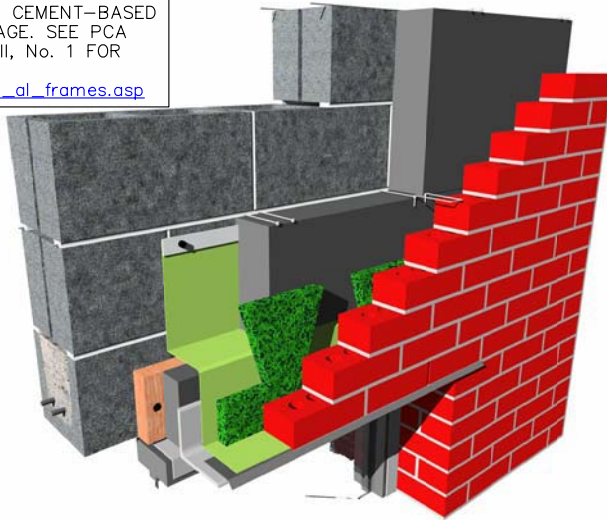


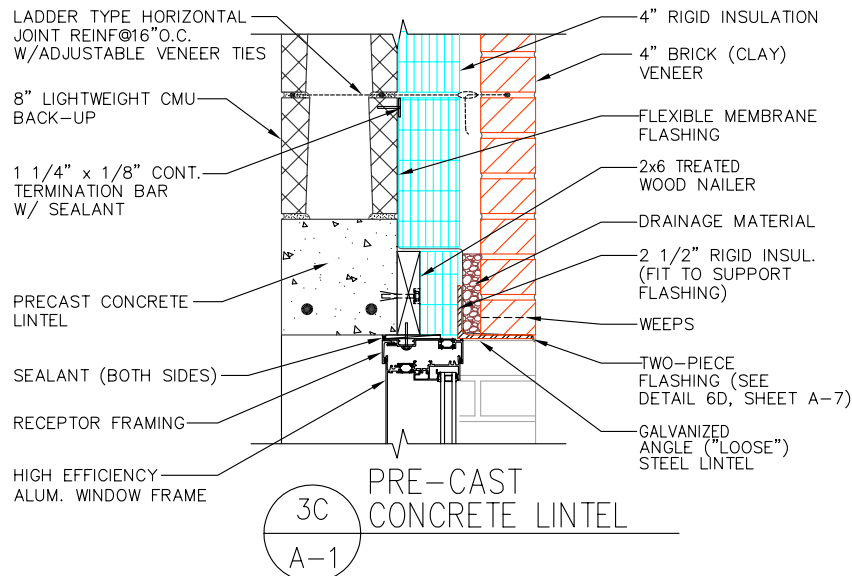
NOTE:

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

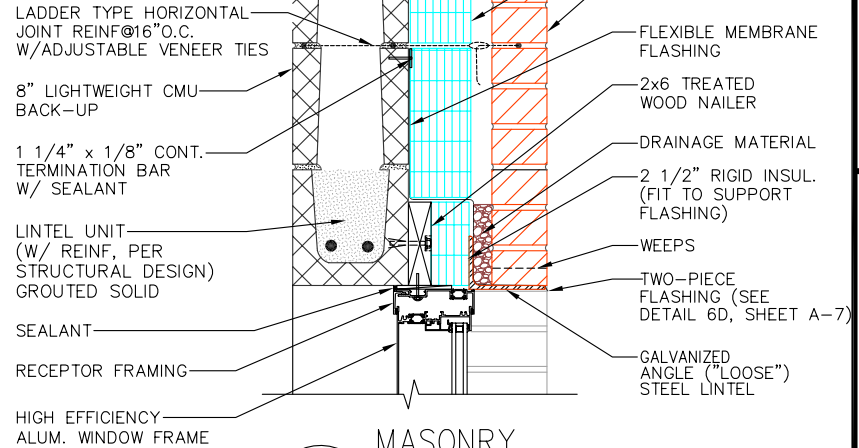


ISOMETRIC VIEW

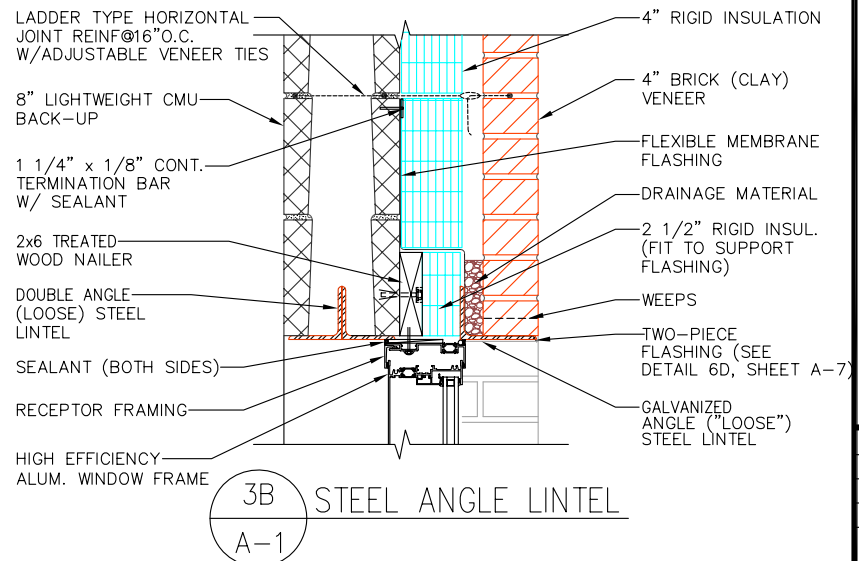


PRE-CAST
CONCRETE LINTEL

**NOTE: MASONRY LINTEL
MAY BE PRECAST OR FIELD
ASSEMBLED**



MASONRY
LINTEL (PREFERRED)



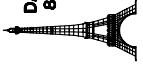
STEEL ANGLE LINTEL

SHORT SPAN LINTELS—WINDOW OPENINGS — USING RECEPTORS

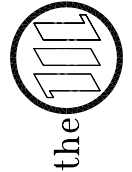
(3 OPTIONS FOR THE CMU BACK-UP)

DAILY 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 — HIGH R MULTI WYTHE (8" CMU W/ BRICK VENEER)

IN CHARGE:

DRAWN: M.W.F.

APPROVED:

DATE: 05/03/2011

TITLE:

SHORT SPAN LINTEL
DETAILS—WINDOWS

SHEET:

A-4

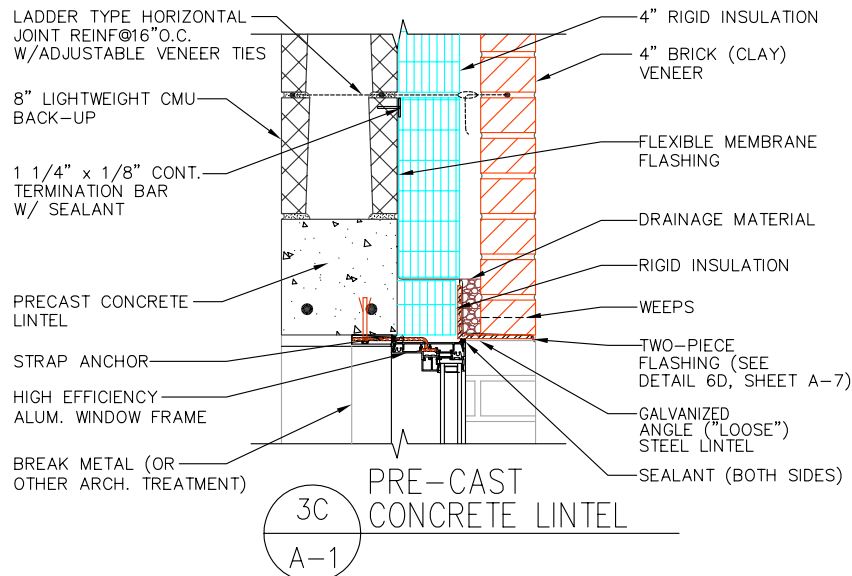
NOTE:

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

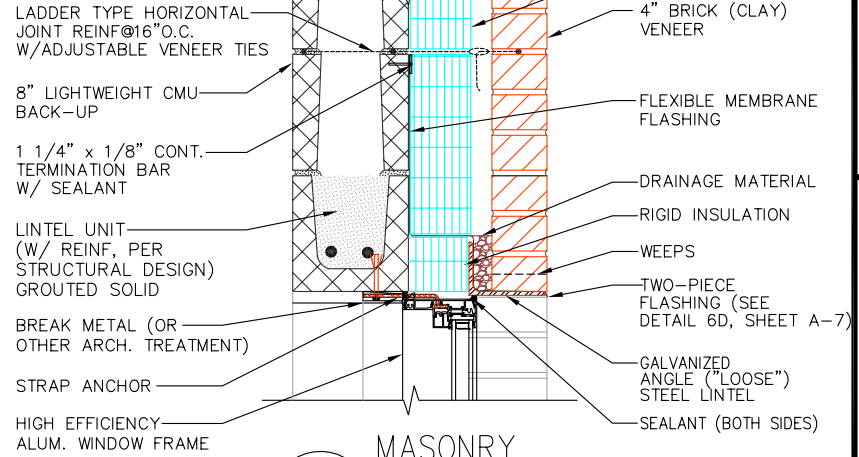


ISOMETRIC VIEW

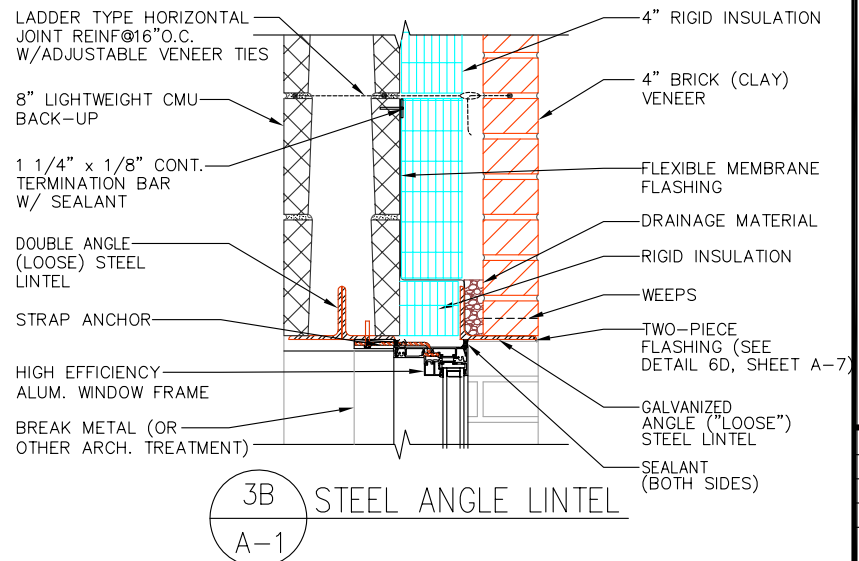


PRE-CAST CONCRETE LINTEL

NOTE: MASONRY LINTEL MAY BE PRECAST OR FIELD ASSEMBLED



MASONRY LINTEL (PREFERRED)

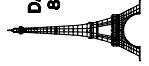


STEEL ANGLE LINTEL

SHORT SPAN LINTELS—WINDOW OPENINGS — USING STRAP ANCHORS

(3 OPTIONS FOR THE CMU BACK-UP)

DALLEY ENGINEERING, INC.
8486 STEPHENSON ROAD
ONSTED, MI 48865
PH. # (517) 467-9000
FAX # (517) 467-9010



Masonry Institute of Michigan, Inc.



the

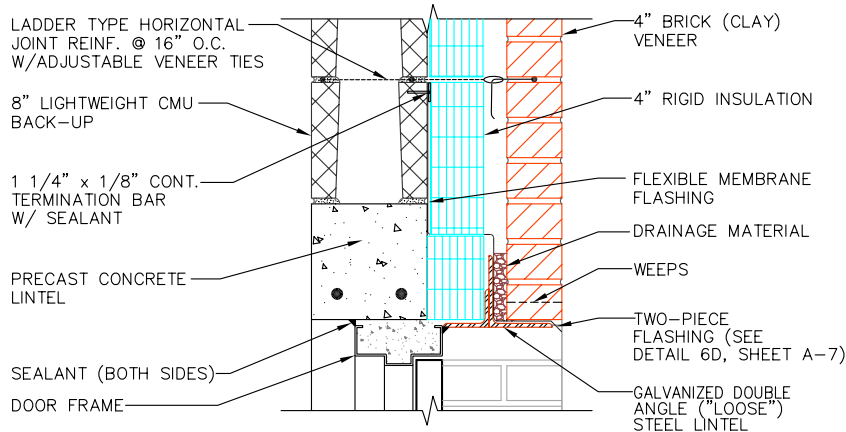
GENERIC WALL DESIGN — HIGH R MULTI WYTHE (8" CMU W/ BRICK VENEER)

IN CHARGE:	
DRAWN:	M.W.F.
APPROVED:	
DATE:	05/03/2011
TITLE:	ALTERNATE SHORT SPAN LINTEL DETAILS—WINDOWS
SHEET:	A-4.1

NOTE:

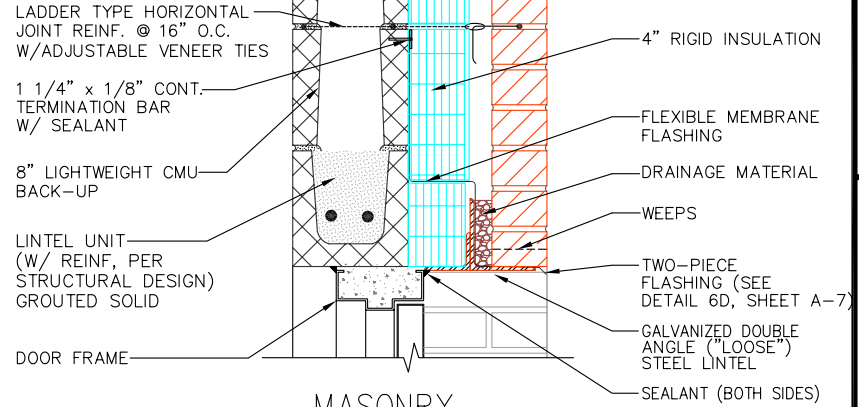
UNPROTECTED ALUMINUM DOOR AND WINDOW FRAMES CAN INTERACT WITH CEMENT-BASED MATERIALS AND INCUR DAMAGE. SEE PCA "MASONRY TODAY" VOLUME II, No. 1 FOR RECOMMENDATIONS.

www.cement.org/masonry/cc_al_frames.asp

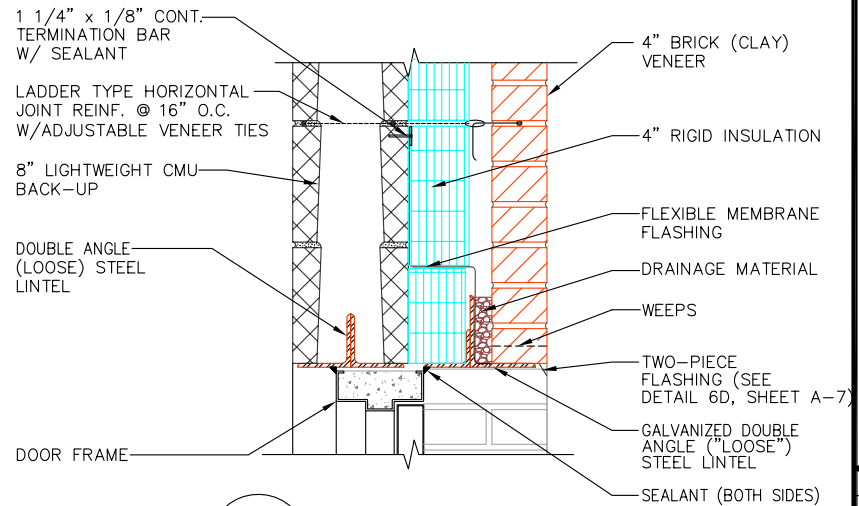


4C
A-1
PRE-CAST CONCRETE LINTEL

NOTE: MASONRY LINTEL MAY BE PRECAST OR FIELD ASSEMBLED



4A
A-1
MASONRY LINTEL (PREFERED)



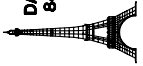
4B
A-1
STEEL ANGLE LINTEL

SHORT SPAN LINTELS-DOOR OPENINGS

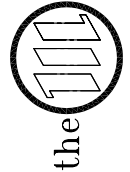
(3 OPTIONS FOR THE CMU BACK-UP)

DALLEY ENGINEERING, INC.
 8485 STEPHENSON ROAD
 ONSTED, MI 49265

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



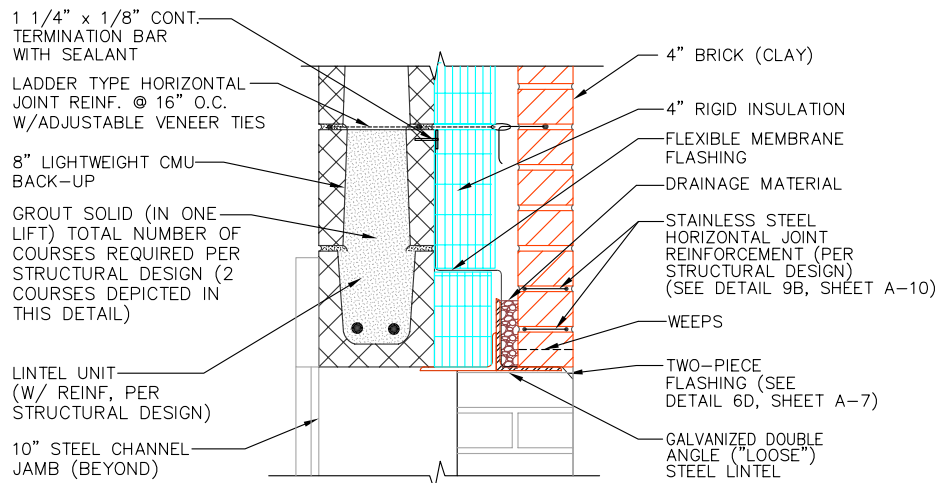
the Masonry Institute of Michigan, Inc.



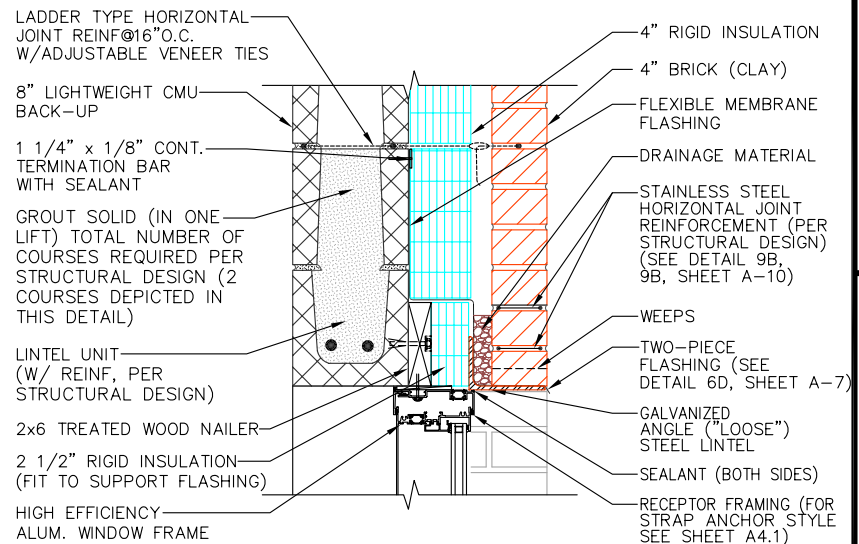
GENERIC WALL DESIGN - HIGH R MULTI WYTHE (8" CMU W/ BRICK VENEER)

IN CHARGE:
 DRAWN: M.W.F.
 APPROVED:
 DATE: 05/03/2011
 TITLE:
 SHORT SPAN LINTEL DETAILS-DOORS

SHEET:
 A-5



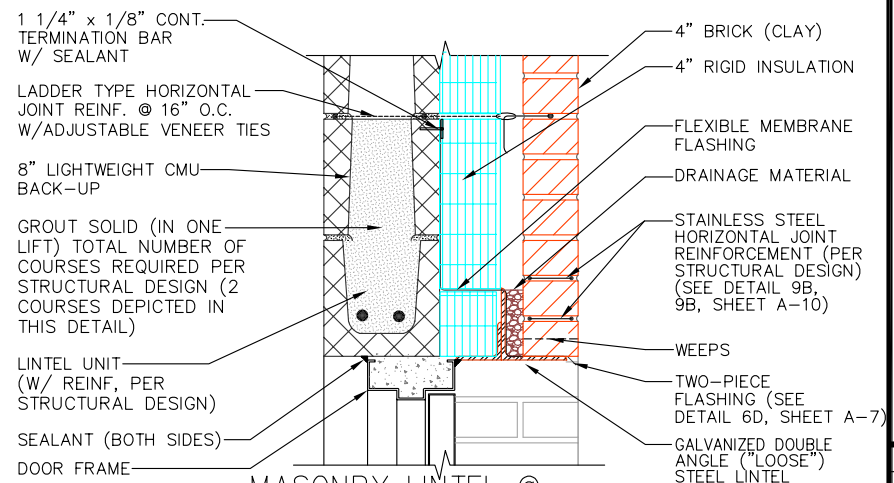
5C
A-1 MASONRY LINTEL @ O.H. DOOR OPENING



5A
A-1 MASONRY LINTEL @ WINDOW OPENING

NOTES:

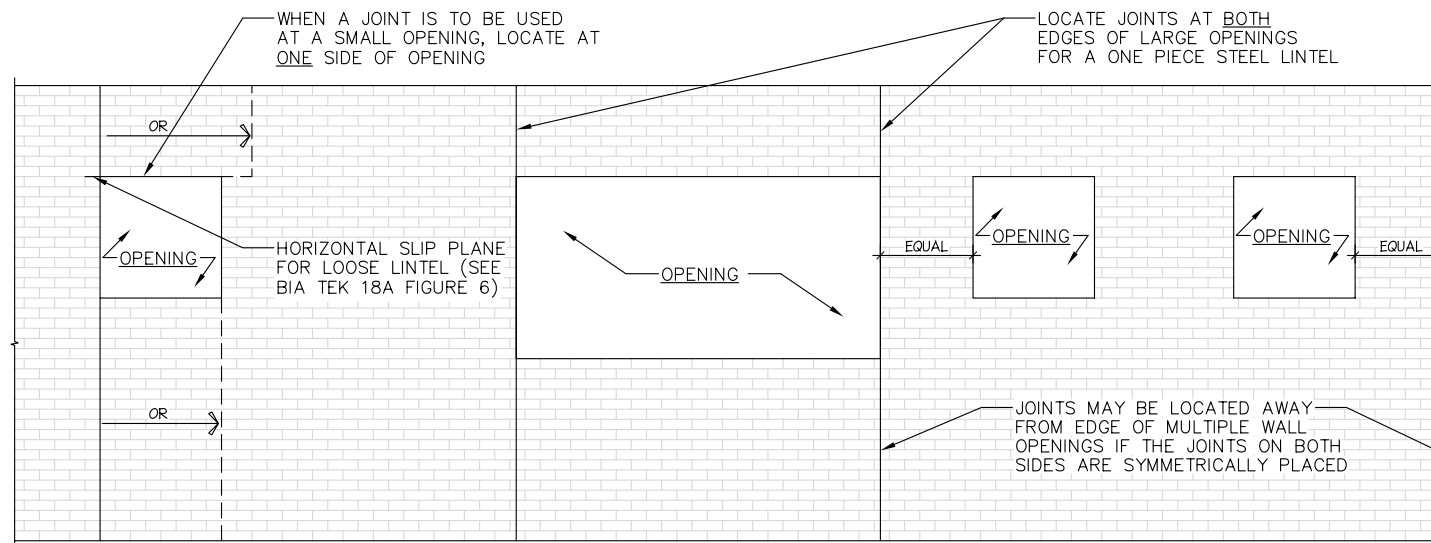
- 1) FOR ADDITIONAL INFORMATION ON THE REINFORCED BRICK LINTEL DEPICTED IN THESE THREE DETAILS SEE DETAIL 9B ON SHEET A-10.
- 2) UNPROTECTED ALUMINUM DOOR AND WINDOW FRAMES CAN INTERACT WITH CEMENT-BASED MATERIALS AND INCUR DAMAGE. SEE PC "MASONRY TODAY" VOLUME II, No. 1 FOR RECOMMENDATIONS.
www.cement.org/masonry/cc_al_frames.asp



5B
A-1 MASONRY LINTEL @ MULTIPLE MAN DOOR OPENINGS

LONG SPAN LINTELS

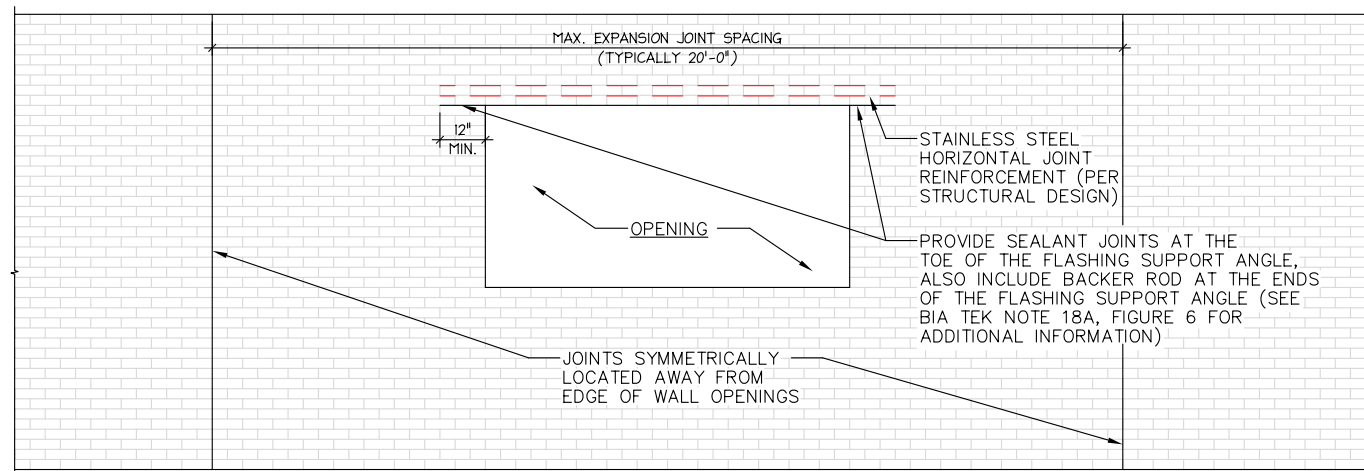
(3 OPTIONS FOR WINDOWS, MAN DOORS & OVERHEAD DOORS)



9A
A-10

BRICK EXPANSION JOINTS—
PLACEMENT LOCATION

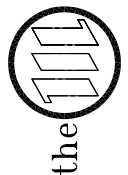
ELEVATION VIEW



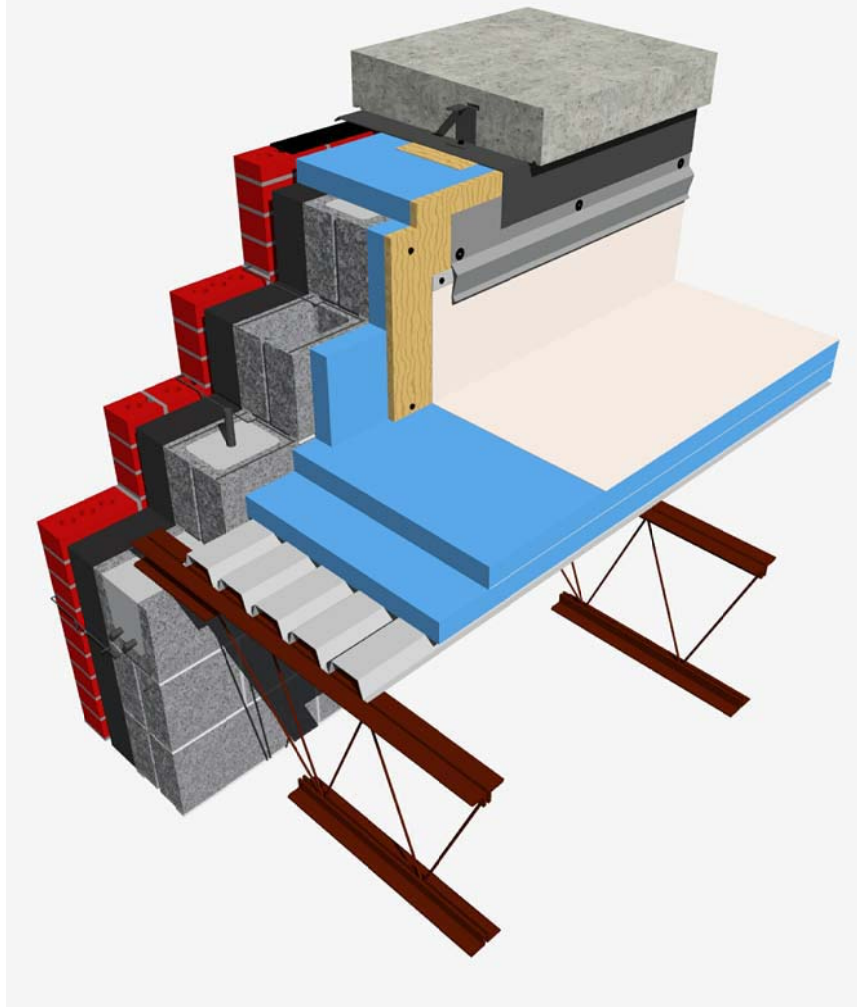
9B
A-10

BRICK EXPANSION JOINTS—PLACEMENT LOCATIONS
WITH "REINFORCED BRICK LINTEL OPENINGS" (PREFERRED)

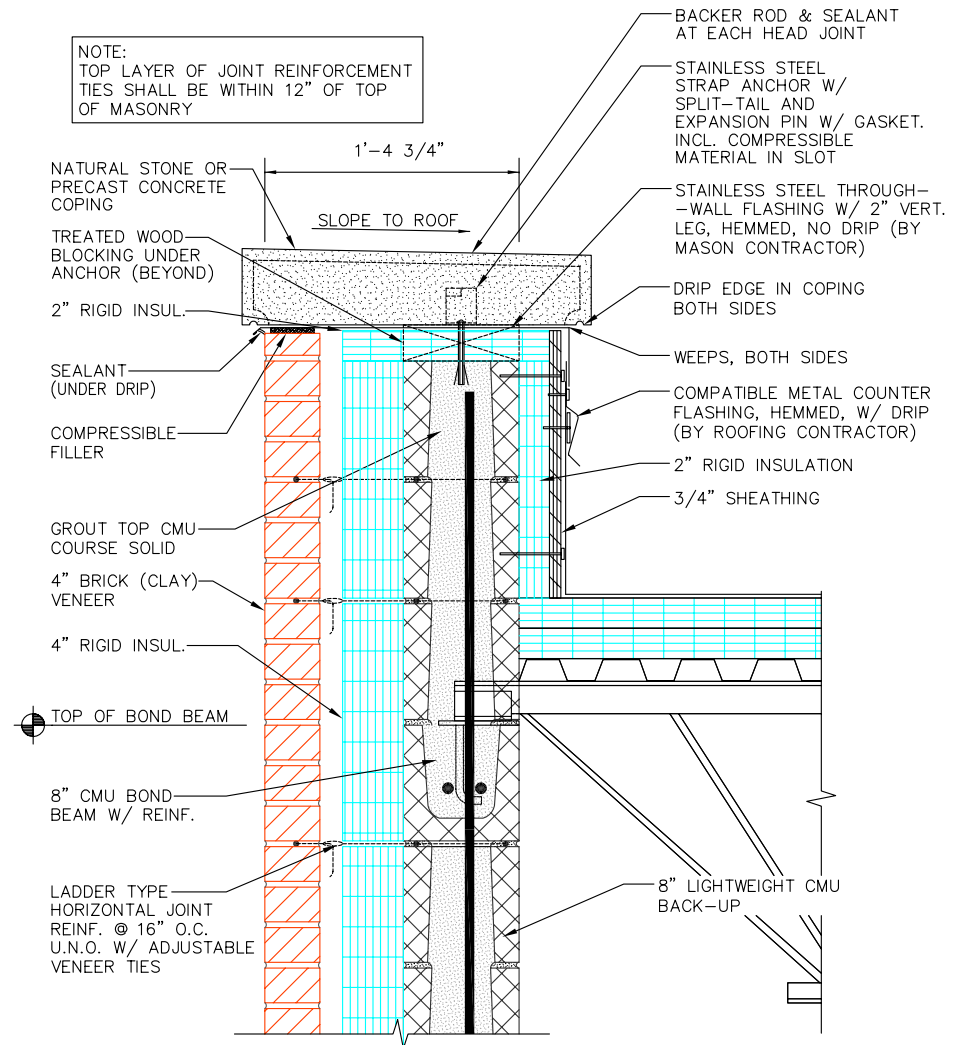
ELEVATION VIEW



IN CHARGE:	
DRAWN:	M.W.F.
APPROVED:	
DATE:	05/03/2011
TITLE:	BRICK EXPANSION JOINT LOCATION DETAILS
SHEET:	A-10



ISOMETRIC VIEW

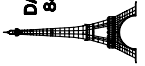


10A
A-2

NATURAL STONE OR PRECAST
CONCRETE COPING PARAPET DETAIL

DAILY ENGINEERING, INC.
8485 STEPHENSON ROAD
ONSTED, MI 49886

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



the Masonry Institute of Michigan, Inc.

GENERIC WALL DESIGN - HIGH R MULTI WYTHE (8" CMU W/ BRICK VENEER)

IN CHARGE:

DRAWN: M.W.F.

APPROVED:

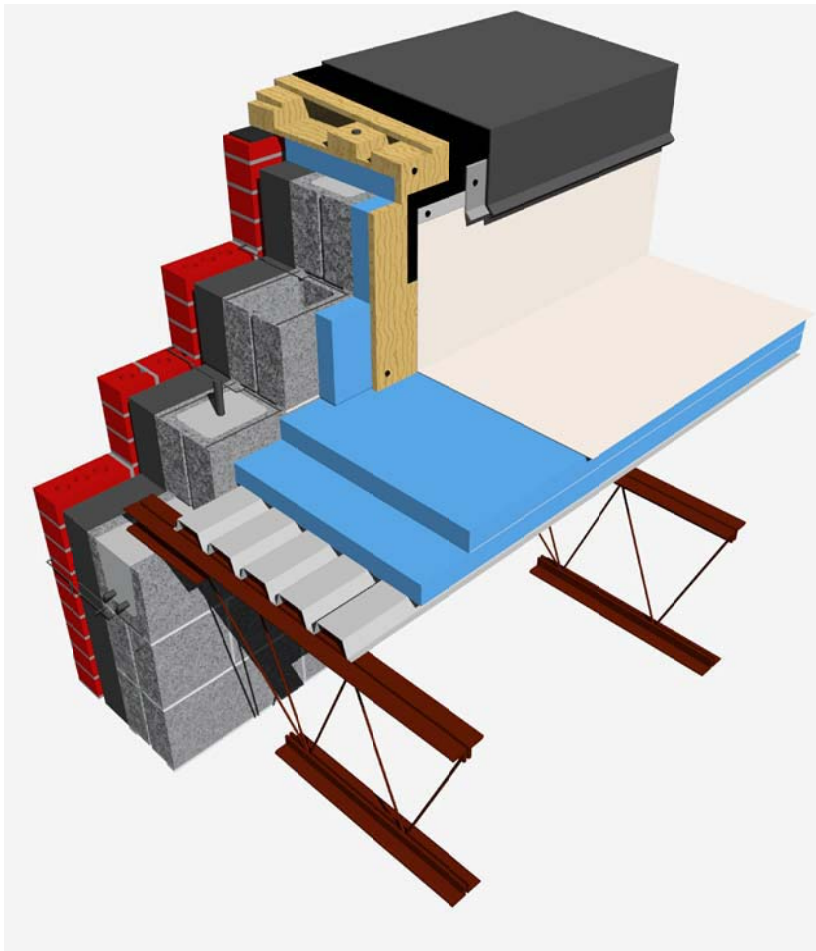
DATE: 05/03/2011

TITLE:

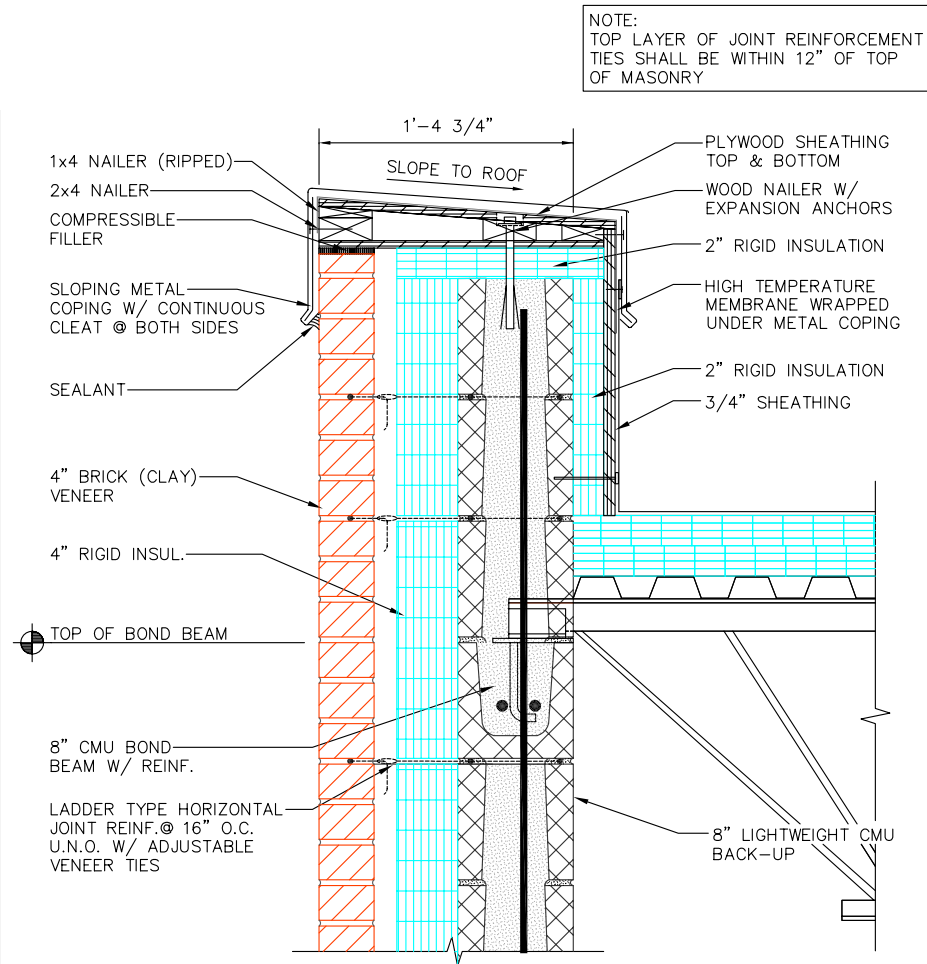
PARAPET DETAIL
W/ MASONRY COPING

SHEET:

A-11



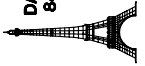
ISOMETRIC VIEW



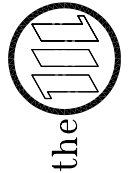
10B
A-2 METAL COPING PARAPET DETAIL

DALLEY ENGINEERING, INC.
8486 STEPHENSON ROAD
ONSTED, MI 49265

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



the Masonry Institute of Michigan, Inc.



GENERIC WALL DESIGN - HIGH R MULTI WYTHE (8" CMU W/ BRICK VENEER)

IN CHARGE:	
DRAWN:	M.W.F.
APPROVED:	
DATE:	05/03/2011
TITLE:	PARAPET DETAIL W/ METAL COPING
SHEET:	A-12

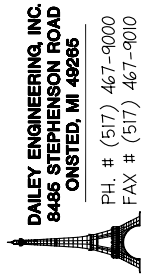
A-12

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
INSULATION 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.).



IN CHARGE:	
DRAWN:	M.W.F.
APPROVED:	
DATE:	05/03/2011
TITLE: WALL AIR CONTROL LAYER OPTIONS AND NOTES	
SHEET: A-13	