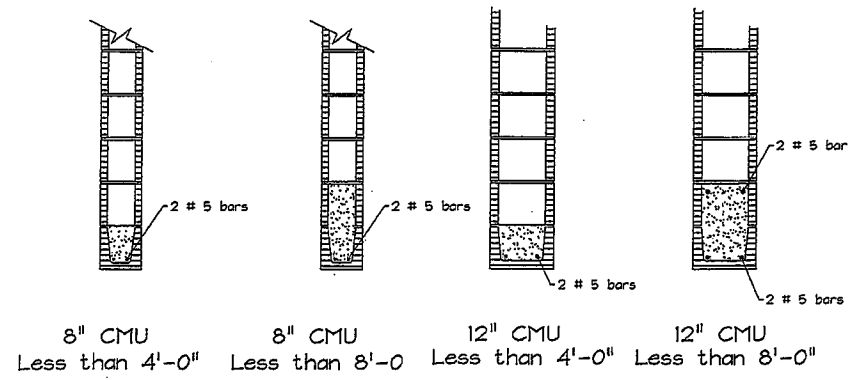


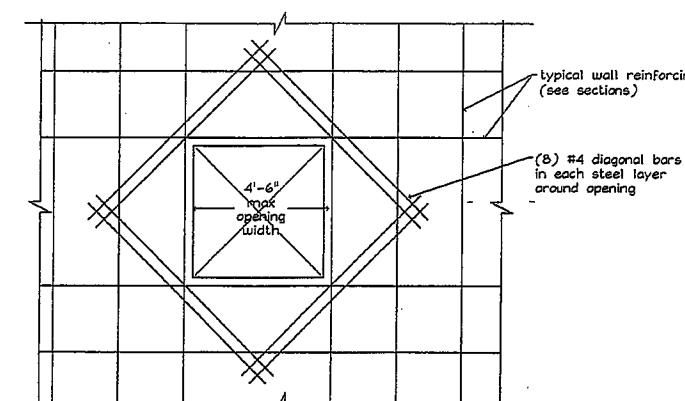


Reinforcing Steel Lap Splice Lengths				
Bar Size	Column Splices	Em. Flg & Wall Top Bars	Other Bars	CMU Wall Splices
# 3	12"	19"	15"	18"
# 4	15"	25"	19"	24"
# 5	19"	31"	24"	30"
# 6	23"	37"	29"	36"
# 7	26"	54"	42"	42"
# 8	30"	62"	48"	48"
# 9	34"	70"	54"	54"
# 10	38"	79"	61"	60"
# 11	42"	87"	67"	66"

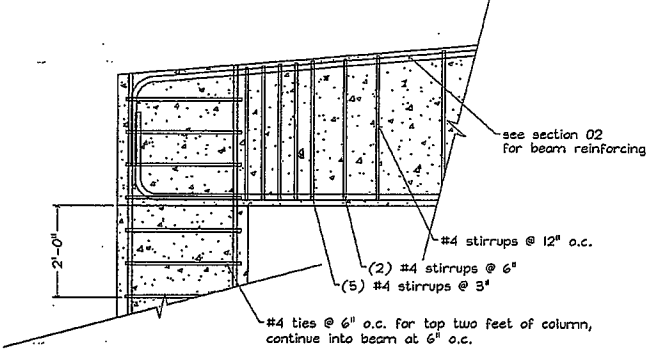
Notes:
 1. Top bars are any horizontal reinforcing steel that has another layer of steel more than 2" below the bars or reinforcing steel that has more than 12" of concrete below the bars.
 2. All horizontal reinforcing bars in walls may be detailed as "Other Bars".
 3. All corner bars may be detailed as "Other Bars".



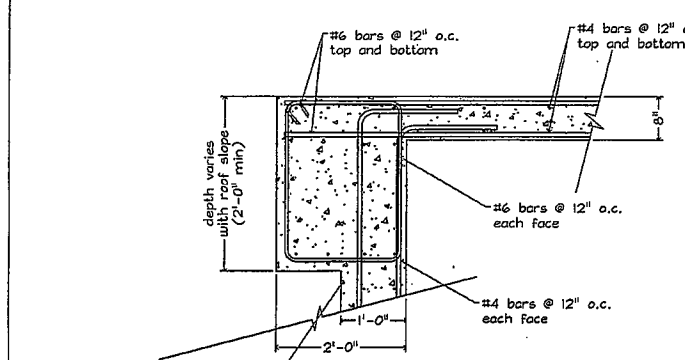
Lintel Details



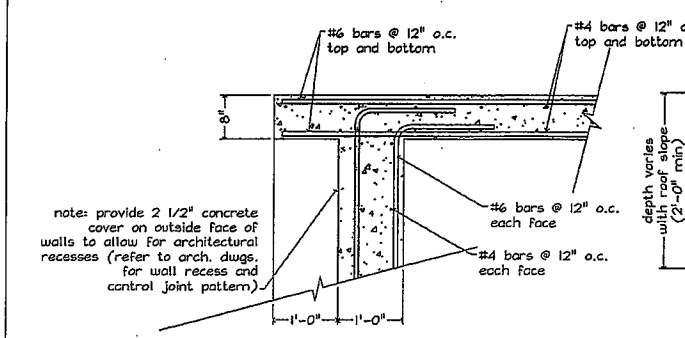
Typical wall Opening Detail



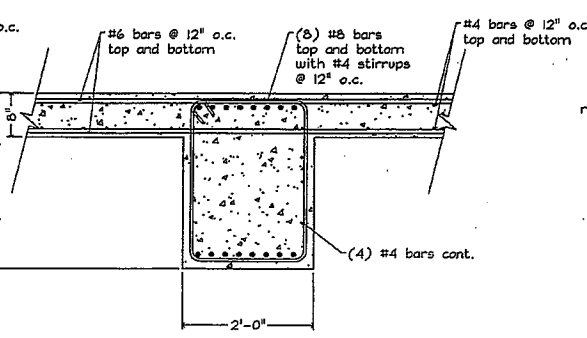
Section 08



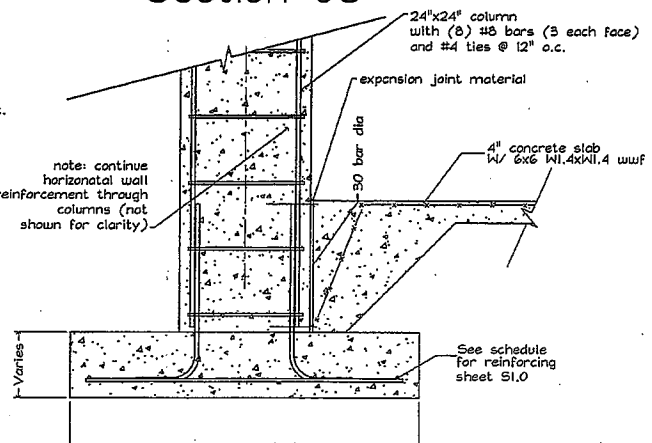
Section 07



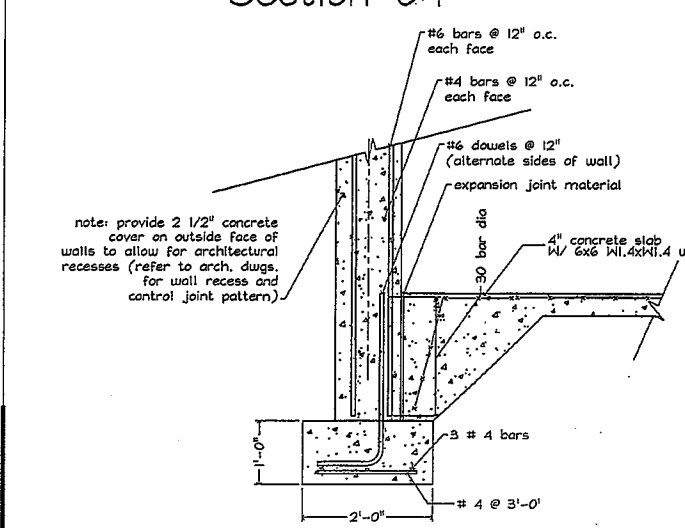
Section 04



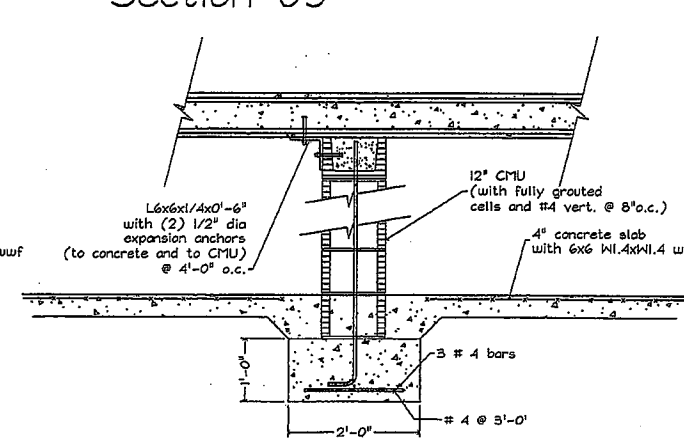
Section 05



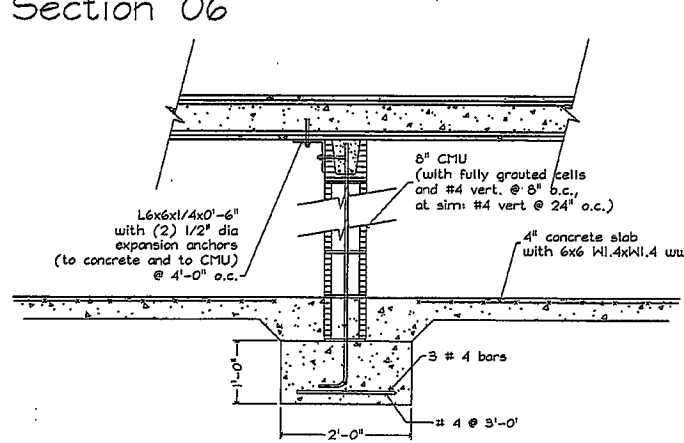
Section 06



Section 01



Section 02



Section 03

- GENERAL NOTES
- Any omissions or discrepancies between plans, details, and specifications shall be brought to the attention of the Architect or Engineer before bidding.
 - Structural drawings or parts of the structural drawings may not be used as shop drawings without prior written approval.
 - All or parts of these drawings were produced with computer aided drafting. Drawings are available from the Engineer in DWG format on request.
 - Contractor proposed changes to details must be clearly noted on the first sheet of all shop drawings.
 - Construction shown is stable after the building is complete including interior and exterior finishes. The Contractor is responsible for temporary bracing of the structure during construction.
 - This design is based on guidelines from FEMA 361. It is not possible to test all conditions that may occur during severe windstorms and this design is not warranted for all storm conditions. The designer shall not be obligated or made liable for actual, incidental, consequential, or other damages of or to users of shelters or any other person or entity arising out of or in connection with the use, condition, and/or performance of shelters built from this design or from the maintenance thereof.

- DESIGN LOADS
- Reference code for loading SEI/ASCE7 -02 and FEMA 361.
 - Building Classification II
 - Wind Loading
 - Basic Wind Speed 250 mph
 - Wind Exposure C
 - Velocity Pressure (qz) 144 psf
 - Earthquake Loads
 - Effective Peak Velocity-related Sds 0.25
 - Site Class D
 - Roof Load 20 psf
 - Slabs on grade 100 psf

- FOUNDATIONS
- Foundation design for this project was based on assumed soil conditions information for design of foundations has not been provided by the Owner.
 - Assumed bearing value of soil:
 - Continuous Footings----- 1500 psf
 - Isolated spread footings----- 1500 psf
 - All footings are to bear on undisturbed soil.
 - Step all footings where necessary to provide a minimum of 1'-0" below the finish grade or 0'-8" below finish floor.
 - All footing elevations are given to the top of the footings.
 - Footing steps shown on the plans are furnished as a guide for estimating quantities. Final elevations are to be set in the field. Bearing elevations must be approved by a Soils Engineer before any concrete is placed.
 - Coordinate foundation elevations with plumbing requirements. Step footings as required to clear plumbing lines.

- REINFORCING STEEL AND CONCRETE
- All concrete work is to be in accordance with the "Building Code Requirements for Reinforced Concrete" (ACI 318-02).
 - All detailing is to be in accordance with "ACI Detailing Manual" SP-66
 - Concrete Properties

Concrete Use	Design Strength	Min W/C Ratio	Slump Limits	Entrained Air Range	Weight
All Concrete	4000 psi	n/a	3" to 5"	3% to 5%	150 pcf

- All concrete must obtain 7 day strength of 70% of design strength.
- Concrete mixes may use up to 25% of cementitious weight as fly ash.
- Concrete mixes may use water reducers, accelerators or retarders with prior approval.
- All steel reinforcement shall be of deformed bars of billet steel conforming to ASTM A615, Grade 60 in all concrete.
- Welded wire fabric shall be ASTM 185 and shall top 2 cross wires or 6" whichever is greater on all sides. All tops shall be wired together.
- All slabs on grade are 4", unless noted. Slabs are to be placed on 10 Mil, PVC vapor barrier over 4" of porous fill. Reinforce slabs with 6x6 W1.4 x W1.4 WUF placed 1" from top of slab. Unless otherwise noted slabs shall have joints placed a 15'-0" on centers. Joints may be control joints or construction joints. See Architectural Plans for floor slopes and recesses for hard tile.
- Concrete cover for reinforcement:
 - Beam 1 1/2" outside of stirrups
 - Columns 1 1/2" outside of ties
 - Footings 3"
 - Slabs and Joist 3/4"
 - Walls
- Surfaces exposed to weather or soil 1 1/2" (uno)
- Other surfaces 3/4"

- Provide corner bars at all wall and footing intersections.
- Contractor shall include an allowance of 2 tons of reinforcing steel in place in addition to the steel shown on the contract documents in the base bid. This steel is to be placed at no additional cost to the Owner in sizes and at locations as directed by the Architect or Engineer. Unused steel will be credited to the Owner.
- No openings shall be allowed to penetrate any concrete work, unless it is shown on the structural framing plans without prior written approval. Contractor shall submit for review locations of proposed openings not shown 30 days prior to pouring any concrete.
- When joints in beams, slabs, and joists shall be located in the center one-third of the span. All construction joints must be keyed. Contractor shall submit location of proposed construction joints 3 days prior to pouring concrete.
- Provide a continuous water bar at all wall construction joints below ground level.
- Use 3/4" chamfer for all exposed corners unless noted.

TESTING

- The owner shall obtain testing and special inspection services under a separate contract. Refer to the project schedule of special inspections for the necessary tests and inspections.

Community Shelter Building for the
Bibb County Commission
 Bibb County, Alabama

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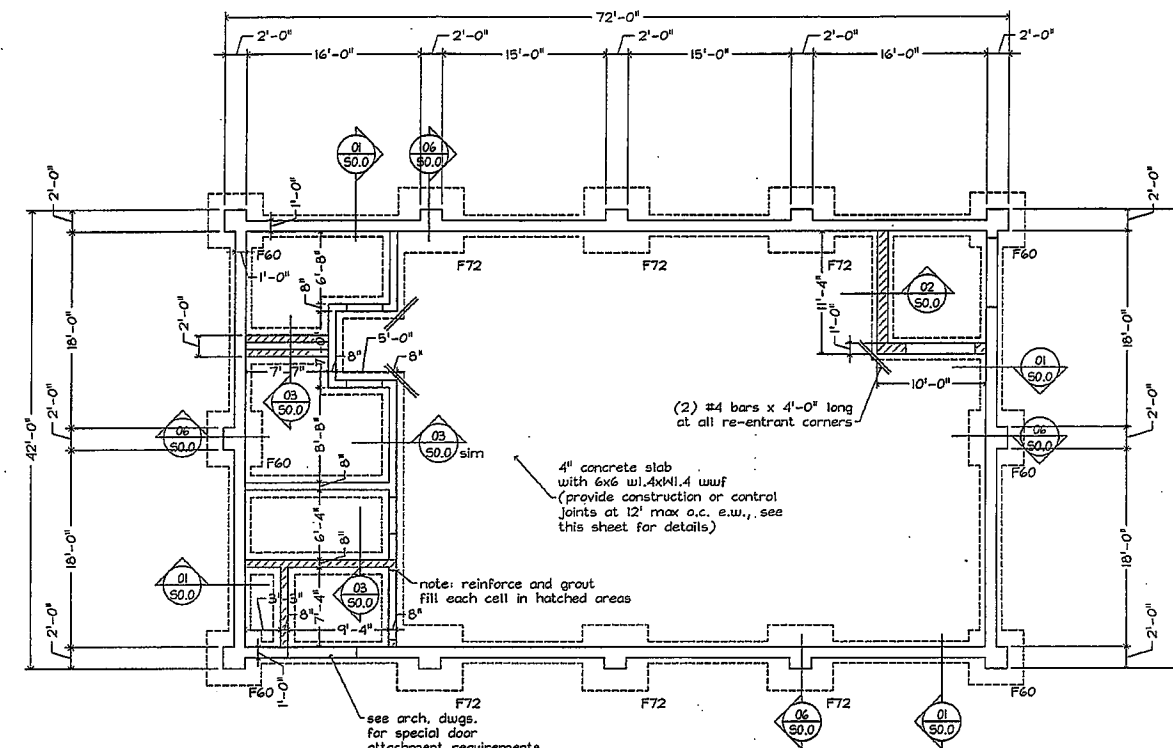
Do Not Scale From Drawings.

Contractor must verify all dimensions prior to construction.

JOB No.	0514
DATE:	REV DATE:
4-06-07	
DRAWN BY:	

SCALE:
 SHEET NUMBER S0.0

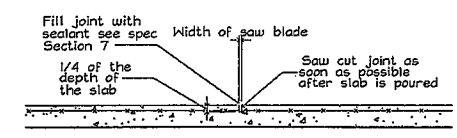
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Foundation Plan

Scale 1/8" = 1'-0"

- Sheet Notes:
1. See Sheet No 50.0 for typical details and general notes.
 2. Reference all elevations to Finish Floor elevation (+) 0'-0"
 3. Top of all exterior footings elevation (-) 2'-0" unless noted.
 4. * indicates footing steps.



Note: Saw cut joint must be made the same day the slab is poured

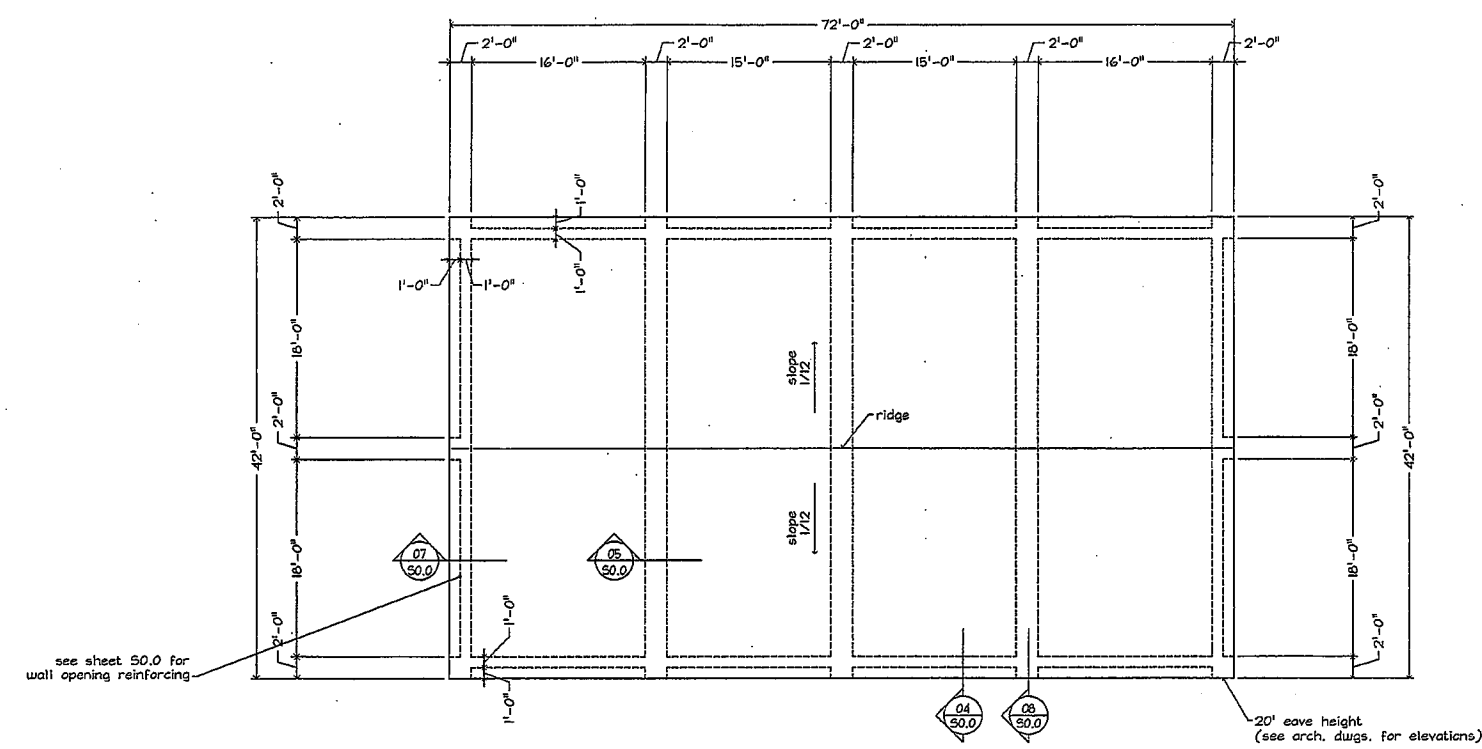
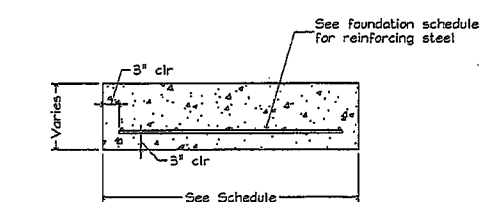
Typical Control Joint



Typical Slab Construction Joint

Foundation Schedule

Mark	Width	Length	Depth	Reinforcing
F60	5'-0"	5'-0"	1'-0"	6 # 6 bars e.w.
F72	6'-0"	6'-0"	1'-3"	7 # 6 bars e.w.



Roof Plan

Scale 1/8" = 1'-0"

Community Shelter Building for the
Bibb County Commission
 Bibb County, Alabama

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