

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors:

Snow (I_s)

1.0

Seismic (I_e)

1.0

Live Loads:

Roof

20.0

psf

Floor

psf

Ground Snow Load:

20.0

psf

Wind Load:

Ultimate Wind Speed

115

mph (ASCE-7)

Exposure Category

B

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☒ C ☐ D

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5)

☐ I

☒ II

☐ III

☐ IV

S_s

21.6

%

S₁

9.1

%

Site Classification (ASCE 7)

☐ A

☐ B

☐ C

☒ D

Data Source

☐ Field Test

☒ Presumptive

☐ Historical Data

Basic structural system (check one)

☐ Bearing Wall

☐ Dual w/ Special Moment Frame

☒ Building Frame

☐ Dual w/ Intermediate R/C or Special Steel

☐ Moment Frame

☐ Inverted Pendulum

Analysis Procedure:

☒ Simplified

☐ Equivalent Lateral Force

☐ Dynamic

Architectural, Mechanical, Components anchored?

☐ Yes

☒ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report)

psf

Presumptive Bearing capacity

2000

psf

Pile Size Type and Capacity

NOTES

GENERAL

1. THESE NOTES SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE PRE-ENGINEERED METAL BUILDING FABRICATION DRAWINGS AND OTHER CONTRACT DOCUMENTS.

2. DESIGN LOADS

ROOF
FLOOR
WIND
SEISMIC

SEE PREENGINEERED BUILDING
DESIGN LETTER

THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL SLEEVES, PADS, DEPRESSIONS, OPENINGS E.C. AS REQUIRED BY THE VARIOUS TRADES.

FOUNDATIONS

1. BEARING 2000 PSF PRESUMPTIVE. NO FILL OVER 0.5 FT. WITHOUT TESTING BY GEOTECHNICAL ENGINEER.

2. FILL MATERIAL TO BE FREE OF DEBRIS, ROOTS AND ORGANIC MATERIAL. FILL TO BE PLACED AND COMPACTED TO 95 PERCENT DENSITY PER ASTM D-698.

CONCRETE

1. ALL CONCRETE SHALL HAVE ASTM AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF. COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60

2. ALL CONTINUOUS BARS SHALL BE LAP SPliced 36 DIA.

3. CONCRETE COVERAGE 3 INCHES

4. PROVIDE HORIZONTAL CORNER BARS AT CORNERS AND INTERSECTIONS OF WALLS, BEAMS AND FOOTINGS. LAP SPLICES 36 BAR DIA.

5 ANCHOR ROD DETAIL
SCALE: 3" = 1'-0"

NOTES:

1. C.J. DENOTES CONSTRUCTION OR CONTROL JOINT SEE DETAIL 4/S1.

FOOTING SCHEDULE

MARK	DIMENSIONS		REINFORCING	HAIRPINS	ANCHOR BOLT
	DEPTH FROM FINISH FLOOR	SIZE	ASTM GRADE 60	ASTM GRADE 60	ASTM F1554 GRADE 36
F77	8"	7'-0"x7'-0"x 1'-2"	7- #5 EACH WAY TOP & BOTTOM	SEE PLAN	SEE DETAIL 5/S1
F99	8"	9'-0"x9'-0"x 1'-4"	10- #5 EACH WAY TOP & BOTTOM	SEE PLAN	SEE DETAIL 5/S1

4 CONTROL JOINT SECTION
SCALE: NOT TO SCALE

3 TYPICAL EXTERIOR FOOTING DETAIL

2 TYPICAL EXTERIOR FOOTING SECTION
SCALE: NOT TO SCALE

1 PERIMETER FTG. DETAIL
SCALE: NOT TO SCALE

PROJECT
MID CAROLINA REGIONAL AIRPORT
3670 AIRPORT LOOP
SALISBURY, NC

DRAWING
FOUNDATION PLAN
FOUNDATION DETAILS

JUNE 2024
Scale: 1/8" = 1'-0"
S1