CONTINUOUS HORIZONTAL STEEL REINFORCEMENT

GROUT BOND BEAM UNITS
SOLID, CONTINUOUS

BOND BEAM UNITS
BACKER ROD & SEALANT
(Both Sides)

#15 FELT BOND BREAKER
DISCONTINUE HORIZONTAL JOINT
REINFORCEMENT & CONTROL JOINT

GROUT OR MORTAR

RAKE JOINT
BACKER ROD & SEALANT
(Both Sides)

CROSS WIRE
(ALIGN W/ WEB)

PREFORMED CONTROL JOINT
GASKET

DISCONTINUE HORIZONTAL JOINT
REINFORCEMENT & CONTROL JOINT

CROSS WIRE
(ALIGN W/ WEB)

MASONRY CONTROL JOINT @
CONTINUOUS BOND BEAM DETAIL

MASONRY CONTROL JOINT - MICHIGAN DETAIL

MASONRY CONTROL JOINT - ALTERNATE DETAIL
NOTE: 8" BEARING IS SHOWN AND IS TYPICAL, BUT SHOULD BE INCREASED IF NECESSARY BASED ON STRUCTURAL BEARING CALCULATIONS.

STEEL REINFORCEMENT IN SOLID GROUTED CELLS

CONTROL JOINT (BACKER ROD AND SEALANT)

GROUT SOLID (IN ONE LIFT) TOTAL NUMBER OF COURSES REQUIRED PER STRUCTURAL DESIGN (3 COURSES DEPICTED IN THIS DETAIL)

MASONRY LINTEL (MAY BE PRE-CAST OR FIELD ASSEMBLED)

SLIP PLANE (BACKER ROD & SEALANT)

GROUT SOLID UNDER LINTEL BEARING AS REQUIRED

NOTE: EVEN FOR FIELD ASSEMBLED MASONRY LINTELS, DO NOT OVERLAP/INTERLOCK THE LINTEL REINFORCING WITH THE WALL REINFORCING.

PERFORMED CONTROL JOINT GASKET (SEE SHEET A-10)

BACKER ROD AND SEALANT ON BED JOINT ON ALL THREE EXPOSED FACES

#15 FELT (BOND BREAKER)

JAMB OPENING FACE

ELEVATION VIEW

ISOMETRIC VIEW

SLIP PLANE/CONTROL JOINT @ LONG SPAN MASONRY LINTELS

A-10 (SPANS OF APPROXIMATELY 12' UNTIL 20')
**PLAN OF LINTEL/BEARING PLATE**

- Bearing Plate
- Bottom Flange (and Web) of Lintel Beam
- Slotted Holes in Beam Flanges
- Steel Reinforcement in Solid Grouted Cells
- Control Joint (Backer Rod and Sealant)
- Steel Beam and Plate Lintel (with Face Shell Coats) with Flexible Flashing Membrane and Drip Edge, Terminate W/ End Dams
- Slip Plane (Backer Rod & Sealant)
- Grout Solid Under Lintel Bearing as Required
- Lintel Plate
- "J" Anchors w/ Threaded Projections, Do Not Fully Tighten Nuts to Allow for In-Plane Movement

**NOTES:**
1. Do not weld steel beam plate lintel to bearing plate (typical both sides).
2. Steel beam to have slots on bottom flanges to allow for in-plane movement.

**ELEVATION VIEW**

**SLIP PLANE/CONTROL JOINT @ LONG SPAN STEEL LINTELS**

**ISOMETRIC VIEW**
ELEVATION VIEW

REINFORCED MASONRY OPENINGS & ASSOCIATED CONTROL JOINT DESIGN
(SPANS UP TO APPROXIMATELY 12')

NOTES:

1) TRADITIONALLY, CONTROL JOINTS HAVE TYPICALLY BEEN LOCATED AT OR VERY CLOSE TO THE SIDES OF OPENINGS. HOWEVER, IT IS THE MMB'S PREFERENCE FOR CONTROL JOINTS TO BE LOCATED AWAY FROM THE EDGE OF OPENINGS AND TO ADD REINFORCEMENT AROUND THE OPENINGS.

2) FOR BEST PERFORMANCE, THE VERTICAL REINFORCEMENT SHOULD BE PREFERABLY PLACED IN THE CELL IMMEDIATELY ADJACENT TO THE OPENING. HOWEVER, IF THIS CELL IS CONGESTED, THE VERTICAL REINFORCEMENT MAY BE PLACED IN THE 2nd CELL FROM THE OPENING.

3) ON LONG SPAN OPENINGS IT IS RECOMMENDED TO GROUT BOTH THE 1st AND 2nd CELLS FROM THE OPENING TO PROVIDE ADDITIONAL RESISTANCE FOR ATTACHING THE DOOR OR WINDOW FRAME.

4) FOR CONTROL JOINT DETAILS SEE SHEET A-9.