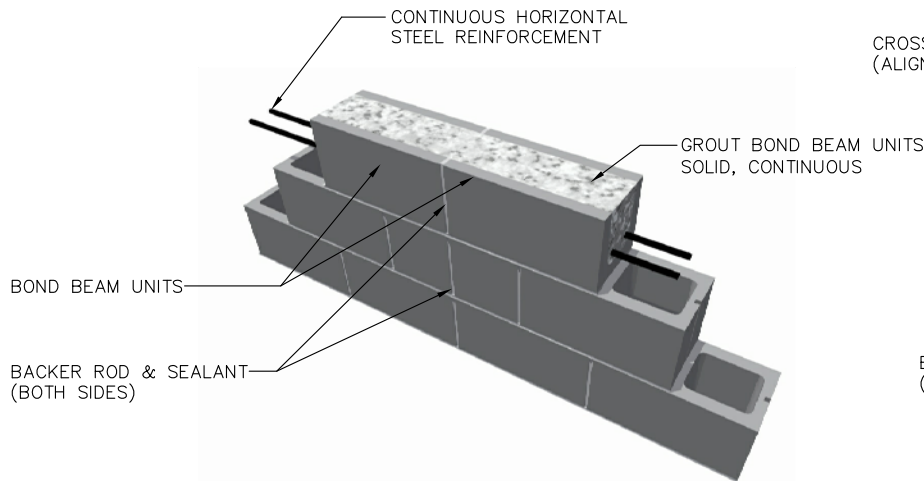


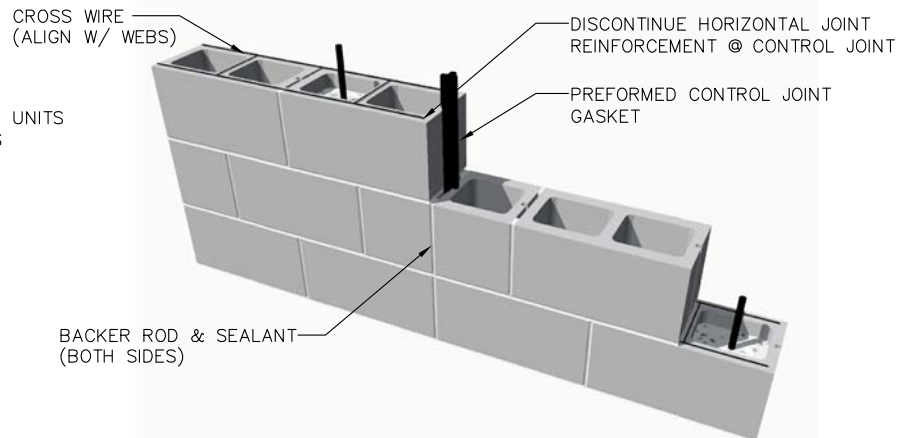
8A  
A-9

MASONRY CONTROL  
JOINT — MICHIGAN DETAIL



8C  
A-9

MASONRY CONTROL JOINT @  
CONTINUOUS BOND BEAM DETAIL  
(PER STRUCTURAL REQUIREMENTS)



8B  
A-9

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)

LINTEL STEEL  
REINFORCEMENT

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

SLIP PLANE  
(BACKER ROD & SEALANT)

GROUT SOLID UNDER  
LINTEL BEARING AS REQUIRED

OPENING

ELEVATION VIEW

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

PREFORMED CONTROL  
JOINT GASKET (SEE  
SHEET A-9)

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

#15 FELT (BOND BREAKER)

JAMB OPENING  
FACE

ISOMETRIC VIEW

SLIP PLANE/CONTROL JOINT  
@ LONG SPAN MASONRY LINTELS  
(SPANS OF APPROXIMATELY 12' UP TO 20')

9

A-10

DAILEY ENGINEERING, INC.  
8485 STEPHENSON ROAD  
ONSTED, MI 48865

PH. # (517) 467-9000  
FAX # (517) 467-9010



the Masonry Institute of Michigan, Inc.



GENERIC WALL DESIGN - 8" SINGLE WYTHE CMU

IN CHARGE:

DRAWN: M.W.F.

APPROVED:

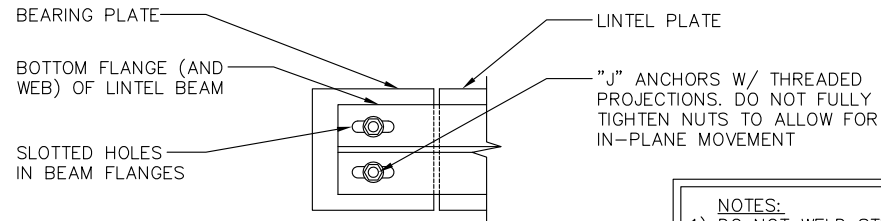
DATE: 05/03/2011

TITLE:

SLIP PLANE/  
CONTROL JOINT  
@ MASONRY LINTELS

SHEET:

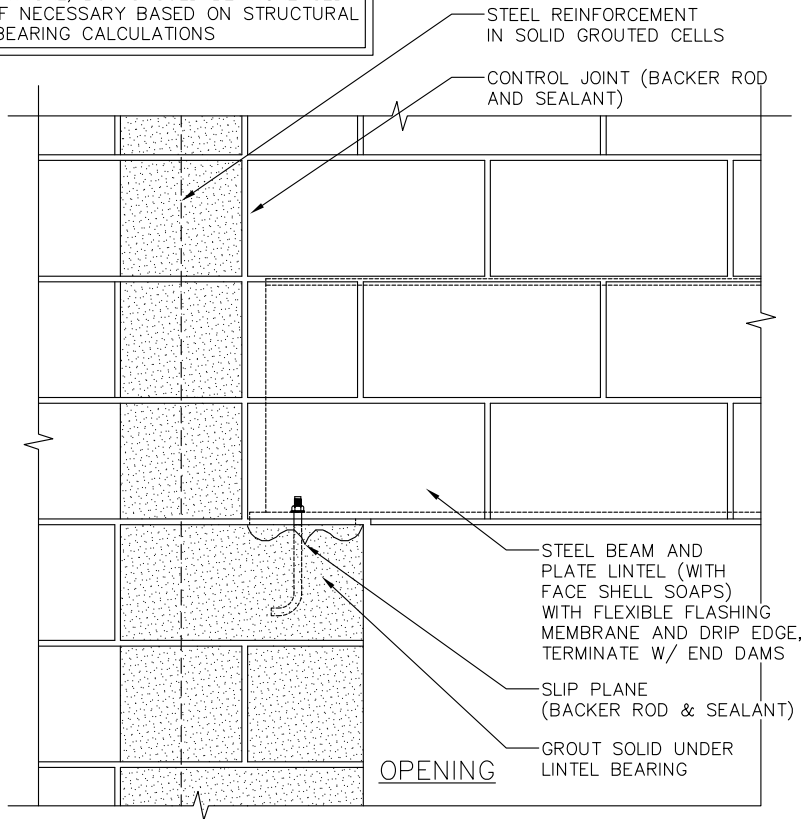
A-10



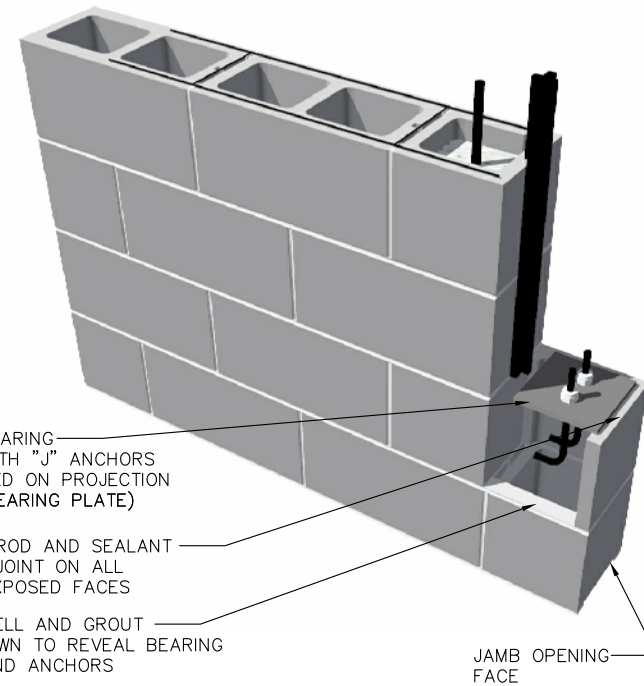
PLAN OF LINTEL/BEARING PLATE

NOTE: 8" BEARING IS SHOWN AND IS TYPICAL, BUT SHOULD BE INCREASED IF NECESSARY BASED ON STRUCTURAL BEARING CALCULATIONS

- 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



ISOMETRIC VIEW

SLIP PLANE/CONTROL JOINT  
@ LONG SPAN STEEL LINTELS

10  
A-11

CONTROL JOINT (LOCATED AWAY FROM EDGE OF WALL OPENINGS (NOTE #4))

SHORT SPAN MASONRY LINTEL (SEE DETAIL 3A ON SHEET A-4)

MAX. CONTROL JOINT SPACING (TYPICALLY 20'-0")

CONTROL JOINT (LOCATED AWAY FROM EDGE OF WALL OPENINGS (NOTE #4))

LONG SPAN MASONRY LINTEL (SEE DETAIL 4A ON SHEET A-5)

12" MIN. (TYP.)

SHORT SPAN OPENING

LONG SPAN OPENING

VERTICAL REINFORCEMENT IN SOLID GROUTED CELLS REQUIRED ON BOTH SIDES OF OPENINGS (SEE NOTE #2 & #3)

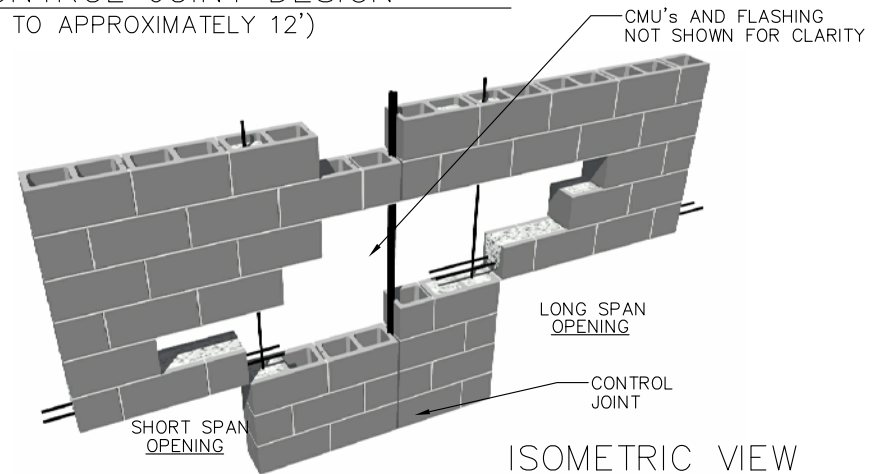
LADDER JOINT REINFORCEMENT IN MORTAR JOINT BELOW SILL FROM CONTROL JOINT TO CONTROL JOINT

## 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 MIM'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.

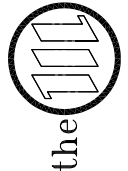


## ISOMETRIC VIEW

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**the Masonry Institute of Michigan, Inc.**



GENERIC WALL DESIGN - 8" SINGLE WYTHE CMU

IN CHARGE:  
DRAWN: M.W.F.  
APPROVED:  
DATE: 05/03/2011  
TITLE:  
REINFORCED MASONRY  
OPENING & ASSOCIATED  
CONTROL JOINT DESIGN  
SHEET:

A-12