

GENERAL NOTES:

1. DESIGN CRITERIA -

- A) CODE: INTERNATIONAL BUILDING CODE, 2006 EDITION
ASCE 7-05
- B) DESIGN LOADS:
- GRAVITY -
- LIVE LOADS
PARKING 40 PSF
STAIRS/PUBLIC AREAS 100 PSF
ROOF SLABS (REDUCIBLE) 20 PSF
- WIND -
- BASIC WIND SPEED (OWNER DEFINED) 140 MPH
IMPORTANCE FACTOR 1.0
EXPOSURE (OWNER DEFINED) D
OCCUPANCY CATEGORY (OWNER DEFINED) II
BUILDING CLASSIFICATION ENCLOSED
INTERNAL PRESSURE COEFFICIENT, GCPI +0.18
- SEISMIC -
- SEISMIC DESIGN CATAGORY A
OCCUPANCY CATEGORY II
IMPORTANCE FACTOR 1.0
SITE CLASS D
RESPONSE MODIFICATION FACTOR R 5.0
DEFLECTION AMPLIFICATION FACTOR Cd 4.5
- MAPPED SHORT PERIOD SPECTRAL RESPONSE ACCELERATION Ss 0.19
MAPPED 1 SEC PERIOD SPECTRAL RESPONSE ACCELERATION S1 0.062
DESIGN SHORT PERIOD SPECTRAL RESPONSE ACCELERATION Sds 0.127
DESIGN 1 SEC PERIOD SPECTRAL RESPONSE ACCELERATION Sd1 0.083
- SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

2. GENERAL NOTATIONS -

- A) THE FOLLOWING SPECIFICATIONS ARE A SUPPLEMENT TO ALL OTHER REQUIREMENTS. WHERE CONFLICTS EXIST OR WHEN MANUFACTURE SPECIFICATIONS ARE IN EXCESS OF THOSE CONTAINED HEREIN, THE STRICTIST REQUIREMENTS SHALL GOVERN.
- B) IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO FABRICATION AND ERECTION. ALL SHOP DRAWINGS SHALL BE AVAILABLE AT THE JOBSITE AND SHALL BEAR INDICATIONS THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
- C) ALL DIMENSIONS SHOWN TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS.
- D) SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- E) WHERE A SECTION IS CUT ON THE DRAWINGS, IT SHALL APPLY AT ALL LIKE OR SIMILAR CONDITIONS UN.O.
- F) REFERENCE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
1. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS
2. SIZE AND LOCATION OF ALL ROOF OPENINGS
3. ALL REQUIRED FINISHES
4. VENEER ATTACHMENT DETAILS. (IF APPLICABLE)
5. SIZE AND LOCATION OF ANY ROOMS/CLOSETS NOT SHOWN HEREIN
- G) REFERENCE MECHANICAL, PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS FOR THE FOLLOWING INFORMATION:
1. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB BLOKOUTS, ETC.
2. ELECTRICAL CONDUIT RUNS, BOXES, LIGHTING, OUTLETS IN WALLS AND SLABS
3. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES
4. UNDERGROUND CONCRETE DUCTS, TRENCHES, PITS, OR MANHOLES
5. CONCRETE AND ASPHALT PAVEMENT
- H) THE STRUCTURAL DRAWINGS REPRESENT THE COMPLETED STRUCTURE, UN.O. THE STRUCTURE IS STRUCTURALLY SOUND IN ITS COMPLETED FORM ONLY. THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL MEANS AND METHODS OF CONSTRUCTION AND SHALL PROVIDE ALL MEASURE NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, OR OTHER PERSONEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTHWORK, FORMS, SCAFFOLDING, PLANKING, SAFETY EQUIPMENT, SUPPORT AND BRACING FOR CRANES, ETC.
- J) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ANY SPECIAL INSPECTIONS WITH THE FIRM PERFORMING THE INSPECTIONS TO AVOID COMPLICATIONS AND DELAYS. ALL SPECIAL INSPECTION WORK SHALL BE PERFORMED UNDER A SEPARATE CONTRACT WITH THE OWNER.

3. EXPANSION ANCHORS, ADHESIVE ANCHORS, and EPOXIED REBAR -

- A) ALL EXPANSION ANCHORS SHALL BE 3/4" DIAMETER KWIK BOLT II EXPANSION ANCHORS BY HILTI WITH 4 3/4" EMBEDMENT OR APPROVED EQUAL UN.O.
- B) ALL ADHESIVE ANCHORS SHALL BE H.A.S. STD RODS INSTALLED WITH HIT HY 150 ADHESIVE ANCHOR SYSTEM BY HILTI OR APPROVED EQUIVALENT UN.O.
- C) ALL REBAR NOTED ON SECTIONS AND DETAILS AS "EPOXIED" INTO CONCRETE, SHALL BE INSTALLED WITH HIT HY 150 ADHESIVE SYSTEM BY HILTI OR APPROVED EQUIVALENT UN.O.
- D) ALL ANCHORS AND FASTENERS SHALL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS.

4. CONCRETE FORMWORK -

- A) DESIGN, ERECTION AND REMOVAL OF FORMWORK, SHORING AND RESHORING, IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- B) CONSTRUCT AND ERECT FORMWORK IN ACCORDANCE WITH ACI 301 AND ACI 347.
- C) DO NOT REMOVE SHORES SOONER THAN RECOMMENDED BY ACI 301 OR ACI 347.

5. CONCRETE REINFORCING STEEL -

- A) REFERENCE STANDARD: ACI 318-05
- B) UNLESS SPECIFICALLY NOTED OTHERWISE, ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60.
- C) WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185.
- D) CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318, UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- E) CONTRACTORS SHALL NOT PLACE ANY REINFORCING UNTIL APPROVED SHOP DRAWINGS ARE RECEIVED ON THE JOB.
- F) ALL REINFORCING BAR BENDS ARE TO BE MADE COLD.
- G) BARS SHALL BE IN CONTACT WHEN FORMING A LAP SPLICE, UNLESS NOTED OTHERWISE.
- H) PROVIDE CORNER BARS AT ALL CAST-IN-PLACE CONCRETE WALL CORNERS. PROVIDE 30" LAP BETWEEN CORNER BARS AND MAIN REINFORCING.
- J) REINFORCING STEEL MARKED AS "CONTINUOUS" SHALL BE LAPPED WITH CLASS "B" TENSION LAP SPLICE UNLESS SPECIFICALLY DETAILED OTHERWISE. LAP WELDED WIRE FABRIC ONE FULL MESH AT SIDE AND END LAPS.
- K) ALL REINFORCING STEEL WHICH WILL BE WELDED SHALL CONFORM TO ASTM A706.

6. CONCRETE -

- A) REFERENCE STANDARDS: ACI 318-05, ACI 305-99
- B) PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I.
- C) REFER TO ARCHITECTURAL DRAWINGS FOR CLIPS, GROOVES, GROUNDS, ETC., TO BE CAST IN CONCRETE AND FOR CONCRETE FINISHES.
- D) MAXIMUM SPACING OF FLOOR CONTROL JOINTS FOR INTERIOR SLABS-ON-GRADE SHALL BE 20 FEET IN EACH DIRECTION.
- E) PIPES, DUCTS, CONDUITS, ETC., SHALL NOT BE PLACED IN SLABS UNLESS APPROVED BY THE STRUCTURAL ENGINEER. A DRAWING INDICATING THE SIZE AND LOCATIONS OF SUCH ITEMS SHALL BE REQUIRED FOR REVIEW AND APPROVAL.
- F) ALL REINFORCING BARS, ANCHOR BOLTS, AND ANY OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING ANY CONCRETE.
- G) SLEEVE PLUMBING OPENINGS IN SLABS BEFORE POURING CONCRETE AND BEND REINFORCING AROUND SLEEVES. CORING WILL NOT BE PERMITTED IN FLOOR SLABS WITHOUT APPROVAL BY STRUCTURAL ENGINEER.
- H) ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS:
- COLUMN FOOTINGS 4,000 PSI
WALL FOOTINGS 4,000 PSI
SLAB ON GRADE 4,000 PSI
PRECAST CONCRETE 5,000 PSI
ALL OTHER CONCRETE 4,000 PSI
- J) CONCRETE SLUMP SHALL BE 3" TO 5" AT TIME OF PLACEMENT.
- K) CONCRETE MIX DESIGNS SHALL BE ESTABLISHED BY THE SUPPLIER IN ACCORDANCE WITH THE ABOVE REFERENCED STANDARDS. MIX DESIGNS SHALL BE SUBMITTED WITH BACK-UP DATA PER ACI 318 TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
- L) ALL HORIZONTAL CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN 6% TO 8% ENTRAINED AIR.
- M) ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH THE ABOVE REFERENCED STANDARDS AND CONCRETE TEST REPORTS SHALL BE AVAILABLE AT THE JOB SITE.

7. WATER PROOFING SYSTEMS -

- A) WATER PROOFING SYSTEMS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SPECIFIC SURFACES THAT REQUIRE WATER PROOFING AND FOR SPECIFIC WATER PROOFING SYSTEMS.

8. STAIRS, GUARD RAILS, and HAND RAILS -

- A) UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS, ALL STAIRS AND LANDINGS ARE TO BE CONCRETE CONSTRUCTED.

30% OVERALL AND 95% FAST TRACK SUBMITTAL
DESIGN DEVELOPMENT - NOT FOR CONSTRUCTION

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