NOTE: UNPROTECTED ALUMINUM DOOR AND WINDOW FRAMES CAN INTERACT WITH CEMENT-BASED MATERIALS AND INCUR DAMAGE. SEE PCA "MASONRY TODAY" VOLUME II, NO. 1 FOR RECOMMENDATIONS. www.cement.org/masonry/cc_al_frames.asp

ISOMETRIC VIEW

LADDER TYPE HORIZONTAL
JOINT REINFORCED W/ ADJUSTABLE VENEER TIES
8" CMU BACK-UP
1 1/4" x 1/8" CONT.
TERMINATION BAR W/ SEALANT
PRECAST CONCRETE LINTEL
SEALANT (BOTH SIDES)
RECEPTOR FRAMING
HIGH EFFICIENCY ALUM. WINDOW FRAME

SHORT SPAN LINTELS – WINDOW OPENINGS – USING RECEPTORS
(3 OPTIONS FOR THE CMU BACK-UP)

PRECAST CONCRETE LINTEL
3C
A-1

STEEL ANGLE LINTEL
3B
A-1

MASONRY LINTEL (PREFERRED)
3A
A-1

NOTE: MASONRY LINTEL MAY BE PRECAST OR FIELD ASSEMBLED

2" RIGID INSULATION
4" BRICK (CLAY) VENEER
FLEXIBLE MEMBRANE FLASHING
2x6 TREATED WOOD NAILER
DRAINAGE MATERIAL
1 1/2" RIGID INSUL (FIT TO SUPPORT FLASHING)
WEEPS
TWO-PIECE FLASHING (SEE DETAIL 6D, SHEET A-7)

LADDER TYPE HORIZONTAL
JOINT REINFORCED W/ ADJUSTABLE VENEER TIES
8" CMU BACK-UP
1 1/4" x 1/8" CONT.
TERMINATION BAR W/ SEALANT
LINTEL UNIT (W/ REINF., PER STRUCTURAL DESIGN) GROUTED SOLID
SEALANT
RECEPTOR FRAMING
HIGH EFFICIENCY ALUM. WINDOW FRAME

2" RIGID INSULATION
4" BRICK (CLAY) VENEER
FLEXIBLE MEMBRANE FLASHING
2x6 TREATED WOOD NAILER
DRAINAGE MATERIAL
1 1/2" RIGID INSUL (FIT TO SUPPORT FLASHING)
WEEPS
TWO-PIECE FLASHING (SEE DETAIL 6D, SHEET A-7)

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NOTE: MASONRY LINTEL MAY BE PRECAST OR FIELD ASSEMBLED

LADDER TYPE HORIZONTAL JOINT REINF@8" O.C. W/ADJUSTABLE VENEER TIES
2" RIGID INSULATION
4" BRICK (CLAY) VENEER
8" CMU BACK-UP
1 1/2" x 1 1/2" CONT. TERMINATION BAR W/ SEALANT
LINTEL UNIT (W/ REINF, PER STRUCTURAL DESIGN) GROUTED SOLID
BREAK METAL (OR OTHER ARCH. TREATMENT)
STRAP ANCHOR
HIGH EFFICIENCY ALUM. WINDOW FRAME

MASONRY LINTEL (PREFERED)

LADDER TYPE HORIZONTAL JOINT REINF@8" O.C. W/ADJUSTABLE VENEER TIES
2" RIGID INSULATION
4" BRICK (CLAY) VENEER
8" CMU BACK-UP
1 1/2" x 1 1/2" CONT. TERMINATION BAR W/ SEALANT
FLEXIBLE MEMBRANE FLASHING
DRAINAGE MATERIAL
RIGID INSULATION
WEEPS
TWO-PIECE FLASHING (SEE DETAIL 6D, SHEET A-7)
GALVANIZED ANGLE "LOOSE" STEEL LINTEL
SEALANT (BOTH SIDES)

STRAIGHT ANGLE LINTEL

LADDER TYPE HORIZONTAL JOINT REINF@8" O.C. W/ADJUSTABLE VENEER TIES
2" RIGID INSULATION
4" BRICK (CLAY) VENEER
8" CMU BACK-UP
1 1/2" x 1 1/2" CONT. TERMINATION BAR W/ SEALANT
FLEXIBLE MEMBRANE FLASHING
DRAINAGE MATERIAL
RIGID INSULATION
WEEPS
TWO-PIECE FLASHING (SEE DETAIL 6D, SHEET A-7)
GALVANIZED ANGLE "LOOSE" STEEL LINTEL
SEALANT (BOTH SIDES)

PRE-CAST CONCRETE LINTEL

SHORT SPAN LINTELS - WINDOW OPENINGS - USING STRAP ANCHORS

(3 OPTIONS FOR THE CMU BACK-UP)

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NOTE: MASONRY LINTEL MAY BE PRECAST OR FIELD ASSEMBLED

LADDER TYPE HORIZONTAL
JOINT REINF. @ 16" O.C.
W/ADJUSTABLE VENEER TIES

1 1/4" x 1/8" CONT.
TERMINATION BAR
W/ SEALANT

8" CMU BACK-UP

LINTEL UNIT
(W/ REINF, PER
STRUCTURAL DESIGN)

GROUTED SOLID

DOOR FRAME

MASONRY LINTEL (PREFERRED)

A-1

4A

NOTE: MASONRY LINTEL

DOOR FRAME

4" BRICK (CLAY)
VENEER

2" RIGID INSULATION

FLEXIBLE MEMBRANE
FLASHING

DRAINAGE MATERIAL

WEEPS

TWO-PIECE
FLASHING (SEE
DETAIL 6D, SHEET A-7)

GALVANIZED DOUBLE
ANGLE ("LOOSE")
STEEL LINTEL

SEALANT (BOTH SIDES)

4" BRICK (CLAY)
VENEER

2" RIGID INSULATION

FLEXIBLE MEMBRANE
FLASHING

DRAINAGE MATERIAL

WEEPS

TWO-PIECE
FLASHING (SEE
DETAIL 6D, SHEET A-7)

GALVANIZED DOUBLE
ANGLE ("LOOSE")
STEEL LINTEL

SEALANT (BOTH SIDES)

PRECAST CONCRETE LINTEL

SEALANT (BOTH SIDES)

DOOR FRAME

4C

A-1

4B

STEEL ANGLE LINTEL

A-1

SHORT SPAN LINTELS—DOOR OPENINGS

(3 OPTIONS FOR THE CMU BACK-UP)

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NOTE:
TOP LAYER OF JOINT REINFORCEMENT TIES SHALL BE WITHIN 12" OF TOP OF MASONRY.

1x4 NAILER (RIPPED)
2x4 NAILER
COMPRRESSIBLE FILLER
SLOPING METAL COPING W/ CONTINUOUS CLEAT @ BOTH SIDES
SEALANT
4" BRICK (CLAY) VENEER
2" RIGID INSUL.
TOP OF BOND BEAM
8" CMU BOND BEAM W/ REINF.
LADDER TYPE HORIZONTAL JOINT REINF @ 16" O.C.
U.N.D. W/ ADJUSTABLE VENEER TIES

1"-3 5/8" SLOPE TO ROOF
PLYWOOD SHEATHING TOP & BOTTOM
WOOD NAILER W/ EXPANSION ANCHORS
2" RIGID INSULATION
HIGH TEMPERATURE MEMBRANE WRAPPED UNDER METAL COPING
2" RIGID INSULATION
3/4" SHEATHING
8" LIGHTWEIGHT CMU BACK-UP

10B METAL COPING PARAPET DETAIL
A-2

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WALL AIR CONTROL LAYER ("AIR BARRIER") OPTIONS

- Paint on the interior face of the CMU back-up
  (full height of the wall, including above any suspended ceilings).

- Sealant applied to all joints and terminations of the rigid insulating located in the wall cavity.

- Liquid or membrane applied proprietary systems.

WALL CONTROL LAYER NOTES

1) The inclusion of an air control layer is essential for a high performance building. Several products and options are available, with differing levels of cost and complexity. Some of the more common systems are listed above for the building designer to evaluate for the particular project requirements.

2) The need and design of a vapor control layer should also be considered by the building designer, especially for high humidity and humidity sensitive environments.

3) Building designer shall consider interfacing of wall control layers to other components of the building envelope (roof, foundation, openings, etc.).

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