

0128991891CONTORUB-6-SPECIFICATIONS.dgn

MODEL: 6-6

PLOTTED BY: ghh

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CONTROL BUILDING SPECIFICATIONS

1. FURNISH ALL LABOR AND MATERIALS TO DESIGN, SUPPLY AND CONSTRUCT A PRE-ENGINEERED STEEL FRAMED BUILDING AND CAST-IN-PLACE CONCRETE FOUNDATION IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC), 2003 AND LOCAL BUILDING CODES AND AMENDMENTS AS PER LOCAL AUTHORITY HAVING JURISDICTION, UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED ELSEWHERE.
2. SYSTEM DESCRIPTION: CLEAR SPAN RIGID FRAME COMPLETE WITH TAPERED COLUMNS, TAPERED BEAMS, POST AND BEAM ENDWALL, CROSS-BRACING AT SIDE AND END WALLS. ROOF: GABLE TYPE WITH 1:12 SLOPE.
3. MANUFACTURER OF THE STEEL BUILDING SYSTEM SHALL BE CERTIFIED IN ACCORDANCE WITH AISC CERTIFICATION STANDARD MD. SUBMIT COPY OF CERTIFICATION PRIOR TO FABRICATION.
4. SUBMIT THE FOLLOWING DOCUMENTS FOR THE PRE-ENGINEERED BUILDING:
 - .1 CERTIFICATION THAT BUILDING IS IN ACCORDANCE WITH CONTRACT REQUIREMENTS.
 - .2 STRUCTURAL ANALYSIS CERTIFICATION OF BUILDING SYSTEM.
5. SUBMIT A COMPLETE SET OF PERMITABLE BUILDING DRAWINGS FOR REVIEW PRIOR TO FABRICATION. DRAWINGS SHALL BE STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF IDAHO. INDICATE ROOF SYSTEM, WALL CLADDING, INSULATION DETAILS FRAMED OPENINGS, ACCESSORIES, SCHEDULE OF MATERIALS AND FINISHES, ANCHOR BOLT PLAN AND FRAME/COLUMN FOUNDATION REACTIONS. BUILDING TO MEET OR EXCEED IBC (LATEST ENFORCED EDITION) ENERGY CODE.
6. SUBMIT A COMPLETE SET OF PERMITABLE BUILDING FOUNDATION DRAWINGS AND SPECIFICATIONS FOR REVIEW PRIOR TO CONSTRUCTION. DRAWINGS SHALL BE STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF IDAHO. INDICATE DESIGN SOIL BEARING PRESSURE, CONCRETE STRENGTH, GRADE OF REINFORCING, EXCAVATION AND BACKFILL SPECIFICATIONS.
7. STRUCTURAL DESIGN CRITERIA:
 - .1 STRUCTURAL DESIGN SHALL BE IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE (IBC)
 - .2 FLOOR LIVE LOAD:
 - 100 PSF UNLESS NOTED OTHERWISE.
 - BULK SLUDGE STORAGE: 370 PSF + ASSUMED CATERPILLAR 936 WHEEL LOADER (OPERATING WEIGHT = 27 000 lbs).
 - CAUSTIC TANK: 84 000 lbs.
 - TANK = 9'-6" Ø x 13'-0" H. CONFIRM PRIOR TO DESIGN.
 - CENTRIFUGE: LOADS AS PER CENTRIFUGE SUPPLIER REFERENCE DRAWINGS.
 - .3 ROOF LIVE LOAD = 20 PSF.
 - .4 ROOF SNOW LOAD:
 - GROUND SNOW LOAD, $P_g = 20$ PSF.
 - FLAT ROOF SNOW LOAD, $P_f = 20$ PSF.
 - SNOW EXPOSURE FACTOR, $C_e = 1.2$
 - SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.0$.
 - THERMAL FACTOR $C_t = 1.0$, EXCEPT BULK SLUDGE STORAGE AREA, $C_t = 1.2$
 - .5 WIND LOAD:
 - BASIC WIND SPEED = 90 MPH.
 - WIND LOAD IMPORTANCE FACTOR, $I_w = 1.0$.
 - BUILDING CATEGORY = II.
 - WIND EXPOSURE CATEGORY = B.
 - COMPONENTS AND CLADDING: IN ACCORDANCE WITH SECTION 1609.6, "SIMPLIFIED WIND LOAD METHOD".

- .6 EARTHQUAKE DESIGN DATA:
 - SEISMIC IMPORTANCE FACTOR, $I_E = 1.0$.
 - SEISMIC USE GROUP = I.
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 - $S_s = 20\%$.
 - $S_1 = 10\%$.
 - SITE CLASS = D.
 - SPECTRAL RESPONSE COEFFICIENTS:
 - $S_{ds} = 0.21$
 - $S_{d1} = 0.16$
 - SEISMIC DESIGN CATEGORY = C.
 - BASIC SEISMIC FORCE RESISTING SYSTEMS:
 - FINAL SYSTEM(S) TO BE DETERMINED BY METAL BUILDING SUPPLIER.
 - BRACED FRAMES AT EXTERIOR WALL WHERE POSSIBLE, OTHERWISE MOMENT FRAMES EXTERIOR AND INTERIOR.
 - DESIGN BASE SHEAR:
 - TO BE DETERMINED BY METAL BUILDING SUPPLIER.
 - SEISMIC RESPONSE COEFFICIENT, C_s :
 - TO BE DETERMINED BY METAL BUILDING SUPPLIER.
 - RESPONSE MODIFICATION FACTOR, R:
 - TO BE DETERMINED BY METAL BUILDING SUPPLIER.
 - ANALYSIS PROCEDURE USED:
 - TO BE DETERMINED BY METAL BUILDING SUPPLIER.
7. IN ADDITION TO THE BUILDING DEAD LOADS, INCLUDE IN THE DESIGN, A MECHANICAL ALLOWANCE OF 5 PSF.
8. CONCRETE DESIGN SHALL BE TO ACI 318.
9. ROLLED AND BUILT-UP STEEL SHAPE DESIGN SHALL BE TO AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
10. COLD-FORMED STEEL SHAPES SHALL BE DESIGNED IN ACCORDANCE WITH "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS".
11. A GEOTECHNICAL REPORT DATED FEB 27, 2006 BY XCELL ENGINEERING INC. IS AVAILABLE UPON REQUEST. THE BUILDING SUPPLIER TO DETERMINE AND / OR CONSIDER THE NEED FOR ADDITIONAL INFORMATION AS PART OF THE BUILDING PACKAGE SUPPLY.
12. MASONRY DESIGN TO INTERNATIONAL BUILDING CODE (IBC) REQUIREMENTS.
13. CONCRETE FLOOR SLABS TO BE MINIMUM 6" AND REINFORCED WITH #4 @ 14" c/c MINIMUM.
14. SOIL BEARING PRESSURE: DESIGN CONCRETE AND FOOTINGS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 psf.

8. MATERIALS:

1. STRUCTURAL STEEL: ASTM A572 GRADE 50 MINIMUM.
2. SECONDARY FRAMING STEEL: ASTM A1011 GRADE 55.
3. SHEET STEEL: ZINC COATED (G90) STEEL TO ASTM A653, MINIMUM THICKNESS - 26 GAUGE; PRE FINISHED WITH FACTORY FINISH COATING SYSTEM, COLOR BY OWNER.
4. ALL CONCRETE WORK AND METHODS OF CONCRETE CONSTRUCTION SHALL CONFORM TO THESE SPECIFICATIONS AND THE LATEST EDITIONS OF THE FOLLOWING: ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"; ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND THE 2003 INTERNATIONAL BUILDING CODE AND HOWARD COUNTY AMENDMENTS THERE TO.
5. PRIMER: BUILDING MANUFACTURER'S STANDARD PRIMER.
6. WALL AND ROOF INSULATION: MINIMUM R12, COMPLETE WITH REINFORCED INTEGRAL VAPOUR BARRIER.

9. ROOF SYSTEM: MANUFACTURER'S STANDARD STANDING SEAMROOF SYSTEM, 24 GA. MINIMUM SHEET THICKNESS.
10. LINER PANEL: INTERIOR FACE OF EXTERIOR WALLS, 26 GA. G90 COATED STEEL WITH PRE-PAINTED FINISH.
11. GUTTERS AND DOWNSPOUTS: 26 GA. G90 COATED STEEL WITH PRE-PAINTED FINISH. PROVIDE CONCRETE SPLASH PADS AT EACH DOWNSPOUT.
12. MANDOORS: 1 3/4" THICK FULL FLUSH TYPE, 16 GAUGE GALVANIZED STEEL DOOR PANELS, 14 GAUGE FLUSH MOUNTED END CHANNELS, POLYURETHANE FOAM BOARD CORE, STANDARD HARDWARE WITH LOCKS KEYPED AS PER OWNER'S INSTRUCTIONS.

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