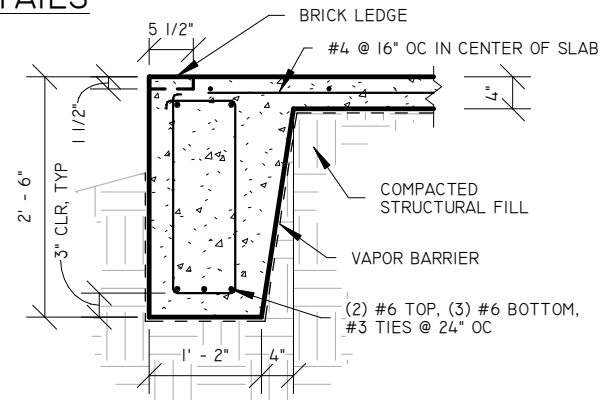
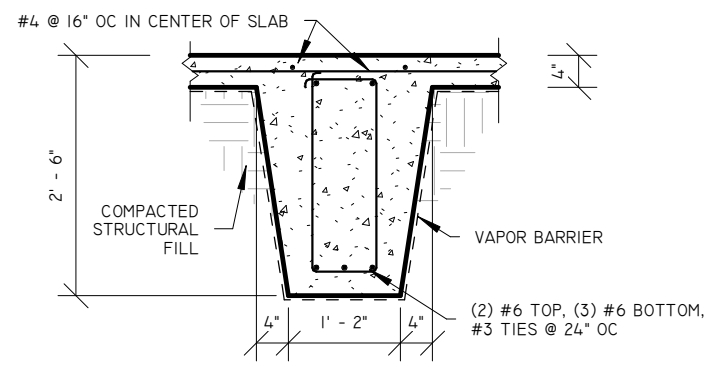


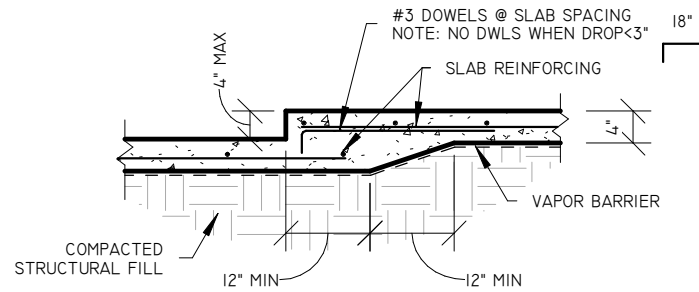
**DETAILS**



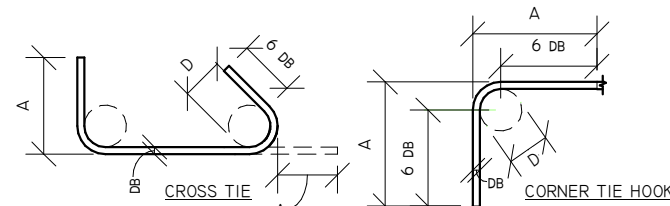
**1** EXTERIOR GRADE BEAM  
1/2" = 1'-0"



**2** INTERIOR GRADE BEAM  
1/2" = 1'-0"



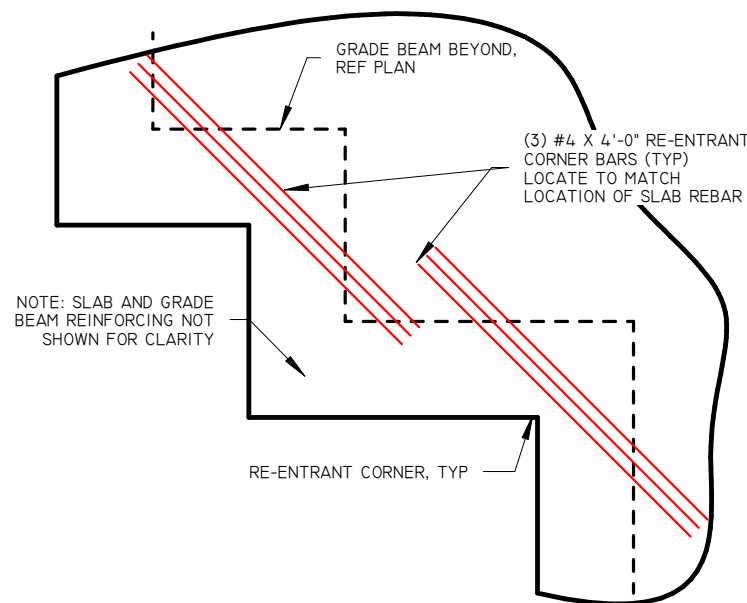
**3** INTERIOR SLAB DROP  
1/2" = 1'-0"



STIRRUP, TIE HOOK, AND LAP SPLICE SCHEDULE				
BAR SIZE	D (IN)	CROSS TIE A (IN)	CORNER TIE A (IN)	MINIMUM LAP INCHES
#3	1 1/2	4	4	17
#4	2	4 1/2	4 1/2	22
#5	2 1/2	5 1/2	6	28
#6				33
#7				72

- D= INSIDE DIAMETER OF BEND
- AT SPLICES FOR TOP BARS IN BEAMS, MULTIPLY SPLICE LENGTHS (OR Ld AS NOTED IN BEAM SCHEDULE) BY 1.3.

**4** STIRRUP, TIE HOOK, AND LAP SPLICE SCHEDULE



**5** TYPICAL RE-ENTRANT CORNER BARS  
1/2" = 1'-0"

**NOTES**

- REMOVE ALL EXISTING PAVEMENT, VEGETATION, OR ORGANIC MATTER AND STRIP THE SURFACE SOIL TO AN ADEQUATE DEPTH NECESSARY TO PROVIDE SPACE FOR THE SELECT FILL.
- SCARIFY, MOISTEN, AND COMPACT THE TOP 12" OF THE EXPOSED SUBGRADE TO 95% STANDARD PROCTOR DENSITY TEST (ASTM D698), AND TO ±2% OF THE OPTIMUM MOISTURE CONTENT.
- PROOFROLL THE SUBGRADE WITH A HEAVY RUBBER-TIRED VEHICLE WEIGHING AT LEAST 20 TONS. MAKE A MINIMUM OF 2 PASSES OVER THE AREA. WEAK OR SOFT AREAS IN THE SUBGRADE SHALL BE EXCAVATED AND REPLACED WITH SELECT FILL.
- PROVIDE A MINIMUM OF 2 FEET OF SELECT FILL TO TOP OF BUILDING PAD ELEVATION. THE SELECT FILL PAD MUST BE A UNIFORM THICKNESS. SELECT FILL SHALL CONSIST OF SANDY CLAY OR SILTY CLAY FREE OF ORGANIC MATERIAL AND TRASH.
- SELECT FILL HAVE A PLASTICITY INDEX BETWEEN 5 - 18, SHALL BE COMPACTED IN 6 INCH LIFTS TO 95% OF THE STANDARD PROCTOR DENSITY TEST (ASTM D698), AND TO ±2% OF THE OPTIMUM MOISTURE CONTENT.
- MAXIMUM BEAM SPACING SHALL BE 15 FEET AND SHALL BE CONTINUOUS OVER THE LENGTH AND WIDTH OF THE FOUNDATION.
- VAPOR BARRIER SHALL BE 10 MIL MINIMUM.
- ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- CONCRETE MIX SHALL BE 3000 PSI MIN (w/c = 0.45 MAX) WITH MAX FLY ASH CONTENT - 20%, MAX COARSE AGGREGATE SIZE - 1 INCH.
- CONCRETE COVER:
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"
  - CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BAR OR SMALLER - 1-1/2", #6 BAR TO #18 BAR - 2"
  - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: #11 BAR AND SMALLER - 3/4", #14 TO #18 BAR - 1-1/2"
- PROVIDE CHAIR SUPPORTS FOR PROPER CLEARANCE. SLAB ON GRADE CHAIRS SHALL BE SPACED AT 48 INCHES MAX OR AT EVERY THIRD BAR.
- NO HORIZONTAL JOINTS OR VERTICAL JOINTS ARE PERMITTED IN CONCRETE.

**COMMENTARY**

- THIS IS THE MINIMUM DESIGN RECOMMENDED BY 03 STRUCTURAL STUDIO FOR RESIDENTIAL SLABS ON GRADES FOR ONE-STORY LIGHT-FRAMED BUILDINGS LESS THAN 4,000 SQUARE FEET IN THE BRAZOS VALLEY REGION.
- DEPENDING ON YOUR SITE, 2 FEET OF SELECT FILL MIGHT NOT BE ADEQUATE TO AVOID FOUNDATION MOVEMENT. A SOIL REPORT AND AN ENGINEERED SLAB IS HIGHLY RECOMMENDED.
- EVEN WITH PROPER DESIGN AND CONSTRUCTION, ALL CONCRETE WILL SHOW SHRINKAGE CRACKS.
- TREES SHALL BE PLANTED AT A MINIMUM OF 75% OF THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.
- IRRIGATE VEGETATION AND SOILS ADJACENT TO THE BUILDING ON AN AS-NEEDED BASIS TO MAINTAIN UNIFORM MOISTURE CONDITIONS.
- FOR MORE INFORMATION ON FOUNDATION CARE, PLEASE CONSULT FPA-SC-07 - "FOUNDATION MAINTENANCE AND INSPECTION GUIDE FOR RESIDENTIAL AND OTHER LOW-RISE BUILDINGS", WHICH IS AVAILABLE ON THE FOUNDATION PERFORMANCE ASSOCIATION'S WEBSITE WWW.FOUNDATIONPERFORMANCE.ORG.



03 STRUCTURAL STUDIO  
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THIS PLAN SET IS:

**FOR INFORMATION ONLY**

IT IS NOT TO BE USED FOR PERMITTING, OR CONSTRUCTION.

TYPICAL DETAILS

PROJECT NUMBER 00-000

DATE 04/01/2025

DRAWN BY 03

CHECKED BY 03

**SI.0**

MINIMUM FOUNDATION STANDARDS