT ENCLOSURES
1 HR -U305

DWELLING UNITS/ SLEEPING UNITS
HORIZONTAL ASSEMBLIES - FLOOR AND ROOF - 1 HR - 711.2.4.3-P522
CORRIDORS - 0.5 HR (708.3 - EXCEPTION 1) (TABLE 1020.1)-U305
WALL SEPARATING UNITS -- 1 HR (420.2 & 712.3)-U344

# FIRE-RESISTANCE RATED CONSTRUCTION

IBC CHAPTER 4, 7 & 10

| BUILDING ELEMENT | FIRE SEPARATION | RATING** REQ'D | RATING** PROVIDED* | REQ DESIGN # FOR RATED ASSEMBLIES |
|---|---|---|---|---|
| SHAFT ENCLOSURES - EXIT (S713.4) | DIST | 1 | 1 | U305 |
| SHAFT ENCLOSURES - OTHER (S708.4) | | 1 | 1 | U905 |
| CORRIDOR SEPARATION (T1018.1) | | 1 | 1 | U305 |
| OCCUPANCY SEPARATION (T508.4) | | 1 | 1 | U311 |
| PARTY/FIRE WALL SEPARATION (T706.4) | | N/A | N/A | |
| SMOKE BARRIER SEPARATION (S710) | | 0 | 0 | |
| TENANT SEPARATION (S402.4.2.1) | | N/A | N/A | |
| INCIDENTAL USE SEPARATION (T509) | | 1 | 1 | |

* 0-4 hours or N/A - Not applicable

# FLAMESPREAD REQUIREMENTS

IBC CHAPTER 8

WALL AND CEILING FINISHES - TABLE 803.9
CLASS A: FLAME SPREAD 0-25; SMOKE-DEVELOPED 0-450
CLASS B: FLAME SPREAD 26-75; SMOKE-DEVELOPED 0-450
CLASS C: FLAME SPREAD 76-200; SMOKE-DEVELOPED 0-450

| GROUP | CLASS |
|---|---|
| EXIT ENCL/EXIT PASSAGEWAYS | B |
| CORRIDORS | B |
| ROOMS AND ENCL SPACES | C |

# ENERGY CODE

2021 INTERNATIONAL ENERGY CONSERVATION CODE

LOCATION ASSUMES A ZONE 4 - GROUP R - WOODFRAMED BUILDING

GROUP-R
BUILDING ENVELOPE REQUIREMENTS: FENESTRATION - TABLE C402.1.3
ROOFS
R-30C.I. -- TOTAL -- INSULATION ENTIRELY ABOVE DECK
JOIST FRAMING
-FLOORS R-30
WALLS (ABOVE GRADE)
WOOD FRAMES BUILDING -- R-20; 5-1/2" INSULATION - 2X6" WALL @ 16" O.C.
WALLS (BELOW GRADE)
WOOD BUILDING -- R-7.5CI
SLAB ON GRADE FLOORS
UNHEATED SLAB -- R-10 FOR 24"
OPAQUE DOORS
SWINGING -- U-0.61
BUILDING ENVELOPE REQUIREMENTS: FENESTRATION - TABLE C402.4
GLAZING
U-FACTOR - METAL FRAMING W/ THERMAL BREAK
CURTAIN WALL U FACTOR - =<0.46
ENTRANCE DOOR U-FACTOR -- 0.77
SHGC: PF <0.25 -- =<0.25 (GUESTROOM WINDOWS AND OTHER PUNCHED OPENINGS)
0.25<=PF<0.5 = <=.33 (NOT APPLICABLE TO THIS PROJECT)
PF>= .5 - =<0.40 (LEVEL 1 CURTAIN WALL AND ENTRY)

# FIRE PROTECTION SYSTEMS

IBC CHAPTER 9

SPRINKLER & STANDPIPES (905.3)

SPRINKLERS: ☐ NO ☒ YES ☐ PARTIAL

STANDPIPES: ☐ NO ☒ YES CLASS: ☒ I ☐ II ☐ III ☒ WET ☐ DRY 905.3.1 - EXCEPTION 1

FIRE PROTECTION: APPROVED AUTOMATIC SPRINKLER SYSTEM PER NFPA 13.

ROOMS CONTAINING FIRE PUMPS (913.2.1 - EXCEPTION 1) FIRE PUMPS SHALL BE SEPARATED FROM ALL OTHER AREAS OF THE BUILDING BY A 1-HOUR FIRE BARRIER (PROTOTYPE ASSUMES A FIRE PUMP IS NOT PROVIDED. IT IS THE IMPLEMENTATION ARCHITECT RESPONSIBILITY TO CONFIRM REQUIREMENTS BASED ON SITE LOCATION)

PORTABLE FIRE EXTINGUISHER SYSTEMS (906)
THROUGHOUT THE ENTIRE PROJECT A MULTIPURPOSE DRY-CHEMICAL PORTABLE FIRE EXTINGUISHER TYPE 4A 60BC, 10 LB. CAPACITY. SEE SHEET G0.31 THROUGH G0.34 FOR LOCATIONS OF EXTINGUISHERS.
REQUIRED 906.1 - CLASS 'A' -- 906.3.1
(CLASS 'A' FIRES) 906.3.1; TABLE 906.1
(LIGHT HAZARD OCCUPANCY)
QUANTITY PER FLOOR (2) BASED ON - TYPE 4A60BC - COVERAGE DISTANCE - 75'

FIRE ALARM & DETECTION SYSTEMS (907)
GROUP A: FIRE ALARM SYSTEM & SMOKE ALARMS 907.2.1
MANUAL FIRE ALARM NOT REQUIRED - GROUP A OCCUP. < 300;
GROUP B: FIRE ALARM SYSTEM & SMOKE ALARMS 907.2.2
MANUAL FIRE ALARM NOT REQUIRED - GROUP B COMBINED OCCUP. <= 500 OF ALL floor or;
GROUP B OCCUP. PER FLOOR IS < 100
GROUP R-1: FIRE ALARM SYSTEM & SMOKE ALARMS 907.2.8
MANUAL FIRE ALARM SYSTEM REQUIRED -- 907.2.8.1 -
EXCEPTION 2.3 -- NOT FEWER THAN ONE MANUAL FIRE ALARM BOX IS INSTALLED AT AN APPROVED LOCATION.
(AUTOMATIC SPRINKLER SYSTEM PROVIDED AND NOTIFICATION APPLIANCES WILL ACTIVATE UPON SPRINKLER WATER FLOW.)
AUTOMATIC SMOKE DETECTION SYSTEM REQUIRED -- 907.2.8.2

# PLUMBING SYSTEMS

IBC CHAPTER 29

PLUMBING CALCULATIONS
A-2 OCCUPANCY
WATER CLOSETS - MALE -- 1 PER 75
FEMALE -- 1 PER 75
LAVATORIES - MALE/ FEMALE 1 PER 200
DRINKING FOUNTAIN -- 1 PER 500
SERVICE SINK - 1
B OCCUPANCY
WATER CLOSETS MALE/ FEMALE - 1 PER 25 FOR THE FIRST 50
MALE/ FEMALE - 1 PER 50 FOR THE REMAINDER EXCEEDING 50
(EMPLOYEE OCCUPANT LOAD IS LESS THAN 15)
PER 2902.2 EXCEPTION 2 -- A SEPARATE FACILITY IS NOT REQUIRED.)
LAVATORIES MALE/ FEMALE - 1 PER 40 FOR THE FIRST 80
MALE/ FEMALE - 1 PER 80 FOR THE REMAINDER EXCEEDING 80
DRINKING FOUNTAIN -- 1 PER 100
SERVICE SINK - 1
R-1 OCCUPANCY
WC/ LAV/ BATHTUB OR SHOWER -- 1 PER GUESTROOM
S-2 OCCUPANCY
WATER CLOSETS MALE/ FEMALE - 1 PER 100
LAVATORIES MALE/ FEMALE - 1 PER 100
EMERGENCY SHOWERS -- (PER ISEA Z358.1)
EYEWASH -- (PER ISEA Z358.1)
DRINKING FOUNTAIN -- 1 PER 1,000
SERVICE SINK - 1

# ACCESSIBILITY

2017 AADAG

ACCESSIBILITY/ COMMUNICATION ROOM COUNTS ARE BASED ON A 95 HOTEL ROOM COUNT PER THE 2010 DEPARTMENT OF JUSTICE AADAG REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE IMPLEMENTATION ARCHITECT TO DETERMINE ACCESSIBLE AND HEARING-IMPAIRED ROOM COUNTS FOR A GIVEN PROJECT BASED ON ALL APPLICABLE FEDERAL, STATE & LOCAL ACCESSIBILITY REQUIREMENTS.°

ADA CHAPTER 2: SCOPING REQUIREMENTS AMERICANS WITH DISABILITIES...

Table 224.2 Guest Rooms with Mobility Features

| Total Number of Guest Rooms Provided | Minimum Number of Required Rooms Without Roll-in Showers | Minimum Number of Required Rooms With Roll-in Showers | Total Number of Required Rooms |
|---|---|---|---|
| 1 to 25 | 1 | 0 | 1 |
| 26 to 50 | 2 | 0 | 2 |
| 51 to 75 | 3 | 1 | 4 |
| 76 to 100 | 4 | 1 | 5 |
| 101 to 150 | 5 | 2 | 7 |
| 151 to 200 | 6 | 2 | 8 |
| 201 to 300 | 7 | 3 | 10 |
| 301 to 400 | 8 | 4 | 12 |
| 401 to 500 | 9 | | |
| 501 to 1000 | 2 percent of total | 1 percent of total | 3 percent of total |
| 1001 and over | 20, plus 1 for each 100, or fraction thereof, over 1000 | 10, plus 1 for each 100, or fraction thereof, over 1000 | 30, plus 2 for each 100, or fraction thereof, over 1000 |

224.3 BEDS. IN GUEST ROOMS HAVING MORE THAN 25 BEDS, 5 PERCENT MINIMUM OF THE BEDS SHALL HAVE CLEAR FLOOR SPACE COMPLYING WITH 806.2.3.
224.4 GUEST ROOMS WITH COMMUNICATION FEATURES. IN TRANSIENT LODGING FACILITIES, GUEST ROOMS WITH COMMUNICATION FEATURES COMPLYING WITH 806.3 SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 224.4.

TABLE 224.4 GUEST ROOMS WITH COMMUNICATION FEATURES

| TOTAL NUMBER OF GUEST ROOMS PROVIDED | MINIMUM NUMBER OF REQUIRED GUEST ROOMS WITH COMMUNICATION FEATURES |
|---|---|
| 2 to 25 | 2 |
| 26 to 50 | 4 |
| 51 to 75 | 7 |
| 76 to 100 | 9 |
| 101 to 150 | 12 |
| 151 to 200 | 14 |
| 201 to 300 | 17 |
| 301 to 400 | 20 |
| 401 to 500 | 22 |
| 501 to 1000 | 5 percent of total |
| 1001 and over | 50, plus 3 for each 100 over 1000 |

224.5 DISPERSION. GUEST ROOMS REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 806.2 AND GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES COMPLYING WITH 806.3 SHALL BE DISPERSED AMONG THE VARIOUS CLASSES OF GUEST ROOMS, AND SHALL PROVIDE CHOICES OF TYPES OF GUEST ROOMS, NUMBER OF BEDS, AND OTHER AMENITIES COMPARABLE TO THE CHOICES PROVIDED TO OTHER GUESTS. WHERE THE MINIMUM NUMBER OF GUEST ROOMS REQUIRED TO COMPLY WITH 806 IS NOT SUFFICIENT TO ALLOW FOR COMPLETE DISPERSION, GUEST ROOMS SHALL BE DISPERSED IN THE FOLLOWING PRIORITY: GUEST ROOM TYPE, NUMBER OF BEDS, AND AMENITIES. AT LEAST ONE GUEST ROOM REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 806.2 SHALL ALSO PROVIDE COMMUNICATION FEATURES COMPLYING WITH 806.3. NOT MORE THAN 10 PERCENT OF GUEST ROOMS REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 806.2 SHALL BE USED TO SATISFY THE MINIMUM NUMBER OF GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES COMPLYING WITH 806.3.

# MEANS OF EGRESS

IBC CHAPTER 10

SEE SHEET G0.31 FOR EGRESS CALCULATIONS
GENERAL MEANS OF EGRESS (1003)

CEILING HEIGHT — NOT LESS THAN 7'-6" - 1003.2

PROTRUDING OBJECTS — 80" MIN. HEADROOM -- 1003.3

OCCUPANT LOADS (TABLE 1004.5) — A-2 -- (LOBBY) 15 NET (UNCONCENTRATED-TABLES AND CHAIRS)
A-3 -- 50 GROSS (EXERCISE)
B -- 150 GROSS (BUSINESS AREAS)
S-2 - 300 GROSS
(ACCESSORY STORAGE AREAS, MECHANICAL; EQUIPMENT ROOMS)
(STORAGE; MECHANICAL/ ELECTRICAL/ MDF/ IDF/ HOUSEKEEPING)
R-1 -- (GUEST ROOMS) 200 GROSS (RESIDENTIAL)

DOOR ENCROACHMENT -- 1005.7.1 — 7" ENCROACHMENT INTO MEANS OF EGRESS WHEN FULLY OPEN DOOR IN ANY POSITION CANNOT REDUCE THE - REQUIRED EGRESS WIDTH BY MORE THAN HALF

DOORS SIZE -- 1010.1.1 — 32" CLEAR -- BETWEEN FACE OF DOOR AND STOP
(MAXIMUM WIDTH OF DOOR LEAF -- SWINGING -- 48")

LANDINGS
STAIRWAY DOORS - LOCKING (1010.2.7 EXCEPTION 1 AND 3)
EXIT DISCHARGE DOORS MAY BE LOCKED TO RE-ENTRY TO STAIR ENCLOSURE. FLOOR LEVELS DOORS MAY BE LOCKED TO RE-ENTRY OF THE FLOORS, FROM THE STAIR ENCLOSURE, PROVIDED THEY ARE OPEN-ABLE FROM THE EGRESS SIDE AND CAPABLE OF BEING UNLOCKED SIMULTANEOUSLY, WITHOUT UNLATCHING UPON A SIGNAL BY EMERGENCY PERSONNEL FROM A SINGLE LOCATION INSIDE THE MAIN ENTRANCE OF THE BUILDING.

STAIRWAYS - 1009
STAIRWAY LANDING (1011.6) — NOT LESS THAN WIDTH OF STAIR
DOES NOT HAVE TO EXCEED 48" ON STRAIGHT RUN
DOOR OPENING ONTO LANDING CANNOT REDUCE LANDING BY 1/2

**HANDRAILS**
HEIGHT (1014.2) — 34 TO 38"

OUTSIDE DIA. (1014.3.1) & 2010 AADAG — 1-1/4" -- 2"

STAIRWAY HEADROOM (1011.3) — 80" CLEAR

RISER HEIGHT/ TREAD DEPTH(1011.5.2) — RISER -- 7" MAX. 4" MIN.
TREAD -- 11" DEEP MIN

PANIC HARDWARE (1010.1.10) — -SHALL BE PROVIDED IN SPACES WITH OCCUPANCY LOAD OF 50 OR MORE IF A LATCH IS PROVIDED

-ELECTRICAL ROOMS WITH EQUIPMENT RATED 1,200 AMPS OR OVER 6'-0" WIDE

COMMON PATH OF TRAVEL (TABLE 1006.2.1) — A & R-1 -- 75'-0"
GROUP B & S 100'-0"

MEANS OF EGRESS SIZING — STAIRS - 0.3" PER OCCUPANT - (1005.3.1 )
(1005.3.1 EXCEPTION W/ SPRINKLER SYSTEM)
(MIN. WIDTH 44" -- 1009.1)

ALL OTHERS - 0.2" PER OCCUPANT
(1005.3.2 EXCEPTION W/ SPRINKLER SYSTEM)
(NOTE LOSS OF ANY MEANS OF EGRESS CANNOT REDUCE THE AVAILABLE CAPACITY BY MORE THAN 50%)

STAIRWAY LANDING -- (1011.6)
WIDTH OF LANDING = STAIR WIDTH BUT NOT GREATER THAN 4'-0 IN THE DIRECTION OF TRAVEL

DOORS
DOORS OPENING ONTO LANDING SHALL NOT REDUCE EGRESS WIDTH TO LESS THAN 0.5 THE REQUIRED WIDTH;
DOOR FULLY OPEN CANNOT REDUCE WIDTH BY MORE THAN 7"

HANDRAIL EXTENSION -- 1014.6
12" AT THE TOP OF THE STAIR WHEN NOT CONTINUOUS
1 TREAD DEPTH AT THE BOTTOM OF THE STAIR- WHEN NOT CONTINUOUS.

GUARDS 1015 — GUARDS REQUIRED - 1015.2
ALONG WALKING SURFACES 30" VERTICALLY ABOVE AN ADJACENT SURFACE WHERE MECHANICAL EQUIPMENT/APPLIANCES/FANS/ROOF HATCHES ARE WITHIN 10'-0" FROM THE ROOF EDGE - 1015.6
HEIGHT 42" -- 1015.3

EXIT OR EXIT ACCESS DOORWAYS (1015.1; TABLE 1006.2.1) — SPACES W/ ONE ACCESS DOORWAY
A & B -- MAX OCCUPANT LOAD -- 49
R - MAX OCCUPANT LOAD - 10
S -- MAX OCCUPANT LOAD - 29

COMMON PATH OF TRAVEL -- 1006.2.1 — A; R-1; S -- 75'-0"

EXIT AND EXIT ACCESS DOORWAYS FROM SPACES (1006.2.1.1) — 501-1,000 -- 3 -- EXITS MIN.
MORE THAN 1,000 -- 4 EXITS MIN.

EXIT TRAVEL DISTANCE (1017; TABLE 1017.2) — A, R & S -- 250'-0"
B -- 300'-0"
S-2 -- 400'-0"
(ALL DISTANCES W/ SPRINKLER SYSTEM)
ALL OCCUPANCIES: 200'-0" MAX EXIT TRAVEL DISTANCE PER IHG STds.

TWO OR MORE EXIT DOORWAYS (1007.1.1-EXCEPTION 2) — SEPARATION DISTANCE NOT LESS THAN 1/3" THE LENGTH OF THE MAXIMUM OVERALL DIMENSION OF ROOM (W/SPRINKLER SYSTEM)

CORRIDORS (1020.2; TABLE 1020.2) — A, B & S -- 0 HR;
R -- 0.5 HR (W/ SPRINKLER SYSTEM)

EGRESS WIDTH (1020.3; TABLE 1020.3) — MINIMUM REQUIRED EGRESS WIDTH
44" -- ALL FACILITIES UNLESS NOTED BELOW
24" -- ACCESS/ UTILIZATION TO MEP SYSTEMS
36" -- FOR OCCUPANCIES LESS THAN 50

DEAD END CORRIDORS (1020.5) — MAXIMUM DEAD END CORRIDOR:
A -- 20'-0"
B; S; R-1 -- 50'-0"

MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORIES (1006.3.3) — 1-500 OCCUPANTS - 2 EXITS REQUIRED
501 -- 1,000 OCCUPANTS -- 3 EXITS REQUIRED
GREATER THAN 1,000 -- 4 EXITS REQUIRED

EXIT DISCHARGE (1028.2) — EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER A BUILDING. THE COMBINED USE OF EXCEPTION 1 AND 2 SHALL NOT EXCEED 50% OF THE NUMBER AND MINIMUM WIDTH OR REQUIRED CAPACITY OF THE REQUIRED EXITS.


**DESIGN GROUP, LLC.**

1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765

E-Mail: nkumar@designgroupmemphis.com


OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140,
OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 8882
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME
CODE SUMMARY

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:
G108

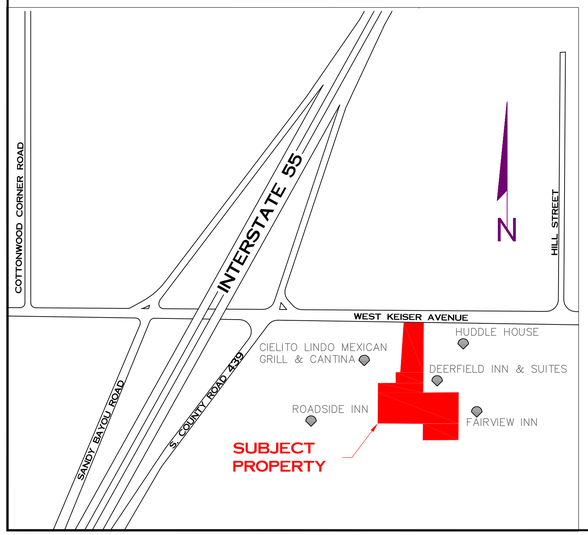
# HOME INN AND SUITES
# SITE DEVELOPMENT PLAN

## W. KEISER AVENUE
## (TRACT WEST OF DEERFIELD INN)

OSCEOLA, ARKANSAS

JANUARY 2ND, 2024

VICINITY MAP N.T.S.




Know what's **below.**
**Call** before you dig.

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS IS BASED ON LOCATES OF ABOVE GROUND REFERENCES AND INFORMATION SUPPLIED BY THE OSCEOLA UTILITY COMPANIES. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ANY OTHER FACILITIES NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION OF ALL FACILITIES BEFORE BEGINNING WORK.

INDEX TO SHEETS


1 OF 6 – TITLE SHEET/INDEX
2 OF 6 – GRADING AND DRAINAGE PLAN
3 OF 6 – EROSION CONTROL PLAN
4 OF 6 – EXISTING UTILITIES
5 OF 6 – LANDSCAPING
6 OF 6 – DETAIL SHEET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McALISTER ENGINEERING, PLLC
No. 692
ARKANSAS

STATE OF ARKANSAS
LICENSED
PROFESSIONAL ENGINEER
No. 8395
CLARENCE W. McALISTER

| NUMBER | DATE | REVISION | BY |
|---|---|---|---|
| 1 | | | |

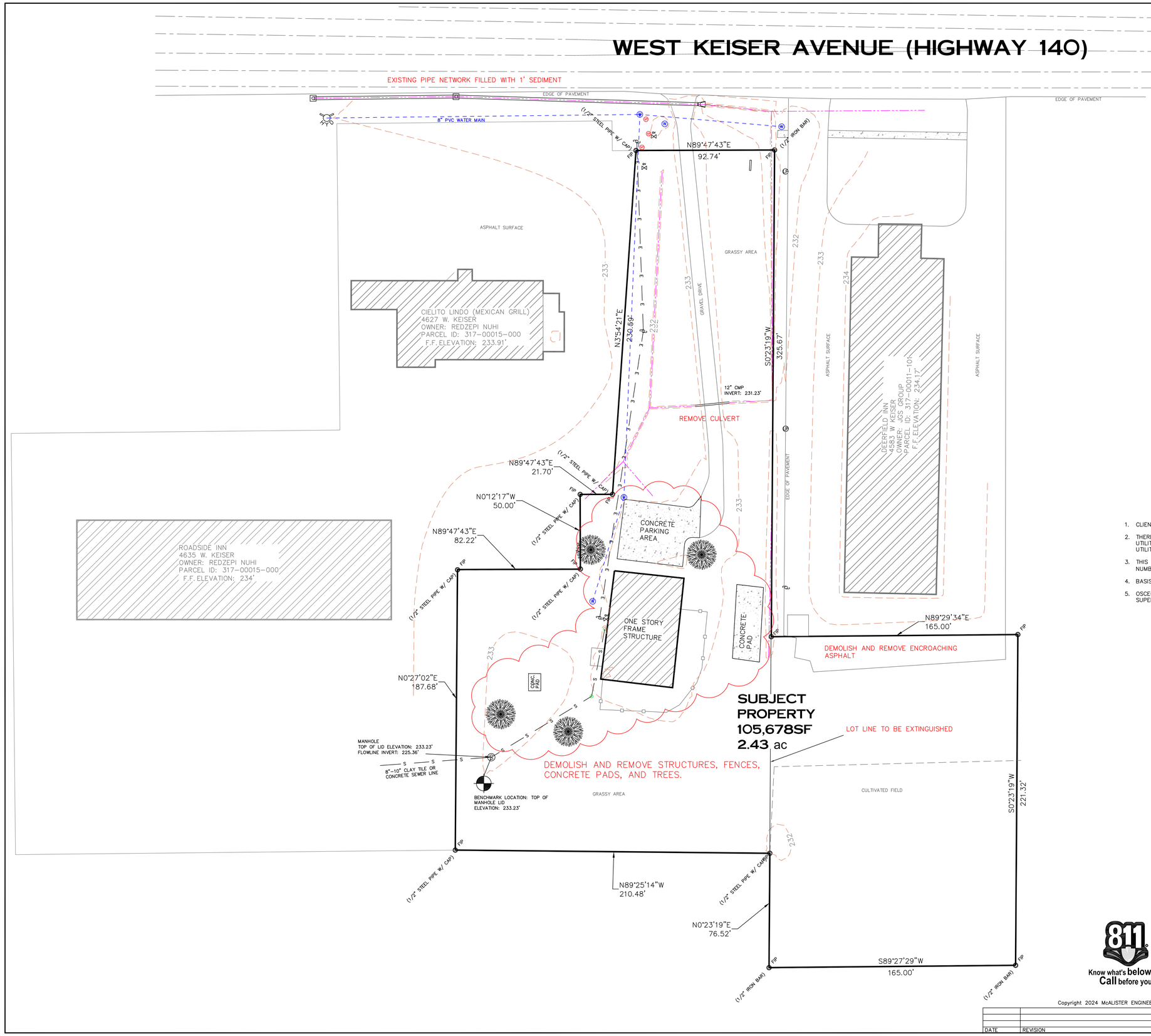
HOME INN AND SUITES

OSCEOLA, ARKANSAS


McALISTER ENGINEERING, PLLC
CIVIL ENGINEERING AND LAND SURVEYING
4508 STADIUM BLVD STE D
JONESBORO, AR 72404
870-931-1420

CLARENCE W. "MAC" McALISTER, PE, PS


| | |
|---|---|
| DRAWN BY: TM | CHECKED BY: CWM |
| SCALE: 1" = 30' | DATE: 02JAN24 |
| CAD FILE INDEPENDENT HOTEL | |
| DWG REF. 05–12N–10E | |
| JOB NO. 23132499 | SHEET 1/6 |
| FILE: PROJECTS 2023 | |




N

GRID NORTH
BASED ON GPS OBSERVATIONS
ARKANSAS STATE PLANE – NORTH ZONE

30 0 15 30 60

( IN FEET )
1 inch = 30 ft.

## LEGEND

| | |
|---|---|
| SIP | SET IRON PIN 1/2" REBAR W/ 1303 CAP |
| FIP | FOUND IRON PIN |
| | CALCULATED POINT |
| | LIGHT POLE |
| | SEWER MANHOLE |
| | UNDERGROUND UTILITY MARKER |
| | WATER VALVE/METER |
| | GAS VALVE/METER |
| | UTILITY POLE |
| | PVC CLEANOUT |
| | CONCRETE SURFACE |
| | DITCH LINE |
| | FENCE LINE |
| E | OVERHEAD ELECTRIC |
| | GAS LINE |
| S | LOCATED SEWER LINE |
| | WATER LINE |
| | 1' INTERVAL EXISTING CONTOURS |
| | SUBSTANTIAL TREE TO BE REMOVED |

NOTES:

1. CLIENT: JAS AND GURU LLC
2. THERE WERE NO SUBSURFACE INVESTIGATIONS MADE, UNDERGROUND REFERENCES ARE MADE FROM ABOVE GROUND UTILITY MARKERS OBSERVED IN THE PROCESS OF THE FIELD WORK AND BY INFORMATION SUPPLIED BY OSCEOLA UTILITY COMPANIES.
3. THIS PROPERTY SHOWN HEREON IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON FEMA FIRM MAP NUMBER 05093C0425 E, EFFECTIVE DATE 6/18/2010
4. BASIS OF BEARING –GPS OBSERVATION, NAD83, THIRD ORDER CLASS ARKANSAS SPC NORTH ZONE.
5. OSCEOLA UTILITY CONTACTS: WATER: 870-563-6421 SEWER: 870-549-2021 POWER: 870-563-5245 SUPERINTENDENT: TIMMY JONES – 870-622-5069

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LICENSED PROFESSIONAL ENGINEER
No. 8395
CLARENCE W. McALISTER

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# EXISTING CONDITION/ DEMO

HOME INN AND SUITES
WEST KEISER AVENUE
OSCEOLA, ARKANSAS

McALISTER ENGINEERING, PLLC
CIVIL ENGINEERING AND LAND SURVEYING
4508 STADIUM BLVD, STE D, JONESBORO, AR 72404
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| | |
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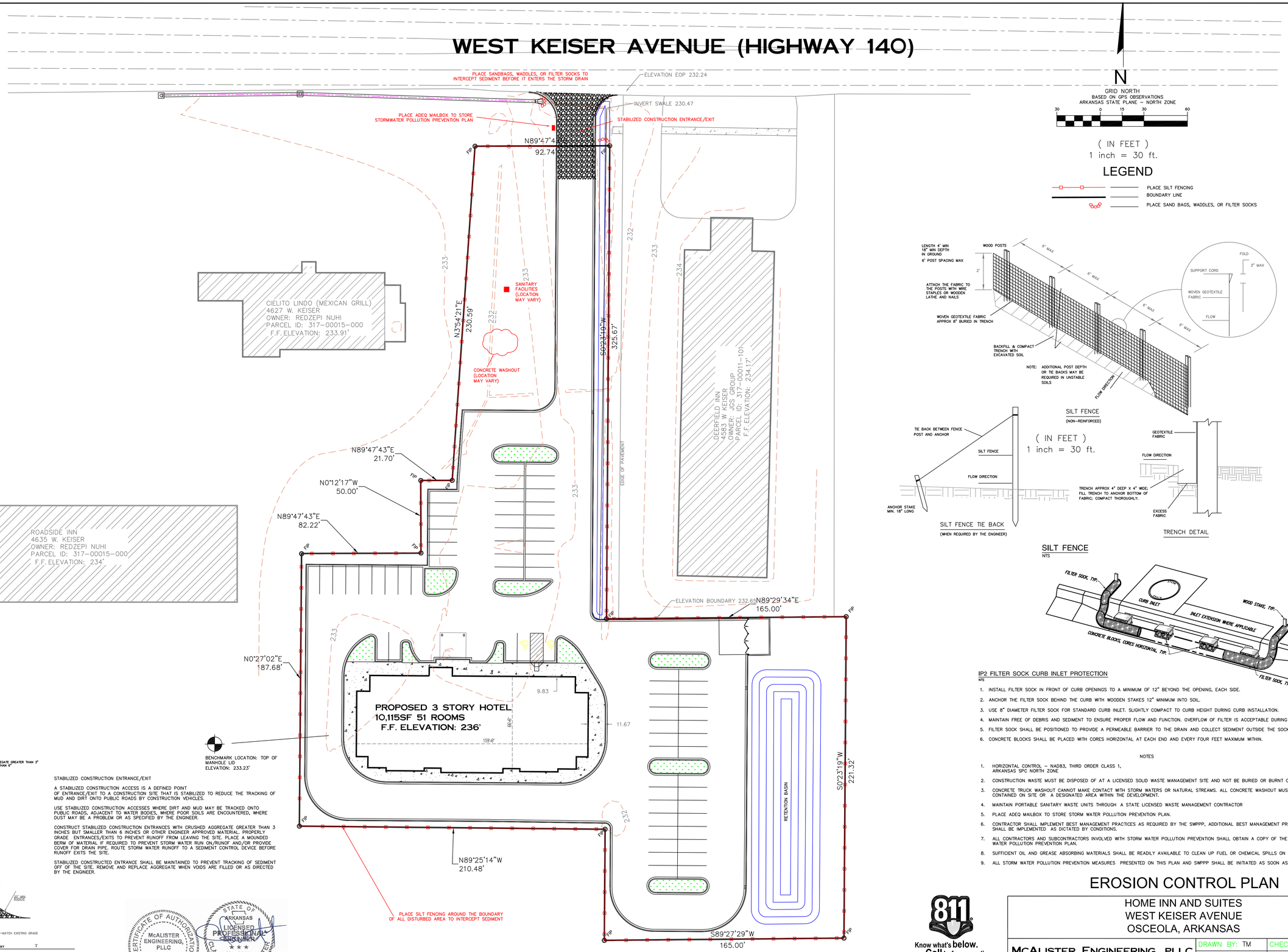
| DRAWN BY: TM | CHECKED BY: CWM |
| SCALE: 1" – 30' | PROJECT |
| DATE: 2JAN23 | FILE PROJECTS 2023 |
| DWG REF. 05-12N-10E | |
| JOB NO. 23132499 | SHEET 2 / 6 |

CLARENCE W. "MAC" McALISTER, PE, PS

# WEST KEISER AVENUE (HIGHWAY 140)







SILT FENCE

(NON-REINFORCED)




SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

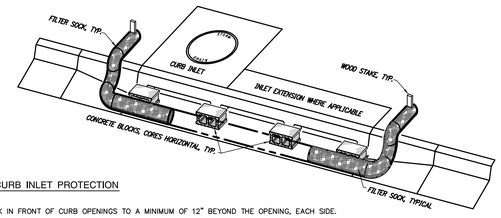
( IN FEET )
1 inch = 30 ft.




TRENCH DETAIL

## SILT FENCE

NTS



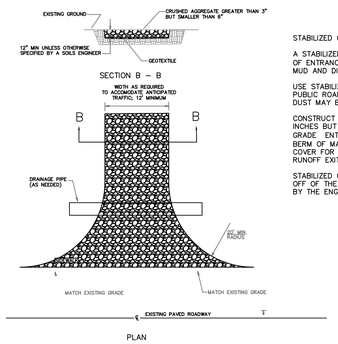

## IP2 FILTER SOCK CURB INLET PROTECTION

NTS

1. INSTALL FILTER SOCK IN FRONT OF CURB OPENINGS TO A MINIMUM OF 12" BEYOND THE OPENING, EACH SIDE.
2. ANCHOR THE FILTER SOCK BEHIND THE CURB WITH WOODEN STAKES 12" MINIMUM INTO SOIL.
3. USE 8" DIAMETER FILTER SOCK FOR STANDARD CURB INLET. SLIGHTLY COMPACT TO CURB HEIGHT DURING CURB INSTALLATION.
4. MAINTAIN FREE OF DEBRIS AND SEDIMENT TO ENSURE PROPER FLOW AND FUNCTION. OVERFLOW OF FILTER IS ACCEPTABLE DURING SEVERE STORM EVENTS.
5. FILTER SOCK SHALL BE POSITIONED TO PROVIDE A PERMEABLE BARRIER TO THE DRAIN AND COLLECT SEDIMENT OUTSIDE THE SOCK.
6. CONCRETE BLOCKS SHALL BE PLACED WITH CORES HORIZONTAL AT EACH END AND EVERY FOUR FEET MAXIMUM WITHIN.

NOTES

1. HORIZONTAL CONTROL – NAD83, THIRD ORDER CLASS 1, ARKANSAS SPC NORTH ZONE
2. CONSTRUCTION WASTE MUST BE DISPOSED OF AT A LICENSED SOLID WASTE MANAGEMENT SITE AND NOT BE BURIED OR BURNT ON SITE.
3. CONCRETE TRUCK WASHOUT CANNOT MAKE CONTACT WITH STORM WATERS OR NATURAL STREAMS. ALL CONCRETE WASHOUT MUST BE CONTAINED ON SITE OR A DESIGNATED AREA WITHIN THE DEVELOPMENT.
4. MAINTAIN PORTABLE SANITARY WASTE UNITS THROUGH A STATE LICENSED WASTE MANAGEMENT CONTRACTOR
5. PLACE ADEQ MAILBOX TO STORE STORM WATER POLLUTION PREVENTION PLAN.
6. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP, ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS.
7. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN.
8. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS SHALL BE READILY AVAILABLE TO CLEAN UP FUEL OR CHEMICAL SPILLS ON SITE.
9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN AND SWPPP SHALL BE INITIATED AS SOON AS POSSIBLE.




PLAN

STABILIZED CONSTRUCTION ENTRANCE/EXIT

STABILIZED CONSTRUCTION ENTRANCE/EXIT

A STABILIZED CONSTRUCTION ACCESS IS A DEFINED POINT OF ENTRANCE/EXIT TO A CONSTRUCTION SITE THAT IS STABILIZED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

USE STABILIZED CONSTRUCTION ACCESSES WHERE DIRT AND MUD MAY BE TRACKED ONTO PUBLIC ROADS, ADJACENT TO WATER BODIES, WHERE POOR SOILS ARE ENCOUNTERED, WHERE DUST MAY BE A PROBLEM OR AS SPECIFIED BY THE ENGINEER.

CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES WITH CRUSHED AGGREGATE GREATER THAN 3 INCHES BUT SMALLER THAN 6 INCHES OR OTHER ENGINEER APPROVED MATERIAL. PROPERLY GRADE ENTRANCES/EXITS TO PREVENT RUNOFF FROM LEAVING THE SITE. PLACE A MOUNDED BERM OF MATERIAL IF REQUIRED TO PREVENT STORM WATER RUN ON/RUNOF AND/OR PROVIDE COVER FOR DRAIN PIPE. ROUTE STORM WATER RUNOFF TO A SEDIMENT CONTROL DEVICE BEFORE RUNOFF EXITS THE SITE.

STABILIZED CONSTRUCTED ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT OFF OF THE SITE. REMOVE AND REPLACE AGGREGATE WHEN VOIDS ARE FILLED OR AS DIRECTED BY THE ENGINEER.

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# EROSION CONTROL PLAN

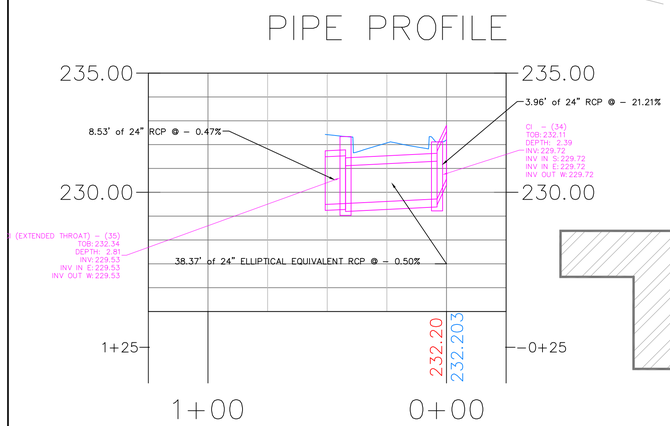
HOME INN AND SUITES
WEST KEISER AVENUE
OSCEOLA, ARKANSAS

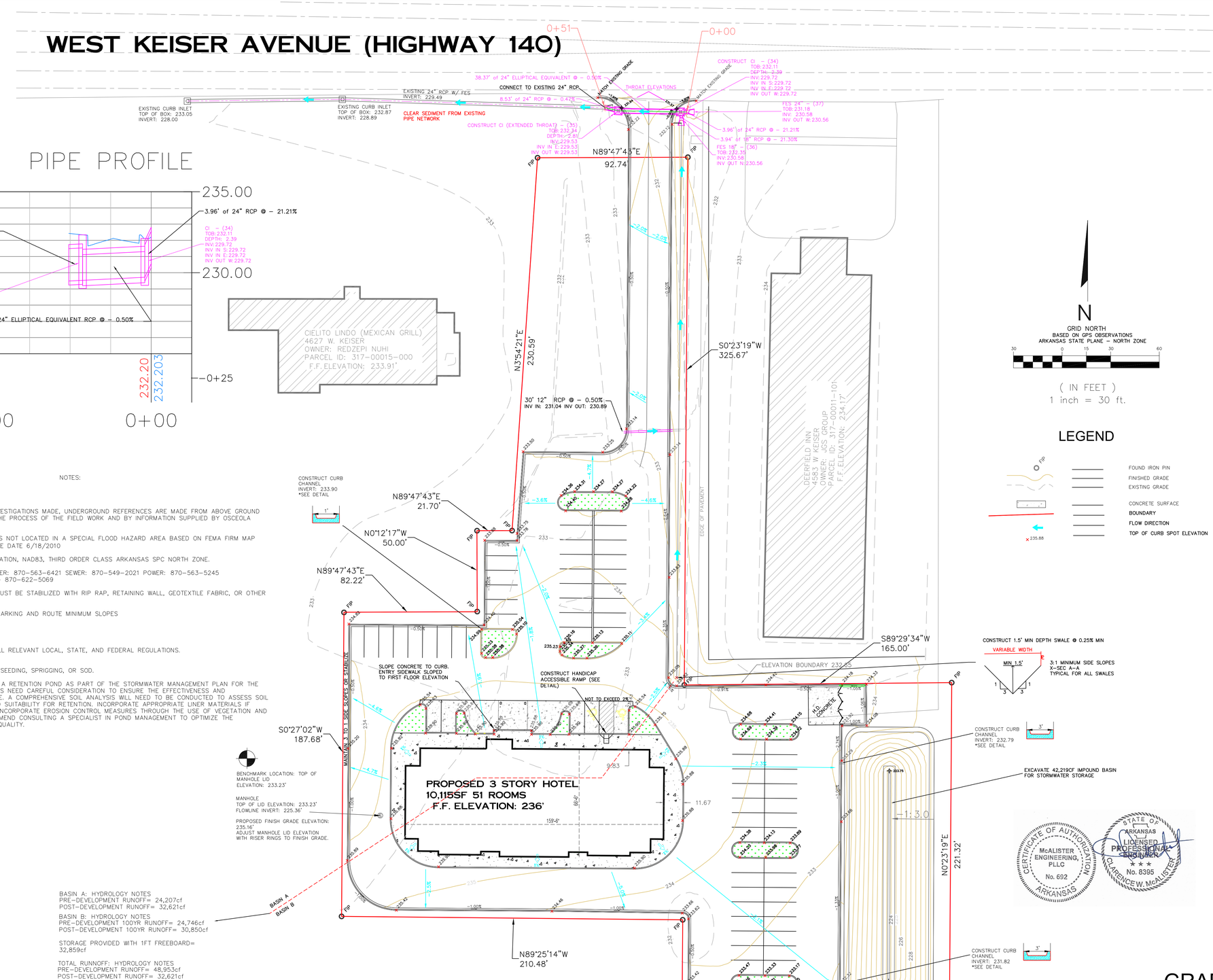
McALISTER ENGINEERING, PLLC
CIVIL ENGINEERING AND LAND SURVEYING
4508 STADIUM BLVD, STE D, JONESBORO, AR 72404
870-931-1420

CLARENCE W. "MAC" McALISTER, PE, PS

| | |
|---|---|
| DRAWN BY: TM | CHECKED BY: CWM |
| SCALE: 1" – 30' | PROJECT |
| DATE: 2JAN23 | FILE PROJECTS 2023 |
| DWG REF. 05-12N-10E | |
| JOB NO. 23132499 | SHEET 3 / 6 |

# WEST KEISER AVENUE (HIGHWAY 140)



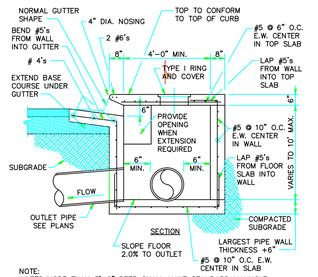







## LEGEND

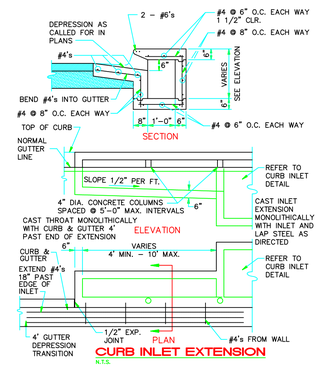
- FIP — FOUND IRON PIN
- FINISHED GRADE
- EXISTING GRADE
- CONCRETE SURFACE
- BOUNDARY
- FLOW DIRECTION
- x 235.88 — TOP OF CURB SPOT ELEVATION



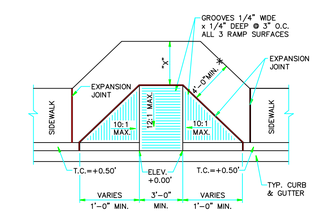

NOTE:
INLETS MORE THAN 3'-0" DEEP SHALL HAVE STANDARD MANHOLE STEPS PLACED AT 15" O.C. - MANHOLE FRAME AND COVER SHALL BE PLACED ADJACENT TO THE WALL WITH THE STEPS.

AS APPROVED BY ENGINEER, WALLS MAY BE 8" BLOCK WITH 1/2" MORTAR. FILL CELLS WITH CONCRETE AND WITH #4 @ 16" O.C. MINIMUM DISTANCE FROM WALL TO PIPE SHALL BE 8" IF BLOCK WALLS ARE CONSTRUCTED.

**SECTION - TYPICAL CURB INLET - TYPE "A"**
SCALE: 1/2" = 1'-0"




**CURB INLET EXTENSION**
N.T.S.




**TYPE "A" ACCESS RAMP**
N.T.S. (FLARED SIDES)

*NOTE:
IF "X" IS LESS THAN 48", AS APPROVED BY THE CITY, THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 12:1.

NOTES:

1. CLIENT: JAS AND GURU LLC
2. THERE WERE NO SUBSURFACE INVESTIGATIONS MADE, UNDERGROUND REFERENCES ARE MADE FROM ABOVE GROUND UTILITY MARKERS OBSERVED IN THE PROCESS OF THE FIELD WORK AND BY INFORMATION SUPPLIED BY OSCEOLA UTILITY COMPANIES.
3. THIS PROPERTY SHOWN HEREON IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON FEMA FIRM MAP NUMBER 05093C0425 E, EFFECTIVE DATE 6/18/2010
4. BASIS OF BEARING -GPS OBSERVATION, NAD83, THIRD ORDER CLASS ARKANSAS SPC NORTH ZONE.
5. OSCEOLA UTILITY CONTACTS: WATER: 870-563-6421 SEWER: 870-549-2021 POWER: 870-563-5245 SUPERINTENDENT: TIMMY JONES - 870-622-5069
6. SLOPES STEEPER THAN 3 TO 1 MUST BE STABILIZED WITH RIP RAP, RETAINING WALL, GEOTEXTILE FABRIC, OR OTHER APPROVED METHOD.
7. (ADA COMPLIANCE) ACCESSIBLE PARKING AND ROUTE MINIMUM SLOPES
   CROSS SLOPES 1:50 (2%)
   ACCESSIBLE ROUTE 1:20 (5%)
   RAMPS 1:12 (1"/1')
8. CONTRACTOR TO COMPLY WITH ALL RELEVANT LOCAL, STATE, AND FEDERAL REGULATIONS.
9. STABILIZE ALL CUT SLOPES WITH SEEDING, SPRIGGING, OR SOD.
10. THE PROPOSED DESIGN INCLUDES A RETENTION POND AS PART OF THE STORMWATER MANAGEMENT PLAN FOR THE DEVELOPMENT. MULTIPLE FACTORS NEED CAREFUL CONSIDERATION TO ENSURE THE EFFECTIVENESS AND SUSTAINABILITY OF THIS FEATURE. A COMPREHENSIVE SOIL ANALYSIS WILL NEED TO BE CONDUCTED TO ASSESS SOIL PERMEABILITY, COMPACTION, AND SUITABILITY FOR RETENTION. INCORPORATE APPROPRIATE LINER MATERIALS IF NEEDED TO PREVENT SEEPAGE. INCORPORATE EROSION CONTROL MEASURES THROUGH THE USE OF VEGETATION AND NATURAL MATERIALS. WE RECOMMEND CONSULTING A SPECIALIST IN POND MANAGEMENT TO OPTIMIZE THE FUNCTIONALITY AND AESTHETIC QUALITY.

BASIN A: HYDROLOGY NOTES
PRE-DEVELOPMENT RUNOFF= 24,207cf
POST-DEVELOPMENT RUNOFF= 32,621cf

BASIN B: HYDROLOGY NOTES
PRE-DEVELOPMENT 100YR RUNOFF= 24,746cf
POST-DEVELOPMENT 100YR RUNOFF= 30,850cf

STORAGE PROVIDED WITH 1FT FREEBOARD= 32,859cf

TOTAL RUNNOFF: HYDROLOGY NOTES
PRE-DEVELOPMENT RUNOFF= 48,953cf
POST-DEVELOPMENT RUNOFF= 32,621cf

## Cut/Fill Summary

| Name | Cut Factor | Fill Factor | 2d Area | Cut | Fill | Net |
|---|---|---|---|---|---|---|
| DEV VOL | 1.000 | 1.000 | 99325.78 Sq. Ft. | 1431.55 Cu. Yd. | 4606.42 Cu. Yd. | 3174.87 Cu. Yd.<Fill> |
| Totals | | | 99325.78 Sq. Ft. | 1431.55 Cu. Yd. | 4606.42 Cu. Yd. | 3174.87 Cu. Yd.<Fill> |

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 8395
CLARENCE W. McALISTER

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| DATE | REVISION | BY |
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| | | |
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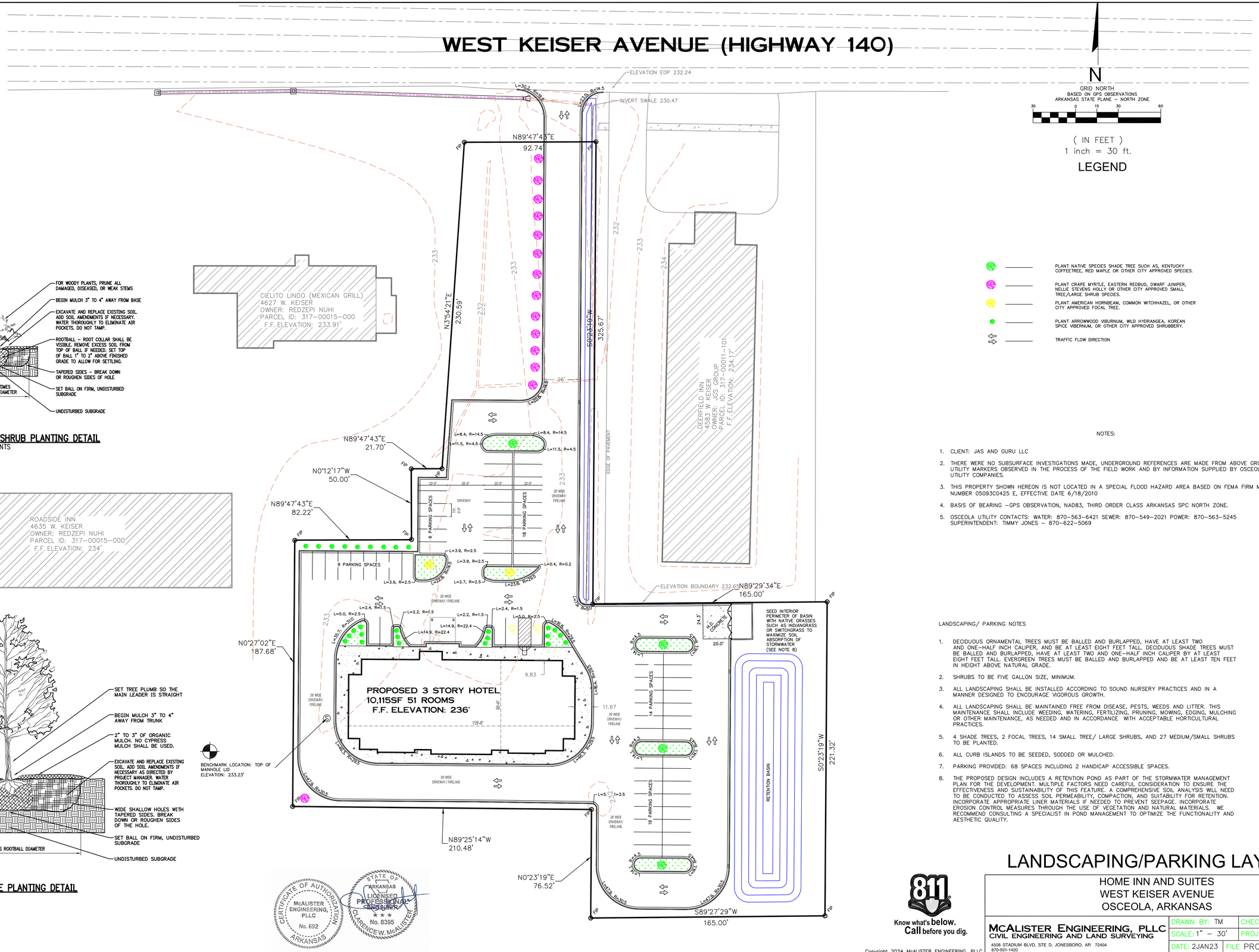
# GRADING AND DRAINAGE PLAN

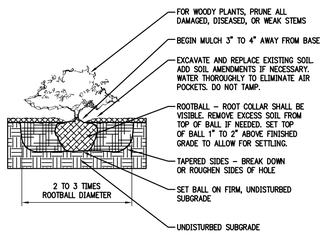
HOME INN AND SUITES
WEST KEISER AVENUE
OSCEOLA, ARKANSAS

McALISTER ENGINEERING, PLLC
CIVIL ENGINEERING AND LAND SURVEYING
4508 STADIUM BLVD. STE D, JONESBORO, AR 72404
870-931-1420
CLARENCE W. "MAC" McALISTER, PE, PS

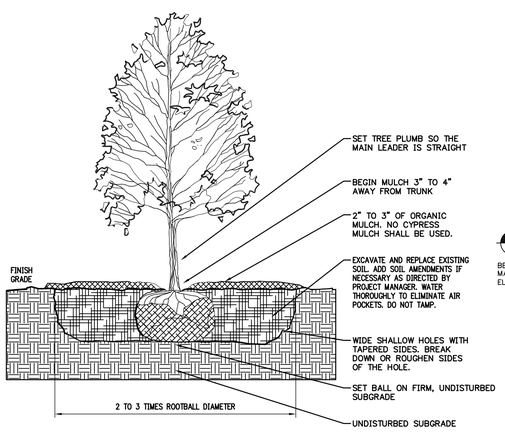
| | |
|---|---|
| DRAWN BY: TM | CHECKED BY: CWM |
| SCALE: 1" - 30' | PROJECT 23130176 |
| DATE: 09FEB24 | FILE LOT1COMMERCESQR |
| DWG REF. 04E-14N-35 | |
| JOB NO. 23130176 | SHEET 4 / 6 |
| 500-14N-04E-0-35-102-16-1303 | |

# WEST KEISER AVENUE (HIGHWAY 140)




## SHRUB PLANTING DETAIL
NTS




## TREE PLANTING DETAIL
NTS

N

GRID NORTH
BASED ON GPS OBSERVATIONS
ARKANSAS STATE PLANE – NORTH ZONE

30 0 15 30 60

( IN FEET )
1 inch = 30 ft.

## LEGEND

- PLANT NATIVE SPECIES SHADE TREE SUCH AS, KENTUCKY COFFEETREE, RED MAPLE OR OTHER CITY APPROVED SPECIES.
- PLANT CRAPE MYRTLE, EASTERN REDBUD, DWARF JUNIPER, NELLIE STEVENS HOLLY OR OTHER CITY APPROVED SMALL TREE/LARGE SHRUB SPECIES.
- PLANT AMERICAN HORNBEAM, COMMON WITCHHAZEL, OR OTHER CITY APPROVED FOCAL TREE.
- PLANT ARROWWOOD VIBURNUM, WILD HYDRANGEA, KOREAN SPICE VIBERNUM, OR OTHER CITY APPROVED SHRUBBERY.
- TRAFFIC FLOW DIRECTION

NOTES:

1. CLIENT: JAS AND GURU LLC
2. THERE WERE NO SUBSURFACE INVESTIGATIONS MADE, UNDERGROUND REFERENCES ARE MADE FROM ABOVE GROUND UTILITY MARKERS OBSERVED IN THE PROCESS OF THE FIELD WORK AND BY INFORMATION SUPPLIED BY OSCEOLA UTILITY COMPANIES.
3. THIS PROPERTY SHOWN HEREON IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON FEMA FIRM MAP NUMBER 05093C0425 E, EFFECTIVE DATE 6/18/2010
4. BASIS OF BEARING –GPS OBSERVATION, NAD83, THIRD ORDER CLASS ARKANSAS SPC NORTH ZONE.
5. OSCEOLA UTILITY CONTACTS: WATER: 870-563-6421 SEWER: 870-549-2021 POWER: 870-563-5245 SUPERINTENDENT: TIMMY JONES – 870-622-5069

LANDSCAPING/ PARKING NOTES

1. DECIDUOUS ORNAMENTAL TREES MUST BE BALLED AND BURLAPPED, HAVE AT LEAST TWO AND ONE-HALF INCH CALIPER, AND BE AT LEAST EIGHT FEET TALL. DECIDUOUS SHADE TREES MUST BE BALLED AND BURLAPPED, HAVE AT LEAST TWO AND ONE-HALF INCH CALIPER BY AT LEAST EIGHT FEET TALL. EVERGREEN TREES MUST BE BALLED AND BURLAPPED AND BE AT LEAST TEN FEET IN HEIGHT ABOVE NATURAL GRADE.
2. SHRUBS TO BE FIVE GALLON SIZE, MINIMUM.
3. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES AND IN A MANNER DESIGNED TO ENCOURAGE VIGOROUS GROWTH.
4. ALL LANDSCAPING SHALL BE MAINTAINED FREE FROM DISEASE, PESTS, WEEDS AND LITTER. THIS MAINTENANCE SHALL INCLUDE WEEDING, WATERING, FERTILIZING, PRUNING, MOWING, EDGING, MULCHING OR OTHER MAINTENANCE, AS NEEDED AND IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES.
5. 4 SHADE TREES, 2 FOCAL TREES, 14 SMALL TREE/ LARGE SHRUBS, AND 27 MEDIUM/SMALL SHRUBS TO BE PLANTED.
6. ALL CURB ISLANDS TO BE SEEDED, SODDED OR MULCHED.
7. PARKING PROVIDED: 68 SPACES INCLUDING 2 HANDICAP ACCESSIBLE SPACES.
8. THE PROPOSED DESIGN INCLUDES A RETENTION POND AS PART OF THE STORMWATER MANAGEMENT PLAN FOR THE DEVELOPMENT. MULTIPLE FACTORS NEED CAREFUL CONSIDERATION TO ENSURE THE EFFECTIVENESS AND SUSTAINABILITY OF THIS FEATURE. A COMPREHENSIVE SOIL ANALYSIS WILL NEED TO BE CONDUCTED TO ASSESS SOIL PERMEABILITY, COMPACTION, AND SUITABILITY FOR RETENTION. INCORPORATE APPROPRIATE LINER MATERIALS IF NEEDED TO PREVENT SEEPAGE. INCORPORATE EROSION CONTROL MEASURES THROUGH THE USE OF VEGETATION AND NATURAL MATERIALS. WE RECOMMEND CONSULTING A SPECIALIST IN POND MANAGEMENT TO OPTIMIZE THE FUNCTIONALITY AND AESTHETIC QUALITY.

CERTIFICATE OF AUTHORIZATION
McALISTER ENGINEERING, PLLC
No. 692
ARKANSAS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
CLARENCE W. McALISTER
No. 8395

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| DATE | REVISION | BY |
|---|---|---|
| | | |

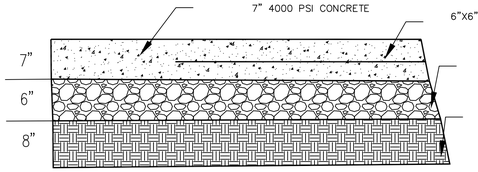
# LANDSCAPING/PARKING LAYOUT

HOME INN AND SUITES
WEST KEISER AVENUE
OSCEOLA, ARKANSAS

McALISTER ENGINEERING, PLLC
CIVIL ENGINEERING AND LAND SURVEYING
4508 STADIUM BLVD, STE D, JONESBORO, AR 72404
870-931-1420

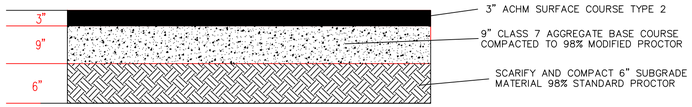
CLARENCE W. "MAC" McALISTER, PE, PS

| | |
|---|---|
| DRAWN BY: TM | CHECKED BY: CWM |
| SCALE: 1" – 30' | PROJECT |
| DATE: 2JAN23 | FILE PROJECTS 2023 |
| DWG REF: 05-12N-10E | |
| JOB NO. 23132499 | SHEET 5 / 6 |



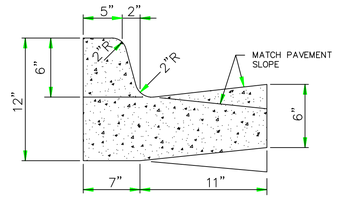

## SECTION - HD CONCRETE PAVEMENT

N.T.S.



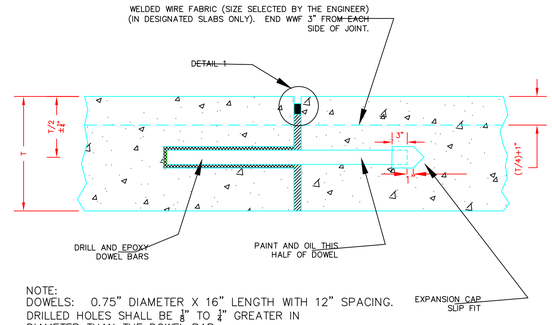

## SECTION - HEAVY DUTY ASPHALT

NTS




## BARRIER CURB

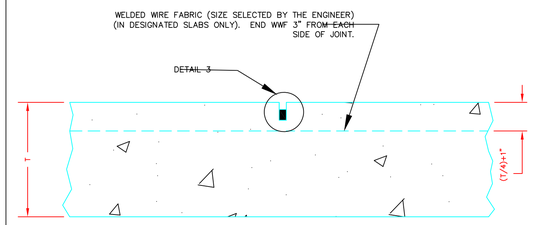
NTS




NOTE:
DOWELS: 0.75" DIAMETER X 16" LENGTH WITH 12" SPACING. DRILLED HOLES SHALL BE ⅛" TO ¼" GREATER IN DIAMETER THAN THE DOWEL BAR.

## EXPANSION JOINT TYPE A - DOWELED

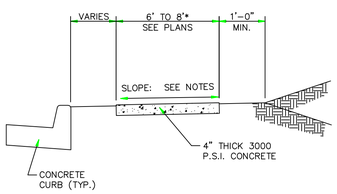
N.T.S.




NOTE:
DOWELS: 0.75" DIAMETER X 16" LENGTH WITH 12" SPACING.

## CONTRACTION JOINT TYPE H - DUMMY

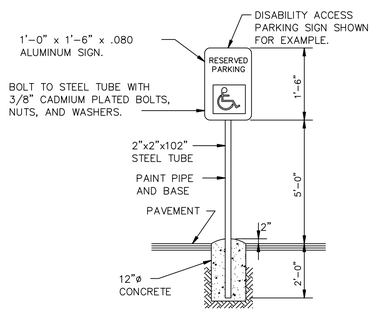
N.T.S.




## TYPICAL SECTION - SIDEWALK

N.T.S.

* MINIMUM WIDTH FOR SIDEWALK ADJACENT TO CURB IS 5' FOR CITY STREETS AND 6' FOR STATE OR U.S. HIGHWAYS.

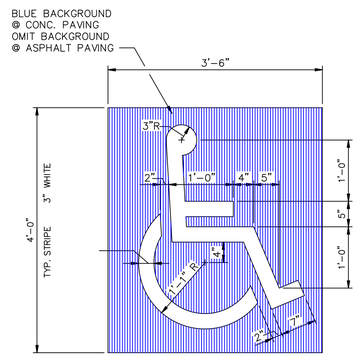



## HANDICAP PARKING SIGN

N.T.S.

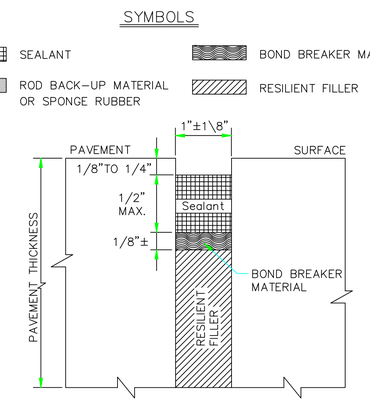
NOTE:

ALL SIGNS SHALL CONFORM TO MUTCD AND SHALL BE HIGH INTENSITY.




## PARKING STALL SYMBOL

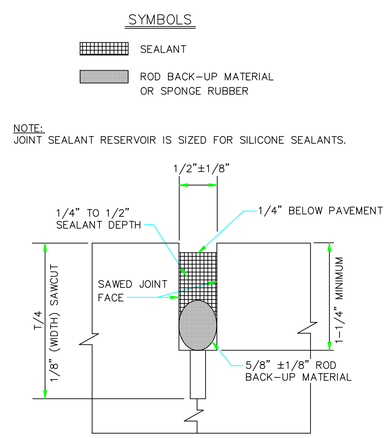
N.T.S.




NOTE:
JOINT SEALANT RESERVOIR IS SIZED FOR SILICONE SEALANTS.

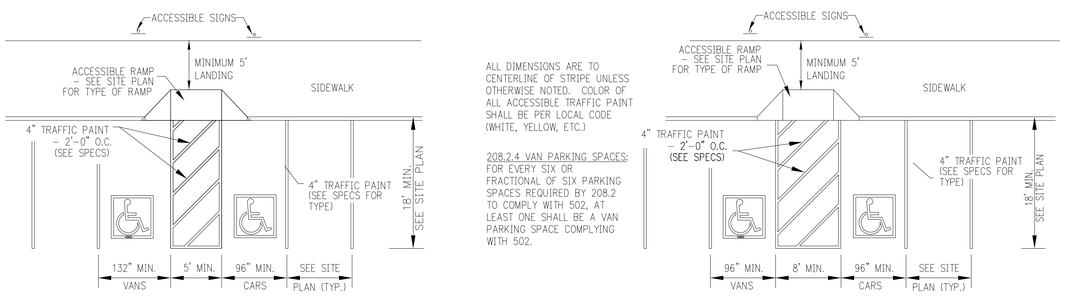
## DETAIL 1
## EXPANSION JOINTS TYPE A AND B

N.T.S.




## DETAIL 3 - CONTRACTION JOINTS TYPE F, G, AND H

N.T.S.




ALL DIMENSIONS ARE TO CENTERLINE OF STRIPE UNLESS OTHERWISE NOTED. COLOR OF ALL ACCESSIBLE TRAFFIC PAINT SHALL BE PER LOCAL CODE (WHITE, YELLOW, ETC.)

208.2.4 VAN PARKING SPACES: FOR EVERY SIX OR FRACTIONAL OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.

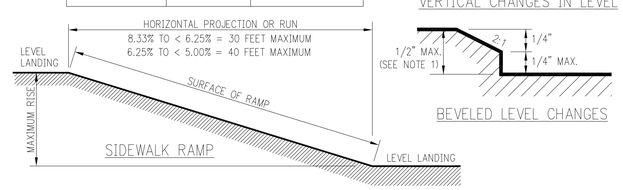
ALTERNATE "A"

ALTERNATE "B"

## VAN ACCESSIBLE PARKING

N.T.S.

| SLOPE | MAXIMUM RISE | MAXIMUM HORIZONTAL PROJECTION OR RUN |
|---|---|---|
| 1:12 TO < 1:16 (8.33% TO < 6.25%) | 30 INCHES | 30 FEET |
| 1:16 TO < 1:20 (6.25% TO < 5.00%) | 30 INCHES | 40 FEET |

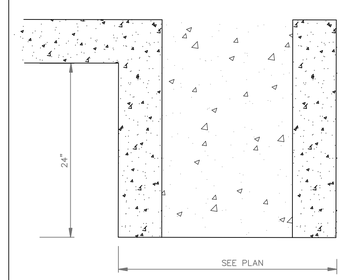



NOTES:

1. CHANGES IN LEVEL GREATER THAN 1/2 INCH SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
2. RAMP RUNS GREATER THAN SIX INCHES OF RISE OR GREATER SIX FEET IN HORIZONTAL PROJECTION SHALL HAVE HANDRAILS ON BOTH SIDES, EXCEPT CURB RAMPS.
3. HANDRAILS SHALL BE 34" TO 38" HIGH AND A MINIMUM OR 36" APART AND MUST EXTEND 12" BEYOND TOP AND BOTTOM OF THE RAMP SEGMENT. SEE HANDRAIL DETAILS.

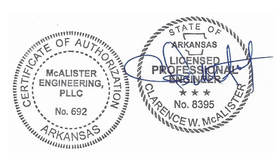
## IN-LINE ACCESSIBLE ROUTE/ SIDEWALK RAMP - CHANGES IN LEVEL

N.T.S.




## PLAN-CURB-CHANNEL

N.T.S.

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McALISTER ENGINEERING, PLLC
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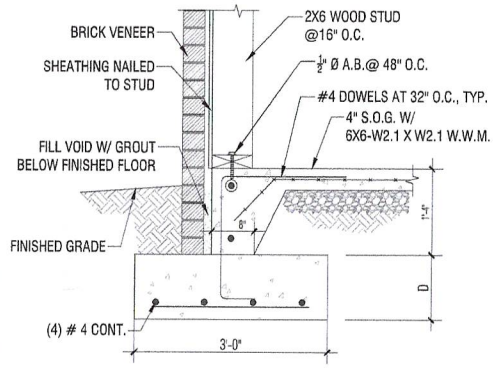
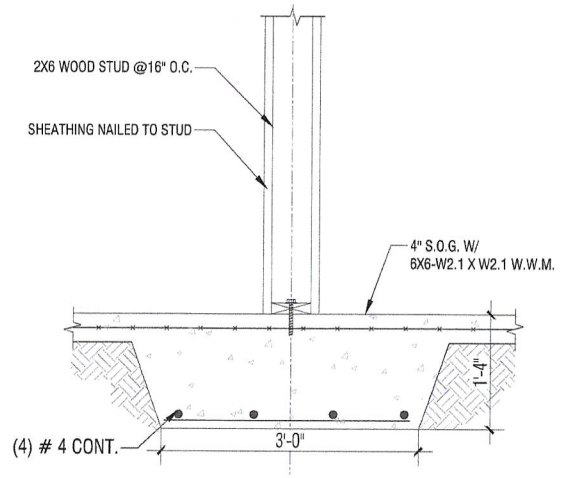
4508 STADIUM BLVD, STE D, JONESBORO, AR 72404
870-931-1420
CLARENCE W. "MAC" McALISTER, PE, PS

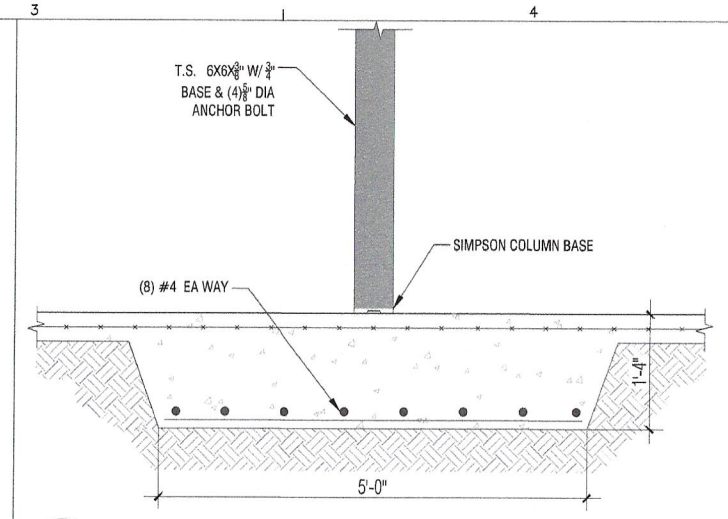
| | |
|---|---|
| DRAWN BY: TM | CHECKED BY: CWM |
| SCALE: 1" = 30' | PROJECT |
| DATE: 2JAN23 | FILE PROJECTS 2023 |
| DWG REF. 05-12N-10E | |
| JOB NO. 23132499 | SHEET 6 / 6 |




1D SECTION
SCALE: 1" = 1'-0"




2D SECTION
SCALE: 1" = 1'-0"

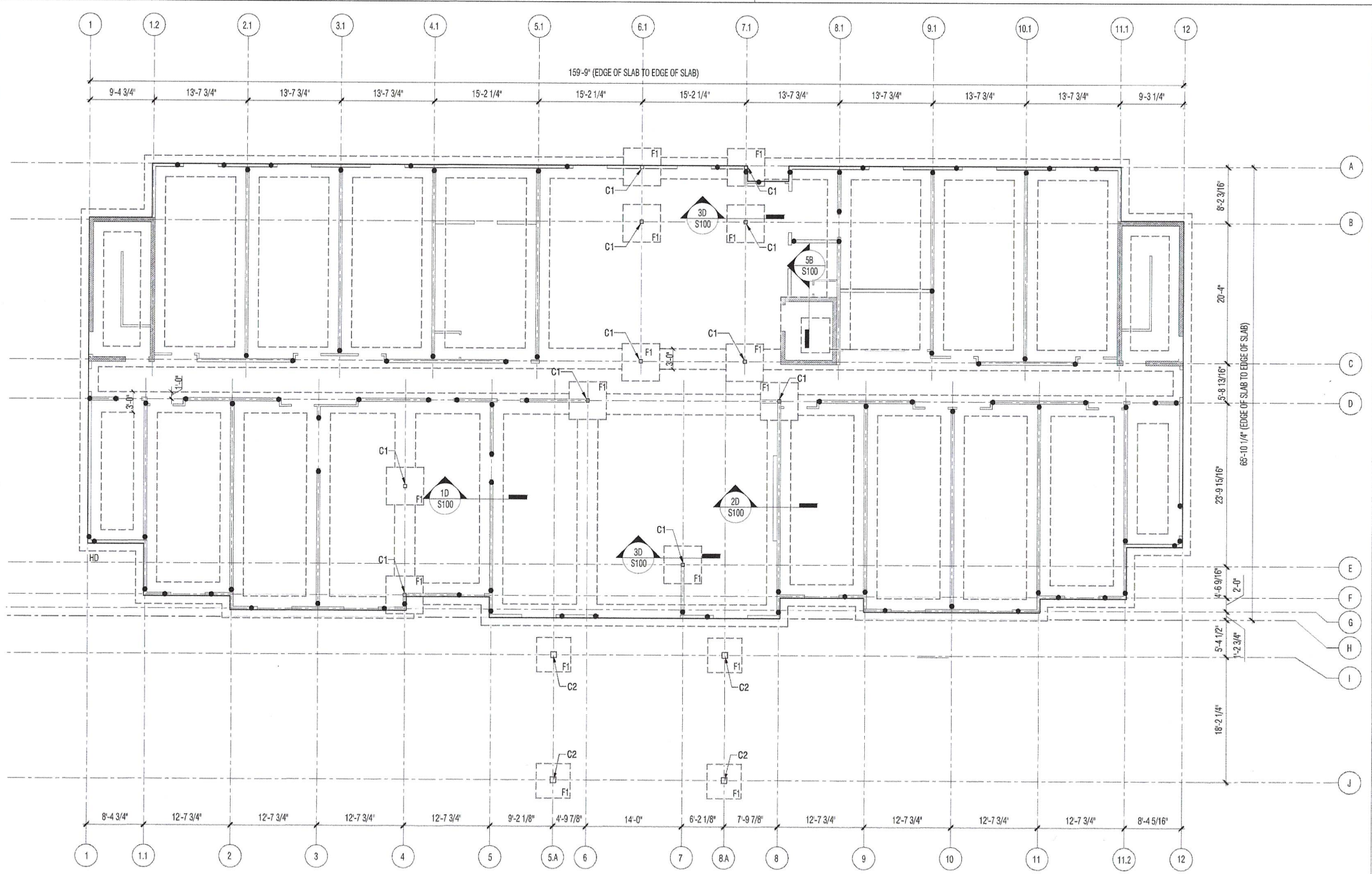



3D FOOTING @ COLUMN
SCALE: 1" = 1'-0"

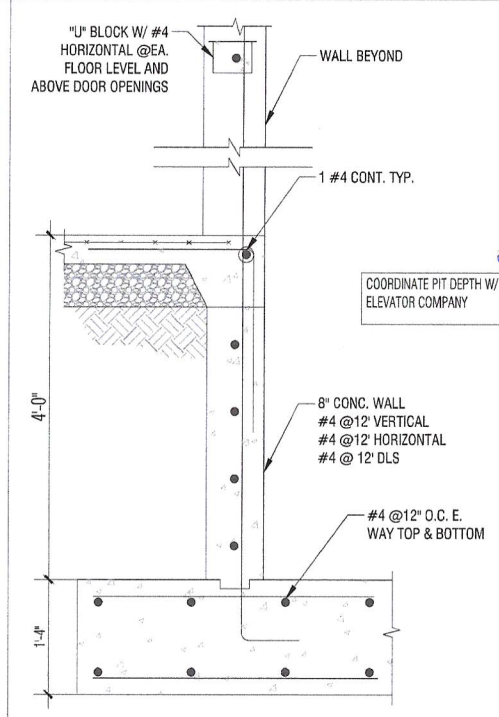
| COLUMN SCHEDULE | |
|---|---|
| MARK | SIZE |
| C1 | 6' x 6' x 3/8" |
| C2 | 10" x 10' x 3/8" |

| COLUMN FOOTING SCHEDULE | | |
|---|---|---|
| MARK | SIZE | REINFORCING |
| F1 | 5' x 5' x 12" | #4 @ 8" =O.C. E.A. WAY TOP & BOTTOM |

NOTES :
* 12' MINIMUM THICKNESS - EXTEND TO BOTTOM OF EXISTING FOOTING




1A FOUNDATION PLAN
SCALE: 1/8" = 1'-0"




5B SECTION
SCALE: 1" = 1'-0"

GENERAL NOTES : CONCRETE

1. FOUNDATIONS ARE DESIGNED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
2. ALL CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI (SACKS/YARD MINIMUM).
3. REINFORCING STEEL SHALL BE ASTM-A-615, GRADE 60.
4. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF A.C.I. DETAILING MANUAL.
5. ALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND SHALL HAVE A MINIMUM 30 BAR DIAMETER LAP (MINIMUM 18") OR AS NOTED ON PLANS.

NOTES :

1. GC TO SUBMIT TRUSS SHOP DRAWINGS TO ARCHITECT PRIOR TO FABRICATION.
2. GC TO COORDINATE DIMENSIONS FOR FOUNDATION PLAN WITH FLOOR PLAN. PRIOR TO POURING CONCRETE. GC TO SUBMIT THE FOUNDATION SHOP DRAWINGS WITH DIMENSIONS FOR ARCHITECT APPROVAL.
3. FOUNDATION DESIGN IS NOT FINAL AND IS NOT FOR CONSTRUCTION PURPOSE. UPON RECEIVING SOIL TEST REPORT, STRUCTURAL ENGINEER WILL ISSUE FINAL FOUNDATION DESIGN.


**DESIGN GROUP, LLC.**
1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765
E-Mail: nkumar@designgroupmemphis.com


OWNER NAME AND ADDRESS

INDEPENDENT HOTEL
AT
HIGHWAY 140,
OSCEOLA, AR

SEAL: STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO 10414 MICHAEL STEPHENS

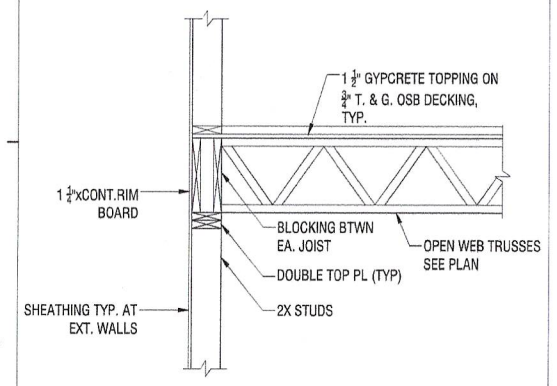
CONSULTANTS NAME:

100 % REVIEW SET

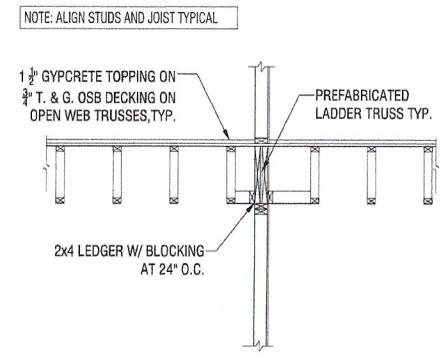
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 02/29/2024 | 100 % REVIEW SET |

DRAWING NAME
FOUNDATION PLAN

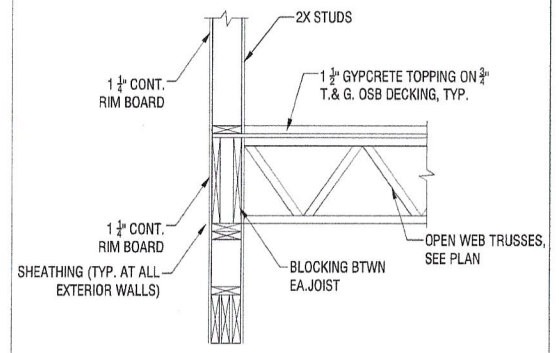
DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:
**S100**



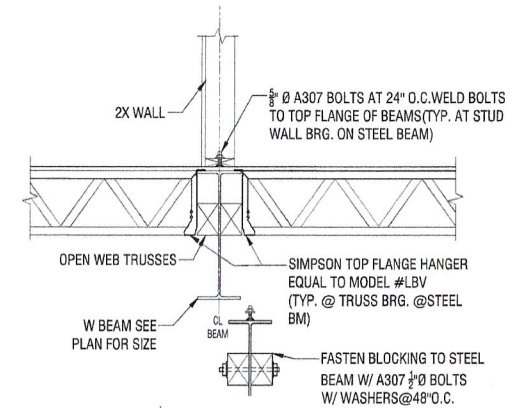

1D TYPICAL EXTRIOR SECTION
SCALE: 3/4" = 1'-0"



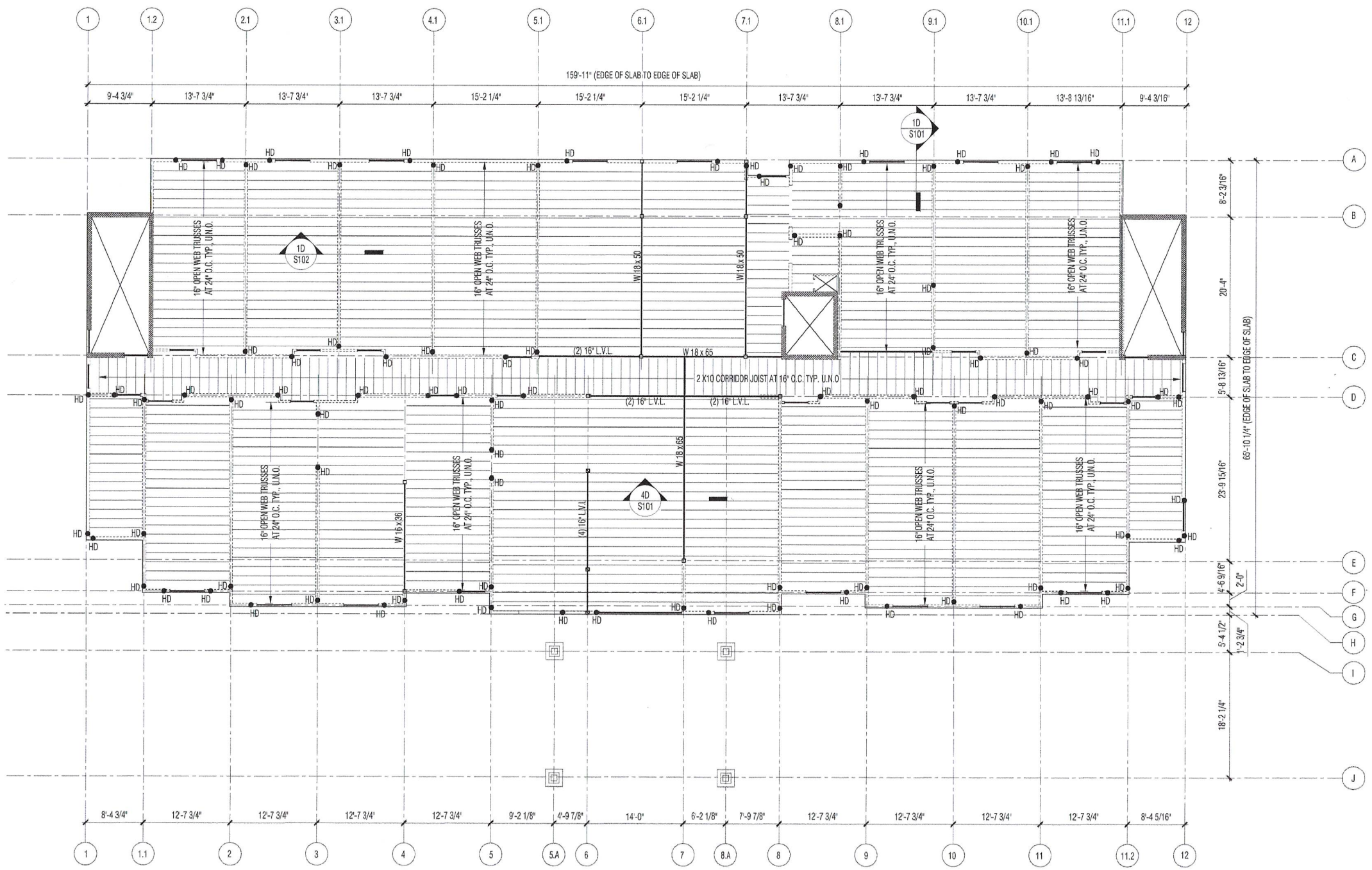

2D INTERIOR WALL SECTION
SCALE: 3/4" = 1'-0"



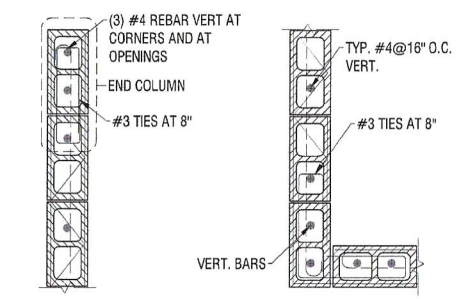

3D EXTERIOR HEADER SECTION
SCALE: 3/4" = 1'-0"




4D TYP. SECTION AT STEEL BEAM
SCALE: 3/4" = 1'-0"




1A FIRST FLOOR- FRAMING PLAN
SCALE: 1/8" = 1'-0"




5C CMU WALL DETAILS
SCALE: 3/4" = 1'-0"

NOTES :

1. 1 ½" GYP- CRETE TOP[PING ON T & G PLYWOOD DECKING ON 16" OPEN WEB TRUSSES. GLUE & NAIL DECKING W/ 10D NAILS AT O.C. AT SUPPORTS & 12" O.C. IN THE FIELD.
2. T/3RD FLOOR EL.+125'-51/2" , 4TH FLR EL. + 135'-3" FOR REFERENCE. VERIFY W/ ARCH.
3. COORDINATE FLOOR PENETRATIONS WITH PLUMBING AND MECHANICAL DRAWINGS, TYP.

LEGEND :

| MARK | DESCRIPTION |
|---|---|
| HD ● | INDICATES HOLD DOWN SEE "SHEAR WALL SCHEDULE" FOR MORE INFORMATION |
| | INDICATES CMU WALL. |
| ▶ | INDICATES MOMENT CONNECTION |

NOTES :

1. PLYWOOD SPACERS SHALL BE INSTALLED BETWEEN HEADERS AS REQUIRES TO ACHIEVE WALL WIDTH. REFER TO GENERAL NOTES FOR FASTING REQUIREMENTS, TYP.
2. ALL CANTILEVER LVL BEAMS TO BE ATTACHED TO POSTS WITH SIMPSON PC6Z POT CAP OR APPROVED EQ. FOR FACE MOUNTING CONDITION, ATTACH WITH SIMPSON HUC HANGER OR APPROVED EQ. SEE DET. FOR CONNECTIONS TO STEEL COLUMNS.


**DESIGN GROUP, LLC.**

1255 Lynnfield Road, Suite 226
Memphis, Tennessee 38139
Telephone: 901.603-8765

E-Mail: nkumar@designgroupmemphis.com


OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL:

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO 10414 MICHAEL STEVENS

CONSULTANTS NAME:

100 % REVIEW SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 02/29/2024 | 100 % REVIEW SET |

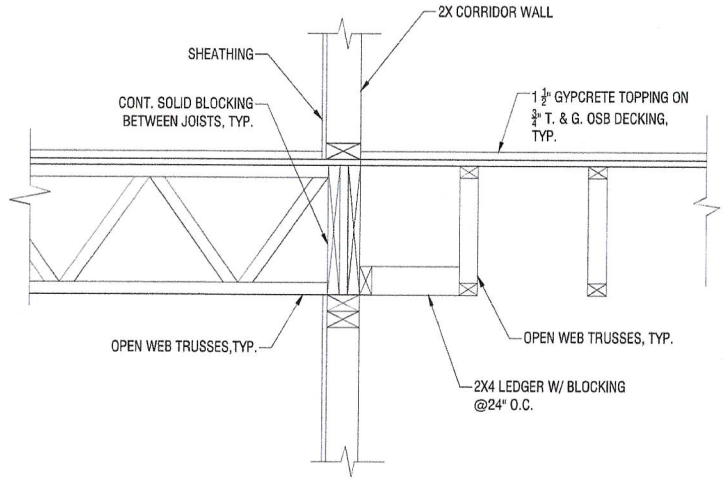
DRAWING NAME

FIRST FLOOR- FRAMING PLAN

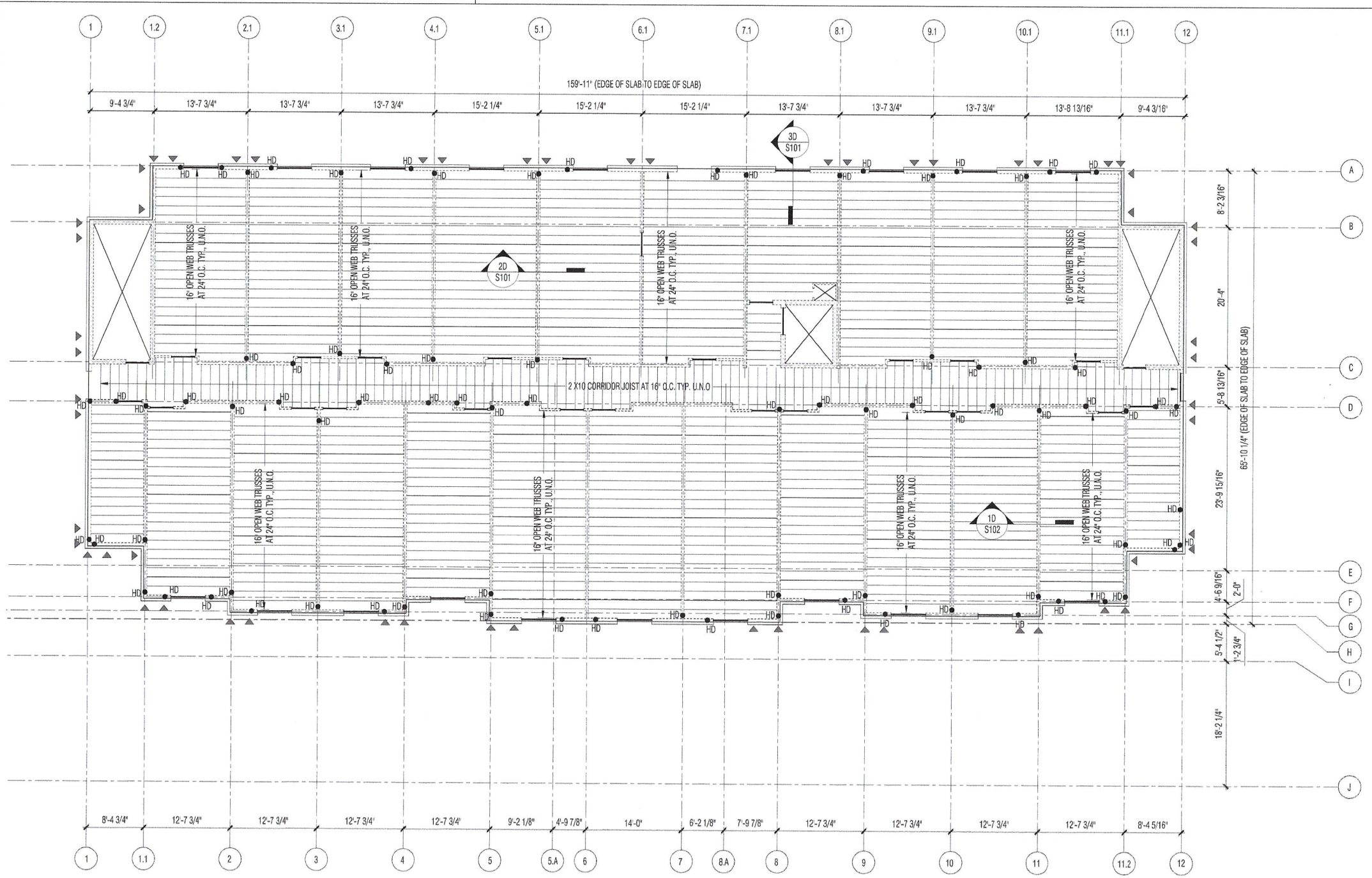
DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:

DRAWING NUMBER:

**S101**




1D DEMISING WALL SECTION
SCALE: 3/4" = 1'-0"




1A TYPICAL FLOOR- FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTES :

1. 1 1/2" GYP- CRETE TOP[PING ON T & G PLYWOOD DECKING ON 16" OPEN WEB TRUSSES. GLUE & NAIL DECKING W/ 10D NAILS AT O.C. AT SUPPORTS & 12" O.C. IN THE FIELD.
2. T/3RD FLOOR EL.+125'-51/2" , 4TH FLR EL.+ 136'-3" FOR REFERENCE. VERIFY W/ ARCH.
3. COORDINATE FLOOR PENETRATIONS WITH PLUMBING AND MECHANICAL DRAWINGS, TYP.

LEGEND :

| MARK | DESCRIPTION |
|---|---|
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| | INDICATES CMU WALL. |
| ▶ | INDICATES MOMENT CONNECTION |

NOTES :

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Memphis, Tennessee 38139
Telephone: 901.603-8765

E-Mail: nkumar@designgroupmemphis.com


OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO 10414
MICHAEL STEPHENS
2/29/24

CONSULTANT'S NAME

100 % REVIEW SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 02/29/2024 | 100 % REVIEW SET |

DRAWING NAME

TYPICAL FLOOR- FRAMING PLAN

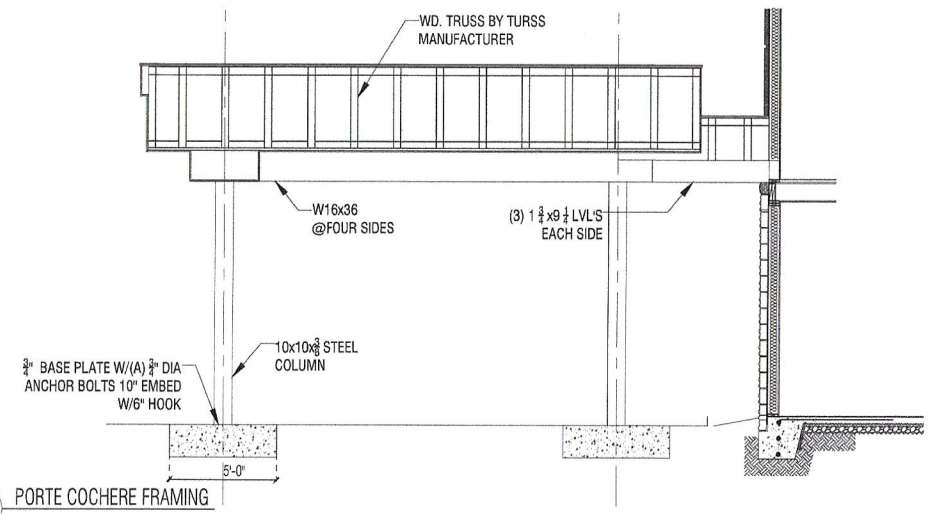
DRAWN BY: KEYA

CHECKED BY:

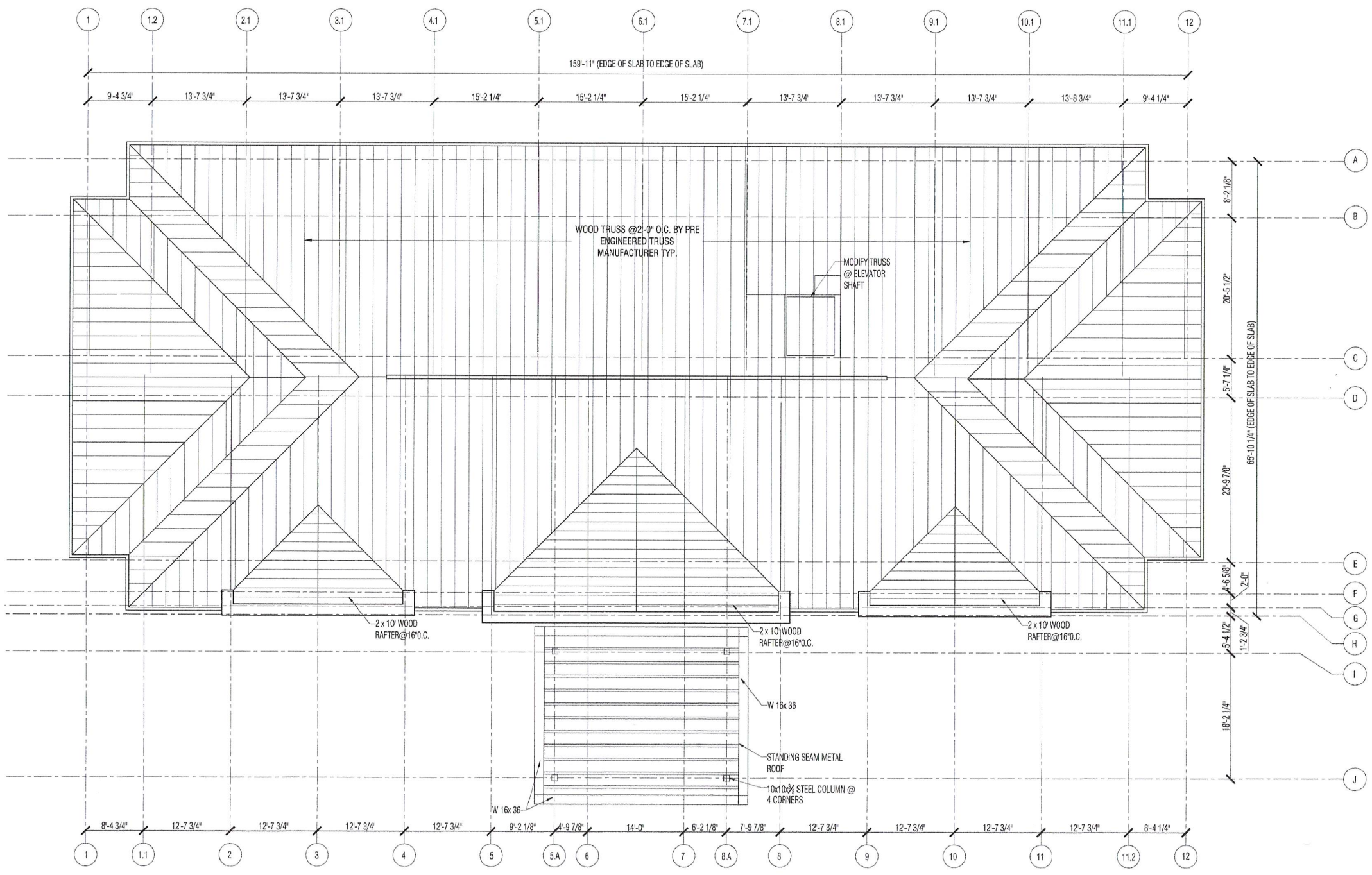
APPROVED BY:

DRAWING NUMBER:

**S102**




1D PORTE COCHERE FRAMING
SCALE: 1/4" = 1'-0"




1A ROOF- FRAMING PLAN
SCALE: 1/8" = 1'-0"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INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

ARKANSAS LICENSED PROFESSIONAL ENGINEER NO 10414 MICHAEL STEPHENS

CONSULTANTS NAME:

100 % REVIEW SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 02/29/2024 | 100 % REVIEW SET |

DRAWING NAME

ROOF - FRAMING PLAN

DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

**S103**

GUEST ROOM MATRIX

| | KING | KING R.I.S. ADA | KING W/ KITCHEN | KING W/ KITCHEN ADA | MANAGER APT. | DOUBLE QUEEN | DOUBLE QUEEN ADA | DOUBLE QUEEN W/ KITCHEN | DOUBLE QUEEN W/ KITCHEN ADA | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| FIRST FLOOR | 3 | 1 | 2 | - | 1 | 2 | - | 2 | - | 11 |
| SECOND FLOOR | 4 | - | 2 | 1 | - | 6 | 1 | 5 | 1 | 20 |
| THIRD FLOOR | 4 | - | 3 | - | - | 7 | - | 6 | - | 20 |
| TOTAL | 11 | 1 | 7 | 1 | 1 | 15 | 1 | 13 | 1 | 51 |

TOTAL NUMBER OF HEARING IMPAIRED ROOMS - 07

TOTAL NUMBER OF ROOMS - 51

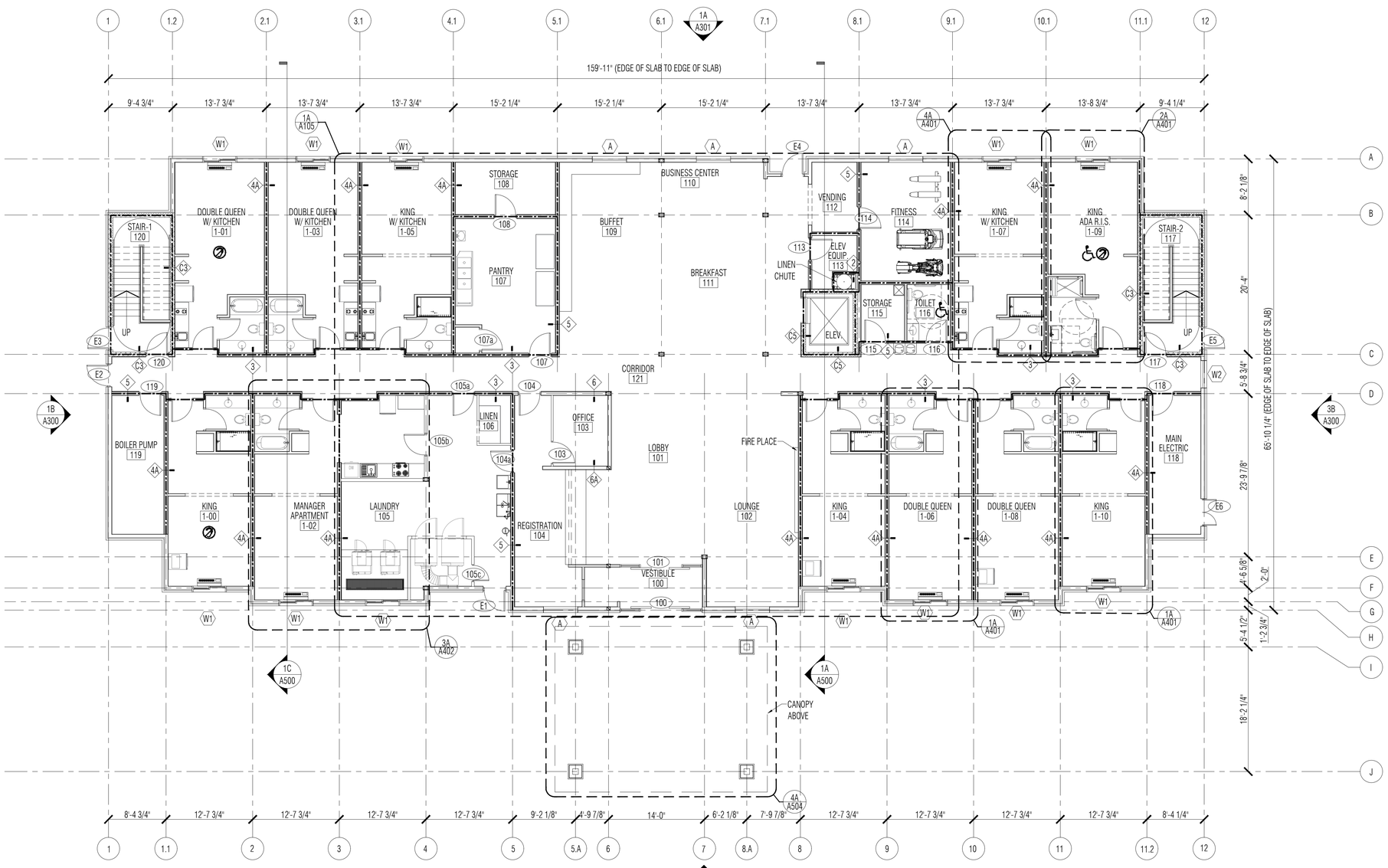
ACCESSIBLE ROOM  HEARING IMPAIRED

1D ROOM MATRIX
N.T.S.

WALL LEGEND

| | |
|---|---|
| | 1 HOUR WALL |

4D LEGEND
N.T.S.




1A FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH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INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
NO. 8852
03/01/2024
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

FIRST FLOOR PLAN

DRAWN BY: KEYA

CHECKED BY:

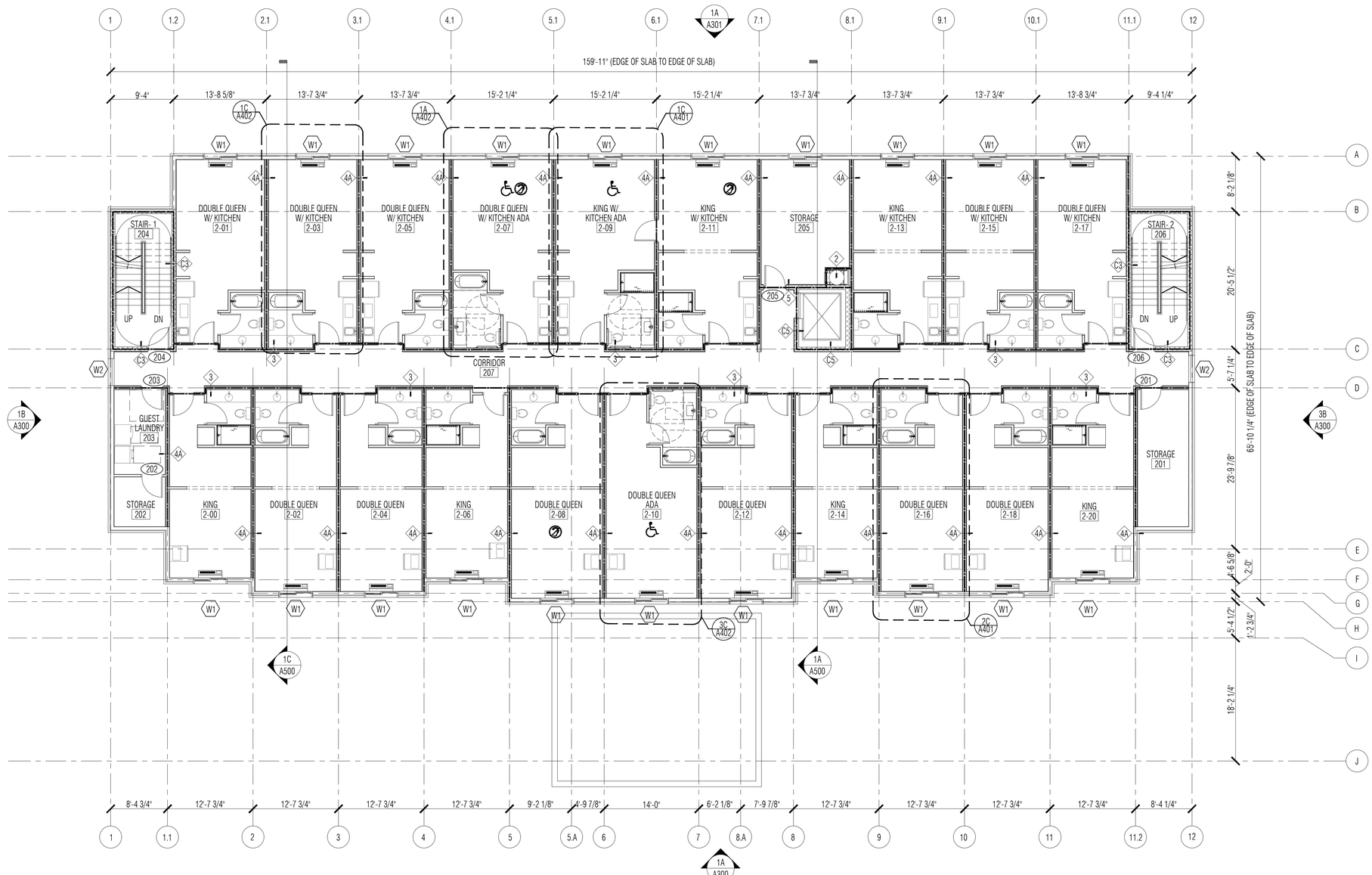
APPROVED BY:

DRAWING NUMBER:

**A101**

| WALL LEGEND | |
|---|---|
| | 1 HOUR WALL |

1D LEGEND
N.T.S.




1A SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH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SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 8882 03/01/2024 NEERAJ KUMAR

MARCH 01, 2024

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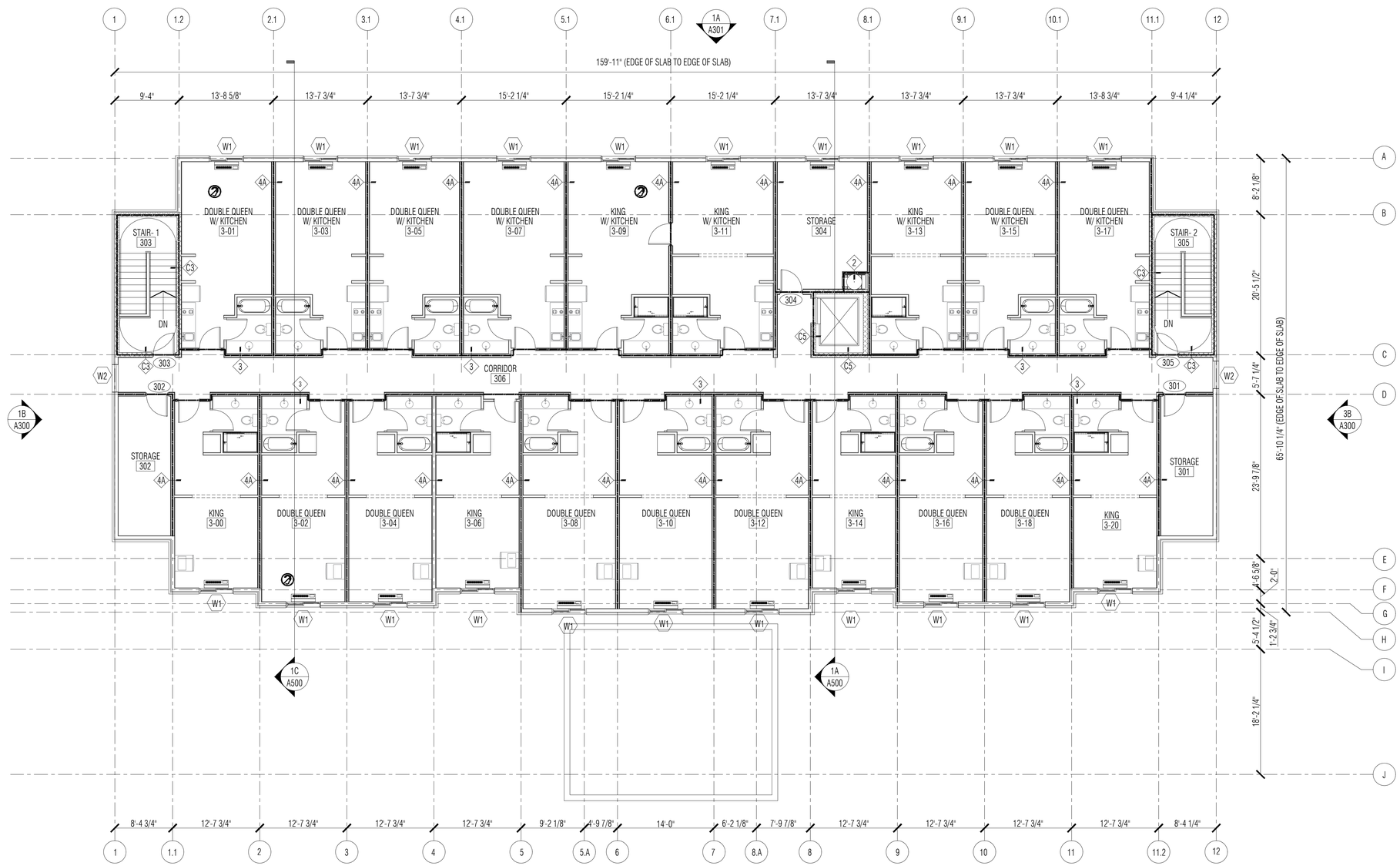
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME
SECOND FLOOR PLAN

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

**A102**




1A THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH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STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 8852 03/01/2024 NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

THIRD FLOOR PLAN

DRAWN BY: KEYA

CHECKED BY:

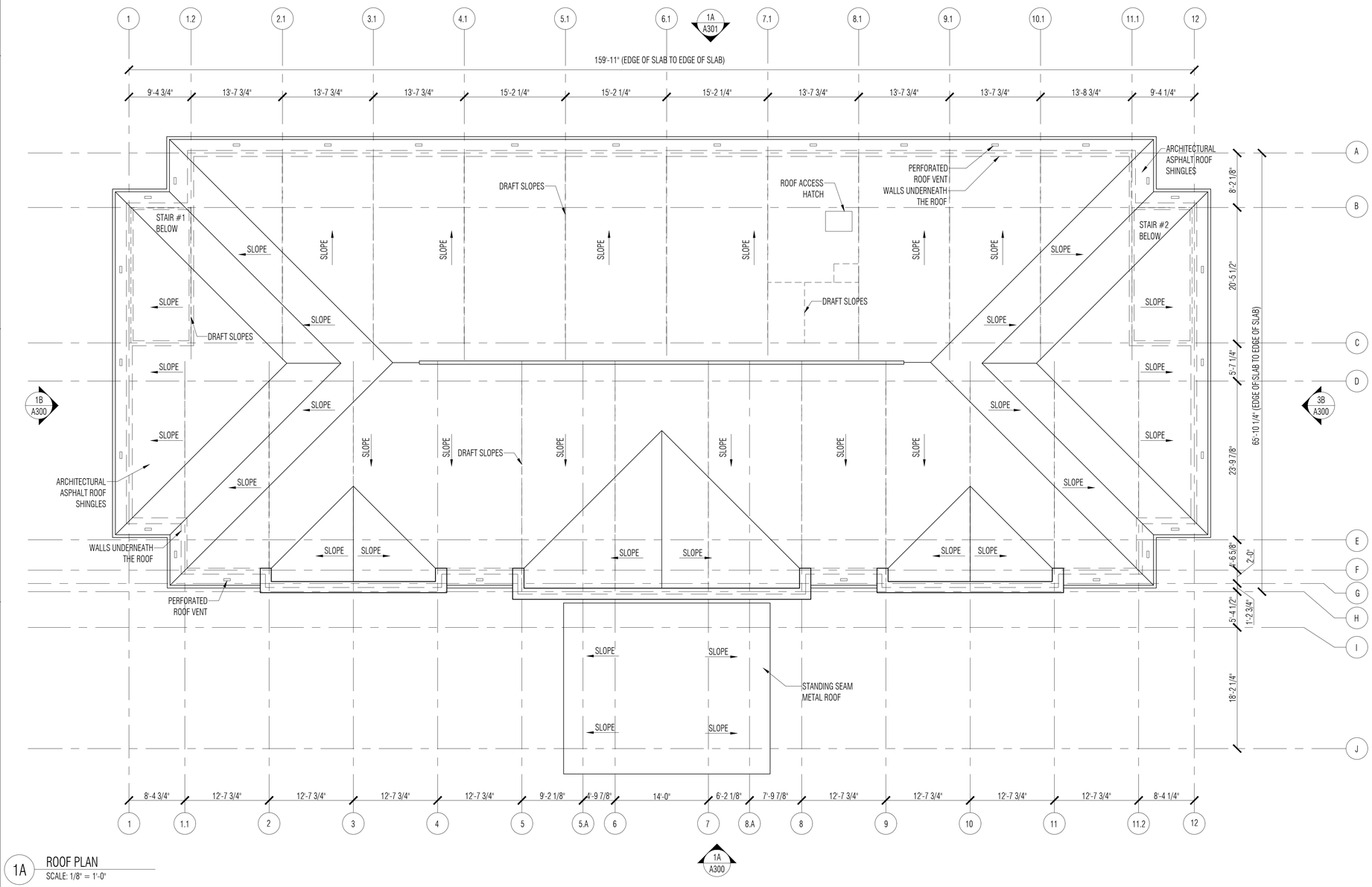
APPROVED BY:

DRAWING NUMBER:

**A103**

NOTE:

GC TO ENSURE AND PROVIDE ADEQUATE NUMBER OF ROOF VENT TO MEET CODE REQUIREMENTS.




1A ROOF PLAN
SCALE: 1/8" = 1'-0"

NORTH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|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

ROOF PLAN

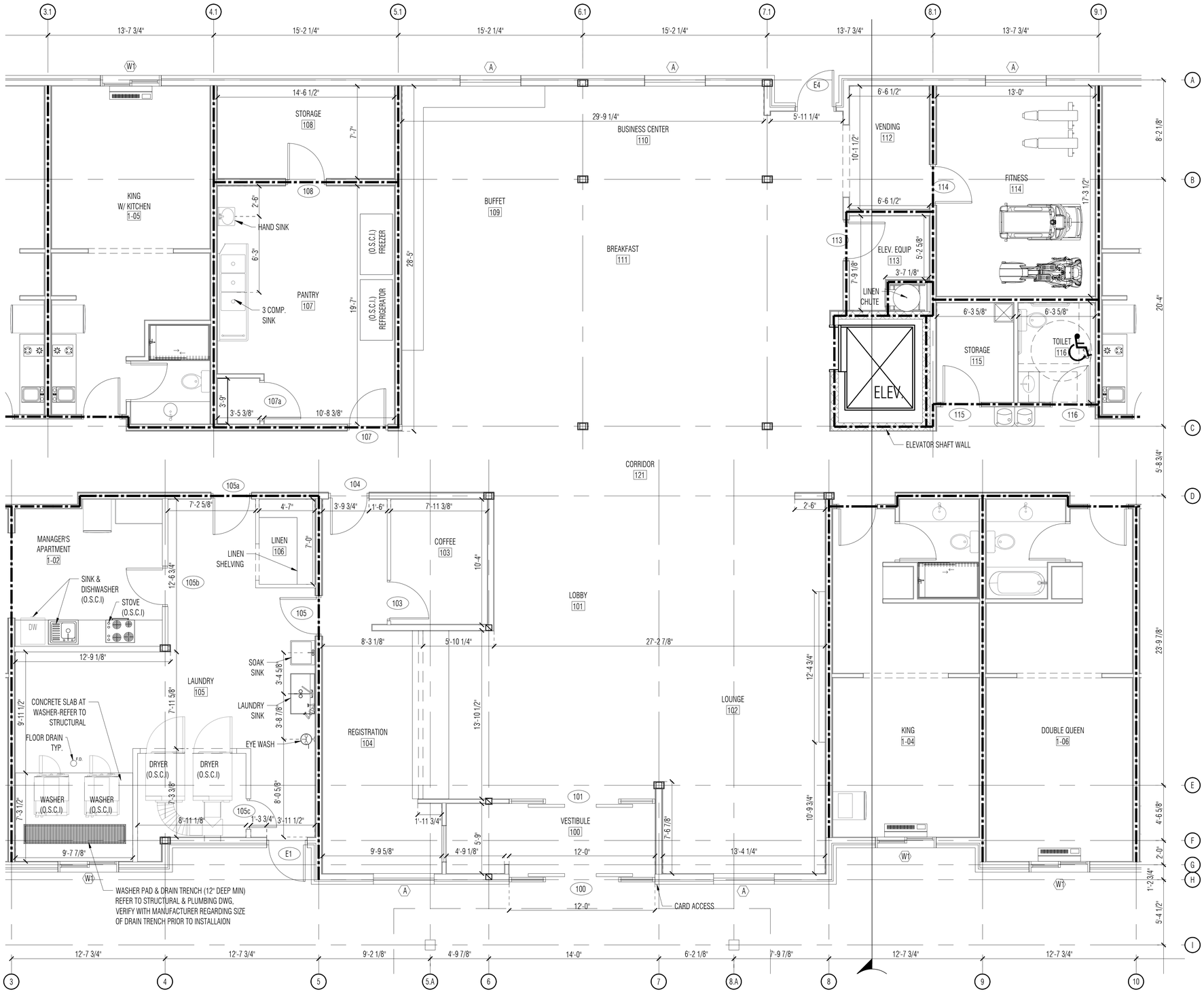
DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

**A104**




1A ENLARGED FIRST FLOOR PLAN

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

NOTE:
1. ALL DIMENSIONS ARE TO CENTERLINE OR TO FACE OF FINISHED WALL UNO.
2. FULL HEIGHT COLORED CORNER GUARDS AT ALL OUTSIDE WALLS IN GUEST ROOMS, PUBLIC AREAS, BACK OF HOUSE AREAS & CORRIDORS. ALL FLOORS- SEE SPECS. CORNER GUARDS TO BE 1" WIDE IN GUEST ROOMS, 1 1/2", ALL OTHER LOCATIONS.
3. ACOUSTICAL SEALANT SHALL BE USED AT ALL CEILING, FLOOR & WALL CONDITIONS, GUESTROOMS & ALL OTHER WALLS REQUIRING SOUND PROTECTION.
4. G.C. TO PROVIDE BLOCKING FOR ALL ACCESSORIES, BUILDING ITEMS AND OWNER FEE ITEMS THAT ARE WALL OR CEILING MOUNTED.
5. PROVIDE SOUND BATT INSULATION IN STUD WALLS THROUGHOUT PROJECT INCLUDING ELEVATOR EQUIPMENT, LAUNDRY AND ALL MECHANICAL ROOMS/CLOSETS. PROVIDE RIGID INSULATION IN CEILING, ELEVATOR EQUIPMENT & DRYERS.
6. INDICATES HEARING - IMPAIRED ROOM (SEE NOTE 2)
7. ALL DOWN SPOUTS AND INTERNAL ROOF DRAINS TO CONNECT TO STORM DRAINAGE - SEE CIVIL.

NOTE:
- GC TO COORDINATE WITH FIRE PROTECTION CONTRACTOR REGARDING LOCATION OF PUMP AND OTHER CODE REQUIREMENTS.
- GC TO ENSURE ALL LOCAL CODES ARE MET.
- GC TO SUBMIT SHOP DRAWINGS TO ARCHITECT PRIOR TO INSTALLATION OF FIRE PROTECTION SYSTEM.

| WALL LEGEND | |
|---|---|
| 1 HOUR WALL | |

NOTE:
1. SHEARWALL (4A) WALL TYPE ON ARCHITECTURAL PLAN IS FOR REFERENCE PURPOSE ONLY. GC TO REFER TO STRUCTURAL DRAWING FOR EXACT SIZE, LOCATION, TYPE, ETC.
REGARDING SHEARWALLS - IN CASE OF DISCREPANCIES, GC TO NOTIFY ARCHITECT
2. GC TO VERIFY ALL FLOOR MOUNTED OUTLETS ARE INSTALLED AS PER ELECTRICAL DRAWINGS
3. ALL STEEL COLUMNS TO BE WRAPPED WITH TYPE 'X' GYP. BOARD FOR 1 HR RATED ASSEMBLY UL# X536/X528.
4. GC RESPONSIBLE FOR ENSURING ALL FLOOR MOUNTED OUTLETS ARE IDENTIFIED PER ELECTRICAL DRAWINGS. ARCHITECTURAL/ID DRAWINGS ARE ONLY TO SHOW LOCATION ON FLOOR PLANS.

N O R T H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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 6852 03/01/2024 NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

ENLARGED FIRST FLOOR PLAN

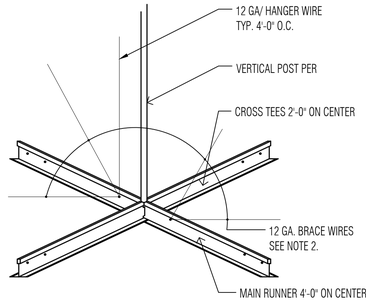
DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

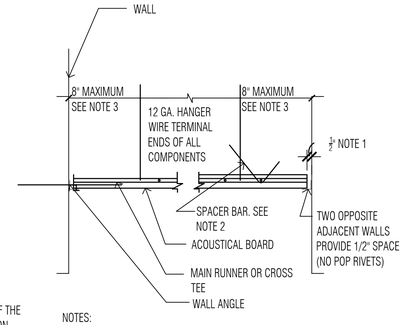
DRAWING NUMBER:

**A105**

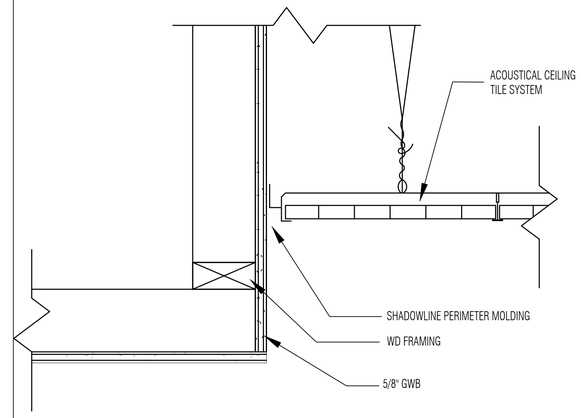



NOTES:
1. BRACING WIRES TO BE ATTACHED AT MAXIMUM OF 45 DEGREES TO THE PLANE OF THE CEILING AND PARALLEL TO THE COMPONENTS INTERSECTING AT THE BRACE LOCATION. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH A MINIMUM THREE TIGHT WRAPS.
2. GRID BRACE ASSEMBLY 12'-0" O.C. MAX.
3. CROSS RUNNERS SHALL BE ATTACHED WITH MECHANICAL INTERLOCKING CONNECTORS.

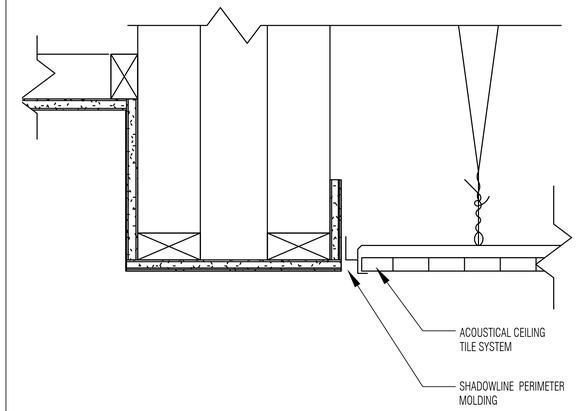
1C CEILING DETAILS
SCALE: 1/2"=1'-0"




NOTES:
1. THE UNATTACHED PERIMETER SHALL HAVE A MINIMUM OF 1/2" CLEARANCE AT ENDS OF COMPONENTS.
2. CONTINUOUS SPACER BAR TO BE LOCKED TO COMPONENTS ON THE UNATTACHED WALL.
3. PERIMETER TERMINAL COMPONENT ENDS MUST BE SUPPORTED BY A 12 GA. WIRE ON ALL WALLS.




3C CEILING DETAILS
SCALE: 3"=1'-0"




4C CEILING DETAILS
SCALE: 3"=1'-0"

1A RCP- FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

CEILING TYPE LEGEND

1. INTERIOR TEXTURE COATING OVER SUSPENDED/FURRED GYPSUM BOARD
2. EXTERIOR TEXTURE COATING OVER SUSPENDED/FURRED GYPSUM BOARD
3. SUSPENDED/FURRED GYPSUM BOARD - PAINT
4. SUSPENDED CEILING TILE 2X2, BEVELED TEGULAR, SMOOTH TEXTURE IN RECESSED GRID
5. SUSPENDED CEILING TILE 2X4 TILE TO COMPLY WITH HEALTH CODE
6. 1-1/2" E.I.F.S. (FINE SAND TEXTURE)

## LEGENDS

| | |
|---|---|
| | SUSPENDED ACOUSTICAL CEILING |
| | PENDANT LIGHT |
| | RECESSED LED DOWNLIGHT |
| | STRAIGHT TRACK LED LIGHT |
| | 2'X4' LED PANEL LIGHT |
| | 2'X2' LED PANEL LIGHT |
| | SURFACE MOUNTED 4' FLOURESCENT LIGHT |
| | EXIT SIGN |
| | 6" X4' FLOURESCENT LIGHT |
| | 1x4 LED STRIP FIXTURE |
| | SCONCE |
| | BATTERY EMERGENCY WALL LIGHT |

NORTH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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
NO. 8852
03/01/2024
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

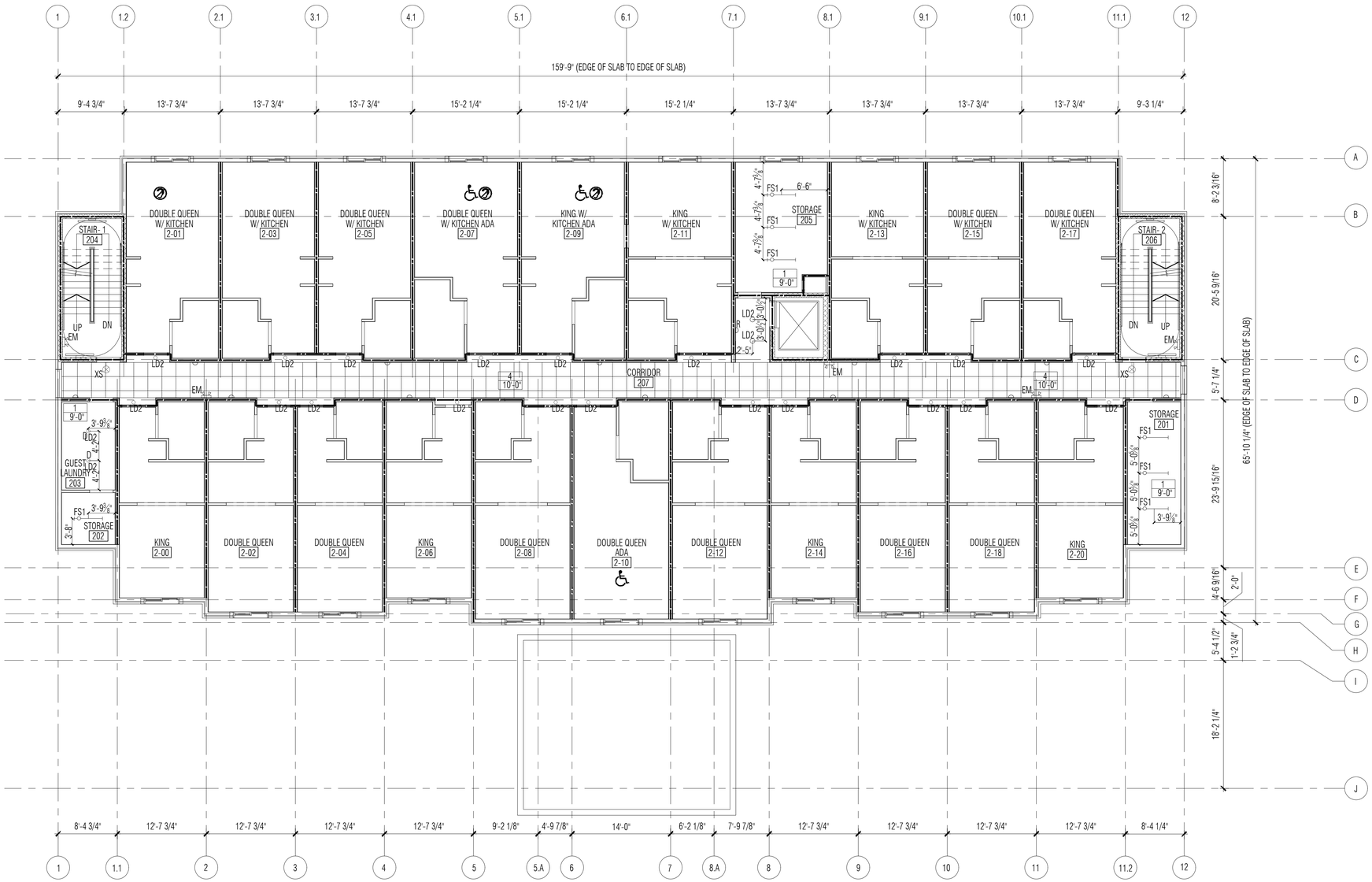
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

RCP- FIRST FLOOR PLAN

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

**A201**




1A RCP- SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

CEILING TYPE LEGEND

1. INTERIOR TEXTURE COATING OVER SUSPENDED/FURRED GYPSUM BOARD
2. EXTERIOR TEXTURE COATING OVER SUSPENDED/FURRED GYPSUM BOARD
3. SUSPENDED/FURRED GYPSUM BOARD - PAINT
4. SUSPENDED CEILING TILE 2X2, BEVELED TEGULAR, SMOOTH TEXTURE IN RECESSED GRID
5. SUSPENDED CEILING TILE 2X4 TILE TO COMPLY WITH HEALTH CODE
6. 1-1/2" E.I.F.S. (FINE SAND TEXTURE)

## LEGENDS

| | |
|---|---|
| | SUSPENDED ACOUSTICAL CEILING |
| | PENDANT LIGHT |
| | RECESSED LED DOWNLIGHT |
| | STRAIGHT TRACK LED LIGHT |
| | 2'X4' LED PANEL LIGHT |
| | 2'X2' LED PANEL LIGHT |
| | SURFACE MOUNTED 4' FLOURESCENT LIGHT |
| | EXIT SIGN |
| | 6" X4' FLOURESCENT LIGHT |
| | 1x4 LED STRIP FIXTURE |
| | SCONCE |
| | BATTERY EMERGENCY WALL LIGHT |

NORTH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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 5882 03/01/2024 NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

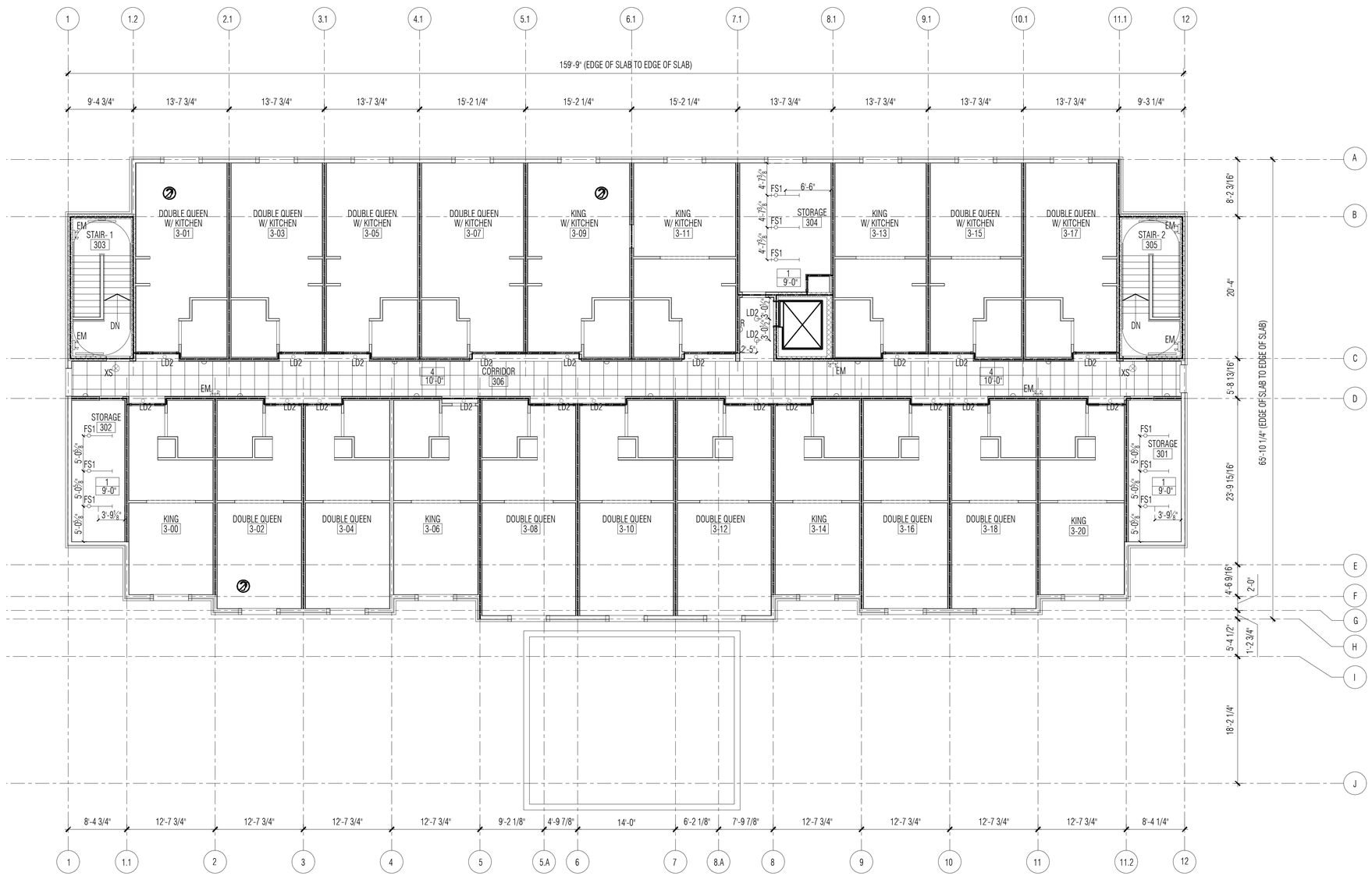
DRAWING NAME

RCP- SECOND FLOOR PLAN

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:

DRAWING NUMBER:

**A202**




1A RCP- THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

CEILING TYPE LEGEND

1. INTERIOR TEXTURE COATING OVER SUSPENDED/FURRED GYPSUM BOARD
2. EXTERIOR TEXTURE COATING OVER SUSPENDED/FURRED GYPSUM BOARD
3. SUSPENDED/FURRED GYPSUM BOARD - PAINT
4. SUSPENDED CEILING TILE 2X2, BEVELED TEGULAR, SMOOTH TEXTURE IN RECESSED GRID
5. SUSPENDED CEILING TILE 2X4 TILE TO COMPLY WITH HEALTH CODE
6. 1-1/2" E.I.F.S. (FINE SAND TEXTURE)

## LEGENDS

| | |
|---|---|
| | SUSPENDED ACOUSTICAL CEILING |
| | PENDANT LIGHT |
| | RECESSED LED DOWNLIGHT |
| | STRAIGHT TRACK LED LIGHT |
| | 2'X4' LED PANEL LIGHT |
| | 2'X2' LED PANEL LIGHT |
| | SURFACE MOUNTED 4' FLOURESCENT LIGHT |
| | EXIT SIGN |
| | 6" X4' FLOURESCENT LIGHT |
| | 1x4 LED STRIP FIXTURE |
| | SCONCE |
| | BATTERY EMERGENCY WALL LIGHT |

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| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

RCP- THIRD FLOOR PLAN

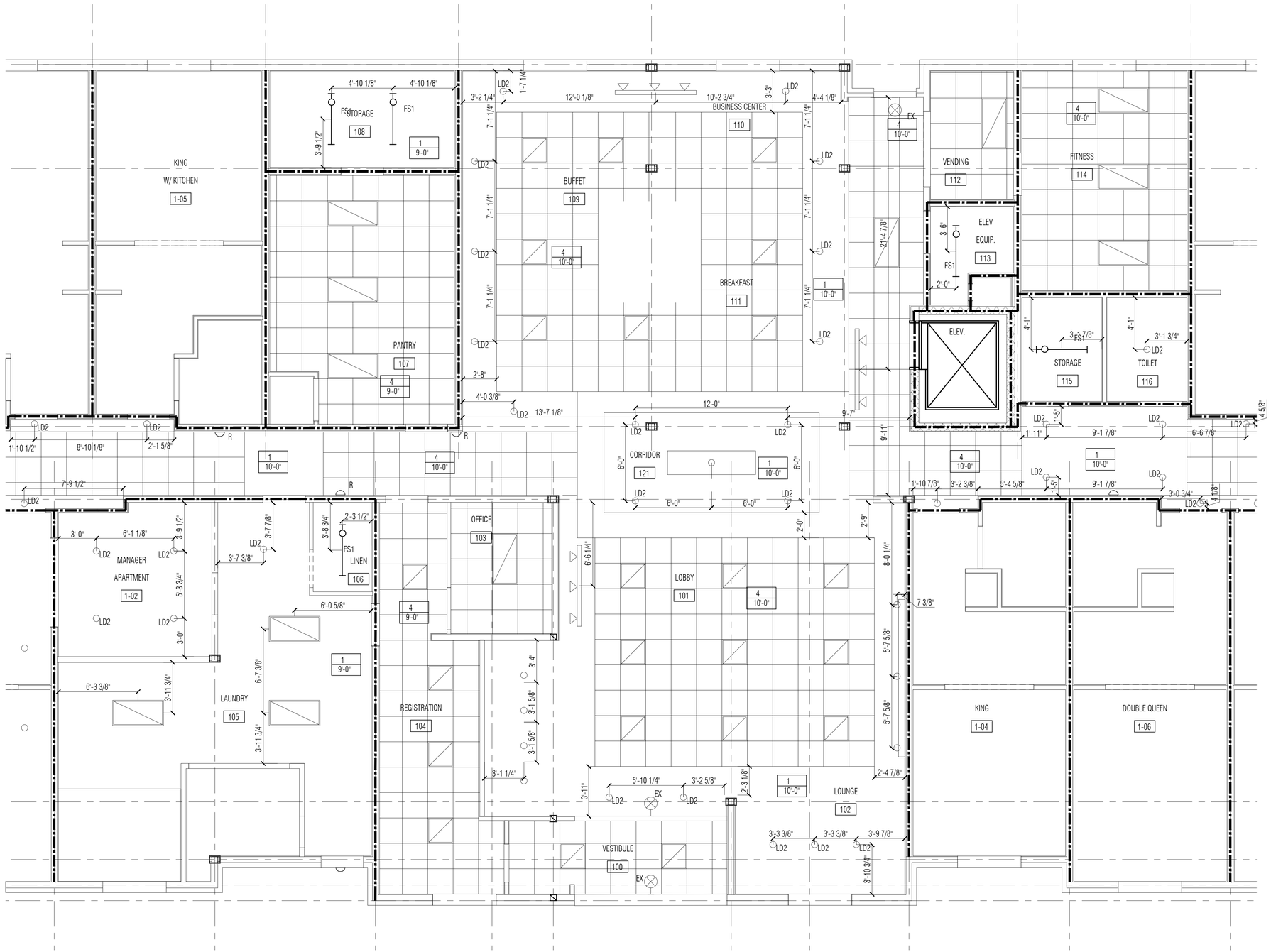
DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

**A203**




1A RCP- ENLARGED LOBBY PLAN
SCALE: 1/4" = 1'-0"

## LEGENDS

| | |
|---|---|
| | SUSPENDED ACOUSTICAL CEILING |
| | PENDANT LIGHT |
| | RECESSED LED DOWNLIGHT |
| | STRAIGHT TRACK LED LIGHT |
| | 2'X4' LED PANEL LIGHT |
| | 2'X2' LED PANEL LIGHT |
| | SURFACE MOUNTED 4' FLOURESCENT LIGHT |
| | EXIT SIGN |
| | 6" X4' FLOURESCENT LIGHT |
| | 1x4 LED STRIP FIXTURE |
| | SCONCE |
| | BATTERY EMERGENCY WALL LIGHT |

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NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

RCP- ENLARGED LOBBY PLAN

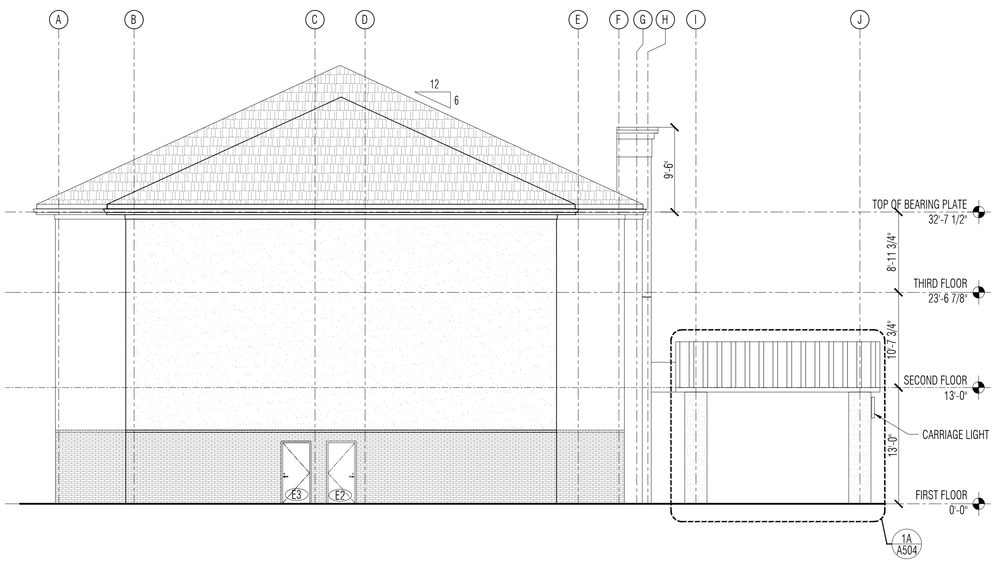
DRAWN BY: KEYA

CHECKED BY:

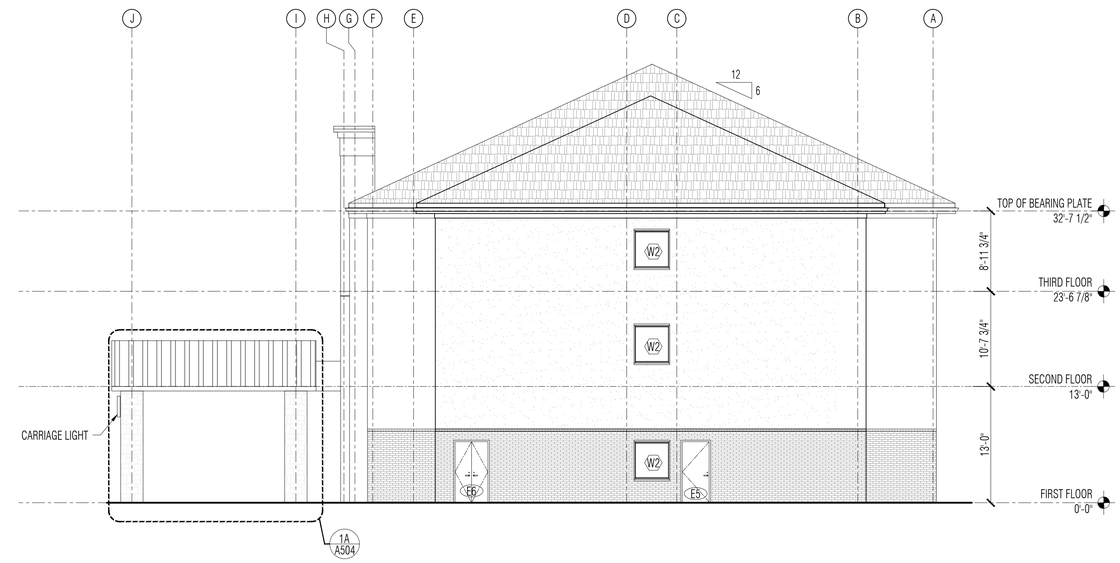
APPROVED BY:

DRAWING NUMBER:

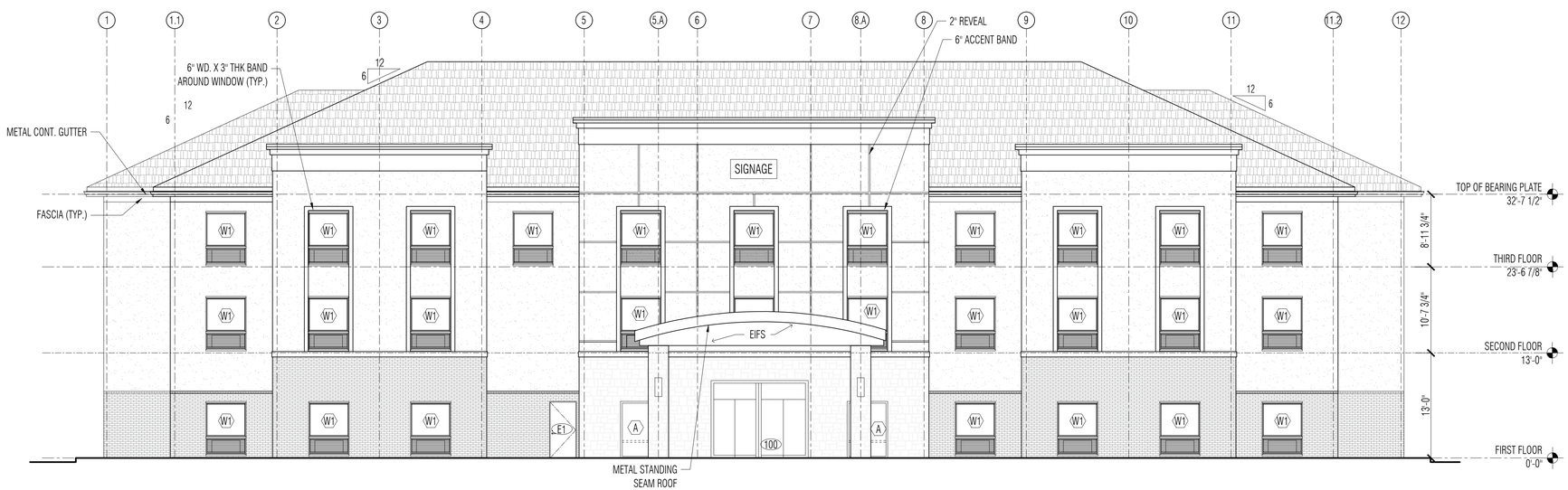
**A204**




1B EAST ELEVATION
SCALE: 1/8" = 1'-0"




3B WEST ELEVATION
SCALE: 1/8" = 1'-0"




1A NORTH ELEVATION
SCALE: 1/8" = 1'-0"

NOTE: COORDINATE SELECTION OF COLOR WITH ARCHITECT

SIGNAGE: GC TO PROVIDE BLOCKING & POWER AS REQUIRED FOR INSTALLATION. GC TO COORDINATE WITH OWNER/SUPPLIER.

HATCH LEGENDS

| | |
|---|---|
| | EIFS |
| | ASPHALT ROOF SHINGLES |
| | CULTURED STONE |
| | BRICK VENEER |


**DESIGN GROUP, LLC.**

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Telephone: 901.603-8765

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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
NO. 8852
03/01/2024
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

ELEVATIONS

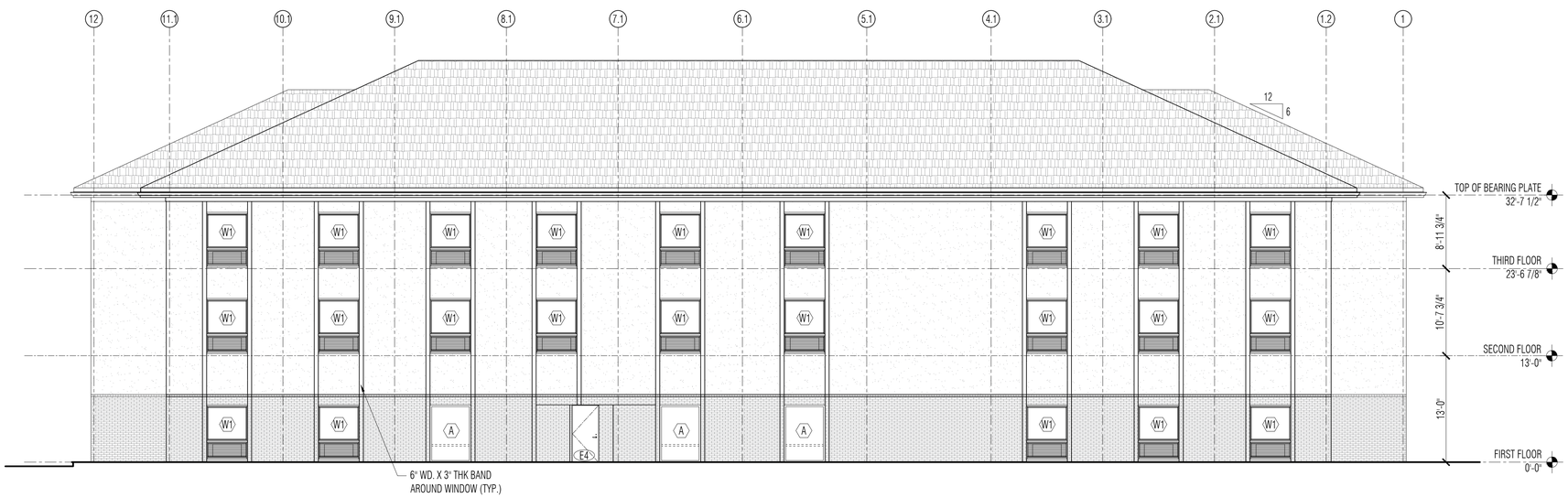
DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

**A300**




1A SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

NOTE: COORDINATE SELECTION OF COLOR WITH ARCHITECT

HATCH LEGENDS

| | |
|---|---|
| | EIFS |
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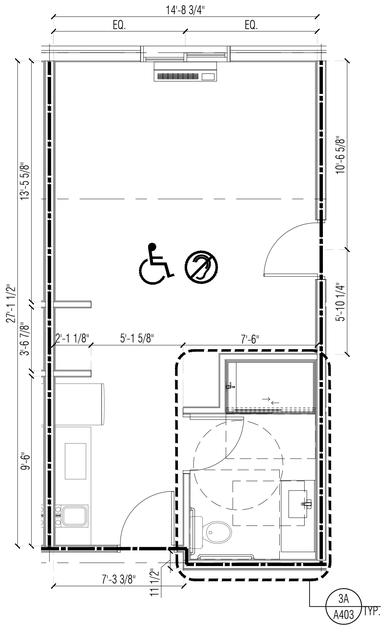
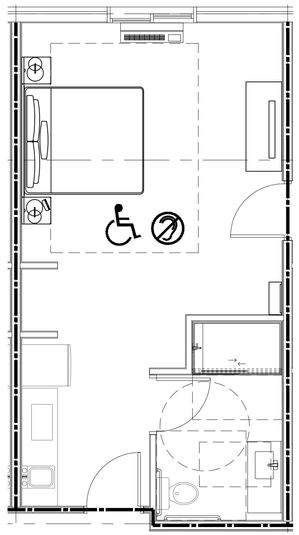
DRAWING NAME
ELEVATIONS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

**A301**




FLOOR PLAN

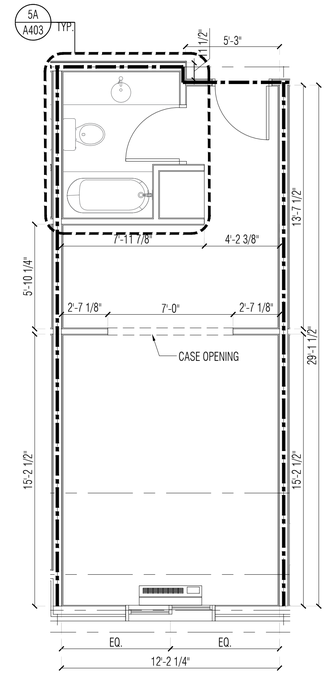


FURNITURE PLAN

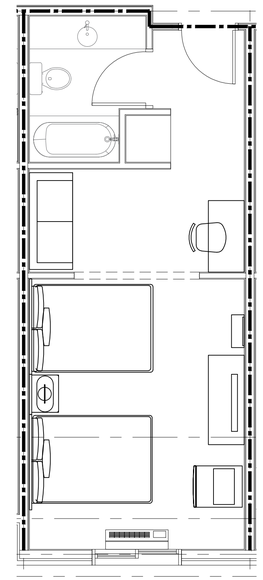
1C KING W/ KITCHEN ADA

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

ROOM NO. #2-09




FLOOR PLAN



FURNITURE PLAN

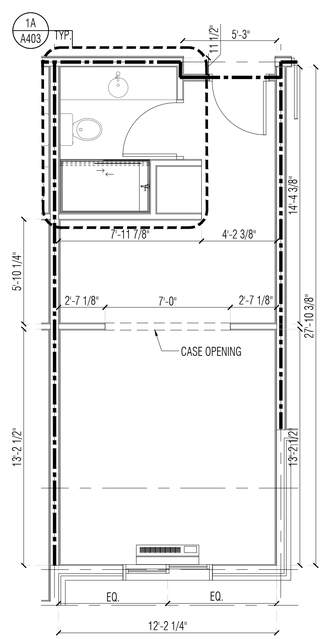
2C DOUBLE QUEEN

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

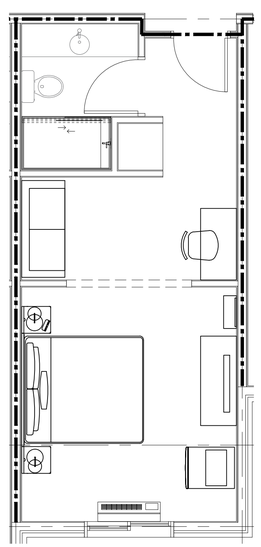
ROOM NO. #1-06

GENERAL NOTES

1. REFER TO BUILDING PLANS FOR LOCATION OF GUEST ROOM TYPES.
2. ALL DIMENSIONS ARE FROM STUD WALL TO STUD WALL. U.N.O.
3. ADA COMPONENTS AND DIMENSIONS TO BE VERIFIED BY AOR
4. REFER TO A600 FOR PARTITION TYPES




FLOOR PLAN

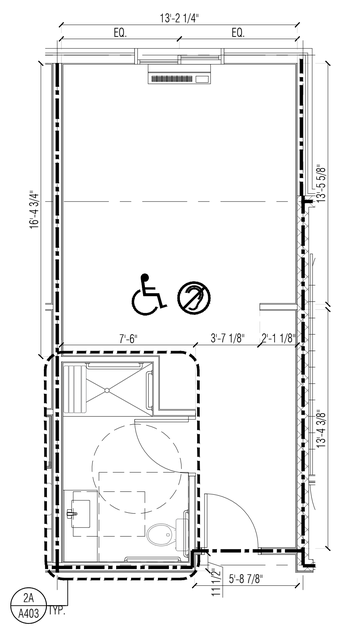


FURNITURE PLAN

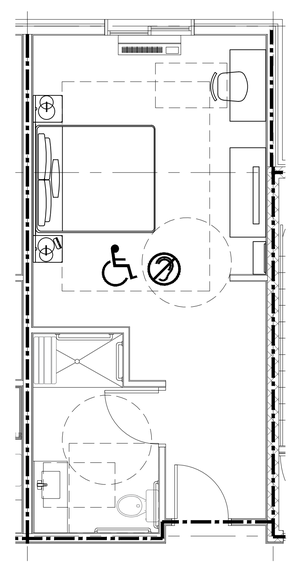
1A KING ROOM

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

ROOM NO. #1-10




FLOOR PLAN

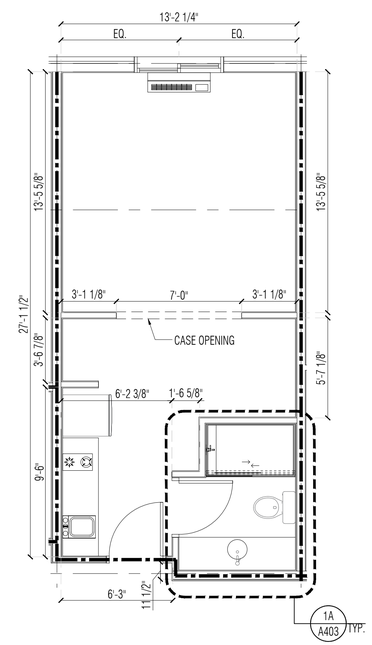


FURNITURE PLAN

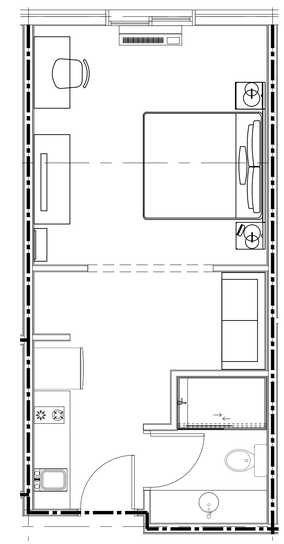
2A KING R.I.S.

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

ROOM NO. #1-09




FLOOR PLAN



FURNITURE PLAN

4A KING W/ KITCHEN

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

ROOM NO. #1-07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DRAWING NAME

ENLARGED GUESTROOM PLANS

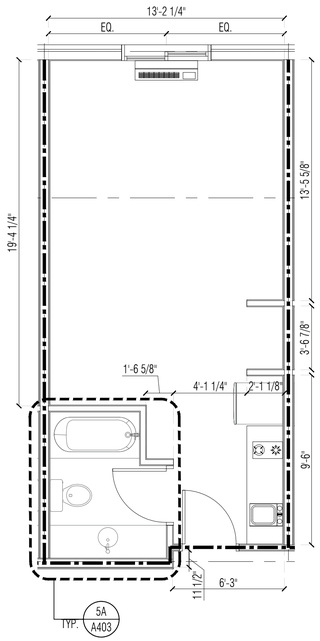
DRAWN BY: KEYA

CHECKED BY:

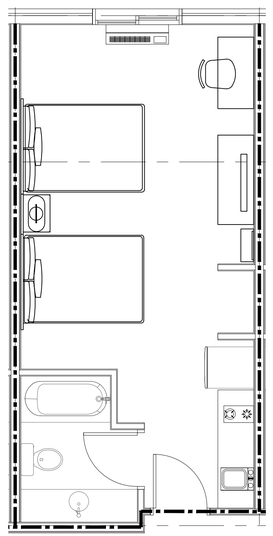
APPROVED BY:

DRAWING NUMBER:

**A401**




FLOOR PLAN

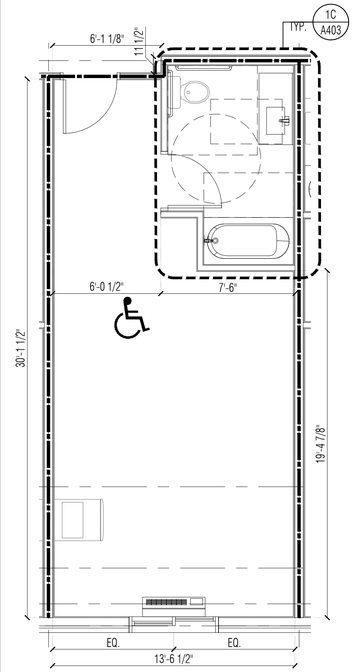


FURNITURE PLAN

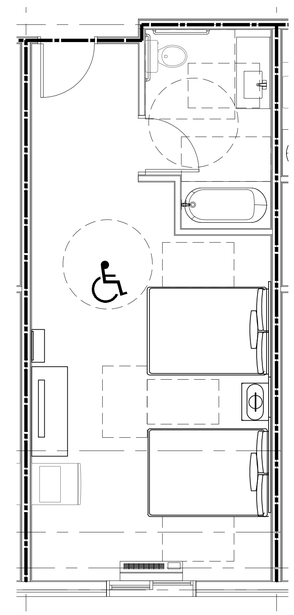
## 1C DOUBLE QUEEN W/ KITCHEN

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

ROOM NO. #2-01




FLOOR PLAN



FURNITURE PLAN

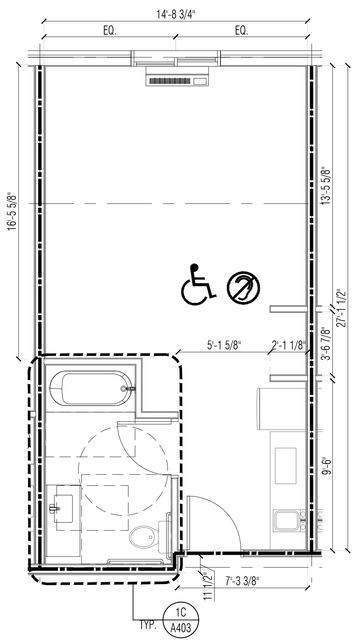
## 3C DOUBLE QUEEN ADA

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

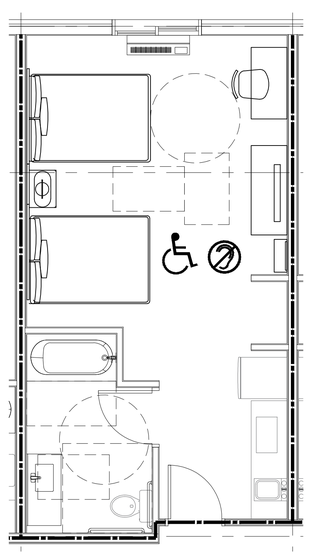
ROOM NO. #2-10

GENERAL NOTES

1. REFER TO BUILDING PLANS FOR LOCATION OF GUEST ROOM TYPES.
2. ALL DIMENSIONS ARE FROM STUD WALL TO STUD WALL. U.N.O.
3. ADA COMPONENTS AND DIMENSIONS TO BE VERIFIED BY AOR
4. REFER TO A600 FOR PARTITION TYPES




FLOOR PLAN

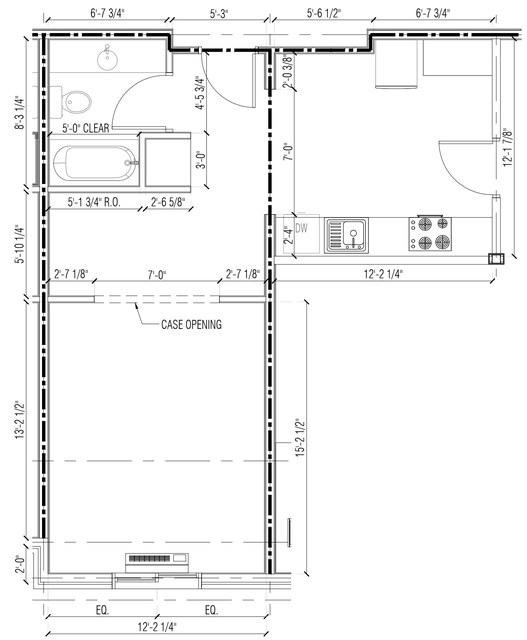


FURNITURE PLAN

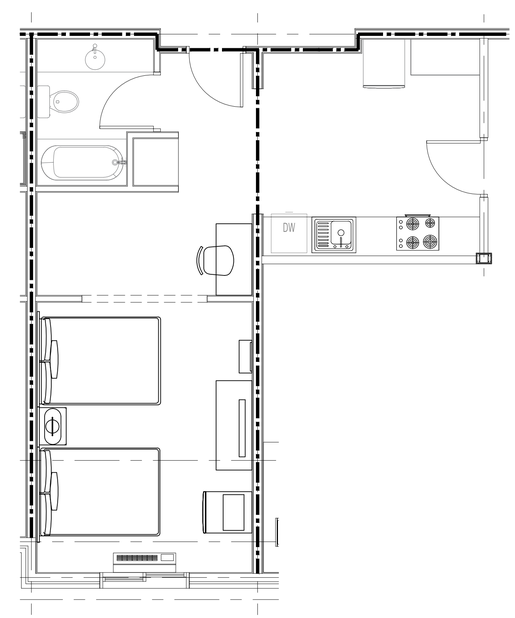
## 1A DOUBLE QUEEN W/ KITCHEN ADA

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

ROOM NO. #2-07




FLOOR PLAN




FURNITURE PLAN

## 3A MANAGER'S APARTMENT

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

ROOM NO. #1-02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SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 8852 03/01/2024 NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

ENLARGED GUESTROOM PLANS

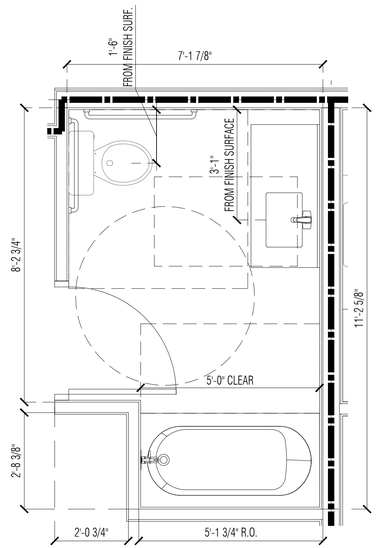
DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

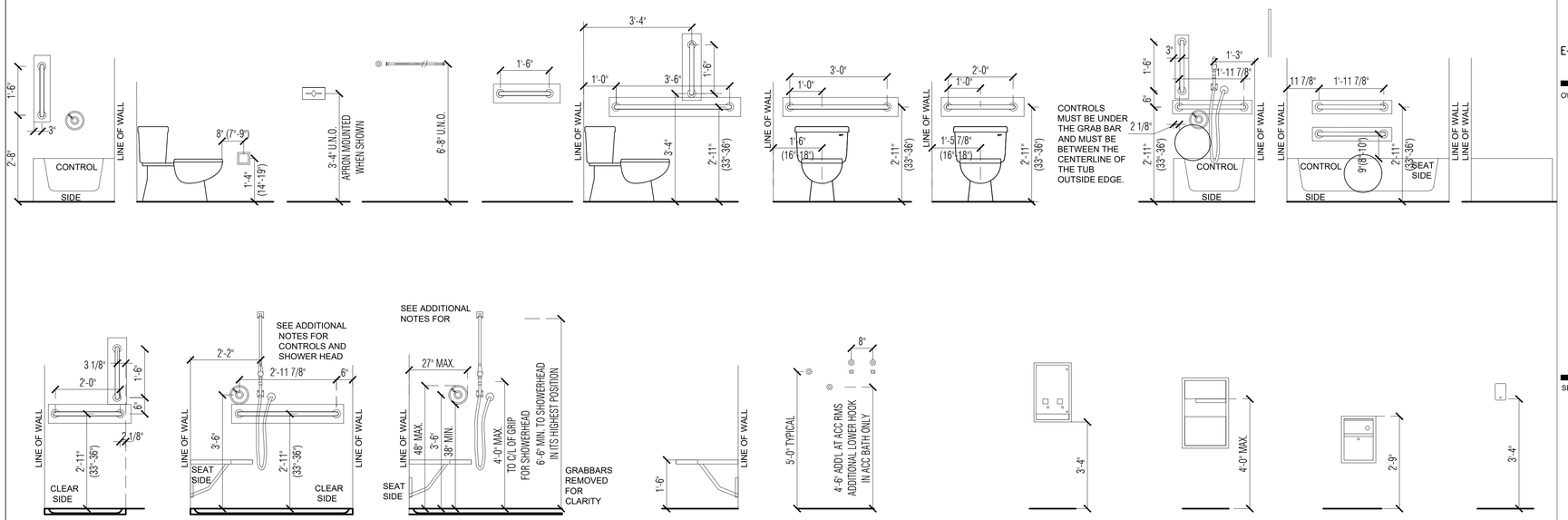
**A402**




NOTE: ALL DIMENSIONS ARE FROM STUD WALL TO STUD WALL. U.N.O.

## 1C DOUBLE QUEEN ADA OR DOUBLE QUEEN W/ KITCHEN ADA

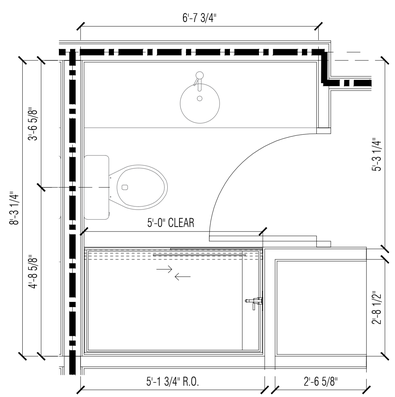
SCALE: 1/2" = 1'-0"




NOTE:
1. PROVIDE WOOD BLOCKING FOR ALL TOILET ACCESSORIES MOUNTED IN GYP. BD. PARTITIONS. MAINTAIN INTEGRITY OF FIRE RATING WHERE ACCESSORIES ARE IN RATED WALLS
2. WHERE DIMENSIONS ARE GIVE IN PARENTHESES THIS IS THE ACCEPTABLE RANGE PER ADA. NO TOLERANCES ARE ALLOWED OUTSIDE THE RANGE.
3. EVERY ATTEMPT HAS BEEN MADE TO ENSURE THAT THE MAKE AND MODEL OF THE FIXTURES HERE IS CORRECT BASED ON PROTOTYPE SPECIFIC REQUIREMENT. COORDINATION WITH CURRENT PROTOTYPE FIXTURE WILL STILL BE REQUIRED AND IS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

## 2C TOILET ACCESSORIES MOUNTING HEIGHTS

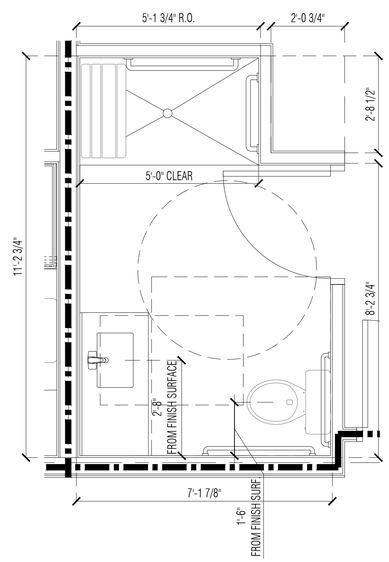
SCALE: 1/2" = 1'-0"




NOTE: ALL DIMENSIONS ARE FROM STUD WALL TO STUD WALL. U.N.O.

## 1A KING OR KING W/ KITCHEN

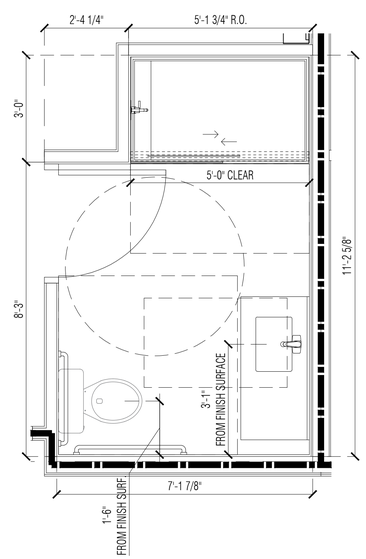
SCALE: 1/2" = 1'-0"




NOTE: ALL DIMENSIONS ARE FROM STUD WALL TO STUD WALL. U.N.O.

## 2A KING ADA R.I.S

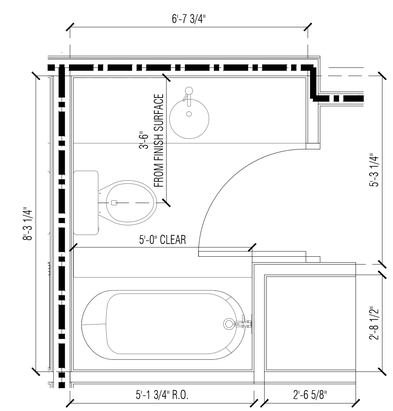
SCALE: 1/2" = 1'-0"




NOTE: ALL DIMENSIONS ARE FROM STUD WALL TO STUD WALL. U.N.O.

## 3A KING W/ KITCHEN ADA

SCALE: 1/2" = 1'-0"




NOTE: ALL DIMENSIONS ARE FROM STUD WALL TO STUD WALL. U.N.O.

## 5A DOUBLE QUEEN OR DOUBLE QUEEN W/ KITCHEN

SCALE: 1/2" = 1'-0"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| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

ENLARGED GUESTROOM - BATHROOM PLANS

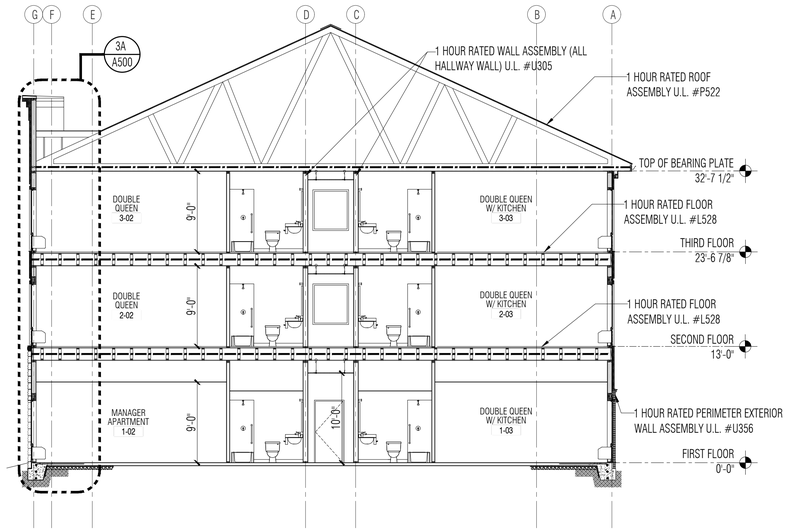
DRAWN BY: KEYA

CHECKED BY:

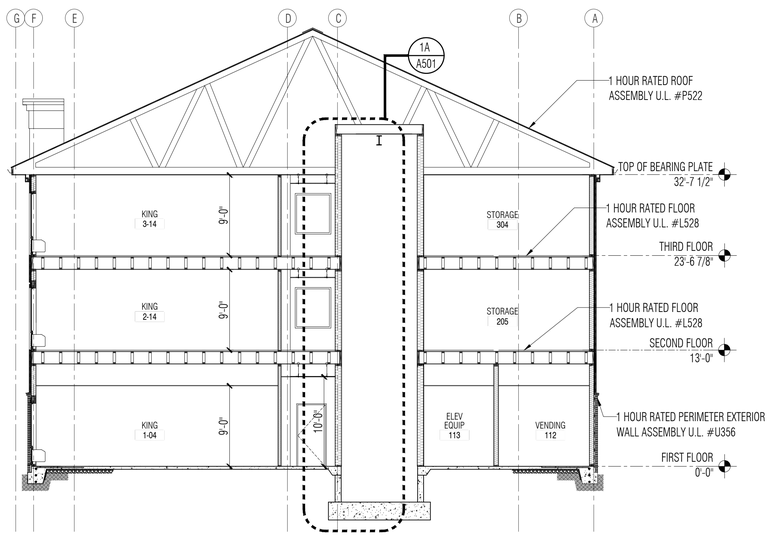
APPROVED BY:

DRAWING NUMBER:

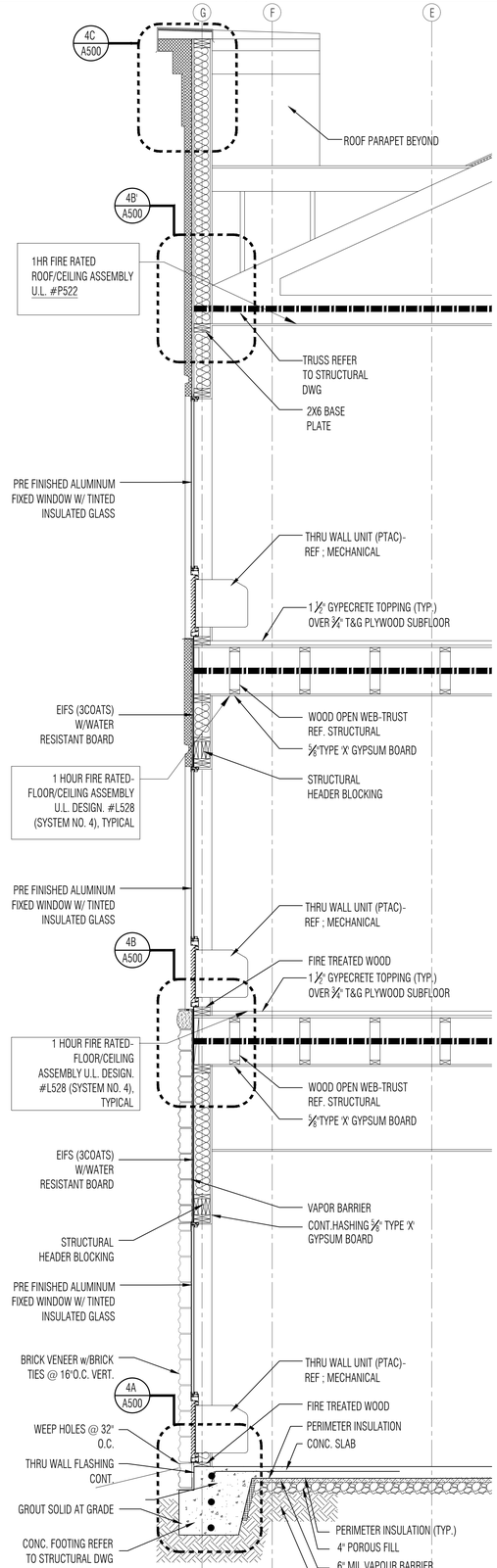
**A403**



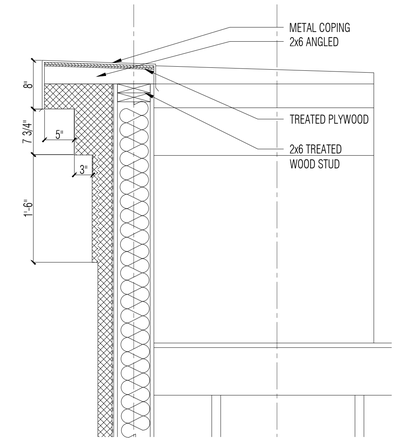

1C BUILDING SECTION
SCALE 1/8"=1'-0"



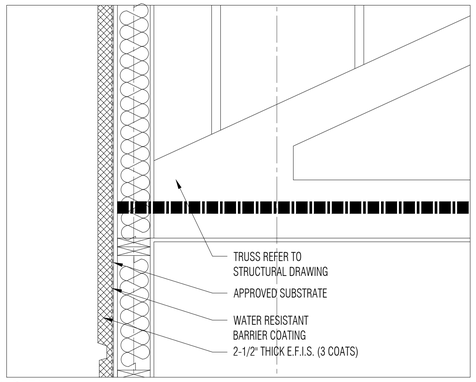

1B BUILDING SECTION @ ELEVATOR
SCALE 1/8"=1'-0"



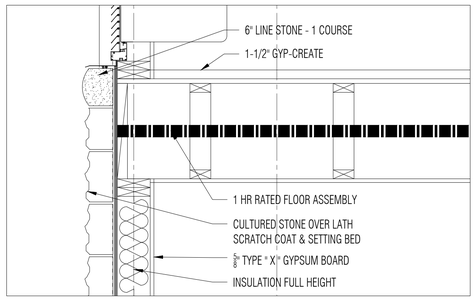

3A SECTION
SCALE 1/2"=1'-0"




4C SECTION DETAIL
SCALE 1"=1'-0"




4B' SECTION DETAIL
SCALE 1"=1'-0"




4B SECTION DETAIL
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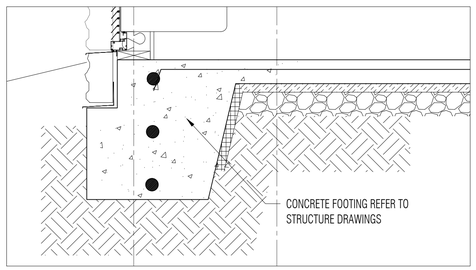


4A SECTION DETAIL
SCALE 1"=1'-0"


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MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

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DRAWING NAME

SECTIONS

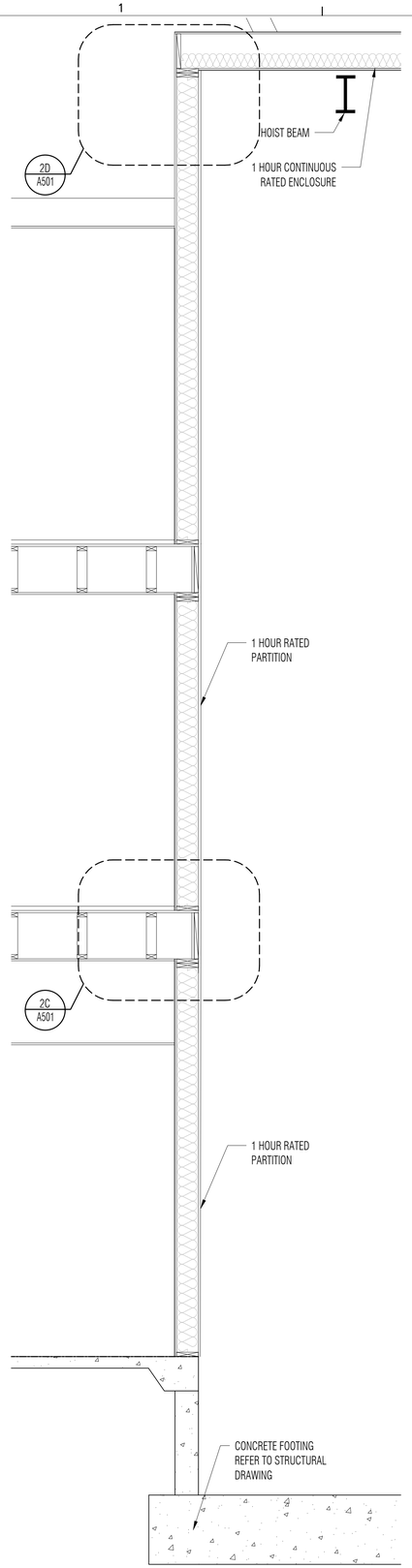
DRAWN BY: KEYA

CHECKED BY:

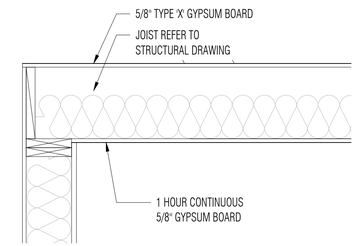
APPROVED BY:

DRAWING NUMBER:

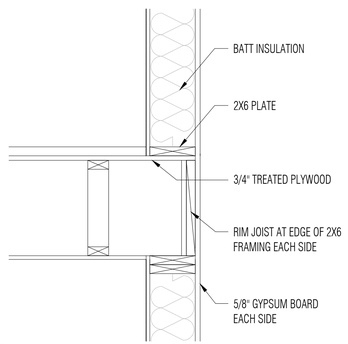
**A500**



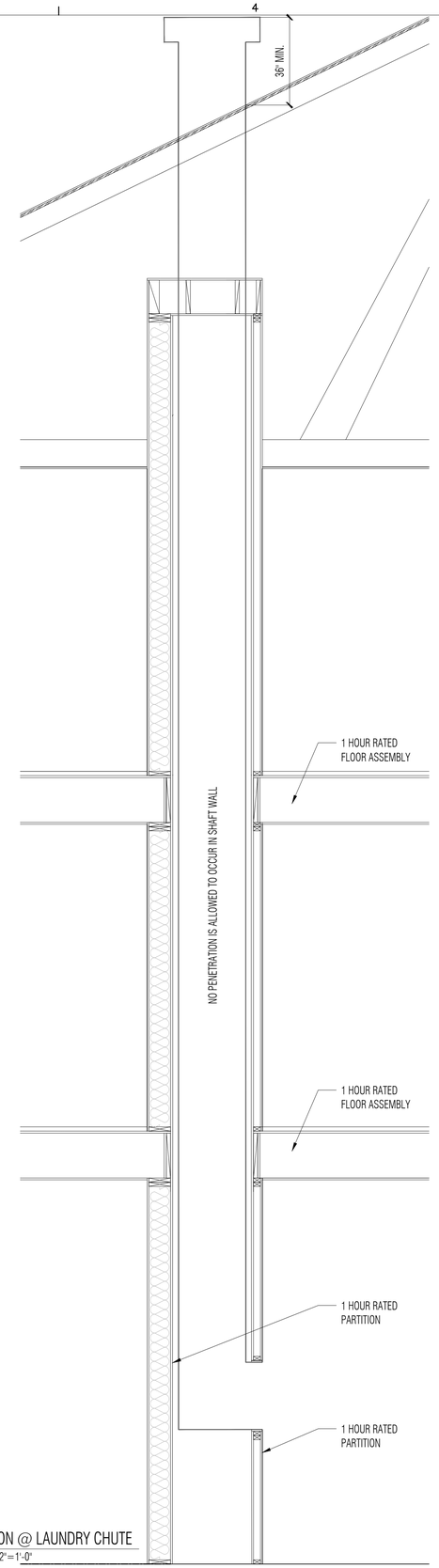

1A SHAFT WALL @ ELEVATOR
SCALE 1/2"=1'-0"



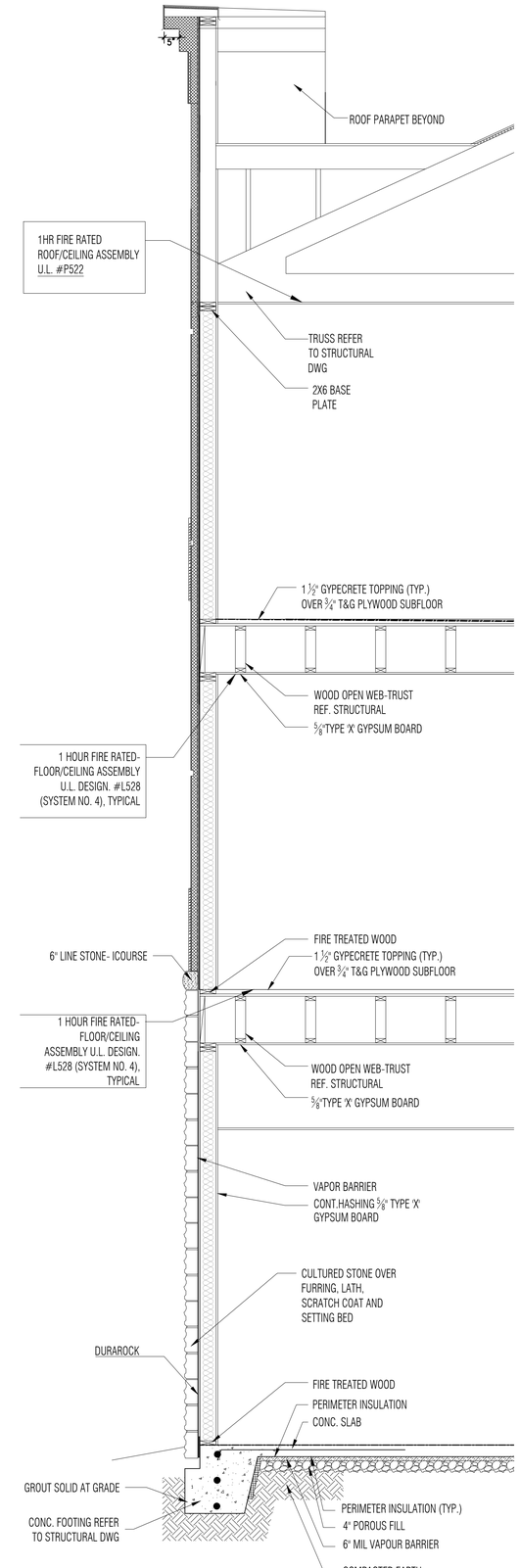

2D DETAIL
SCALE 1"=1'-0"




2C DETAIL
SCALE 1"=1'-0"




3A SECTION @ LAUNDRY CHUTE
SCALE 1/2"=1'-0"




4A SECTION @ EXTERIOR
SCALE 1/2"=1'-0"


**DESIGN GROUP, LLC.**

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OWNER NAME AND ADDRESS

INDEPENDENT
HOTEL

AT

HIGHWAY 140,
OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 6862
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

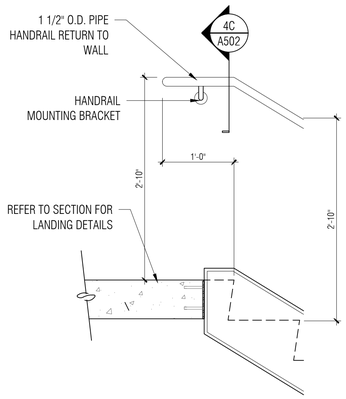
CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME
SECTIONS

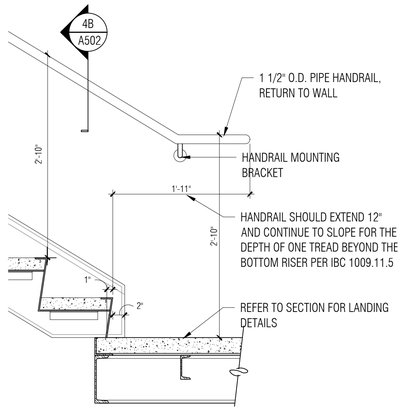
DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:

DRAWING NUMBER:
**A501**



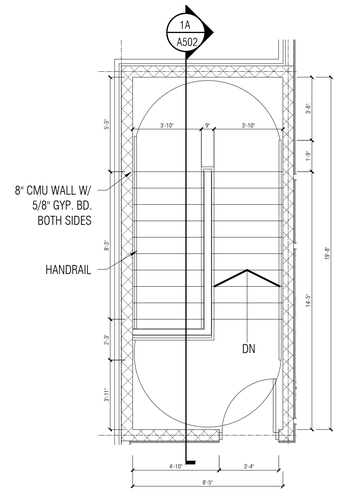

1D SECTION DETAIL@TOP LANDING

SCALE 1"=1'-0"




2D SECTION DETAIL@BOTTOM LANDING

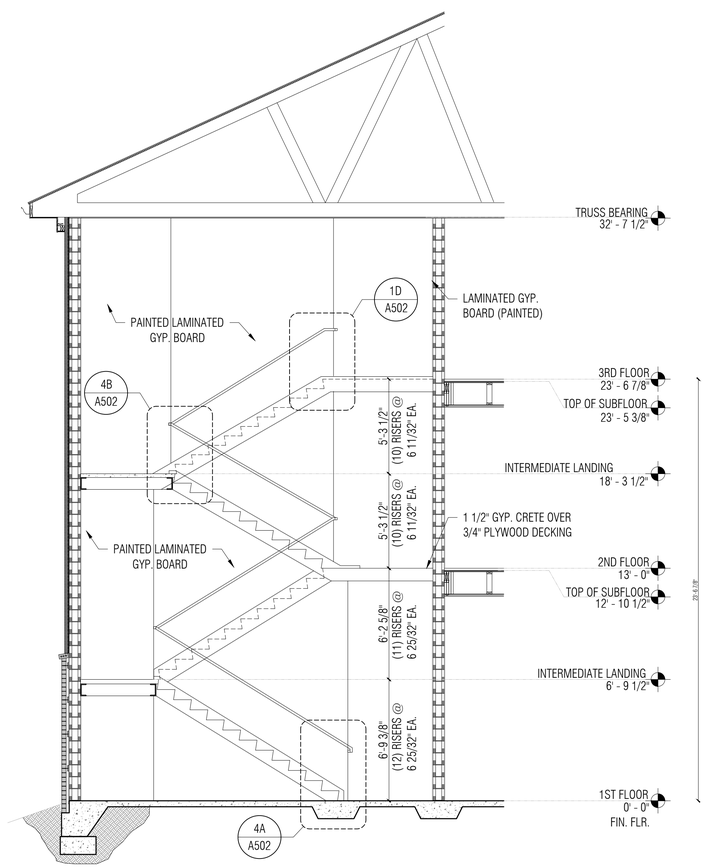
SCALE 1"=1'-0"




3D ENLARGE PLAN STAIR-1 THIRD FLOOR

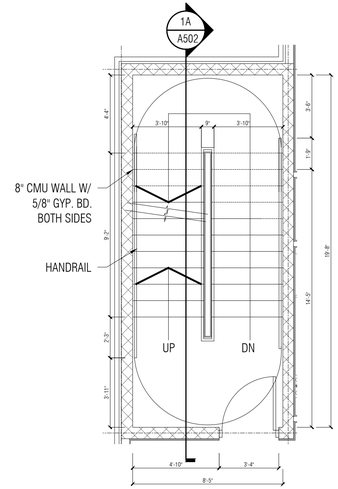
SCALE 1/4"=1'-0"

NOTE:
PICKETS AND GUARDRAIL NOT SHOWN FOR CLARITY



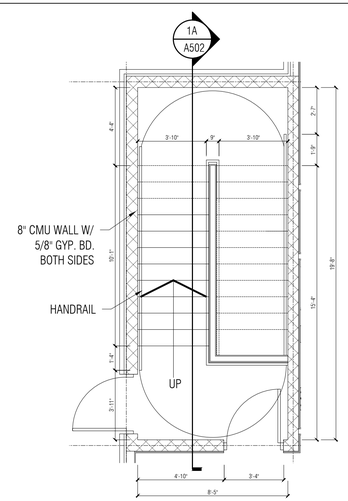

1A SECTION @ STAIR-1

SCALE 1/4"=1'-0"




3B ENLARGE PLAN STAIR-1 SECOND FLOOR

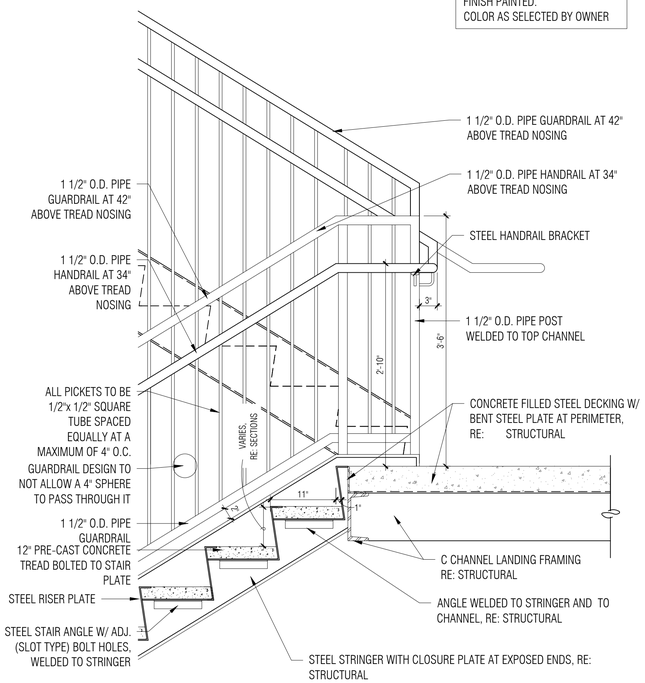
SCALE 1/4"=1'-0"




3A ENLARGE PLAN STAIR-1 FIRST FLOOR

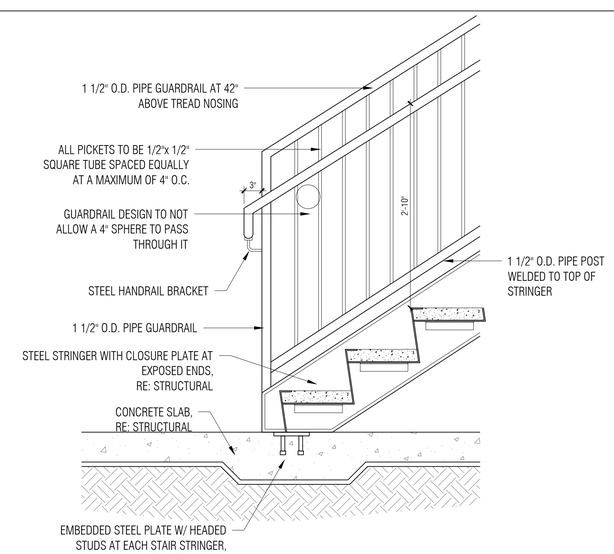
SCALE 1/4"=1'-0"

CHANNELS SHALL BE PRIMED AND FINISH PAINTED.
COLOR AS SELECTED BY OWNER




4B SECTION DETAIL@MID LANDING

SCALE 1"=1'-0"




4A SECTION DETAIL@BOTTOM LANDING

SCALE 1"=1'-0"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SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 6852
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

STAIR - 01
PLANS, SECTIONS AND DETAILS

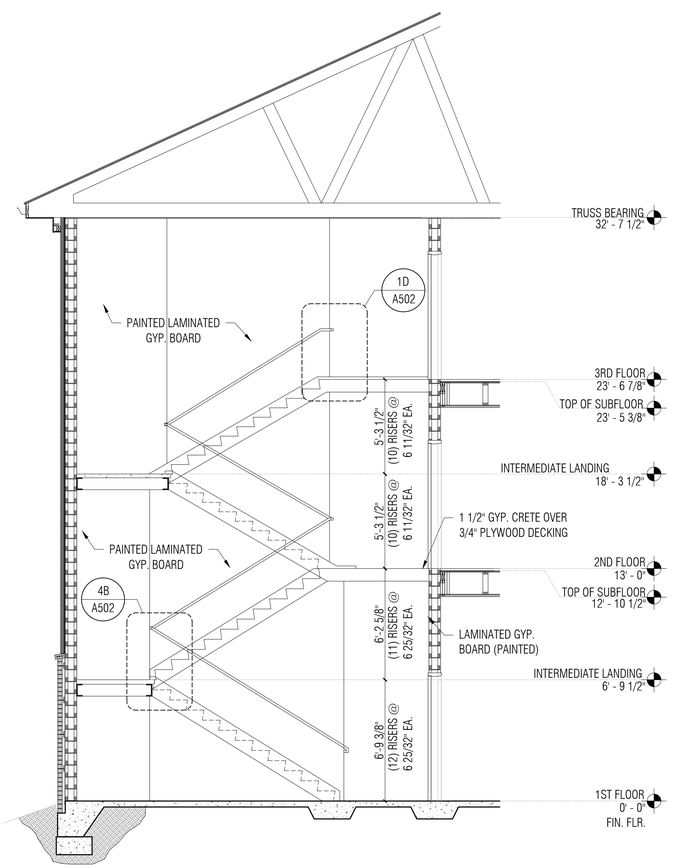
DRAWN BY: KEYA

CHECKED BY:

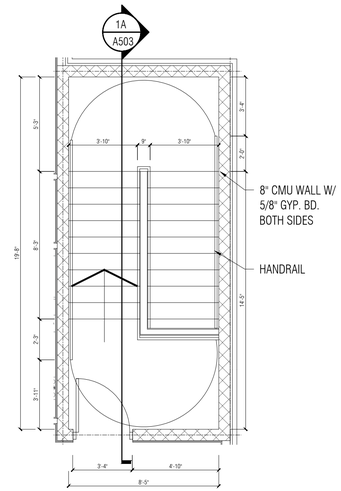
APPROVED BY:

DRAWING NUMBER:

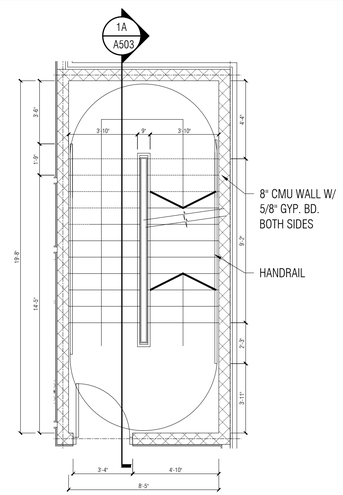
**A502**



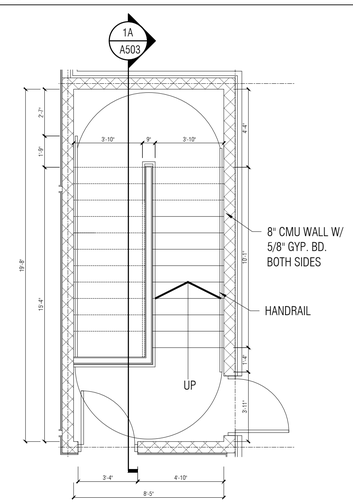

1A SECTION @ STAIR-2
SCALE 1/4"=1'-0"



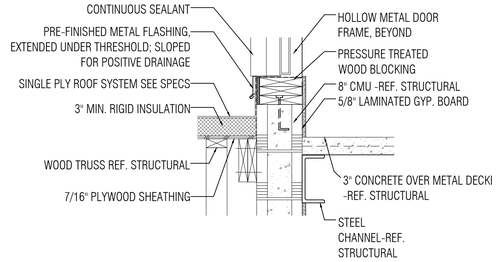

3D ENLARGE PLAN STAIR-2 THIRD FLOOR
SCALE 1/4"=1'-0"



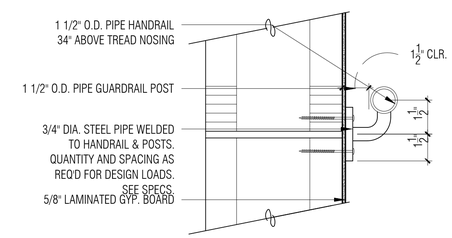

3B ENLARGE PLAN STAIR-2 SECOND FLOOR
SCALE 1/4"=1'-0"



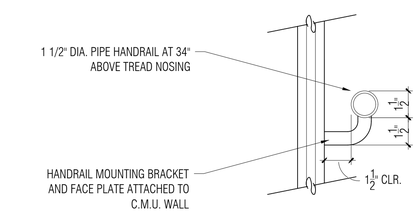

3A ENLARGE PLAN STAIR-2 FIRST FLOOR
SCALE 1/4"=1'-0"



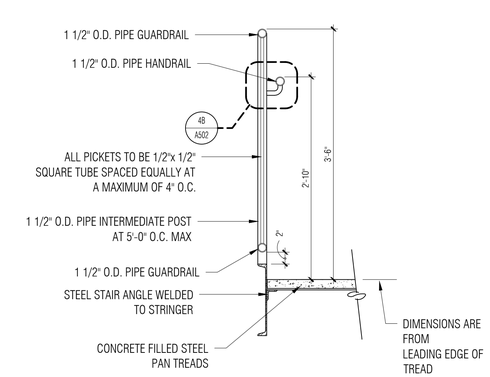

4D SECTION DETAIL @ DOOR THRESHOLD
SCALE 1"=1'-0"




4C DETAIL- HANDRAIL AT CMU WALL
SCALE 1"=1'-0"




4B DETAIL-HANDRAIL AT STUD WALL
SCALE 1"=1'-0"




4A DETAIL- GUARDRAIL AT STAIR
SCALE 1"=1'-0"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STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 5852
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
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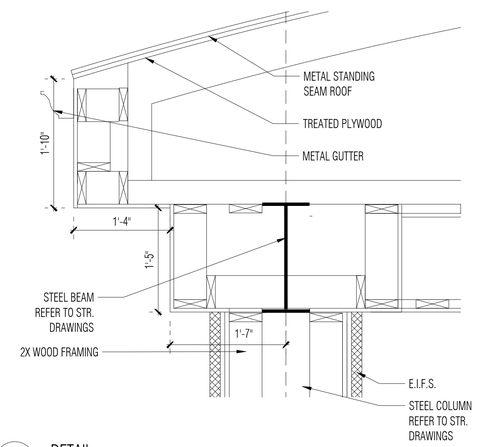
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

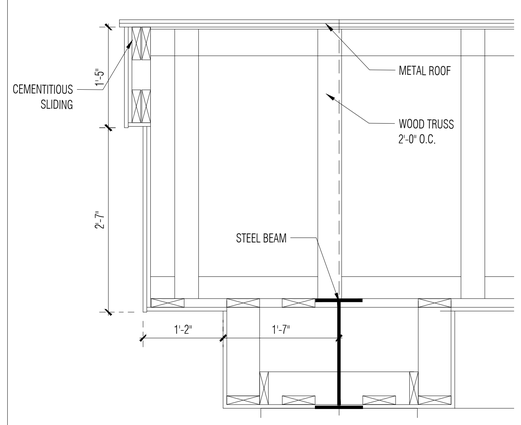
STAIR- 02
PLANS, SECTIONS
AND DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

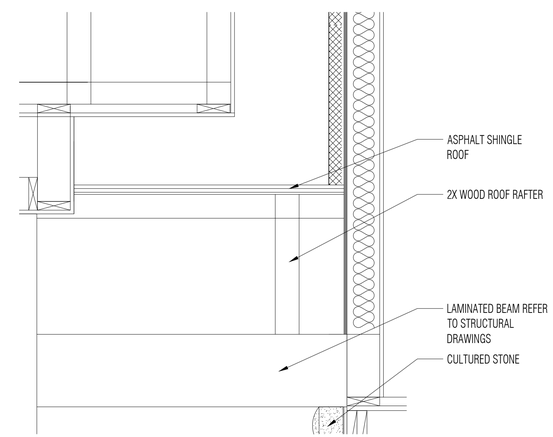
**A503**



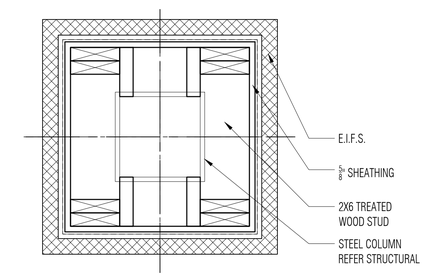

1B DETAIL
SCALE: 1" = 1'-0"



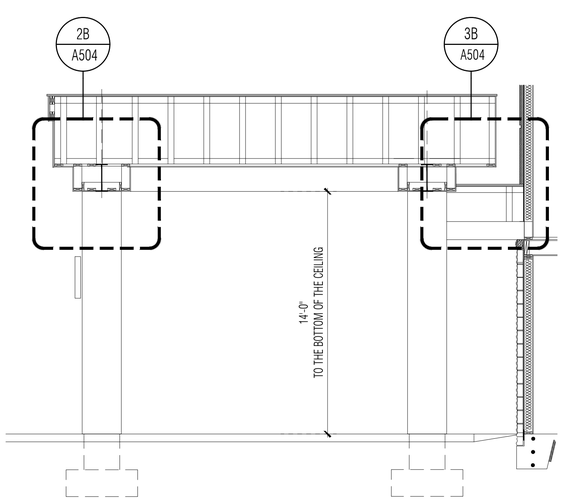

2B DETAIL
SCALE: 1" = 1'-0"



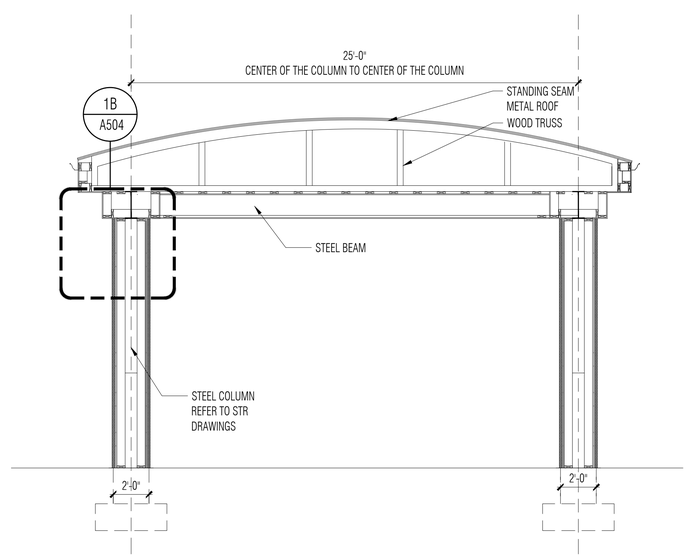

3B DETAIL
SCALE: 1" = 1'-0"



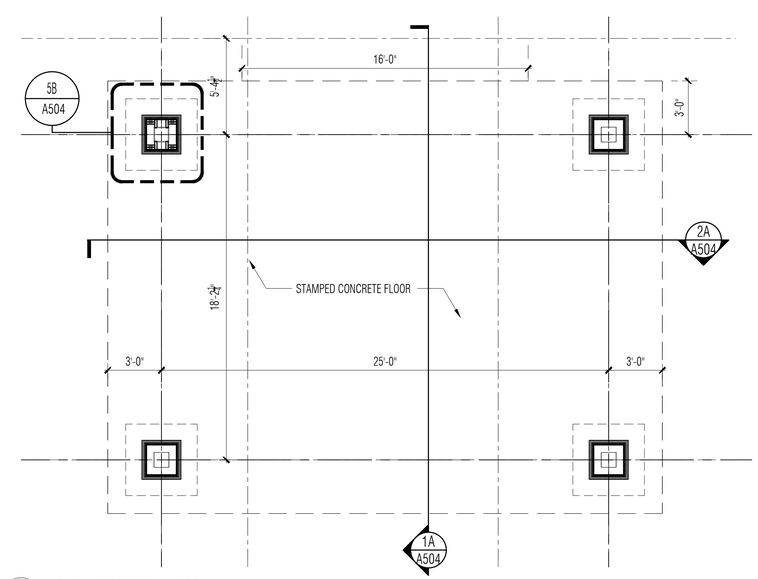

5B PLAN- COLUMN
SCALE: 1/4" = 1'-0"




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




2A SECTION - PORTE COCHERE
SCALE: 1/4" = 1'-0"




4A PLAN- PORTE COCHERE
SCALE: 1/4" = 1'-0"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SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT 03/01/2024 NO. 5852 NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

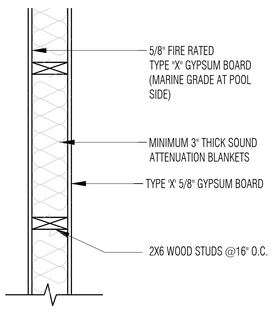
DRAWING NAME

PORTE COCHERE DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:

DRAWING NUMBER:

**A504**

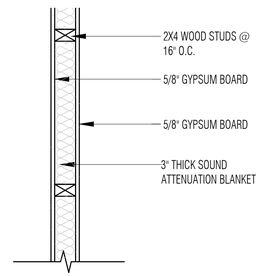



WALL TYPES

- 5 — UL # U306 2X6 STUD w/ SOUND BATT
- 5A — UL # U306 2X6 STUD w/o SOUND BATT
- 5B — UL # U306 2X4 STUD w/ SOUND BATT
- 5C — UL # U306 2X4 STUD w/0 SOUND BATT

1C UL #U305 1HR FIRE RATED WALL

SCALE 1"=1'-0"



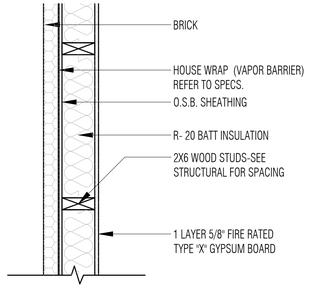

WALL TYPES

- 6 — NON RATED - 2X6 STUD w/ SOUND BATT
- 6A — NON RATED 2X6 STUD w/o SOUND BATT
- 6B — NON RATED 2X4 STUD w/ SOUND BATT
- 6C — NON RATED 2X4 STUD w/0 SOUND BATT

3C NON RATED WALL

SCALE 1"=1'-0"

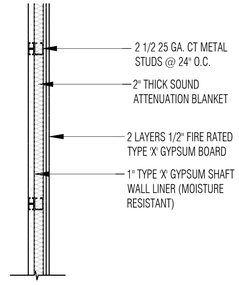
NOTE: USE MOISTURE RESISTANCE GREEN BOARD AT ALL WET AREA INCLUDING @ SHOWERS/TUB




WALL TYPE 1A

1B UL #U356 1HR RATED EXTERIOR WALL

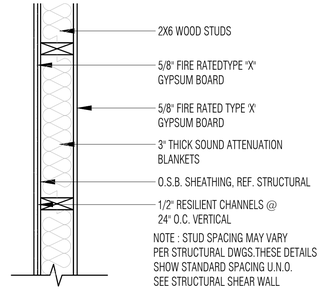
SCALE 1"=1'-0"




WALL TYPE 2

2B UL #U428 1HR RATED SHAFT

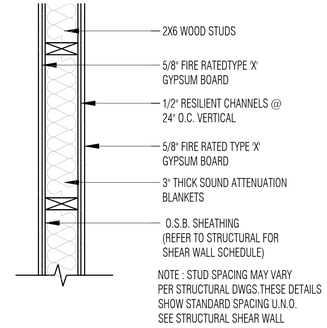
SCALE 1"=1'-0"




WALL TYPE 3

3B UL U305 1HR INTERIOR CORRIDOR WALL

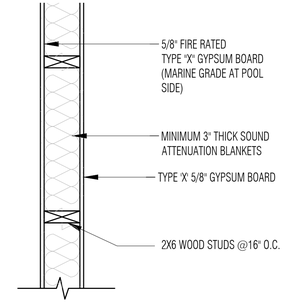
SCALE 1"=1'-0"




WALL TYPE 4A

4B UL #U311 1HR GUESTROOM SEPARATION

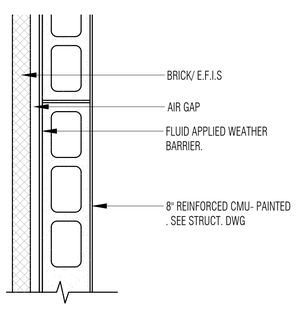
SCALE 1"=1'-0"




WALL TYPE 8

5B UL #U311 1HR WALL

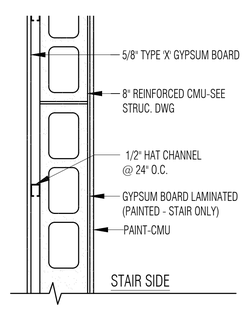
SCALE 1"=1'-0"




WALL TYPE C2

1A UL #U905 1HR

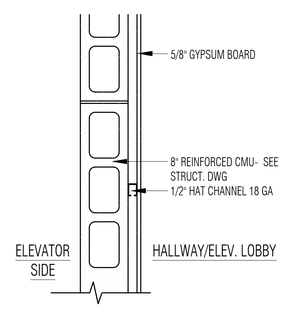
SCALE 1"=1'-0"




WALL TYPE C3

2A UL #U905 1HR

SCALE 1"=1'-0"




WALL TYPE C5

3A UL #U905 1HR

SCALE 1"=1'-0"

WALL TYPE NOTE

1. MOISTURE RESISTANT ON ALL WET AREA
2. EXTEND ALL SOUND AND FIRE RATED WALLS UP TO UNDERSIDE OF WOOD FLOOR OR ROOF SYSTEM, INCLUDING INSULATION AND GYPSUM WALL BOARD, ARE TO EXTEND TO UNDERSIDE OF WOOD FLOOR OR ROOF SYSTEM. PERIMETER SEALING AND BEDDING OF ELECTRICAL BOXES AND OUTLETS IS REQUIRED. STAGGER JOINTS IN GYPSUM BOARD.
3. ALL BATT INSULATION INSIDE INTERIOR WALLS SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN 75. INTERIOR FINISHES IN EXIT WAYS AND CORRIDORS SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN 25. CARPET IN THESE AREAS SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN 75. SMOKE DEVELOPMENT FOR INSULATION, CARPET AND FINISHES IN THESE AREAS SHALL NOT EXCEED 450.
4. PROVIDE ACOUSTICAL SEALANT AT FLOOR AND CEILING OF CORRIDOR AND DIVISION WALLS, ALL WALLS WITH SOUND ATTENUATION BLANKETS.
5. CORRIDOR WALL, SMOKE STOP WALLS, HORIZONTAL EXIST WALL, EXIT ENCLOSURES AND FIRE WALL SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN A MANNER ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION SUCH IDENTIFICATION SHALL BE ABOVE A DECORATIVE CEILING AND IN CONCEALED SPACES. SUGGESTED WORDS 'FIRE AND SMOKE BARRIER PROTECT ALL OPENING'
6. G.C. TO PROVIDE WOOD BLOCKING OR EQ. SOLID ATTACHMENT MATERIAL FOR ATTACHMENTS OF ALL FIXTURES,FITTINGS AND ACCESSORIES.
7. PENETRATIONS OR OPENINGS IN CONSTRUCTION ASSEMBLIES FOR PIPING, ELECTRICAL DEVICES, RECESSED CABINETS, BATHTUBS, SOFFITS OR HEATING, VENTILATING OR EXHAUST DUCTS SHALL BE SEALED, LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE REQUIRED RATINGS. (IBC 2006, SECTION1207.2 AIR- BORNE SOUND)

NOTE TO GC:

1. IT IS GC'S RESPONSIBILITY TO REFER TO 'FIRE RATED UL DETAILS' SHEETS (UL 101 TO UL109) IN ADDITION TO A600 FOR WALL TYPE INFORMATION. IN CASE OF ANY DISCREPANCIES, GC TO NOTIFY ARCHITECT,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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

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|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

WALL TYPES AND NOTES

DRAWN BY: KEYA

CHECKED BY:

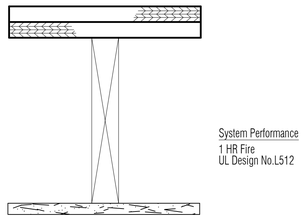
APPROVED BY:

DRAWING NUMBER:

**A600**

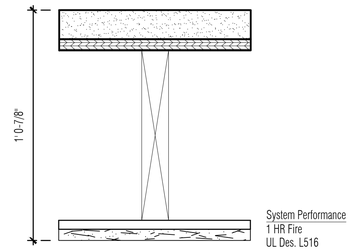
ASSEMBLY NOTES:
1. SPRAY FIREPROOFING IS PROPRIETARY AND MUST BE SPRAYED AT MANUFACTURE'S REQUIRED THICKNESS FOR THE EXACT SPECIFIC BEAMS DEFINED.
2. COLUMNS EXPOSED TO THE EXTERIOR REQUIRE THE USE OF UL#X630

1D FIRE PROTECTION @COLUMN (UL #X633)
SCALE 1-1/2"=1'-0"




SYSTEM DESCRIPTION
FLOOR CEILING ASSEMBLY
1" NOMINAL WOOD SUB FLOOR AND 1" WOOD FINISH FLOOR
2"X 10" WOOD JOIST 16" O.C.
1/2" OR 5/8" SHEETROCK BRAND GYPSUM PANEL, FIRECODE C CORE
ESTIMATED CEILING WEIGHT - 3 LB/SF

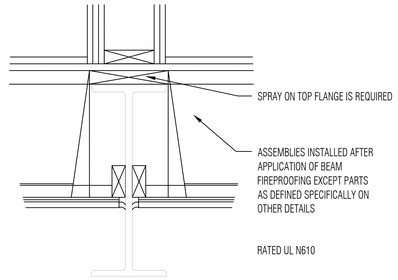
2D 1 HR RATED ROOF/ CEILING ASSEMBLY
SCALE 3"=1'-0"




SYSTEM DESCRIPTION
DIMENSIONAL LUMBER

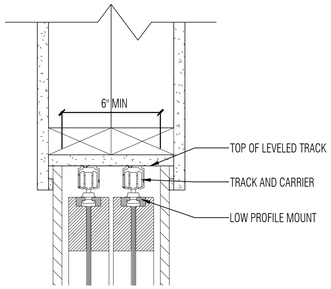
- 1-5/8" PERLITE-SAND CONCRETE
- PLYWOOD SUBFLOOR
- 2X10 JOISTS 16" O.C.
- RC-1 CHANNEL OR EQUIVALENT
- 5/8" SHEETROCK BRAND FIRECODE C CORE GYPSUM PANELS
- JOINTS FINISHED

3D 1 HR RATED ROOF/ CEILING ASSEMBLY
SCALE 3"=1'-0"

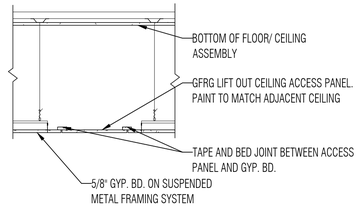



ASSEMBLY NOTES:
1. SPRAY FIREPROOFING IS PROPRIETARY AND MUST BE SPRAYED AT MANUFACTURE'S REQUIRED THICKNESS FOR THE EXACT SPECIFIC BEAMS DEFINED.

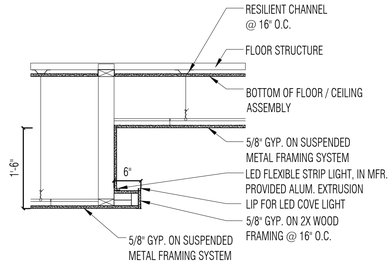
4D FIRE PROTECTION @BEAM (UL #N610)
SCALE 1-1/2"=1'-0"



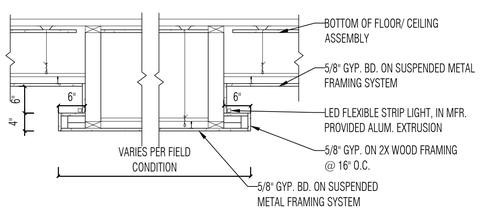

1C SLIDING DOOR @ BREAKFAST
SCALE 3"=1'-0"



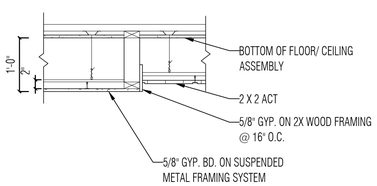

2C CEILING DETAIL @ ACCESS PANEL
SCALE 3/4"=1'-0"



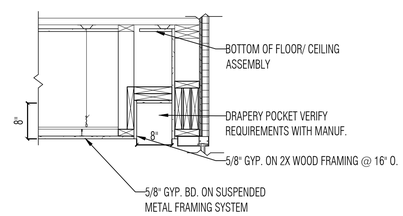

3C CEILING DETAIL @ REGISTRATION
SCALE 3/4"=1'-0"



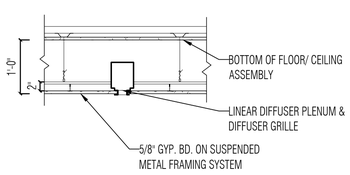

1B CEILING DETAIL @ LOBBY CLOUD
SCALE 3/4"=1'-0"



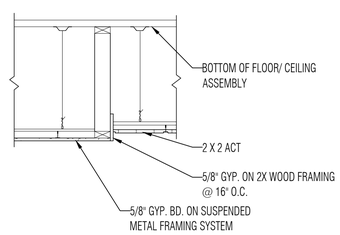

2B CEILING DETAIL @ LOBBY UPPER
SCALE 3/4"=1'-0"



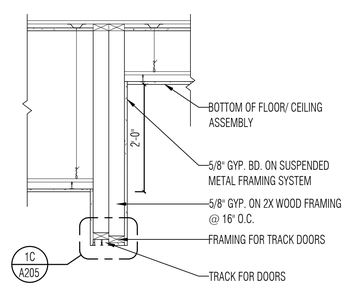

3B CEILING DETAIL @ DRAPERY
SCALE 3/4"=1'-0"




1A CEILING DETAIL@ LOBBY CLOUD LIGHT
SCALE 3/4"=1'-0"




2A CEILING DETAIL @ LOBBY LEVEL
SCALE 3/4"=1'-0"




3A CEILING DETAIL @ BREAKFAST
SCALE 3/4"=1'-0"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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140,
OSCEOLA, AR

SEAL

MARCH 01, 2024

CONSULTANTS NAME:

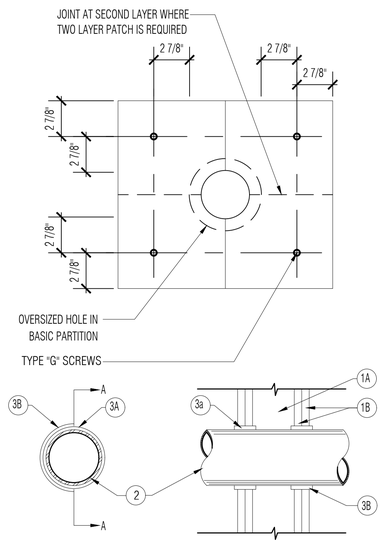
CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME
CEILING DETAILS AND ASSEMBLIES

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

**A801**



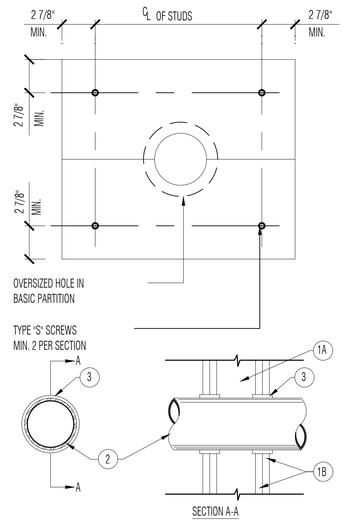

SYSTEM NO. WL2003
F RATINGS - 1 AND 2 HR. (SEE ITEMS 3)
T RATINGS - 1 AND 2 HR. (SEE ITEMS 3)
L RATING AT AMBIENT - 7 CFM/SQ. FT. (SEE ITEM 3)
L RATING AT 400 F - LESS THAN 1 CFM/SQ. FT.(SEE ITEM 3)

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER 1. DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES.
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2X4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2X4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
B. WALLBOARD, GYPSUM* - NOM 1/2 OR 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIA. OF OPENING IS 3-1/8IN.
2. NONMETALLIC PIPE - NOM. 2 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE POLYVINYL CHLORIDE (PVC) PIPE, FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. ONE PIPE TO BE CENTERED IN FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN. 1/4 IN. TO MAX. 3/8 IN. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY.

3. FIRESTOP SYSTEM - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F AND T RATINGS FOR THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE DETAILS OF THE FIRESTOP SYSTEM ARE AS FOLLOWS.
A. FILL, VOID OR CAVITY MATERIALS - WRAP STRIP - NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL SUPPLIED IN 2 IN. WIDE STRIPS. NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND NONMETALLIC PIPE (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX. 1-1/4 IN. SUCH THAT APPROX. 3/4IN. OF THE WRAP STRIP PROTRUDES FROM THE WALL SURFACE.
MINNESOTA MINING & MFG. CO. - FS-195 +.
B. FILL, VOID OR CAVITY MATERIALS - CAULK OR PUTTY - MIN. 1/4 IN. DIA CONTINUOUS BEAD APPLIED TO LEADING EDGE OF WRAP STRIP LAYER (ITEM A) PRIOR TO INSERTION OF WRAP STRIP LAYER INTO ANNULAR SPACE. AFTER INSERTION OF WRAP STRIP LAYER IN ANNULAR SPACE, A NOM 1/4 IN. DIAM. CONTINUOUS BEAD IS TO BE APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYERS APPROX. 3/4 IN. FROM THE WALL SURFACE. - CP 25WB+ CAULK OR MPS-2+ PUTTY.
MINNESOTA MINING & MFG. CO. (NOTE: L RATINGS APPLY ONLY WHEN TYPE P-25 WB+ CAULK IS USED.)

*BEARING THE UL CLASSIFICATION MARKING

1A PENETRATION DETAILS
NTS




SYSTEM NO. WL1001
F RATINGS - 1, 2, 3 AND 4 HR. (SEE ITEMS 2 & 3)
T RATINGS - 0, 1, 2, 3 AND 4 HR. (SEE ITEM3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ. FT.
L RATING AT 400 F - LESS THAN 1 CFM/SQ. FT.

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES.
A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2X4 IN. LUMBER SPACED 16" IN. OC WITH NOM 2X4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
B. WALLBOARD, GYPSUM* - NOM 1/2 OR 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAM OF OPENING IS 13-1/2 IN.

2. PIPE OR CONDUIT - NOM. 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE,, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX. F RATING OF FIRE SYSTEM (ITEM 3)IS 2H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX. OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

3. FILL, VOID OR CAVITY MATERIAL* - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN. 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.

| MAX. PIPE OR CONDUIT DIAM, IN | ANNULAR SPACE IN | F RATING HR | T RATING HR |
|---|---|---|---|
| 1 | 0 TO 3/16 | 1 OR 2 | 0+, 1 OR 2 |
| 1 | 1/4 TO 1/2 | 3 OR 4 | 3 OR 4 |
| 4 | 0 TO 1/4 | 1 OR 2 | 0 |
| 4 | 0 TO 1-1/2# | 1 OR 2 | 0 |
| 6 | 1/4 TO 1/2 | 3 OR 4 | 0 |
| 12 | 3/16 TO 3/8 | 1 OR 2 | 0 |

+ WHEN COPPER PIPE IS USED, T RATING IS 0 H.
# 0 TO 1-1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB+ CAULK IS USED AND ONLY WHEN THE MIN. THICKNESS OF THE GYPSUM WALLBOARD IS 5/8 IN. FOR 1 HR. RATED WALLS AND 1-1/4 IN. FOR 2 HR. RATED WALLS.
MINNESOTA MINING & MFG. CO. - CP 25WB+.
*BEARING THE UL CLASSIFICATION MARKING

2A PENETRATION DETAILS
NTS

## NOTES

1. REFER TO FLOOR PLANS FOR LOCATION OF SMOKE AND FIRE RATED PARTITIONS.
2. REFER TO WALL PRIORITY LEGEND FOR CONDITIONS WHERE SMOKE AND FIRE RATED PARTITIONS INTERSECT OTHER PARTITIONS.
3. NOT USED
4. PARTITIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE UL DESIGNS INDICATED. WHERE THE UL NARRATIVE REFERS TO "OPTIONS" SPECIFIC REQUIREMENTS ARE GIVEN IN THE PARTITION SECTIONS. ALTERNATES GIVEN IN THE UL NARRATIVES MAY BE USED ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
5. FIRE PARTITIONS AS INDICATED ON THE DRAWINGS SHALL BE PERMANENTLY IDENTIFIED WITH A CONTINUOUS RED LINE AND SIGNS OF STENCILING. SUCH IDENTIFICATION SHALL BE ABOVE AND DECORATIVE CEILING AND IN CONCEALED SPACES. WORDING SHALL BE AS FOLLOWS: "FIRE BARRIER - PROTECT ALL OPENINGS".
6. SMOKE PARTITIONS AS INDICATED ON THE DRAWINGS SHALL BE PERMANENTLY IDENTIFIED WITH A CONTINUOUS YELLOW LINE AND SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL BE ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES. WORDING SHALL BE AS FOLLOWS: "SMOKE BARRIER - PROTECT ALL OPENINGS".
7. ALL RATED PARTITIONS EXTEND TO THE STRUCTURE. THE "LINE OF STRUCTURE" INDICATED AT THE HEAD CONDITION IN THE PARTITION TYPES IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE THE EXACT CONSTRUCTION CONDITIONS.

   TERMINATE RATED PARTITIONS AT UNDERSIDE OF THE STRUCTURAL DECK WITH DEFLECTION TRACK AS DETAILED IN THESE DRAWINGS. PROVIDE APPROPRIATE FRAMING AND GYP BD TO OFFSET AROUND STRUCTURAL MEMBERS AND OTHER OBSTRUCTIONS SUCH AS PIPING AND DUCTWORK.
8. THE BASE CONDITION IN THE PARTITION TYPES IS DIAGRAMMATIC ONLY. REFER TO LARGE SCALE BASE DETAILS FOR EXACT CONSTRUCTION CONDITIONS..
9. ALL PARTITIONS THAT DO NOT EXTEND TO THE STRUCTURE SHALL BE BRACED.
10. USE CEMENTITOUS BOARD AT JANITOR CLOSETS.
11. USE WATER RESISTANT GYP BD AT TOILETS AND KITCHEN.

4A FIRE RATED PARTITION NOTES
NTS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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

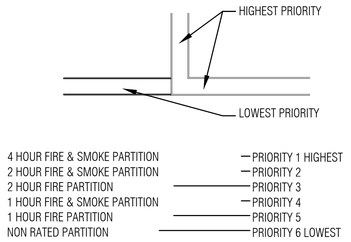
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

PENETRATION DETAILS

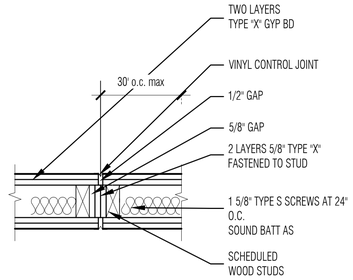
DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

**A802**




1D PARTITION PRIORITY LEGEND

SCALE 1 1/2"=1'-0"




2D EXPANSION JOINT IN TWO HOUR PARTITION

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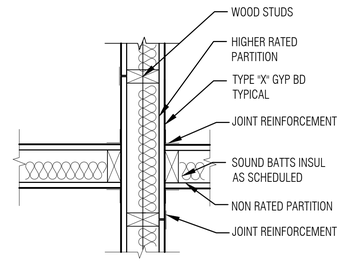
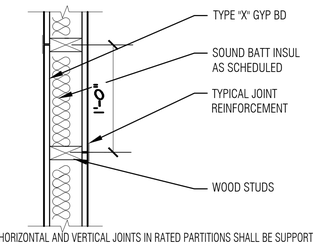



3D PARTITION INTERSECTION NON RATED AND RATED PARTITION

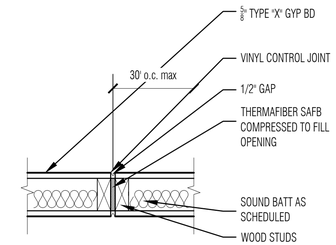
SCALE 1 1/2"=1'-0"




ALL HORIZONTAL AND VERTICAL JOINTS IN RATED PARTITIONS SHALL BE SUPPORTED BY STUDS, CRIPPLES, OR HEADERS.

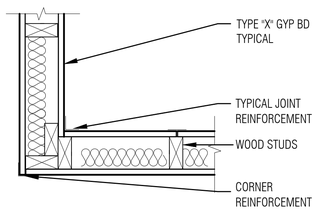
4D HORIZONTAL JOINTS IN ONE HOR RATED PARTITION

SCALE 1 1/2"=1'-0"



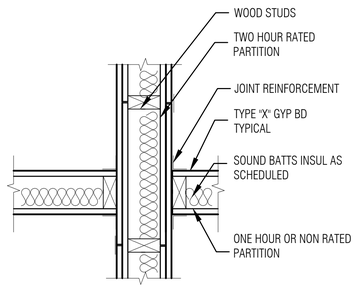

5D EXPANSION JOINTS IN NON RATED PARTITION

SCALE 1 1/2"=1'-0"




1C ONE HOUR RATED PARTITION CORNER

SCALE 1 1/2"=1'-0"




2C PARTITION INTERSECTION, NON AND TWO HR RATED PARTITION

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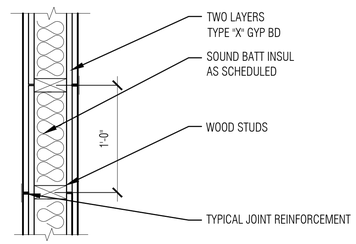
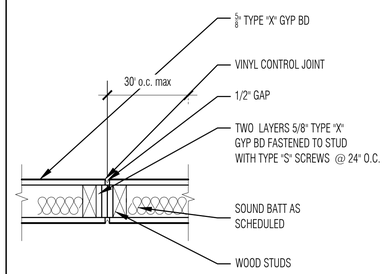



ALL HORIZONTAL AND VERTICAL JOINTS IN RATED PARTITIONS SHALL BE SUPPORTED BY STUDS, CRIPPLES, OR HEADERS.

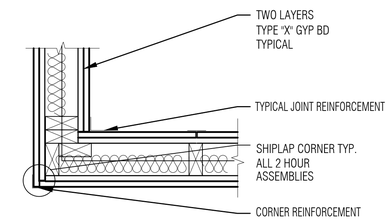
3C HORIZONTAL JOINTS IN TWO HR RATED PARTITION

SCALE 1 1/2"=1'-0"



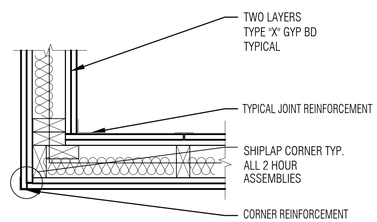

4C EXPANSION JOINTS IN ONE HR RATED PARTITION

SCALE 1 1/2"=1'-0"



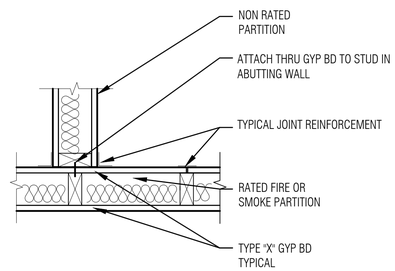

5C ONE HOUR RATED PARTITION CORNER

SCALE 1 1/2"=1'-0"



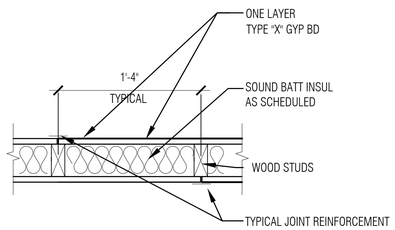

1B TWO HOUR RATED PARTITION CORNER

SCALE 1 1/2"=1'-0"




2B NON RATED PARTITION ABUTTING ONE HR RATED PART

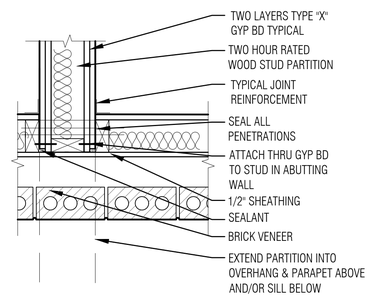
SCALE 1 1/2"=1'-0"




ALL HORIZONTAL AND VERTICAL JOINTS IN RATED PARTITIONS SHALL BE SUPPORTED BY STUDS, CRIPPLES, OR HEADERS.

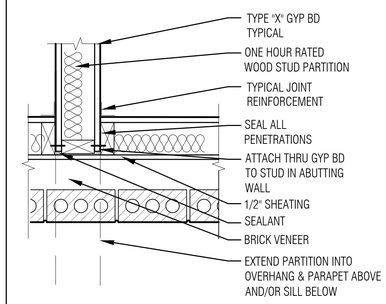
3B VERTICAL JOINTS IN ONE HR RATED PARTITION

SCALE 1 1/2"=1'-0"



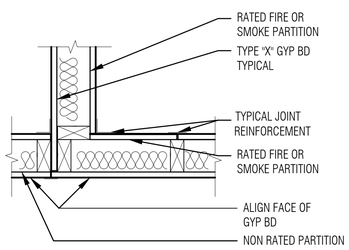

4B TWO HOUR RATED PARTITION AT EXTERIOR WALL

SCALE 1 1/2"=1'-0"



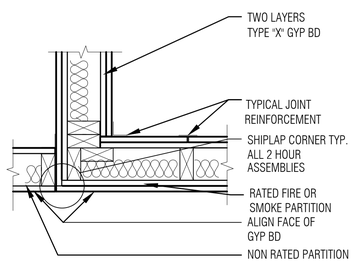

5B ONE HOUR PARTITION AT EXTERIOR WALL

SCALE 1 1/2"=1'-0"



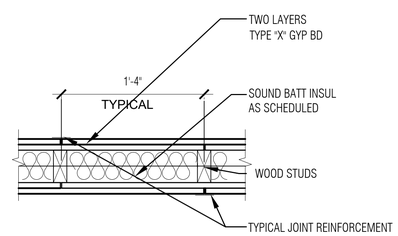

1A NON RATED PARTITION AND ONE HR RATED PARTITION CORNER

SCALE 1 1/2"=1'-0"




2A NON RATED PARTITION AND TWO HR RATED PARTITION CORNER

SCALE 1 1/2"=1'-0"




ALL HORIZONTAL AND VERTICAL JOINTS IN RATED PARTITIONS SHALL BE SUPPORTED BY STUDS, CRIPPLES, OR HEADERS.

3A VERTICAL JOINTS IN TWO HOUR RATED PARTITION

SCALE 1 1/2"=1'-0"


**DESIGN GROUP, LLC.**

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E-Mail: nkumar@designgroupmemphis.com


OWNER NAME AND ADDRESS

INDEPENDENT
HOTEL

AT

HIGHWAY 140,
OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 8882
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

WOOD PARTITIONS

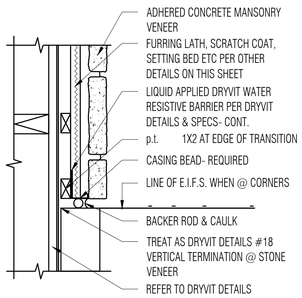
DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

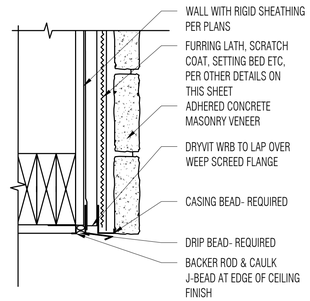
DRAWING NUMBER:

**A803**



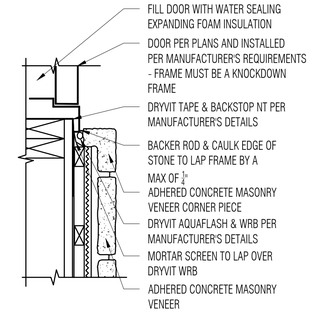

2D VERTICAL CHANGE OF MATERIAL

SCALE 3"= 1'-0"



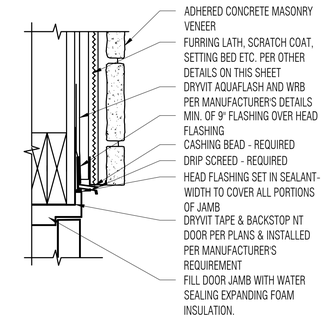

3D WALL AT SOFFITS AND OVERHANGS

SCALE 3"= 1'-0"



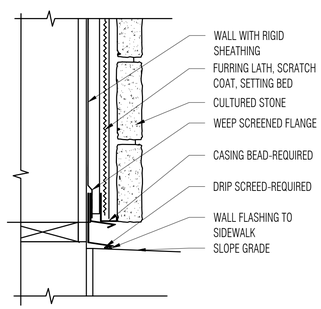

4D DOOR JAMB

SCALE 3"= 1'-0"



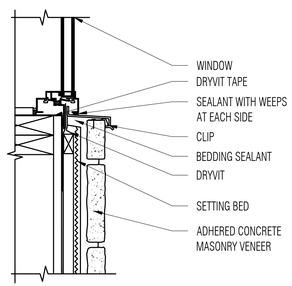

5D DOOR HEAD

SCALE 3"= 1'-0"



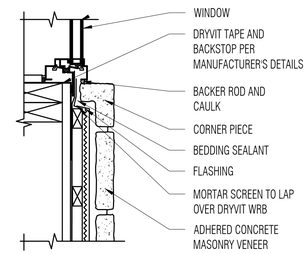

2B WALL BASE

SCALE 3"= 1'-0"



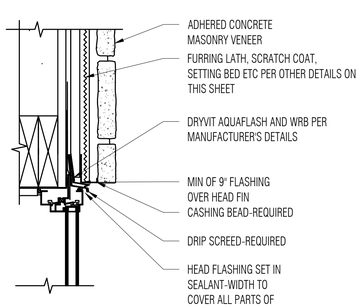

3B WINDOW SILL

SCALE 3"= 1'-0"




4B WINDOW / PTAC JAMB - CORNER RETURN

SCALE 3"= 1'-0"




1A WINDOW / PTAC HEAD

SCALE 3"= 1'-0"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SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
NO. 8882
03/01/2024
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

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| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

STONE DETAILS

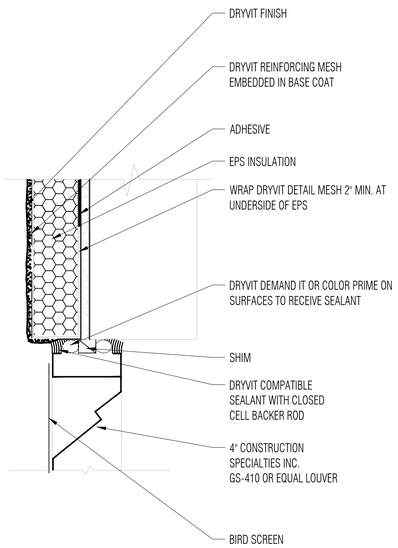
DRAWN BY: RB/KAL

CHECKED BY:

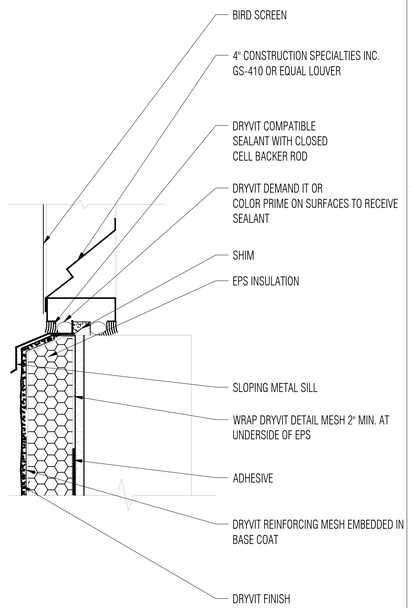
APPROVED BY:

DRAWING NUMBER:

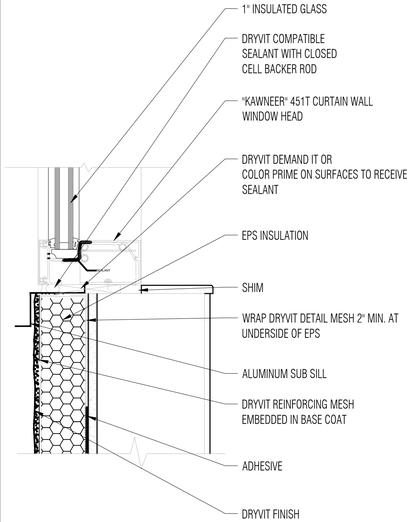
**A804**



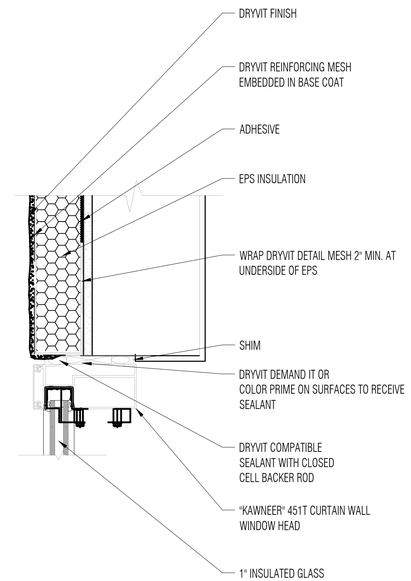

1C DRYVIT @ LOUVER HEAD
SCALE: 1 1/2" = 1'-0"



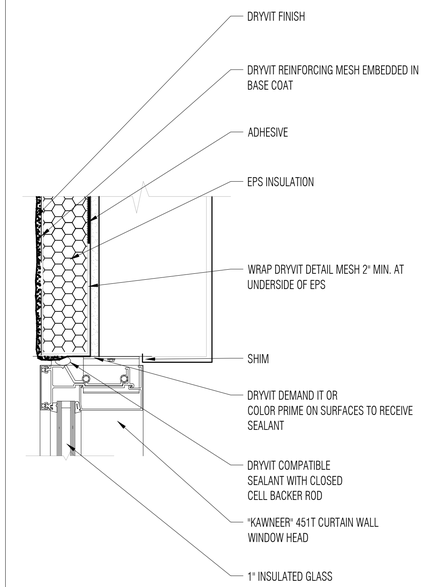

2C DRYVIT @ LOUVER SILL
SCALE: 1 1/2" = 1'-0"



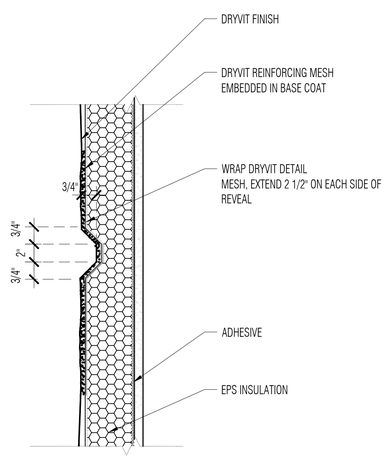

3C DRYVIT @ WINDOW SILL
SCALE: 1 1/2" = 1'-0"



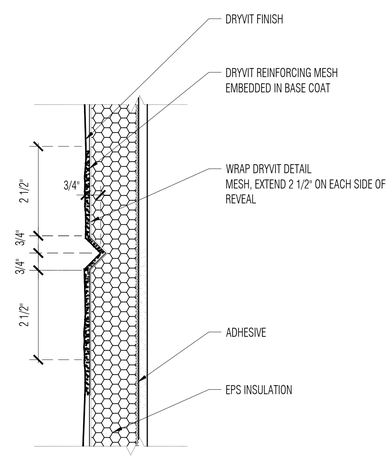

4C DRYVIT @ WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



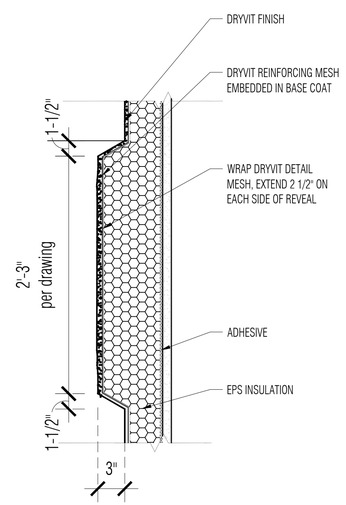

4C DRYVIT @ WINDOW HEAD
SCALE: 1 1/2" = 1'-0"



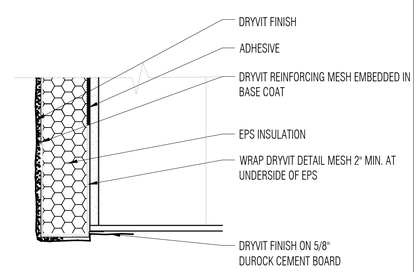

1A DRYVIT REVEAL
SCALE: 1 1/2" = 1'-0"



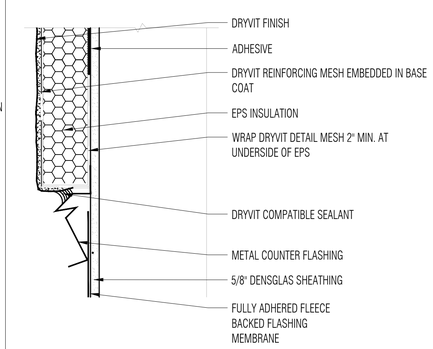

2A DRYVIT REVEAL
SCALE: 1 1/2" = 1'-0"




3A DRYVIT @ BAND
SCALE: 1 1/2" = 1'-0"




4B DRYVIT @ SOFFIT
SCALE: 1 1/2" = 1'-0"




5B DRYVIT @ ROOF FLASHING
SCALE: 1 1/2" = 1'-0"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SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ARCHITECT
03/01/2024
NO. 6852
NEERAJ KUMAR

MARCH 01, 2024

CONSULTANTS NAME:

CONSTRUCTION SET

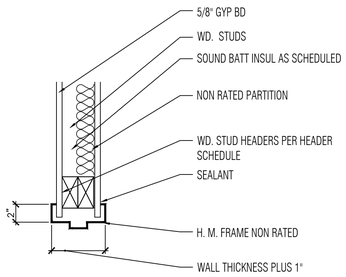
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

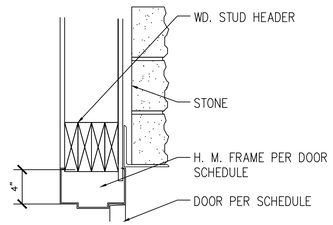
E.F.I.S. DETAIL

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

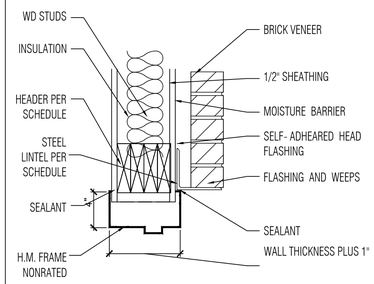
**A805**



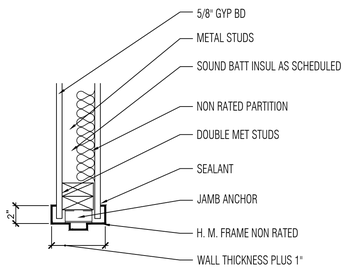

1E DOOR HEAD @ INTERIOR PART.
SCALE 1"=1'-0"



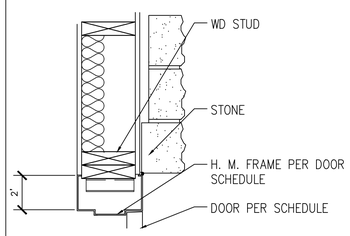

2E DOOR HEAD @ STONE
SCALE 1"=1'-0"



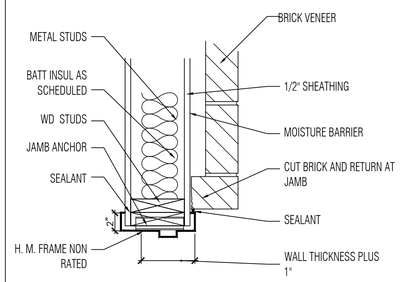

3E DOOR HEAD @ BRICK
SCALE 1"=1'-0"



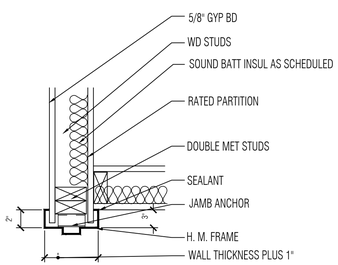

1D DOOR JAMB @ INTERIOR PART.
SCALE 1"=1'-0"



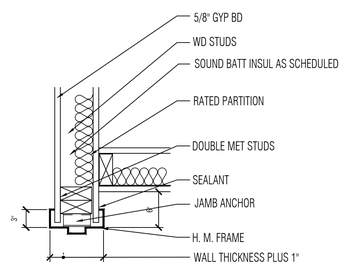

2D DOOR JAMB @ STONE
SCALE 1"=1'-0"



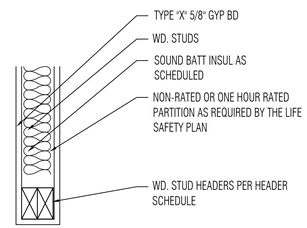

3D DOOR JAMB @ BRICK
SCALE 1"=1'-0"



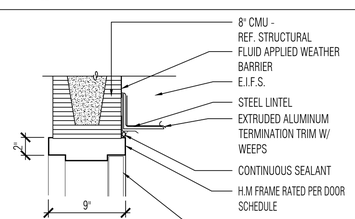

1C DOOR JAMB @ PARTITION
SCALE 1"=1'-0"



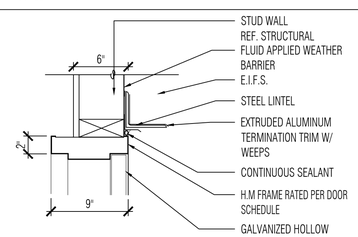

2C DOOR JAMB @ PARTITION (TYP.)
SCALE 1"=1'-0"



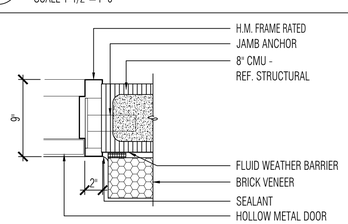

3C CASE OPENING
SCALE 1"=1'-0"



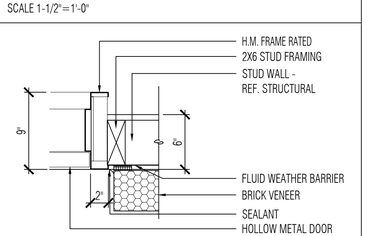

1B HEAD DETAIL-CMU/E.I.F.S.
SCALE 1-1/2"=1'-0"




2B HEAD DETAIL- STUD/E.I.F.S.
SCALE 1-1/2"=1'-0"




1A JAMB DETAIL-CMU/E.I.F.S.
SCALE 1-1/2"=1'-0"




2A JAMB DETAIL- STUD/E.I.F.S.
SCALE 1-1/2"=1'-0"

## GENERAL NOTES

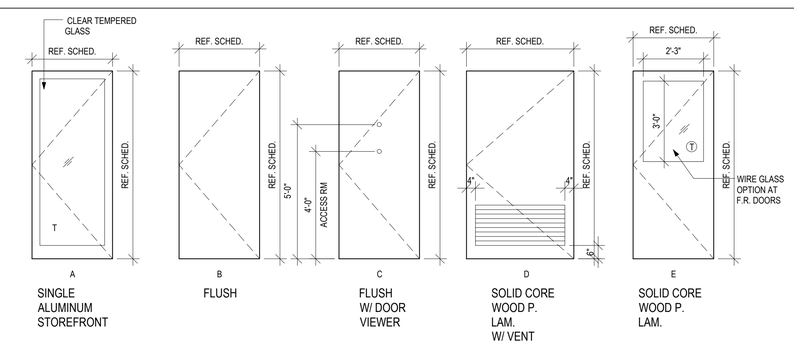
1. AOR TO COORD. ACCESS CONTROL & DOOR HARDWARE FOR SECURITY AND ACCESS REQUIREMENTS.
2. AOR TO VERIFY ALL DOOR RATING REQUIREMENTS.
3. REFER TO BRAND ARCHITECTURAL SPECIFICATION MANUAL FOR DOOR HARDWARE INFORMATION.

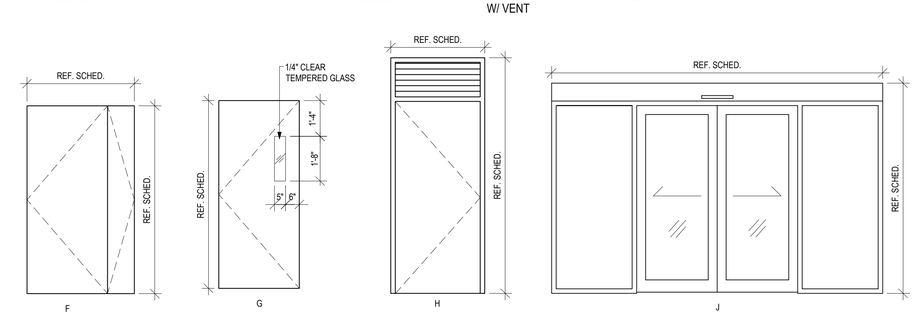
DOOR SCHEDULE - PUBLIC SPACE

| NUMBER | DOOR SIZE LEAF QTY | ROOM NAME | DOOR SIZE WIDTH | DOOR SIZE HGT | DOOR TYPE | DOOR MAT | FRAME MAT | RATINGS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 100 | 2 | VESTIBULE ENTRY | 12' - 0" | 7' - 8" | J | ALUM | | | |
| 101 | 2 | VESTIBULE ENTRY | 12' - 0" | 7' - 8" | J | ALUM | | | |
| 103 | 1 | OFFICE | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 104 | 1 | REGISTRATION | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 105 | 1 | LAUNDRY | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 105a | 1 | LAUNDRY | 3' - 0" | 7' - 0" | G | SCWD | 20 MIN. | | |
| 105b | 1 | LAUNDRY | 3' - 0" | 7' - 0" | G | SCWD | | | |
| 105C | 1 | LAUNDRY | 2' - 6" | 7' - 0" | G | SCWD | | | |
| E1 | 1 | LAUNDRY EXIT DOOR | 4' - 0" | 7' - 0" | G | SCWD | | | |
| 107 | 1 | PANTRY | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 107a | 1 | AHU | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 108 | 1 | STORAGE | 3' - 0" | 7' - 0" | B | SCWD | | | |
| E4 | 1 | CORRIDOR EXIT DOOR EXT. | 3' - 0" | 7' - 0" | B | SCWD | 45 MIN. | | |
| 113 | 1 | ELEVATOR EQUIPMENT ROOM | 3' - 0" | 7' - 0" | B | SCWD | 20 MIN. | | |
| 114 | 1 | FITNESS ROOM | 3' - 0" | 7' - 0" | G | SCWD | | | |
| 115 | 1 | STORAGE | 3' - 0" | 8' - 0" | B | SCWD | 20 MIN. | | |
| 116 | 1 | TOILET | 3' - 0" | 8' - 0" | B | SCWD | | | |
| 117 | 1 | STAIR L01 | 3' - 0" | 7' - 0" | B | SCWD | | | |
| E5 | 1 | STAIR L01 EXT. | 3' - 0" | 7' - 0" | B | SCWD | 45 MIN. | | |
| 118 | 1 | MAIN ELECTRIC RM | 3' - 0" | 7' - 0" | B | SCWD | 20 MIN. | | |
| E6 | 2 | MAIN ELECTRIC RM EXIT DOOR EXT. | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 119 | 1 | BOILER PUMP RM | 3' - 0" | 7' - 0" | D | SCWD | 20 MIN. | | |
| E2 | 1 | CORRIDOR EXIT DOOR EXT. | 3' - 0" | 7' - 0" | B | SCWD | 20 MIN. | | |
| 120 | 1 | STAIR L01 | 3' - 0" | 7' - 0" | B | SCWD | | | |
| E3 | 1 | STAIR L01 EXT. | 3' - 0" | 7' - 0" | B | SCWD | 45 MIN. | | |
| | | | | | | | | | |
| 201 | 1 | STORAGE | 3' - 0" | 7' - 0" | B | SCWD | 20 MIN. | | |
| 202 | 1 | STORAGE | 3' - 0" | 7' - 0" | B | SCWD | 20 MIN. | | |
| 203 | 1 | GUEST LAUNDRY RM | 3' - 0" | 7' - 0" | B | SCWD | 20 MIN. | | |
| 204 | 1 | STAIR L02 | 3' - 0" | 7' - 0" | B | SCWD | 45 MIN. | | |
| 205 | 1 | STORAGE | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 206 | 1 | STAIR L02 | 3' - 0" | 7' - 0" | B | SCWD | 45 MIN. | | |
| | | | | | | | | | |
| 301 | 1 | STORAGE | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 302 | 1 | STORAGE | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 303 | 1 | STAIR L03 | 3' - 0" | 7' - 0" | B | SCWD | 45 MIN. | | |
| 304 | 1 | STORAGE | 3' - 0" | 7' - 0" | B | SCWD | | | |
| 305 | 1 | STAIR L03 | 3' - 0" | 7' - 0" | B | SCWD | 45 MIN. | | |

DOOR SCHEDULE - GUESTROOMS

| NUMBER | DOOR SIZE LEAF QTY | ROOM NAME | DOOR SIZE WIDTH | DOOR SIZE HGT | DOOR TYPE | DOOR MAT | FRAME MAT | RATINGS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| VARIES | 1 | GUESTROOM | 3' - 0" | 7' - 0" | C | SCWD | HM | 20 MIN. | |
| VARIES | 1 | GUESTROOM BATHROOMS | 3' - 0" | 7' - 0" | B | SCWD | HM | | |




4A DOOR TYPE
SCALE 3/8"=1'-0"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OWNER NAME AND ADDRESS

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AT

HIGHWAY 140, OSCEOLA, AR

SEAL

MARCH 01, 2024

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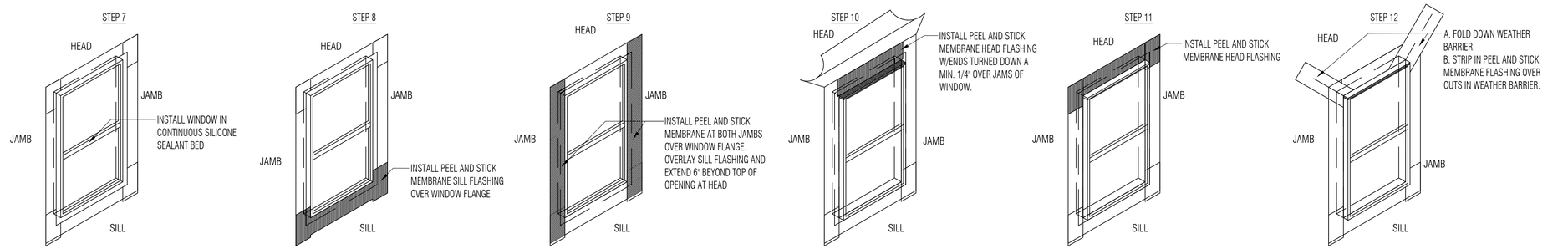
DRAWING NAME

DOOR SCHEDULE & DETAILS

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

**A900**




NOTES
1. DRYVIT AQUALASH SHALL EXTEND TO INTERIOR FACE OF OPENING.
2. REFER TO HEAD, SILL AND JAMB DETAILS FOR FLASHING INTEGRATION.
3. EXTEND 1" ABOVE WINDOW HEAD & 4" TO 6" BELOW BOTTOM EDGE OF NAILING FLANGE.
4. EXTEND 4" BEYOND OUTER EDGES OF JAMB FLASHING.
5. GC TO PROVIDE A COMPLETE GUEST ROOM MOCK UP TO INCLUDE EXTERIOR WINDOW FOR OWNER/ARCHITECT APPROVAL.

1B ISOMETRIC DETAIL- TYPICAL WINDOW MAKING
SCALE 1 1/2"=1'-0"

WINDOW SCHEDULE

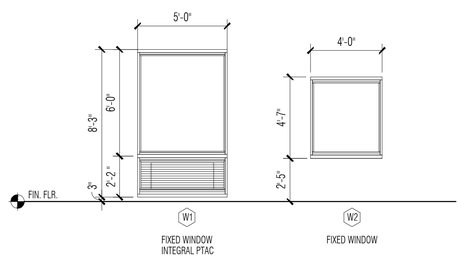
| TYPE | HEIGHT | WIDTH | MATERIAL | FINISH | GLAZING | PTAC |
|---|---|---|---|---|---|---|
| W1 | 6' - 0" | 5' - 0" | ALUM. | CLEAR ANODIZED | INSULATED | YES |
| W2 | 4' - 7" | 4' - 0" | ALUM. | CLEAR ANODIZED | INSULATED | NO |

STOREFRONT SCHEDULE

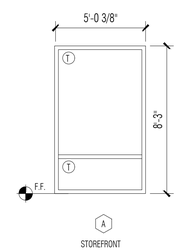
| TYPE | HEIGHT | WIDTH | MATERIAL | FINISH | GLAZING | PTAC |
|---|---|---|---|---|---|---|
| A | 7' - 0" | 5' - 0 1/2" | ALUM. | CLEAR ANODIZED | INSULATED | REF. ELEV. |

GENERAL NOTES
1. GC ON FIELD TO MEASURE AND CONFIRM STOREFRONT ROUGH OPENING PRIOR TO STOREFRONT/DOOR FRAME FABRICATION.

LEGEND
(T) TEMPERED GLASS




2A WINDOW TYPES
SCALE 1/4"=1'-0"




4A STOREFRONT TYPES
SCALE 1/4"=1'-0"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SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ARCHITECT NO. 5862 NEERAJ KUMAR 03/01/2024

MARCH 01, 2024

CONSULTANTS NAME:

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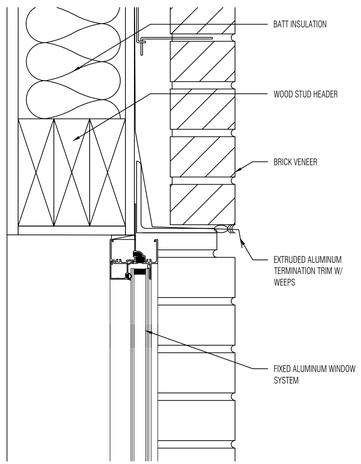
| 01 | 03/01/2024 | CONSTRUCTION SET |

DRAWING NAME

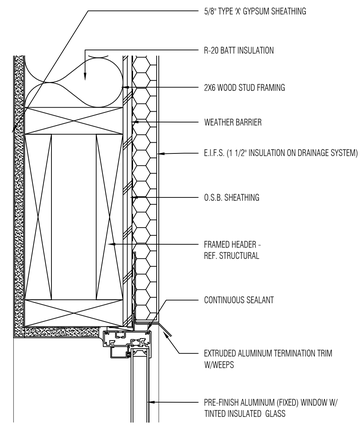
WINDOW SCHEDULE

DRAWN BY: KEYA
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

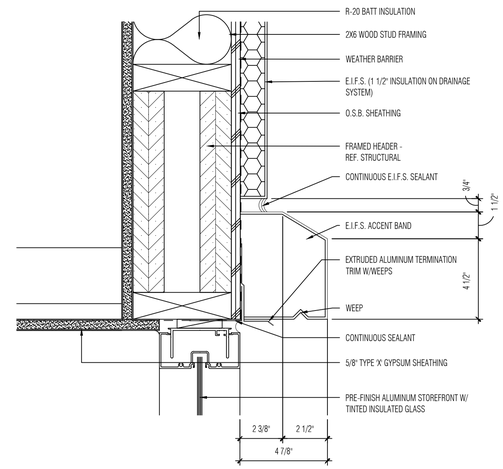
**A901**



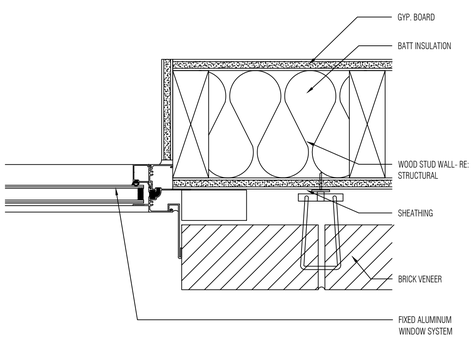

1C HEAD DETAIL @ WINDOW (BRICK)
SCALE 3"=1'-0"



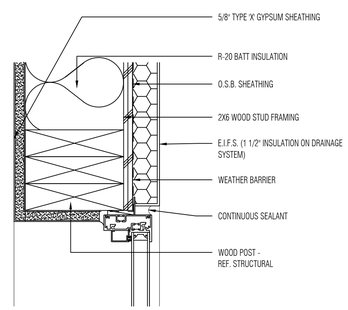

2C HEAD DETAIL @ WINDOW (E.I.F.S.)
SCALE 3"=1'-0"



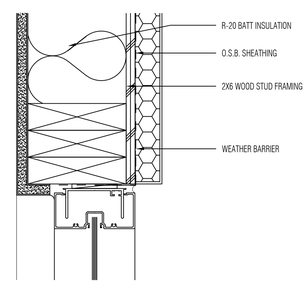

3C HEAD DETAIL @ STOREFRONT
SCALE 3"=1'-0"



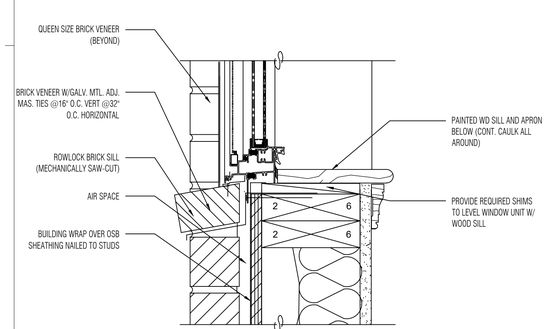

1B JAMB DETAIL @ WINDOW (BRICK)
SCALE 3"=1'-0"



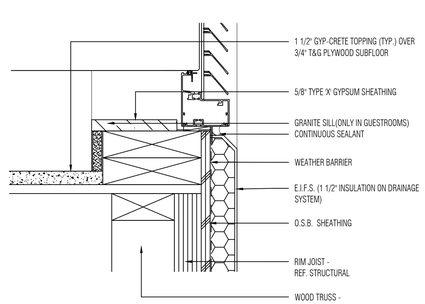

2B JAMB DETAIL @ WINDOW (E.I.F.S.)
SCALE 3"=1'-0"



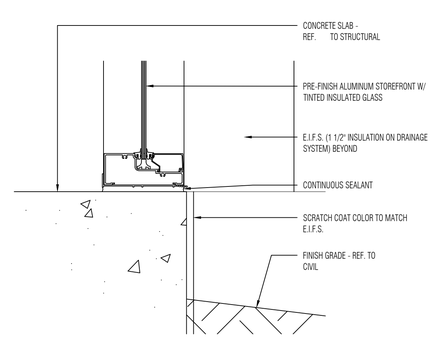

3B JAMB DETAIL @ STOREFRONT
SCALE 3"=1'-0"



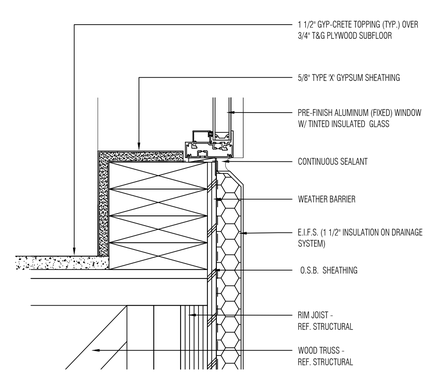

1A SILL DETAIL @ WINDOW (BRICK)
SCALE 3"=1'-0"




2A SILL DETAIL @ WINDOW (E.I.F.S.)
SCALE 3"=1'-0"




3A SILL DETAIL @ STOREFRONT
SCALE 3"=1'-0"




4A SILL DETAIL @ WINDOW
SCALE 3"=1'-0"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DRAWING NAME

WINDOW DETAILS

DRAWN BY: KEYA

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

**A902**

# GENERAL MECHANICAL NOTES

1. REFER TO ALL OTHER DRAWINGS AND SPECIFICATIONS, AND BASE BUILDING DRAWINGS & SPECIFICATIONS AND BE RESPONSIBLE FOR ALL APPLICABLE PROVISIONS THEREIN.
2. FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL.
3. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, AND STANDARD 90A.
4. ATTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES.
5. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW FITTING AND DETAIL. INSTALL DUCTS, EQUIPMENT AND CONTROLS IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK; MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. ARRANGE EQUIPMENT INTO THE AVAILABLE SPACE IN A MANNER TO MAKE ALL WORKING PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
6. MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTS FOR ONE YEAR.
7. PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
8. EQUIPMENT AND MATERIALS SHALL BE NEW, UNLESS OTHERWISE SPECIFIED.
9. CONSTRUCT AIR DUCTS IN ACCORDANCE WITH SMACNA DUCT MANUALS LATEST EDITION.
10. HVAC WORK INDICATED DIAGRAMATICALLY, EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS.
11. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.
12. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH STATE CODES, MANUFACTURER'S APPROVED PUBLISHED LITERATURE, AND AUTHORITIES HAVING JURISDICTION.
13. INSTALLATION OF ALL EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT.
14. EXACT LOCATION OF ALL SUPPLY DIFFUSERS RETURN AIR GRILLES AND EXHAUST REGISTERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
15. ELECTRICAL – DISCONNECTS AND/OR BREAKERS, POWER WIRING THRU MOTOR CONTROL DEVICES TO ALL MOTORS OR TO JUNCTION BOXES OF FACTORY WIRED EQUIPMENT ARE PROVIDED UNDER THE ELECTRICAL DIVISION OF WORK. MECHANICAL WORK SHALL INCLUDE CONTROL AND INTERLOCK WIRING REQUIRED FOR PROPER OPERATION OF THE SYSTEM, AND SHALL INCLUDE FURNISHING OF MAGNETIC STARTERS OR CONTRACTORS WHERE REQUIRED.
16. COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
17. PROVIDE U.L. LISTED HEAVY GLASS FIBER FABRIC DUCT CONNECTOR AT FAN CONNECTORS; FABRIC CONNECTORS SHALL BE AT LEAST 4" LONG AND HAVE METAL COLLER AT EACH END; ALLOW AT LEAST ONE INCH SLACK TO ELIMINATE VIBRATION TRANSMISSION.
18. DUCTWORK MATERIALS SHALL BE GALVANIZED SHEET METAL AS MADE BY ARMCO OR EQUAL.
19. GRILLES, REGISTERS AND DIFFUSERS – SEE BASE BUILDING CONSTRUCTION DOCUMENTS.
20. FOR ROUND DUCT TAKE–OFF FROM SHEET METAL DUCTS, USE GENFLEX MODEL No. SM–1DEL SPIN–IN FITTING WITH SCOOP AND DAMPER.
21. FLEXIBLE DUCTWORK SHALL BE GENEFLEX TYPE GSL OR APPROVED EQUAL.
22. FLEXIBLE DUCT RUNOUTS TO CEILING DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE INLET OF THE DIFFUSERS SERVED.
23. PORTIONS OF DUCTWORK VISIBLE THROUGH SUPPLY AND RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK.
24. COMPLETION AND TESTS SHALL INCLUDE CLEANING AND LUBRICATION OF ALL EQUIPMENT, AND ADJUSTMENTS FOR PROPER OPERATION. ADJUST DAMPERS, REGISTERS AND DIFFUSERS FOR PROPER AIR DISTRIBUTION. CHECK SYSTEM UNDER ACTUAL OPERATING CONDITIONS AND MAKE ADJUSTMENTS FOR A UNIFORM TEMPERATURE THROUGH THE CONDITIONED SPACE.
25. LOCATIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE FIELD CONDITIONS FOR THE EXACT LOCATION AND MODIFY DUCT SYSTEM ACCORDINGLY.
26. CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATING. CONTRACTOR SHALL MODIFY DUCTWORK TO FIT AVAILABLE FIELD CONDITIONS.
27. EQUIPMENT SHALL BE STARTED AND STOPPED, CONTROLLED AND/OR MONITORED BY THE BUILDING ENERGY MANAGEMENT SYSTEM.
28. CONTRACTOR SHALL REFER TO THE BASE BUILDING SPECIFICATIONS FOR ALL REQUIRED EQUIPMENT CONTROL POINTS.
29. ALL THERMOSTATS, UNLESS NOTED OTHERWISE, SHALL BE MOUNTED 4'–0" A.F.F. AND ADJACENT TO LIGHT SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR.
30. ALL MATERIAL INSTALLED IN RETURN AIR PLENUM SHALL HAVE FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50. EXCEPT ITEMS LISTED IN SECTION 602.2.1.1 THRU 602.2.1.5.
31. INSTALL PLENUM RATED ELECTRICAL AND LOW VOLTAGE CABLE IN RETURN AIR PLENUM.
32. WHERE THE SPACE ABOVE THE SUSPENDED CEILINGS IS USED AS A RETURN AIR PLENUM, COORDINATE THE WORK OF OTHER TRADES TO PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (250 FPM MAXIMUM VELOCITY). WHERE PARTITIONS ARE EXTENDED TO THE STRUCTURE ABOVE, PROVIDE OPENINGS IN THE PARTITIONS ABOVE THE CEILING.
33. SIZE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS FOR ACTUAL LINE LENGTHS AND VERTICAL LIFT REQUIRED.
34. DUCT DIMENSIONS GIVEN ARE CLEAR INSIDE SHEET METAL DIMENSIONS.
35. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
36. ALL EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE SEALED WATERPROOF.
37. ALL MECHANICAL WORK UNDER THIS CONTRACT IS TO FIVE (5) FEET OUTSIDE THE BUILDING.
38. PROVIDE FIRESTOP WHERE PIPES, CONDUITS, BUS DUCTS, WIRES, DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT PENETRATING RATED FLOORS AND WALLS.
39. ALL CEILING EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
40. HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF, AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.
41. ALL DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.
42. PROVIDE VOLUME DAMPERS AT EACH BRANCH TAKEOFF AND IN SUCH OTHER LOCATIONS WHERE REQUIRED TO PROPERLY BALANCE THE SYSTEM.
43. PROVIDE INSTRUMENT TEST HOLES WITH CAPS IN AIR DISTRIBUTION SYSTEMS WHEREVER VOLUME DAMPER ARE SHOWN.
44. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHEET METAL TRANSITIONS AT FANS, FAN COIL UNITS, AND OTHER SIMILAR HVAC EQUIPMENT.
45. ALL OPEN ENDED DUCTS IN THE CEILING PLENUM SHALL BE UNOBSTRUCTED FOR A MINIMUM DISTANCE OF 24" FROM THE OPENING TO ALLOW FREE AIR FLOW AND SHALL HAVE 3/4" WIRE MESH SCREENING.
46. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATIONS SHALL BE PROVIDED BY HVAC CONTRACTOR.
47. ALL TRANSFER DUCT SHALL BE INTERNALLY LINED.
48. ALL EXPOSED EQUIPMENT (REGISTERS, UNIT HEATERS, ETC.) COLOR SHALL BE SELECTED BY ARCHITECT, UNLESS OTHERWISE NOTED.
49. EXACT LOCATION OF THERMOSTATS TO BE COORDINATED WITH FINAL LOCATION OF WALL MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT.
50. ALL THE MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES. ALL THE ROUND ELBOW SHALL HAVE RADIUS SAME AS DUCT WIDTH.
51. ALL THE ROUND DUCT SHALL BE SPIRAL DUCT, UNLESS OTHERWISE NOTED.
52. PROVIDE DUCT LINING FOR FIRST TEN FEET OF SUPPLY AND RETURN DUCTWORK OF RTU's AND EXTERNALLY DUCT WRAP INSULATION FOR REST OF THE DUCTWORK.
53. ALL THERMOSTATIC CONTROLS SHALL HAVE 5 DEGREE F DEADBAND.
54. CONTRACTOR SHALL FURNISH TESTING & BALANCING REPORT TO ENGINEER PRIOR TO FINAL INSPECTION TO VERIFY REQUIRED PERFORMANCE HAS ACIEVED.
55. INSTALL SMOKE DETECTOR IN RETURN AIR SYSTEM WITH CAPACITY GREATER THAN 2000 CFM.
56. DUCT–MOUNTED SMOKE DETECTORS ARE TO BE FURNISHED BY ELECTRICAL CONTRACTOR (DIVISION 26). THEY ARE TO BE MOUNTED BY THE MECHANICAL CONTRACTOR (DIVISION 23) IN THE COMMON (MAIN) SUPPLY AIR DUCTS. ELECTRICAL CONTRACTOR (DIVISION 26) SHALL WIRE AND COMMISSION DETECTORS TO AUTOMATICALLY SHUT DOWN THE AIR HANDLING UNITS UPON DETECTION OF SMOKE AND ANNUNCIATE CONDITION AT FIRE ALARM PANEL.
57. ALL FIRE DAMPERS TO BE RATED AT 1–1/2 HOURS UNLESS INDICATED OTHERWISE. USE "B" FRAME FIRE DAMPERS FOR DAMPERS CONNECTED TO DUCTWORK
58. COORDINATE THE HEATING, VENTILATION AND AIR CONDITIONING WORK WITH THE WORK OF ALL OTHER TRADES INVOLVED WITH THIS PROJECT.
59. SEE ARCHITECTURAL CEILING PLAN FOR EXACT LOCATION OF CEILING AIR DEVICES. AIR DEVICE LOCATION ON MECHANICAL SHEETS ARE FOR QUANTITY AND REFERENCE.
60. DUCTWORK DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
61. PROVIDE MANUAL VOLUME DAMPER AT ALL AIR DEVICES.
62. PROVIDE CLEAR LOCKING COVER FOR THERMOSTATS IN ALL PUBLIC AREAS.
63. ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, DAMPERS, CONTROLS, ETC., AND SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.

# MECHANICAL LEGEND

| | |
|---|---|
| ESP | EXTERNAL STATIC PRESSURE |
| LAT | LEAVING AIR TEMPERATURE |
| EAT | ENTERING AIR TEMPERATURE |
| EF-1 | EXHAUST FAN |
| DN | DOWN |
| OSA | OUTSIDE AIR |
| EAD | EXHAUST AIR DUCT |
| RA | RETURN AIR |
| RAD | RETURN AIR DUCT |
| SA | SUPPLY AIR |
| SAD | SUPPLY AIR DUCT |
| TAD | TRANSFER AIR DUCT |
| AFF | ABOVE FINISHED FLOOR |
| CFM | CUBIC FEET PER MINUTE |
| TYP | TYPICAL |
| 8Ø | ROUND DUCTWORK |
| PRV | PRESSURE REDUCING VALVE |
| AHU-1 | AIR HANDLING UNIT |
| HP-1 | HEAT PUMP |
| 10x6 | RECTANGULAR DUCT (WIDTHxDEPTH) |
| OAU-1 | 100% OUTSIDE AIR UNIT |
| PTAC-1 | PACKAGED TERMINAL AIR CONDITIONER |
| HPG | HIGH PRESSURE GAS (5 PSIG) |
| LPG | LOW PRESSURE GAS (0.5 PSIG) |

| | |
|---|---|
| | SUPPLY DUCT IN SECTION |
| | RETURN/EXHAUST DUCT IN SECTION |
| SD | SMOKE DETECTOR |
| | VOLUME DAMPER |
| M | MOTORIZED DAMPER |
| | TURNING VANES |
| | FIRE DAMPER |
| | FIRE/SMOKE DAMPER |
| | SUPPLY DIFFUSER |
| 1 / 500 | DIFFUSER CFM AND TYPE |
| | RETURN/EXHAUST AIR DEVICE |
| | AIRFLOW DIRECTION |
| T | THERMOSTAT |
| | PRV |

1. REFER TO INTERNATIONAL BUILDING CODE WITH LOCAL AMMENDMENTS.
2. SEISMIC RESTRAINTS SHALL NOT BE REQUIRED FOR THE FOLLOWING INSTALLATIONS:
   - A. PIPING IN MECHANICAL ROOMS (EXCEPT GAS PIPING) LESS THAN 1-1/4 INCH INSIDE DIAMETER
   - B. ALL OTHER PIPING (EXCEPT GAS PIPING) LESS THAN 2-1/2 INCH INSIDE DIAMETER.
   - C. ALL RECTANGULAR DUCTS LESS THAN 6 SQ. FT. IN CROSS-SECTIONAL AREA.
   - D. ALL ROUND DUCTS LESS THAN 28 INCHES IN DIAMETER.
   - E. ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.
   - F. ALL DUCTS SUSPENDED BY HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE DUCT TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.

## 1 SEISMIC NOTES - MECHANICAL

NOT TO SCALE


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AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/14

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

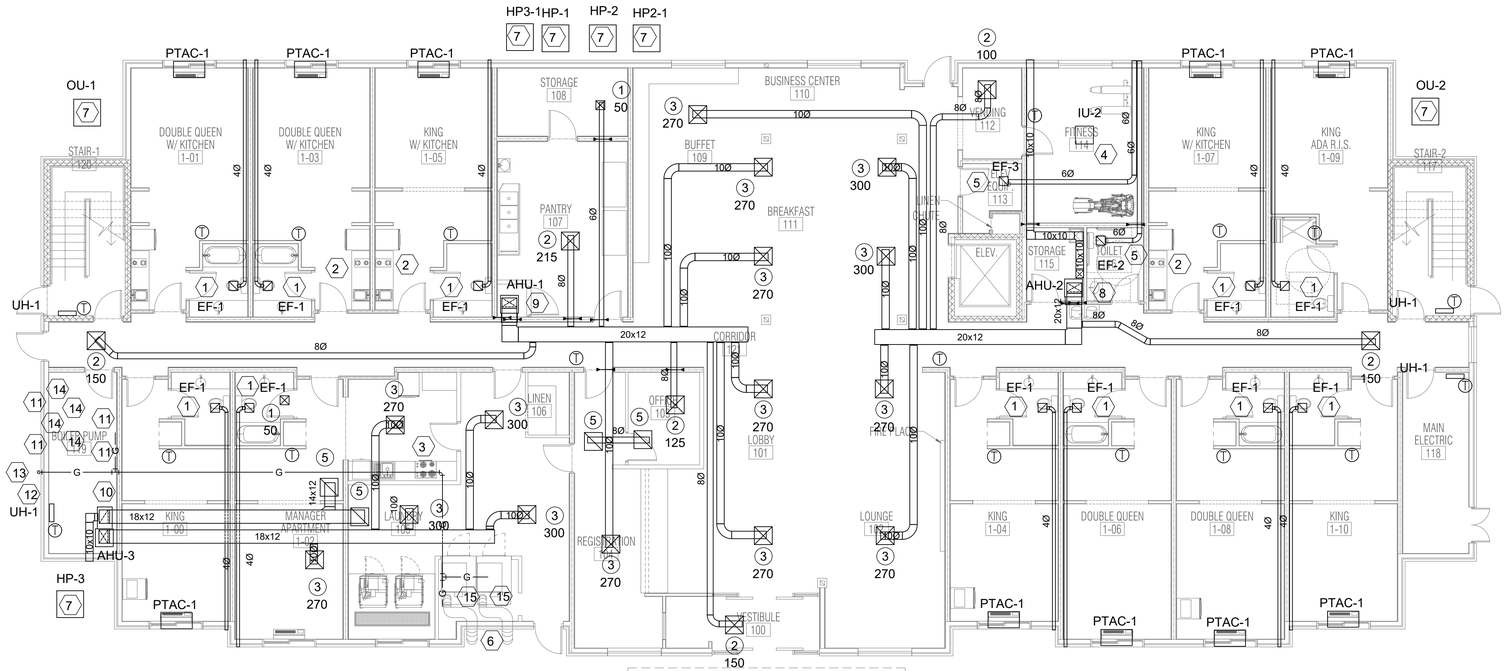
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

GENERAL NOTES - MECHANICAL

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

M001




1. ROUTE 4" EAD FROM EF IN FURR DOWN TO 8X6 VENT IN EXTERIOR WALL PAINTED PER ARCHITECT.

2. VENTLESS RANGE HOOD TO BE EQUAL TO BROAN 4000 SERIES, NONDUCTED FILTER TO BE PROVIDED

3. VENTLESS RANGE HOOD TO BE EQUAL TO SIZE OF RANGE, NONDUCTED FILTER TO BE PROVIDED

4. MOUNT DUCLESS MINSPLIT IN CEILING. EXTEND REFRIGERANT PIPING TO ASSOCIATED HP ON GRADE

5. ROUTE 6" EAD FROM EF IN FURR DOWN TO 8X6 VENT IN EXTERIOR WALL PAINTED PER ARCHITECT.

6. INSTALL 2 - 36X24 LOUVER IN EXTERIOR WALL. TOP OF LOUVER TO BE WITHON 12" OF CEILING AND BOTTOM 12" FROM FLOOR. INSTALL MOTORIZED DAMPERS IN EACH LOUVER INTERLOCKED WITH DRYERS

7. ANCHOR HP TO 4" CONCRETE PAD & EXTEND PAD 4" ON ALL SIDES OF HP. AND ROUTE REFRIGERANT FROM HP TO SYSTEM. PROVIDE CHASES AS REQUIRED FOR REFRIGERANT PIPING. COORDINATE LOCATIONS AND CONSTRUCTION OF CHASES WITH ARCHITECT. SIZE REFRIGERANT PIPING PER MFR'S RECOMMENDATIONS. ALL PIPING TO BE CONCEALED WITH LINSET COVER, COLOR SELECTED BY ARCH. (TYP FOR ALL).

8. MOUNT AHU ON 24" TALL LINED RA ROUTE RAD FROM PLENUM TO 24x18 RAG IN WALL WITH FIRE DAMPER 6" AFF. ROUTE REFRIGERANT PIPING DN TO ASSOCIATED HP ON GRADE. SIZE PIPING PER MANUFACTURER'S REC EXTEND 10X10 OAD TO 12X12 LOUVER IN EXTERIOR WALL PROVIDE MOTORIZED DAMPER AT RA PLENUM

9. MOUNT AHU IN AHU CLOSET ON 24" TALL LINED RA ROUTE RAD FROM PLENUM TO 24x18 RAG IN CORRIDOR WALL WITH FIRE DAMPER 6" AFF AND 12X12 RAG IN PANTRY WALL 6"AFF. ROUTE REFRIGERANT PIPING DN TO ASSOCIATED HP ON GRADE. SIZE PIPING PER MANUFACTURER'S REC EXTEND 10X10 OAD TO 12X12 LOUVER IN EXTERIOR WALL PROVIDE MOTORIZED DAMPER AT RA PLENUM

10. MOUNT AHU IN AHU CLOSET ON 24" TALL LINED RA ROUTE RAD FROM TOP OF PLENUM TO ABOVE CEILING. ROUTE REFRIGERANT PIPING DN TO ASSOCIATED HP ON GRADE. SIZE PIPING PER MANUFACTURER'S REC EXTEND 10X10 OAD TO 12X12 LOUVER IN EXTERIOR WALL PROVIDE MOTORIZED DAMPER AT RA PLENUM

11. ROUTE FLUE AND INTAKE FROM WATER HEATER TO CONCENTRIC SIDE WALL VENT IN EXTERIOR WALL. SIZE FLUE AND INTAKE PER MFR'S RECOMMENDATIONS. SIDEWALL VENT TO BE PAINTED PER ARCHITECT (TYP FOR ALL).

12. SET NEW GAS METER ON 4" THICK CONCRETE PAD. NEW GAS METER TO BE SIZED FOR 1500 CFH AT 2 PSIG. PROVIDE PRV AS REQUIRED CONTRACTOR TO COORDINATE WITH LOCAL UTILITY AND PAY FOR ALL INCURRED COST ASSOCIATED WITH INSTALLING NEW METER AND NEW SERVICE TO METER.

13. ROUTE NEW GAS PIPING BELOW GRADE FROM LOCAL UTILITY MAIN UP TO NEW GAS METER. CONTRACTOR TO COORDINATE WITH LOCAL UTILITY AND PAY FOR ALL INCURRED COST ASSOCIATED WITH PROVIDING NEW GAS SERVICE.

14. ROUTE 1 $\frac{1}{2}$" GAS TO WATER HEATER PROVIDE ISOLATION VALVE AND PRV AS REQUIRED. ROUTE 4" INTAKE AND EXHAUST VENT FROM WH TO EXTERIOR WALL.

15. ROUTE 1 $\frac{1}{4}$"" GAS TO DRYER PROVIDE ISOLATION VALVE AND PRV AS REQUIRED.

## 1 First Floor Plan - Mechanical

1/8"=1 '- 0"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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/14

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

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|---|---|---|
| 5 | 5-1-20 | Duct Revision |

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FIRST FLOOR PLAN - MECHANICAL

DRAWN BY:

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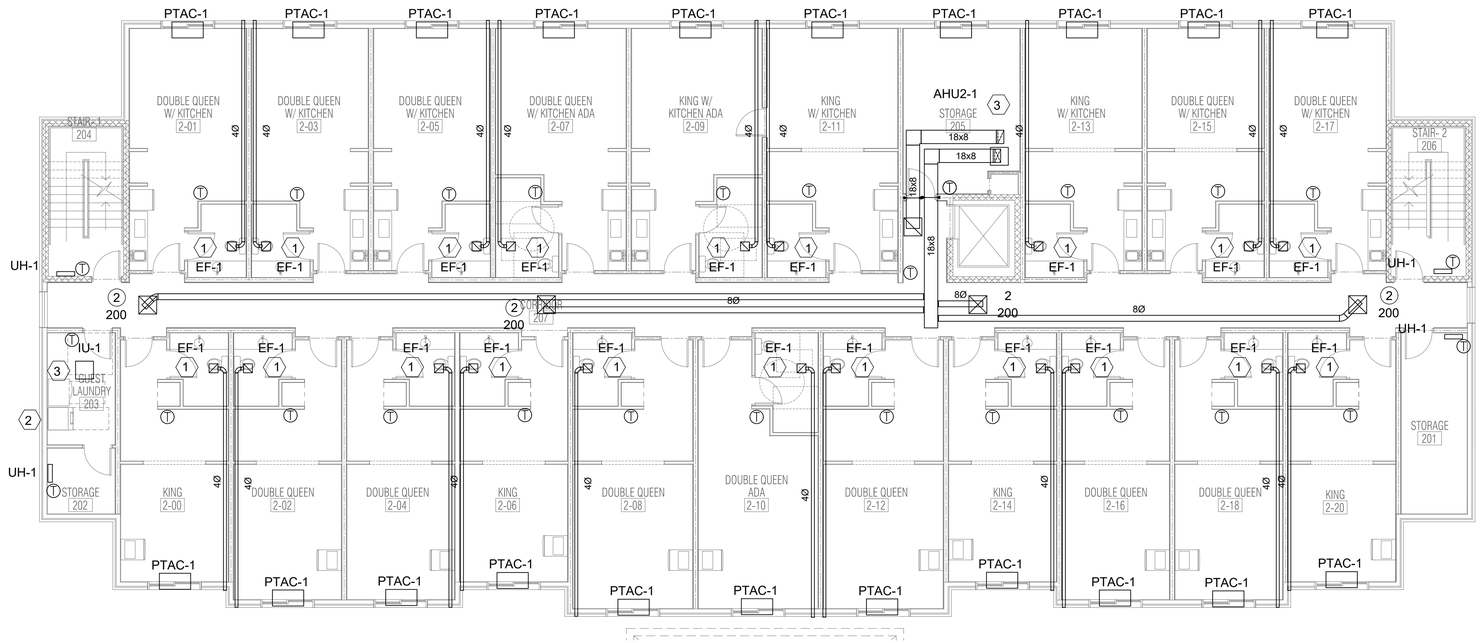
DRAWING NUMBER:

M101



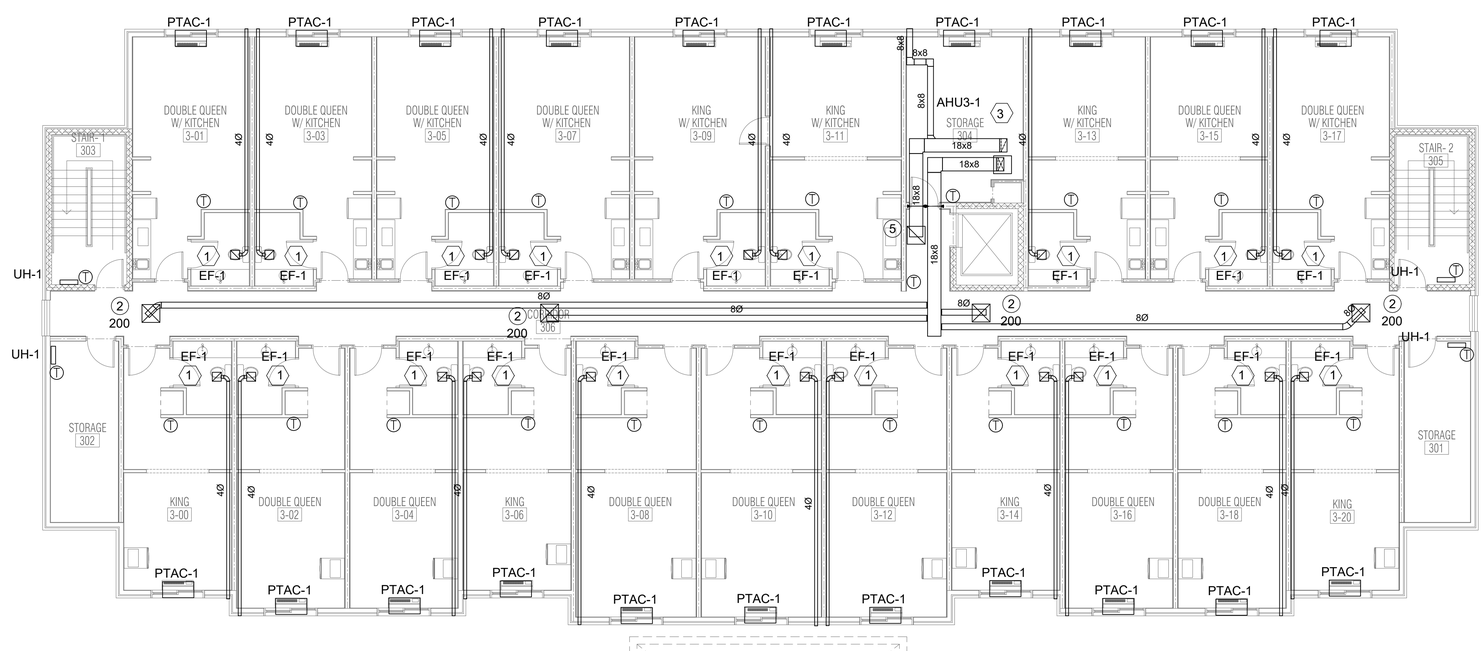

1 ROUTE 4" EAD FROM EF IN FURR DOWN TO 8X6 VENT IN EXTERIOR WALL PAINTED PER ARCHITECT.

2 ROUTE 4" DRYER VENT THRU EXTERIOR WALL WITH DRYER FLAP

3 MOUNT DUCLESS MINSPLIT IN CEILING. EXTEND REFRIGERANT PIPING TO ASSOCIATED HP ON GRADE

## 1 Second Floor Plan - Mechanical

1/8"=1 '- 0"




1 ROUTE 4" EAD FROM EF IN FURR DOWN TO 8X6 VENT IN EXTERIOR WALL PAINTED PER ARCHITECT.

2 VENTLESS RANGE HOOD TO BE EQUAL TO BROAN 4000 SERIES, NONDUCTED FILTER TO BE PROVIDED

3 MOUNT AHU ON 24" TALL LINED RA ROUTE RAD FROM TOP OF PLENUM TO ABOVE CEILING WITH FIRE DAMPER. ROUTE REFRIGERANT PIPING DN TO ASSOCIATED HP ON GRADE. SIZE PIPING PER MANUFACTURER'S REC EXTEND 8X8 OAD TO 12X12 LOUVER IN EXTERIOR WALL PROVIDE MOTORIZED DAMPER AT RA PLENUM

## 2 Third Floor Plan - Mechanical

1/8"=1 '- 0"

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DRAWING NAME

SECOND FLOOR PLAN - MECHANICAL

DRAWN BY:

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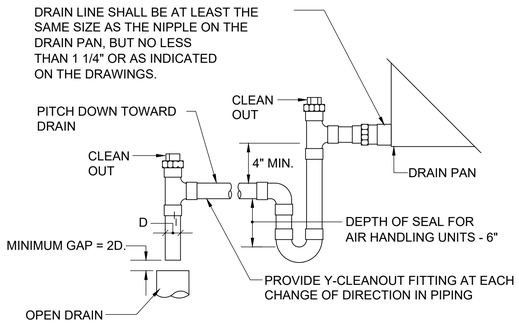
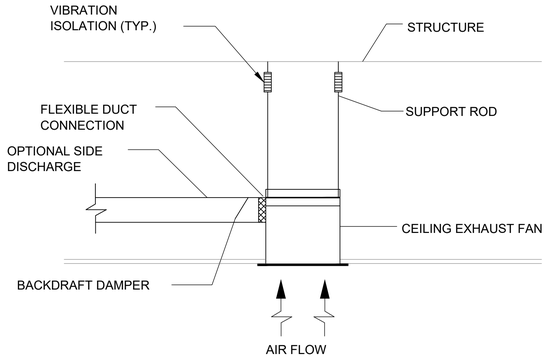
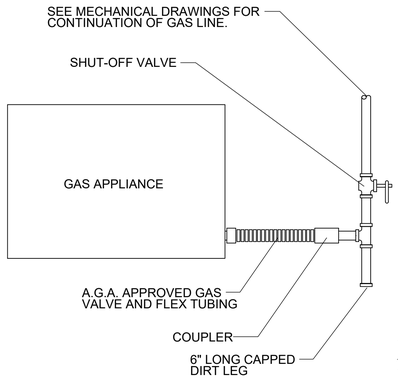
M102



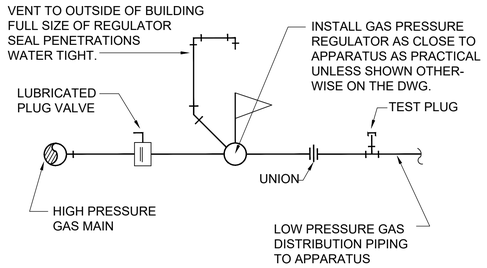

## 1 Condensate Drain Trap Detail
Not To Scale



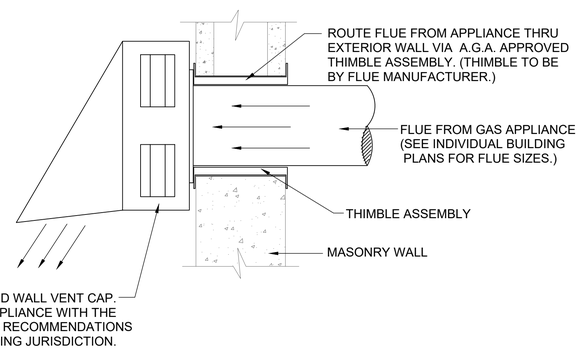

## 2 Typ. Clg. Exhaust Fan Detail
Not To Scale



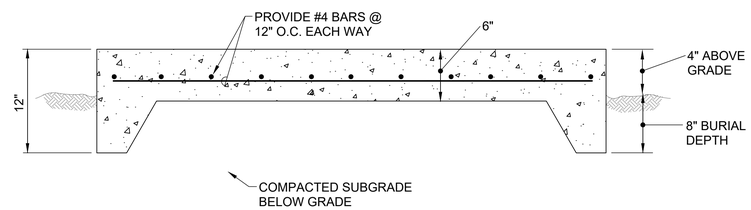

## 3 Gas Appliance Connection Detail
Not To Scale



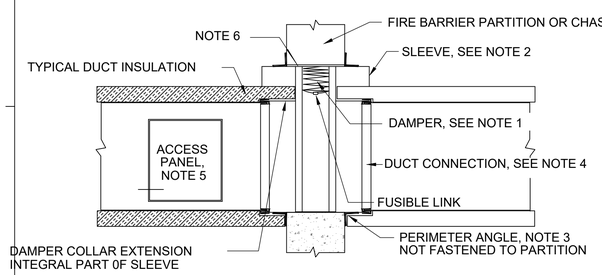

## 4 Gas Press. Regulating Piping Schematic
Not To Scale




## 5 Exhaust Glue (Masonry) Wall Detail
Not To Scale




## 6 Concrete Equipment Pad Detail
Not To Scale




FIRE DAMPER NOTES:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION IS SIMILIAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS, AND GAGES FOR SLEEVE, AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION, OR FLOOR, NOT OUTSIDE THE PENETRATION.

2. GALVANIZED STEEL: NOT LESS THAN THE CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME, AND TO PERIMETER ANGLES.

3. PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1\"X1\", 14 GAGE, TO PROVIDE 1" MINIMUM OVERLAP OF THE OPENING ON ALL FOUR SIDES.

4. BREAKAWAY DUCT CONNECTIOJ: CONTRACTOR'S CHOICE OF TYPES SHOWN IN SMACNA LPDS, FIG 2-13. SEAL JOINTS.

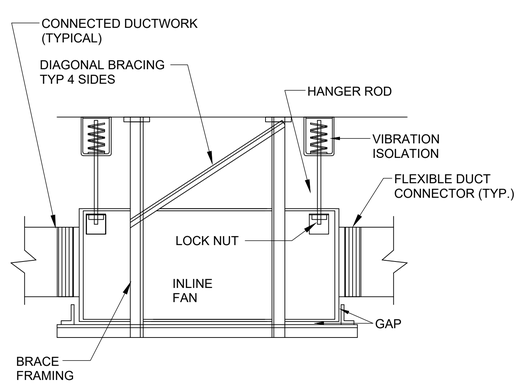
5. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK(S).

6. PROVIDE 1/32" TO 1/4" CLEARANCE ON HEIGHT AND WIDTH. FILL ANNULAR SPACE WITH ROCK WOOL FIRESTOP FIBER.

7. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THROUGH ATTIC FLOORS, AND MECHANICAL ROOM FLOORS SHALL BE PROVIDED WITH A 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

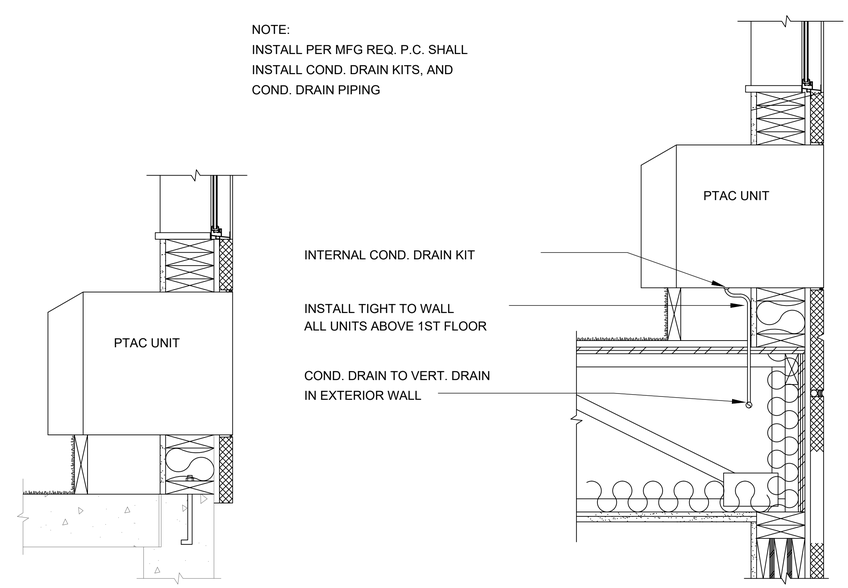
8. PROVIDE U.L. LISTED FIRE DAMPERS AND INSTALL IN ACCORDANCE WITH SMACNA AND U.L. 555 REQUIREMENTS.

## 7 Fire Damper Detail
Not To Scale




## 8 Inline Fan Detail
Not To Scale

NOTE:
INSTALL PER MFG REQ. P.C. SHALL
INSTALL COND. DRAIN KITS, AND
COND. DRAIN PIPING




## 9 Packaged Thru-Wall Unit (Ptac) Detail
Not To Scale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SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/14

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DETAILS - MECHANICAL

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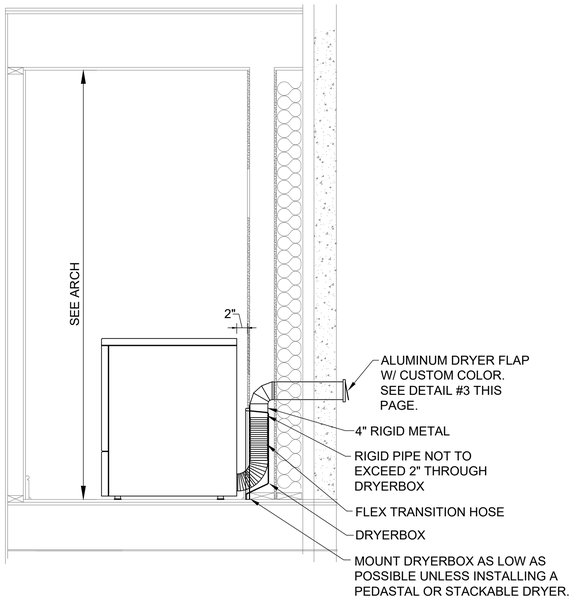


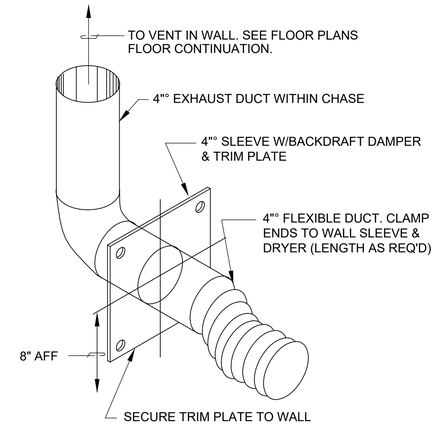

1 Dryer Box Detail
Not To Scale

DRYERBOX INSTALLATION

DRYER VENTING: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RUNNING ALL DUCTWORK FOR THE DRYER EXHAUST SYSTEM. ALL CONCEALED DRYER DUCTING MUST BE RIGID METAL (GALVANIZED OR ALUMINUM) MINIMUM OF 4" IN DIAMETER, SMOOTH 30 GA. CLEAN, UNOBSTRUCTED, FRICTIONLESS DUCTS (NO FLEXIBLE DUCT ALLOWED IN CONCEALED AREAS). SEAL ALL JOINTS WITH FOIL BACKED PRESSURE SENSITIVE DUCT TAPE MEETING THE REQUIREMENTS OF UL 181. DUCT JOINTS SHALL BE INSTALLED SO THAT THE MALE END OF THE DUCT POINTS IN THE DIRECTION OF THE AIRFLOW. DO NOT USE RIVETS OR SCREWS IN THE JOINTS OR ANYWHERE ELSE IN THE DUCT AS THESE WILL ENCOURAGE LINT COLLECTION.

DRYERBOX® RECEPTACLE (WWW.DRYERBOX.COM) SHALL BE METAL AND BE INSTALLED AS LOW AS POSSIBLE AS TO PERMIT THE PROPER AND SAFE COLLECTION OF THE DRYER TRANSITION HOSE. DRYERBOX SHOULD BE RESTING ON THE BOTTOM PLATE AND BE LOCATED AT OR NEAR THE CENTERLINE OF THE PROPOSED DRYER APPLIANCE. RIGID DUCT SHOULD PENETRATE DRYERBOX PORT 2 INCHES TO PROVIDE FOR FUTURE CONNECTION AND STORAGE OF TRANSITION HOSE. BASEBOARD SHALL BE "BUTTED" UP TO THE FIXED EXTENSION RIM AND SLIGHTLY BACK-CUT. DRYERBOX SHOULD BE CAULKED AND THEN PAINTED WITH THE TRIM PAINT. FOR USAGE IN A ONE-HOUR WALL ASSEMBLY, UL REQUIRES THAT BATT INSULATION BE STUFFED AROUND THE DRYERBOX AND IN THE ENTIRE WALL CAVITY CELL.

LENGTH OF CONCEALED RIGID METAL DUCTING SHALL NOT EXCEED 25 FEET UNLESS OTHERWISE NOTED. DEDUCT 5 FEET FROM THE ALLOWABLE LENGTH FOR EVERY 3.5" RADIUS 90 DEGREE ELBOW AND TWO AND A HALF FEET FOR EVERY 45 DEGREE FITTING. DRYER VENTING SHALL BE INDEPENDENT OF ANY OTHER SYSTEMS (CHIMNEYS OR EXHAUST VENTS). TERMINATION OF DRYER VENTING MUST BE TO THE EXTERIOR WITH A PROPER HOOD OR ROOF JACK EQUIPPED WITH A BACK-DRAFT DAMPER. SMALL ORIFICE METAL SCREENING SHOULD NOT BE PART OF THE HOOD OR ROOF JACK AS THIS WILL ACCELERATE LINT ACCUMULATION AND BLOCKAGE. THE HOOD OPENING SHOULD POINT DOWN AND EXHIBIT 12 INCHES OF CLEARANCE BETWEEN THE BOTTOM OF THE HOOD AND THE GROUND OR OTHER OBSTRUCTION. VERIFY MANUFACTURER'S RECOMMENDATIONS FOR ANY OTHER FACTORS.




2 Dryer Vent Connection Detail
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STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER ★★★ NO. 18426 THOMAS NEEDHAM 1/31/14

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

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DRAWING NAME

DETAILS - MECHANICAL

DRAWN BY:
CHECKED BY:
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DRAWING NUMBER:

M202

| AIR DISTRIBUTION SCHEDULE | | | | | |
|---|---|---|---|---|---|
| MARK | NECK SIZE | FACE SIZE | MAX NC | MAX SP DROP IN | COMMENTS |
| 1 | 6 | 12X12 | 30 | 0.1 | 1 |
| 2 | 8 | 24X24 | 30 | 0.1 | 1 |
| 3 | 10 | 24X24 | 30 | 0.1 | 1 |
| 4 | 10X10 | 12X12 | 30 | 0.1 | 2 |
| 5 | 22X22 | 24X24 | 30 | 0.1 | 2 |
| 6 | | 24X16 | 30 | 0.1 | 3 |
| 7 | | 12X12 | 30 | 0.1 | 3 |

1. SUPPLY AIR DEVICE TO BE EQUAL TO TITUS TMS

2. RETURN AIR DEVICE TO BE EQUAL TO TITUS EGG CRATE
3. RETURN AIR DEVICE TO BE EQUAL TO TITUS 33

| PTAC SCHEDULE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | MANUFACTURER | MODEL | oa | CFM | COOLING BTU | HEATING KW(208) | ELECTRICAL | | | | REMARKS |
| | | | | | | | VOLTS | PH | HZ | MCA | |
| PTAC-1 | AMANA | PTC073G | 15 | 310 | 9,000 | 3.5 | 208 | 1 | 60 | 15 | 1 |

1. WALL SLEEVE SHALL BE INSULATED, HEAVY GUAGE, GALVANIZED STEEL. PROVIDE EXTRUDED ALUMINUM ARCHITECTURAL GRILLE. PROVIDE A REMOTE, WALL-MOUNTED, ELECTRONIC DIGITAL THERMOSTAT SPECIFICALLY DESIGNED FOR GUEST SUITE APPLICATIONS. LOCATE THERMOSTATS REMOTELY FROM THE AIR CONDITIONING DEVICE, TYPICALLY NEAR THE BATHROOM AND ENTRY WALL IN A LOCATION UNAFFECTED BY SUPPLY AIR DRAFTS (SEE ALSO PLANS). PROVIDE THERMOSTATS WITH THE FOLLOWING FEATURES: (1) SYSTEM ON/OFF SELECTION;(2) AUTOMATIC OR MANUAL HEATING/COOLING SELECTION. (3) BACKLIT LED/LCD DIGITAL DISPLAY WITH TEMPERATURE NUMERALS THAT ARE AT LEAST 0.5・(12.0 MM) IN HEIGHT. (4) FAN MODE BUTTON THAT ALLOWS GUEST TO HAVE EITHER CONTINUOUS FAN, FAN CYCLING ON DEMAND OF HEATING/COOLING, AND MANUAL SPEED SELECTION. (5) CONTROL ALGORITHM THAT CAUSES FAN SPEED TO INCREASE AS THE ROOM CONDITIONS INCREASE ABOVE SET POINT, RETURNING TO LOW SPEED AS SET POINT IS REACHED. (6) CONCEALED TEMPERATURE LIMITS FOR HEATING AND COOLING. SINGLE POINT ELECTRICAL CONNECTION THROUGH BASE PROVIDE FOR EXTERNAL PIPE CONNECTED CONDENSATE REMOVAL. PROVIDE REVERSE CYCLE DEFROST SYSTEM.

| ELECTRIC UNIT HEATER SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| MARK | CFM | MOUNTING HEIGHT | CAPACITY | ELECTRICAL | | COMMENTS |
| | | | | KW | VOLTS / PHASE | |
| UH-1 | 160 | 6" AFF | 6824 | 3 | 208/1 | 1 |
| UH-2 | 160 | 9' | 17060 | 5 | 208/3 | 2 |

1. UH TO BE EQUAL TO INDEECO MODEL WAI WITH UNIT MOUNTED TAMPER PRROF THERMOSTAT & DISCONNECT. COLOR SELECTED BY ARCHITECT

2. UH TO BE EQUAL TO INDEECO MODEL UCI WITH THERMOSTAT & DISCONNECT.

| INDOOR UNIT SCHEDULE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GENERAL | | | COOLING | | | | | | | HEATING | | |
| MARK | CFM | SYSTEM | REFRIGERANT | CAPACITY TONS | EAT DB | EAT WB | SENSIBLE BTU/HR | TOTAL BTU/HR | SEER | TOTAL BTU/HR | Electrical | COMMENTS |
| IU-1 | 343 | HP-1 | R410A | 1 | 72 | 61 | 9600 | 12000 | 18 | 13500 | OU-1 | 1 |
| IU-1 | 343 | HP-1 | R410A | 1 | 72 | 61 | 9600 | 12000 | 18 | 13500 | OU-2 | 1 |

1. UNIT TO BE EQUAL TO BE TRANE CASSETTE CONNECTED TO CONTROL SYSTEM. PROVIDE CONDENSATE PUMP. INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNIT THRU FIELD SUPPLIED INTERCONNECTED WIRING PROVIDED AND INSTALLED BY CONTRACTOR. CONNECT TO TRANE CONTROL SYSTEM AS REQUIRED.

| HEAT PUMP UNIT SCHEDULE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GENERAL | | | COOLING | | | | ELECTRICAL | | |
| MARK | SERVICE | NOMINAL TONNAGE | SEER | AMBIENT | TOTAL BTU/HR | SEER | MCA | VOLTS / PHASE | COMMENTS |
| OU-1 | IU-1 | 1 | 18 | 105 | 12000 | 18 | 10 | 208/1 | 1 |
| OU-2 | IU-2 | 1 | 18 | 105 | 12000 | 18 | 10 | 208/1 | 1 |

1. UNIT TO BE EQUAL TO TRANE. PROVIDE DISCONNECT & STARTER. SIZE PIPING PER MANUFACTURER'S REC.

| AIR HANDLING UNIT SCHEDULE | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARK | SUPPLY AIR-CFM | OSA CFM | EXT. S.P.W.G | VOLTS/ PHASE | Fan HP | RFEFRIGERANT | DX COOLING COIL | | | | ELEC HEAT | | REMARKS |
| | | | | | | | ENT. AIR TEMP. | | SENSIBLE BTU/HR | TOTAL BTU/HR | KW | UNIT MCA | |
| | | | | | | | db°F | wb°F | | | | | |
| AHU-1 | 1,600 | 240 | 0.75 | 208/1 | 3/4 | R-410A | 80 | 67 | 38,400 | 48,000 | 10.8 | 45 | 1 |
| AHU-2 | 2,000 | 300 | 0.75 | 208/1 | 3/4 | R-410A | 80 | 67 | 48,000 | 60,000 | 12 | 48 | 1, 2 |
| AHU-3 | 2,000 | 300 | 0.75 | 208/1 | 3/4 | R-410A | 80 | 67 | 48,000 | 60,000 | 12 | 48 | 1, 2 |
| AHU2-1 | 800 | 120 | 0.75 | 208/1 | 3/4 | R-410A | 80 | 67 | 19,200 | 24,000 | 7.5 | 30 | 1, 2 |
| AHU3-1 | 800 | 120 | 0.75 | 208/1 | 3/4 | R-410A | 80 | 67 | 19,200 | 24,000 | 7.5 | 30 | 1, 2 |

1. AHU TO BE TRANE WITH ECM MOTOR. PROVIDE DISCONNECT AND PROGRAMMABLE THERMOSTAT. SIZE REFRIGERANT PIPE PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING SHALL BE TYPE ACR DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. REFRIGERANT PIPING TO HAVE 3/8" ARMAFLEX INSULATION. PROVIDE VALVES AND SPECIALTIES IN ACCORDANCE WITH EQUIPMENT MFR.'S RECOMMENDATIONS. UNIT TO MEET DOE 2023 REQUIREMENTS

| HEAT PUMP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GENERAL | | | | | | | ELECTRICAL | | |
| MARK | SERVICES | NOMINAL TONNAGE | AMBIENT | TOTAL BTU/HR | SEER | IEER | VOLTS / PHASE | MCA | COMMENTS |
| HP-1 | AHU-1 | 4 | 105 | 48000 | 17 | - | 208/3 | 18 | 1 |
| HP-2 | AHU-2 | 5 | 105 | 60000 | 17 | - | 208/3 | 21 | 1 |
| HP-3 | AHU-3 | 5 | 105 | 60000 | 17 | - | 208/3 | 21 | 1 |
| HP2-1 | AHU2-1 | 2 | 105 | 24000 | - | - | 208/1 | 13 | 1 |
| HP3-1 | AHU3-1 | 2 | 105 | 24000 | - | - | 208/1 | 13 | 1 |

1. UNIT TO BE TRANE. PROVIDE SUCTION SERVICE VALVE. PROVIDE 5 YEAR COMPRESSOR WARANTY AND ONE YEAR PARTS WARRANTY. UNIT TO MEET DOE 2023 REQUIREMENTS

| EXHAUST FAN SCHEDULE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GENERAL DATA | | | | | | | ELECTRICAL | | COMMENTS |
| MARK | CFM | MAX SONE RATING | EST EXT SP INWG | DISCHARGE | TYPE | DRIVE | HP | VOLTS / PHASE | |
| EF-1 | 30 | 2.5 | 0.5 | WALL | CABINET | DIRECT | 80 WATTS | 120/1 | 1 INTERLOCK WITH LIGHT |
| EF-2 | 75 | 2.5 | 0.5 | WALL | CABINET | DIRECT | 100 WATT | 120/1 | 1 INTERLOCK WITH LIGHT |
| EF-3 | 150 | 5 | 0.5 | WALL | CABINET | DIRECT | 100 WATT | 120/1 | 1 INTERLOCK WITH TSTAT |

1. FAN TO BE EQUAL TO COOK GC WITH GRILLE KIT, DISCONNECT, BACKDRAFT DAMPER, SPEED CONTROLLER, AND ALL ACCESSORIES FOR INTERLOCKING


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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

SCHEDULES - MECHANICAL

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

## PLUMBING FIXTURES

| TAG | FIXTURE | FLUSH/FAUCET/SHOWER HEAD | REMARKS | TRAP | MIN PIPE CONNECTION SW | VENT | CW | HW |
|---|---|---|---|---|---|---|---|---|
| WC-1 | WATER CLOSET, WHITE VITROUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, COMFORT HEIGHT, 1.28 GPF,SELECTED BY OWNER | FLUSH TANK . VERIFY QUANTITY OF LEFT AND RIGHT HAND FLUSH VALVES AS REQUIRED | SEAT TO BE ELONGATED . SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES. WHITE. RIM HEIGHT TO BE PER ARCH | INT | 3" | 2" | 1/2" | NA |
| WCA-1 | WATER CLOSET, ADA, WHITE VITROUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, COMFORT HEIGHT, 1.28 6GPF, SELECTE DBY OWNER | FLUSH TANK . VERIFY QUANTITY OF LEFT AND RIGHT HAND FLUSH VALVES AS REQUIRED | SEAT TO BE ELONGATED . SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES. WHITE. RIM HEIGHT TO BE PER ADA | INT | 3" | 2" | 1/2" | NA |
| WCA-2 | WATER CLOSET, ADA, WHITE VITROUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, COMFORT HEIGHT, 1.28 6GPF, SELECTE DBY OWNER | FLUSH TANK . VERIFY QUANTITY OF LEFT AND RIGHT HAND FLUSH VALVES AS REQUIRED | SEAT TO BE ELONGATED . SOLID PLASTIC WITH SELF SUSTAINING CHECK HINGES. WHITE. RIM HEIGHT TO BE PER ADA | INT | 4" | 2" | 1" | NA |
| L-1 | WHITE VITREOUS CHINA, UNDERMOUNT WITH OVERFLOW, SELECTED BY OWNER | SINGLE HANDLE MAX 1.5 GPM, STRAINER/POP UP DRAIN). HOT COLD INDICATORS . SELECTED BY OWNER | | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| L-1A | WHITE VITREOUS CHINA, UNDERMOUNT WITH OVERFLOW, SELECTED BY OWNER ADA | SINGLE HANDLE MAX 1.5 GPM, STRAINER/POP UP DRAIN). HOT COLD INDICATORS . SELECTED BY OWNER | | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| L-2 | WHITE VITREOUS CHINA, UNDERMOUNT WITH OVERFLOW, SELECTED BY OWNER | SINGLE HANDLE MAX 1.5 GPM, STRAINER/POP UP DRAIN). HOT COLD INDICATORS . SELECTED BY OWNER | | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| S-1 | 1 COMP304 18 GA STAINLESS STEEL SINK. CENTER REAR DRAIN. SELECTED BY OWNER | DECK MOUNTED, SELECTED BY OWNER | | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| S-2 | 2 COMP304 18 GA STAINLESS STEEL SINK. CENTER REAR DRAIN. SELECTED BY OWNER | DECK MOUNTED, SELECTED BY OWNER | INSTALL DISPOSAL UNDER SINK. SEE DESIGN STANDARDS FOR REQUIRED SPECIFICATION FOR EQUIPMENT | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| S-3 | 3 COMPARTMENT SINK SELECTED BY OWNER | 3 COMPARTMENT SINK SELECTED BY OWNER | 3 COMPARTMENT SINK SELECTED BY OWNER | 1 1/2" | 1 1/2" | 1 1/2" | 3/4" | 3/4" |
| HS-1 | HANDSINK SELECTED BY OWNER | HANDSINK SELECTED BY OWNER | HANDSINK SELECTED BY OWNER | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| LS-1 | LAUNDRY STAINLESS STEEL WALL HUNG WITH BACK SPLASH. 2 COMPARTMENT DEEP SINK | 2 HANDLE WALL MOUNT, | 3" TRAP INCLUDED WITH SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| LS-2 | LAUNDRY WALL HUNG WITH BACK SPLASH. KOHLER K-5980 | 2 HANDLE WALL MOUNT, KOHLER K-7853 WITH K-8801 STRAINER | 3" TRAP INCLUDED WITH SINK | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| MS-1 | 1 PIECE MOLDED STONE WITH MOLDED DRAIN & SEAL. REMOVABLE STAINLESS STRAINER 24"X24"X10" FIAT MSB1D2424-100 OR EQUAL | SERVICE SINK FAUCET, CHROME PLATED INTEGRAL VACUUM BREAKER. WALL BRACE WITH LEVER HANDLES AND HOSE THREADED SPOUT EQUAL TO FIAT 830-AA-000 | PROVIDE MOP HANGER FIAT 889-CC-00 OR EQUAL. STAINLESS STEEL WALL GUARD MSG2424-000 | 3" | 3" | 3" | 3/4" | 3/4" |
| BT-1 | TUB & SHOWER, ADA COMPLIANT. PROVIDE RIGHT AND LEFT HAND AS REQUIRED. REFER TO ARCH SERIES FOR DETAILS AND ADA TRIM. | SEE ID PLANS | SEE ID PLANS | 2" | 2" | 2" | 1/2" | 1/2" |
| BTA-1 | TUB & SHOWER, ADA COMPLIANT. PROVIDE RIGHT AND LEFT HAND AS REQUIRED. REFER TO ARCH SERIES FOR DETAILS AND ADA TRIM. | SEE ID PLANS | SEE ID PLANS | 2" | 2" | 2" | 1/2" | 1/2" |
| SH-1 | SHOWER SEE ARCH PLANS | SEE ID PLANS | SEE ID PLANS | 2" | 2" | 2" | 1/2" | 1/2" |
| SH-1A | ADA SHOWER SEE ARCH PLANS | SEE ID PLANS | SEE ID PLANS | 2" | 2" | 2" | 1/2" | 1/2" |
| EW-1 | EMERGENCY EYE WASH , 11" DIA BOWL ABS, WALL MOUNTED. 42" AFF, HAWS 77260BT | | PROVIDE 1 1/4" OSY SHUTOFF GATE VALVE ACCESSIBLE TO MAINTENANCE PERSONNEL ON SUPPLY LINE. PROVIDE TEMPERED WATER TO EYE WASH. PROVIDE THERMOSTATIC MIXING VALVE HAWS 9201EW | 2" | 2" | 2" | 3/4" | 3/4" |
| DF-1 | ADA COMPLIANT. DUAL HEIGHT ADA ELECTRIC WATER COOLER. WALL HUNG, 8 GPH OF 50 F AT 80 F INPUT AT 90 F AMBIENT. EQUAL TO ELKAY EZTL8. MOUNT PER ARCH SHEETS | | PUSH BARS AND BUTTONATTACHMENT HARDWARE TO BE METAL. FOUNTAIN AND CASING TO BE STAINLESS STEEL. 1 1/2" 17 GA BRASS P TRAP. ZURN ZR365-PC. PROVIDE SUPPLY STOPS. PROVIDE CONCEALED | 1 1/2" | 1 1/2" | 1 1/2" | 1/2" | |
| FD-1 | CAST IRON SQUARE FLOOR DRAIN WITH BOTTOM OUTLET. COMBO INVERTIBLE MEMBRANE CLAMP, ADJ COLLAR, SEEPAGE OPENINGS, POLISHED NICKEL BRONZE LIGHT DUTY LEVELING STRAINER WITH | | SET TOP OF DRAIN FLUSH WITH FF. PROVIDE TRAP GUARD INSERT ON ALL FLOOR DRAINS NOT CONNECTED TO TRAP PRIMER | PLANS | PLANS | 3" | | |
| FCO | CAST IRON CLEANOUT WITH THREADED ADJ HOUSING. FLANGED FERRULE WITH TAPERED BRASS PLUG. ROUND SECURED, SCORIATED NICKEL BRONZE TOP. EQUAL TO ZURN Z1400 | | | PLANS | PLANS | | | |
| WCO | CAST IRON CLEANOUT WITH T TAPERED BRASS PLUG. ROUND STAINLESS STEEL COVER PLATE WITH SCREW EQUAL TO | | | PLANS | PLANS | | | |
| GCO | GRADE CLEANOUT: HEAVY DUTY CAST IRON CLEANOUTWITH THREADED ADJ HOUSING FLANGED FERRULE WITH TAPERED BRASS PLUG. HEAVY DUTY SECURED SCORIATED CAST IRON TOP - ZURN Z1400 | | | PLANS | PLANS | | | |
| NFHB-1 | WALL HYDRANT NON FREEZE. KEY OPERATED WITH CHROME PLATED FACE. INTEGRAL VACUUM BREAKER, ZURN Z1300 | | 3/4" HOSE CONNECTION, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS, GALVANIZED WALL CASING AND HYDRANT KEY. MOUNT 24" AFF TO BOTTOM OF HYDRANT | - | - | - | 3/4" | - |

## RECIRCULATION PUMP

| MARK | SERVICE | GPM | HEAD | HP | VOLT PHA | TYPE | REMARKS |
|---|---|---|---|---|---|---|---|
| CP-1 | HWR | 10 | 40 | 1/10 | 120/1 | INLINE | 1 |

1. PROVIDE UNIONS AT PUMP FOR SERVICE. TO BE UL/FM LISTED AND APPROVED. EQUAL TO B&G NBF. PROVIDE DISCONNECT

## BACK FLOW PREVENTER

| MARK | SERVICE | SIZE | PRESSURE DROP | REMARKS |
|---|---|---|---|---|
| BFP-1 | BLDG CW | 2 1/2" | 10 PSIG | 1 |

1. TO BE LEAD FREE. TO BE WATTS WITH AIR GAP AND STRAINER

## LEGEND

| LINE TYPE | DESCRIPTION |
|---|---|
| | SANITARY WASTE (SW) |
| | SANITARY VENT (SV) |
| | COLD WATER (CW) |
| | HOT WATER (HW) |
| CD | CONDENSATE DRAIN (CD) |

## ABBREVIATIONS

| | |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| ARCH | ARCHITECTURAL |
| CO | CLEANOUT |
| CONC | CONCRETE |
| DN | DOWN |
| DWG | DRAWING |
| ELEV | ELEVATION |
| ELEC | ELECTRICAL |
| FF | FINISHED FLOOR |
| FCO | FLOOR CLEANOUT |
| MECH | MECHANICAL |
| REQD | REQUIRED |
| SECT | SECTION |
| STRUCT | STRUCTURAL |
| TYP | TYPICAL |
| WCO | WALL CLEANOUT |
| WHA | WATER HAMMER ARRESTER |

## SYMBOLS

| | |
|---|---|
| PIPE TURNED DOWN | |
| PIPE TURNED UP | |
| SOLENOID VALVE | S |
| CAP | |
| BALANCING VALVE | |
| BALL VALVE | |
| CHECK VALVE | |
| HOSE FAUCET | |
| VENT THRU ROOF (VTR) | |

## SPECIFICATIONS - PLUMBING

A. MATERIALS AND WORKMANSHIP
1. THE PLUMBING PLANS ARE DIAGRAMMATIC AND NOT TO BE SCALED.
2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS, AND SHALL FIT THE WORK ACCURATELY TO THE BUILDING.

B. PERMITS AND FEES
1. THE CONTRACTOR SHALL MAKE APPLICATION, AND PAY ALL RELATED FEES AND COSTS FOR PERMITS, INSPECTIONS, AND TESTS AS REQUIRED BY THE LOCAL AUTHORITY. INCLUDE COSTS IN CONTRACT PRICE.

D. DRAINAGE SYSTEMS
1. FURNISH AND INSTALL ALL SOIL, WASTE, VENT, AND DRAIN PIPING AS INDICATED.
2. ALL ABOVE GRADE STORM DRAIN, SOIL, WASTE, VENT, AND DRAIN PIPING SHALL BE SERVICE WEIGHT NO-HUB CAST IRON OR DWV SCH. 40 PVC. FIXTURE PIPING EXPOSED IN FINISHED AREAS SHALL BE CHROME PLATED BRASS. FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
3. INDIRECT WASTE AND CONDENSATE DRAIN PIPING SHALL BE DWV COPPER. ALL FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
4. SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE SUBJECTED TO A WATER TEST OF NOT LESS THAN TEN FEET OF HYDROSTATIC HEAD FOR A PERIOD OF NOT LESS THAN THIRTY MINUTES PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.

E. WATER PIPING (DOMESTIC)
1. HOT, HOT RETURN, AND COLD WATER PIPING SHALL BE TYPE 'L' COPPER ABOVE GRADE.
2. FITTINGS SHALL BE WROT COPPER.
3. TEST WATER PIPING AT 125 PSI FOR A PERIOD OF 24 HOURS PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.

F. PIPE JOINTS
1. JOINTS IN CAST-IRON SOIL, WASTE AND VENT PIPING ABOVE GRADE SHALL BE MADE WITH NO-HUB CLAMPS.
2. JOINTS IN DWV PVC PIPING SHALL BE MADE WITH SOLVENT WELD.
3. JOINTS IN COPPER PIPING ABOVE GRADE SHALL BE SOLDERED JOINTS MADE WITH GRADE 95 TA LEAD-FREE SOLDER WITH A NON-CORROSIVE, PETROLEUM-BASED FLUX AS RECOMMENDED BY THE PIPE MANUFACTURER.
4. JOINTS IN STEEL PIPING SHALL BE THREADED AND MADE WITH STANDARD FITTINGS WITH A WORKING PRESSURE OF 165 PSI.
5. JOINTS BETWEEN PIPING OF DISSIMILAR MATERIALS SHALL BE MADE USING DIELECTRIC UNIONS.

G. BALL VALVES
1. VALVES SHALL BE BRONZE OR BRASS THROUGHOUT.
2. VALVES SHALL BE RATED FOR 125 PSI, AND BE MADE BY NIBCO OR EQUAL.

H. INSULATION
1. COLD WATER AND CONDENSATE DRAIN PIPING ABOVE GRADE SHALL BE COVERED WITH 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.
2. HOT WATER SUPPLY AND RETURN PIPING ABOVE GRADE SHALL BE COVERED WITH 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.

I. HANGERS
1. HANGERS FOR COPPER PIPING SHALL BE CLEVIS OR SPLIT-RING AS MANUFACTURED BY GRINNELL OR EQUAL, AND SHALL BE COPPER-CLAD OR PVC-COATED TO PREVENT GALVANIC CORROSION.
2. HANGERS FOR SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE CLEVIS HANGERS AS MANUFACTURED BY GRINNELL OR EQUAL.

J. CLEAN-UP
1. AFTER ALL FIXTURES HAVE BEEN SET, INSPECTED, AND TESTED THEY SHALL BE THOROUGHLY CLEANED BY THE PLUMBING CONTRACTOR PRIOR TO LEAVING THE SITE.

## PLUMBING NOTES:

1. ONLY KNOWN SERVICES IN THE PROJECT AREA ARE SHOWN IN DRAWING SET. CONTRACTOR TO FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL COORDINATE THE DISRUPTION OF ANY SERVICE WITH THE LOCAL OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO DISRUPTION.
3. CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. CONTRACTOR SHALL INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS FURNISHING CUTOFF VALVES, P-TRAPS, PRESSURE REDUCING VALVES, AND PIPING AS REQUIRED.
4. CONTRACTOR SHALL FURNISH AND INSTALL SHOCK ABSORBERS ON PIPING SERVING FLUSH VALVE FIXTURES AND/OR QUICK CLOSING VALVES (SOLENOID OPERATED, ETC.) IN ACCORDANCE WITH "PLUMBING AND DRAINAGE INSTITUTE" (PDI-WH-201) GUIDELINES.
5. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES INVOLVED TO AVOID ANY PIPE ROUTING PROBLEMS. IN THE EVENT CONFLICTS ARE ENCOUNTERED WHICH CANNOT BE RESOLVED BY THE TRADES INVOLVED, THE ARCHITECT SHALL BE CONSULTED AND HIS DECISION SHALL GOVERN.
6. ALL VENTS SHALL BE A MINIMUM OF 15'-0" AWAY FROM ALL FRESH AIR INTAKES FOR AIR HANDLING UNITS.
7. WHERE ROOF PENETRATIONS OF VENTS AND WASTE STACKS LESS THAN THREE INCHES (3") ARE PROHIBITED BY CODE. PROVIDE INCREASERS IN PIPE BELOW ROOF SLAB.
8. FURNISH AND INSTALL DEEP SEAL P-TRAPS ON FLOOR DRAINS NOT FED BY AN AUTOMATIC TRAP PRIMER SYSTEM, WHERE REQUIRED BY CODE.
9. ALL FIXTURES, EQUIPMENT AND PIPING SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
10. PENETRATIONS THROUGH NEW WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED AS DIRECTED BY THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. ALL NEW PIPE PENETRATIONS OF FIRE RATED WALLS, AS SHOWN BY THE LIFE SAFETY PLANS, SHALL HAVE A UL LISTED F RATING EQUAL TO THE WALL FIRE RATING. REFER TO THE WALL PENETRATION DETAILS FOR FURTHER INFORMATION.
12. ALL WORK SHOWN IS PART OF BASE BID EXCEPT WHERE OTHERWISE DESIGNATED.
13. SEISMICALLY BRACE ALL PIPE AS REQUIRED BY LOCAL CODE REQUIREMENTS.
14. THERE SHALL BE NO PLASTIC PIPING ROUTED IN OR THROUGH A RETURN AIR PLENUM SPACE.
15. CONTRACTOR TO PROVIDE AND INSTALL A BALANCED DOMESTIC HOT WATER AND HOT WATER RETURN SYSTEM, SUCH THAT HOT WATER IS AVAILABLE TO ALL FIXTURES WITHIN A MAXIMUM TIME OF 10 SECONDS.
16. ALL PLUMBING FIXTURES, PIPING, EQUIPMENT, ETC. TO BE INSTALLED PER LOCAL CODE REQUIREMENTS.

## INSTANTANEOUS WATER HEATER

| MARK | TYPE | BTUH INPUT | FLOW | TEMP RISE | ELEC | REMARKS |
|---|---|---|---|---|---|---|
| WH-2 | NAT GAS | 199000 | 9.5 | 80 | 120/1 | 1 |
| | | | | | | |

1. TO BE EQUAL TO RINNAI CU199I WITH NEUTRALIZATION KIT.

## WATER HEATER

| MARK | TYPE | BTUH INPUT | RECOVERY GPH | TEMP RISE | ELEC | REMARKS |
|---|---|---|---|---|---|---|
| WH-1 | NAT GAS | 199000 | 230 | 100 | 120/1 | 1 |
| | | | | | | |

1. TO BE CONDENSING TYPE WITH CONDENSATE NEUTRALIZATION KIT, SEISMIC RESTRAINTS. EQUAL TO AO SMITH BTH-199


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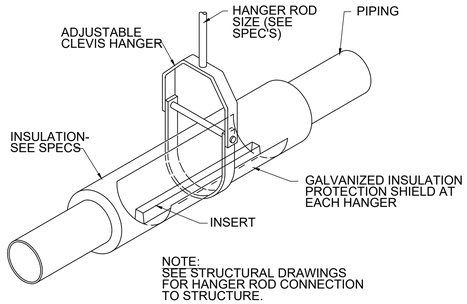
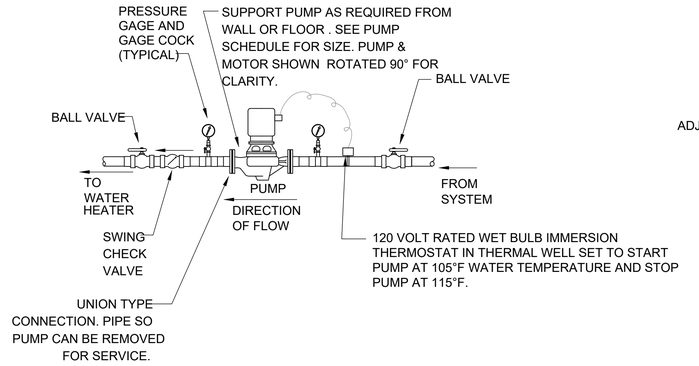
DRAWING NAME
GENERAL NOTES -PLUMBING

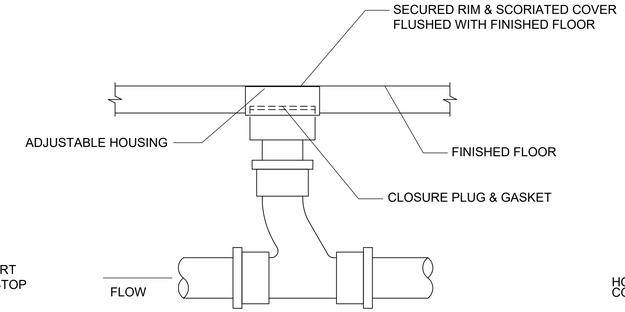
DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:
P001



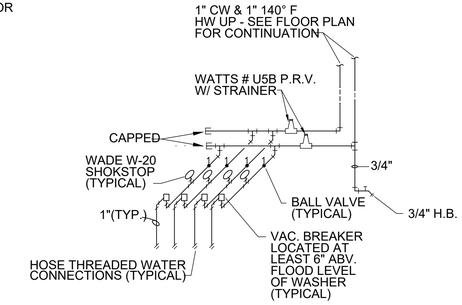

## 1 Pipe Hanger & Insulation Detail
Not To Scale



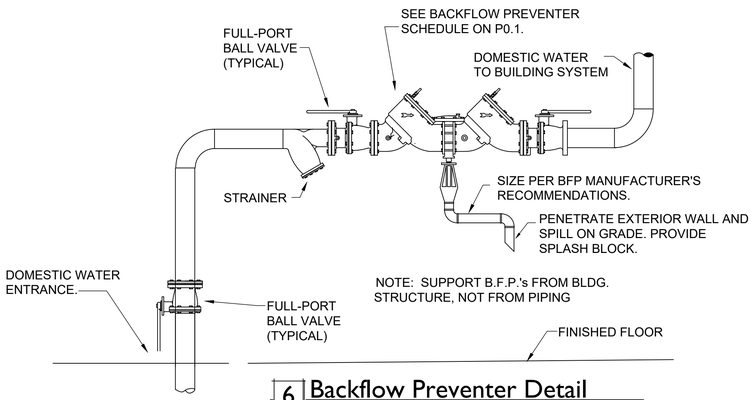

## 2 Recirculation Inline Pump Detail
Not To Scale



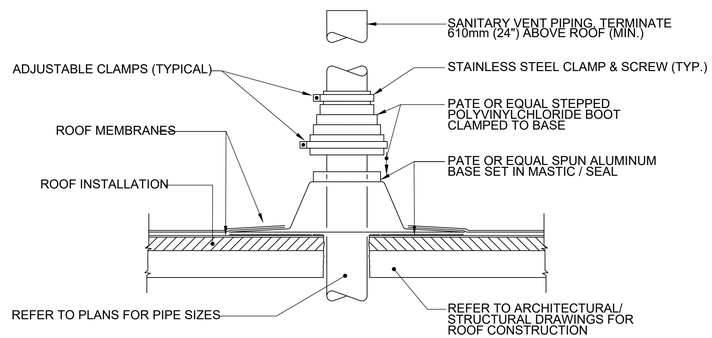

## 4 Floor Cleanout Detail
Not To Scale



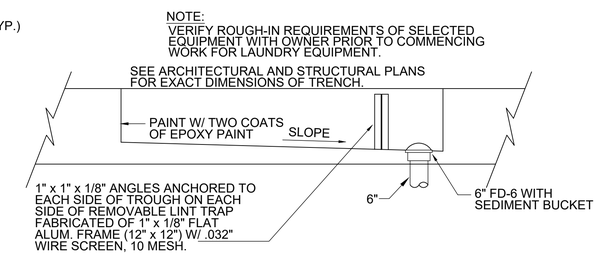

## 5 Washer Connection Schematic
Not To Scale



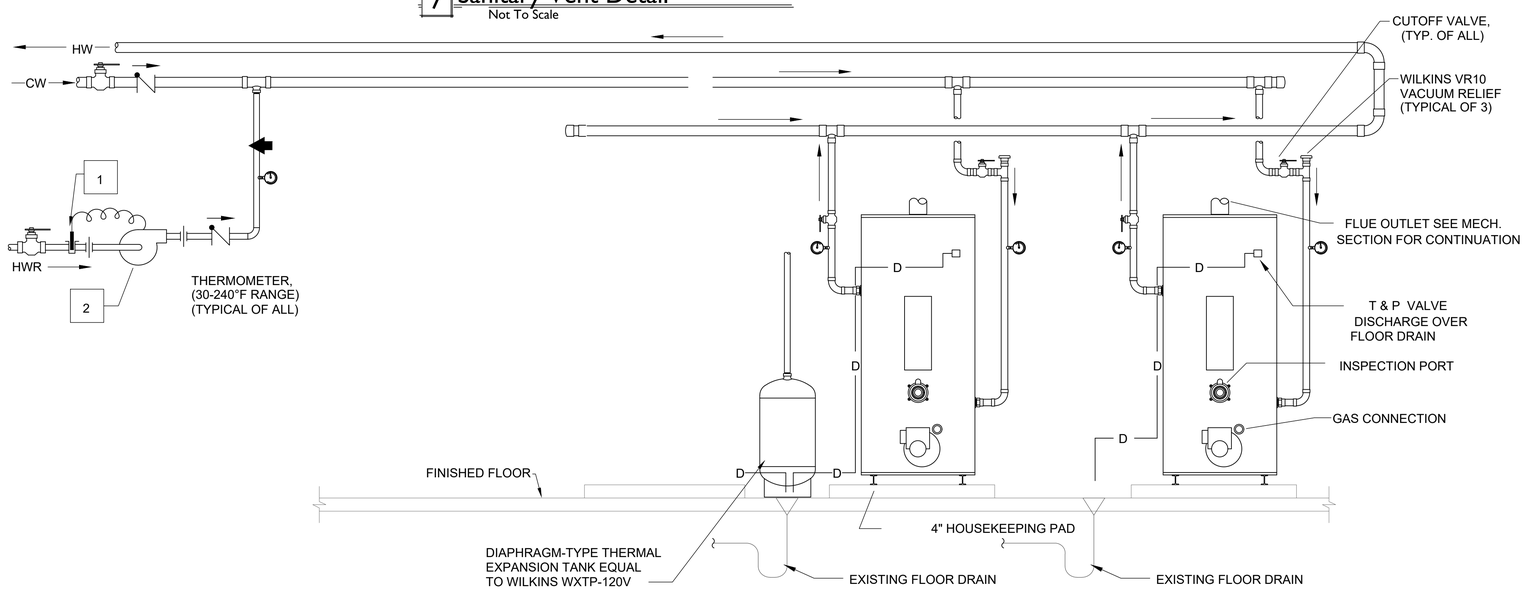

## 6 Backflow Preventer Detail
Not To Scale




## 7 Sanitary Vent Detail
Not To Scale




## 8 Washer Trench Piping Schematic
Not To Scale




1 ADJUSTABLE IMMERSION THERMOSTAT IN HWR LINE UPSTREAM OF CIRCULATING PUMP SET TO DEENERGIZE PUMP WHEN HWR TEMPERATURE IS 110°F OR HIGHER.

2 HOT WATER RETURN CIRCULATING PUMP SEE DETAIL

## 10 Gas Fired Water Heater Detail
Not To Scale

NOTES: INSTALLATION SHALL BE IN ACCORANCE WITH MANUFACTURERS INSTRUCTIONS. SEE PLAN & SCHEDULE FOR QUANTITY OF WHS AND MODIFY PIPING AS REQUIRED.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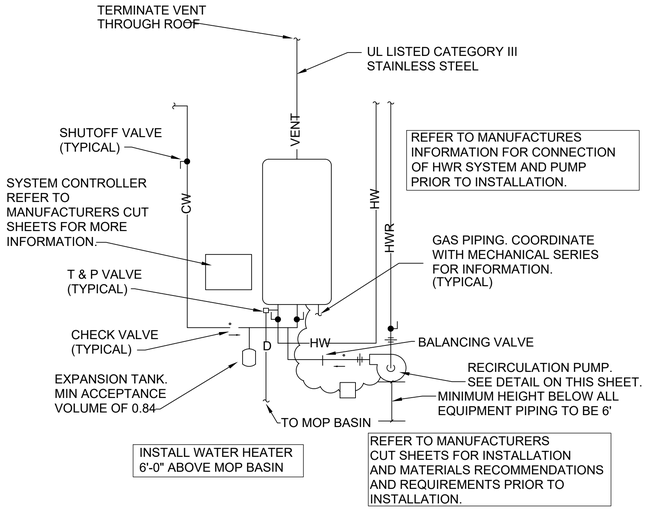
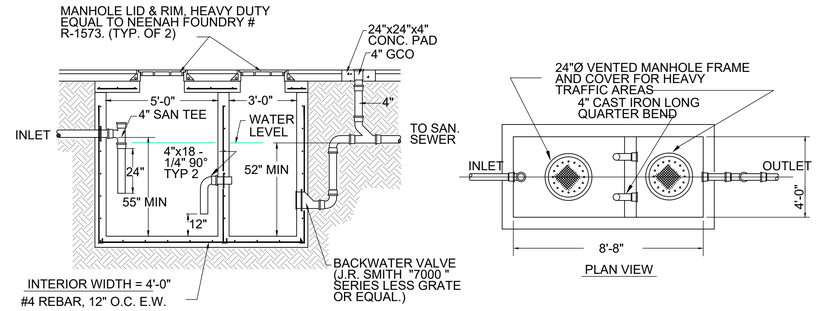
|---|---|---|

DRAWING NAME
DETAILS -PLUMBING

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:
P002

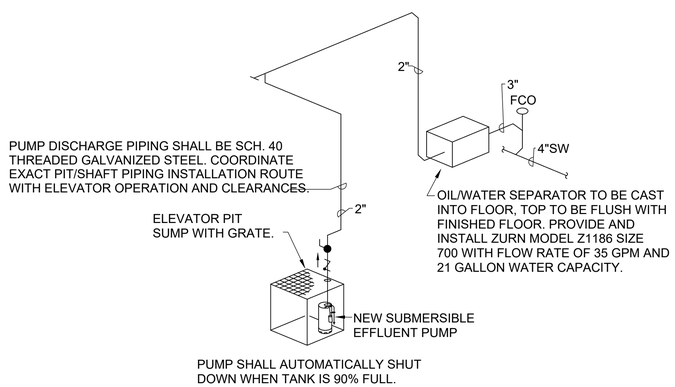



## 1 Tankless Gas Fired Water Heater Detail
Not To Scale




IF POURED MONOLITHICALLY, WALLS AND BOTTOM TO BE 6" THICK. IF BOTTOM IS POURED SEPARATELY WATER STOPS MUST BE USED, WALLS AND BOTTOM TO BE 8" MIN. W/ 3" COVER TO WATERSTOP.

## 2 Grease Trap Detail
Not To Scale

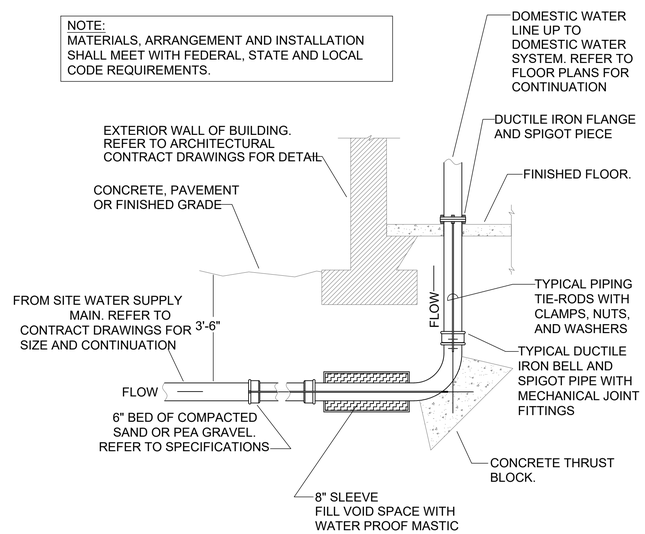



NOTES:

PROVIDE AND INSTALL A NEW LIBERTY SUMP PUMP MODEL NUMBER 243. PROVIDE PUMP WITH 1/4 H.P. @ 115V. COORDINATE WITH ELECTRICIAN FOR ALL POWER REQUIREMENTS.

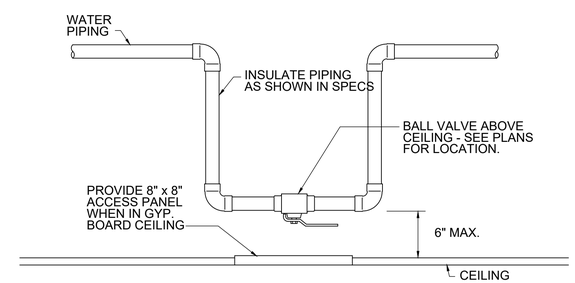
## 3 Elevator Sump Pump Detail
Not To Scale

NOTE:
MATERIALS, ARRANGEMENT AND INSTALLATION SHALL MEET WITH FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.




NOTE:
REFER TO SPECIFICATIONS FOR REQUIRED AND SPECIFIED PIPING MATERIALS. INSTALLATION OF DOMESTIC WATER PIPING SHALL BE DONE BY LICENSED PLUMBING CONTRACTOR.

## 4 Domestic Water Entrance Detail
Not To Scale




## 5 Valve Placement Detail
Not To Scale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AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/14

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
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DRAWING NAME
DETAILS -PLUMBING

DRAWN BY:
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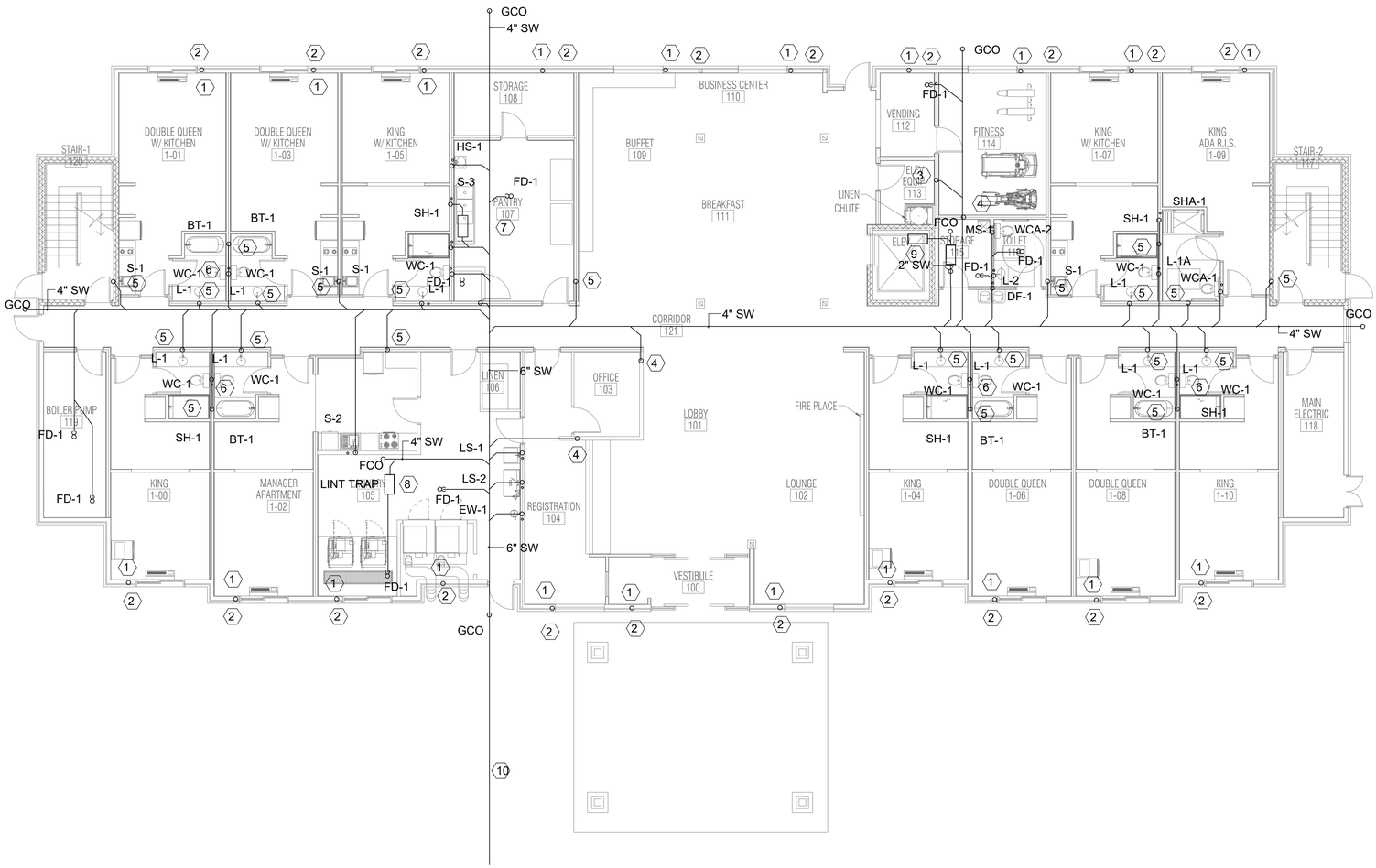
APPROVED BY:
DRAWING NUMBER:
P003




1 1/2" CONDENSATE RISER FOR PTACS

EXTEND 2" IW TO STORM MAIN ON SITE AS REQUIRED. SEE CIVIL PLAN FOR LOCATION

3" SW UP

4" SW UP

3" SW/V UP

4" SW UP, 2" V UP

3" INDIRECT WASTE TO GREASE TRAP. OWNER SHALL APPLY TO LOCAL CODE FOG PROGRAM FOR REQUIRED SIZE OF GREASE TRAP. LOCATE ZURN GT2700 UNDER SINK

PROVIDE LINT TRAP. COORDINATE WITH EQUIPMENT SUPPLIER

ELEVATOR SUMP PUMP & O/W SEPARATOR SEE DETAIL

EXTEND 6" SW TO SITE SEE CIVIL. VERIFY SITE CONDITIONS PRIOR TO PIPING ROUGIN

## 1 FIRST FLOOR PLAN - DWV

SCALE 1/8" = 1'-0"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FIRST FLOOR PLAN -PLUMBING DWV

DRAWN BY:

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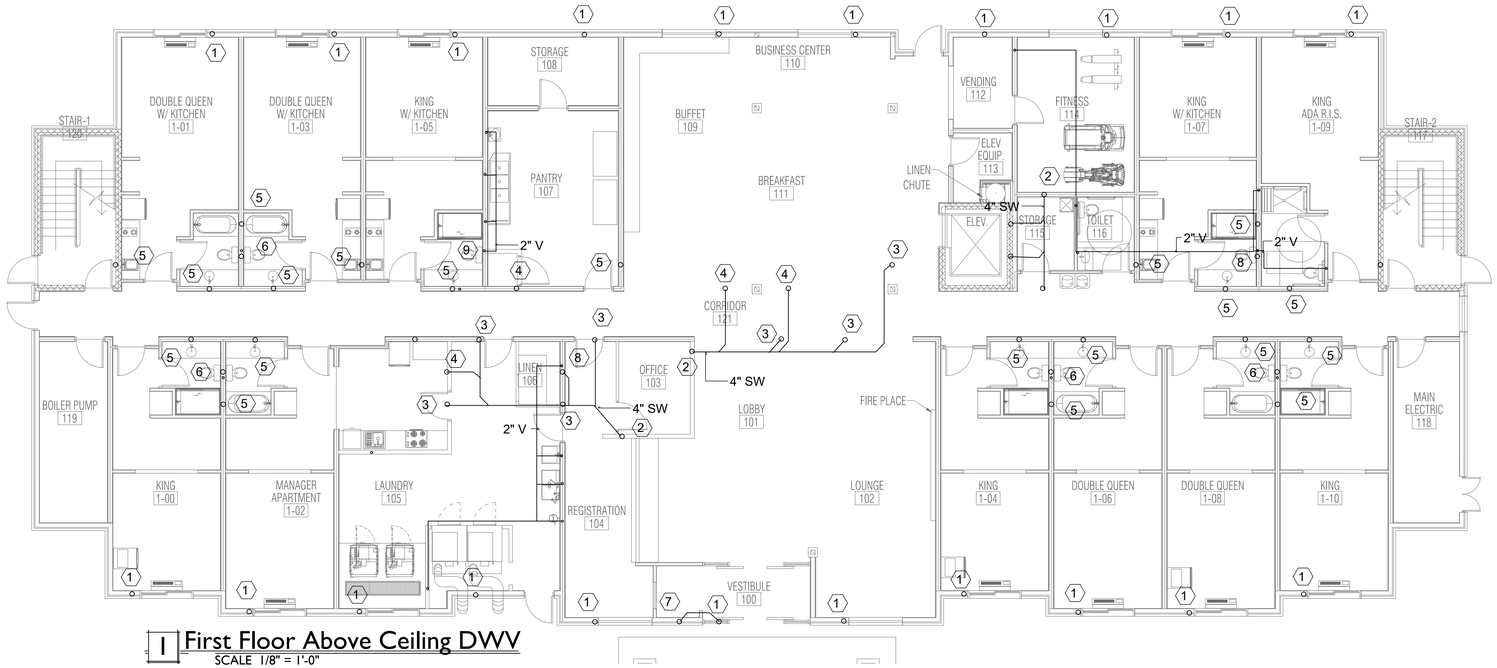
APPROVED BY:

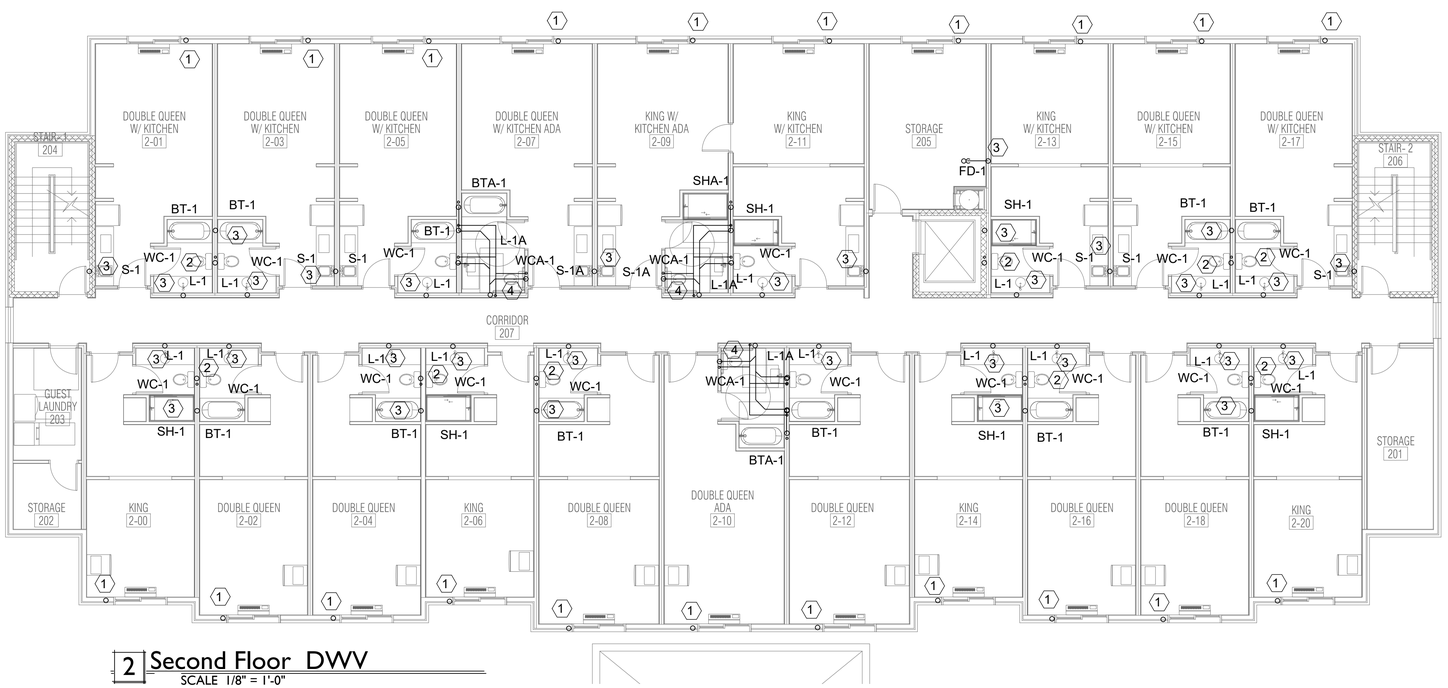
DRAWING NUMBER:

P101




1 First Floor Above Ceiling DWV
SCALE 1/8" = 1'-0"

1. 1 1/2" CONDENSATE RISER FOR PTACS
2. OFFSET 4" RISER FROM ABOVE DN IN WALL
3. 3" SW UP
4. 4" SW UP
5. 3" SW/V UP AND 3" SW DN
6. 4" SW UP, 2" V UP, AND 4" SW DN
7. OFFSET IW DN IN WALL
8. 4" SW UP 3" V UP
9. 3" v UP




2 Second Floor DWV
SCALE 1/8" = 1'-0"

1. 1 1/2" CONDENSATE RISER FOR PTACS
2. 4" SW RISER & 2" V UP/DN
3. 3" SW/V RISER UP/DN
4. 4" SW RISER & 3" V UP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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/14

CONSULTANTS NAME:

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DRAWING NAME
FLOOR PLAN -PLUMBING

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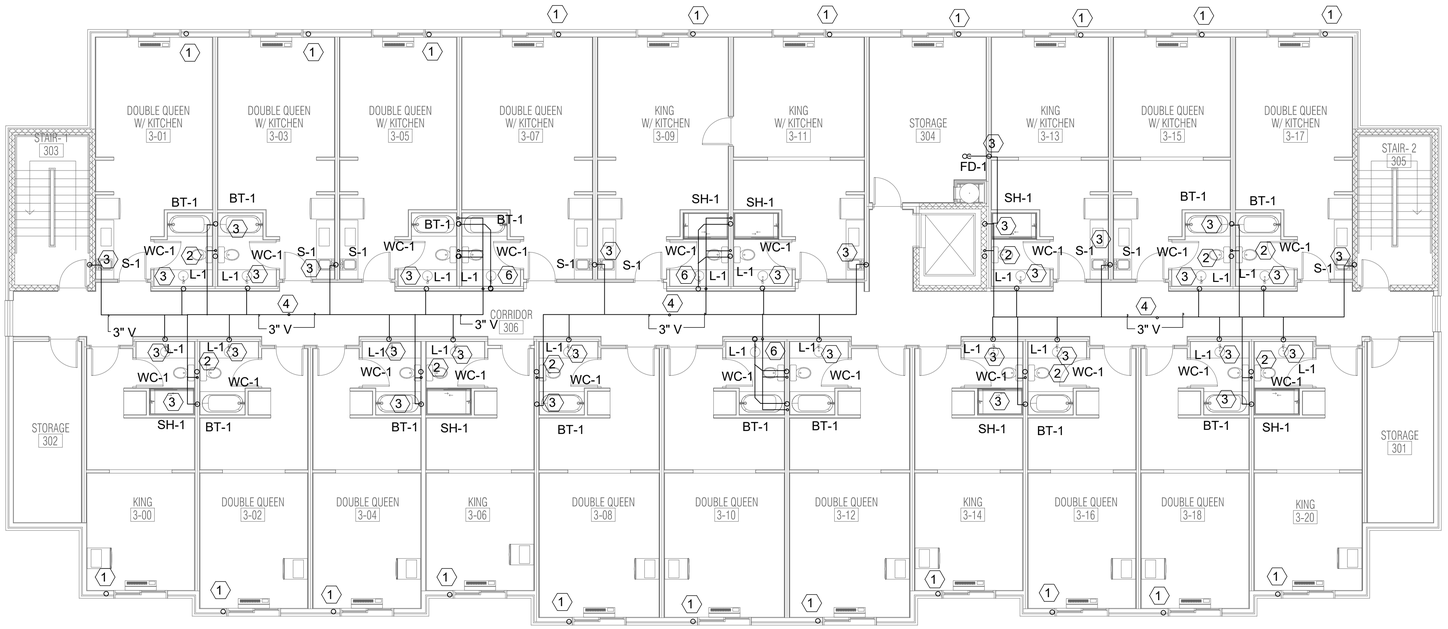
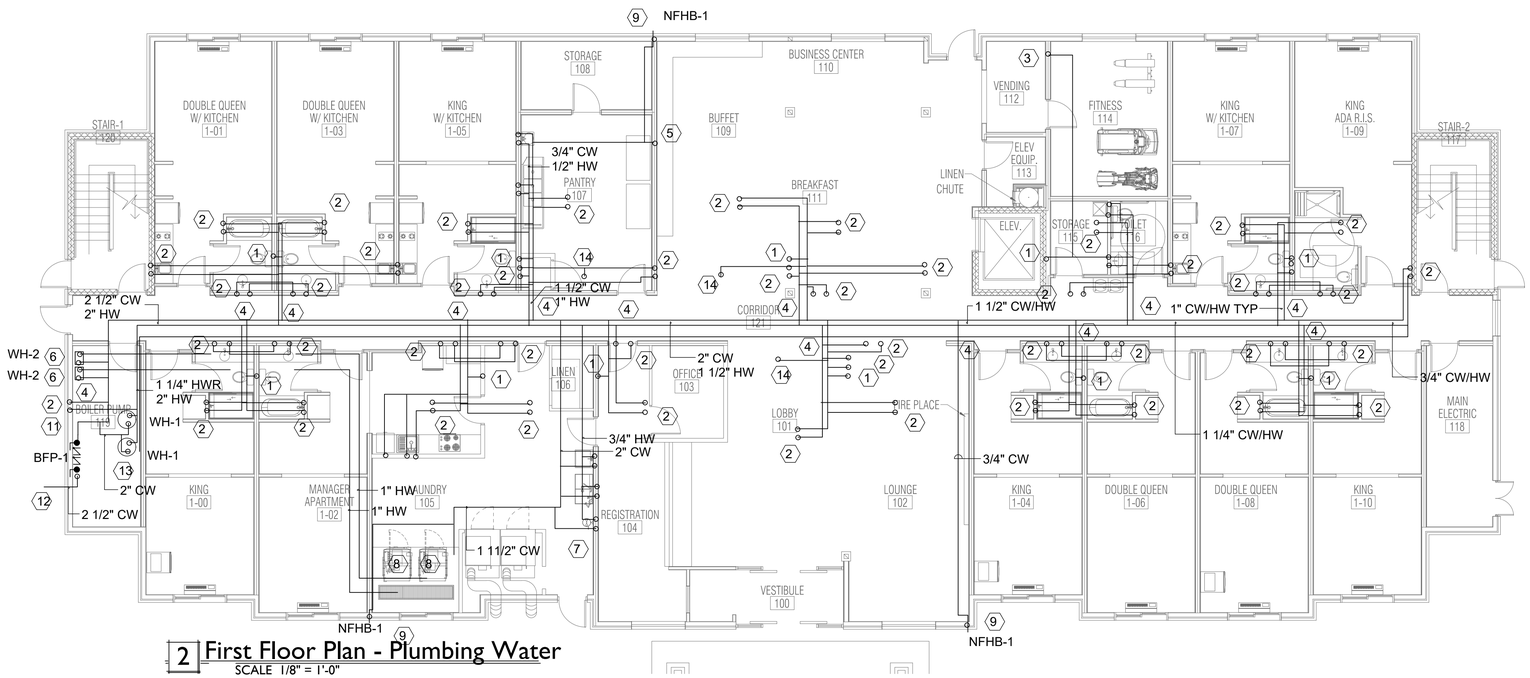
P102




1 Third Floor Plan - Plumbing DWV
SCALE 1/8" = 1'-0"

1. 1 1/2" CONDENSATE RISER FOR PTACS
2. 4" SW RISER & 2" V DN
3. 3" SW/V RISER DN
4. ROUTE 4" VTR
5. ROUTE 3" VTR
6. 4" SW RISER & 3" V DN




2 First Floor Plan - Plumbing Water
SCALE 1/8" = 1'-0"

1. 1" CW UP
2. 3/4" CW/HW UP
3. EXTEND CW TO ICE MAKER.
4. PROVIDE CW & HW ISOLATION VALVES ABOVE CEILING. TYPICAL FOR ALL BRANCH LINES
5. PROVIDE $\frac{1}{2}$" CW CONNECTION WITH RPZ AS REQUIRED. SEE KITCHEN LAYOUT FOR DETAIL
6. ROUTE CW TO WH-2. ROUTE 1 1/2" CW, 1" HW FROM WH-2 TO LAUNDRY. CONNECT TO EACH WASHER PER MANUFACTURER'S REC. PROVIDE ALL REQUIRED PIPING SPECIALTIES
7. 1/2" CW/HW TO EYE WASH WITH MIXING VALVE FOR TEMPERED WATER. PROVIDE ACCESSORIES AS REQUIRED
8. PROVIDE WH-2 FOR EACH WASHING MACHINE LOCATE WH PER OWNER'S DIRECTION
9. COORDINATE HOSE BIB LOCATION WITH OWNER TYP
10. PROVIDE 1" CW FOR POOL VENDOR. PROVIDE BFP AS REQUIRED
11. ROUTE $\frac{3}{4}$" CW, $\frac{3}{4}$" HW, & $\frac{1}{2}$" HWR BELOW GRADE TO TWO NFHB-1 ON SIDE OF DUMPSTER ENCLOSURE. SEE CIVIL SITE PLAN FOR LOCATION OF ENCLOSURE. PIPING TO BE INSULATION
12. EXTEND 2 $\frac{1}{2}$" CW SERVICE TO METER ON SITE SEE CIVIL FOR DETAIL
13. EXTEND 2" CW, HW , 1 $\frac{1}{4}$" HWR TO BOTH WH-1 PER MANUFACTURER REC. SET WH IN PAN PER CODE. PROVIDE CP-1 FOR HW SYSTEM AND PIPE PER MANUFACTURER REC: ALTERNATE- PROVIDE ALTERNATE PRICE FOR TANKLESS RACKED SYSTEM FOR OWNER'S APPROVAL.
14. $\frac{3}{4}$" CW UP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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/14

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DRAWING NAME
FLOOR PLAN -PLUMBING

DRAWN BY:
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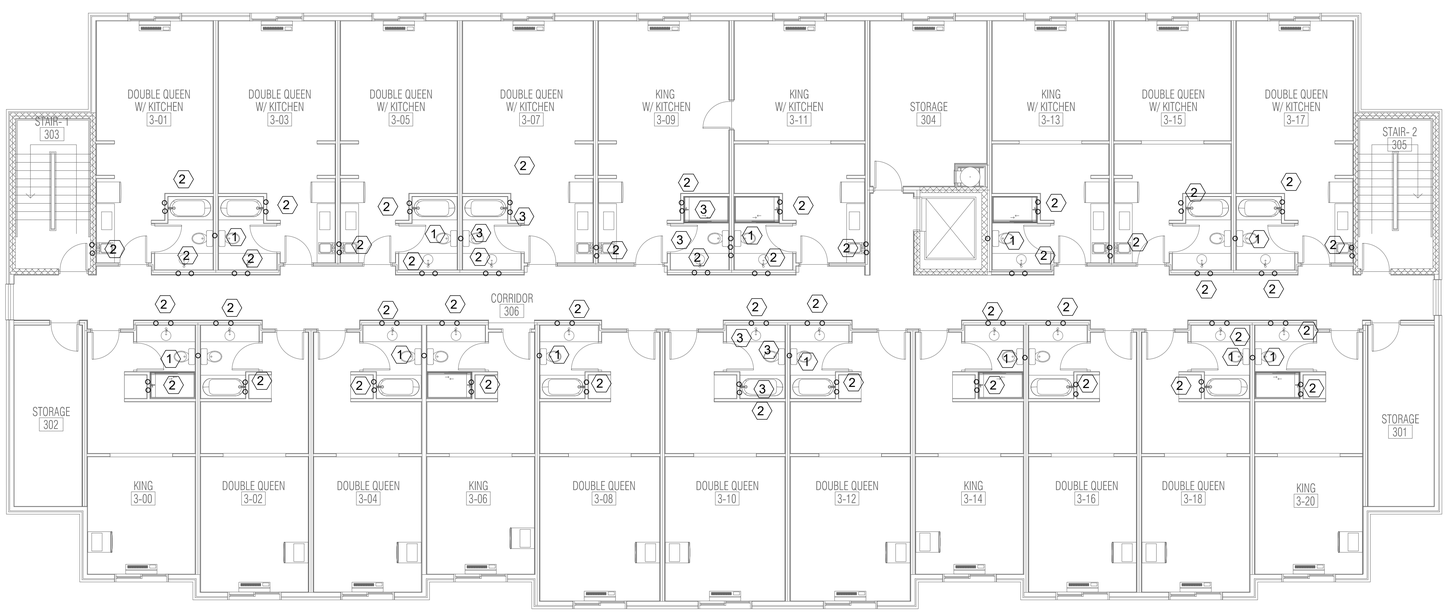
DRAWING NUMBER:
P103

1 Second Floor Plan - Plumbing Water
SCALE 1/8" = 1'-0"

1. 1" CW DN, ¾" CW UP
2. ¾" CW/HW DN ¾" CW/HW UP
3. OFFSET PIPING ABOVE CEILING AS REQURIED
4. ¾" CW/HW DN
5. ¾" CW DN




2 Third Floor Plan - Plumbing Water
SCALE 1/8" = 1'-0"

1. ¾" CW DN
2. ¾" CW/HW DN
3. OFFSET PIPING ABOVE CEILING AS REQURIED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AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 18426
THOMAS NEEDHAM
1/31/14

CONSULTANTS NAME:

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DRAWING NAME
FLOOR PLAN
-PLUMBING WATER

DRAWN BY:
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P104

# LUMINAIRE SCHEDULE

| CALLOUT | SYMBOL | LAMP | DESCRIPTION | BALLAST | MOUNTING | MODEL | INPUT WATTS | VOLTS | NOTE 1 |
|---|---|---|---|---|---|---|---|---|---|
| A | | (1) | 2x4 LED PANEL LIGHT | ELECTRONIC | CEILING | LITHONIA CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT NLIGHT | 32 | 120V 1P 2W | |
| B | | (1) | 2x2 LED PANEL LIGHT | ELECTRONIC | CEILING | LITHONIA CPX 2X2 AL07 80CRI SWW7 SWL MVOLT NLIGHT | 32 | 120V 1P 2W | |
| CH | | (1) | CHANDELIER | ELECTRONIC | WALL | OWNER FURNISHED | 50 | 120V 1P 2W | CONTRATOR INSTALLED |
| D | | LED | RECESSED LED DOWNLIGHT 6 | ELECTRONIC | RECESSED | GOTHAM EVO-40/20-6AR-MD-LD-MVOLT-EZ1-TRW | 24 | 120V 1P 2W | |
| DE | | 14W LED | RECESSED LED DOWNLIGHT 6 | ELECTRONIC | RECESSED | GOTHAM EVO-40/20-6AR-MD-LD-MVOLT-EZ1-TRW W/BATTER | 14 | 120V 1P 2W | BATTERY BACKUP |
| EG | | 11W LED | LED EXTERIOR EM SCONCE, PHOTCELL | ELECTRONIC | WALL,CENTERED ABOVE DOOR | ISOLITE #ELED-EM-WH-CD | 11 | 120V 1P 2W | COORDINATE FINISH WITH ARCHITECT |
| EL | | (1) | 2' ELEVATOR PIT FIXTURE | ELECTRONIC | WALL | LITHONIA DMW2-L24-3000LM-AFL-MD-VOLT GZ1-40K | 27 | 120V 1P 2W | WET LOCATION |
| EM | | (2) 2W | BATTERY EMERGENCY WALL LIGHT | ELECTRONIC | WALL | DUAL LITE EV-2-02L | 4 | 120V 1P 2W | |
| EX | | (1) | DUAL EXIT COMBO | ELECTRONIC | WALL | LITHONIA ELA T SD QL0309 M12 | 5 | 120V 1P 2W | |
| FS1 | | (1) | 1X4 LED STRIP FIXTURE | ELECTRONIC | CEILING | LITHONIA 2L1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH | 64 | 120V 1P 2W | |
| FS2 | | (1) | 1X4 STRIP WALL MOUNTED | ELECTRONIC | WALL | LITHONIA WL4 40L EZ1 LP840 EL7L | 64 | 120V 1P 2W | |
| I | | (1) 80W | 48" CEILING FAN AND LIGHT KIT | ELECTRONIC | PENDANT | HAMPTON BAY TYPE A6524 | 500 | 120V 1P 2W | ONWER FURNISHED CONTRACTOR INSTALLED |
| K | | 20W LED | GUEST ROOM SCONCE | ELECTRONIC | WALL | WALL SCONCE OWNER FURNISHED | 20 | 120V 1P 2W | CONTRACTOR INSTALLED |
| LA1 | | (1) | 4" ADJUSTABLE DOWNLIGHT | ELECTRONIC | CEILING | ALPHABET NU4-RA-SW-20LM-40K-80-HE60 | 16 | 120V 1P 2W | |
| LD1 | | (1) | 4" RECESSED DOWNLIGHT | ELECTRONIC | CEILING | JUNO C1LED-G4-09LM-40K-90CRI-XX-13WH | 12 | 120V 1P 2W | |
| LD2 | | (1) | 4" RECESSED DOWNLIGHT | ELECTRONIC | CEILING | ALPHAPET NU4-RD-SW-30LM-40K=80-HE60 | 24 | 120V 1P 2W | |
| LD3 | | (1) | 12" SQUARE DOWN LIGHT | ELECTRONIC | CEILING | LITHONIA SCNY LED AL01 40K FPCL MVOLT DWHXD | 48 | 120V 1P 2W | |
| P | | (1) | ARCHITECTURAL WALL PACK UP/DOWN LIGHT | ELECTRONIC | WALL | WAC LIGHTING DS-WD08-F930B | 96 | 120V 1P 2W | |
| R | | (1) | WALL SCONCE | ELECTRONIC | WALL | OWNER FURNISHED WALL SCONCE | 24 | 120V 1P 2W | CONTRACTOR INSTALLED |
| SO1 | | (1) 150W , | RSX LED Area Luminaire Size 1 P2 Lumen Package 4000K CCT Type AFR Distribution with HS shield | ELECTRONIC | POLE | Lithonia Lighting, RSX1 LED P2 40K AFR HS PROVID 25' ROUND STEEL POLE,FINISH TO MATCH FIXTURE See IHG Standards | 72.95 | 208V 2P 2W | , |
| SO2 | | (1) 150W , | RSX LED Area Luminaire Size 1 P2 Lumen Package 4000K CCT Type AFR Distribution with HS shield | ELECTRONIC | POLE | Lithonia Lighting, RSX1 LED P2 40K AFR HS DUAL HEAD PROVID 25' ROUND STEEL POLE,FINISH TO MATCH FIXTURE See IHG Standards | 150 | 208V 2P 2W | , |
| TI | | (1) | 6' TRACK LIGHT | ELECTRONIC | CEILING | PRESCOLITE AKTSLED-4-35K-8-MD25-PS-BL | 28 | 120V 1P 2W | |
| V | | (1) | VANITY FIXTURE | ELECTRONIC | WALL | OWNER FURNISHED | 64 | 120V 1P 2W | CONTRACTOR INSTALLED |
| W1 | | (1) 78W LED | WPX1 LED wallpack 1500lm 4000K color temperature 120-277 Volts | ELECTRONIC | WALL, MTD PER ARCH | Lithonia Lighting, WPX1 LED P1 40K Mvolt GLASS BLOCK | 11.47 | 120V 1P 2W | COORDINATE HEIGHT WITH ARCHITCET |

# SWITCH SCHEDULE

| CALLOUT | SYMBOL | NOTE 1 | NOTE 2 |
|---|---|---|---|
| OCC SENSOR CEILING MOUNT LINE VOLTAGE | | CEILING MOUNT DUAL TECHNOLOGYLINE VOLTAGE OCCUPANCY SENSOR | ACUITY CONTROLS #CM-PDT-10 |
| SWITCH | $ | MTD 48" AFF. UOI | |
| SWITCH WITH OCC SENSOR | $ OC | WALL MOUNTED DUAL TECHNOLOGY, OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWICTH. | ACUITY CONTROLS #WSX-PDT-WH |
| THREEWAY SWITCH | $ 3 | WALL MOUNTED 3 WAY SWITCH MTD 48" AFF. UOI. | |

# Communications SCHEDULE

| CALLOUT | SYMBOL | NOTE 1 | NOTE 2 |
|---|---|---|---|
| Doorbell Chime | DB | DOORBELL CHIME W/ XFMR, MTD 8" BELOW CEILING | |
| Push Button | PB | PUSH BUTTON, MTD 46" AFF | PROVIDE SINGLE GANG BOX W/ COVER AT 18" AFF |

# Security SCHEDULE

| CALLOUT | SYMBOL | NOTE 1 |
|---|---|---|
| CAMERA | SEC | PROVIDE 1-1/2" CONDUIT WITH PULL STRING FROM CAMERA TO COMMUNICATION ROOM COORDINATE WITH OWNER FOR EXACT LOCATION |
| Card Reader | CR | INSTALL 42" AFF |

# Fire Alarm Schedule

| CALLOUT | SYMBOL | NOTE 1 |
|---|---|---|
| Audio / Visual Alarm | S | FIRE ALARM COMBINATION AUDIBLE & VISUAL INDICATOR ALARM. WALL MTD |
| Duct Smoke Detector | DSD | FIRE ALARM SMOKE DETECTOR IN DUCT |
| Heat Detector | HD | FIRE ALARM HEAT DETECTOR |
| Manual Alarm Station | F | FIRE ALARM MANUAL PULL STATION. MTD 48" AFF TO BOTTOM UOI |
| Post Indicator Valve | PIV | |
| Smoke Detector - Ceiling | | SMOKE DETECTORS SHALL BE ADDRESSABLE |
| Smoke Detector - Wall | S | FIRE ALARM SMOKE DETECTOR MTD ON WALL. TO BE ADDRESSABLE IN GUEST ROOMS |
| SMOKE DETECTOR WITH ALARM BASE | S | WALL MOUNTED SMOKE DETECTOR/ CO WITH SOUNDER BASE |
| TAMPER SWITCH | TS | FIRE ALARM SPRINKLER SYSTEM TAMPER SWITCH |
| Water Flow Switch | FS | FIRE ALARM SPRINKLER SYSTEM FLOW SWITCH |

# ELECTRICAL SYMBOLS

- NONFUSED DISCONNECT SWITCH - SIZE AS INDICATED
- FUSED DISCONNECT SWITCH - SIZE AS INDICATED
- COMBINATION STARTER/DISCONNECT - SIZE AS INDICATED
- $ TOGGLE SWITCH
- FEEDER/BRANCH RUN OVERHEAD - CONCEALED IN OR ABOVE CEILING, IN WALL, OR EXPOSED ON STRUCTURE
- EMERGENCY, NIGHT LIGHT, OR FEEDER/BRANCH CONCEALED BELOW FLOOR, IN WALL, OR BELOW GRADE
- P-16 HOME RUN TO CIRCUIT PANEL, NEUTRAL/HOT/GROUND. #12 COPPER, UOI

# ABBREVIATIONS

| | |
|---|---|
| a,b,c, etc. | DENOTES SWITCHING SCHEME |
| AC | MOUNT ABOVE COUNTER |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| BFG | BELOW FINISHED GRADE |
| EC | ELECTRICAL CONTRACTOR |
| EP | EXPLOSION PROOF |
| EX | EXISTING |
| FAA | FIRE ALARM ANNUNCIATOR PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| GC | GENERAL CONTRACTOR |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| MC | MECHANICAL CONTRACTOR |
| MTD | MOUNTED |
| OFCI | OWNER FURNISHED, CONTRACTOR INSTALLED |
| SPD | SURGE PROTECTIVE DEVICE |
| STB | SHUNT TRIP BREAKER |
| UOI | UNLESS OTHERWISE INDICATED |
| WP | WEATHERPROOF |


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AT

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SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3867 ARKANSAS ENGINEERS

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

SCHEDULES - ELECTRICAL

DRAWN BY:
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DRAWING NUMBER:

E0.01

# RECEPTACLE SCHEDULE

| CALLOUT | SYMBOL | NEMA | VOLTS | NOTE 1 | NOTE 2 |
|---|---|---|---|---|---|
| 220V Outlet | | | 208/120V 2P 3W | | |
| Data | | | 120V 1P 2W | 3/4" CONDUIT STUB UP TO ABOVE CEILING FOR CABLE | PROVIDE CABLE JACK W/ WHITE COVER PLATE AN RUN CAT 5E CABLE TO TELEPHONE/VIDEO PANEL. |
| Duplex Outlet | | 5-15P | 120V 1P 2W | DUPLEX RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI | |
| Duplex Outlet-EWC | EWC | N5-20R | 120V 1P 2W | DUPLEX RECEPTACLE FOR DRINKING FOUNTAIN | COORDINATE MOUNTING HEIGHT WITH PLUMBING CONTRACTOR |
| Duplex Outlet-GFCI | | N5-20R | 120V 1P 2W | GFCI PROTECTED DUPLEX RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI | |
| Duplex Outlet-GFCI Above Counter | | N5-20R | 120V 1P 2W | GFCI PROTECTED DUPLEX RECEPTACLE, MTD AT 4" ABOVE BACKSPLASH TO BOTTOM, UOI | COORDINATE WITH CASEWORK CONTRACTOR |
| Duplex Outlet-GFCI/WP | | N5-20R | 120V 1P 2W | GFCI PROTECTED DUPLEX RECEPTACLE, WITH WEATHER-PROOF IN-USE COVER, MTD AT 18" AFF TO BOTTOM, UOI | PROIVDE LOCKABLE COVER |
| Duplex Outlet - TV | TV | 5-15P | 120V 1P 2W | DUPLEX RECEPTACLE FOR TV, MTD AT 72" AFF TO BOTTOM. UOI | |
| Duplex Outlet USB | USB | 5-15P | 120V 1P 2W | DUPLEX RECEPTACLE W/USB Port Floor outlet | |
| Duplex Outlet-Vending | REF | N5-20R | 120V 1P 2W | DUPLEX RECEPTACLE FOR VENDING/REFRIGERATOR, MTD AT 48" AFF TO BOTTOM, UOI | DEDICATED CIRCUIT WITH GFCI BREAKER |
| Floor Box Duplex | FB | N5-20R | 120V 1P 2W | SINGLE GANG FLOOR BOX WITH 2 SIMPLEX RECEPTACLE | STEEL CITY #600 SERIES, ROUND,CAST IRONBOX \ METALLIC COVER #P60 SERIES, OR EQUAL |
| J-Box | | | 120V 1P 2W | JUNCTION BOX FOR SIGN. EXACT LOCATION AS DIRECTED BY OWNER | |
| J-Box (120V) | | | 120V 1P 2W | JUNCTION BOX, USE AS INDICATED | |
| Quad Outlet | | N5-20R | 120V 1P 2W | QUAD RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI | |

# GENERAL SCHEDULE

| CALLOUT | SYMBOL | VOLTS | AMPS | KVA | NOTE 1 | CUSTOM PANEL DESCRIPTION | WIRE CALLOUT |
|---|---|---|---|---|---|---|---|
| AHU-1 | | 208/120V 2P 3W | 45 | 9.36 | | AHU-1 | 1"C,2#4,#4N,#10G |
| AHU-2 | | 208/120V 2P 3W | 45 | 9.36 | | AHU-2 | 1"C,2#4,#4N,#10G |
| AHU2-1 | | 208V 2P 2W | 30 | 6.24 | | AHU2-1 | 1/2"C,2#8,#10G |
| AHU-3 | | 208/120V 2P 3W | 45 | 9.36 | | AHU-3 | 1"C,2#4,#4N,#10G |
| AHU3-1 | | 208V 2P 2W | 30 | 6.24 | | AHU3-1 | 1/2"C,2#8,#10G |
| D | | 120V 1P 2W | 10 | 1.2 | | DRYER | 1/2"C,1#10,#10N,#10G |
| D | | 120V 1P 2W | 10 | 1.2 | | DRYER | 1/2"C,1#10,#10N,#10G |
| ELEV | | 208V 3P 3W | 62.31 | 22.45 | | ELEV | 3"C,3#600kcmil,#3/0G |
| HP-1 | | 208V 3P 4W | 18 | 6.48 | | HP-1 | 1/2"C,3#10,#10N,#10G |
| HP-2 | | 208V 3P 4W | 18 | 6.48 | | HP-2 | 1/2"C,3#10,#10N,#10G |
| HP2-1 | | 208V 2P 2W | 13 | 2.7 | | HP2-1 | 1/2"C,2#10,#10G |
| HP-3 | | 208V 3P 4W | 18 | 6.48 | | HP-3 | 1/2"C,3#10,#10N,#10G |
| HP3-1 | | 208V 2P 2W | 13 | 2.7 | | HP3-1 | 1/2"C,2#10,#10G |
| IU-1 | | 208V 2P 2W | 2 | 0.42 | | IU-1 | |
| IU-2 | | 208V 2P 2W | 2 | 0.42 | | IU-2 | |
| OU-1 | | 208V 2P 2W | 10 | 2.08 | | OU-1 | 1/2"C,2#12,#12G |
| OU-2 | | 208V 2P 2W | 10 | 2.08 | | OU-2 | 1/2"C,2#12,#12G |
| PTAC | | 208V 2P 2W | 15 | 3.12 | | PTAC | 1/2"C,2#10,#10G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#12,#12G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#10,#10G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#10,#10G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#10,#10G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#12,#12G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#12,#12G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#12,#12G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#12,#12G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#10,#10G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#12,#12G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#12,#12G |
| UH-1 | | 208V 2P 2W | 14.42 | 3 | | UH-1 | 1/2"C,2#12,#12G |
| W | | 208/120V 2P 3W | 36.06 | 7.5 | | WASHER | 3/4"C,2#8,#8N,#10G |
| W | | 208/120V 2P 3W | 36.06 | 7.5 | | WASHER | 3/4"C,2#8,#8N,#10G |

# MSB

ROOM
MOUNTING FLUSH
FED FROM UTILITY
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 1600
NEUTRAL 100%

AIC 22,000
MAIN BKR 1600
LUGS STANDARD

| CKT # | BREAKER TRIP/POLES | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | FEEDER RACEWAY AND CONDUCTORS |
|---|---|---|---|---|---|---|
| 1 | 80/3 | ELEV | 7.48 | 7.48 | 7.48 | [redacted] |
| 2 | 400/3 | PANEL M1 | 47 | 42.5 | 46 | |
| 3 | 400/3 | PANEL M1A | 44.6 | 53.5 | 44.1 | |
| 4 | 400/3 | PANEL M2 | 40.3 | 37.2 | 37.4 | |
| 5 | 400/3 | PANEL M3 | 39.1 | 37.2 | 31.9 | |
| 6 | 400/3 | PANEL DP1 | 58.5 | 58.5 | 58.5 | |
| 7 | 20/3 | SPACE | 0 | 0 | 0 | |
| 8 | 20/3 | SPACE | 0 | 0 | 0 | |
| | | | | | | |
| | | TOTAL CONNECTED KVA BY PHASE | 237 | 236 | 225 | |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LIGHTING | 32.2 | 40.3 | (125%) |
| APPLIANCE | 47.6 | 35.7 | (75%) |
| LARGEST MOTOR | 22.4 | 5.61 | (25%) |
| MOTORS | 40.5 | 40.5 | (100%) |
| RECEPTACLES | 132 | 70.8 | (50%>10) |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| KITCHEN EQUIPMENT | 106 | 68.6 | (65%) |
| CONTINUOUS | 0.75 | 0.938 | (125%) |
| NONCONTINUOUS | 6.7 | 6.7 | (100%) |
| HEATING | 249 | 249 | (100%) |
| COOLING | 217 | 0 | (0%) |
| DIVERSE | 19 | 5.51 | (29%) |
| TOTAL LOAD | | 547 | |
| BALANCED 3-PHASE LOAD | | 1,520 A | |

# DP1

ROOM
MOUNTING FLUSH
FED FROM MSB
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 100/2 | PANEL R15 | 4.44 | | | 2 | 100/2 | PANEL R9 | 4.44 | | |
| 3 | \| | | | 7.26 | | 4 | \| | | | 7.26 | |
| 5 | 100/2 | PANEL R16 | | | 4.44 | 6 | 100/2 | PANEL R10 | | | 4.41 |
| 7 | \| | | 7.26 | | | 8 | \| | | 7.26 | | |
| 9 | 100/2 | PANEL R17 | | 4.44 | | 10 | 100/2 | PANEL R11 | | 4.41 | |
| 11 | \| | | | | 7.26 | 12 | \| | | | | 7.26 |
| 13 | 100/2 | PANEL R18 | 4.44 | | | 14 | 100/2 | PANEL R12 | 4.41 | | |
| 15 | \| | | | 7.26 | | 16 | \| | | | 7.26 | |
| 17 | 100/2 | PANEL R19 | | | 4.41 | 18 | 100/2 | PANEL R13 | | | 4.44 |
| 19 | \| | | 7.26 | | | 20 | \| | | 7.26 | | |
| 21 | 100/2 | PANEL R20 | | 4.41 | | 22 | 100/2 | PANEL R14 | | 4.44 | |
| 23 | \| | | | | 7.26 | 24 | \| | | | | 7.26 |
| 25 | 100/2 | PANEL R21 | 4.41 | | | 26 | 20/1 | SPACE | 0 | | |
| 27 | \| | | | 7.26 | | 28 | 20/1 | SPACE | | 0 | |
| 29 | 100/2 | PANEL R22 | | | 4.44 | 30 | 20/1 | SPACE | | | 0 |
| 31 | \| | | 7.26 | | | 32 | 20/1 | SPACE | 0 | | |
| 33 | 100/2 | PANEL R23 | | 4.44 | | 34 | 20/1 | SPACE | | 0 | |
| 35 | \| | | | | 7.26 | 36 | 20/1 | SPACE | | | 0 |
| 37 | 20/1 | SPACE | 0 | | | 38 | 20/1 | SPACE | 0 | | |
| 39 | 20/1 | SPACE | | 0 | | 40 | 20/1 | SPACE | | 0 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | 20/1 | SPACE | | | 0 |
| | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 58.5 | 58.5 | 58.5 |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LIGHTING | 3.91 | 4.89 | (125%) |
| LARGEST MOTOR | 3.12 | 0.78 | (25%) |
| RECEPTACLES | 52.6 | 31.3 | (50%>10) |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| KITCHEN EQUIPMENT | 72 | 46.8 | (65%) |
| HEATING | 46.8 | 46.8 | (100%) |
| COOLING | 46.8 | 0 | (0%) |
| TOTAL LOAD | | 131 | |
| BALANCED 3-PHASE LOAD | | 362 A | |


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Memphis, Tennessee 38139
E-Mail: designgroup50@yahoo.com


OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3867 ARKANSAS ENGINEER

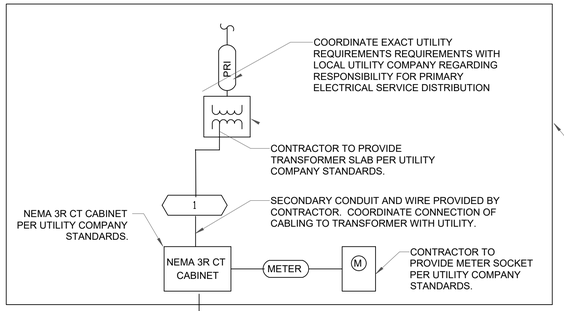
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

SCHEDULES - ELECTRICAL

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

E0.02

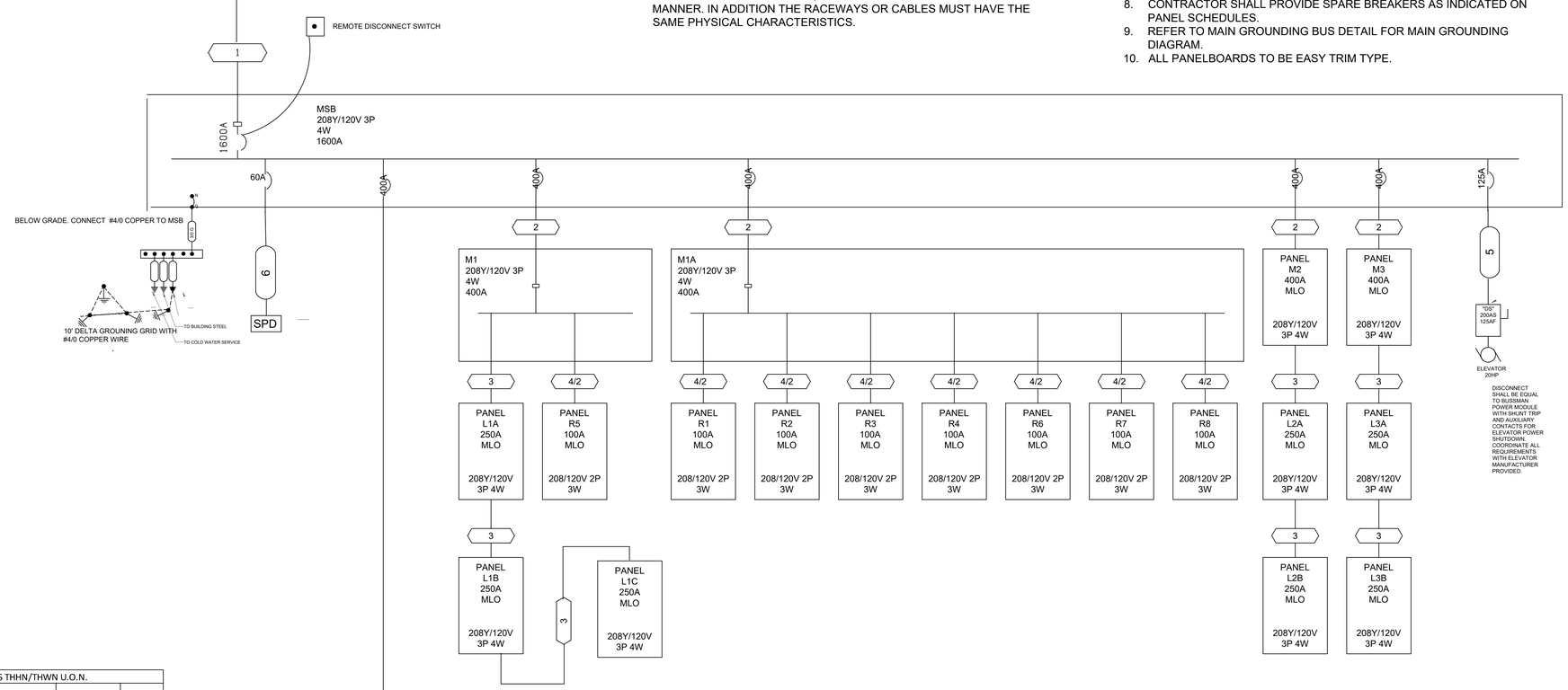


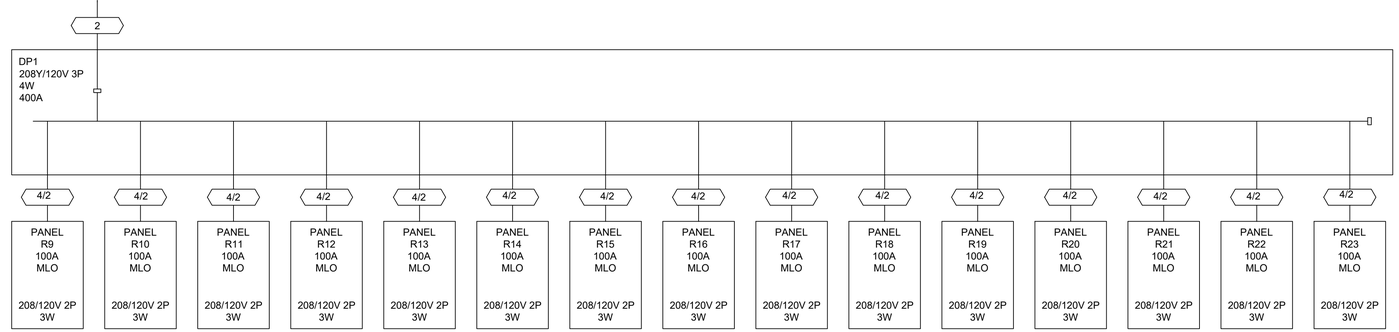

SERVICE ENTRY NOTES:

1. UNDERGROUND SERVICE LATERAL CONDUCTORS MUST BE PROTECTED FROM DAMAGE IN ACCORDANCE WITH ARTICLE 300.5. UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18" OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON PLACED 12" ABOVE THE UNDERGROUND INSTALLATION.
2. UNLESS LOCAL CODE DICTATES OTHERWISE, PVC SERVICE ENTRANCE LATERAL RACEWAY MUST BE BURIED AT LEAST 18" TO TOP OF THE RACEWAY UNLESS BELOW A COVERING OF AT LEAST 2" OF CONCRETE. RACEWAY COVERED UNDER 2" OF CONCRETE MUST BE BURIED AT LEAST 12" TO TOP OF RACEWAY.
3. BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CORROSIVE MATERIAL OR ANYTHING ELSE THAT MAY CAUSE DAMAGE TO RACEWAYS OR CABLES IS NOT PERMITTED.
4. CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT ONE OR BOTH ENDS. SPARE OR UNUSED RACEWAYS SHALL ALSO BE SEALED. SEALANTS SHALL BE IDENTIFIED FOR USE WITH THE CABLE, INSULATION, SHIELD OR OTHER COMPONENTS.
5. PARALLEL SERVICE CONDUCTORS MUST BE THE SAME LENGTH, HAVE THE SAME CONDUCTOR MATERIAL, BE THE SAME SIZE, HAVE THE SAME INSULATION TYPE, AND BE TERMINATED IN THE SAME MANNER. IN ADDITION THE RACEWAYS OR CABLES MUST HAVE THE SAME PHYSICAL CHARACTERISTICS.

ONE LINE NOTES

1. IN ACCORDANCE WITH NEC ARTICLE 110.16. ELECTRICAL EQUIPMENT LIKELY TO REQUIRE EXAMINATION WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN PERSONNEL OF POTENTIAL ARC FLASH HAZARDS. THIS SHALL BE FURNISHED FROM THE FACTORY.
2. IN ACCORDANCE WITH NEC ARTICLE 110.24. THE SERVICE EQUIPMENT SHALL BE FIELD MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT ALONG WITH THE DATE THE CALCULATION WAS PERFORMED.
3. ALL WORKING SPACE REQUIREMENTS AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC SHALL BE STRICTLY ADHERED TO BY ALL TRADES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO USE THE INFORMATION PROVIDED IN THE SHORT CIRCUIT AND COORDINATION STUDY TO VERIFY THAT SETTINGS ON ADJUSTABLE TRIP OVERCURRENT DEVICES MATCH THE RECOMMENDATIONS OF THE SHORT CIRCUIT AND COORDINATION STUDY.
5. IN ACCORDANCE WITH NEC 230.8 RACEWAYS ENTERING A BUILDING FROM AN UNDERGROUND DISTRIBUTION SYSTEM SHALL BE SEALED IN ACCORDANCE WITH 300.5.G.
6. ALL PANELS SHALL HAVE COPPER BUSSING.
7. ALL PANELBOARDS SHALL BE RATED FOR BASED ON SEISMIC CATEGORY. SEE STRUCTURAL PLANS FOR CATEGORY DETAILS.
8. CONTRACTOR SHALL PROVIDE SPARE BREAKERS AS INDICATED ON PANEL SCHEDULES.
9. REFER TO MAIN GROUNDING BUS DETAIL FOR MAIN GROUNDING DIAGRAM.
10. ALL PANELBOARDS TO BE EASY TRIM TYPE.




| FEEDER SCHEDULE- NOTE ALL CONDUCTORS THHN/THWN U.O.N. | | | | | | | |
|---|---|---|---|---|---|---|---|
| MARK | NOMINAL AMPACITY | MIN CONDUIT SIZE (IN) | # OF PARALLELL RUNS | MIN CABLE SIZE AWG | MATERIAL INCLUDES ALL CONDUCTORS | # OF CONDUCTORS | EQUIPM GROUND COND (AWG) |
| 1 | 1600 | 3" | 6 | 400 kcmil | ALUMINUM | 4 | |
| 2 | 400 | 3" | 2 | 250 kcmil | ALUMINUM | 4 | #2 |
| 3 | 250 | 3-1/2" | 1 | 350 kcmil | ALUMINUM | 4 | #1 |
| 4/2 | 100 | 1-1/4" | 1 | #3 AWG | COPPER | 3 | #8 |
| 5 | 125 | 1-1/2" | 1 | #1 AWG | COPPER | 4 | #8 |
| 6 | 60 | 1" | 1 | #6 AWG | COPPER | 4 | #8 |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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

ONE LINE - ELECTRICAL

DRAWN BY:

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

E0.03

# M1

ROOM
MOUNTING FLUSH
FED FROM MSB
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/2 | UH-1 | 1.5 | | | 2 | 20/2 | PTAC | 1.56 | | |
| 3 | \| | | | 1.5 | | 4 | \| | | | 1.56 | |
| 5 | 100/2 | PANEL R5 | | | 4.41 | 6 | 50/2 | VEHICLE CHARGING STATION | | | 4.75 |
| 7 | \| | | 7.26 | | | 8 | \| | | 4.75 | | |
| 9 | 20/2 | UH-1 | | 1.5 | | 10 | 50/2 | VEHICLE CHARGING STATION | | 4.75 | |
| 11 | \| | | | | 1.5 | 12 | \| | | | | 4.75 |
| 13 | 20/2 | PTAC | 1.56 | | | 14 | 40/2 | WASHER | 3.75 | | |
| 15 | \| | | | 1.56 | | 16 | \| | | | 3.75 | |
| 17 | 20/2 | PTAC | | | 1.56 | 18 | 40/2 | WASHER | | | 3.75 |
| 19 | \| | | 1.56 | | | 20 | \| | | 3.75 | | |
| 21 | 20/2 | PTAC | | 1.56 | | 22 | 20/1 | DRYER | | 1.5 | |
| 23 | \| | | | | 1.56 | 24 | 20/1 | DRYER | | | 1.5 |
| 25 | 20/2 | PTAC | 1.56 | | | 26 | 20/1 | SPACE | 0 | | |
| 27 | \| | | | 1.56 | | 28 | 20/1 | SPACE | | 0 | |
| 29 | 20/1 | EF-3 | | | 0.1 | 30 | 20/1 | SPACE | | | 0 |
| 31 | 20/1 | EF-2 | 0.1 | | | 32 | 20/1 | SPACE | 0 | | |
| 33 | 60/2 | AHU-2 | | 4.68 | | 34 | 20/1 | SPACE | | 0 | |
| 35 | \| | | | | 4.68 | 36 | 20/1 | SPACE | | | 0 |
| 37 | 20/2 | OU-2 | 1.04 | | | 38 | 250/3 | PANEL L1A | 18.6 | | |
| 39 | \| | | | 1.04 | | 40 | \| | | | 17.6 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | \| | | | | 17.5 |
| | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 47 | 42.5 | 46 |

| | CONN KVA | CALC KVA | | | CONN KVA | CALC KVA | |
|---|---|---|---|---|---|---|---|
| LIGHTING | 12 | 15 | (125%) | KITCHEN EQUIPMENT | 4.8 | 3.12 | (65%) |
| APPLIANCE | 9.8 | 7.35 | (75%) | CONTINUOUS | 0.75 | 0.938 | (125%) |
| LARGEST MOTOR | 9.36 | 2.34 | (25%) | HEATING | 34.1 | 34.1 | (100%) |
| MOTORS | 0.2 | 0.2 | (100%) | COOLING | 30.2 | 0 | (0%) |
| RECEPTACLES | 25.8 | 17.9 | (50%>10) | DIVERSE | 19 | 5.51 | (29%) |
| | | | | TOTAL LOAD | | 97.9 | |
| | | | | BALANCED 3-PHASE LOAD | | 272 A | |

# L1A

ROOM
MOUNTING FLUSH
FED FROM M1
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 250
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS FEEDTHRU

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEPTACLE | 0.18 | | | 2 | 20/1 | RECEPTACLE | 0.36 | | |
| 3 | 20/1 | RECEPTACLE | | 0.36 | | 4 | 20/1 | RECEPTACLE | | 0.54 | |
| 5 | 20/1 | RECEPTACLE | | | 0.36 | 6 | 20/1 | RECEPTACLE | | | 0.54 |
| 7 | 20/1 | RECEPTACLE | 0.36 | | | 8 | 20/1 | RECEPTACLE | 0.36 | | |
| 9 | 20/1 | WATER COOLER | | 0.75 | | 10 | 20/1 | RECEPTACLE | | 0.36 | |
| 11 | 20/1 | GFCI RECEPTACLE, RECEPTACLE | | | 0.36 | 12 | 20/1 | GFCI RECEPTACLE | | | 0.36 |
| 13 | 20/1 | ICE | 0.8 | | | 14 | 20/1 | GFCI RECEPTACLE | 0.18 | | |
| 15 | 20/1 | RECEPTACLE | | 0.54 | | 16 | 20/1 | GFCI RECEPTACLE | | 0.18 | |
| 17 | 20/1 | RECEPTACLE | | | 0.18 | 18 | 20/1 | GFCI RECEPTACLE | | | 0.18 |
| 19 | 20/1 | RECEPTACLE | 0.36 | | | 20 | 20/1 | GFCI RECEPTACLE | 0.18 | | |
| 21 | 20/1 | RECEPTACLE | | 0.18 | | 22 | 20/1 | RECEPTACLE | | 0.54 | |
| 23 | 20/1 | RECEPTACLE | | | 0.18 | 24 | 20/1 | REFRIGERATOR | | | 1.2 |
| 25 | 20/1 | RECEPTACLE | 0.72 | | | 26 | 20/1 | FREEZER | 0.8 | | |
| 27 | 20/1 | FIRE PLACE, RECEPTACLE | | 0.98 | | 28 | 20/1 | RECEPTACLE | | 0.72 | |
| 29 | 20/1 | RECEPTACLE | | | 0.54 | 30 | 20/1 | RECEPTACLE | | | 0.54 |
| 31 | 20/1 | RECEPTACLE | 0.18 | | | 32 | 20/1 | RECEPTACLE | 0.36 | | |
| 33 | 20/1 | RECEPTACLE | | 0.54 | | 34 | 20/1 | RECEPTACLE | | 0.72 | |
| 35 | 20/1 | RECEPTACLE | | | 0.72 | 36 | 20/1 | RECEPTACLE | | | 0.75 |
| 37 | 20/1 | SIGN | 0.8 | | | 38 | 20/1 | RECEPTACLE | 0.75 | | |
| 39 | 20/1 | RECEPTACLE | | 0.36 | | 40 | 20/1 | SPACE | | 0 | |
| 41 | 20/1 | RECEPTACLE | | | 0.72 | 42 | 20/1 | SPACE | | | 0 |
| | | LUG LOAD: PANEL L1B | 12.1 | 10.7 | 10.9 | | | TOTAL CONNECTED KVA BY PHASE | 18.5 | 17.5 | 17.5 |

| | CONN KVA | CALC KVA | | | CONN KVA | CALC KVA | |
|---|---|---|---|---|---|---|---|
| LIGHTING | 11.6 | 14.5 | (125%) | RECEPTACLES | 22.3 | 16.2 | (50%>10) |
| APPLIANCE | 9.8 | 7.35 | (75%) | CONTINUOUS | 0.75 | 0.938 | (125%) |
| | | | | TOTAL LOAD | | 44.1 | |
| | | | | BALANCED 3-PHASE LOAD | | 122 A | |

# L1B

ROOM
MOUNTING FLUSH
FED FROM L1A
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 250
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS FEEDTHRU

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | MICROWAVE & REF | 1.5 | | | 2 | 20/1 | SPACE | 0 | | |
| 3 | 20/1 | BATHROOM | | 1.2 | | 4 | 20/1 | SPACE | | 0 | |
| 5 | 20/1 | ROOM POWER | | | 1.3 | 6 | 20/1 | SPACE | | | 0 |
| 7 | 20/1 | MICROWAVE & REF | 1.5 | | | 8 | 20/1 | SPACE | 0 | | |
| 9 | 20/1 | BATHROOM | | 1.2 | | 10 | 20/1 | SPACE | | 0 | |
| 11 | 20/1 | ROOM POWER | | | 1.3 | 12 | 20/1 | SPACE | | | 0 |
| 13 | 20/1 | MICROWAVE & REF | 1.5 | | | 14 | 20/1 | SPACE | 0 | | |
| 15 | 20/1 | BATHROOM | | 1.2 | | 16 | 20/1 | SPACE | | 0 | |
| 17 | 20/1 | ROOM POWER | | | 1.3 | 18 | 20/1 | SPACE | | | 0 |
| 19 | 20/1 | MICROWAVE & REF | 1.5 | | | 20 | 20/1 | SPACE | 0 | | |
| 21 | 20/1 | BATHROOM | | 1.2 | | 22 | 20/1 | SPACE | | 0 | |
| 23 | 20/1 | ROOM POWER | | | 1.3 | 24 | 20/1 | SPACE | | | 0 |
| 25 | 20/1 | MICROWAVE & REF | 1.5 | | | 26 | 20/1 | SPACE | 0 | | |
| 27 | 20/1 | BATHROOM | | 1.2 | | 28 | 20/1 | SPACE | | 0 | |
| 29 | 20/1 | ROOM POWER | | | 1.3 | 30 | 20/1 | SPACE | | | 0 |
| 31 | 20/1 | MICROWAVE & REF | 1.5 | | | 32 | 20/1 | SPACE | 0 | | |
| 33 | 20/1 | BATHROOM | | 1.2 | | 34 | 20/1 | SPACE | | 0 | |
| 35 | 20/1 | ROOM POWER | | | 1.3 | 36 | 20/1 | SPACE | | | 0 |
| 37 | 20/1 | SPACE | 0 | | | 38 | 20/1 | SPACE | 0 | | |
| 39 | 20/1 | SPACE | | 0 | | 40 | 20/1 | SPACE | | 0 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | 20/1 | SPACE | | | 0 |
| | | LUG LOAD: PANEL L1C | 3.13 | 3.55 | 3.06 | | | TOTAL CONNECTED KVA BY PHASE | 12.1 | 10.7 | 10.9 |

| | CONN KVA | CALC KVA | | | CONN KVA | CALC KVA | |
|---|---|---|---|---|---|---|---|
| LIGHTING | 9.24 | 11.5 | (125%) | APPLIANCE | 7.8 | 5.85 | (75%) |
| | | | | RECEPTACLES | 7.7 | 7.7 | (50%>10) |
| | | | | TOTAL LOAD | | 30.2 | |
| | | | | BALANCED 3-PHASE LOAD | | 83.8 A | |

# L1C

ROOM
MOUNTING FLUSH
FED FROM L1B
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 250
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/2 | LIGHTING | 0.184 | | | 2 | 20/1 | LIGHTING | 0.424 | | |
| 3 | \| | | | 0.184 | | 4 | 20/1 | LIGHTING | | 0.105 | |
| 5 | 20/2 | LIGHTING | | | 0.148 | 6 | 20/1 | LIGHTING | | | 0.112 |
| 7 | \| | | 0.148 | | | 8 | 20/1 | LIGHTING | 0.288 | | |
| 9 | 20/2 | LIGHTING | | 0.148 | | 10 | 20/1 | LIGHTING | | 0.355 | |
| 11 | \| | | | | 0.148 | 12 | 20/1 | LIGHTING | | | 0.224 |
| 13 | 20/1 | PYLON | 0.8 | | | 14 | 20/1 | LIGHTING | 0.195 | | |
| 15 | 20/1 | LIGHTING | | 0.057 | | 16 | 20/1 | LIGHTING | | 0.34 | |
| 17 | 20/1 | LIGHTING | | | 0.069 | 18 | 20/1 | SIGN | | | 0.5 |
| 19 | 20/1 | LIGHTING | 0.361 | | | 20 | 20/1 | LIGHTING | 0.027 | | |
| 21 | 20/1 | LIGHTING | | 0.48 | | 22 | 20/1 | LIGHTING | | 0.05 | |
| 23 | 20/1 | LIGHTING | | | 0.48 | 24 | 20/1 | SPACE | | | 0 |
| 25 | 20/1 | LIGHTING | 0.288 | | | 26 | 20/1 | SPACE | 0 | | |
| 27 | 20/1 | GUEST ROOM LIGHTING | | 1.5 | | 28 | 20/1 | SPACE | | 0 | |
| 29 | 20/1 | GUEST ROOM LIGHTING | | | 1 | 30 | 20/1 | SPACE | | | 0 |
| 31 | 20/1 | GUEST ROOM LIGHTING | 0.5 | | | 32 | 20/1 | SPACE | 0 | | |
| 33 | 20/1 | LIGHTING | | 0.348 | | 34 | 20/1 | SPACE | | 0 | |
| 35 | 20/1 | LIGHTING | | | 0.268 | 36 | 20/1 | SPACE | | | 0 |
| 37 | 20/1 | LIGHTING | 0.028 | | | 38 | 20/1 | SPACE | 0 | | |
| 39 | 20/1 | LIGHTING | | 0.028 | | 40 | 20/2 | SPACE | | 0 | |
| 41 | 20/1 | LIGHTING | | | 0.08 | 42 | \| | | | | 0 |
| | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 3.24 | 3.6 | 3.03 |

| | CONN KVA | CALC KVA | | | CALC KVA |
|---|---|---|---|---|---|
| LIGHTING | 9.37 | 11.7 | (125%) | TOTAL LOAD | 12.2 |
| RECEPTACLES | 0.5 | 0.5 | (50%>10) | BALANCED 3-PHASE LOAD | 33.9 A |


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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

SCHEDULES - ELECTRICAL

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

E0.04

# M1A

ROOM
MOUNTING FLUSH
FED FROM MSB
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 100/2 | PANEL R2 | 4.44 | | | 2 | 20/2 | PTAC | 1.56 | | |
| 3 | \| | | | 7.26 | | 4 | \| | | | 1.56 | |
| 5 | 100/2 | PANEL R1 | | | 8.31 | 6 | 60/2 | AHU-3 | | | 4.68 |
| 7 | \| | | 8.81 | | | 8 | \| | | 4.68 | | |
| 9 | 20/2 | UH-1 | | 1.5 | | 10 | 30/3 | HP-3 | | 2.16 | |
| 11 | \| | | | | 1.5 | 12 | \| | | | | 2.16 |
| 13 | 100/2 | PANEL R4 | 4.41 | | | 14 | \| | | 2.16 | | |
| 15 | \| | | | 7.26 | | 16 | 60/2 | AHU-1 | | 4.68 | |
| 17 | 20/2 | UH-1 | | | 1.5 | 18 | \| | | | | 4.68 |
| 19 | \| | | 1.5 | | | 20 | 30/3 | HP-1 | 2.16 | | |
| 21 | 100/2 | PANEL R6 | | 4.44 | | 22 | \| | | | 2.16 | |
| 23 | \| | | | | 7.26 | 24 | \| | | | | 2.16 |
| 25 | 100/2 | PANEL R8 | 4.44 | | | 26 | 30/3 | HP-2 | 2.16 | | |
| 27 | \| | | | 7.26 | | 28 | \| | | | 2.16 | |
| 29 | 20/2 | OU-1 | | | 1.04 | 30 | \| | | | | 2.16 |
| 31 | \| | | 1.04 | | | 32 | 20/2 | HP2-1 | 1.35 | | |
| 33 | 100/2 | PANEL R3 | | 4.44 | | 34 | \| | | | 1.35 | |
| 35 | \| | | | | 7.26 | 36 | 20/2 | HP3-1 | | | 1.35 |
| 37 | 100/2 | PANEL R7 | 4.48 | | | 38 | \| | | 1.35 | | |
| 39 | \| | | | 7.26 | | 40 | 20/1 | SPACE | | 0 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | 20/1 | SPACE | | | 0 |
| | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 44.6 | 53.5 | 44.1 |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LIGHTING | 2.38 | 2.98 | (125%) |
| APPLIANCE | 9.2 | 9.2 | (100%) |
| LARGEST MOTOR | 9.36 | 2.34 | (25%) |
| MOTORS | 5.41 | 5.41 | (100%) |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| RECEPTACLES | 23.6 | 16.8 | (50%>10) |
| KITCHEN EQUIPMENT | 28.8 | 18.7 | (65%) |
| HEATING | 69.1 | 69.1 | (100%) |
| COOLING | 65.2 | 0 | (0%) |
| TOTAL LOAD | | 126 | |
| BALANCED 3-PHASE LOAD | | 350 A | |

# M2

ROOM
MOUNTING FLUSH
FED FROM MSB
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | SPACE | 0 | | | 2 | 20/2 | PTAC | 1.56 | | |
| 3 | 20/1 | SPACE | | 0 | | 4 | \| | | | 1.56 | |
| 5 | 20/1 | SPACE | | | 0 | 6 | 20/2 | PTAC | | | 1.56 |
| 7 | 20/1 | SPACE | 0 | | | 8 | \| | | 1.56 | | |
| 9 | 20/2 | UH-1 | | 1.5 | | 10 | 20/2 | PTAC | | 1.56 | |
| 11 | \| | | | | 1.5 | 12 | \| | | | | 1.56 |
| 13 | 20/2 | PTAC | 1.56 | | | 14 | 20/2 | PTAC | 1.56 | | |
| 15 | \| | | | 1.56 | | 16 | \| | | | 1.56 | |
| 17 | 20/2 | PTAC | | | 1.56 | 18 | 40/2 | AHU2-1 | | | 3.12 |
| 19 | \| | | 1.56 | | | 20 | \| | | 3.12 | | |
| 21 | 20/2 | PTAC | | 1.56 | | 22 | 20/2 | UH-1 | | 1.5 | |
| 23 | \| | | | | 1.56 | 24 | \| | | | | 1.5 |
| 25 | 20/2 | PTAC | 1.56 | | | 26 | 20/2 | UH-1 | 1.5 | | |
| 27 | \| | | | 1.56 | | 28 | \| | | | 1.5 | |
| 29 | 20/2 | PTAC | | | 1.56 | 30 | 20/2 | PTAC | | | 1.56 |
| 31 | \| | | 1.56 | | | 32 | \| | | 1.56 | | |
| 33 | 20/2 | PTAC | | 1.56 | | 34 | 20/2 | UH-1 | | 1.5 | |
| 35 | \| | | | | 1.56 | 36 | \| | | | | 1.5 |
| 37 | 20/2 | PTAC | 1.56 | | | 38 | 250/3 | PANEL L2A | 21.7 | | |
| 39 | \| | | | 1.56 | | 40 | \| | | | 18.7 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | \| | | | | 18.9 |
| | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 40.3 | 37.2 | 37.4 |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LIGHTING | 6.93 | 8.67 | (125%) |
| APPLIANCE | 14.3 | 10.7 | (75%) |
| LARGEST MOTOR | 6.24 | 1.56 | (25%) |
| MOTORS | 6.24 | 6.24 | (100%) |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| RECEPTACLES | 14.8 | 12.4 | (50%>10) |
| NONCONTINUOUS | 6.7 | 6.7 | (100%) |
| HEATING | 49.4 | 49.4 | (100%) |
| COOLING | 37.4 | 0 | (0%) |
| TOTAL LOAD | | 103 | |
| BALANCED 3-PHASE LOAD | | 287 A | |

# L2A

ROOM
MOUNTING FLUSH
FED FROM M2
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 250
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS FEEDTHRU

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEPTACLE | 0.54 | | | 2 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 3 | 20/1 | RECEPTACLE | | 0.36 | | 4 | 20/1 | BATHROOM | | 1.2 | |
| 5 | 20/1 | RECEPTACLE | | | 0.36 | 6 | 20/1 | ROOM POWER | | | 1.3 |
| 7 | 20/1 | RECEPTACLE | 0.36 | | | 8 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 9 | 20/1 | WASHING MACHINE | | 1.2 | | 10 | 20/1 | BATHROOM | | 1.2 | |
| 11 | 30/2 | DRYER | | | 2.75 | 12 | 20/1 | ROOM POWER | | | 1.3 |
| 13 | \| | | 2.75 | | | 14 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 15 | 20/1 | MICROWAVE & REF | | 1.5 | | 16 | 20/1 | BATHROOM | | 1.2 | |
| 17 | 20/1 | BATHROOM | | | 1.2 | 18 | 20/1 | ROOM POWER | | | 1.3 |
| 19 | 20/1 | ROOM POWER | 1.3 | | | 20 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 21 | 20/1 | MICROWAVE & REF | | 1.5 | | 22 | 20/1 | BATHROOM | | 1.2 | |
| 23 | 20/1 | BATHROOM | | | 1.2 | 24 | 20/1 | ROOM POWER | | | 1.3 |
| 25 | 20/1 | ROOM POWER | 1.3 | | | 26 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 27 | 20/1 | MICROWAVE & REF | | 1.5 | | 28 | 20/1 | BATHROOM | | 1.2 | |
| 29 | 20/1 | BATHROOM | | | 1.2 | 30 | 20/1 | ROOM POWER | | | 1.3 |
| 31 | 20/1 | ROOM POWER | 1.3 | | | 32 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 33 | 20/1 | MICROWAVE & REF | | 1.5 | | 34 | 20/1 | BATHROOM | | 1.2 | |
| 35 | 20/1 | BATHROOM | | | 1.2 | 36 | 20/1 | ROOM POWER | | | 1.3 |
| 37 | 20/1 | ROOM POWER | 1.3 | | | 38 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 39 | 20/1 | SPACE | | 0 | | 40 | 20/1 | BATHROOM | | 1.2 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | 20/1 | ROOM POWER | | | 1.3 |
| | | LUG LOAD: PANEL L2B | 2.31 | 2.76 | 1.86 | | | TOTAL CONNECTED KVA BY PHASE | 21.7 | 18.7 | 18.9 |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LIGHTING | 6.93 | 8.67 | (125%) |
| APPLIANCE | 14.3 | 10.7 | (75%) |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| RECEPTACLES | 14.8 | 12.4 | (50%>10) |
| NONCONTINUOUS | 6.7 | 6.7 | (100%) |
| TOTAL LOAD | | 46.2 | |
| BALANCED 3-PHASE LOAD | | 128 A | |

# L2B

ROOM
MOUNTING FLUSH
FED FROM L2A
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 250
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | LIGHTING | 0.329 | | | 2 | 20/1 | SPACE | 0 | | |
| 3 | 20/1 | LIGHTING | | 0.263 | | 4 | 20/1 | SPACE | | 0 | |
| 5 | 20/1 | LIGHTING | | | 0.356 | 6 | 20/1 | SPACE | | | 0 |
| 7 | 20/1 | LIGHTING | 0.484 | | | 8 | 20/1 | SPACE | 0 | | |
| 9 | 20/1 | GUEST ROOM LIGHTING | | 1.5 | | 10 | 20/1 | SPACE | | 0 | |
| 11 | 20/1 | GUEST ROOM LIGHTING | | | 1.5 | 12 | 20/1 | SPACE | | | 0 |
| 13 | 20/1 | GUEST ROOM LIGHTING | 1.5 | | | 14 | 20/1 | SPACE | 0 | | |
| 15 | 20/1 | GUEST ROOM LIGHTING | | 1 | | 16 | 20/1 | SPACE | | 0 | |
| 17 | 20/1 | SPACE | | | 0 | 18 | 20/1 | SPACE | | | 0 |
| 19 | 20/1 | SPACE | 0 | | | 20 | 20/1 | SPACE | 0 | | |
| 21 | 20/1 | SPACE | | 0 | | 22 | 20/1 | SPACE | | 0 | |
| 23 | 20/1 | SPACE | | | 0 | 24 | 20/1 | SPACE | | | 0 |
| 25 | 20/1 | SPACE | 0 | | | 26 | 20/1 | SPACE | 0 | | |
| 27 | 20/1 | SPACE | | 0 | | 28 | 20/1 | SPACE | | 0 | |
| 29 | 20/1 | SPACE | | | 0 | 30 | 20/1 | SPACE | | | 0 |
| 31 | 20/1 | SPACE | 0 | | | 32 | 20/1 | SPACE | 0 | | |
| 33 | 20/1 | SPACE | | 0 | | 34 | 20/1 | SPACE | | 0 | |
| 35 | 20/1 | SPACE | | | 0 | 36 | 20/1 | SPACE | | | 0 |
| 37 | 20/1 | SPACE | 0 | | | 38 | 20/1 | SPACE | 0 | | |
| 39 | 20/1 | SPACE | | 0 | | 40 | 20/1 | SPACE | | 0 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | 20/1 | SPACE | | | 0 |
| | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 2.31 | 2.76 | 1.86 |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LIGHTING | 6.93 | 8.67 | (125%) |

| | CALC KVA |
|---|---|
| TOTAL LOAD | 8.67 |
| BALANCED 3-PHASE LOAD | 24.1 A |


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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEERS

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

SCHEDULES - ELECTRICAL

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

E0.05

# M3

ROOM
MOUNTING FLUSH
FED FROM MSB
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 40/2 | AHU3-1 | 3.12 | | | 2 | 20/2 | PTAC | 1.56 | | |
| 3 | \| | | | 3.12 | | 4 | \| | | | 1.56 | |
| 5 | 20/2 | UH-1 | | | 1.5 | 6 | 20/2 | PTAC | | | 1.56 |
| 7 | \| | | 1.5 | | | 8 | \| | | 1.56 | | |
| 9 | 20/1 | SPACE | | 0 | | 10 | 20/2 | PTAC | | 1.56 | |
| 11 | 20/1 | SPACE | | | 0 | 12 | \| | | | | 1.56 |
| 13 | 20/2 | PTAC | 1.56 | | | 14 | 20/2 | PTAC | 1.56 | | |
| 15 | \| | | | 1.56 | | 16 | \| | | | 1.56 | |
| 17 | 20/2 | PTAC | | | 1.56 | 18 | 20/2 | SPACE | | | 0 |
| 19 | \| | | 1.56 | | | 20 | \| | | 0 | | |
| 21 | 20/2 | PTAC | | 1.56 | | 22 | 20/2 | UH-1 | | 1.5 | |
| 23 | \| | | | | 1.56 | 24 | \| | | | | 1.5 |
| 25 | 20/2 | PTAC | 1.56 | | | 26 | 20/2 | UH-1 | 1.5 | | |
| 27 | \| | | | 1.56 | | 28 | \| | | | 1.5 | |
| 29 | 20/2 | PTAC | | | 1.56 | 30 | 20/2 | PTAC | | | 1.56 |
| 31 | \| | | 1.56 | | | 32 | \| | | 1.56 | | |
| 33 | 20/2 | PTAC | | 1.56 | | 34 | 20/2 | UH-1 | | 1.5 | |
| 35 | \| | | | | 1.56 | 36 | \| | | | | 1.5 |
| 37 | 20/2 | PTAC | 1.56 | | | 38 | 250/3 | PANEL L3A | 18.9 | | |
| 39 | \| | | | 1.56 | | 40 | \| | | | 17.1 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | \| | | | | 16.5 |
| | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 39.1 | 37.2 | 31.9 |

| | CONN KVA | CALC KVA | | | CONN KVA | CALC KVA | |
|---|---|---|---|---|---|---|---|
| LIGHTING | 7.01 | 8.76 | (125%) | MOTORS | 6.24 | 6.24 | (100%) |
| APPLIANCE | 14.3 | 10.7 | (75%) | RECEPTACLES | 14.6 | 12.3 | (50%>10) |
| LARGEST MOTOR | 6.24 | 1.56 | (25%) | HEATING | 49.4 | 49.4 | (100%) |
| | | | | COOLING | 37.4 | 0 | (0%) |
| | | | | TOTAL LOAD | | 96.8 | |
| | | | | BALANCED 3-PHASE LOAD | | 269 A | |

# L3B

ROOM
MOUNTING FLUSH
FED FROM L3A
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 250
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | LIGHTING | 0.333 | | | 2 | 20/1 | SPACE | 0 | | |
| 3 | 20/1 | LIGHTING | | 0.333 | | 4 | 20/1 | SPACE | | 0 | |
| 5 | 20/1 | LIGHTING | | | 0.32 | 6 | 20/1 | SPACE | | | 0 |
| 7 | 20/1 | LIGHTING | 0.52 | | | 8 | 20/1 | SPACE | 0 | | |
| 9 | 20/1 | GUEST ROOM LIGHTING | | 1.5 | | 10 | 20/1 | SPACE | | 0 | |
| 11 | 20/1 | GUEST ROOM LIGHTING | | | 1.5 | 12 | 20/1 | SPACE | | | 0 |
| 13 | 20/1 | GUEST ROOM LIGHTING | 1 | | | 14 | 20/1 | SPACE | 0 | | |
| 15 | 20/1 | GUEST ROOM LIGHTING | | 1.5 | | 16 | 20/1 | SPACE | | 0 | |
| 17 | 20/1 | SPACE | | | 0 | 18 | 20/1 | SPACE | | | 0 |
| 19 | 20/1 | SPACE | 0 | | | 20 | 20/1 | SPACE | 0 | | |
| 21 | 20/1 | SPACE | | 0 | | 22 | 20/1 | SPACE | | 0 | |
| 23 | 20/1 | SPACE | | | 0 | 24 | 20/1 | SPACE | | | 0 |
| 25 | 20/1 | SPACE | 0 | | | 26 | 20/1 | SPACE | 0 | | |
| 27 | 20/1 | SPACE | | 0 | | 28 | 20/1 | SPACE | | 0 | |
| 29 | 20/1 | SPACE | | | 0 | 30 | 20/1 | SPACE | | | 0 |
| 31 | 20/1 | SPACE | 0 | | | 32 | 20/1 | SPACE | 0 | | |
| 33 | 20/1 | SPACE | | 0 | | 34 | 20/1 | SPACE | | 0 | |
| 35 | 20/1 | SPACE | | | 0 | 36 | 20/1 | SPACE | | | 0 |
| 37 | 20/1 | SPACE | 0 | | | 38 | 20/1 | SPACE | 0 | | |
| 39 | 20/1 | SPACE | | 0 | | 40 | 20/1 | SPACE | | 0 | |
| 41 | 20/1 | SPACE | | | 0 | 42 | 20/1 | SPACE | | | 0 |
| | | | | | | | | TOTAL CONNECTED KVA BY PHASE | 1.85 | 3.33 | 1.82 |

| | CONN KVA | CALC KVA | | | CALC KVA |
|---|---|---|---|---|---|
| LIGHTING | 7.01 | 8.76 | (125%) | TOTAL LOAD | 8.76 |
| | | | | BALANCED 3-PHASE LOAD | 24.3 A |

# L3A

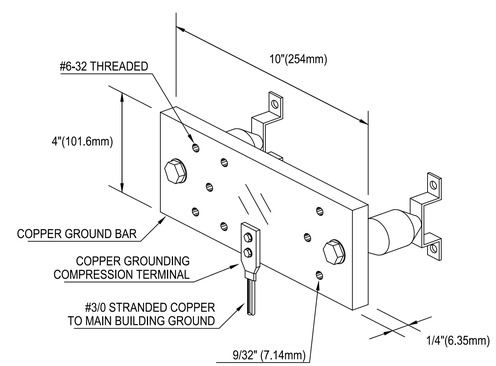
ROOM
MOUNTING FLUSH
FED FROM M3
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 250
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS FEEDTHRU

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | LOAD KVA C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | RECEPTACLE | 0.54 | | | 2 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 3 | 20/1 | RECEPTACLE | | 0.54 | | 4 | 20/1 | BATHROOM | | 1.2 | |
| 5 | 20/1 | RECEPTACLE | | | 0.36 | 6 | 20/1 | ROOM POWER | | | 1.3 |
| 7 | 20/1 | 3-00 MICROWAVE & REF | 1.5 | | | 8 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 9 | 20/1 | BATHROOM | | 1.2 | | 10 | 20/1 | BATHROOM | | 1.2 | |
| 11 | 20/1 | ROOM POWER | | | 1.3 | 12 | 20/1 | ROOM POWER | | | 1.3 |
| 13 | 20/1 | MICROWAVE & REF | 1.5 | | | 14 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 15 | 20/1 | BATHROOM | | 1.2 | | 16 | 20/1 | BATHROOM | | 1.2 | |
| 17 | 20/1 | ROOM POWER | | | 1.3 | 18 | 20/1 | ROOM POWER | | | 1.3 |
| 19 | 20/1 | MICROWAVE & REF | 1.5 | | | 20 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 21 | 20/1 | BATHROOM | | 1.2 | | 22 | 20/1 | BATHROOM | | 1.2 | |
| 23 | 20/1 | ROOM POWER | | | 1.3 | 24 | 20/1 | ROOM POWER | | | 1.3 |
| 25 | 20/1 | MICROWAVE & REF | 1.5 | | | 26 | 20/1 | MICROWAVE & REF | 1.5 | | |
| 27 | 20/1 | BATHROOM | | 1.2 | | 28 | 20/1 | BATHROOM | | 1.2 | |
| 29 | 20/1 | ROOM POWER | | | 1.3 | 30 | 20/1 | ROOM POWER | | | 1.3 |
| 31 | 20/1 | MICROWAVE & REF | 1.5 | | | 32 | 20/1 | SPACE | 0 | | |
| 33 | 20/1 | BATHROOM | | 1.2 | | 34 | 20/1 | SPACE | | 0 | |
| 35 | 20/1 | ROOM POWER | | | 1.3 | 36 | 20/1 | SPACE | | | 0 |
| 37 | 20/1 | MICROWAVE & REF | 1.5 | | | 38 | 20/1 | SPACE | 0 | | |
| 39 | 20/1 | BATHROOM | | 1.2 | | 40 | 20/1 | SPACE | | 0 | |
| 41 | 20/1 | ROOM POWER | | | 1.3 | 42 | 20/1 | SPACE | | | 0 |
| | | LUG LOAD: PANEL L3B | 1.85 | 3.33 | 1.82 | | | TOTAL CONNECTED KVA BY PHASE | 18.9 | 17.1 | 16.5 |

| | CONN KVA | CALC KVA | | | CONN KVA | CALC KVA | |
|---|---|---|---|---|---|---|---|
| LIGHTING | 7.01 | 8.76 | (125%) | APPLIANCE | 14.3 | 10.7 | (75%) |
| | | | | RECEPTACLES | 14.6 | 12.3 | (50%>10) |
| | | | | TOTAL LOAD | | 39.5 | |
| | | | | BALANCED 3-PHASE LOAD | | 110 A | |




## 2 IT GROUND BAR DETAIL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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEWMAN 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

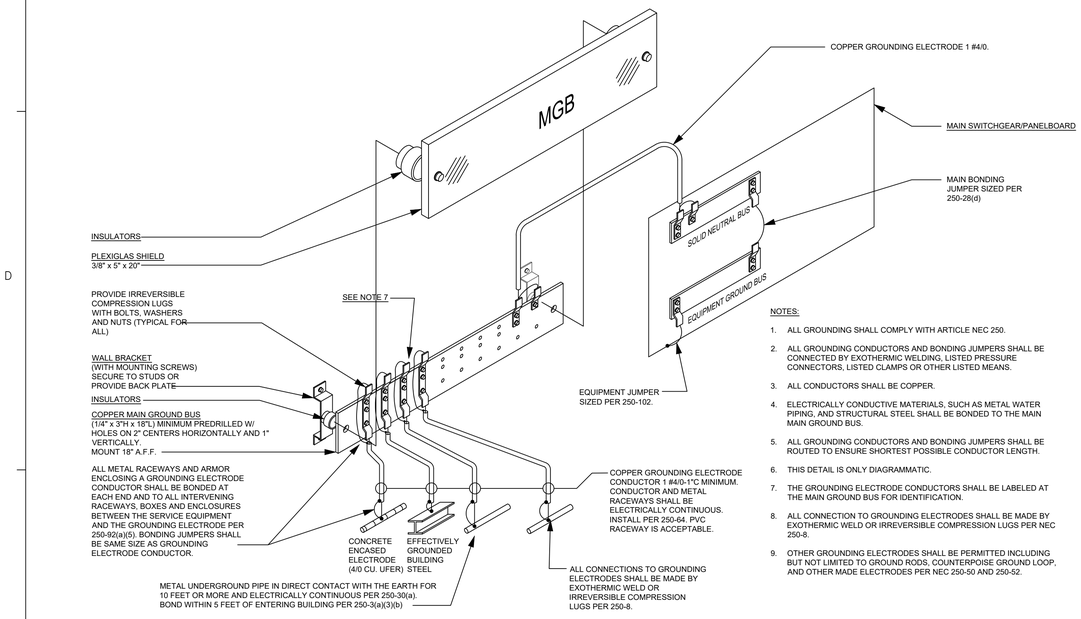
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

SCHEDULES - ELECTRICAL

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

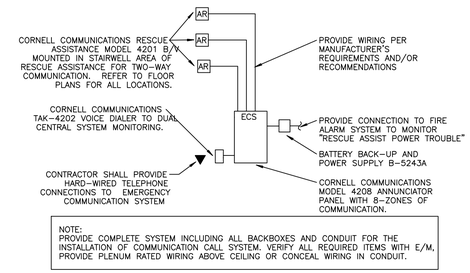
E0.06




NOTES:

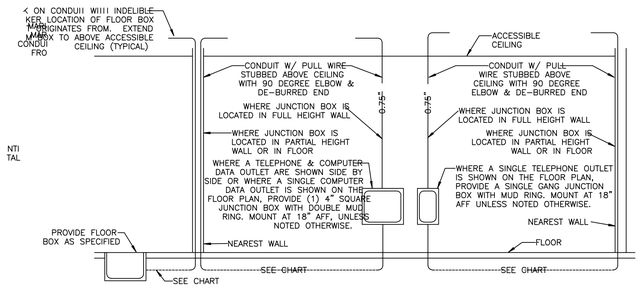
1. ALL GROUNDING SHALL COMPLY WITH ARTICLE NEC 250.
2. ALL GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS.
3. ALL CONDUCTORS SHALL BE COPPER.
4. ELECTRICALLY CONDUCTIVE MATERIALS, SUCH AS METAL WATER PIPING, AND STRUCTURAL STEEL SHALL BE BONDED TO THE MAIN MAIN GROUND BUS.
5. ALL GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE ROUTED TO ENSURE SHORTEST POSSIBLE CONDUCTOR LENGTH.
6. THIS DETAIL IS ONLY DIAGRAMMATIC.
7. THE GROUNDING ELECTRODE CONDUCTORS SHALL BE LABELED AT THE MAIN GROUND BUS FOR IDENTIFICATION.
8. ALL CONNECTION TO GROUNDING ELECTRODES SHALL BE MADE BY EXOTHERMIC WELD OR IRREVERSIBLE COMPRESSION LUGS PER NEC 250-8.
9. OTHER GROUNDING ELECTRODES SHALL BE PERMITTED INCLUDING BUT NOT LIMITED TO GROUND RODS, COUNTERPOISE GROUND LOOP, AND OTHER MADE ELECTRODES PER NEC 250-50 AND 250-52.

## 1 MAIN GROUNDING BUSS DETAIL

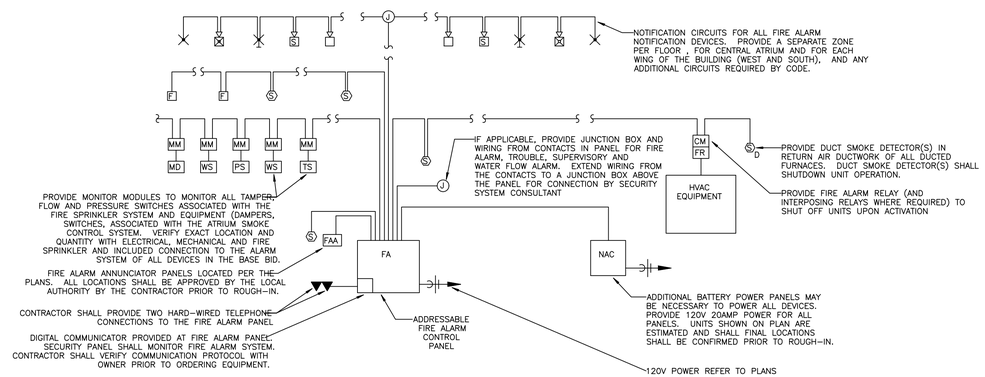



NOTE:
PROVIDE COMPLETE SYSTEM INCLUDING ALL BACKBOXES AND CONDUIT FOR THE INSTALLATION OF COMMUNICATION CALL SYSTEM. VERIFY ALL REQUIRED ITEMS WITH E/M, PROVIDE PLENUM RATED WIRING ABOVE CEILING OR CONCEAL WIRING IN CONDUIT.

## 2 FIRE ALARM DETAIL
NOT TO SCALE



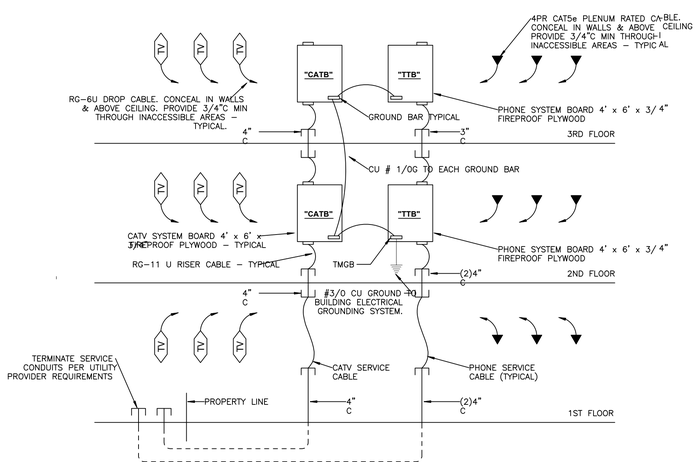

## 3 DATA OUTLET DETAIL
NOT TO SCALE




FIRE ALARM SYSTEM

| SEQUENCE OF OPERATION | | |
|---|---|---|
| ACTIVATED DEVICE | LOCATION | ACTION |
| SMOKE DETECTOR | HVAC EQUIPMENT DUCT AT RETURN OR SUPPLY AIR OPENING | ASSOCIATED HVAC EQUIPMENT SHUTDOWN VIA FIRE ALARM RELAY<br>CONTACT CENTRAL MONITORING FACILITY – ALARM |
| SMOKE DETECTOR | GENERAL | GENERAL BUILDING ALARM<br>CLOSE FIRE/SMOKE DAMPERS(WHERE DAMPERS ARE SHOWN ON THE PLAN)<br>ALL HVAC EQUIPMENT SHUTDOWN VIA FIRE ALARM RELAY<br>RELEASE FIRE DOOR MAGNETIC HOLD-OPENS<br>CONTACT CENTRAL MONITORING FACILITY – ALARM |
| MANUAL PULL STATION | ALL LOCATIONS | GENERAL BUILDING ALARM<br>CLOSE FIRE/SMOKE DAMPERS (WHERE DAMPERS ARE SHOWN ON PLAN)<br>CONTACT CENTRAL MONITORING FACILITY – ALARM |
| SPRINKLER WATER FLOW SWITCH | ALL LOCATIONS | GENERAL BUILDING ALARM<br>CLOSE FIRE/SMOKE DAMPERS (WHERE DAMPERS ARE SHOWN ON PLAN)<br>CONTACT CENTRAL MONITORING FACILITY – ALARM |
| VALVE TAMPER SWITCH | ALL LOCATIONS | AUDIBLE & VISUAL ALARM AT FIRE ALARM PANELS<br>SUPERVISORY ALARM<br>CONTACT CENTRAL MONITORING FACILITY – SUPERVISORY ALARM |
| NOTE: SEQUENCE OF OPERATION IS SUBJECT TO APPROVAL BY LOCAL FIRE MARSHAL AND CODE OFFICIAL | | |

## 5 FIRE ALARM RISER DIAGRAM
NOT TO SCALE




## 4 DATA SYSTEMS RISER DIAGRAM
NOT TO SCALE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DRAWING NAME

SCHEDULES - ELECTRICAL

DRAWN BY:

CHECKED BY:

APPROVED BY:

DRAWING NUMBER:

E0.07

# GENERAL NOTES

1. ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE NEC (NATIONAL ELECTRICAL CODE) AND THE REQUIREMENTS OF ANY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
2. SEE PANEL SCHEDULES FOR ADDITIONAL CIRCUIT, CONDUIT AND LOAD INFORMATION.
3. WHERE EXPOSED AND SUBJECT TO DAMAGE, CONDUIT SHALL BE GRC UP TO 10' AFF.
4. MINIMUM CONDUIT SIZE SHALL BE 3/4" AND MINIMUM WIRING SIZE SHALL BE #12AWG.
5. ALL CIRCUIT WIRING SHALL BE THHN TYPE WIRING. CIRCUIT WIRING IN FREEZER/COOLER AREAS SHALL BE XHHW TYPE INSULATION WIRING.
6. MULTIPLE CIRCUITS MAY BE COMBINED INTO A SINGLE CONDUIT ONLY BY APPLYING NEC ARTICLE 310.15.B.2. CONDUCTOR SIZES LISTED ON THE PANEL SCHEDULES DO NOT ACCOUNT FOR THE COMBINING OF CIRCUITS.
7. LOCATE RECEPTACLES IN THE WEB OF COLUMNS WHERE POSSIBLE OR AS INDICATED ON THE DRAWINGS. COORDINATE WITH OTHER TRADES.
8. SLIGHT MODIFICATIONS TO DESIGNED CIRCUITRY ARE PERMITTED PROVIDED CIRCUIT LOADING, DERATING, BALANCE, AND VOLTAGE DROP ARE TAKEN INTO CONSIDERATION. ALL MODIFICATIONS MUST BE DILIGENTLY NOTED ON THE "AS-BUILT" DRAWING SET.
9. ALL BRANCH CIRCUIT SHALL BE INSTALLED USING EMT CONDUIT WITH COMPRESSION FITTINGS. IN ENGINEER/ARCHITECT APPROVED AREAS, MC CABLE SHALL BE PERMITTED, UOI.
10. MC CABLE SHALL BE SUPPORTED AND SECURED AT INTERVALS NOT EXCEEDING 6' AND WITHIN 12" OF EVERY BOX, CABINET, FITTING OR OTHER CABLE TERMINATION UNLESS OTHERWISE PERMITTED BY NEC. SEE ARTICLE 330 FOR FURTHER INFORMATION.
11. EMT SHALL BE SECURELY FASTENED IN PLACE AT LEAST EVERY 10'. IN ADDITION, EACH EMT RUN SHALL BE SECURELY FASTENED WITHIN 3' OF EACH OUTLET BOX, JUNCTION BOX, DEVICE BOX, CABINET, CONDUIT BODY. SEE ARTICLE 358 FOR FURTHER INFORMATION.
12. DO NOT SUPPORT RACEWAYS, BOXES, CABINETS, FITTINGS, CABLE ASSEMBLIES OR FIXTURES TO THE CEILING GRID SUPPORT SYSTEM. INDEPENDENT SUPPORT WIRES MAY BE USED AS A SOLE MEANS OF SUPPORT PROVIDED THEY ARE SECURED AT BOTH ENDS AND DISTINGUISHABLE BY COLOR, TAGGING OR OTHER EFFECTIVE MEANS FOR THE CEILING GRID SUPPORT SYSTEM.
13. ALL 480/277 VOLT WIRING SHALL ADHERE TO A "BROWN-ORANGE-YELLOW" COLOR CODE.
14. ALL 208/120 VOLT WIRING SHALL ADHERE TO A "BLACK-RED-BLUE" COLOR CODE.
15. AT LEAST 6" OF FREE CONDUCTOR, SHALL BE LEFT AT EACH OUTLET, JUNCTION, AND SWITCH POINT FOR SPLICES OR THE CONNECTION OF FIXTURES OR DEVICES WITH THE EXCEPTION OF CONDUCTORS THAT ARE NOT SPLICED OR TERMINATED AT THE OUTLET, JUNCTION, OR SWITCH POINT.
16. ALL CIRCUIT DESIGNATIONS SHALL BE MARKED ON JUNCTION BOXES WHERE THEY SPLICE OR PASS THROUGH.
17. ALL CEILING MOUNTED 4" SQUARE JUNCTION BOXES SHALL BE 2 1/8" DEEP. DEVICE BOXES (4" SQUARE AND PLASTER RING) MAY BE 1-1/2" DEEP.
18. THE NUMBER OF CONDUCTORS IN A JUNCTION BOX SHALL BE SUBJECT TO THE PROVISIONS OF NEC ARTICLE 314.16.
19. IN WALLS OR CEILINGS WITH A SURFACE OF CONCRETE, TILE, GYPSUM, PLASTER, OR OTHER NONCOMBUSTIBLE MATERIAL, BOXES SHALL BE INSTALLED SO THAT THE FRONT EDGE OF THE BOX (OR PLASTER RING) WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". (NEC 314.20).
20. BOXES SHALL BE INSTALLED SO THE WIRING CONTAINED WITHIN IS ACCESSIBLE.
21. METAL BOXES SHALL BE GROUNDED BY AN APPROVED MEANS.
22. WHERE NAILS OR SCREWS ARE LIKELY TO PENETRATE EMT OR MC CABLE, A STEEL SLEEVE, STEEL PLATE, OR STEEL CLIP NOT LESS THAN 1/16" THICKNESS SHALL BE USED TO PROTECT THE CABLE OR TUBING.
23. MOUNTING HEIGHTS OF WALL OUTLETS AFF TO BOTTOM SHALL BE AS FOLLOWS, UOI ON PLANS: SWITCHES-48", RECEPTACLES & PHONE/DATA OUTLETS IN OFFICE AREAS-18".
24. WHERE DEVICES ARE SHOWN TO BE INSTALLED ABOVE CASEWORK OR COUNTERS, EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE CASEWORK CONTRACTOR BEFORE ROUGH-IN WORK IS COMPLETED.
25. WHERE A GFCI RECEPTACLE IS USED, THE RECEPTACLE SHALL NOT BE LOCATED TO CONCEAL THE RECEPTACLE. IT MUST BE READILY ACCESSIBLE. PROVIDE GFCI BREAKER IF RECEPTACLE AS ALTERNATIVE PROTECTION.

# GENERAL EQUIPMENT NOTES

1. CONTRACTOR SHALL PROVIDE ALL POWER CONNECTIONS AS REQUIRED FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL PROVIDE 120V CIRCUITS FOR ALL MECHANICAL CONTROL PANELS AS REQUIRED. COORDINATE WITH MC.
3. DRY-TYPE TRANSFORMERS RATED 112.5 KVA OR LESS REQUIRE 12" OF SEPARATION FROM COMBUSTIBLE MATERIAL OR SEPARATION BY FIRE-RESISTANT BARRIERS. TRANSFORMERS LARGER THAN 112.5 KVA MUST BE LOCATED IN FIRE-RESISTANT ROOM OR BY THE EXCEPTIONS OF ARTICLE 450.21.B.
4. PROPER CLEARANCE MUST BE MAINTAINED AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.26.
5. PANELBOARDS, STARTERS, DISCONNECT SWITCHES, ETC. SHALL BE INSTALLED SUCH THAT THE TOP OF THE EQUIPMENT IS 72" AFF, UOI.
6. REFER TO THE MECHANICAL/PLUMBING DRAWINGS TO VERIFY EQUIPMENT LOCATIONS AND COORDINATION OF STARTERS, DISCONNECT SWITCHES, THERMOSTATS, CONTROL WIRING, DUCT DETECTORS, ETC.
7. INSTALL VIBRATION ISOLATION PADS UNDER THE FEET OF TRANSFORMERS INSTALLED ABOVE CEILING OR IN ELECTRIC CLOSETS IN OFFICE AREAS AND OTHER AREAS AS MAY BE INDICATED ON THE DRAWINGS.

# GENERAL NOTES (CONT)

1. ALL FIRE BARRIER PENETRATIONS SHALL BE MADE WITH U.L. LISTED ASSEMBLIES.
2. ALL MAJOR FEEDERS SHALL BE INSTALLED UNDER SLAB/UNDERGROUND USING SCHEDULE 40 PVC WHERE ACCEPTABLE.
3. ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE AND GASES.
4. PROVIDE PROPER CONDUIT SEAL OFF AND INSULATION AT WALL PENETRATIONS BETWEEN AREAS OF DIFFERENT TEMPERATURES.
5. THE METHOD OF INSTALLING CONDUIT THROUGH INSULATED WALL SHALL BE AS FOLLOWS
   - 5.1. HOLE SHALL BE CUT NEAT AT 1/4" LARGER THAN CONDUIT.
   - 5.2. CONDUIT SHALL BE OF A PVC TYPE WHICH WILL EXTEND BEYOND WALL FOR 1" ON EACH FACE.
   - 5.3. AFTER WIRE HAS BEEN INSTALLED, CONDUIT SHALL BE FILLED SOLID WITH DUCT SEAL PLASTIC FILLER.
   - 5.4. AFTER ALL WIRING IS COMPLETED, INSULATION CONTRACTOR SHALL SEAL CONDUIT WITH URETHANE FOAM AND VAPOR SEAL AROUND OUTSIDE OF CONDUIT.
6. ALL EMERGENCY CIRCUIT BOXES AND ENCLOSURES (INCLUDING TRANSFER SWITCHES, GENERATORS, AND POWER PANELS) FOR EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM.
7. EMERGENCY CIRCUIT WIRING CONSISTING OF TWO OR MORE EMERGENCY CIRCUITS SUPPLIED FROM THE SAME SOURCE SHALL BE PERMITTED IN THE SAME RACEWAY, CABLE, BOX, OR CABINET. EMERGENCY CIRCUIT WIRING SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT OTHER THAN IN TRANSFER EQUIPMENT ENCLOSURES, EXIT OR EMERGENCY FIXTURES, COMMON JUNCTION BOX, ATTACHED TO EXIT OR EMERGENCY FIXTURES OR A COMMON JUNCTION BOX ATTACHED TO UNIT EQUIPMENT, CONTAINING ONLY THE BRANCH CIRCUIT SUPPLYING THE UNIT EQUIPMENT AND THE EMERGENCY CIRCUIT SUPPLIED BY THE UNIT EQUIPMENT.
8. REFER TO ARTICLE 300.22 FOR WIRING IN AIR HANDLING (PLENUM) SPACES.
9. ALL SPLICES SHALL BE MADE UP TIGHT USING APPROVED MATERIALS AND "PULL TESTED" FOR INTEGRITY.
10. FLEXIBLE CORDS/CABLES SHALL BE CONNECTED TO DEVICES AND/OR FITTINGS SO THAT TENSION IS NOT TRANSMITTED TO JOINTS OR TERMINALS.
11. AN ENCLOSURE MOUNTED TO STRUCTURAL OR SUPPORTING ELEMENTS OF A SUSPENDED CEILING SHALL BE NOT MORE THAN 100 CUBIC INCHES IN SIZE AND SHALL BE SECURELY FASTENED TO THE CEILING GRID BY AN APPROVED MEANS.
12. RACEWAY CONNECTIONS TO TRANSFORMERS OR OTHER VIBRATING EQUIPMENT SHALL BE MADE USING AN APPROVED FLEXIBLE CONNECTION.
13. CONTRACTOR SHALL PROVIDE PUSHBUTTON FOR LOWERING CONTROL OF PROJECTOR LIFT AND MOTORIZED SCREEN. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AS REQUIRED FOR THIS OPERATION, COORDINATE WITH A/V VENDORS.
14. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AS REQUIRED FOR ALL KITCHEN EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN. REFER TO KITCHEN PLANS.
15. ALL RECEPTACLES IN KITCHEN/RESTROOM AREAS SHALL HAVE GFCI PROTECTION (GFCI BREAKER OR GFCI RECEPTACLE).
16. WHEREVER MODULAR FURNITURE MAY BE USED, COORDINATE THE LOCATION OF RECEPTACLES WITH OPENINGS IN THE FURNITURE. THIS IS CRITICAL TO PREVENT REWORK.
17. PLAN LAYOUT SHOWN IN THESE DOCUMENTS ARE SCHEMATIC AND ARE INTENDED TO ILLUSTRATE DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN INCLUDING BUT NOT LIMITED TO SERVICE ENTRY, PANEL SIZE, AND CIRCUITRY.
18. THE SCOPE OF WORK INDICATED SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO, THE STANDARD ELECTRIC CODE AND THE NEC (LATEST APPLICABLE EDITION).
19. THE ELECTRICAL WORK SHOWN ON THE SUBMITTED PLANS SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL SECURE AN ELECTRICAL PERMIT FOR THEIR PORTION OF THE WORK PRIOR TO INSTALLATION.
20. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.
21. CONFIRM ELECTRICAL REQUIREMENTS FOR ANY OWNER SUPPLIED ITEMS PRIOR TO WIRING OR FINAL CIRCUITING.
22. SUBMIT CUT SHEETS FOR ELECTRICAL FIXTURES TO OWNER/ARCHITECT.
23. OUTLETS OF ANY TYPE SHALL NEVER BE INSTALLED BACK TO BACK. OUTLETS IN RATED WALL MUST BE INSTALLED 24" APART.
24. ALL LOW VOLTAGE WIRING, WITH EXCEPTION OF THE FIRE ALARM SYSTEM, IS THE OWNER'S RESPONSIBILITY.
25. CONTRACTOR SHALL PROVIDE J-HOOKS ON 24" SPACING ABOVE CEILING AS REQUIRED FOR NEW DATA CABLING. COORDINATE WITH OWNER.
26. IF REQUIRED, CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR PROPER OPERATION OF ELECTRONIC LOCKING DOORS. DOOR LOCKS SHALL RELEASE UPON FIRE ALARM ACTIVATION. PROVIDE RELAYS FROM DOOR CONTROLLER TO FIRE ALARM CONTROL PANEL AS REQUIRED. COORDINATE ALL WORK WITH VENDOR.

# GENERAL LIGHTING NOTES

1. SEE NEC ARTICLE 410 FOR MORE INFORMATION REGARDING LIGHTING FIXTURES.
2. LIGHTING CIRCUITS ABOVE THE BAR JOIST OR IN CONCEALED AREAS MAY BE FLEXIBLE WIRING UOI.
3. LIGHT SWITCHES SHALL BE MOUNTED AT 48" TO THE BOTTOM OF THE BOX, UOI.
4. LAY IN TYPE LIGHTING FIXTURES SHALL BE SUPPORTED BY EITHER OF TWO METHODS:
   - 4.1. THEY SHALL BE SECURELY ATTACHED TO THE CEILING GRID BOLTS, SCREWS, RIVETS, OR LISTED CLIPS IDENTIFIED FOR USE WITH THE CEILING MANUFACTURER
   - 4.2. THEY SHALL BE ATTACHED TO THE BUILDING STRUCTURE BY AN INDEPENDENT MEANS (CEILING WIRE) AND COLOR CODED TO DISTINGUISH THIS SUPPORT FROM THE CEILING GRID SUPPORT SYSTEM.
5. A RECESSED LIGHTING FIXTURE THAT IS NON-TYPE IC SHALL HAVE ALL RECESSED PARTS SPACED NOT LESS THAN 1/2" FROM COMBUSTIBLE MATERIALS.
6. ALL 2' X 2' LIGHT FIXTURES SHALL BE ORIENTED SUCH THAT LONG EDGE OF LAMPS RUN THE SAME DIRECTION THROUGHOUT THE FACILITY.
7. ALL EMERGENCY/EGRESS FIXTURES AND SIGNS MOUNTED ABOVE DOORWAYS SHALL SHALL CENTER MTD ON WALL ABOVE DOOR HEADER, UOI.
8. OUTLET BOXES OR FITTINGS INSTALLED AS REQUIRED BY ARTICLE 314.23 SHALL BE PERMITTED TO SUPPORT LIGHTING FIXTURES.
9. DURING INSTALLATION, IF AN OBVIOUS CONFLICT IS DISCOVERED BETWEEN LIGHTING FIXTURES AND OTHER BUILDING ELEMENTS (STRUCTURE, HVAC, PLUMBING, SPRINKLER, ETC.) THE CONTRACTOR HAS THE AUTHORITY TO MAKE MINOR ADJUSTMENTS TO THE FIXTURE LAYOUT. OTHER ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER OF RECORD.
10. LIGHT FIXTURES HAVE BEEN SELECTED TO BE OF PROPER CONSTRUCTION AND LISTED FOR THE ENVIRONMENT. ANY DEVIATION IN THE TYPE OR LOCATION SHALL BE APPROVED BY THE ENGINEER OF RECORD.
11. SEE ARCHITECTURAL REFLECTED CEILING PLANS (WHERE AVAILABLE) FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.
12. LIGHT FIXTURES SHALL NOT BE USED AS A RACEWAY, UNLESS LISTED AND MARKED FOR THAT PURPOSE.
13. THESE DRAWINGS SHOW THE INTENT OF THE DESIGNER. EVERY WIRE IS NOT ILLUSTRATED (EXAMPLES: WIRING BETWEEN 3-WAY SWITCHES, WIRING FOR AN EMERGENCY BALLAST, ETC.) ON THESE DRAWINGS.
14. THE INSTALLER SHOULD REFER TO THE DETAILS FOR THE PROPER WIRING OF OCCUPANCY SENSORS. COORDINATE WITH VENDOR.
15. CONDUITS, LIGHTING FIXTURES, ETC SHALL NOT BE MOUNTED DIRECTLY BELOW SMOKE/HEAT VENTS, SPRINKLER HEADS, EVAPORATOR VENTS OR SKY LIGHTS.
16. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY AND ALL FIXTURES NOT PRE-APPROVED BY ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID.
17. ALL OCCUPANCY SENSORS SHALL BE SET WITH A 10 MINUTE TIME OUT, WITH THE EXCEPTION OF RESTROOM SENSORS. ALL RESTROOM SENSORS SHALL BE SET WITH A 20 MINUTE TIME OUT.
18. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR PROPER OPERATION OF FIXTURES.
19. CONTRACTOR SHALL REFER TO LATEST ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
20. SHORT DASHED CIRCUITS REPRESENT CIRCUITS WHICH ARE EMERGENCY OR UN-SWITCHED NIGHT LIGHT CIRCUITS. EACH FIXTURE WITH AN EMERGENCY BALLAST REQUIRES A WIRE WHICH IS CONSTANTLY HOT (NOT SWITCHED) FOR PROPER OPERATION.IF NIGHT LIGHT CIRCUIT, CIRCUIT FIXTURES AHEAD OF ANY SWITCHES OR SENSORS.
21. ALL LIGHTING LAYOUTS ARE BASED ON REFLECTED CEILING PLANS. DO NOT ALTER THE NUMBER OF FIXTURES INDICATED ON DRAWINGS. SEE FIXTURE SCHEDULE FOR APPLICABLE NOTES.
22. CONTRACTOR SHALL PROVIDE POWER PACKS FOR OCCUPANCY SENSORS AS REQUIRED BY MANUFACTURER. PROVIDE 120V CIRCUITS FROM NEAREST 120V PANEL AS REQUIRED.
23. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR OPERATION OF OCCUPANCY SENSORS, INCLUDING FOR USE WITH MECHANICAL LOADS - EXHAUST FANS.
24. CONTRACTOR SHALL CONCEAL ALL WIRES AND DEVICES WHERE POSSIBLE. IN AREAS WHERE CONCEALMENT IS NOT PRACTICAL, PROVIDE WIREMOLD PAINTED TO MATCH FINISHES. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.

# GENERAL GROUNDING NOTES

1. ALL GROUND RODS SHALL BE 3/4" X 10' COPPER-CLAD STEEL UOI. EVERY EFFORT SHOULD BE MADE TO INSTALL THE GROUND RODS IN A VERTICAL POSITION. IF THIS IS NOT POSSIBLE, IN SOME CASES, THE ENGINEER MAY REQUIRE THE INSTALLATION OF A PLATE ELECTRODE OR HE MAY APPROVE AN ANGLED OR HORIZONTAL INSTALLATION OF A GROUND ROD.
2. GROUND RODS AND THE GROUND RING CONDUCTORS SHALL BE LOCATED 24" MINIMUM FROM THE STRUCTURAL FOUNDATION AND SHALL BE BURIED 30" MINIMUM BELOW FINISHED GRADE (REFERENCE NEC 250.52.F).
3. IN GENERAL, THE GROUND LOOP SHALL CONSIST OF 4/0 STRANDED BARE COPPER UOI. WHEREVER BARE GROUNDING SYSTEM CONDUCTORS PASS THROUGH OR TERMINATE IN CONCRETE, THE EXPOSED COPPER CONDUCTOR MUST BE PAINTED WITH A PVC TYPE PAINT TO HELP PROTECT AGAINST CORROSION.
4. THE GROUNDING SYSTEM SHALL BE TESTED USING THE FALL OF POTENTIAL METHOD TO ENSURE COMPLIANCE WITH THE SPECIFICATIONS AND THE NEC MINIMUM REQUIREMENTS.
5. ALL CONNECTIONS OF WIRE-TO-WIRE, WIRE-TO-ROD, AND WIRE-TO-STEEL SHALL BE MADE EXOTHERMICALLY USING APPROPRIATE MOLDS OR APPROVED CLAMPS.
6. IF NECESSARY, THE AUTHORITY HAVING JURISDICTION SHALL BE CALLED IN TO INSPECT THE INSTALLATION OF THE GROUNDING SYSTEM BEFORE IT IS BURIED OR COVERED.
7. THE GROUNDING SHOWN ON THESE DRAWINGS INCLUDE THE MINIMUM REQUIREMENTS. ALL THE REQUIREMENTS OF THE NEC ARTICLE 250 MUST BE MET.
8. METAL RACEWAYS FOR SERVICE CONDUCTORS AND EQUIPMENT SHALL BE GROUNDED. A METAL ELBOW THAT IS INSTALLED IN AN UNDERGROUND INSTALLATION OF RIGID NON-METALLIC CONDUIT AND IS ISOLATED FROM POSSIBLE CONTACT BY A MINIMUM COVER OF 18" TO ANY PART OF THE ELBOW SHALL NOT BE REQUIRED TO BE GROUNDED.
9. NON-CURRENT-CARRYING CONDUCTIVE MATERIALS, SUCH AS METAL CONDUIT, JUNCTION BOXES, ETC., ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE GROUNDED.
10. THE NON-CURRENT-CARRYING METAL PARTS OF SERVICE EQUIPMENT (RACEWAYS AND ENCLOSURES CONTAINING SERVICE CONDUCTORS, INCLUDING METER FITTINGS, BOXES, OR THE LIKE, INTERPOSED IN THE SERVICE RACEWAY OR ARMOR SHALL BE BONDED TOGETHER. BONDING SHALL APPLY AT EACH END AND TO ALL INTERVENING RACEWAYS, BOXES, AND ENCLOSURES BETWEEN THE SERVICE EQUIPMENT AND THE GROUNDING ELECTRODE. METHODS OF BONDING SHALL INCLUDE EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS, CONNECTIONS UTILIZING THREADED COUPLINGS OR THREADED BOSSES ON ENCLOSURES WHERE MADE UP WRENCH-TIGHT, OTHER APPROVED DEVICES, SUCH AS BONDING-TYPE LOCKNUTS AND BUSHINGS
11. NONCONDUCTIVE COATINGS (SUCH AS PAINT, LACQUER, AND ENAMEL) ON EQUIPMENT TO BE GROUNDED SHALL BE REMOVED FROM THREADS AND OTHER CONTACT SURFACES TO ENSURE GOOD ELECTRICAL CONTINUITY OR BE CONNECTED BY MEANS OF FITTINGS DESIGNED SO AS TO MAKE SUCH REMOVAL UNNECESSARY.
12. WHERE THE TRANSFORMER SUPPLYING THE SERVICE IS LOCATED OUTSIDE THE BUILDING, AT LEAST ONE ADDITIONAL GROUNDING CONNECTION SHALL BE MADE FROM THE GROUNDED SERVICE CONDUCTOR TO A GROUNDING ELECTRODE, EITHER AT THE TRANSFORMER OR ELSEWHERE OUTSIDE THE BUILDING.
13. FOR A GROUNDED SYSTEM, AN UN-SPLICED MAIN BONDING JUMPER SHALL BE USED TO CONNECT THE EQUIPMENT GROUNDING CONDUCTOR(S) AND THE SERVICE-DISCONNECT ENCLOSURE TO THE GROUNDED CONDUCTOR OF THE SYSTEM MAIN BONDING JUMPERS SHALL BE OF COPPER OR OTHER CORROSION-RESISTANT MATERIAL. A MAIN BONDING JUMPER SHALL BE A WIRE, BUS, SCREW, OR SIMILAR SUITABLE CONDUCTOR. THE MAIN BONDING JUMPER SHALL NOT BE SMALLER THAN THE SIZES SHOWN IN TABLE 250.66 OF THE NEC FOR GROUNDING ELECTRODE CONDUCTORS.
14. METAL RACEWAYS, CABLE TRAYS, ENCLOSURES, FRAMES, FITTINGS, AND OTHER METAL NON-CURRENT-CARRYING PARTS THAT ARE TO SERVE AS GROUNDING CONDUCTORS, WITH OR WITHOUT THE USE OF SUPPLEMENTARY EQUIPMENT GROUNDING CONDUCTORS, SHALL BE EFFECTIVELY BONDED WHERE NECESSARY TO ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY FAULT CURRENT LIKELY TO BE IMPOSED ON THEM.
15. EXPOSED NON-CURRENT-CARRYING METAL PARTS OF FIXED EQUIPMENT LIKELY TO BECOME ENERGIZED SHALL BE GROUNDED UNDER ANY OF THE FOLLOWING CONDITIONS:
   - 15.1. WHERE WITHIN' 8' VERTICALLY OR 5' HORIZONTALLY OF GROUND OR GROUNDED METAL OBJECTS AND SUBJECT TO CONTACT BY PERSONS
   - 15.2. WHERE LOCATED IN A WET OR DAMP LOCATION AND NOT ISOLATED
   - 15.3. WHERE IN ELECTRICAL CONTACT WITH METAL
   - 15.4. WHERE SUPPLIED BY A METAL-CLAD, METAL-SHEATHED, METAL-RACEWAY, OR OTHER WIRING METHOD THAT PROVIDES AN EQUIPMENT GROUND
   - 15.5. WHERE EQUIPMENT OPERATES WITH ANY TERMINAL AT OVER 150 VOLTS TO GROUND
16. ALL GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE ROUTED TO ENSURE SHORTEST POSSIBLE CONDUCTOR LENGTH.
17. BONDING JUMPERS MEETING THE OTHER REQUIREMENTS OF THIS ARTICLE SHALL BE USED AROUND CONCENTRIC OR ECCENTRIC KNOCKOUTS THAT ARE PUNCHED OR OTHERWISE FORMED SO AS TO IMPAIR THE ELECTRICAL CONNECTION TO GROUND. STANDARD LOCKNUTS OR BUSHINGS SHALL NOT BE THE SOLE MEANS FOR THE BONDING REQUIRED BY THIS SECTION.
18. TRANSFORMERS SHALL BE GROUNDED IN ACCORDANCE WITH NEC TABLE 250.66.

# FIRE ALARM NOTES

1. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES OF MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURE LOCATION FOR THE LIFE OF THE SYSTEM.
2. THE FIRE ALARM CONTROL PANEL CIRCUIT BREAKER SHALL BE MARKED WITH RED PAINT, AND SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT." THE LOCATION OF THE CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL.
3. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW MUST FLASH IN SYNCHRONIZATION.
4. CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEMS SECONDARY POWER SOURCE LOAD CALCULATIONS PER NFPA 72 4.4.1.5.3.
5. CONTRACTOR SHALL PROVIDE A STORAGE BATTERY DEDICATED TO THE FIRE ALARM SYSTEM PER NFPA 72 4.4.1.5.
6. FIRE ALARM CONTRACTOR TO PROVIDE & WIRE ALL REQUIRED DUCT SMOKE DETECTORS. MECHANICAL TO MOUNT DETECTOR.
7. COORDINATE LOCATION OF FIRE ALARM ANNUNCIATOR PANEL WITH FIRE MARSHAL.
8. PROVIDE 120V CIRCUIT TO ALL SMOKE DETECTOR. REFER TO PANEL SCHEDULE FOR RESERVED BREAKER.
9. PROVIDE TAMPER & FLOW SWITCHES AS REQUIRED. COORDINATE WITH FIRE PROTECTION DRAWINGS & CONTRACTOR FOR EXACT QUANTITY & LOCATIONS.


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CONSULTANTS NAME:

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DRAWING NAME

NOTES - ELECTRICAL

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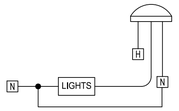
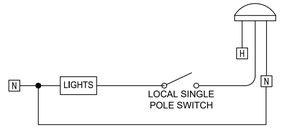
APPROVED BY:
DRAWING NUMBER:

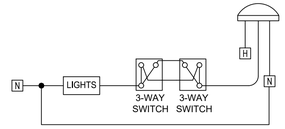
E0.08



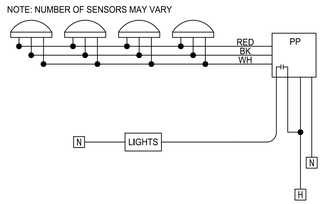

## 1 LINE VOLTAGE SENSOR



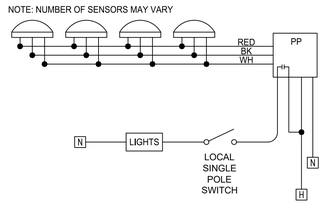

## 2 LINE VOLTAGE SENSOR W/ SINGLE SWITCHING



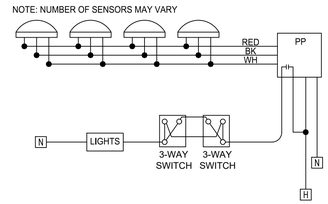

## 3 LINE VOLTAGE SENSOR W/ 3-WAY SWITCHING



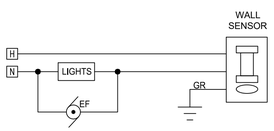

## 4 LOW VOLTAGE SENSORS W/ POWER PACK



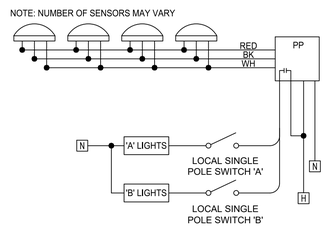

## 5 LOW VOLTAGE SENSORS W/ POWER PACK, SWITCH



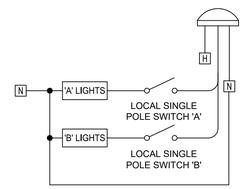

## 6 LOW VOLTAGE SENSORS W/ POWER PACK, 3-WAY



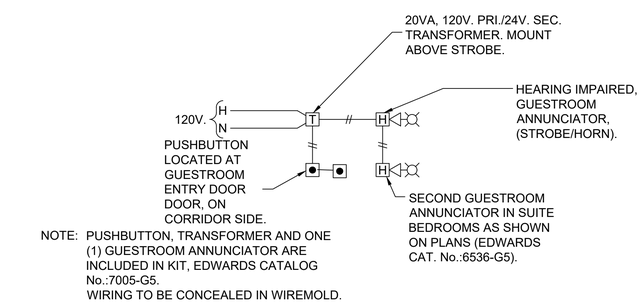

## 7 WALL SWITCH SENSOR W/ EXHAUST FAN (OPTIONAL)




## 8 LOW VOLTAGE SENSORS W/ POWER PACK, A/B SWITCHING




## 9 LINE VOLTAGE SENSOR W/ A/B SWITCHING

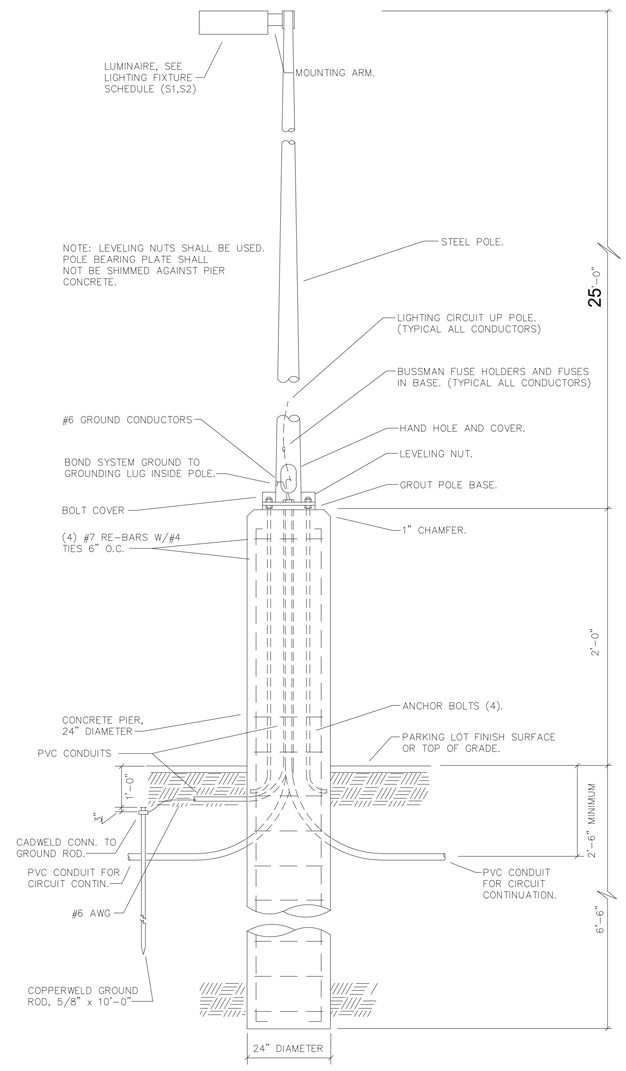



NOTE: PUSHBUTTON, TRANSFORMER AND ONE (1) GUESTROOM ANNUNCIATOR ARE INCLUDED IN KIT, EDWARDS CATALOG No.:7005-G5.
WIRING TO BE CONCEALED IN WIREMOLD.

## 10 HEARING IMPAIRED DOORBELL WIRING DIAGRAM

NOTE:

POLE FOUNDATION SHALL BE PER MANUFACTURER'S RECOMMENDED DESIGN STANDARDS.




## 11 EXTERIOR LIGHT POLE DETAIL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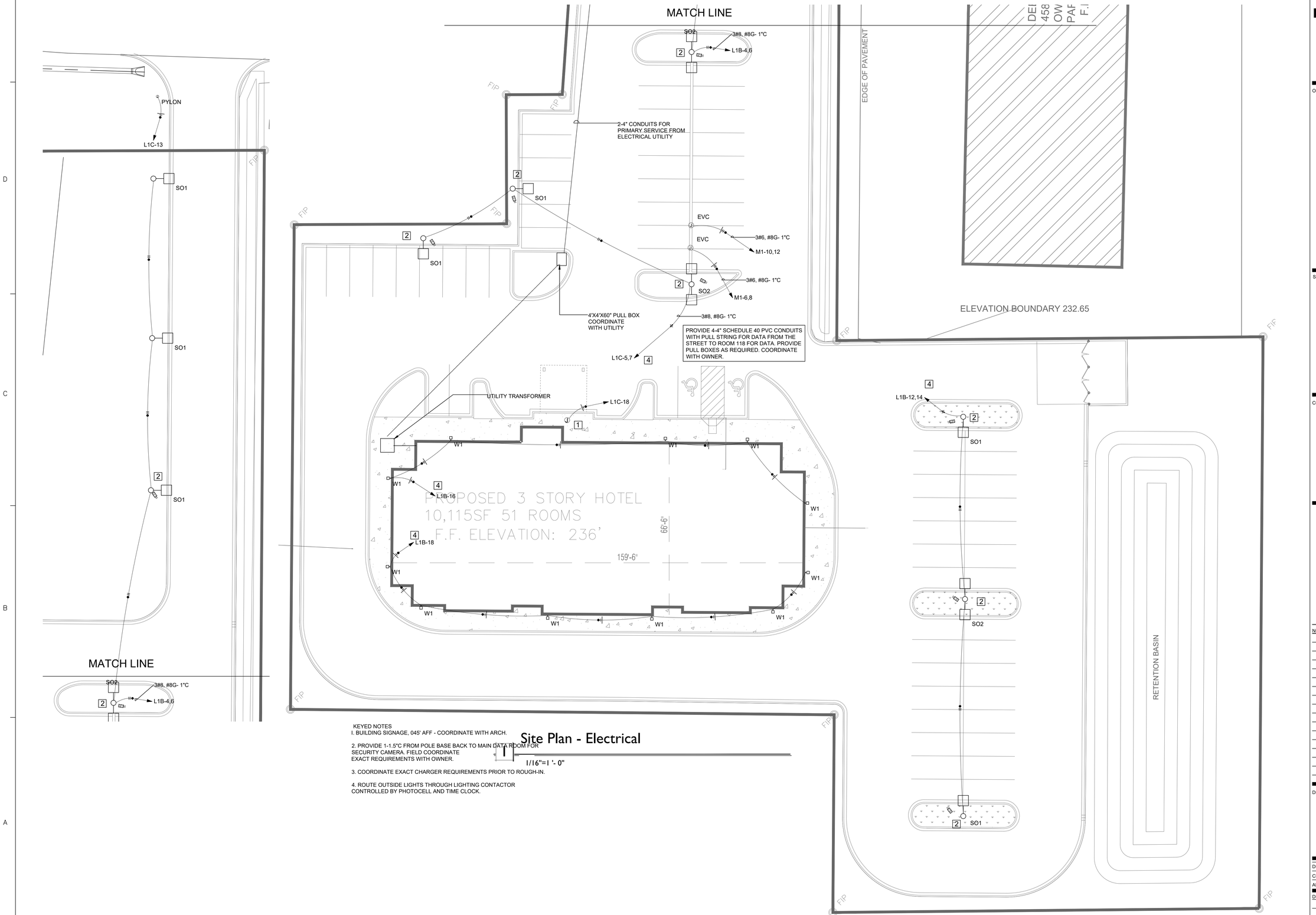
DRAWING NUMBER:

E0.09




KEYED NOTES

1. BUILDING SIGNAGE, 045' AFF - COORDINATE WITH ARCH.

2. PROVIDE 1-1.5"C FROM POLE BASE BACK TO MAIN DATA ROOM FOR SECURITY CAMERA. FIELD COORDINATE EXACT REQUIREMENTS WITH OWNER.

3. COORDINATE EXACT CHARGER REQUIREMENTS PRIOR TO ROUGH-IN.

4. ROUTE OUTSIDE LIGHTS THROUGH LIGHTING CONTACTOR CONTROLLED BY PHOTOCELL AND TIME CLOCK.

## Site Plan - Electrical

1/16"=1 '- 0"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SITE PLAN- ELECTRICAL

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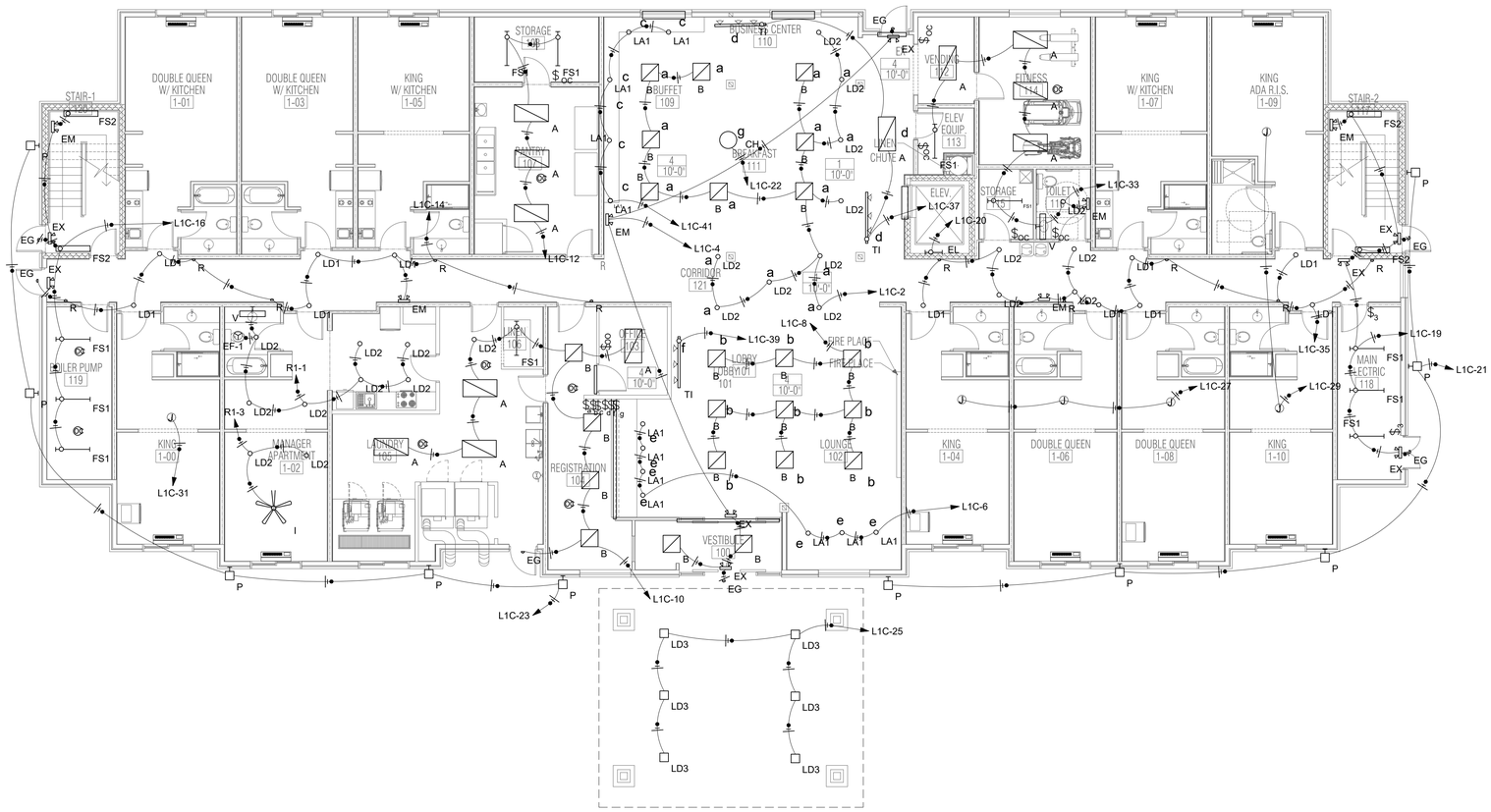
DRAWING NUMBER:

E102




## 1 First Floor Plan - Electrical - Lighting

1/8"=1'- 0"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DRAWING NAME

FIRST FLOOR PLAN-ELECTRICAL-LIGHTING

DRAWN BY:

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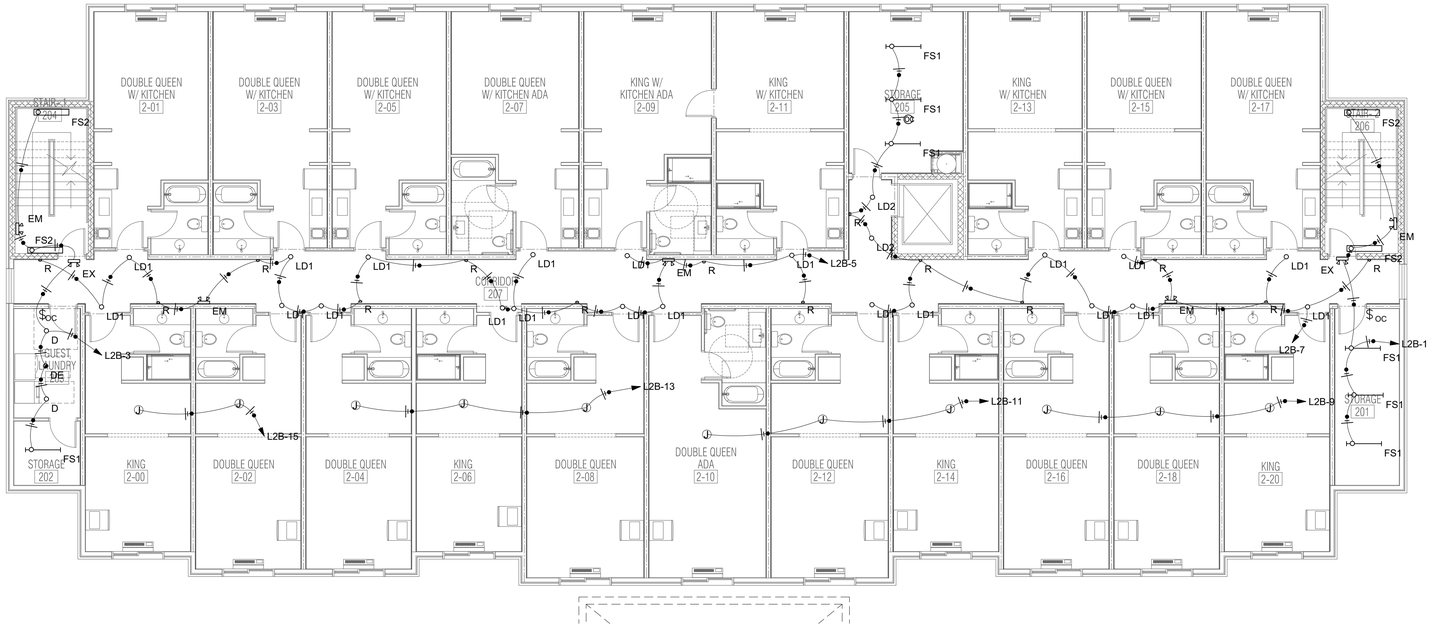
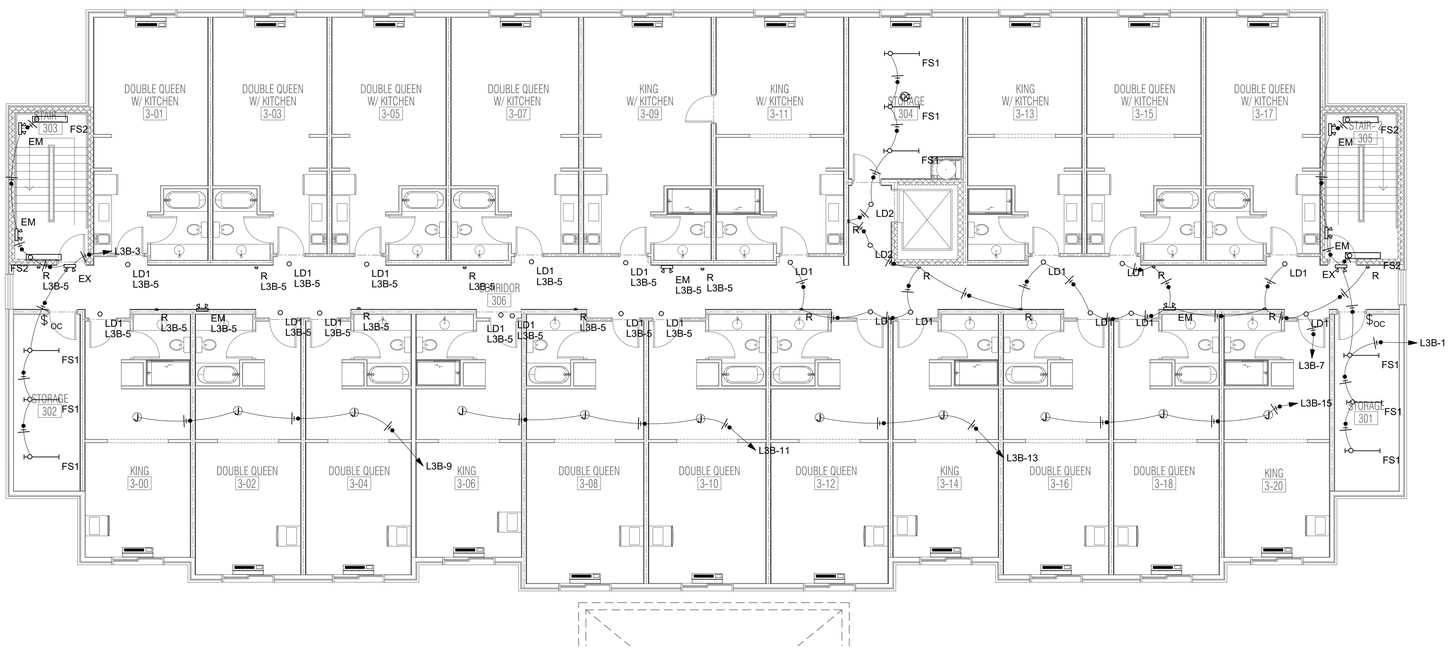
APPROVED BY:

DRAWING NUMBER:

E201




1 Second Floor Plan - Electrical - Lighting
1/8"=1 '- 0"




2 Third Floor Plan - Electrical - Lighting
1/8"=1 '- 0"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SECOND & THIRD FLOOR PLAN- ELECTRICAL-LIGHTING

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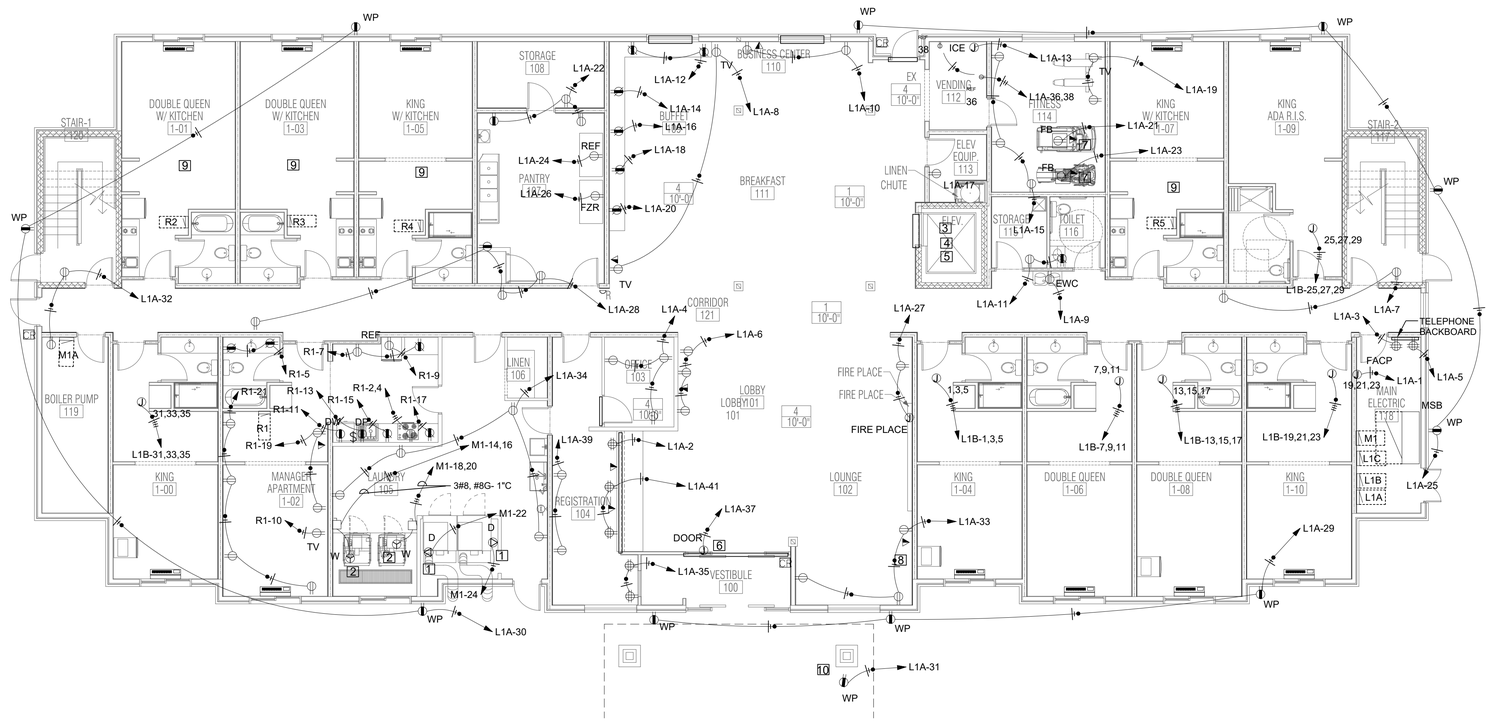
E202




# 1 First Floor Plan - Electrical - Power

1/8"=1 '- 0"

□ KEYED NOTES

1. PROVIDE RECEPTACLES FOR DRYER, VERIFY EXACT PLUG CONFIGURATION WITH ACTUAL DRYER PURCHASED.
2. PROVIDE NEMA 6-20R RECEPTACLE FOR WASHER. VERIFY EXACT PLUG CONFIGURATION WITH ACTUAL WASHER PURCHASED.
3. DEVICES MOUNTED IN ELEVATOR PIT PER NEC 620.24.
4. DISCONNECTING MEANS FOR CONNECTION TO ELEVATOR CAB LIGHTS. PROVIDE FUSIBLE DISCONNECT SWITCH, OR CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 62D,53, PROVIDE DEDICATED BRANCH CIRCUIT,
5. 600V, NEMA 1, FUSIBLE DISCONNECT. SIZE DISCONNECT AND FUSE ACCORDINGLY TO ELEVATOR MANUFACTUER DATA. PROVIDE SHUNT TRIP OPERATOR PER ANSI/ASME ELEVATOR CODE AND NEC 620.51 TO REMOVE POWER FROM ELEVATOR SUPPLY CONDUCTORS UPON ACTIVATION OF PRE-ACTION SPRINKLER FIRE ALARM DEVICES, COORDINATE WITH SPRINKLER AND ELEVATOR CONTRACTORS.
6. J-BOX ABOVE CEILING FOR POWER TO AUTOMATIC DOORS. PROVIDE CONTROL POWER CONDUIT TO RECEPTION DESK FOR INTERIOR VESTIBULE DOORS ONLY.
7. COORDINATE EXERCISE ROOM FLOOR BOXES LOCATIONS FOR EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN. EQUAL TO STEEL CITY 664 SERIES WITH CODE REQUIRED SEPARATION FOR POWER AND DATA,
8. HOUSE PHONE LOCATION, COORDINATE HEIGHT AND REQUIREMENTS WITH OWNER.
9. SUITE WITH LOAD CENTER - SEE E5XX SERIES FOR MORE INFORMATION,
10. PROVIDE OUTLET AT CEILING OF PORTE COCHERE FOR SEASONAL LIGHTING, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.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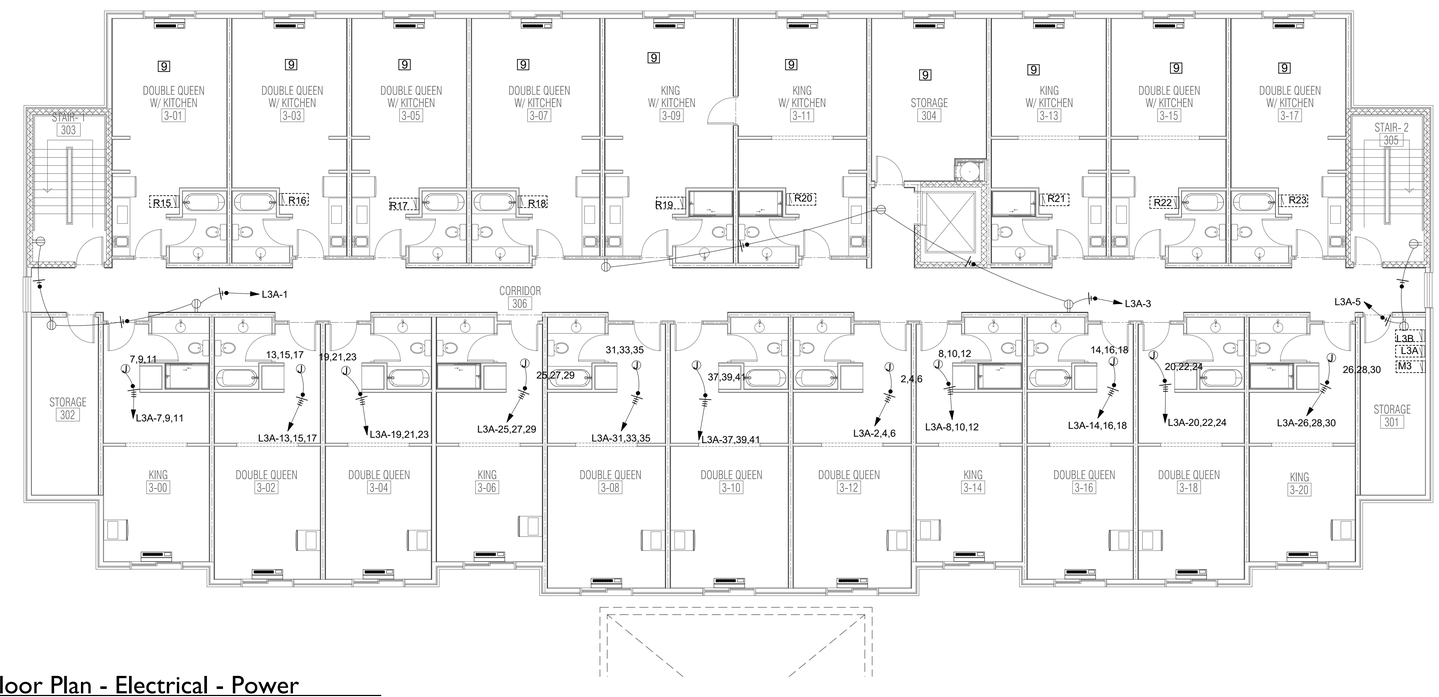
## 1 Second Plan - Electrical - Power

1/8"=1 '- 0"




## 2 Third Floor Plan - Electrical - Power

1/8"=1 '- 0"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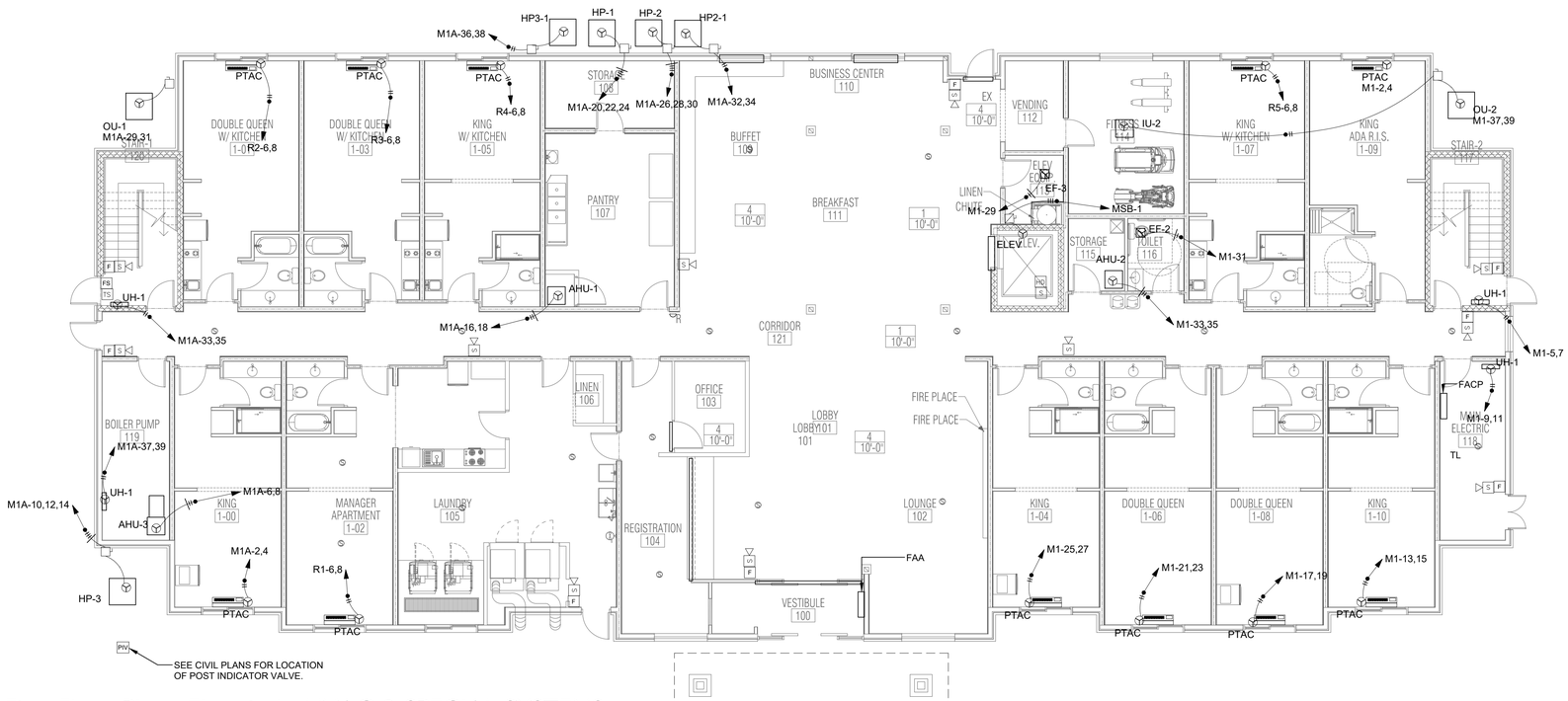
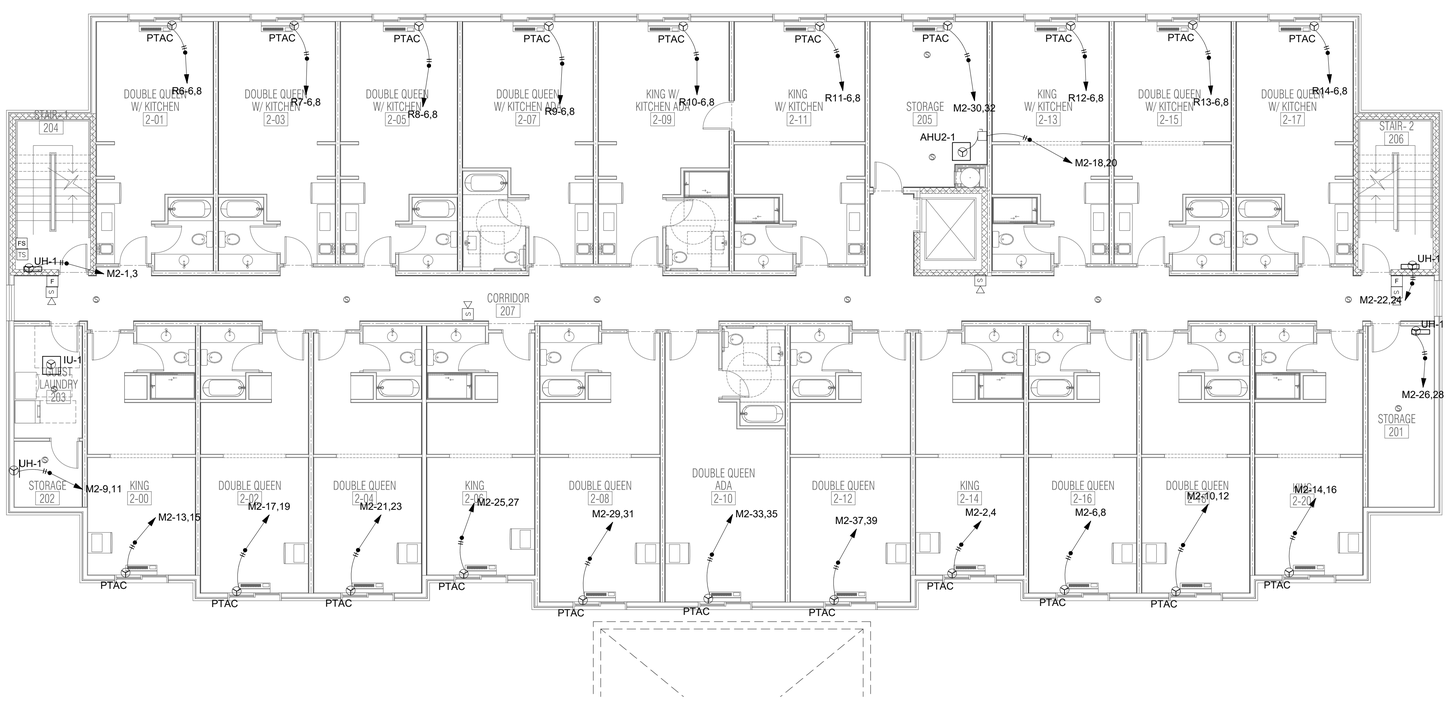



## 1 First Floor Plan - Electrical - HVAC & SPECIAL SYSTEMS

1/8"=1 '- 0"




## 2 Second Plan - Electrical - HVAC & SPECIAL SYSTEMS

1/8"=1 '- 0"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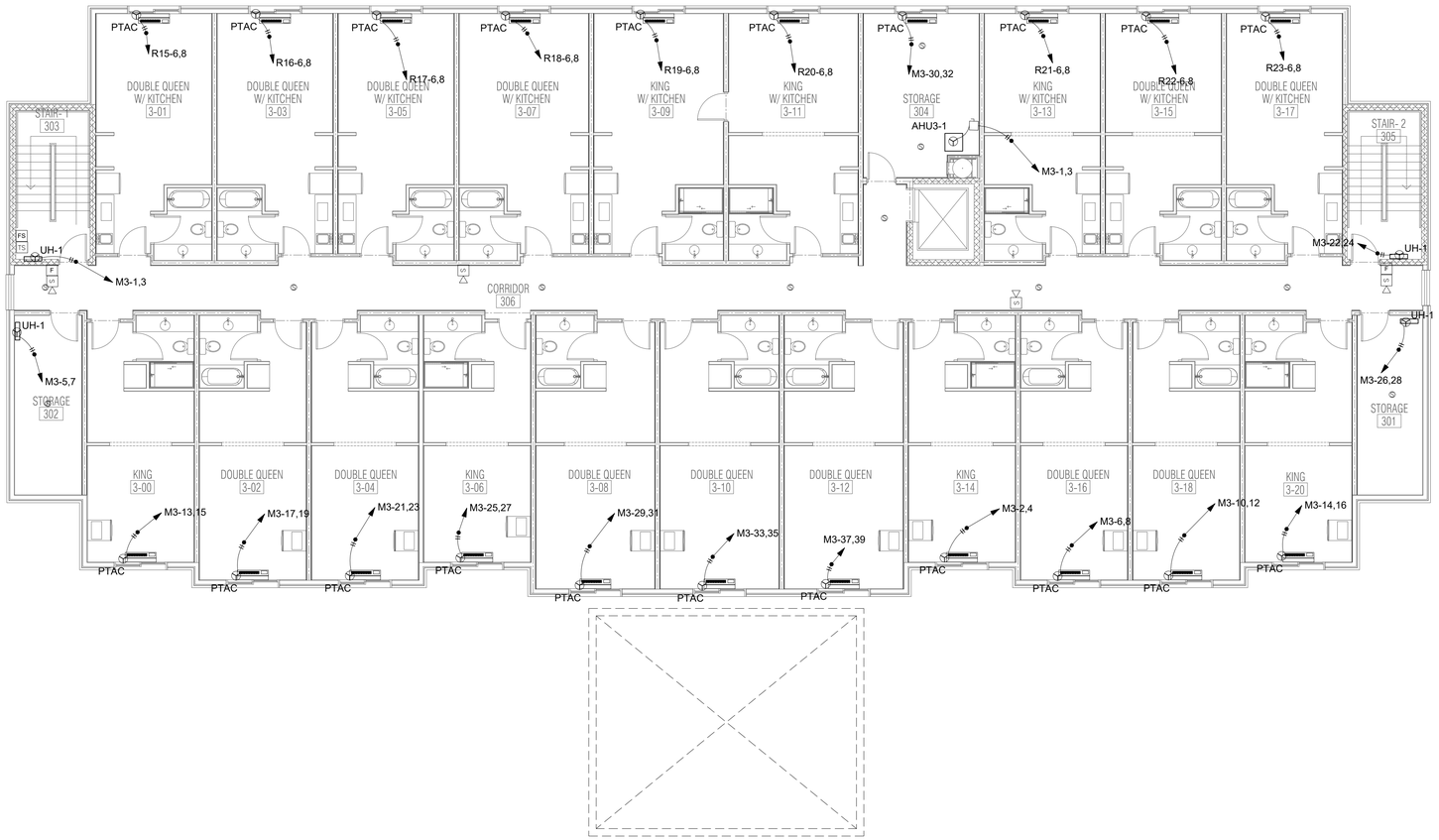


1 Third Floor Plan - Electrical - HVAC & SPECIAL SYSTEMS

1/8"=1 '- 0"


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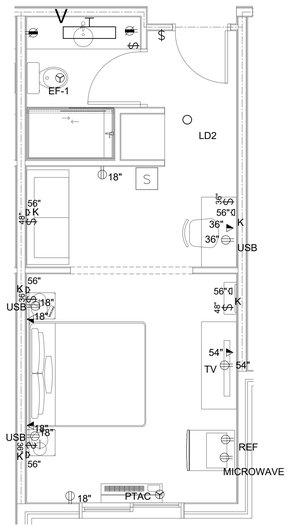


## 1 KING K - ELECTRICAL
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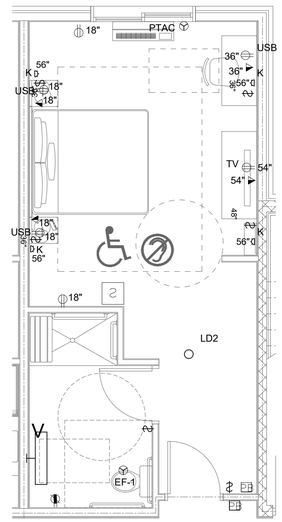
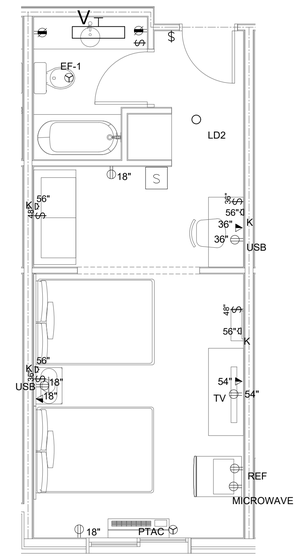
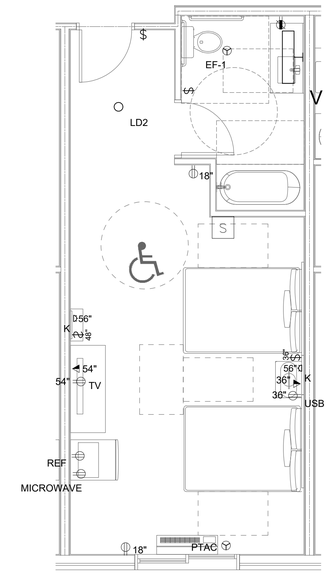



## 2 KING RLS - ELECTRICAL
1/4"=1 '- 0"




## 3 DOUBLE QUEEN - ELECTRICAL
1/4"=1 '- 0"




## 4 DOUBLE QUEEN ADA - ELECTRICAL
1/4"=1 '- 0"

### GENERAL NOTES:

A. THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.

B. PROVIDE PULL BOXES AS REQUIRED TO PROPERLY INSTALL THE RACEWAYS AND CIRCUITS INDICATED.

C. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL ROOM INTERIOR ELEVATIONS. COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.

D. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH ROT-PROOF PULL-TAPE, LABELED AT EACH END. ALL CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS WHERE TERMINATED OPEN-ENDED.

E. COORDINATE ALL WIRING DEVICE LOCATIONS SHOWN AT MILLWORK LOCATIONS WITH THE MILLWORK CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO ANY ROUGH-IN OR INSTALLATION. ALL WIRING DEVICES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND SHALL NOT BE CONCEALED.

F. SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS.

G. REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITY OF ALL MECHANICAL EQUIPMENT AND FIRE/SMOKE AND/OR SMOKE DAMPERS. LOCATIONS AND QUANTITY SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE AND MAY NOT REFLECT FINAL POSITION OR QUANTITY.

H. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT. WHERE EQUIPMENT IS SHOWN ON THE MECHANICAL PLANS, BUT NOT SHOWN ON THE ELECTRICAL PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE EQUIPMENT BASED ON EQUIPMENT REQUIREMENTS AND INCLUDE ALL COSTS IN THE BASE BID.

I. ROUGH-IN AND CONNECTION TO EQUIPMENT SHALL BE PER THE EQUIPMENT MANUFACUTERER'S REQUIREMENTS AND THE NATIONAL ELECTRICAL CODE. PROVDE STRUCTURAL SUPPORTS AS REQUIRED FOR ROUGHT-IN REQUIREMENTS WITH THE MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN.

J. PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING ANY CORD AND PLUG SETS FOR EQUIPMENT NOT PROVIDED WITH IT (WHETHER SPECIFICALLY NOTED OR NOT). COORDINATE ALL WORK WITH THE EQUIPMENT SUPPLIER AND OWNER; AND VERIFY ALL ROUGH-IN LOCATIONS AND REQUIREMENTS PRIOR TO ANY ROUGH-IN.

K. PROVIDE UNSWITCHED HOT TO EXIT SIGNS AND EMERGENCY FIXTURES.

### GENERAL GUESTROOM NOTES:

A. COORDINATE EXACT LOCATION FOR MOUNTING OF RECEPTACLES, SWITCHES AND DATA OUTLETS WITH INTERIOR ELEVATIONS.

B. REFER TO OVERALL ELECTRICAL FLOOR PLANS FOR PANEL AND BRANCH CIRCUIT DESIGNATIONS AND ADDITIONAL ELECTRICAL REQUIREMENTS.

C. BATHROOM VANITY LIGHT SWITCH SHALL BE PILOT LIGHT SWITCH ILLUMINATED WHEN TURNED OFF.

D. VISUAL SIGNAL DEVICES AND DOORBELL SYSTEMS ARE ONLY TO BE PROVIDED IN HEARING IMPAIRED GUESTROOMS. THEY ARE NOT REQUIRED IN OTHER GUESTROOMS.

E. FOR ALL SWITCHED RECEPTACLES, TOP OUTLET ON DUPLEX RECEPTACLE SHALL BE SWITCHED, BOTTOM OUTLET ON DUPLEX SHALL NOT BE SWITCHED.

GUEST ROOM NOTES
I. SPLIT WIRED RECEPTACLES (SWITCHED) SHALL BE LOWER OUTLET SWITCHED, UPPER SHALL BE NON-SWITCHED, WHERE INDICATED.
2. THERMOSTAT JUNCTION BOX AND CONTROL CONDUIT TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. T-STAT TO BE INSTALLED BY MECHANICAL CONTRACTOR.
3, WIRING DEVICE OUTLET BOXES SHALL NOT BE INSTALLED BACK TO BACK ON SEPARATION WALL BETWEEN GUESTROOMS. SHIFT DEVICE LOCATION ON ONE GUESTROOMS 6" TO AVOID CONFLICT AND INSTALL FIREPROOF PUTTY PADS PER CODE AROUND BOXES MAINTAIN FIRE RATING OF WALL.
4. HEARING IMPAIRED GUESTROOMS REQUIRE MINI-HORN/STROBE LIGHT UNITS IN LIEU OF SPEAKER BASE ON SMOKE DETECTOR. THEY SHALL ALSO REQUIRE ADDITIONAL STROBE LIGHTS IN BATHS AND BEDROOMS. SEE FIRE ALARM DEVICE FLOOR PLANS FOR ADDITIONAL INFORMATION.
5. ELECTRICAL CONTRACTOR SHALL INSTALL RECEPTACLES AND TV, DATA/PHONE OUTLETS UNDER COMMON COVER PLATE WHERE POSSIBLE. PROVIDE AND INSTALL DIVIDERS AS REQUIRED FOR CABLE/POWER SEPARATION,
6. IN ACCESSIBLE ROOMS, CONTRACTOR SHALL ADJUST DEVICE LOCATIONS AS REQUIRED TO MEET ADA REQUIREMENTS.
7. 0UESTROOM ANNUNCIATOR (TRANSFORMER, AUDI0/VISUAL DEVICE, PUSHBUTTON) REQUIRED IN HEARING IMPAIRED AND ACCESSIBLE GUESTROOMS ONLY. SEE DETAIL.
8, CONTRACTOR SHALL CONTACT LOCAL TELEPHONE COMPANY PROVIDER TO OBTAIN REQUIREMENTS FOR THE HEARING IMPAIRED ROOMS, CONTRACTOR SHALL THEN INSTALL ALL REQUIRED EQUIPMENT.
9. SEE ELECTRICAL GENERAL FOR ADDITIONAL INFORMATION.
10, PTAC UNIT 20AMP, 208V/IPH CIRCUITS SHALL BE t:12 WIRE. WHERE RUNS EXCEED 100' PROVIDE 10# WIRE IN LIEU OF #12 WIRE.
11, ALL GUEST ROOMS SHALL BE PROVIDED WITH ARC-FAULT CIRCUIT INTERRUPTER PROTECTION PER LOCAL ELECTRICAL CODE.
12. ALL GUEST ROOM AND GUEST SUITES NONLOCKING-TYPE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES PER NEC 406, 12(8),
13, ALL SMOKE DETECTORS IN GUESTROOMS SHALL BE WALL MOUNTED AND HAVE A SPEAKER BASE,
14, ALL SMOKE DETECTORS IN GUESTROOMS SHALL BE COMBINATION SMOKE AND CARBON MONOXIDE DETECTORS.
15, GC TO COORDINATE EXACT AND LOCATION OF ALL LIGHT FIXTURES WITH OWNER, GC TO ENSURE ALL ADA HEIGHTS ARE MET,

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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

ROOM DETAIL-ELECTRICAL

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

E501

## R-QQ

ROOM
MOUNTING FLUSH
FED FROM UTILITY
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 100
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | GFCI RECEPTACLE | 0.36 | | 2 | 20/1 | EF-1, LIGHTING | 0.272 | |
| 3 | 20/1 | RECEPTACLE | | 0.9 | 4 | 20/1 | HOT PLATE | | 1.8 |
| 5 | 20/1 | RECEPTACLE | 0.75 | | 6 | 20/2 | PTAC | 1.56 | |
| 7 | 20/1 | EXHAUST HHOD | | 0.8 | 8 | \| | | | 1.56 |
| 9 | 20/1 | APPLIANCE | 1.5 | | 10 | 20/1 | SPACE | 0 | |
| 11 | 20/1 | APPLIANCE | | 1.5 | 12 | 20/1 | SPACE | | 0 |
| 13 | 20/1 | SPACE | 0 | | 14 | 20/1 | SPACE | 0 | |
| 15 | 20/1 | SPACE | | 0 | 16 | 20/1 | SPACE | | 0 |
| 17 | 20/1 | SPACE | 0 | | 18 | 20/1 | SPACE | 0 | |
| 19 | 20/1 | SPACE | | 0 | 20 | 20/1 | SPACE | | 0 |
| 21 | 20/1 | SPACE | 0 | | 22 | 20/1 | SPACE | 0 | |
| 23 | 20/1 | SPACE | | 0 | 24 | 20/1 | SPACE | | 0 |
| | | | | | | | TOTAL CONNECTED KVA BY PHASE | 4.44 | 6.56 |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LIGHTING | 0.972 | 1.22 | (125%) |
| DWELLING UNIT COOKING | 1.8 | 1.44 | |
| RANGES | 1 | | |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LARGEST MOTOR | 3.12 | 0.78 | (25%) |
| MOTORS | 0.1 | 0.1 | (100%) |
| RECEPTACLES | 2.01 | 2.01 | (50%>10) |
| HEATING | 3.12 | 3.12 | (100%) |
| COOLING | 3.12 | 0 | (0%) |
| TOTAL LOAD | | 11.7 | |
| BALANCED LOAD | | 56.1 A | |

## R-K

ROOM
MOUNTING FLUSH
FED FROM UTILITY
NOTE

VOLTS 208/120V 2P 3W
BUS AMPS 100
NEUTRAL 100%

AIC 22,000
MAIN BKR MLO
LUGS STANDARD

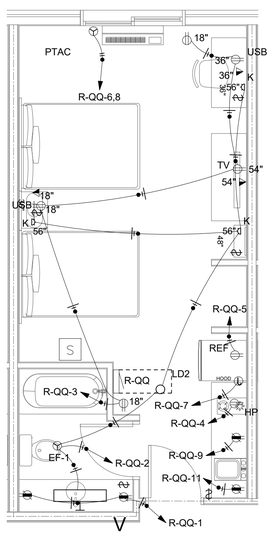
| CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B | CKT # | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA A | LOAD KVA B |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | GFCI RECEPTACLE | 0.36 | | 2 | 20/1 | HOT PLATE | 1.8 | |
| 3 | 20/1 | EF-1, LIGHTING | | 0.244 | 4 | 20/2 | PTAC | | 1.56 |
| 5 | 20/1 | RECEPTACLE | 0.9 | | 6 | \| | | 1.56 | |
| 7 | 20/1 | RECEPTACLE | | 0.75 | 8 | 20/1 | SPACE | | 0 |
| 9 | 20/1 | EXHAUST HHOD | 0.8 | | 10 | 20/1 | SPACE | 0 | |
| 11 | 20/1 | APPLIANCE | | 1.5 | 12 | 20/1 | SPACE | | 0 |
| 13 | 20/1 | APPLIANCE | 1.5 | | 14 | 20/1 | SPACE | 0 | |
| 15 | 20/1 | SPACE | | 0 | 16 | 20/1 | SPACE | | 0 |
| 17 | 20/1 | SPACE | 0 | | 18 | 20/1 | SPACE | 0 | |
| 19 | 20/1 | SPACE | | 0 | 20 | 20/1 | SPACE | | 0 |
| 21 | 20/1 | SPACE | 0 | | 22 | 20/1 | SPACE | 0 | |
| 23 | 20/1 | SPACE | | 0 | 24 | 20/1 | SPACE | | 0 |
| | | | | | | | TOTAL CONNECTED KVA BY PHASE | 6.92 | 4.05 |

| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LIGHTING | 0.944 | 1.18 | (125%) |
| DWELLING UNIT COOKING | 1.8 | 1.44 | |
| RANGES | 1 | | |

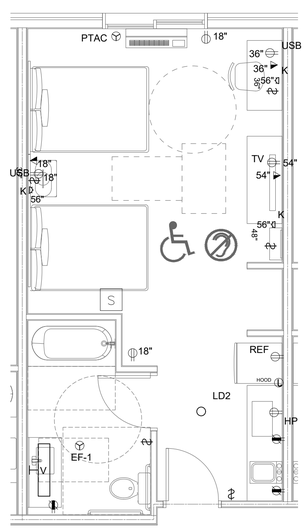
| | CONN KVA | CALC KVA | |
|---|---|---|---|
| LARGEST MOTOR | 3.12 | 0.78 | (25%) |
| MOTORS | 0.1 | 0.1 | (100%) |
| RECEPTACLES | 2.01 | 2.01 | (50%>10) |
| HEATING | 3.12 | 3.12 | (100%) |
| COOLING | 3.12 | 0 | (0%) |
| TOTAL LOAD | | 11.6 | |
| BALANCED LOAD | | 55.9 A | |

TYPICAL PANEL BOARD SCHEDULE FOR SUITES WITH KITCHENS

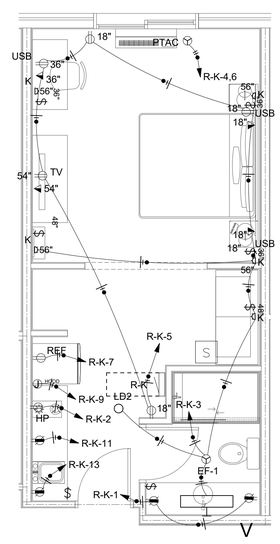
SEE SHEET E502 FOR NOTES



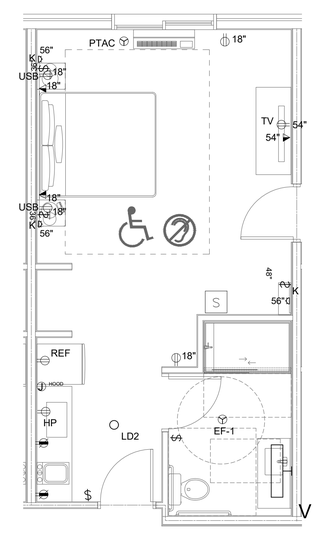

1 DOUBLE QUEEN WITH KITCHEN - ELECTRICAL
1/4"=1'-0"




2 DOUBLE QUEEN ADA WITH KITCHEN - ELECTRICAL
1/4"=1'-0"




3 KING WITH KITCHEN - ELECTRICAL
1/4"=1'-0"




4 KING ADA WITH KITCHEN - ELECTRICAL
1/4"=1'-0"

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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/24

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3887 ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

ROOM DETIAL-ELECTRICAL

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

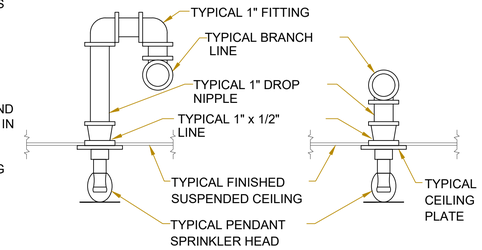
E502

# FIRE PROTECTION NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE 100% HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE SPRINKLER SYSTEM AS SPECIFIED, SERVING THE RENOVATED AREA. THE SPRINKLER SYSTEM SHALL BE DESIGNED TO NFPA-13R .
2. CONTRACTOR SHALL USE THE FOLLOWING NFPA-13R OCCUPANCY CLASSIFICATIONS IN THE DESIGN OF AND CALCULATIONS FOR THE ALTERED AUTOMATIC SPRINKLER SYSTEM.
   CORRIDORS, OFFICES, HOTEL ROOMS, CONFERENCE ROOMS, ETC.: LIGHT HAZARD;
   STORAGE ROOMS, MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.: ORDINARY HAZARD GROUP 1.
3. SPRINKLER AREA EXCEPTIONS AND ADJUSTMENTS SHALL BE USED FOR THIS BUILDING PER NFPA-13R
4. ALL A/S HEADS SHOWN IN SPACES WITHOUT CEILINGS SHALL BE INSTALLED WITHIN 12" OF UNDERSIDE OF FLOOR ABOVE AND IN ACCORDANCE WITH NFPA-13. ADDITIONAL HEADS MAY BE REQUIRED, AND SHALL BE PROVIDED AROUND OBSTRUCTIONS IN ACCORDANCE WITH NFPA-13
5. CONTRACTOR SHALL INSTALL SPRINKLER HEADS IN CENTER OF 24" X 24" CEILING TILES AND AT 12" INTERVALS ALONG LONG AXIS OF 24" X 48" CEILING TILES. HEADS SHALL BE A MINIMUM OF 12" OFF OF CEILING TILE SUPPORT GRID
6. A/S SPRINKLER PIPING SHALL BE INSTALLED AS CLOSE TO STRUCTURE AS POSSIBLE. COORDINATE CEILING CLEARANCES WITH ALL OTHER TRADES PRIOR TO SYSTEM FABRICATION
7. ALL SYSTEMS SHALL BE INSTALLED TO MEET THE REQUIREMENTS OF NFPA, THESE DOCUMENTS, FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION. NO PART OR SECTION OF NFPA (ALL CHAPTERS) SHALL BE VIOLATED. WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE LESS STRINGENT THAN THE REQUIREMENTS OF THE INSURANCE UNDERWRITER, THE UNDERWRITER'S REQUIREMENTS SHALL TAKE PRECEDENCE
8. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, LOCAL WATER UTILITY, AND/OR THE LOCAL FIRE DEPARTMENT FOR THE PERFORMANCE OF A FLOW TEST IN ACCORDANCE WITH NFPA-13 REQUIREMENTS
9. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO FABRICATION OR INSTALLATION TO AVOID ANY PIPE ROUTING PROBLEMS OR OBSTRUCTIONS
10. PENETRATIONS THRU WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED PER CONTRACT DOCUMENTS
11. ALL NEW SPRINKLER PIPING SHALL BE SCH. 40 STEEL. THREADED, GROOVED, OR WELDED JOINTS AND FITTINGS MAY BE USED.FLEXIBLE SPRINKLER DROPS SERVING SPRINKLERS IN CEILINGS SHALL BE ALLOWED
12. ALL SYSTEM GAUGES AND VALVES TO BE ACCESSIBLE FOR OPERATION, INSPECTION, AND MAINTENANCE.
13. CPVC PIPING IS ALLOWED AS A PIPING ALTERNATE MATERIAL. SIZE AND ROUTE PER NFPA.

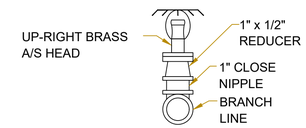
# LEGEND

| LINE TYPE | DESCRIPTION |
|---|---|
| A/S | AUTOMATIC SPRINKLER (A/S) |
| DRY | DRY PIPE A/S |
| FDC | FIRE DEPARTMENT CONNECTION |
| F | FIRE SUPPLY |

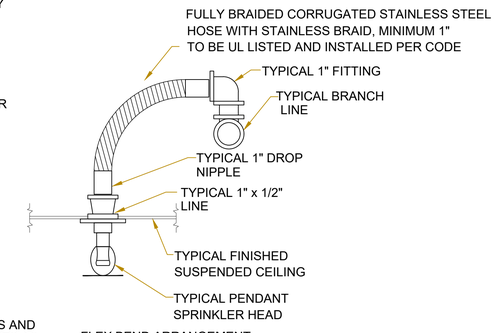



RETURN BEND ARRANGEMENT

STRAIGHT DROP ARRANGEMENT




UPRIGHT SPRINKLERS IN TYPICAL OPEN CEILING ARRANGEMENT




FLEX BEND ARRANGEMENT

NOTE:
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS, INCLUDING EXACT TYPES OF SPECIFIED AUTOMATIC SPRINKLER HEADS, REFER TO FLOOR PLANS FOR LOCATIONS OF DIFFERENT TYPES OF SPECIFIED A/S HEADS.

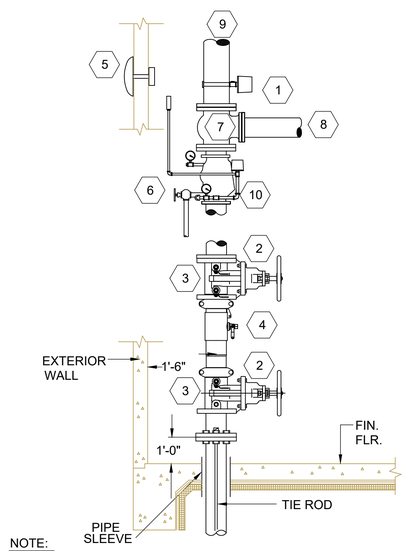
PROVIDE HANGERS AND SEISMIC RESTRAINTS AS REQUIRED BY NFPA-13

## 1 Sprinkler Head Detail
Not to Scale

## LEGEND - SPRINKLER HEADS

| SYMBOL | TEMP. | DESCRIPTION & REMARKS | K | CONN. |
|---|---|---|---|---|
| ✱ | VARIES | STANDARD COVERAGE QUICK RESPONSE BRASS UPRIGHT | 5.6 | 1/2" |
| ◎ | VARIES | STANDARD COVERAGE QUICK RESPONSE RECESSED PENDENT, CHROME FIN. | 5.6 | 1/2" |
| ◐ | VARIES | STANDARD COVERAGE QUICK RESPONSE RECESSED DRY SIDEWALL FACTORY CHROME FINISH | 5.6 | 1/2" |
| ▶ | VARIES | STANDARD COVERAGE QUICK RESPONSE HORIZONTAL SIDEWALL | 5.6 | 1/2" |

1. TEMPERATURE RATING IS MINIMUM RECOMMENDED. INSTALL HEADS WITH HIGHER RATINGS IN ACCORDANCE WITH NFPA-13 REQUIREMENTS WHERE HEADS ARE IN HIGH TEMPERATURE AREAS OR IN PROXIMITY OF HEAT SOURCES INCLUDING DIFFUSERS.
2. SPRINKLER HEADS IN ELEVATOR EQUIPMENT ROOMS AND ELEVATOR SHAFTS SHALL HAVE A TEMPERATURE RATING OF 212 °F.




KEYNOTES:

1. PRESSURE TYPE WATERFLOW SWITCH W/ TIME DELAY
2. OS&Y VALVE W/ TAMPER SWITCH
3. CONTROL VALVE
4. DOUBLE CHECK VALVE BACKFLOW PREVENTER - WATTS 757 OSY
5. WATER MOTOR GONG
6. 2" SYSTEM MAIN DRAIN VALVE PIPED TO OUTSIDE TERMINATING W/ 45° ELBOW AT GROUND LEVEL DISCHARGING TO SPLASHBLOCK.
7. TEE
8. TO FIRE DEPT. CONNECTION W/ CHECK VALVE AND BALL DRIP
9. WATER SUPPLY PIPE TO A/S ZONES.
10. ALARM CHECK VALVE

NOTE:
1. POSITION OS&Y VALVE SUPERVISORY DEVICE TO SEND SIGNAL WITHIN 2 TURNS OF VALVE WHEEL FROM THE OPEN POSITION.

## 2 Fire Riser Detail
Not to Scale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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/14

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3687 ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

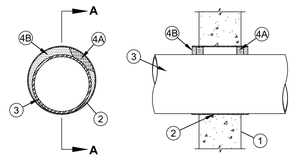
NOTES - FIRE PROTECTION

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

F101

## System No. W-J-1099

F Rating - 2 Hr
T Ratings - 0, 1/4, 3/4 and 1 Hr (See Item 3)




**Section A-A**

1. Wall Assembly - Min 6 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks* . Max diam of opening is 2 in. larger than OD of through penetrant.

   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve - Cylindrical sleeve fabricated from 0.0125 in thick (30 gauge) galv sheet steel and having a min 2 in. lap along the longitudinal seam. Length of the sleeve to be equal to or max 6 in. greater than the thickness of the wall. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the opening and releasing the coil to let it uncoil against the circular opening in concrete. The ends of the steel sleeve shall be flush with or extend a max 3 in. beyond each surface of the wall.

   As an alternate, steel sleeve may consist of nom 14 in. diam (or smaller) Schedule 5 (or heavier) steel pipe sleeve cast or grouted into concrete. The ends of the steel sleeve shall be flush with or extend a max 3 in. beyond each surface of the wall.
3. Through Penetrant - One metallic pipe, conduit or tube to be installed eccentrically or concentrically within the firestop system. The annular space between the pipe, conduit or tube and the steel sleeve shall be min 0 in. (point contact) to max 2 in. Pipe, conduit or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:
   A. Steel Pipe - Nom 12 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Iron Pipe - Nom 12 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit - Nom 6 in. diam (or smaller) rigid steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT) or nom 4 in. diam (or smaller) flexible steel conduit.
   D. Copper Pipe - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
   E Copper Tube - Nom 4 in. diam (or smaller) Type L (or heavier) copper tube.

| | | |
|---|---|---|
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| | | |
| | | |
| | | |


STI
**Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876**


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3A. **Through Penetrating Product* - Flexible Metal Piping -** As an alternate to Item 3, one nom 2 in. diam (or smaller) steel flexible metal pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tube and the steel sleeve shall be min 0 in. (point contact) to max 2 in. Pipe to be rigidly supported on both sides of the wall assembly. **When flexible metal piping is used, T Rating is 1 hr.**

**OMEGA FLEX INC**

**GASTITE, DIV OF TITEFLEX**

**WARD MFG L L C**

4. **Firestop System -** The firestop system consists of the following items:
   A. **Packing Material -** Min 1 in. thickness of min 4 pcf mineral wool batt insulation compressed and tightly packed into each end of steel sleeve. When steel sleeve projects more than 1 in. beyond wall surface, packing material thickness shall be increased to 2 in. Packing material recessed from each end of steel sleeve to accommodate fill material. When alternate steel pipe sleeve is used, packaging material may be omitted from the firestop system.
   B. **Fill, Void or Cavity Material* - Sealant -** Min 5/8 in. thickness of fill material applied within annulus, flush with each end of steel sleeve. At point contact location, min 1/4 in. diam bead of fill material applied at metallic pipe/steel sleeve interface on both surfaces of wall. Optionally, a min 1/4 in. diam bead of fill material shall be applied around the circumference of the steel sleeve at its egress from each side of the wall.

   **SPECIFIED TECHNOLOGIES INC** - SpecSeal LCI Sealant

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.


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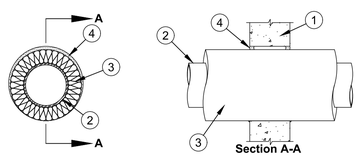
Created or Revised: January 23, 2014
(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com


## System No. W-J-5005

| ANSI/UL1479 (ASTM E814) | CAN/ULC S115 |
|---|---|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 1 Hr | FT Rating - 1 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Rating - 2 Hr |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 1 Hr |
| | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F - Less Than 1 CFM/sq ft |




**Section A-A**

1. Wall Assembly - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks* . Max diam of opening is 18 in. (457 mm).

   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants - One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
   D. Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Pipe Coverings* - One of the following types of pipe coverings shall be used:
   A. Pipe and Equipment Covering Materials* - Max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated through penetrant and periphery of opening shall be min 0 in. (continuous point contact) to max 1-1-/4 in. (38 mm).

   See Pipe and Equipment Covering - Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.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   B. Pipe Covering Materials* - Max 2 in. (51 mm) thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. (305 mm) OC. The annular space the between insulated through penetrant and periphery of opening shall be min 0 in. (continuous point contact) to max 1-1/4 in. (38 mm).

   IIG MINWOOL L L C - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc .
   C. Sheathing Material* - Used in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or butt tape.

   See Sheathing Materials - (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between insulated through penetrant and concrete, a min 3/8 in. (10 mm) bead of fill material shall be applied to the concrete insulated through penetrant interface on both sides of the wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.


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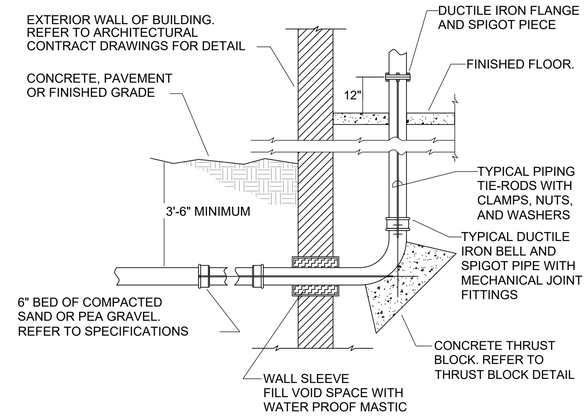
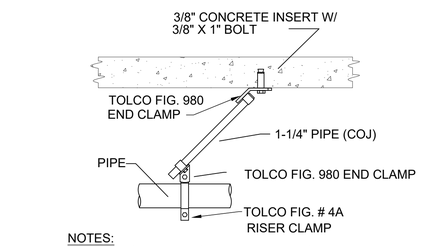
NOTE:
MATERIALS, ARRANGEMENT AND INSTALLATION SHALL MEET WITH FEDERAL, STATE AND LOCAL CODE REQUIREMENTS, INCLUDING N.F.P.A. AND OWNER'S INSURANCE UNDERWRITERS GUIDELINES



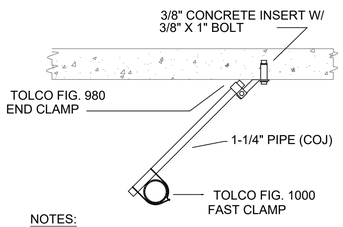

NOTE:
REFER TO SPECIFICATIONS FOR REQUIRED AND SPECIFIED PIPING MATERIALS. INSTALLATION OF FIRE SERVICE MAIN AND SPRINKLER PIPING (INCLUDING SYSTEMS) SHALL BE DONE BY A STATE AND LOCAL CERTIFIED AND LICENSED AUTOMATIC SPRINKLER CONTRACTOR.

### 3 Fire Main Entrance Detail
Not to Scale



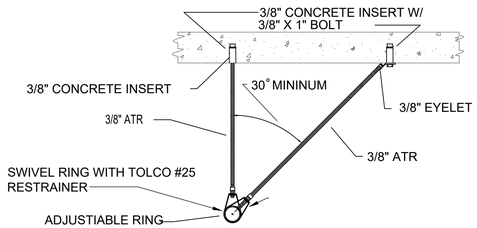

NOTES:
1. FOR 8" & 6" PIPE USE 1/2" MATERIALS IN LIEU OF 3/8"
2. SEISMIC BRACING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA-13

### 4 Longitudinal Sway Brace Detail
Not to Scale




NOTES:
1. FOR 8" & 6" PIPE USE 1/2" MATERIALS IN LIEU OF 3/8"
2. SEISMIC BRACING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA-13

### 5 Lateral Sway Brace Detail
Not to Scale




NOTES:
1. FOR 8" & 6" PIPE USE 1/2" MATERIALS IN LIEU OF 3/8"
2. SEISMIC BRACING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA-13

### 6 Automatic Sprinkler Branchline End Restraint Detail
Not to Scale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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

CONSULTANTS NAME:

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

DETAILS - FIRE PROTECTION

DRAWN BY:

CHECKED BY:

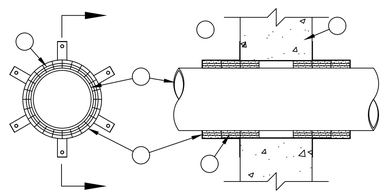
APPROVED BY:

DRAWING NUMBER:

F002

System No. W-J-2060

F Rating - 4 Hr
T Rating - 3 Hr



1. Wall Assembly - Min 7-5/8 in. (194 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3 ) concrete wall assembly. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. (203 mm).

   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant - One nonmetallic pipe to be centered within the firestop system. A nom annular space of 11 to 13/16 in. (18 to 21 mm) is required within the firestop system. Pipe to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 soild or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping system.
   C. Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   D. Rigid Nonmetallic Conduit+ - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70)
   E. Flame Retardant Polypropylene (FRPP) Pipe - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.



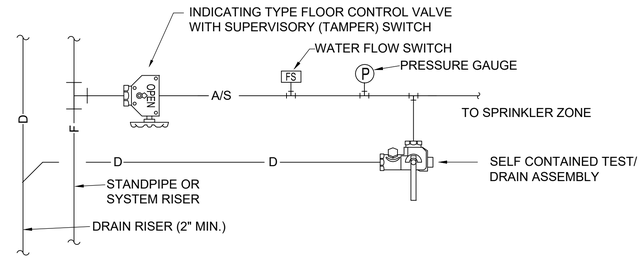
3. Firestop System - The firestop system shall consist of the following:
   A. Metallic Sleeve - Cylindrical sleeve fabricated from 0.031 in. (0.8 mm) thick (No. 22 MSG) galv sheet steel and having a 2 in. (51 mm) lap along longitudinal seam. Length of sleeve to be 4 in. (102 mm) greater than the thickness of the wall. Sleeve installed by coiling the sheet steel to a diam less than the through opening , inserting the coil through the openings and releasing the coil to let it uncoil against the through opening. The ends of the sleeve shall extend 2 in. (51 mm) beyond each surface of the wall. The metallic sleeve shall be coiled tightly around wrap strip layers (Item 3C) and temporarily secured with aluminum foil tape (Item 3B) until installation and attachment of the steel collars (Item 3E).
   B. Aluminum Foil Tape - (Not shown)-Nom 3 mil (0.08 mm) thick pressure sensitive aluminum foil tape wrapped around the circumference of the outer pipe with a min 1 in. (25 mm) wide overlap along its perimeter joint. Foil tape shall begin at the outer edge of the metallic sleeve (Item 3A) and extend 3 in. (76 mm) beyond the sleeve edge on both sides of the wall.
   C. Fill, Void or Cavity Materials*-Wrap Strip - Nom 1/8 or 3/16 in. (3.2 or 4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips. Three stacks of three layers are individually wrapped around the outer pipe with the ends butted and held in place with tape. Butted ends in successive layers may be aligned or offset. The first stack of wrap strips shall be slid along the through penetrant into sleeve such that edges of wrap strips are recessed 2 in. (51 mm) from the edge of the sleeve. The second stack of wrap strips shall be slid along the through penetrant into the sleeve such that the edges of the wrap strips abut the first stack. The third stack shall be installed such that the edges of the wrap strips abut the second stack. Three stacks of wrap strips are required on each side of the wall.

      SPECIFIED TECHNOLOGIES INC - SpecSeal BLU Wrap Strip or SpecSeal BLU2 Wrap Strip
   D. Fill Void or Cavity Materials*- Sealant - (Not shown)-Min 1/2 in. (13 mm) thickness of fill material applied within the annulus between the metallic sleeve and the periphery of the opening on both sides of the wall.

      SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant
   E. Steel Collar - Collar fabricated from coils of precut 0.029 in. (0.7 mm) thick (No. 22 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 4 in. (102 mm) deep with a min of six 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 3/8 in. (10 mm) wide and located opposite the anchor tabs, are bent inward 90 deg to retain the wrap strips. Steel collar wrapped around wrap strips and ends of sleeve with a min 1 in. (25 mm) wide overlap along its perimeter joint. Steel collar tightened and secured to steel sleeve with four No. 8 by 3/8 in. (10 mm) long sheet metal screws symmetrically located around the perimeter of the steel collar. Steel collars installed on both sides of the wall assembly.

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.





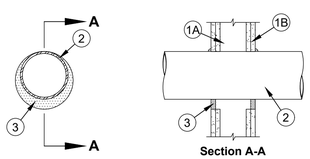

NOTES:

1. BUTTERFLY OR BALL TYPE INDICATING VALVES SHALL BE INSTALLED SO THAT INDICATOR IS READILY VISIBLE. ALL GAUGES SHALL BE POSITIONED SO DISPLAYS ARE ALSO VISIBLE.
2. PRESSURE REGULATING VALVES, UPSTREAM PRESSURE GAUGE, AND PRESSURE RELIEF VALVE SHALL BE INSTALLED ON CONNECTIONS SERVING THE BASEMENT, FIRST FLOOR, SECOND FLOOR, THIRD FLOOR, AND FOURTH FLOOR.

2 ZONE CONNECTION VALVE DETAIL
Not To Scale

**System No. W-L-1049**

| ANSI/UL1479 (ASTM E814) | CAN/ULC S115 |
|---|---|
| F Ratings - 1 and 2 Hr (See Item 1) | F Rating - 1 and 2 Hr (See Item 1) |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Rating - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F - Less Than 1 CFM/sq ft |







**Section A-A**

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

1A. Metallic Sleeve - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.



2. Through Penetrant - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). For maximum 16 in. (406 mm) diam (or smaller) pipes, annular space shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
   D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 18426
THOMAS NEEDHAM
1/31/14

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION
BUILDING SYSTEMS GROUP
NO. 3687
ARKANSAS ENGINEER

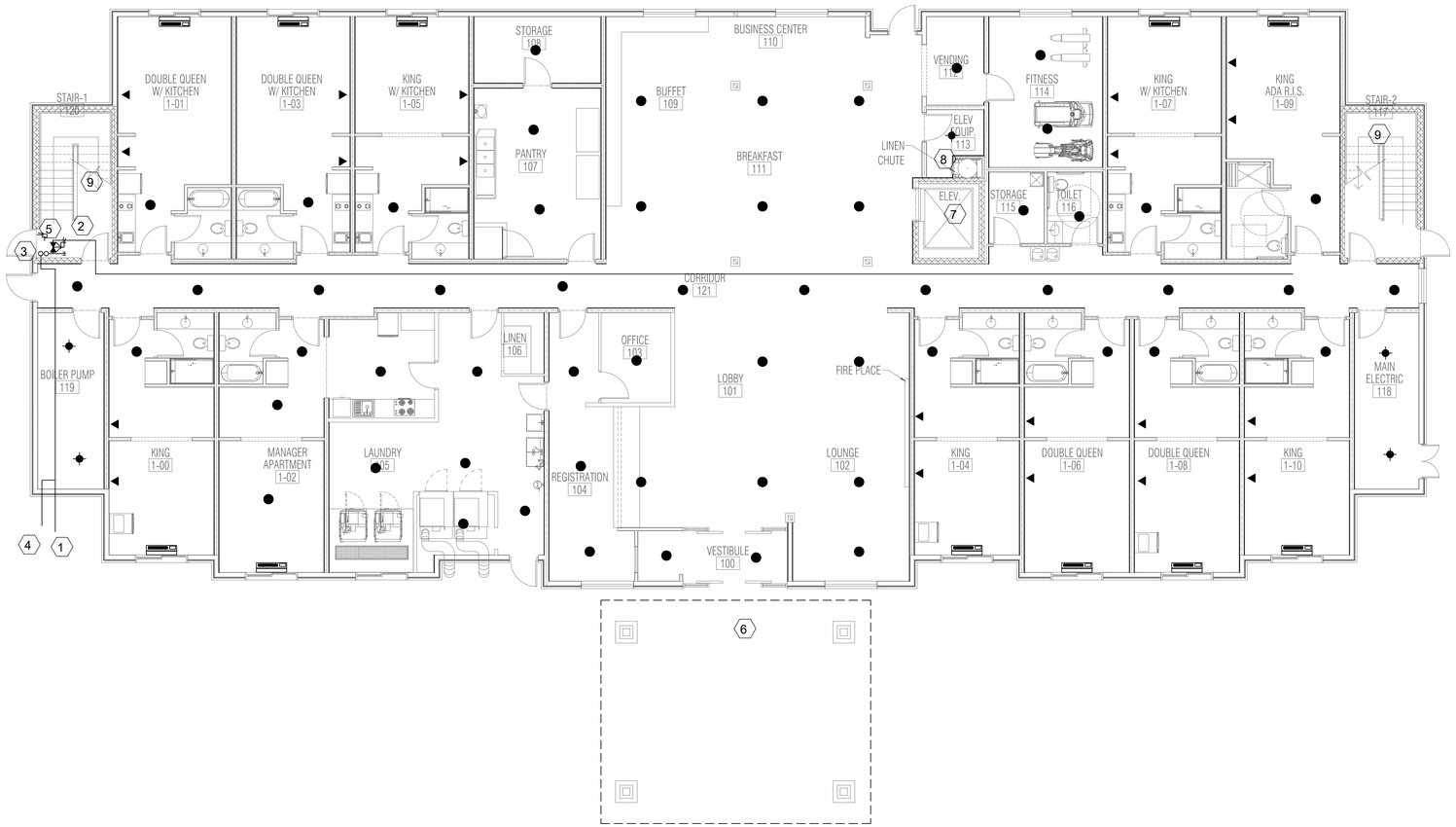
| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

DETAILS - FIRE PROTECTION

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

F003




1 First Floor Plan - Fire Protection
1/8"=1 '- 0"

1. EXTEND 6" FROM SITE BELOW GRADE TO MECH ROOM AND ROUTE TO BFP. PROVIDE & INSTALL YARD TYPE PIV ON SITE WITHIN 100' OF FIRE HYDRANT
2. ZONE VALVE WITH TAMPER AND FLOW SWITCH CONNECTED TO FA
3. FD HOSE CONNECTION
4. ROUTE 4" FDC TO YARD TYPE FDC ON SITE. SEE CIVIL
5. TEST DRAIN & 6" STAND PIPE
6. PROVIDE AND INSTALL DRYPIPE VALVE IN MECH ROOM. LINE OVER TO CANOPY TO DRY TYPE SPRINKLER HEADS IN CANOPY PER NFPA.
7. SPRINKLER SYSTEM SERVING ELEVATOR PITS & EQUIPMENT ROOMS SHALL BE INSTALLED PER NFPA. PROVIDE INDICATING TYPE VALVES/TAMPER SWITCHES/FLOW SWITCHES AS REQUIRED
8. PROVIDE SPRINKLER COVERAGE IN LAUNDRY SHUTE PER NFPA
9. PROVIDE SPRINKLER PROTECTION IN EACH STAIRWELL PER NFPA

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AT

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SEAL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 18426
THOMAS NEEDHAM
1/31/14

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION
BUILDING SYSTEMS GROUP
NO. 3687
ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

FLOOR PLAN - FIRE

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

F101

1 Second Floor Plan - Fire Protection
1/8"=1'- 0"

1. PROVIDE SPRINKLER PROTECTION IN EACH STAIRWELL PER NFPA
2. ZONE VALVE WITH TAMPER AND FLOW SWITCH CONNECTED TO FA
3. FD HOSE CONNECTION
4. PROVIDE SPRINKLER COVERAGE IN LAUNDRY SHUTE PER NFPA
5. TEST DRAIN & 6" STAND PIPE
6. SPRINKLER SYSTEM SERVING ELEVATOR PITS & EQUIPMENT ROOMS SHALL BE INSTALLED PER NFPA. PROVIDE INDICATING TYPE VALVES/TAMPER SWITCHES/FLOW SWITCHES AS REQUIRED

2 Third Floor Plan - Fire Protection
1/8"=1'- 0"


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OWNER NAME AND ADDRESS

INDEPENDENT HOTEL

AT

HIGHWAY 140, OSCEOLA, AR

SEAL

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 18426 THOMAS NEEDHAM 1/31/14

CONSULTANTS NAME:

CERTIFICATE OF AUTHORIZATION BUILDING SYSTEMS GROUP NO. 3687 ARKANSAS ENGINEER

| NO. | DATE | ISSUE \ REVISION |
|---|---|---|

DRAWING NAME

FLOOR PLAN - FIRE

DRAWN BY:
CHECKED BY:
APPROVED BY:
DRAWING NUMBER:

F102