



CONCRETE LABORATORY NOTES:

- DESIGN SPECIFICATION: ACI 318-05/ASCE 5-05 1719-4671-99.
- MASONRY UNITS: ASTM C32 GRADE N, TYPE 1, STANDARD WEIGHT
- MORTAR: ASTM C710, TYPE N
- FRAM. STRENGTH: F_r = 1350 PSI MIN.
- GROUT: ASTM C416, MIN. GROUT STRENGTH: 2000 PSI.
- REINFORCEMENT: DEFORMED BARS, GRADE 60, ASTM A615
SPICE LENGTHS: 6" MIN., 48" MAX.

JOINT REINFORCEMENT:
 SPICE LENGTHS: 6" MIN., 48" MAX.

1. WHERE CONTROL JOINTS PASS THROUGH BOND BEAM MAKE BOND BEAM REINFORCING CONTINUOUS. MAKE JOINT IN BOND BEAM ON DRAWINGS.

2. LOAD BEARING CMU WALL REINFORCING REQUIREMENTS UNLESS SHOWN OTHERWISE ON DRAWINGS:

- VERTICAL WALL REINFORCING: #5 @ 48" O.C.
- (1) #5 VERTICAL, FULL HEIGHT, AT CORNERS AND ENDS OF WALLS AND AT EACH SIDE OF EACH OPENING.
- REINFORCING AT BOTTOM IS NOT REQUIRED IF WALL IS ON A REINFORCED FOUNDATION WALL OR FOOTING. REINFORCING IS REQUIRED ADDITIONAL REINFORCING AT WALL OPENINGS: (1) #5 HORIZONTAL AT TOP AND BOTTOM OF OPENING, EXTENDING 24" BEYOND OPENING, IF STEEL COURSE ABOVE UNLESS OTHERWISE SHOWN; (2) #5 HORIZONTAL AT TOP AND BOTTOM OF OPENING, EXTENDING 24" BEYOND OPENING, IF STEEL COURSE BELOW UNLESS OTHERWISE SHOWN.
- GROUT CORES SOLID AT REINFORCING. EXTEND VERTICAL REINFORCING THROUGH BOND BEAM AND MAKE BOND BEAM REINFORCING CONTINUOUS THROUGH BOND BEAM. HORIZONTAL JOINT REINFORCING STANDARDS (1) #5 (WIRE) TRUSS TYPE #16" O.C.

3. NON-BEARING CMU WALL REINFORCING REQUIREMENTS UNLESS SHOWN OTHERWISE ON DRAWINGS:

- VERTICAL REINFORCING: ONE (1) #4 BAR @ 48" O.C. AND ONE (1) #5 HORIZONTAL AT TOP OF WALLS IN BOND BEAM.
- GROUT CORES SOLID AT REINFORCING. EXTEND VERTICAL REINFORCING THROUGH BOND BEAM AND MAKE BOND BEAM REINFORCING CONTINUOUS THROUGH BOND BEAM. HORIZONTAL JOINT REINFORCING STANDARDS (1) #5 (WIRE) TRUSS TYPE #16" O.C.

10. DOUELS AT BASE OF ALL CMU WALLS:

- LOAD BEARING WALLS: PROVIDE #5 DOUELS AT EACH VERTICAL REINFORCING COURSE. DOUELS SHALL BE 4" MINIMUM INTO VERTICALLY INTO WALLS MINIMUM 18" AND GROUT CORES SOLID.
- NON-LOAD BEARING WALLS: PROVIDE #4 DOUELS AT EACH VERTICAL REINFORCING COURSE. DOUELS SHALL BE 4" MINIMUM INTO VERTICALLY INTO WALLS MINIMUM 18" AND GROUT CORES SOLID.
- EMBED ALL DOUELS 8" MINIMUM INTO CONCRETE WALLS. 4" MINIMUM INTO CONCRETE SLABS. GROUT IN PLACE USING GROUT SYSTEM EQUIVALENT TO MIL-T-117162.

11. ANCHORAGE AT TOP OF NON-LOAD BEARING WALLS: SEE DRAWING 814 FOR FURTHER INFORMATION. USE ONE OF THE METHODS INDICATED ON DRAWING 814. COORDINATE METHOD USED WITH ARCHITECTURAL DRAWINGS.

	East End Engineers & Architects Portland, Maine	JOB NO.: 0309 DATE: July 15, 2004 DRAWN BY: KJ/NTD CHECKED BY: SJP DRAWING TITLE: Concrete Sections & Details		Deluca-Hoffman Associates Concrete Sections & Details		CONSULTANTS: Civil Engineer: Deluca-Hoffman Associates Landscape Architect: Deluca-Hoffman Associates Structural Engineer: Deluca-Hoffman Associates Mechanical Engineer: Deluca-Hoffman Associates Electrical Engineer: Deluca-Hoffman Associates Architect: Deluca-Hoffman Associates Interior Designer: Deluca-Hoffman Associates Environmental Engineer: Deluca-Hoffman Associates Surveyor: Deluca-Hoffman Associates Forestry Consultant: Deluca-Hoffman Associates
	10 Dunbar Street Portland, ME 04103 Phone: 603.733.1111 Fax: 603.733.1112 Website: www.eastend.com	10 Dunbar Street Portland, ME 04103 Phone: 603.733.1111 Fax: 603.733.1112 Website: www.eastend.com				

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