ATTACHMENT C - FLOOR PLAN OF ADMINISTRATIVE BUILDING

GENERAL:
THE VA HAS ADOPTED THE LATEST EDITION OF THE FOLLOWING CODES & STANDARDS:

CODES, STANDARDS AND EXECUTIVE ORDERS
- VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL)
- INTERNATIONAL BUILDING CODE (IBC) (SEE NOTES BELOW)
- NFPA 101 LIFE SAFETY CODE (SEE NOTES BELOW)
- NFPA NATIONAL FIRE CODES WITH EXCEPTION OF NFPA 5000 AND NFPA 900
- OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS
- VA SEISMIC DESIGN REQUIREMENTS, H-18-8
- NATIONAL ELECTRICAL CODE (NEC)
- NATIONAL STANDARD PLUMBING CODE (NSPC)
- ASME BOILER AND PRESSURE VESSEL CODE
- ASME CODE FOR PRESSURE PIPING
- UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) INCLUDING VA SUPPLEMENT BARRIER FREE DESIGN
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318)
- MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
- ENERGY POLICY ACT OF 2005 (EPAct)
- DOE INTERIM FINAL RULE: ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS, 10 CFR PARTS 433,434 AND 435
- FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS: MEMORANDUM OF UNDERSTANDING (MOU)
- EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY, AND TRANSPORTATION MANAGEMENT
- THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS, STATED IN THE GENERAL REQUIREMENTS SECTION 01010 OF THE VA MASTER CONSTRUCTION SPECIFICATION
- VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1-2004
- SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15 -2007
-VA FIRE PROTECTION DESIGN MANUAL

LOCAL CODES: AS AN AGENCY OF THE FEDERAL GOVERNMENT, VA IS NOT SUBJECT TO LOCAL IMPOSITION OF CODE ENFORCEMENT PROCEDURES (DRAWING REVIEWS, BUILDING PERMITS, INSPECTIONS, FEES, ETC.) VA MUST FUNCTION AS THE AUTHORITY HAVING JURISDICTION (AHJ) AND THUS HAS THE RESPONSIBILITY TO GUARD PUBLIC HEALTH AND SAFETY THROUGH ENFORCING ITS ADOPTED CODES. HOWEVER, LOCAL AUTHORITIES SHOULD BE NOTIFIED ABOUT PLANNED PROJECTS AND GIVEN THE OPPORTUNITY TO REVIEW DRAWINGS PROVIDED THAT VA DOES NOT PAY FOR REVIEW OR INSPECTION FEES.

NOTES:
1. NFPA 101 PRIMARILY ADDRESSES LIFE SAFETY AND FIRE PROTECTION FEATURES WHILE THE IBC ADDRESSES A WIDE RANGE OF CONSIDERATIONS, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL STRENGTH, SEISMIC STABILITY, SANITATION, ADEQUATE LIGHT AND VENTILATION, AND ENERGY CONSERVATION. VA BUILDINGS MUST MEET THE REQUIREMENTS OF NFPA 101 AND DOCUMENTS REFERENCED BY NFPA 101 IN ORDER TO COMPLY WITH THE ACCREDITATION REQUIREMENTS OF THE JOINT COMMISSION. THEREFORE, DESIGNS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF NFPA 101 AND DOCUMENTS REFERENCED THEREIN. DESIGN FEATURES NOT ADDRESSED BY NFPA 101 OR DOCUMENTS REFERENCED THEREIN SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE IBC OR AS OTHERWISE ADDRESSED ABOVE IN THIS PROGRAM GUIDE. FOR DESIGN FEATURES THAT ARE ADDRESSED BY BOTH THE IBC AS WELL AS NFPA 101 OR A DOCUMENT REFERENCED BY THE NFPA 101, THE REQUIREMENTS OF THE NFPA 101 OR THE DOCUMENT REFERENCED BY THE NFPA 101 SHALL BE USED EXCLUSIVELY (THIS APPLIES EVEN IF THE IBC REQUIREMENTS ARE DIFFERENT).
2. CONFLICTS BETWEEN NATIONALLY RECOGNIZED CODES AND STANDARDS AND VA REQUIREMENTS - SHOULD A CONFLICT EXIST BETWEEN VA REQUIREMENTS AND VA ADOPTED NATIONALLY RECOGNIZED CODES AND STANDARDS, THE CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE VA. THE RESOLUTION OF THE CONFLICT SHALL BE MADE BY THE AUTHORITY HAVING JURISDICTION FOR THE VA TO ENSURE A CONSISTENCY SYSTEM WIDE.

1001 ADMINISTRATION BUILDING - 5523 S.F.

NFPA 101 A.7.3.3	EGRESS CAPACITY CALCULATIONS, STANDARD ROUNDING SHOULD BE USED
NFPA 1	6.1.11.1 BUSINESS OCCUPANCY
NFPA 101	38.1.6 MINIMUM CONSTRUCTION REQUIREMENTS (NO REQUIREMENTS)
NFPA 5000	TABLE 7.2.1.1 TYPE V (000) CONSTRUCTION ELEMENTS FIRE RATING - 0 HOURS
NFPA 5000	TABLE 7.4.1 ALLOWABLE BUILDING HEIGHT AND AREA BUSINESS - UNPROTECTED - V(000), 2 STORIES 9000
NFPA 1	6.1.2.1 ASSEMBLY
NFPA 101	TABLE 12.1.6 MINIMUM CONSTRUCTION REQUIREMENTS TYPE V(000) 1 - STORY LIMITED TO AN OCCUPANCY LOAD OF 1000 OR LESS
NFPA 5000	TABLE 7.4.1 ASSEMBLY X<300 TYPE V (000) UN-PROTECTED, 1 STORY, 5,500 S.F.

FIRE SPRINKLER SYSTEM
THE AUTHORITY HAVING JURISDICTION HAS INDICTED THAT THE BUILDING SHALL NOT BE PROVIDED WITH A SPRINKLER SYSTEM

OCCUPANCY LOAD
NFPA 101 TABLE 7.3.1.2
BUSINESS - 100S.F./PERSON
ASSEMBLY(CONCENTRATED USE) - 7 S.F./PERSON (NET)
ASSEMBLY (UNCONCENTRATED USE) - 15 S.F./PERSON (NET)

FIRE EXTINGUISHERS - PORTABLE
NFPA 10 5.2.1 CLASS A ORDINARY COMBUSTABLE MATERIALS
5.2.3 CLASS C ENERGIZED ELECTRICAL EQUIPMENT
(I.T. AND MECH ROOMS)
TABLE 6.2.1.1 - CLASS A MAX. TRAVEL DISTANCE TO EXTINGUISHER 75 FT.

BUILDING SEPARATION
NFPA 101 TABLE 6.1.14.4.1(B) ONE HOUR SEPARATION BETWEEN ASSEMBLY (X<300) AND BUSINESS
NFPA 101 6.1.14.1.3 WHERE INCIDENTAL TO ANOTHER OCCUPANCY, AREAS USED AS FOLLOWS SHALL BE PERMITTED TO BE CONSIDERED PART OF THE PREDOMINANT OCCUPANCY AND SHALL BE SUBJECT TO THE PROVISIONS OF THE CODE THAT APPLY TO THE PREDOMINANT OCCUPANCY:
(2) NONRESIDENTIAL USE WITH AN OCCUPANT LOAD FEWER THAN THAT ESTABLISHED BY SECTION 6.1 FOR THE OCCUPANCY THRESHOLD A.6.1.14.1.3(2) EXAMPLES OF USES THAT HAVE OCCUPANT LOADS BELOW THE OCCUPANCY CLASSIFICATION THRESHOLD LEVELS INCLUDE THE FOLLOWING:
(1) ASSEMBLY USE WITH FEWER THAN 50 PERSONS WITHIN A BUSINESS OCCUPANCY

COMMON PATH OF TRAVEL
NFPA 101 38.2.5.3.3 IN BUILDINGS OTHER THAN THOSE COMPLYING WITH 38.2.5.3.2, COMMON PATH OF TRAVEL SHALL NOT EXCEED 75 FT.

INTERIOR WALL & CEILING FINISH
NFPA 101 38.3.3.2.1 INTERIOR WALL AND CEILING FINISH MATERIAL COMPLYING WITH SECTION 10.2 SHALL BE CLASS A OR CLASS B IN EXITS AND EXIT ACCESS CORRIDORS
NFPA 101 38.3.3.2.2 INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS A, CLASS B, OR CLASS C IN AREAS OTHER THAN THOSE SPECIFIED IN 38.3.3.2.1

INTERIOR FLOOR FINISH
NFPA 101 38.3.3.3.2 INTERIOR FLOOR FINISH IN EXIT ENCLOSURES SHALL BE CLASS I OR CLASS II
38.3.3.3.3 INTERIOR FLOOR FINISH SHALL COMPLY WITH 10.2.7.1 OR 10.2.7.2 AS APPLICABLE
TABLE A.10.2.2 INTERIOR FINISH CLASSIFICATION LIMITATIONS NEW BUSINESS-FLOOR FINISH-NOT APPLICABLE

EGRESS
LOBBY AREA - USE TWO EXITS - X> 30 PEOPLE EXITING
NFPA 101 7.4.1.1 THE NUMBER OF MEANS OF EGRESS FROM ANY BALCONY, MEZZANINE, STORY OR PORTION THEREOF SHALL BE NOT LESS THAN TWO, EXCEPT UNDER ONE OF THE FOLLOWING CONDITIONS:
(1) A SINGLE MEANS OF EGRESS SHALL BE PERMITTED WHERE PERMITTED IN CHAPTERS 11 THROUGH 43
NFPA 101 38.2.4.1 EXITS SHALL COMPLY WITH THE FOLLOWING, EXCEPT AS OTHERWISE PERMITTED BY 38.2.4.2 THROUGH 38.2.4.6:
(1)THE NUMBER OF MEANS OF EGRESS SHALL BE IN ACCORDANCE WITH SECTION 7.4
(2) NOT LESS THAN TWO SEPARATE EXITS SHALL BE PROVIDED ON EVERY STORY
NFPA 101 38.2.4.3 A SINGLE EXIT SHALL BE PERMITTED FOR A ROOM OR AREA WITH A TOTAL OCCUPANT LOAD OF FEWER THAN 100 PERSONS, PROVIDED THAT THE FOLLOWING CRITERIA ARE MET:
(1) THE EXIT SHALL DISCHARGE DIRECTLY TO THE OUTSIDE AT THE LEVEL OF EXIT DISCHARGE FOR THE BUILDING.
(2) THE TOTAL DISTANCE OF TRAVEL FROM ANY POINT, INCLUDING TRAVEL WITHIN THE EXIT, SHALL NOT EXCEED 100FT.

CORRIDORS
NO FIRE RATED CORRIDORS REQUIRED AT BUSINESS
NFPA 101 38.3.6.1 WHERE ACCESS TO EXITS IS PROVIDED BY CORRIDORS, SUCH CORRIDORS SHALL BE SEPARATED FROM THE USE AREAS BY FIRE BARRIERS IN ACCORDANCE WITH SECTION 8.3 HAVING A MINIMUM 1-HOUR FIRE RESISTANCE RATING, UNLESS ONE OF THE FOLLOWING CONDITIONS EXISTS:
(1) WHERE EXITS ARE AVAILABLE FROM AN OPEN FLOOR AREA
A38.3.6.1(1) WHERE EXITS ARE AVAILABLE FROM AN OPEN FLOOR AREA, SUCH AS OPEN PLAN BUILDINGS, CORRIDORS ARE NOT REQUIRED TO BE SEPARATED.
(2) WITHIN A SPACE OCCUPIED BY A SINGLE TENANT
A38.3.6.1(2) IT IS THE INTENT OF THIS PROVISION THAT A SINGLE TENANT BE LIMITED TO AN AREA OCCUPIED UNDER A SINGLE MANAGEMENT AND WORK THE SAME HOURS.

CONCEALED SPACES AND DRAFTSTOPS
NFPA 101 8.6.10.1 ANY CONCEALED COMBUSTIBLE SPACE IN WHICH BUILDING MATERIALS HAVING A FLAME SPREAD INDEX GREATER THAN CLASS A ARE EXPOSED SHALL BE DRAFT STOPPED AS FOLLOWS:
(1) EVERY EXTERIOR AND INTERIOR WALL AND PARTITION SHALL BE FIRESTOPPED AT EACH FLOOR LEVEL, AT THE STORY CEILING LEVEL AND AT THE LEVEL OF SUPPORT FOR ROOFS
(2) EVERY UNOCCUPIED ATTIC SPACE SHALL BE DIVIDED BY DRAFTSTOPS INTO AREAS NOT TO EXCEED 3000 S.F.
(3) ANY UNCONCEALED SPACE BEWTWEEN THE CEILING AND THE FLOOR OR ROOF ABOVE SHALL BE DRAFTSTOPPED FOR THE FULL DEPTH OF THE SPACE ALONG THE LINE OF SUPPORT FOR THE FLOOR OR ROOF STRUCTURAL MEMBERS AND, IF NECESSARY, AT OTHER LOCATIONS TO FORM AREAS NOT TO EXCEED 1000S.F. FOR ANY SPACE BEWTWEEN THE CEILING AND THE FLOOR, AND 3000S.F. FOR ANY SPACE BEWTEEN THE CEILING AND THE ROOF.

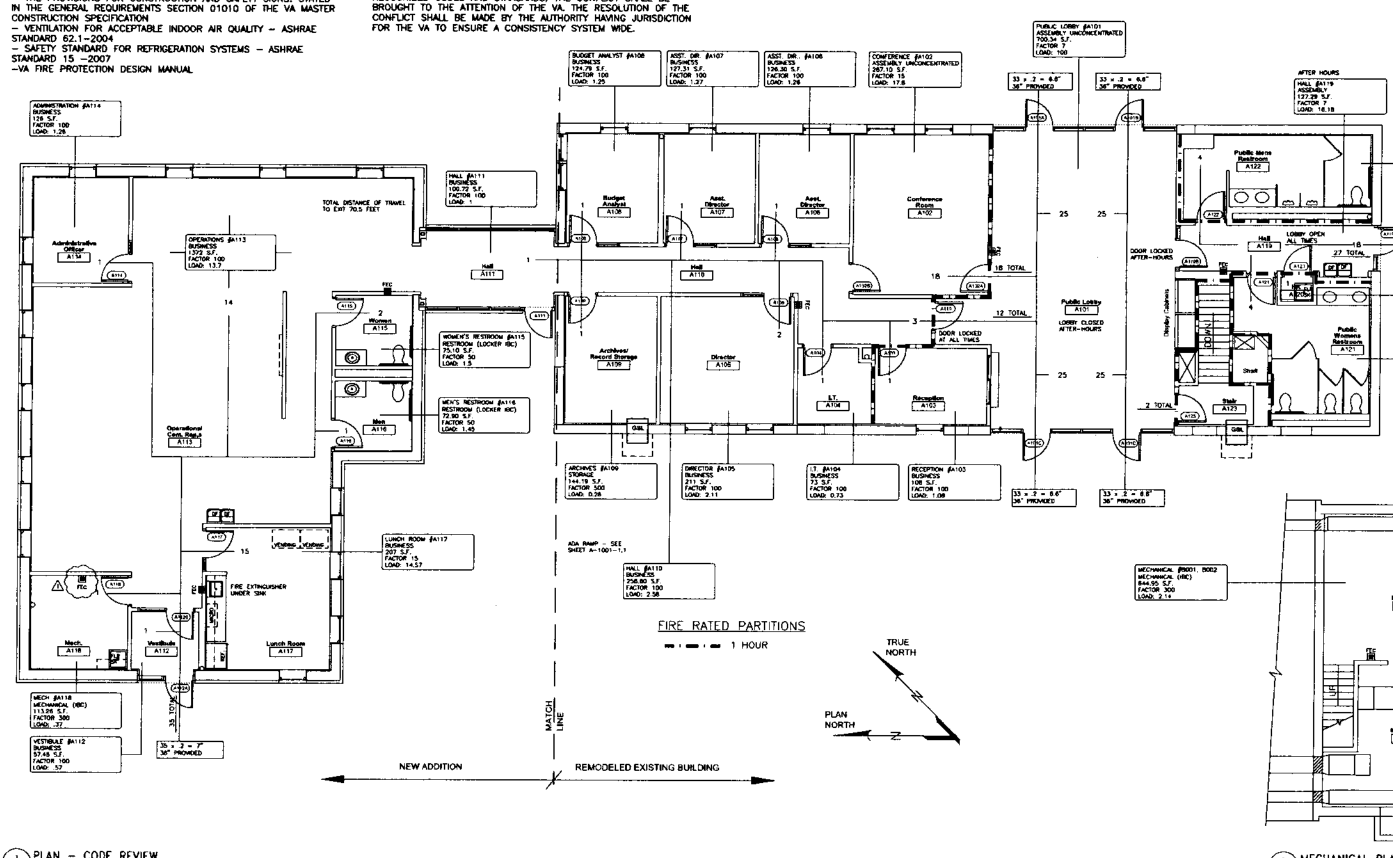
PLUMBING FIXTURES
IBC 2009 TABLE 2902.1
BUSINESS
WATER CLOSET 1 PER 25 (MALE/FEMALE)
LAVATORIES 1 PER 40 (MALE/FEMALE)
DRINKING FOUNTAIN 1 PER 100
ONE SERVICE SINK

LOBBY - (SIMILAR TO PASSENGER TERMINAL)
WATER CLOSET 1 PER 500 (MALE/FEMALE)
LAVATORIES 1 PER 750 (MALE/FEMALE)
DRINKING FOUNTAIN 1 PER 1,000
ONE SERVICE SINK

IBC 2009 2902.3.1 ACCESS TO FIXTURES
ACCESS TO THE REQUIRED FACILITIES SHALL BE FROM WITHIN THE BUILDING OR FROM THE EXTERIOR OF THE BUILDING

EXTERIOR EXIT ADA ACCESSIBLE ROUTE IS X>10FT FROM BUILDING
NFPA 101 7.6.3 WHERE ANY PART OF AN EXTERIOR EXIT IS WITHIN 10 FT OF A HORIZONTAL DISTANCE OF ANY UNPROTECTED BUILDING OPENING,AS PERMITTED BY 7.2.2.6.3 FOR OUTSIDE STAIRS, THE TRAVEL DISTANCE TO THE EXIT SHALL INCLUDE THE LENGTH OF TRAVEL TO THE FINISHED GROUND LEVEL.

NFPA 101 A3.3.75 EXIT IN THE CASE OF A DOOR LEADING DIRECTLY FROM THE STREET FLOOR TO THE STREET OR OPEN AIR, THE EXIT COMPRISES ONLY THE DOOR.



1 PLAN - CODE REVIEW
A-1001/-1.5 SCALE: 3/16"=1'-0"

2 MECHANICAL PLAN - CODE REVIEW
A-1001/-1.5 SCALE: 3/16"=1'-0"

RECORD PLANS 1-25-2013

1 RFI-63	05/18/2012
Revisions	Date

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NATIONAL CEMETERY ADMINISTRATION

Drawing Title: CODE REVIEW PLAN	Project Title: ADMINISTRATION BUILDING	Date: 07-15-11
Approved: Director, Office of Construction Management	Building Number / Checked / Drawn	Project No. 852CM3033
Approved: Director, Project Management Service	Location: JEFFERSON BARRACKS NAT'L CEMETERY 2900 SHERIDAN ROAD ST LOUIS, MISSOURI	Drawing No. A-1001-1.5 Dwg. 23 Of 78