

# NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



## BUREAU OF BRIDGE DESIGN



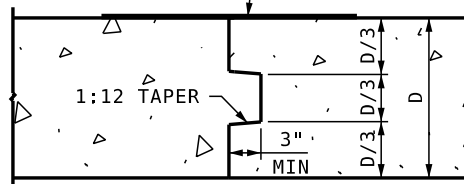
DESCRIPTION:

CONCRETE WALL JOINT -  
CONSTRUCTION JOINT

DATE REVISED:

2/8/2016

ITEM 538.2, BARRIER MEMBRANE, PEEL AND  
STICK - VERTICAL SURFACES (F), 2'-0"  
WIDE, CENTERED ON JOINT.



### CONSTRUCTION JOINT DETAIL

*(REINFORCING STEEL EXTENDS THROUGH THE JOINT, NO WATERSTOP,  
NO CHAMFER. PLAIN STEEL AND SLEEVES MAY BE USED IN PLACE OF  
THE SHEAR KEY)*

MODIFY TO  
FIT PROJECT

# NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



## BUREAU OF BRIDGE DESIGN

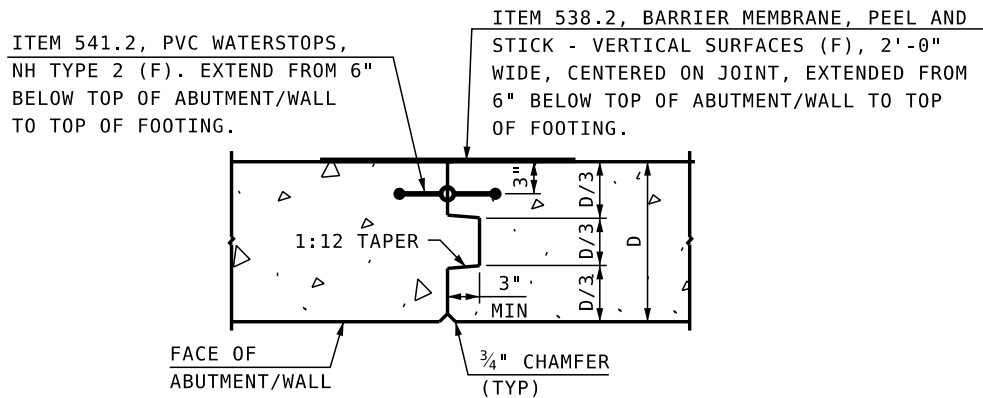


DESCRIPTION:

CONCRETE WALL JOINT -  
CONTRACTION JOINT

DATE REVISED:

2/8/2016



### CONTRACTION JOINT DETAIL

(VERTICAL CONTRACTION JOINTS ARE REQUIRED AT A MAXIMUM OF 30 FT. ± OF WALL LENGTH. REINFORCING STEEL DOES NOT EXTEND THROUGH THE JOINT BUT PLAIN STEEL AND SLEEVES MAY BE USED IN PLACE OF THE SHEAR KEY. THE CHAMFER INDUCES A CONTROLLED CRACK, WHEREAS, THE CONSTRUCTION JOINT IS FOR CONSTRUCTION PURPOSES ONLY, NOT FOR CONTROLLING CRACKS. NOT TO BE USED IN FOOTINGS.)

MODIFY TO  
FIT PROJECT

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## BUREAU OF BRIDGE DESIGN

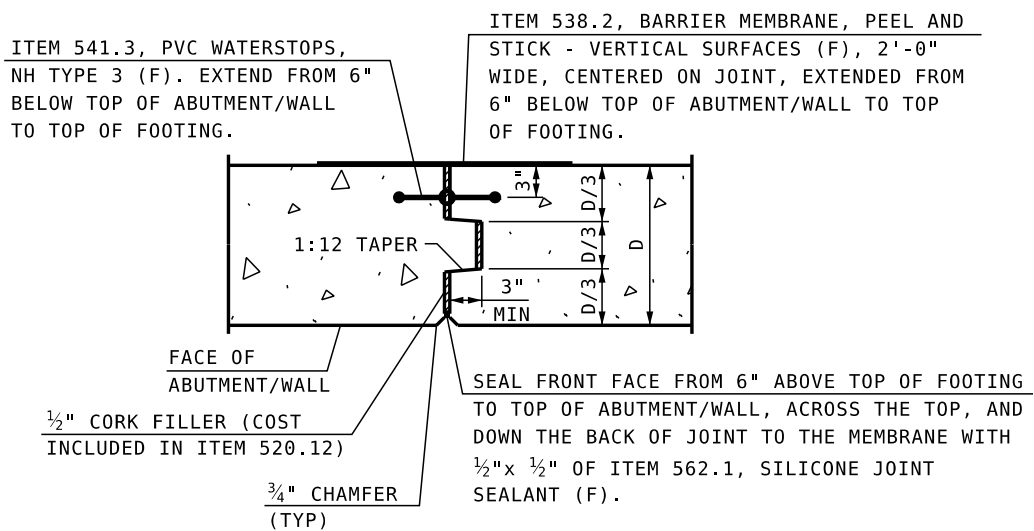


DESCRIPTION:

CONCRETE WALL JOINT -  
EXPANSION JOINT

DATE REVISED:

2/8/2016



### EXPANSION JOINT DETAIL

(VERTICAL EXPANSION JOINTS ARE REQUIRED AT A MAXIMUM OF 90 FT. ± OF WALL LENGTH. REINFORCING STEEL DOES NOT EXTEND THROUGH THE JOINT BUT PLAIN STEEL AND SLEEVES MAY BE USED IN PLACE OF THE SHEAR KEY. NOT TO BE USED IN FOOTINGS.)

MODIFY TO  
FIT PROJECT

# NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

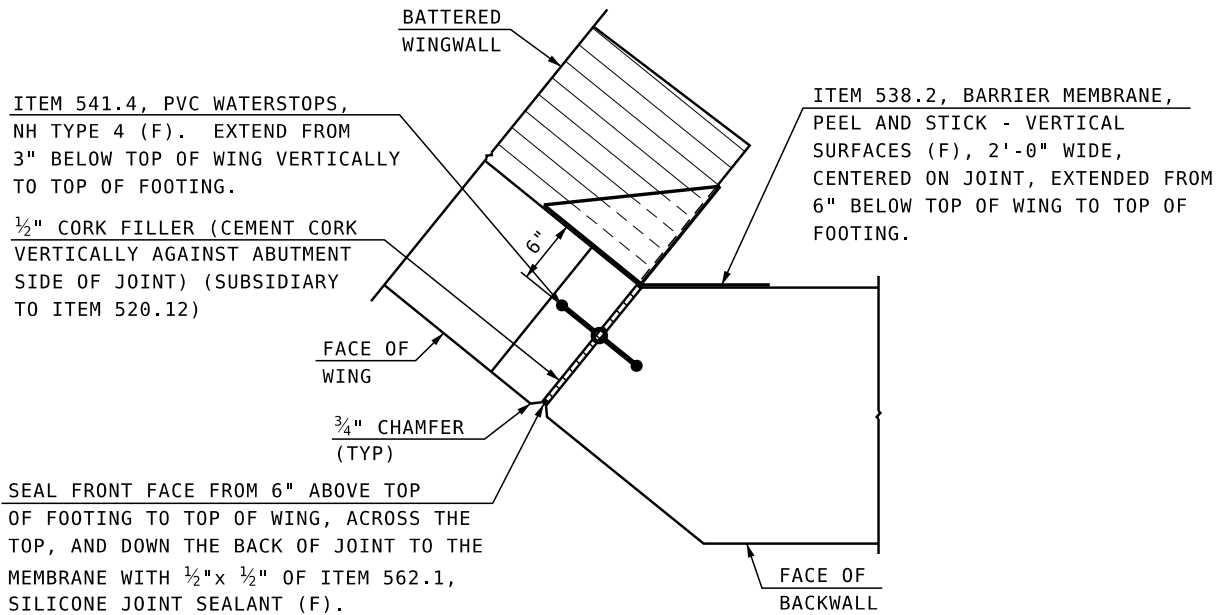


## BUREAU OF BRIDGE DESIGN



DESCRIPTION: **CONCRETE WALL JOINT -  
ABUTMENT-BATTERED WING EXPANSION JOINT**

DATE REVISED:  
2/8/2016



### EXPANSION JOINT DETAIL (ABUTMENT TO BATTERED WINGWALL)

(REINFORCING STEEL DOES NOT EXTEND THROUGH THE JOINT BUT PLAIN STEEL AND SLEEVES MAY BE USED INPLACE OF THE SHEAR KEY)

MODIFY TO  
FIT PROJECT

# NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

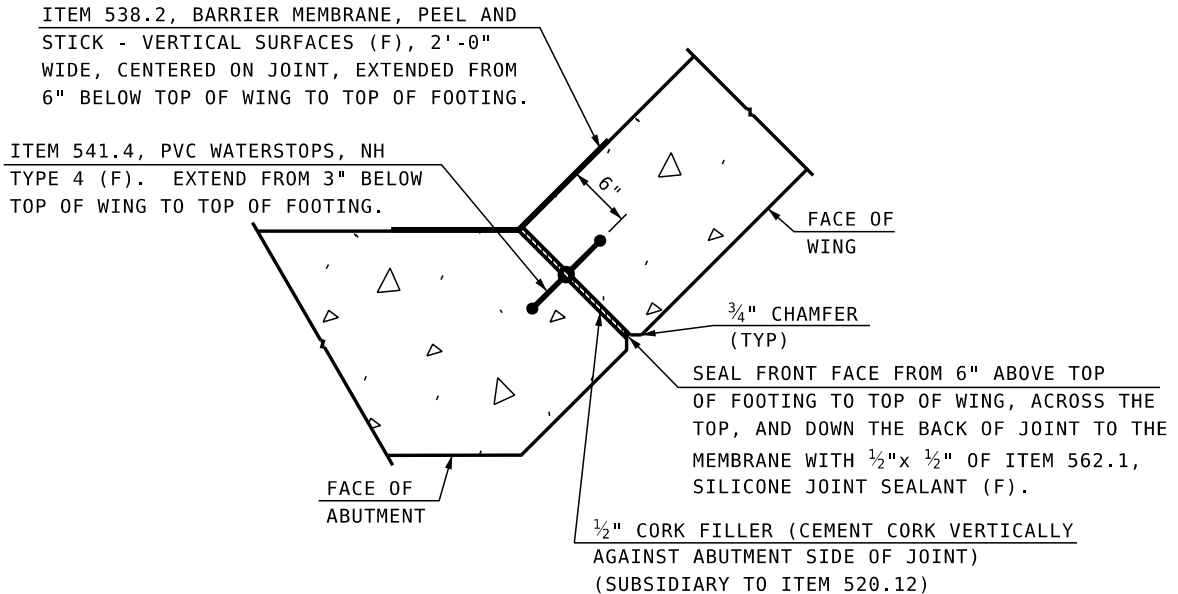


## BUREAU OF BRIDGE DESIGN



DESCRIPTION: **CONCRETE WALL JOINT -  
ABUTMENT-WING EXPANSION JOINT**

DATE REVISED:  
2/8/2016



### **EXPANSION JOINT DETAIL** **(ABUTMENT TO WINGWALL)**

*(REINFORCING STEEL DOES NOT EXTEND THROUGH THE JOINT BUT PLAIN STEEL AND SLEEVES MAY BE USED INPLACE OF THE SHEAR KEY)*

**MODIFY TO  
FIT PROJECT**

# NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

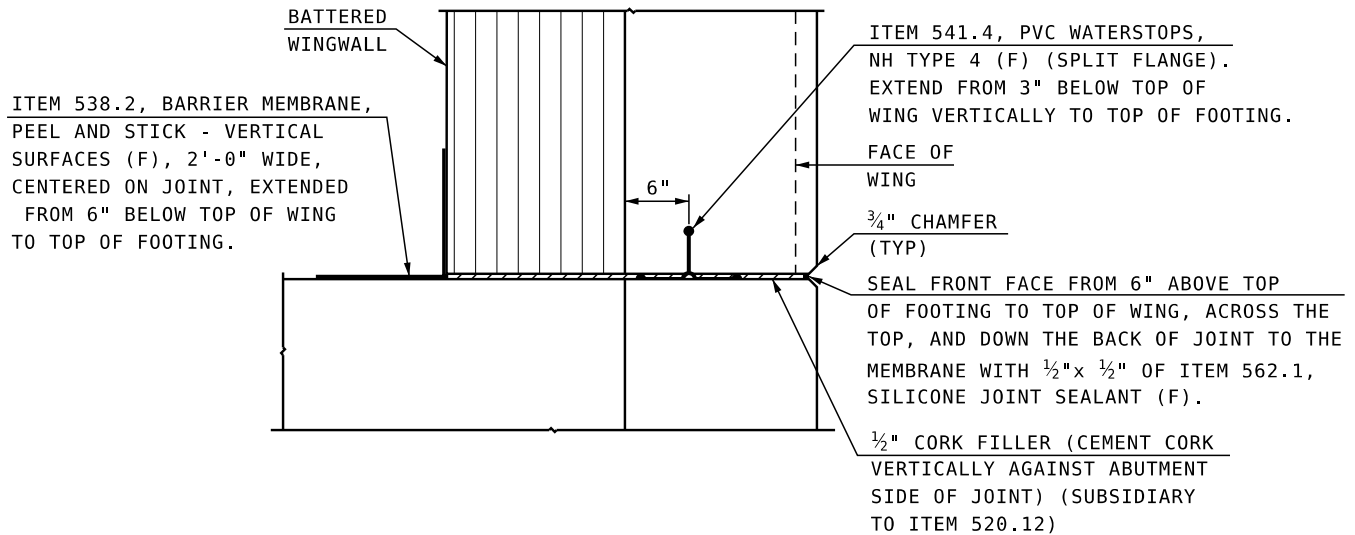


## BUREAU OF BRIDGE DESIGN



DESCRIPTION: **CONCRETE WALL JOINT -  
ABUTMENT-U-BACK WING EXPANSION JOINT**

DATE REVISED:  
**2/8/2016**



### **EXPANSION JOINT DETAIL** **(ABUTMENT TO U-BACK BATTERED WINGWALL)**

*(REINFORCING STEEL DOES NOT EXTEND THROUGH THE JOINT BUT PLAIN STEEL AND SLEEVES MAY BE USED INPLACE OF THE SHEAR KEY)*

**MODIFY TO  
FIT PROJECT**

# NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



## BUREAU OF BRIDGE DESIGN



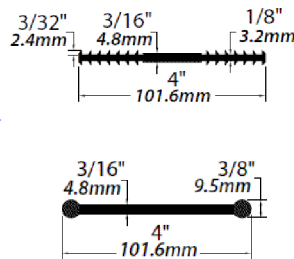
DESCRIPTION:

CONCRETE WALL JOINT -  
WATERSTOP PROFILES

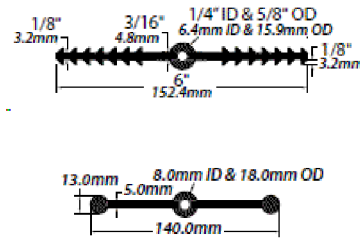
DATE REVISED:

7/31/2023

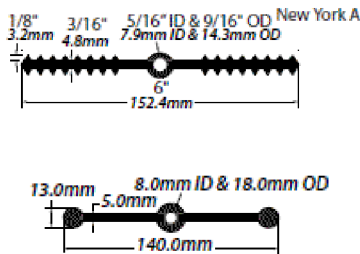
ITEM 541.1, PVC WATERSTOPS,  
NH TYPE 1



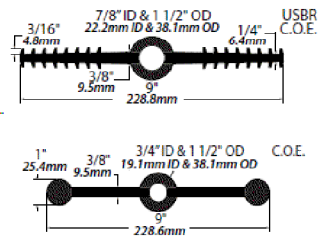
ITEM 541.2, PVC WATERSTOPS,  
NH TYPE 2



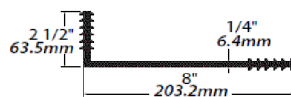
ITEM 541.3, PVC WATERSTOPS,  
NH TYPE 3



ITEM 541.4, PVC WATERSTOPS,  
NH TYPE 4



ITEM 541.5, PVC WATERSTOPS,  
NH TYPE 5



SPLIT FLANGE OPTION  
TYPE 1, 2, 3, & 4

