

DESIGN LOADS:

REFERENCE: BUILDING CODE OF NORTH CAROLINA (LATEST EDITION)
 CLASSIFICATION OF BUILDING: CATEGORY/USE GROUP II
 FLOOR: 100 PSF
 WIND: 144 MPH ASD (IN ACCORDANCE WITH ASCE-7)
 IMPORTANCE FACTOR: WIND 1.0
 SEISMIC 1.0
 SNOW 1.0
 EXPOSURE: C
 GROUND SNOW: 10 PSF

LATERAL DESIGN CONTROL:
 EARTHQUAKE: X
 WIND: X

CALCULATED WIND BASE SHEARS (FOR MUTERS):
 $V_x = 16.1$ K
 $V_y = 16.1$ K

ANALYSIS PROCEDURE:
 EQUIVALENT LATERAL FORCE

SEISMIC DESIGN PARAMETERS:
 SPECTRAL RESPONSE ACCELERATION: $S_{ms} = 0.128$ $S_{ds} = 0.125$
 $S_{m1} = 0.143$ $S_{d1} = 0.236$
 SEISMIC USE GROUP: I
 SEISMIC DESIGN CATEGORY: C
 SITE CLASSIFICATION: D

BASIC STRUCTURAL SYSTEM: BUILDING FRAME SYSTEM

RESPONSE MODIFICATION FACTOR: $R_x = 3$
 $R_y = 3$
 DEFLECTION AMPLIFICATION FACTOR: $C_{dx} = 3$
 $C_{dy} = 3$

BUILDING HEIGHT LIMIT, FEET: H = NL
 SEISMIC BASE SHEAR: V = 205.5 K

FOUNDATIONS

1. PRESUMED SOIL BEARING CAPACITY IS 1500 PSF ON FIRM VIRGIN SOIL OR COMPACTED FILL.
2. FILL MATERIAL SHALL BE FREE OF ROOTS, WOOD OR OTHER ORGANIC MATERIAL.
3. FILL SHALL BE PLACED IN 8 INCH LIFTS AND COMPACTED TO 95 PERCENT OF THE OPTIMUM DENSITY AS DEFINED BY ASTM D-698.
4. PROOFROLLING SHALL BE CONDUCTED FOR BUILDING SUBGRADE USING 10 TON MIN. USING A FULLY LOADED DUMP TRUCK OR OTHER EQUIPMENT APPROVED BY THE OWNERS TESTING AGENCY. PROOFROLLING SHALL BE DONE AFTER A SUITABLE PERIOD OF DRY WEATHER TO AVOID DEGRADING AN OTHERWISE ACCEPTABLE SUBGRADE.

CONCRETE

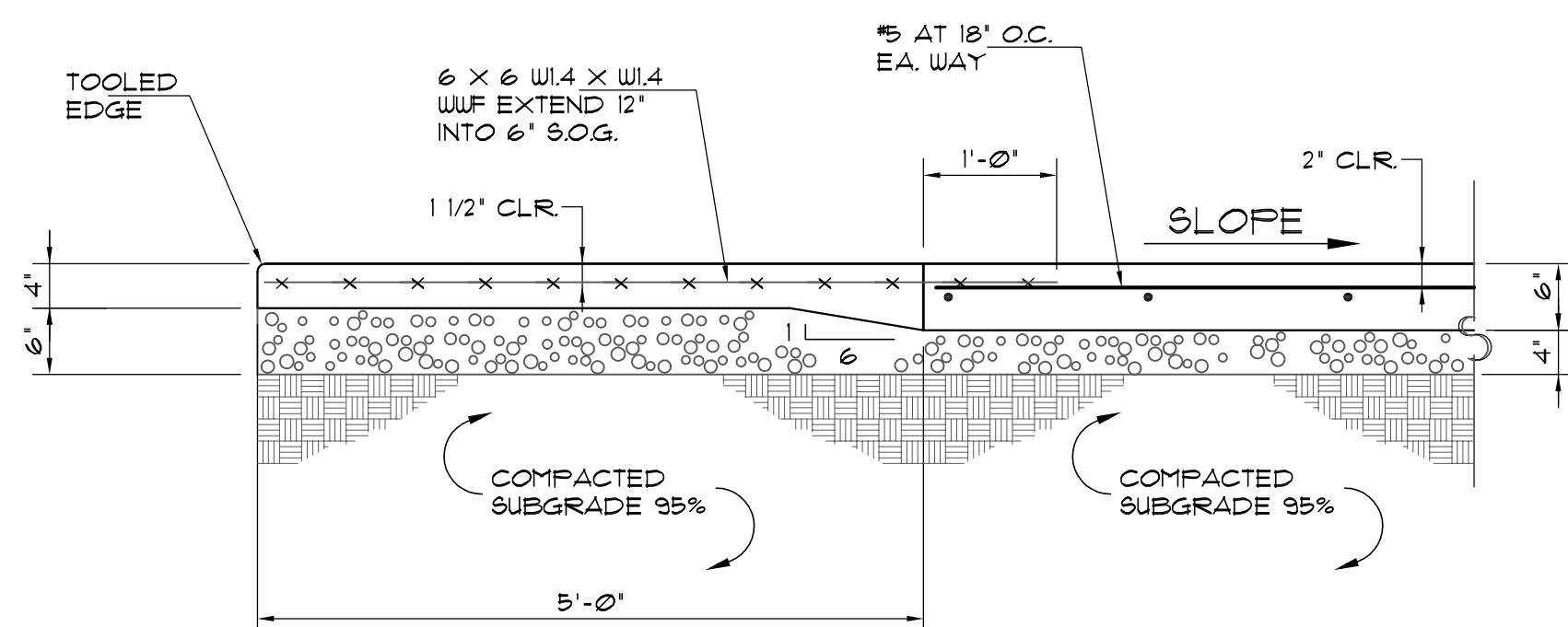
1. 'CJ' DENOTES LOCATION OF CONTROL JOINTS IN SLAB ON GRADE. CONTROL JOINTS IN SLAB ON GRADE SHALL BE SAW CUT.
2. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14).
3. ALL NORMAL WEIGHT CONCRETE SHALL HAVE ASTM C-33 AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI AT 28 DAYS, MINIMUM.

REINFORCING STEEL

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

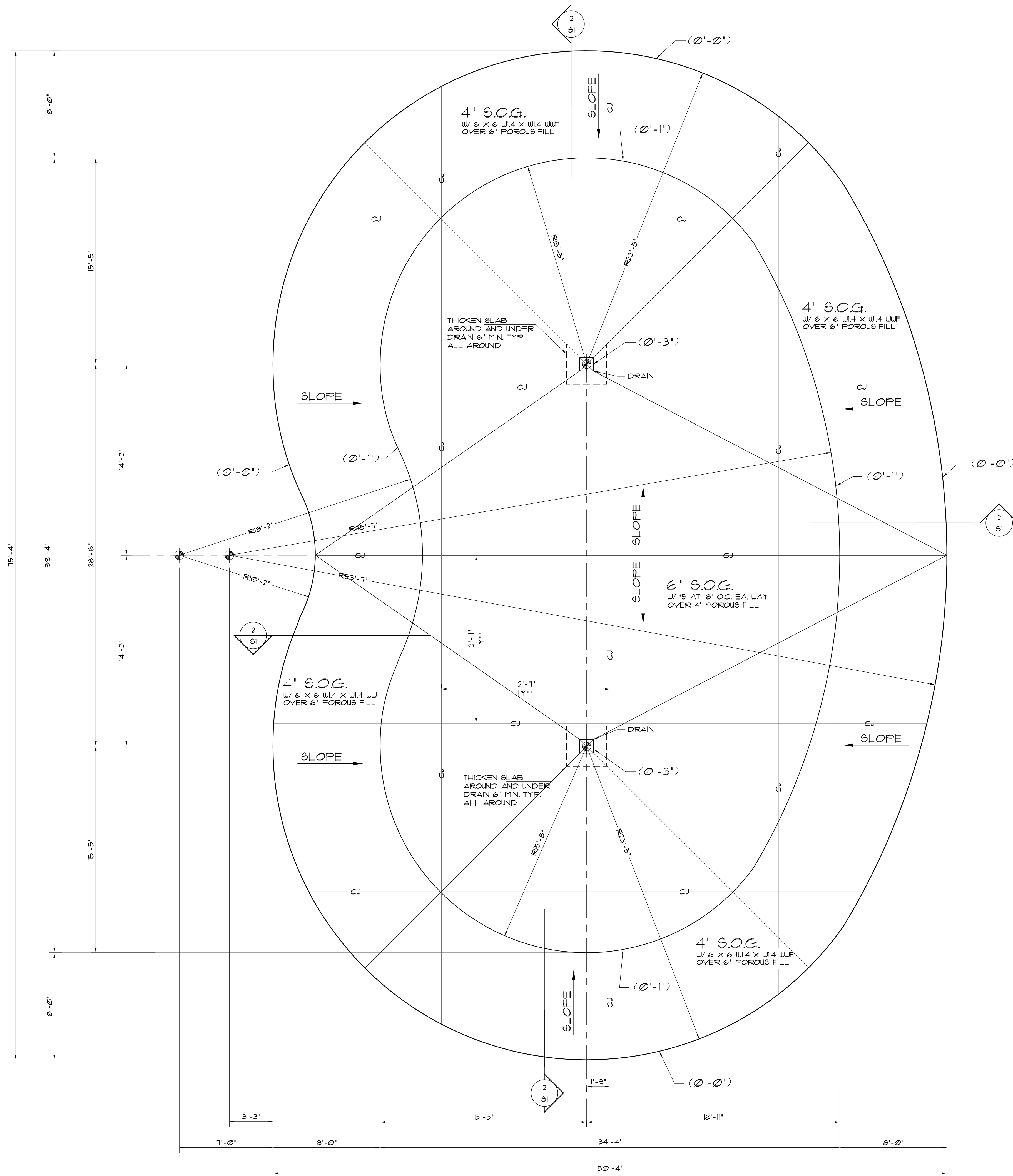
GENERAL NOTES

SCALE: 3/4" = 1'-0" 3



SECTION

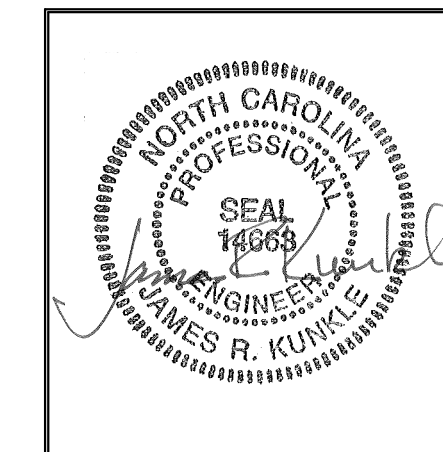
SCALE: 3/4" = 1'-0" 2



FOUNDATION PLAN

SCALE: 1/4" = 1'-0" 1

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SPLASH PAB
 ERWIN, NC
 BUILDER: CAROLINA RECREATION

DATE:
 FEBRUARY 28, 2020

REVISIONS:

FOUNDATION PLAN

SHEET NUMBER

S1