



DESIGN CRITERIA:

GENERAL BUILDING CODE: 2007 BUILDING CODE OF NEW YORK STATE

DESIGN STRESSES

CONCRETE:	
LT SLABS ON STEEL DECK	$f_c = 3500$ PSI
REINFORCING STEEL	
13 BARS AND SMALLER	$f_y = 40,000$ PSI
WELDED WIRE REINFORCING	$f_y = 60,000$ PSI
STRUCTURAL STEEL	
PIPE SHAPES (A53 Gr. B)	$f_y = 50,000$ PSI
HSS SHAPES (A500 Gr. B)	$f_y = 36,000$ PSI
ANGLES, CHANNELS (A36)	$f_y = 36,000$ PSI
PLATES (A36)	$f_y = 36,000$ PSI

DESIGN LOADS

NEW FLOOR DEAD LOADS	
6" THK. CONC. SLAB	50 PSF
6" TOTAL LWC ON 1.5" DECK	3 PSF
FLOORING	2 PSF
CELING/LIGHTS	2 PSF
MECH/ELECT	5 PSF ACTUAL
ASSUMED EXISTING STEEL ROOF DEAD LOADS	
12 PSF	
12 PSF	
10 PSF	
MECHANICAL ROOM MECH/ELEC	ACTUAL
STRUCTURE	
LIVE LOADS	
PATIENT ROOMS	40 PSF (REDUCIBLE)
CORRIDORS ABOVE 1ST LEVEL	80 PSF (REDUCIBLE)
SNOW LOADS	
GROUND SNOW LOAD ( $P_g$ )	50 PSF
FLAT-ROOF SNOW LOAD ( $P_f$ )	42 PSF
DESIGN SNOW LOAD	42 PSF
SNOW EXPOSURE B	1.15
SNOW IMPORTANCE FACTOR	$C_e = 1.0$
THERMAL FACTOR	$C_t = 1.0$

WIND LOAD

BASIC WIND SPEED	$V = 90$ mph
WIND EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	$GCP = 0.18$

EARTHQUAKE DESIGN DATA

IMPORTANCE FACTOR ( $I_p$ )	1.5
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
$S_1 = 0.046g$	
$S_2 = 0.086g$	

ATTENTION TO THE EXISTING STRUCTURE DO NOT INCREASE STRENGTH OR STIFFNESS OF EXISTING STRUCTURE BY MORE THAN 10 PERCENT SINCE THE ORIGINAL CONSTRUCTION. NO FURTHER LATERAL INVESTIGATION HAS BEEN PERFORMED.

STRUCTURAL SHEET SPECIFICATION:

033000 - CONCRETE

PART 1 - GENERAL

- 1.1 REQUIRED SUBMITTALS
    - A. CONCRETE MIX DESIGN
  - 1.2 CONCRETE PLACING, FINISHING, AND CURING: COMPLY WITH ACI 301, LATEST EDITION.
  - A. SEE ARCHITECTURAL SPECIFICATIONS FOR CONCRETE FINISHES.
- PART 2 - MATERIALS AND PRODUCTS

2.1 MATERIALS

1. CONCRETE AGGREGATE: LIMIT DELETERIOUS MATERIAL TO 4 PERCENT.
- B. STEEL REINFORCEMENT: ASTM A 108, PLAIN.
1. PLAIN STEEL WELDED WIRE REINFORCEMENT: ASTM A 185, PLAIN.
2. FABRICATE AND PLACE REINFORCEMENT ACCORDING TO CDS'S.
3. MINIMUM OF STANDARD PRACTICE.
3. SUPPORT WELDED WIRE REINFORCEMENT ON CONTINUOUS SLAB BEAMS: PROVIDE 1" MINIMUM CLEARANCE BETWEEN WELDED WIRE REINFORCEMENT AND CONCRETE.
4. CALCULATE CHAIRS OR CHAIRS CONTAINING MORE THAN 0.05 PERCENT CHAIRS ARE NOT PERMITTED.

2.2 CONCRETE MIXTURES

- A. CONCRETE MIXTURES: COMPLY WITH ACI 318, LATEST EDITION.
- B. LIMIT FLY ASH TO 20 PERCENT OF TOTAL CEMENTitious CONTENT.
- C. WATER-CEMENT RATIO: USE MID-RANGE OR HIGH-RANGE WATER REDUCING ADMIXTURES TO CONTROL PLASTICITY AND WORKABILITY OF CONCRETE.
- D. WATER-CEMENT RATIO: USE MID-RANGE OR HIGH-RANGE WATER REDUCING ADMIXTURES TO CONTROL PLASTICITY AND WORKABILITY OF CONCRETE.
- E. APPROXIMATE THE OPTION OF USING A HIGH-RANGE OR MID-RANGE WATER REDUCING ADMIXTURE (REQUIRED FOR ALL PLUMED CONCRETE). THE MAXIMUM SLUMP OF THE MIX BEFORE THE ADDITION OF THE WATER REDUCING ADMIXTURE SHALL BE 3" MAXIMUM.
- F. FINE AGGREGATE: FINE AGGREGATE SHALL NOT EXCEED RANGE OF 30% - 50% OF TOTAL WEIGHT OF CONCRETE AND FINE AGGREGATES.
- G. FINE AGGREGATE: FINE AGGREGATE SHALL NOT EXCEED RANGE OF 30% - 50% OF TOTAL WEIGHT OF CONCRETE AND FINE AGGREGATES.
- H. FINE AGGREGATE: FINE AGGREGATE SHALL NOT EXCEED RANGE OF 30% - 50% OF TOTAL WEIGHT OF CONCRETE AND FINE AGGREGATES.

CONCRETE TOPPING

ASTM C-33, COARSE AGGREGATE	MAXIMUM SIZE NO. 4"
ASTM C-33, FINE AGGREGATE	MAXIMUM SIZE NO. 20"

PART 3 EXECUTION

- 3.1 GENERAL
  - A. PREPARE CONCRETE IN SUCH A MANNER AS NOT TO OVERLOAD STEEL DECK.
  - B. CONCRETE SHALL BE PLACED AND FINISHED IN SUCH A MANNER AS NOT TO OVERLOAD STEEL DECK.
  - C. PROVIDE DIAGONAL REINFORCEMENT ON EACH SIDE OF OPENINGS, OR REINFORCEMENT CORNERS IN SLABS AS FOLLOWS: 2-#4 X4'-0" BAR FOR EACH 4" INCHES OF THICKNESS.

3.2 FINISHING FLOORS AND SLABS

- A. GENERAL: COMPLY WITH ACI 302.1R RECOMMENDATIONS FOR FINISHING.
- B. FINISH SURFACES TO THE FOLLOWING TOLERANCES, ACCORDING TO ASTM E 1155, FOR A RANDOM, REFINED FLOOR SURFACE:
  1. SPECIFIED FINISH VALUE: FT 30
  2. MINIMUM LOCAL VALUE: FT 20
  3. MAXIMUM LOCAL VALUE: FT 30
- C. THE ABOVE CRITERIA SHALL BE APPLIED TO ALL FLOORS AFTER FINISHING.
- D. FINISHING METHODS: FINISHING METHODS SHALL BE DETERMINED BY THE ARCHITECT.
- E. FINISHING METHODS: FINISHING METHODS SHALL BE DETERMINED BY THE ARCHITECT.
- F. FINISHING METHODS: FINISHING METHODS SHALL BE DETERMINED BY THE ARCHITECT.
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- Z. FINISHING METHODS: FINISHING METHODS SHALL BE DETERMINED BY THE ARCHITECT.

STRUCTURAL NOTES:

1. ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN OBTAINED FROM AVAILABLE SOURCES AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
2. SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE EXISTING BUILDING DURING CONSTRUCTION.
3. USE STRUCTURAL DRAWINGS WITH ALL ARCHITECTURAL AND ENGINEERING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ALL REQUIREMENTS AND SHOP DRAWINGS AND WORK.
4. OPENINGS SHALL NOT BE MADE IN ANY STRUCTURAL MEMBER WITHOUT APPROVAL OF THE ARCHITECT.
5. DO NOT CHANGE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ARCHITECT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE CODE STRENGTH LIMITS OF STRUCTURAL MEMBERS AT THE TIME THE LOADS ARE IMPOSED.
7. DO NOT SCALE DRAWINGS. USE DIMENSIONS.
8. VERIFY ALL DIMENSIONS AND ELEVATIONS ON STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. REPORT DISCREPANCIES TO ARCHITECT BEFORE PROCEEDING WITH WORK.
9. INFORM THE ARCHITECT OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY BY THE ARCHITECT'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS BEEN ADVISED BY THE ARCHITECT THAT THE DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

051200 - STRUCTURAL STEEL FRAMING

PART 1 - GENERAL

- 1.1 PERFORMANCE REQUIREMENTS
  - A. CONNECTIONS: PROVIDE DETAILS OF CONNECTIONS REQUIRED BY CONTRACT DOCUMENTS TO BE RESTRICTIONS INDICATED.
  - 1. SELECT AND COMPLETE CONNECTIONS USING SCHEMATIC DETAILS INDICATED AND
  - 2. DO NOT USE CONNECTIONS WHICH REQUIRE EITHER MEMBER TO BE COMPLETELY DISCONNECTED (UNITS REMOVED FROM BOLTS) FOR INSTALLATION OF THE SUCCEEDING MEMBER.

1.2 SHOP DRAWINGS

- A. FABRICATION AND ERECTION DRAWINGS.

PART 2 - MATERIALS AND PRODUCTS

- 2.1 MATERIALS
  - A. MILD STEEL SHAPES: ASTM A992
  - B. MILD STEEL SHAPES: ASTM A992
  - C. PIPE SHAPES: ASTM A500, GRADE B
  - D. HSS SHAPES: ASTM A500, GRADE B
  - E. WELDED FLANGES: COMPLY WITH AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION
  - F. WELDED FLANGES: COMPLY WITH AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION
  - G. SHOP PRIMER: SSPC-PAINT 25, TYPE II
  - H. SHOP PRIMER: SSPC-PAINT 25, TYPE II
  - I. COMPLY WITH FABRICATION AND TOLERANCE LIMITS OF AISC'S CODE OF STANDARD PRACTICE.

PART 3 - EXECUTION

- 3.1 ERECTION
  - A. ERECTION SHALL BE ACCORDANT WITH AISC'S CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND
  - B. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
  - C. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
  - D. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
  - E. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
  - F. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
  - G. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
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  - I. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
  - J. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
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  - X. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
  - Y. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN
  - Z. PROVIDE ROOF OPENING FRAMES AT ALL ROOF PENETRATIONS, REFER TO ARCHITECTURAL ROOF PLAN

053100 - STEEL DECKING

PART 1 - GENERAL

- 1.1 SHOP DRAWINGS
  - A. PROVIDE SHOP DRAWINGS SHOWING DIMENSIONS, BOLT LOCATIONS, PROJECTIONS, OPENINGS, FINISHES, MATERIAL TYPE, FASTENER DETAILS AND ACCESSORIES.

PART 2 - MATERIALS AND PRODUCTS

- 2.1 PRODUCTS
  - A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
    1. ENVIRONMENTAL CORPORATION
    2. VULCANIZATION DIVISION OF INCOOR CORPORATION
    3. LIMITED STEEL DECK, INC.
    4. WHEELING CORRUGATING COMPANY
    5. KNOX STEEL DECKING, INC.
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PART 3 - EXECUTION

- 3.1 ERECTION
  - A. ERECTION SHALL BE ACCORDANT WITH AISC'S CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND
  - B. ON STEEL SUPPORT MEMBERS, PROVIDE 3 INCH (76 MM) MINIMUM BEARING, ALIGN AND LEVEL ON
  - C. FASTENERS SHALL BE PROVIDED AS INDICATED BELOW UNLESS NOTED OTHERWISE:
    1. FASTENING PATTERN TO SUPPORT SHALL BE 3/4" USING 5/8" DOUBLE WELLS
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    100. FASTENING PATTERN TO SUPPORT SHALL BE 3/4" USING 5/8" DOUBLE WELLS

one-eighth inch = one foot

one-quarter inch = one foot

three-eighths inch = one foot

one-half inch = one foot

three-quarters inch = one foot

one inch = one foot

one and one-half inch = one foot

three inches = one foot

100% Submission

50% Submission

60% Submission

7/02/10

5/27/10

4/22/10

Revisions

Date

VA WESTERN NEW YORK HEALTHCARE SYSTEM

3495 BAILEY AVENUE

BUFFALO, NEW YORK 14215

URS

BUFFALO, NY.,

77 GODDARD ST

716-856-5636

Architect

stamp

CARDIOLOGY

DATE

ENGINEERING MANAGER

DATE

INFECTION CONTROL

DATE

CARELINE MANAGER

DATE

SAFETY OFFICER

DATE

CHIEF OF STAFF

DATE

ASSOCIATE MEDICAL CENTER DIRECTOR

DATE

Project Title

RENOVATION OF BLDG. #1,

2ND FLOOR, B-WARD

Building Number

Checked

Drawn

Location

V.A.M.C. BATHYIA, NEW YORK

Date

July 2, 2010 (UPDATED 10/07/10)

Station No.

558

09-352 S-DE-500

Office of Facilities

Department of Veterans Affairs