GENERAL STRUCTURAL NOTES

CODE AND DESIGN LOADS

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE.
2. GRAVITY: ROOF LIVE LOAD = 20 PSF (REDUCIBLE) ROOF Snow LOAD = 30 PSF (30 PSF GROUND) WALL LOAD (SOLAR MODULAR) = 3 PSF
3. WIND: MAXIMUM SPEED - 115 MPH (3 SEC QUIET) EXPOSURE - C2 DESIGN WIND PRESSURES BASED ON A 1.5 MAXIMUM G/MINUENT WIND WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE CONSTRUCTION CODES.
4. ELECTRICAL DESIGN: 72 CELL TYPICAL DETAILS MAY OR MAY NOT BE CUT ON THE DRAWINGS, AND DETAILS SHOWN ON THE DRAWINGS DO NOT ALTER THE GENERAL REQUIREMENTS FOR THE INSTALLATION SITE.
5. SOLAR DESIGN: ALL OF THE MATERIALS SHOWN ON THE DRAWINGS, AND DETAILS SHOWN ON THE DRAWINGS DO NOT ALTER THE GENERAL REQUIREMENTS FOR THE INSTALLATION SITE.

GENERAL

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS PRESENT THE GENERAL ARRANGEMENT OF THE STRUCTURE. THEY DO NOT INDICATE THE BEAMS OR SECTIONS, OR SEQUENCE OF CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK THAT CONFORMS WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY.
3. CONSTRUCTION MATERIALS SHALL BE USED EXCLUSIVELY ON THE APPLICATION AND QUALITY REQUIRED BY THE MANUFACTURER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE SUBCONTRACTORS AND EQUIPMENT SUPPLIERS, EQUIPMENT BEING SUPPORTED BY OR SUSPENDED FROM THE STRUCTURE SHALL BE COORDINATED WITH THE MANUFACTURER. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, RAILS, ETC.) WITHOUT WRITTEN APPROVAL FROM THE MANUFACTURER OF RECORD THROUGH THE MANUFACTURER.
4. ANY DISCREPANCIES OR OMISSIONS BETWEEN THE CONTRACTOR'S DETAIL AND THE DRAWINGS SHALL BE SUBJECT TO THE MANUFACTURER OF RECORD. IF THE MANUFACTURER OF RECORD DETERMINES THAT THE DISCREPANCY OR OMISSION CONFORMS TO THE DRAWINGS, THE REQUIREMENT SHALL BE CONSIDERED AS CHANGED.
5. CONSTRUCTION OF Bolted Joint SHALL BE CONFORM TO AIA J1-98, WHICH SPECIFIED THE INSTALLATION OF THE BOLTED JOINT.
6. ALL LITIGATION ELECTRODE SHALL CONFORM TO AWS D1.1, GRADE E70XX. ALL WELDING PER AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON FABRICATION DRAWINGS ARE SHOWN AS WELDS AND SHALL BE SHOWN ON SHOP DRAWINGS. FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDIPENDENT TESTING LABORATORY.
7. ADDITIONAL WELDING ON BASE PLATES AND BEARING PLATES SHALL BE FIVE STAR GROUT OR AN EQUAL NONMETALLIC SHRINKAGE-RESISTANT GROUT WITH COLUMN COMPRESSIVE STRENGTH OF 3000 PSI.
8. ALL HOT ROLLED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AS PER ASTM-A 123.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE PROVISIONS FOR REINFORCED CONCRETE".
2. ADJUSTMENT OF THE CEMENT CONTENT TO CONFORM TO ASTM C315. TO A MAXIMUM 28 DAY COMPRESSIVE STRENGTH OF 7000 PSI.
3. ADDITION OF WATER FOR THE MIXTURE WITH INSUFFICIENT SLUMP WILL AFFECT THE COMPRESSIVE STRENGTH OF THE CONCRETE. THE MIX DESIGN SHALL BE DESIGNED BY THE MANUFACTURER.
4. CONCRETE PLACEMENT: MIX DESIGNS SHALL BE DESIGNED BY THE MANUFACTURER.
5. CONCRETE SHALL BE READY MIXED CONCRETE IN ACCORDANCE WITH ACI 301.
6. ALL THE CONCRETE SHOULD BE SHOWN ON THE DRAWINGS.
7. ALL CONCRETE SHALL BE SHOWN ON THE DRAWINGS.
8. ALL CONCRETE SHALL BE SHOWN ON THE DRAWINGS.
9. CONCRETE PLACEMENT: ALL THE CONCRETE SHOULD BE SHOWN ON THE DRAWINGS.
10. ALL THE CONCRETE SHOULD BE SHOWN ON THE DRAWINGS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE LATEST ASPC SPECIFICATIONS, DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. CHAIN LINK DESIGN: STRUCTURAL DESIGN PER ASTM A30, GRADE 60 (PSF)
3. STRUCTURAL TUBE DESIGN: STRUCTURAL DESIGN PER ASTM A500, GRADE B (FS).
4. ROLLING / BEAM DESIGN: ASME SECTION IX, 10.7.1, 10.7.2, ECT.
5. ALL CONCRETE POURING SHALL BE DONE IN CONFORMANCE WITH THE COST-EFFECTIVE ERECTION OF STRUCTURAL STEEL.
6. ALL CONCRETE POURING SHALL BE DONE IN CONFORMANCE WITH THE COST-EFFECTIVE ERECTION OF STRUCTURAL STEEL.
7. ALL CONCRETE POURING SHALL BE DONE IN CONFORMANCE WITH THE COST-EFFECTIVE ERECTION OF STRUCTURAL STEEL.
8. ALL CONCRETE POURING SHALL BE DONE IN CONFORMANCE WITH THE COST-EFFECTIVE ERECTION OF STRUCTURAL STEEL.
9. ALL CONCRETE POURING SHALL BE DONE IN CONFORMANCE WITH THE COST-EFFECTIVE ERECTION OF STRUCTURAL STEEL.

FOUNDATIONS

1. ALL SLABS AND FOOTINGS SHALL BE CONFORM TO THE LATEST ASPC SPECIFICATIONS, DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ASPC SPECIFICATIONS, DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
3. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ASPC SPECIFICATIONS, DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
4. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ASPC SPECIFICATIONS, DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
5. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST ASPC SPECIFICATIONS, DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
#3 TIES ARE REQUIRED TO BE SPACED AT 12" O.C. MAX.

(8) #5 VERTICAL BARS (IN LIEU OF 5)

9'-2" (AT EXT. COL. W/ NO CONC. SLAB RESTRAINT AT GRADE)

135° HOOK, TYPICAL

TYPICAL LOAD PURLIN

CONNECT SELF DRILLING SCREW CLAMP TO CEE PURLIN FRAME WITH 1/4" DIAMETER SELF-DRILLING SCREWS - TYPICAL

CONNECT CEE PURLIN TO W12 X 35 WELDMENT WITH 3/4" BEAM CLAMP - TYPICAL

CONNECT CEE PURLIN TO W12 X 35 WELDMENT WITH 3/4" BEAM CLAMP - TYPICAL

2'-0" Ø TUBE STEEL COLUMN

STEEL COLUMN - TYPICAL

1 3/8" X 12" X 1'-8" STEEL BASE PLATE, IN LIEU OF STANDARD ANCHOR BOLTS

4 1/2" ANCHOR BOLTS 14" MAN.

4 1/2" ANCHOR BOLTS IN UPPER 9" OF PIER

CONCRETE PIER FOUNDATION

138˚ HOOK, TYPICAL

AS TIES AT 16" O.C., MAXIMUM

(9) AS VERTICAL BARS IN 1ST FLOOR

AS TIES ARE REQUIRED TO BE SPACED AT 12" O.C. MAX.