

1-HOUR FIRE RATED WALL NOTES:

Construction requirements for 1-Hour Fire Rated Wall Types "F" & "J":

A. 1-Hour fire rated wall types "F" & "J" shall comply with the following 2006 IBC Section:

- Section 104.1, Exception 5 & 5.1: "In occupancies of Groups R-2 and R-3 as applicable in Section 1012, both provided with a Class C roof covering, the exterior wall shall be permitted to terminate at the roof sheathing or deck in Type III, IV and V construction provided:

5.1 The roof sheathing or deck is constructed of approved non-combustible materials or of fire-retardant-treated wood, for a distance of 4 feet."

(Note: The 1-hour fire rating will be maintained up to the bottom of the roof deck for the roof over the Switchgear/Compressor Enclosure only.)

B. 1-Hour fire rated wall types "F" & "J" shall comply with IBC 2006 Section 1023.1:

- Section 1023.1, Exception: "Where the penetrating items are steel, ferrous or copper pipes or steel conduits, the annular space between the penetrating item and the fire-resistive-rated wall shall be permitted to be protected as follows:

1. In concrete or masonry walls where the penetrating item is a maximum 6-inch nominal diameter and the opening is a maximum 144 square inches, concrete, grout or mortar shall be permitted where installed the full thickness of the wall or the thickness required to maintain the fire-resistance rating."

C. 1-Hour fire rated wall types "F" & "J" shall comply with IBC 2006 Sections 106.8 & 106.10 & 116:

- Sect. 116.52, Exception: "Fire dampers are not required at penetrations of fire barriers where any of the following apply:

3. Such walls are penetrated by ducted HVAC systems, have a required fire-resistance rating of 1 hour or less, are in areas of other than Group H and are in building equipped with an automatic sprinkler system in accordance with Section 903.3.11 or 903.3.12. For the purposes of this exception, a ducted HVAC system shall be a duct system for conveying supply, return or exhaust air as part of the structure's HVAC system. Such a duct system shall be constructed of sheet steel not less than 26 gage thickness and shall be continuous from the air-handling appliance or equipment to the air outlet and inlet terminals."

D. 1-Hour fire rated wall types "F" & "J" shall comply with IBC 2006 Section 120.1, Table 120.1(2)

1-Hour fire rated wall types shall be constructed as per Table 120.1 (2) "Concrete Masonry Units", Item Number 3-12 "Expanded clay, shale or slate." The minimum finished thickness face-to-face to attain a 1-hour fire rating shall be 2.6 inches as per Table 120.1(2).

(Note: The actual face-to-face thickness provided by wall types F & J is 1-5/8").

- The concrete masonry units shall be ASTM C90, Grade N, Type II, hollow, load bearing, light-weight, with all cells solid grouted.

WALL TYPE NOTES

- INTERIOR WALLS SHALL RECEIVE CAULKING AROUND THE PERIMETER OF THE PARTITION, UNDER THE EDGE OF EACH BASE LAYER OF GYPSUM PANEL AND AROUND ALL PENETRATIONS INCLUDING ELECTRICAL BOXES WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT.
- ALL EXTERIOR WALLS ABOVE THE ROOFLINE SHALL RECEIVE R-14 RIGID BOARD INSULATION AT INTERIOR FACE OF CMU WALL AND STUCCO FINISH AT EXTERIOR EXPOSED FACES ABOVE ROOF LINE.
- THE METAL STUD FURRING AT THE EAST WALL OF THE CAPTAIN'S BATH #18 SHALL RECEIVE R-13 BATT INSULATION.
- USE 1-1/2" VENT PIPING TO ENSURE THAT THE VENT PIPING FITS INSIDE THE 2" Z-FURRING SPACE OF THE WEST WALL OF KITCHEN #13. ELBOW JOINTS FOR 1-1/2" VENT PIPING WHICH OCCUR INSIDE THE 2" WALL FURRING SHALL BE PLACED BELOW THE BASE CABINETRY COUNTERTOP LINE, THE ELBOW JOINTS ARE WIDER THAN THE 2" WALL FURRING AND WILL NEED TO BE HIDDEN INSIDE THE BASE CABINETRY SPACE.
- USE I.C.B.O. EVALUATION REPORT NO. 4849P AS THE STRUCTURAL DESIGN FOR THE INTERIOR PARTITIONS, CEILING JOISTS, SOFFITS, CEILING ASSEMBLIES, CONNECTIONS, ETC.

WALL TYPES

(SEE FINISH SCHEDULE & SPECIFICATIONS FOR FINISHES)

- * GENERAL MASONRY NOTE: SOLID GROUT EACH CELL IN ALL MASONRY WALLS.
- A** EXTERIOR WALL - 8" X 8" X 16" CMU WALL W/ STUCCO FINISH • EXTERIOR SIDE OF WALL. (PROVIDE 3-5/8" - 20 GA. MTL. STUD FURRING • 16" O.C. W/ RIGID INSULATION UP TO BOTTOM OF ROOF DECK AT INTERIOR FACE OF WALL. NOTE: RIR #03 TO HAVE CERAMIC TILE ON CMU • SOUTH WALL. SEE NOTES RE. CONSTRUCTION OF HC SHOWER WALLS ON WALL TYPE "B" ALSO. PROVIDE 1/2" X 1/2" X 1/2" CMU - 6 COURSES ABOVE TOP OF WALL FOOTING AT WALLS WHERE CMU MAINSCOT OCCURS (SEE EXTERIOR ELEVATIONS).
- B** INTERIOR WALL - 8" X 8" X 16" CMU WALL W/ 5/8" TYPE "X" GYP. BD. O/ 2" - 25 GA. Z-FURRING CHANNELS • 16" O.C. AT BOTH SIDES OF WALL. (PROVIDE 3-5/8" - 20 GA. MTL. STUD FURRING • PLUMBING FIXTURE SIDE OF WALL. WHERE PLUMBING FIXTURES OR RECESSED BATHROOM ACCESSORIES ARE SHOWN) USE WATER RETARDANT GYP. BD. AT ALL UET AREA WALLS W/ PLUMBING FIXTURES & W/OUT C. TILE. NOTE: SEE SHEETS A81 & A92 FOR ALL WALLS W/ RECESSED WALL MTD BATH ACCESSORIES. NOTE: ALL WALLS WITH CERAMIC TILE FINISH SHALL HAVE CEMENTITIOUS BACKER BD. BEHIND TILE (SEE SPECIFICATIONS FOR TYPES).
- C** INTERIOR WALL - 8" X 8" X 16" CMU WALL W/ 5/8" TYPE "X" GYP. BD. O/ 2" - 25 GA. Z-FURRING • 16" O.C. W/ RIGID INSULATION FROM FLOOR TO METAL DECK ON DORM SIDE OF WALL. NOTE: ALL MTL. STUD WALLS WITH CERAMIC TILE FINISH SHALL HAVE CEMENTITIOUS BACKER BD. BEHIND TILE (SEE SPECIFICATIONS FOR TYPES).
- E** CMU WALL - 8" X 8" X 16" CMU, SEE SHEET A6 FOR WALL FINISH.
- F** EXTERIOR WALL - 8" X 8" X 16" CMU WALL W/ STUCCO FINISH • EXTERIOR SIDE OF WALL.
- F** EXTERIOR WALL (1-HOUR FIRE RATED) - 8" X 8" X 16" CMU WALL W/ STUCCO FINISH • EXTERIOR SIDE OF WALL ABOVE THE SWITCHGEAR ENCLOSURE ROOFLINE & PAINTED CMU BELOW THE ROOFLINE. WALL SHALL COMPLY WITH 1-HOUR FIRE RATED WALL NOTES SHOWN ON THIS SHEET.
- G** INTERIOR PARTITION WALL - 3/8" X 1/2" X 1/4" STEEL STUDS • 16" O.C. W/ 5/8" TYPE "X" GYP. BD. BOTH SIDES OF WALL. (PROVIDE WATER RETARDANT GYP. BD. AT ALL UET AREA WALLS W/ PLUMBING FIXTURES & W/OUT C. TILE & INSULATE WHERE INDICATED BY INSULATION SYMBOL IN WALLS ON FLOOR PLAN (SEE DTL. 8/10.1 FOR FRAMING AT BASE OF WALLS) (NOTE: PROVIDE 3" - 20 GA. MTL. STUDS • 16" O.C. • BACK WALLS OF ALARM STATIONS AND AT FIREWALL IN APPARATUS BAY FOR ELECTRICAL PANELS. NOTE: STAGGER STUDS AT WEST WALL OF KITCHEN #13 AS NEEDED TO ACHIEVE WALL THICKNESS SHOWN ON DIMENSIONED FLOOR PLAN. NOTE: ALL WALLS WITH CERAMIC TILE FINISH SHALL HAVE CEMENTITIOUS BACKER BD. BEHIND TILE (SEE SPECIFICATIONS FOR TYPES).
- H** EXTERIOR WALL - 3/8" X 1/2" X 1/4" STEEL STUDS • 16" O.C. W/ STUCCO FINISH • EXTERIOR SIDE OF WALL. (NOTE: BOX FRAME STUDS TO ACHIEVE THICKNESS OF WALL/COLUMN, WHERE OCCURS)
- I** EXTERIOR PATIO WALL - 8" X 8" X 16" INTEGRAL COLOR SPLIT FACE CMU WALL (BBQ SIDE OF WALL SHALL BE SMOOTH W/ PAINTED FINISH). (NOTE: SEE SPECIFICATIONS & EXTERIOR FINISH SCHEDULE ON SHEET A41 FOR INFO. ON EXPOSED CMU. (NOTE: ALL EXPOSED CMU SHALL RECEIVE TOOLED JOINTS PER SPEC'S)
- J** EXTERIOR WALL - 8" X 8" X 16" SPLIT FACE, INTEGRAL COLOR CMU AT ALL EXPOSED EXTERIOR FACES (INTERIOR SIDE OF CMU SHALL BE SMOOTH FACE). (NOTE: SEE SPECIFICATIONS & EXTERIOR FINISH SCHEDULE ON SHEET A41 FOR INFORMATION ON EXPOSED CMU. (NOTE: ALL EXPOSED CMU SHALL RECEIVE TOOLED JOINTS PER SPEC'S)
- J** EXTERIOR WALL (1-HOUR FIRE RATED) - 8" X 8" X 16" SPLIT FACE, INTEGRAL COLOR CMU WALL AT EXPOSED EXTERIOR FACES AND SMOOTH FACE CMU AT INTERIOR SIDE OF WALL. PROVIDE SPLIT FACE INTEGRAL COLOR CMU AT EXTERIOR SIDE OF WALL ABOVE SWITCHGEAR ENCLOSURE ROOFLINE AND SMOOTHFACE INTEGRAL COLOR CMU BELOW SWITCHGEAR ENCLOSURE ROOFLINE AT COMMON WALL BETWEEN SWITCHGEAR ENCLOSURE & TURNOUT LOCKER ROOM #16. NOTE: WALL SHALL COMPLY WITH 1-HOUR FIRE RATED WALL NOTES SHOWN ON THIS SHEET.
- K** 14" W EXTERIOR WALL - 3/8" THK. STL. PLATE O/ 3/8" THK. PLYWOOD O/ 3/8" STEEL STUDS • 16" O.C. STL. PLATE TO HAVE POWDER COATED FINISH, COLOR: "PLATINUM". (NOTE: BOX FRAME STUDS TO ACHIEVE 14" THICKNESS) PROVIDE SHOP DRAWING & 12" SQ. MOCK UP OF WALL FINISH, COLOR BUTT-JOINT DETAILS, ETC. TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. SEE DETAIL V. A61 FOR MORE INFORMATION.
- L** EXTERIOR WALL - 8" X 8" X 16" EXPOSED MASONRY UNIT (EXT. FACE) W/ 6" 20 GA. MTL. STUDS FURRING • 16" O.C. W/ 3/8" TYPE "X" GYP. • INTERIOR FACE. EXTEND BOTH STUDS AND GYP. WALL BOARD UP TO BOTTOM OF ROOF DECK.

PLANS APPROVED
ARCHITECTURAL
Samuel D. Tolman, AIA, NCARB
No. 2272
7/2/17
OCT 17 2007
Does Not Include Electrical, Plumbing,
Mechanical, Structural or GR-SHA
Improvements Make No Change
Without Approval From Is
Not a Permit to Violate Any Ordinance

RECEIVED

OCT 28 2007 23851

CITY OF LAS VEGAS

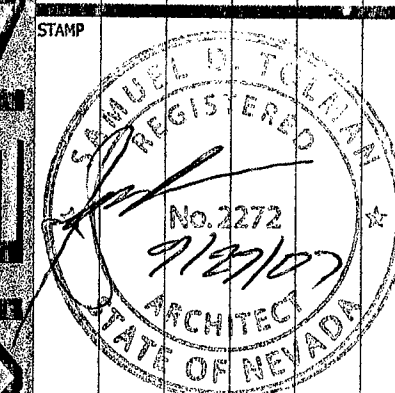


REVISIONS
Owner & Bldg Dept - 08/20/07

CONSULTANT

CITY OF LAS VEGAS, NEVADA
FIRE STATION #48

Wall Types



OWNER: CITY OF LAS VEGAS
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DRAWN	EPB
FILE	248-G4
DATE	1/3/07
SCALE	N/A
SHEET NO	061534113
CLV DWG NO	630-104

G4