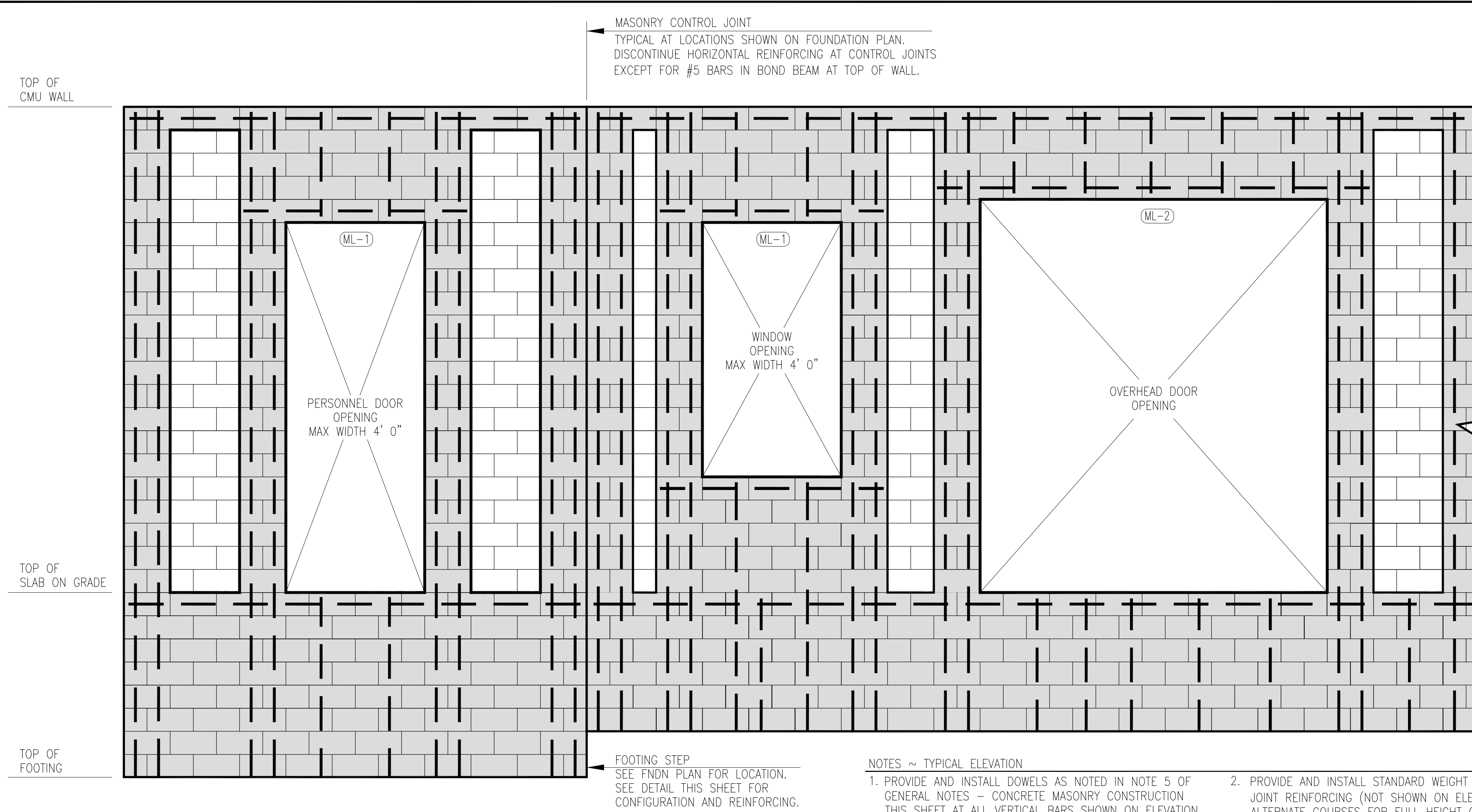


one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three eighths inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
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seventy eight inches = one foot
seventy nine inches = one foot
eighty inches = one foot
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eighty two inches = one foot
eighty three inches = one foot
eighty four inches = one foot
eighty five inches = one foot
eighty six inches = one foot
eighty seven inches = one foot
eighty eight inches = one foot
eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot

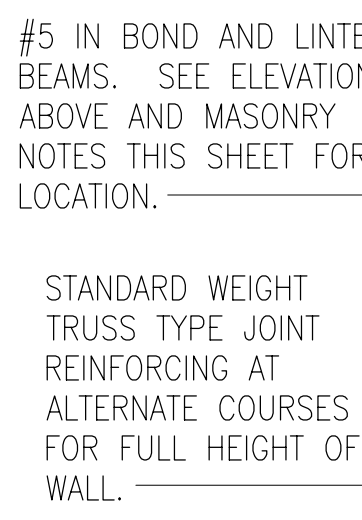
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DWG SCALE: 1/4" = 1' 0"

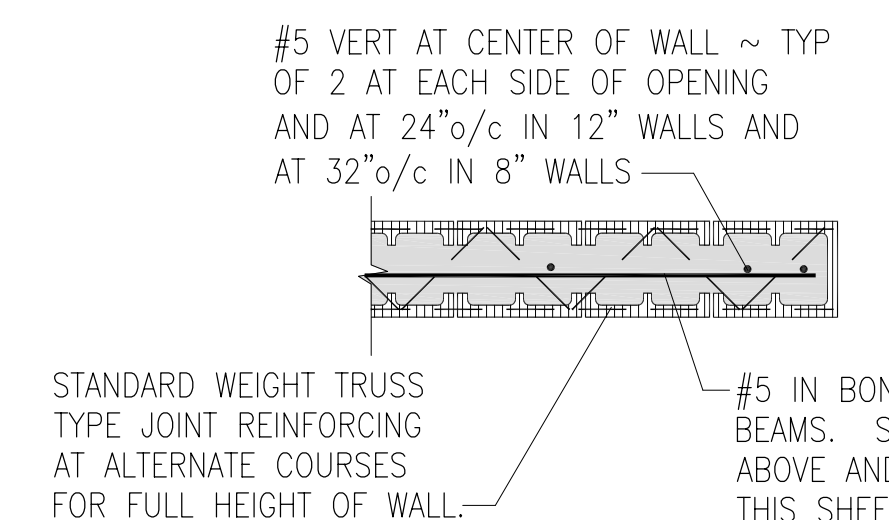
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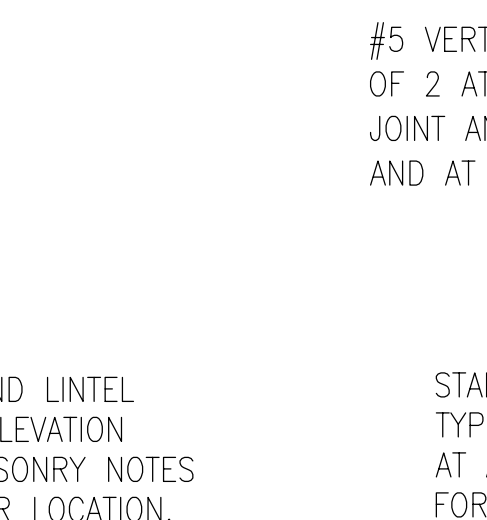
TYPICAL ELEVATION ~ REINFORCED CMU WALL



1 CMU CORNER DETAIL
S-112



2 CMU JAMB DETAIL
S-112

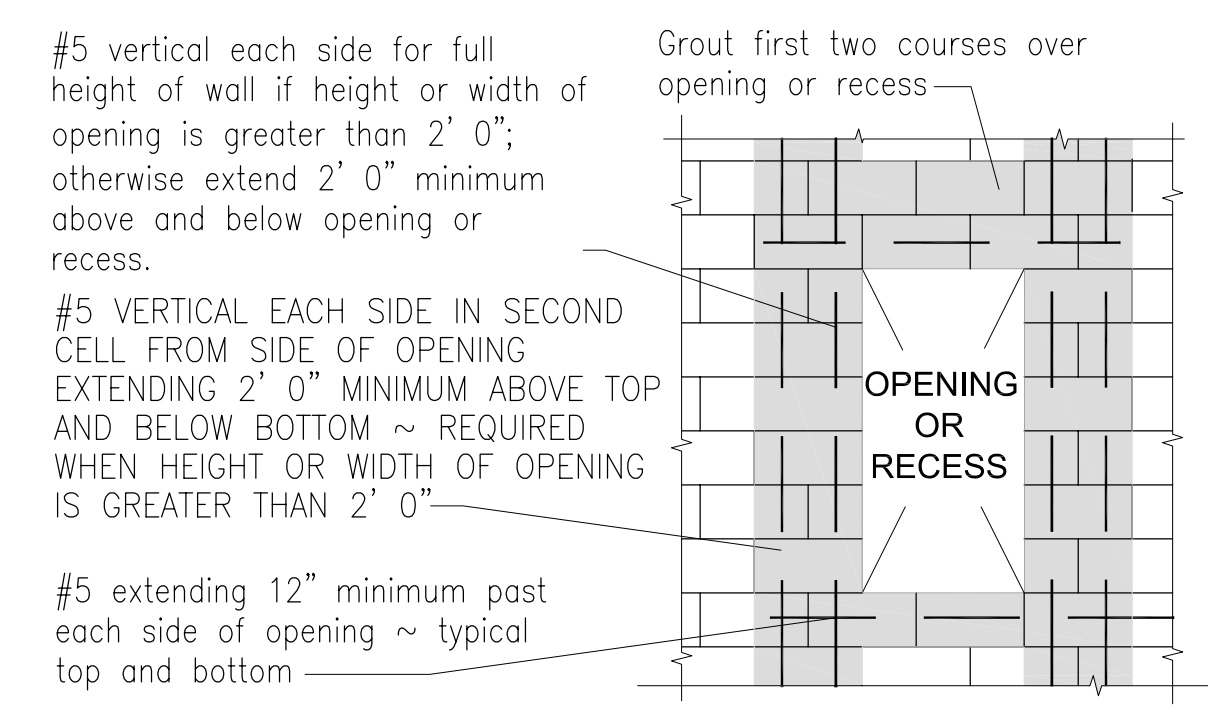


3 CMU CONTROL JOINT DETAIL
S-112

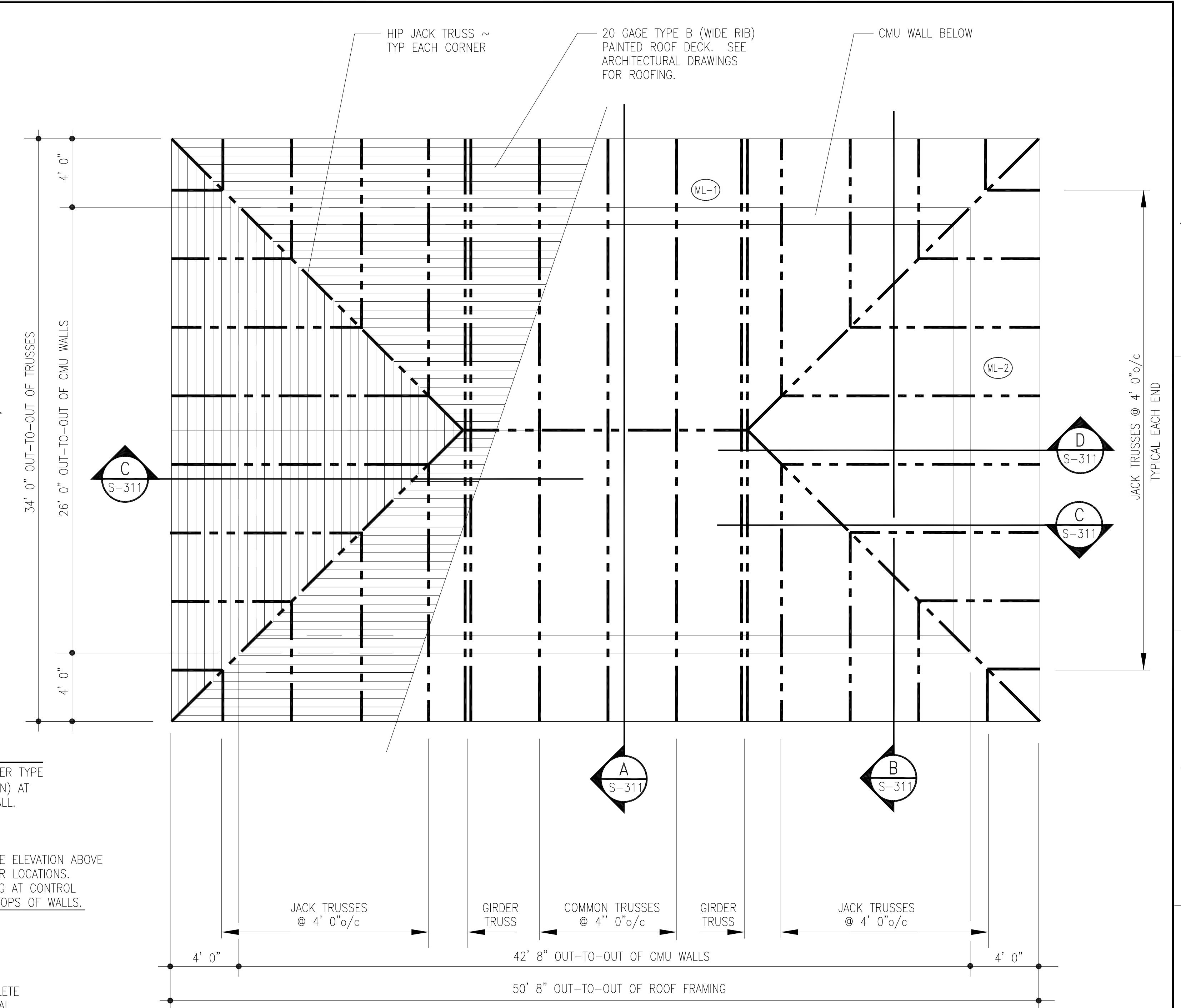
GENERAL NOTES - CONCRETE MASONRY CONSTRUCTION

- GENERAL. Except as otherwise shown or specified, construct masonry in accordance with the requirements for low-lift grouted construction for reinforced hollow unit masonry. See General Note 9 below. See Sheet S-011 for special inspection requirements.
- MASONRY UNITS. Except as otherwise shown provide concrete masonry units with manufacturer's standard finishes and colors.
- DIMENSIONS. Except as specifically noted otherwise, masonry dimensions are nominal. Example: a unit whose dimensions are given as 16" (long) x 8" (high) x 12" (thick) has actual dimensions of 15-5/8" x 7-5/8" x 11-5/8", respectively. The difference is typically made up by the mortar joint whose thickness is typically 3/8".
- BONDING. Except as otherwise shown, lay masonry with vertical joints between units in each course to be placed midway between the vertical joints in the course below (half running bond). Lay units using full head and bed joints.
- VERTICAL REINFORCING. Except as otherwise shown and noted, provide #5 bars placed at the center of walls and typically spaced at 24 inches on center for 12 inch walls and at 32 inches on center for 8 inch walls. See the typical details on this Sheet for additional reinforcing required at openings, recesses, corners, control joints and other discontinuities in masonry construction. Except where specifically shown otherwise, all reinforcing shall be continuous for the full height of each wall. Bars shall be as long as practical but not less than 6 feet with minimum splice length to be 24 inches. Provide dowels into footings at all vertical bars. Dowels shall be embedded not less than 8 inches into footings with standard ACI 90 degree hooks at bottoms of bars.
- HORIZONTAL REINFORCING
 - BOND BEAMS. Provide bond beams with #5 horizontal continuous at joint and beam bearing elevations, at tops of walls, and at other locations shown on the drawings. Lap bars not less than 24 inches and maintain continuity at corners and intersections by providing corner bars as shown in the Details on this Sheet.
 - JOINT REINFORCING. Provide masonry joint reinforcing of the type specified at 16 inches on center (every other course) for the full height of walls. At corners and intersections, provide prefabricated items to maintain continuity. Lap reinforcing not less than 12 inches in straight runs.

- HORIZONTAL REINFORCING (Continued)
 - LINTEL BEAMS. See the Roof Framing Plan and Framing Sections for locations and designations of lintel beams. See the schedule, notes and details on this Sheet for reinforcing, dimensions and other requirements.
- OPENINGS AND RECESSES. All openings and recesses larger than 8 inches square shall be built into masonry work as it progresses and shall not be cut in after work is completed. Locations and sizes of masonry work not shown on the Structural Drawings shall be confirmed with the Architect before construction. Except as specifically shown otherwise, there shall be not less than 16 inches of full thickness masonry construction between adjacent openings or recesses in masonry. Except as shown otherwise reinforcing around openings shall be as shown in the Typical Detail on this Sheet.
- ANCHOR RODS AND EXPANSION ANCHORS. Drilled-in expansion anchors shall not be used except where specifically shown on the Structural Drawings. Anchor rods and expansion anchors shall be firmly anchored in grout with both the cell containing the anchor and the cell below grouted solid. Where anchors are uniformly spaced, the first and last anchors shall be spaced at not more than one-half the typical spacing nor 16 inches from the end of a wall or beam.
- CONTROL JOINTS. Provide control joints in masonry walls at locations shown on the Foundation Plan. Stop horizontal reinforcing in masonry walls at control joints except at bond beams at joist bearings. Provide additional vertical reinforcing at each side of the control joints as shown in the Typical Detail on this Sheet.
- GROUT. Place grout using the low lift grouting method in which grout lifts and free fall of grout are limited to 4 feet. Before grouting clean cells and cavities to be grouted of all trash, mortar droppings and fins, and standing water. Except at the tops of walls, provide shear keys in grouted cells at the top course of all cells and/or cavities containing vertical reinforcing by stopping the grout pour at midheight of the top course being grouted. Grout all cells solid where one or both sides of wall will be below grade when construction is complete. Grout masonry bond beams and lintel beams in one lift with no construction joints permitted. Do not use mortar as grout.



TYPICAL REINFORCING DETAIL
OPENING OR RECESS IN CMU
NO SCALE



STORAGE BUILDING ROOF FRAMING PLAN

GENERAL NOTES - STORAGE BUILDING ROOF FRAMING PLAN

- SEE SHEET S-211 FOR TRUSS ELEVATIONS.
- USE TYPE ML-1 LINTELS OVER OPENINGS WHERE LINTEL TYPE IS NOT INDICATED ON PLAN. SEE ARCHITECTURAL DRAWINGS FOR SIZES AND LOCATIONS OF WINDOWS AND OTHER OPENINGS NOT SHOWN ON ROOF FRAMING PLAN.
- ATTACHMENT OF ROOF DECK TO ROOF FRAMING:
 - AT SUPPORTS PERPENDICULAR OR AT AN ANGLE TO SPAN OF ROOF DECK:
 - AT ENDS OF DECK RUNS OR AT JOINTS BETWEEN PANELS IN SAME RUN: #12 (MINIMUM) SELF-DRILLING SCREWS IN 36-7 PATTERN;
 - AT INTERMEDIATE SUPPORTS: #12 (MINIMUM) SELF-DRILLING SCREWS IN 36-4 PATTERN.
 - AT SUPPORTS PARALLEL TO SPAN OF ROOF DECK: #10 (MINIMUM) SELF-DRILLING CREWS @ 12"/c MAXIMUM WITH ONE SCREW WITHIN 6" OF EACH END OF EACH DECK PANEL.
 - ALONG SIDE LAPS OF DECK PANELS: #10 (MINIMUM) SELF-DRILLING SCREWS @ 12"/c WITH ONE SCREW WITHIN 6" OF EACH END OF EACH DECK PANEL.

MASONRY LINTEL SCHEDULE				
MARK	WIDTH	DEPTH	HORIZONTAL REINFORCING	BEARING EACH END
ML-1	12"	16"	1-#5 BOTTL	2 CELLS
ML-2	12"	24"	1-#5 TOP 2-#5 BOTTL	2 CELLS

- NOTES:
- END SUPPORT. Minimum length of bearing at ends of masonry lintel beams shall be as shown in the schedule on this sheet. Each cell in bearing length shall be reinforced with with 1 ~ #5 vertical for the full height of the wall and grouted solid. Where lintel beams bear on intersecting walls, length of bearing shall be as scheduled and shall be centered as nearly as possible under the beam.
 - HORIZONTAL REINFORCING. Bottom bars shall be extended to within 2" of the end of the bearing length at the end of each beam. Top bars shall be continuous over interior and shall be extended to within 2" of the end of the bearing and shall have standard 90 degree ACI hooks at their ends. Bottom bars shall be spliced only over supports and top bars only within the middle third of the clear span of the beam.
 - VERTICAL REINFORCING. Except as specifically noted otherwise, vertical reinforcing in lintel beams shall be the same as for the typical run of the wall in which the beam is located.

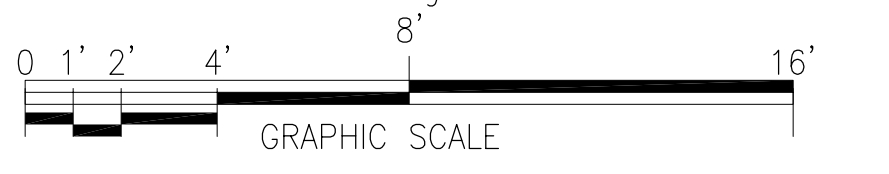
MASONRY LINTEL BEAM DETAIL, SCHEDULE AND NOTES
NO SCALE

DISCOVERY CLAUSE

IN THE EVENT THAT BONES OR PREHISTORIC OR HISTORIC ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING CONSTRUCTION OR EARTH DISTURBING ACTIVITIES, CEASE WORK IMMEDIATELY AND PROTECT THE REMAINS FROM FURTHER DISTURBANCE. NOTIFY THE OWNER (THE DIRECTOR OF FORT BLISS NATIONAL CEMETERY) AT (915) 564-0201. THE OWNER WILL NOTIFY THE NEW MEXICO HISTORIC PRESERVATION DIVISION (SHPO). THE OWNER AND SHPO MAY DISCUSS THE APPROPRIATE WAY TO PROCEED. DIRECTION TO THE CONTRACTOR WILL BE PROVIDED BY THE OWNER.

GENERAL NOTE ~ DRAWING SCALE

This sheet was drawn at a scale of 1/4" = 1' 0" but it may have been plotted at a different scale. The scale of the plotted sheet can be determined using the GRAPHIC SCALE below.



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Revisions:		Date		Drawing Title STORAGE BUILDING ROOF FRAMING PLAN FRAMING DETAILS		Project Title CEMETERY IMPROVEMENTS AND NEW MAINTENANCE BUILDING	
				Approved: Director Office of Design and Construction		Location FORT BAYARD, NEW MEXICO	
						Date NOVEMBER 18, 2011	
						Checked CEB	
						Drawn BCE	
						Project Number 885CM3007	
						Building Number 2	
						Drawing Number S-112	
						Dwg 102 of 120	

100% CONSTRUCTION DRAWINGS

NATIONAL CEMETERY
ADMINISTRATION
OFFICE OF DESIGN
AND CONSTRUCTION

Department of
Veterans Affairs