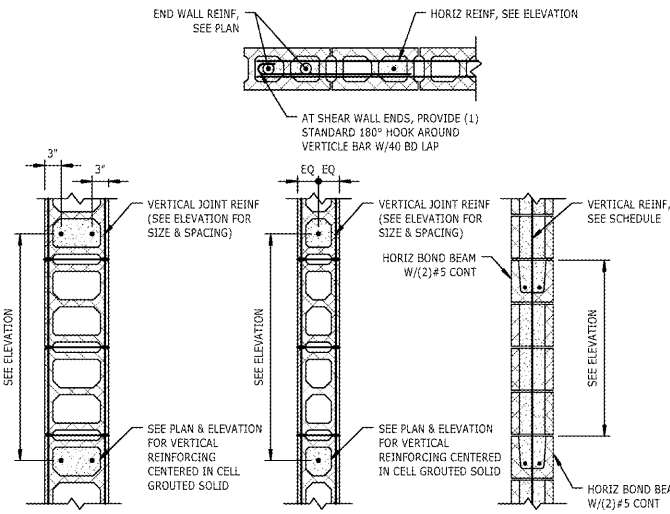


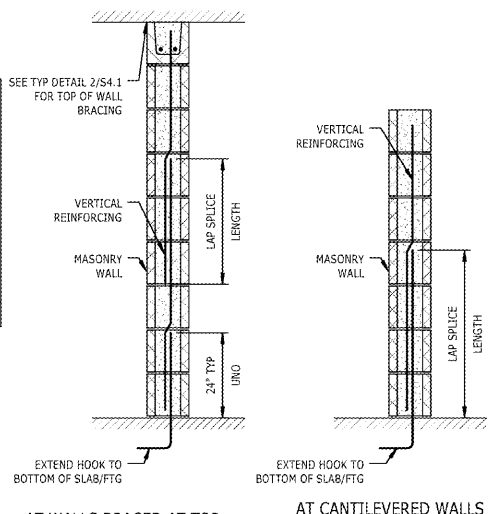
**9 DETAIL**  
S4.0 MASONRY SHEAR WALL  
NTS  
NOTES:  
1. ALTERNATE COURSES (LAY BLOCK IN RUNNING BOND).  
2. SEE SHEAR WALL ELEVATION FOR HORIZONTAL REINFORCING.  
3. AT 12" CMU BARS MAY BE DOUBLE. TWO BARS PER CELL IS A BAR "SET".



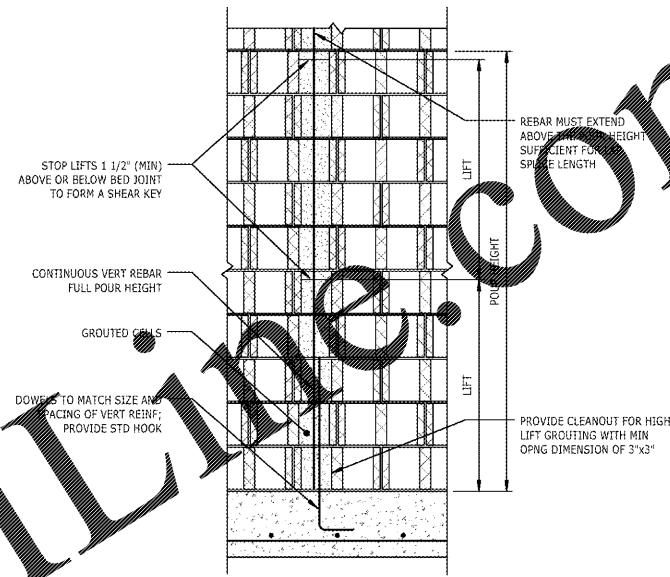
**6 DETAIL**  
S4.0 TYPICAL CMU WALL REINFORCING  
NTS

**MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE**

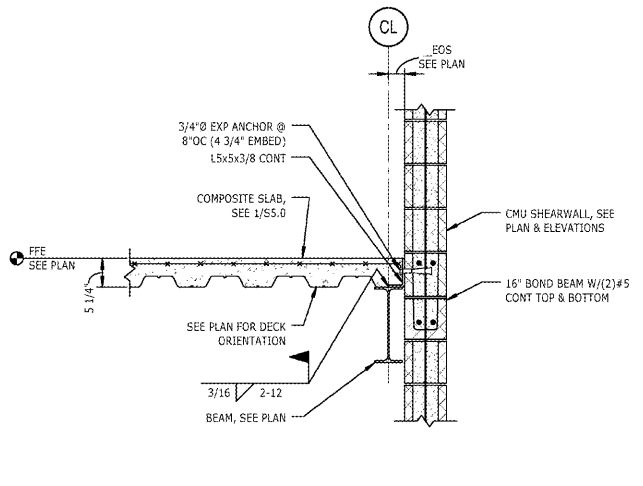
BAR SIZE	LAP SPLICE
#3	27"
#4	36"
#5	45"
#6	54"
#7	63"
#8	72"



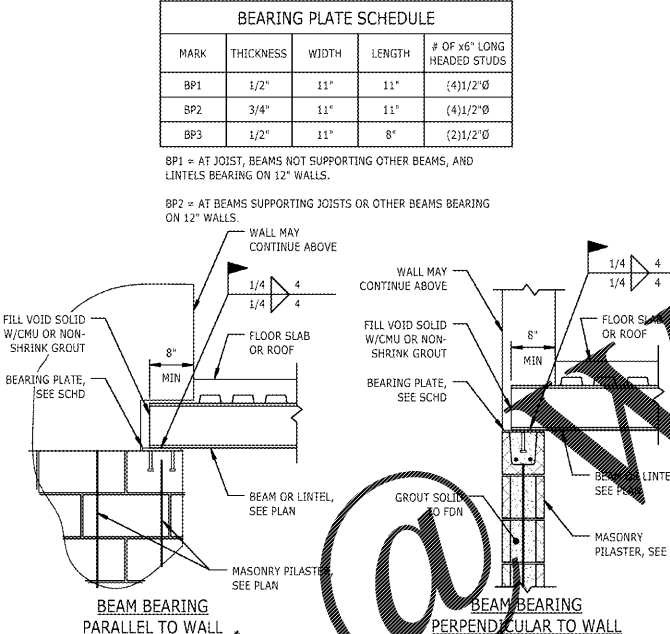
**3 DETAIL**  
S4.0 MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE  
NTS



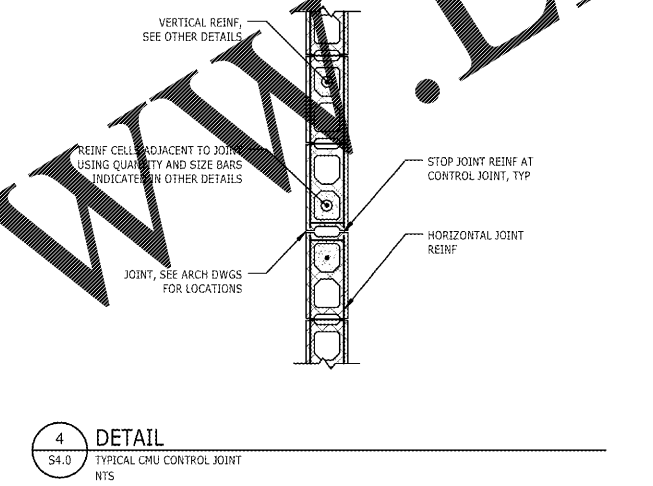
**1 DETAIL**  
S4.0 MASONRY GROUT REQUIREMENTS  
NTS  
GENERAL GROUTING REQUIREMENTS:  
1. ALL REINFORCED CELLS SHALL BE GROUTED SOLID.  
2. REINFORCING BARS SHALL BE IN PROPER POSITION PRIOR TO PLACEMENT OF GROUT, NOT PUSHED DOWN INTO PREVIOUSLY PLACED GROUT. SAME REQUIREMENT APPLIES FOR EMBEDDED BOLTS AND FASTENERS.  
3. MORTAR BEDDING UNDER THE FIRST COURSE OF BLOCK CELLS TO BE GROUTED SHALL PERMIT GROUT TO COME INTO DIRECT CONTACT WITH FOUNDATION.  
4. PLACE MORTAR ON CROSS WEBS ADJACENT TO ALL GROUTED CELLS.  
5. MORTAR THAT PROJECTS MORE THAN 1/2" INTO CELLS THAT ARE TO BE GROUTED SHALL BE REMOVED.  
6. GROUTED CELLS SHALL BE MECHANICALLY VIBRATED DURING PLACEMENT OF GROUT. TEN MINUTES AFTER PLACING GROUT, EACH GROUTED CELL SHALL BE RECONSOLIDATED WITH A VIBRATOR.  
7. METAL LATH SHALL BE PLACED UNDER ALL BOND BEAMS IN ORDER TO CONTAIN GROUT. FELT OR OTHER BOND BREAKING MATERIAL IS NOT PERMITTED. AS AN ALTERNATIVE TO THIS, "U"-SHAPED LINTEL BLOCKS MAY BE USED FOR BOND BEAMS.  
8. EITHER LOW LIFT GROUTING OR HIGH LIFT GROUTING PROCEDURES MAY BE UTILIZED, AT THE CONTRACTOR'S OPTION.  
LOW LIFT GROUTING PROCEDURE:  
1. LAY WALL TO MAXIMUM OF 5'-0".  
2. CLEAN MORTAR AND OTHER DEBRIS FROM CELLS TO BE GROUTED.  
3. PLACE REINFORCING BARS IN PROPER POSITION.  
4. PLACE GROUT UP TO LIFT HEIGHT AND VIBRATE.  
HIGH LIFT GROUTING PROCEDURE:  
1. CLEANOUT OPENINGS SHALL BE PROVIDED IN THE FACE SHELLS OF THE BOTTOM COURSE OF ALL CELLS TO BE GROUTED. OPENINGS SHALL BE LARGE ENOUGH TO ALLOW REMOVAL OF DEBRIS.  
2. LAY WALL TO MAXIMUM POUR HEIGHT AND CLEAN DEBRIS FROM OPENINGS. PLACE REINFORCING BARS IN PROPER POSITION.  
3. CLEAN MORTAR AND OTHER DEBRIS FROM CELLS TO BE GROUTED.  
4. MASONRY SHALL CURE A MINIMUM OF 4 HOURS PRIOR TO GROUTING.  
5. PLACE GROUT TO THE FOLLOWING HEIGHTS: MAXIMUM LIFT HEIGHT IS 5'-0"; MAXIMUM POUR HEIGHT IS 12'-0" UNLESS EXPRESSLY COORDINATED WITH THE STRUCTURAL ENGINEER.  
6. AFTER THE LIFT IS POURED, VIBRATE TO ELIMINATE ALL AIR VOIDS. WAIT BETWEEN 3 AND 10 MINUTES, THEN RECONSOLIDATE BY VIBRATING AGAIN. CONTINUE THIS PROCEDURE FOR FULL POUR HEIGHT. RECONSOLIDATE THE PROX LIFT BY EXTENDING THE VIBRATOR THROUGH THE CURRENT LIFT INTO THE PREVIOUS LIFT.  
7. GROUT SLUMP MUST BE MAINTAINED BETWEEN 10 AND 11 INCHES FOR HIGH LIFT GROUTING.



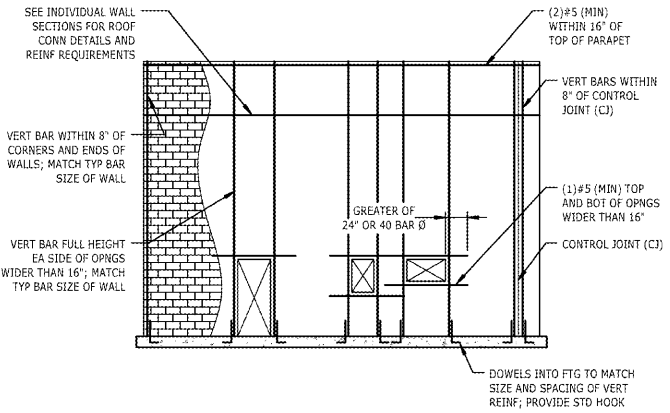
**10 DETAIL**  
S4.0 TYPICAL COMPOSITE SLAB/CMU WALL DETAIL  
NTS



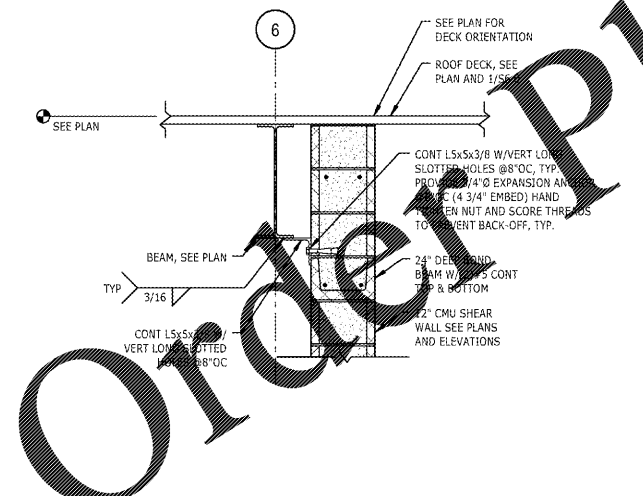
**7 DETAIL**  
S4.0 BEAM BEARING DETAILS  
NTS



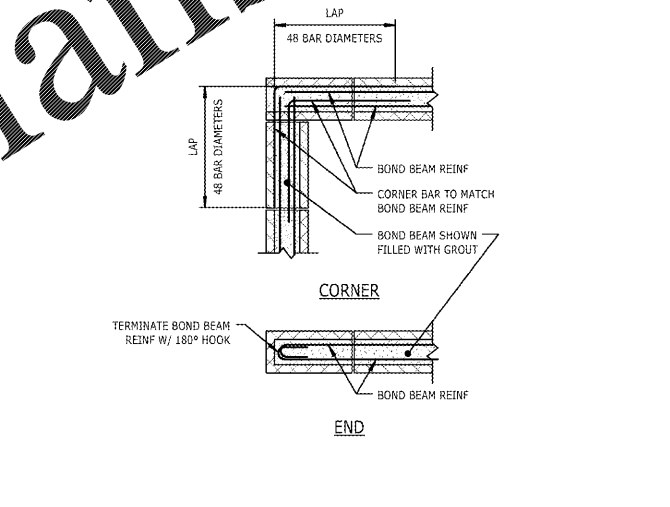
**4 DETAIL**  
S4.0 TYPICAL CMU CONTROL JOINT  
NTS  
NOTES:  
1. PROVIDE DOWELS TO FOUNDATION MATCHING SIZE OF VERTICAL REINFORCING, TYPICAL. SEE GENERAL NOTES OR MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE FOR LAP REQUIREMENTS.  
2. ALL CONTROL JOINT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS AND HAVE A RECOMMENDED MAXIMUM SPACING OF 25 FEET.



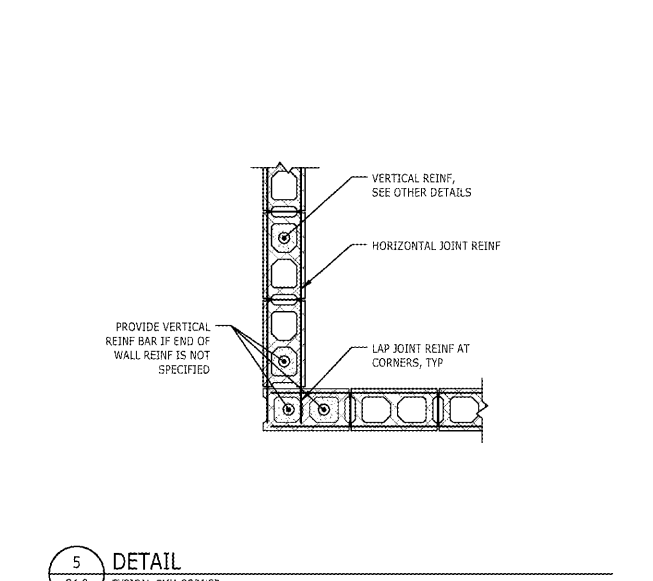
**2 DETAIL**  
S4.0 MINIMUM CMU WALL REINFORCING REQUIREMENTS, SEISMIC DESIGN CATEGORIES A, B, AND C  
NTS  
NOTES:  
1. REINFORCING SHOWN IS A MINIMUM REQUIREMENT, INDIVIDUAL WALL SECTION REINFORCING REQUIREMENTS (SUCH AS NUMBER OR SIZE OF BARS) SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS SHOWN HEREIN. SEE INDIVIDUAL WALL SECTIONS AND SCHEDULES FOR VERTICAL REINFORCING REQUIREMENTS.  
2. ALL DISCONTINUOUS REINFORCEMENT SHALL BE LAPPED PER MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE.  
3. VERTICAL STEEL MUST BE SECURED IN PLACE BEFORE THE BLOCKS ARE LAID. ALL VERTICAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH MASONRY LINTELS AND BOND BEAMS, UNO.  
4. AT OPENINGS WHERE STEEL BEAM LINTELS ARE PROVIDED, REINFORCE THE JAMB CELL TO THE BEARING ELEVATION OF THE LINTEL, AND REINFORCE THE NEXT ADJACENT CELL PAST THE END OF THE BEAM FULL HEIGHT AS SHOWN IN THIS DETAIL.  
5. DETAIL DOES NOT APPLY TO INTERIOR NON-LOAD BEARING PARTITION WALLS.  
6. PROVIDE MINIMUM (2) LEGS OF W1.7 HORIZONTAL JOINT REINFORCING @ 16" OC VERTICALLY.



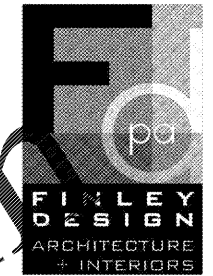
**11 SECTION**  
S4.0 3/4" = 1'-0"



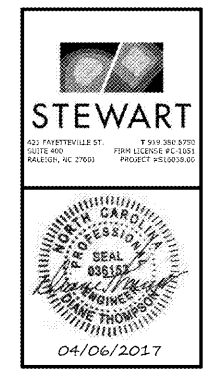
**8 DETAIL**  
S4.0 TYPICAL BOND BEAM CORNER/END  
NTS



**5 DETAIL**  
S4.0 TYPICAL CMU CORNER  
NTS  
NOTES:  
1. PROVIDE DOWELS TO FOUNDATION MATCHING SIZE OF VERTICAL REINFORCING, TYPICAL. SEE GENERAL NOTES OR MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE FOR LAP REQUIREMENTS.



Finley Design PA  
7806 nc hwy 751  
Suite 110  
Durham, NC 27713  
919-493-8200  
FINLEYDESIGNARCH.COM



04/06/2017

Westpoint 2 Durham, NC

**REVISIONS**

NO.	DESCRIPTION

PROJECT: S16028.00  
DATE: 04/06/2017  
DRAWN BY: DR  
CHECKED BY: DJT

TYPICAL CMU SECTIONS AND DETAILS  
S4.0

/VOLUMES/F DRIVE/FINLEY DESIGN/PROJECTS/1342 WESTPOINT 2/DRAWINGS/TITLEBLOCKS/1342-X-TB.DWG

Order Plans