

CONCRETE CONSTRUCTION:

1. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 304, 305, 306, 315, 318, AND 347 AND CONCRETE REINFORCING STEEL INSTITUTE MANUAL OF STANDARD PRACTICE UNLESS OTHERWISE NOTED IN THESE CONTRACT DOCUMENTS.
2. CONCRETE FOR FOOTINGS:  $F'_c = 3,000$  psi (28 DAY)
3. CONCRETE FOR FLATWORK:  $F'_c = 3,500$  psi (28 DAY)
4. REINFORCING STEEL:
  - A. ASTM A615 GRADE 40 STEEL
  - B. MINIMUM SPLICE LAP = 30 BAR DIAMETERS
  - C. HORIZONTAL REINFORCING STEEL SHALL BE CONTINUOUS AROUND THE CORNERS AND SHALL MEET THE REQUIREMENTS OF MINIMUM SPLICE LAP.
  - D. WELDED WIRE REINFORCEMENT SHALL MEET ASTM A706, GRADE 60.
5. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" + / - (ASTM C-143) AS DELIVERED IN THE FIELD. THE CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY.
6. AGGREGATE SIZE =  $\frac{3}{4}$ " (MAXIMUM)
7. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN ANY CONCRETE POURS UNLESS SHOWN ON THE PLANS OR APPROVED IN WRITING BY THE ENGINEER.
8. REINFORCING STEEL COVERAGE SHALL BE IN ACCORDANCE WITH ACI 315 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
9. MINIMUM CLEAR COVERAGE OF CONCRETE OVER REINFORCING STEEL SHALL NOT BE LESS THAN THE FOLLOOWING (UNLESS NOTED OTHERWISE).
 

A. CONCRETE PLACED AGAINST TRENCHED EARTH	3"
B. CONCRETE PLACED AGAINST FORM IN EARTH	2"
C. UN-TIED ELEMENTS (ELEVATED SLABS AND WALLS)	1"
D. TIED ELEMENTS (COLUMNS AND ELEVATED BEAMS)	$\frac{1}{2}$ "
10. FLY ASH MAY BE USED AT A RATE NOT TO EXCEED 15% OF THE TOTAL CEMENT CONTENT.
11. CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND / OR DE-ICING CHEMICAL SHALL CONTAIN 6% ( $\pm 1\%$ ) ENTRAINED AIR BY VOLUME.
12. STIRRUPS AND TIES SHALL COMPLY WITH CONCRETE REINFORCING STEEL INSTITUTE (CRSI) SUPPLEMENTARY REQUIREMENTS FOR IMPROVED BENDABILITY
13. MINIMUM LAP DISTANCE AND HOOK LENGTHS SHALL BE AS FOLLOWS:

FOUNDATION:

1. ALL FOOTING FOUNDATIONS HAVE A DESIGN ALLOWABLE PRESSURE OF 2,000 PSF.
2. ZONES OF SOIL ENCOUNTERED AT THE BOTTOM OF THE FOOTING EXCAVATIONS DEEMED INEQUATE SHALL BE REPLACED OR REMEDIATED AS DIRECTED BY THE ENGINEER.
3. MOISTURE CONTENT OF THE SOIL SHALL NOT BE ALLOWED TO CHANGE AFTER EXCAVATION.
4. CONCRETE SHALL NOT BE PLACED ON FROZEN OR SATURATED GROUND.
5. THE BASE OF THE EXCAVATION SHALL BE FREE OF WATER AND LOOSE SOIL PRIOR TO PLACEMENT OF CONCRETE.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNUSAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE PLAN DRAWINGS OR WHEN DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF BEARING CAPACITY.

BAR	MIN. LAP	90° HOOK
#3	15"	6"
#4	20"	8"
#5	24"	10"
#6	30"	12"
#7	42"	14"

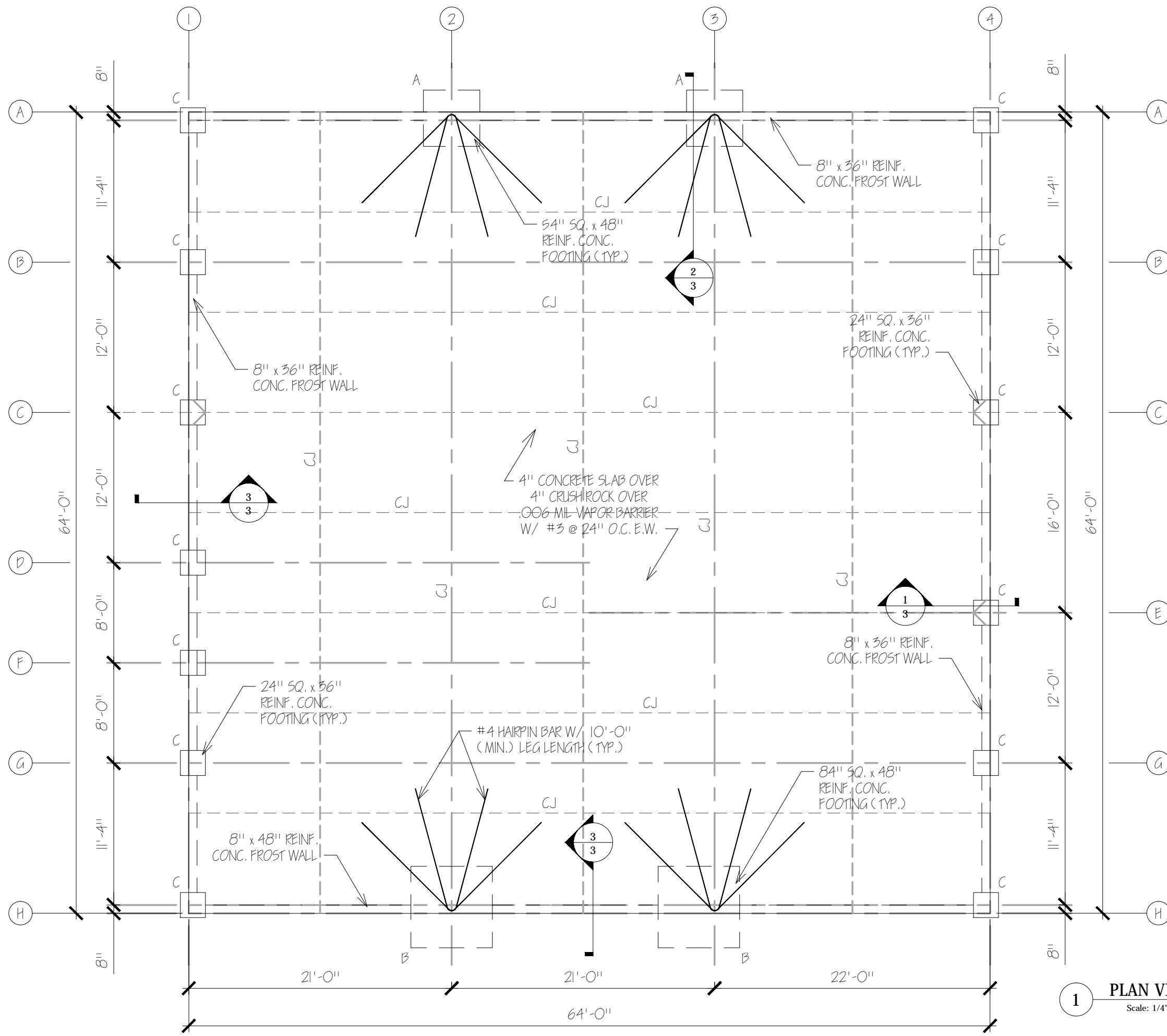
ANCHOR BOLT SUMMARY					
PIER	DIA.	TYPE	LENGTH	ENBED	PROJ
A	$\frac{3}{4}$ "	A-36	24"	$9\frac{1}{2}$ "	$2\frac{1}{2}$ "
B	$\frac{3}{4}$ "	A-36	36"	$21\frac{1}{2}$ "	$2\frac{1}{2}$ "
	$\frac{7}{8}$ "	A-36	$54\frac{1}{2}$ "	42"	$2\frac{1}{2}$ "
C	$\frac{3}{4}$ "	A-36	12"	$9\frac{1}{2}$ "	$2\frac{1}{2}$ "

NOTE:  $\frac{7}{8}$ " Ø BOLTS SHALL BE INSTALLED IN FRAME COLUMN AT H-3.

NO	DATE:	DESCRIPTION	BY	APP.

REVISIONS

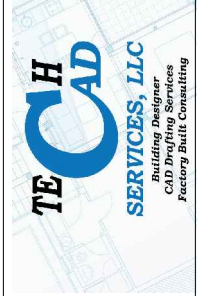
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**NOTES:**

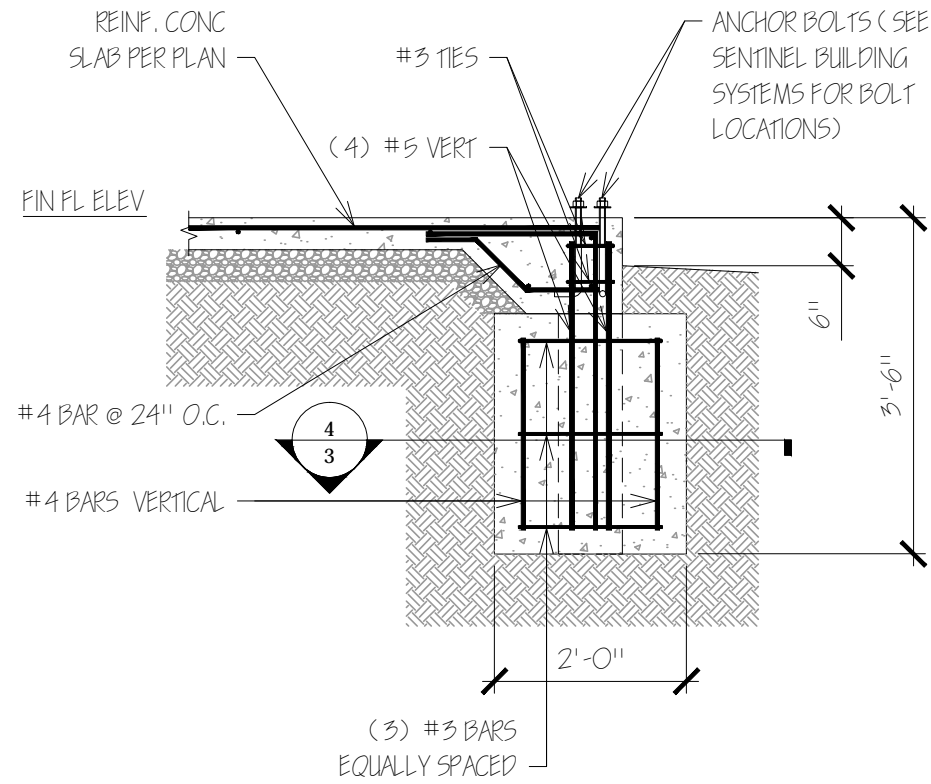
- CONTROL JOINT (C.J) MAYBE CONSTRUCTION JOINT OR SAW CUT.
- HAIR PINS BARS SHALL BE 21'-0" WITH (2) 10'-0" LEGS.

**1 PLAN VIEW**  
Scale: 1/4" = 1'-0"

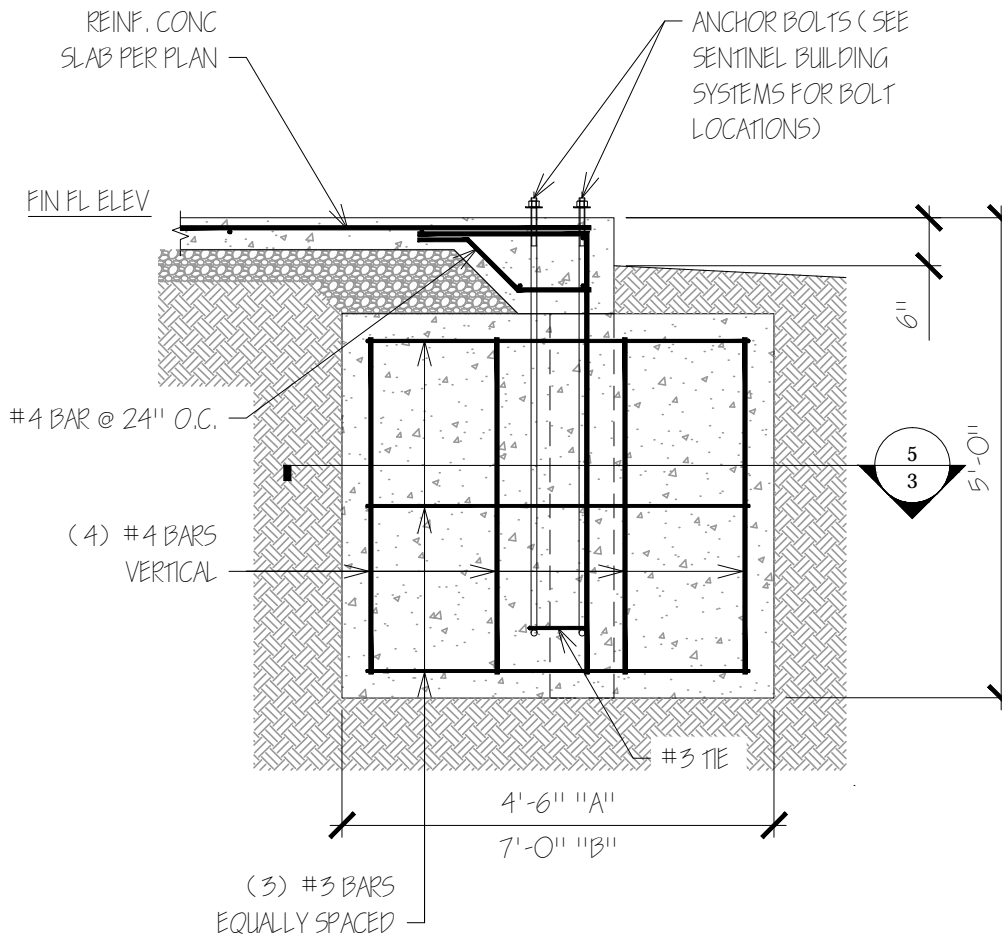


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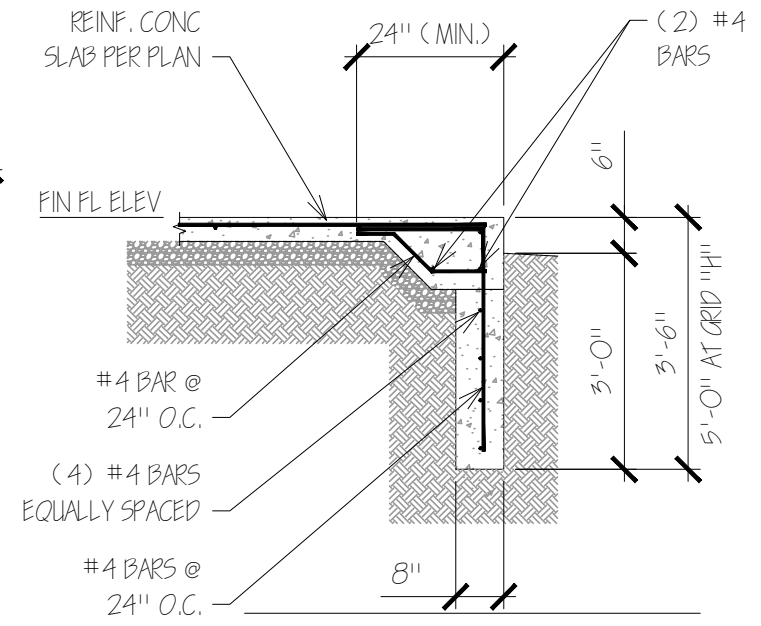
SHEET TITLE:	PLAN VIEW
PROJECT:	K-CONSTRUCTION INC BOB DAVIES; FOUNDATION PLAN
REF:	
PROJ NO:	
DATE:	Mar 19, 2015
DRAWN BY:	KH GIRARDIN
CHK'D BY:	ML SCHMIDT
DRAWING:	



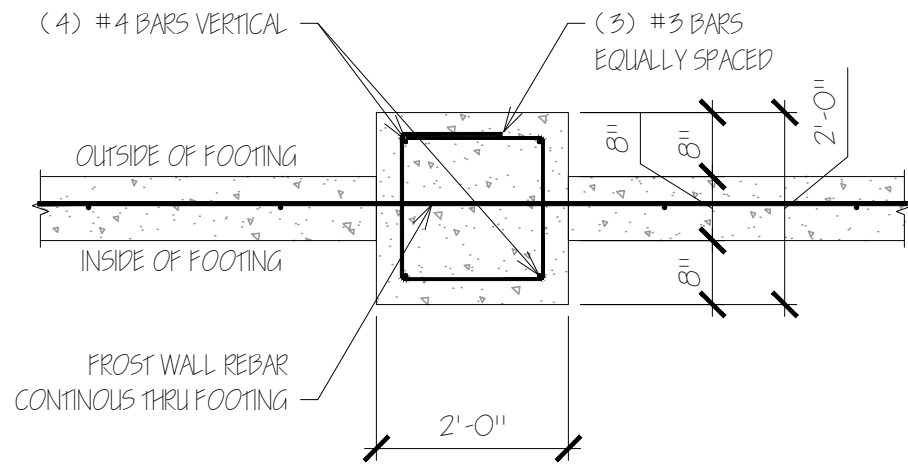
**1 COLUMN FOOTING DETAIL**  
Scale: 1/2" = 1'-0"



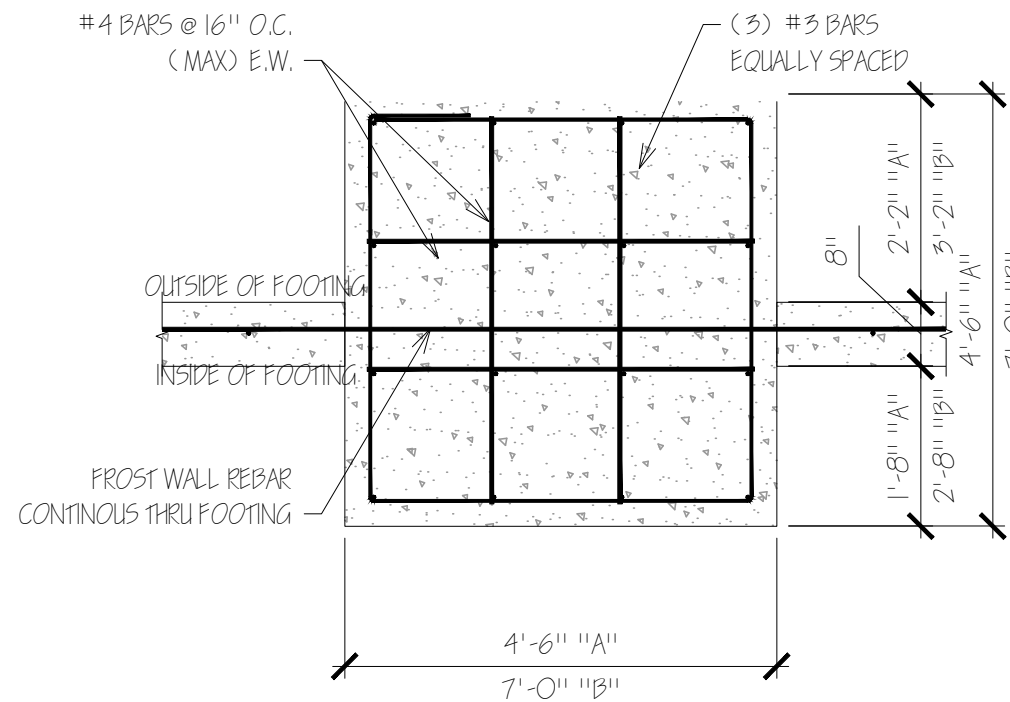
**2 COLUMN FOOTING DETAIL**  
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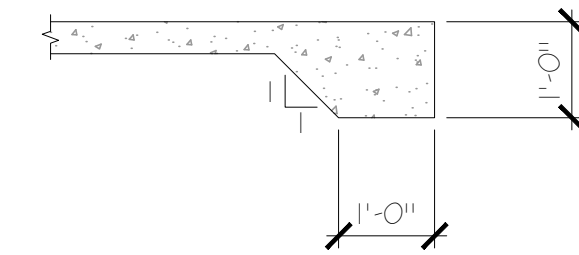
**3 FROST WALL DETAIL**  
Scale: 1/2" = 1'-0"



**4 COLUMN FOOTING DETAIL**  
Scale: 1/2" = 1'-0"



**5 COLUMN FOOTING DETAIL**  
Scale: 3/8" = 1'-0"



**6 THICKEN SLAB DETAIL**  
Scale: 3/8" = 1'-0"

PLAN SET.DWG

**SCHMIDT** Engineering Consultants, Inc.  
CIVIL, STRUCTURAL, AND ARCHITECTURAL ENGINEERING  
311 Cottonwood, Spring City, Kansas 66889 / 815 Cottonwood St., Emporia, Kansas 66801 / 620-345-0302

**TECH CAD** SERVICES, LLC  
Building Designer  
CAD Drafting Services  
Factory Built Consulting

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SHEET TITLE:	DETAILS
PROJECT:	K-CONSTRUCTION INC BOB DAVIES; FOUNDATION PLAN
REF:	
PROJ NO:	
DATE:	Mar 19, 2015
DRAWN BY:	KH GIRARDIN
CHK'D BY:	ML SCHMIDT
DRAWING:	3