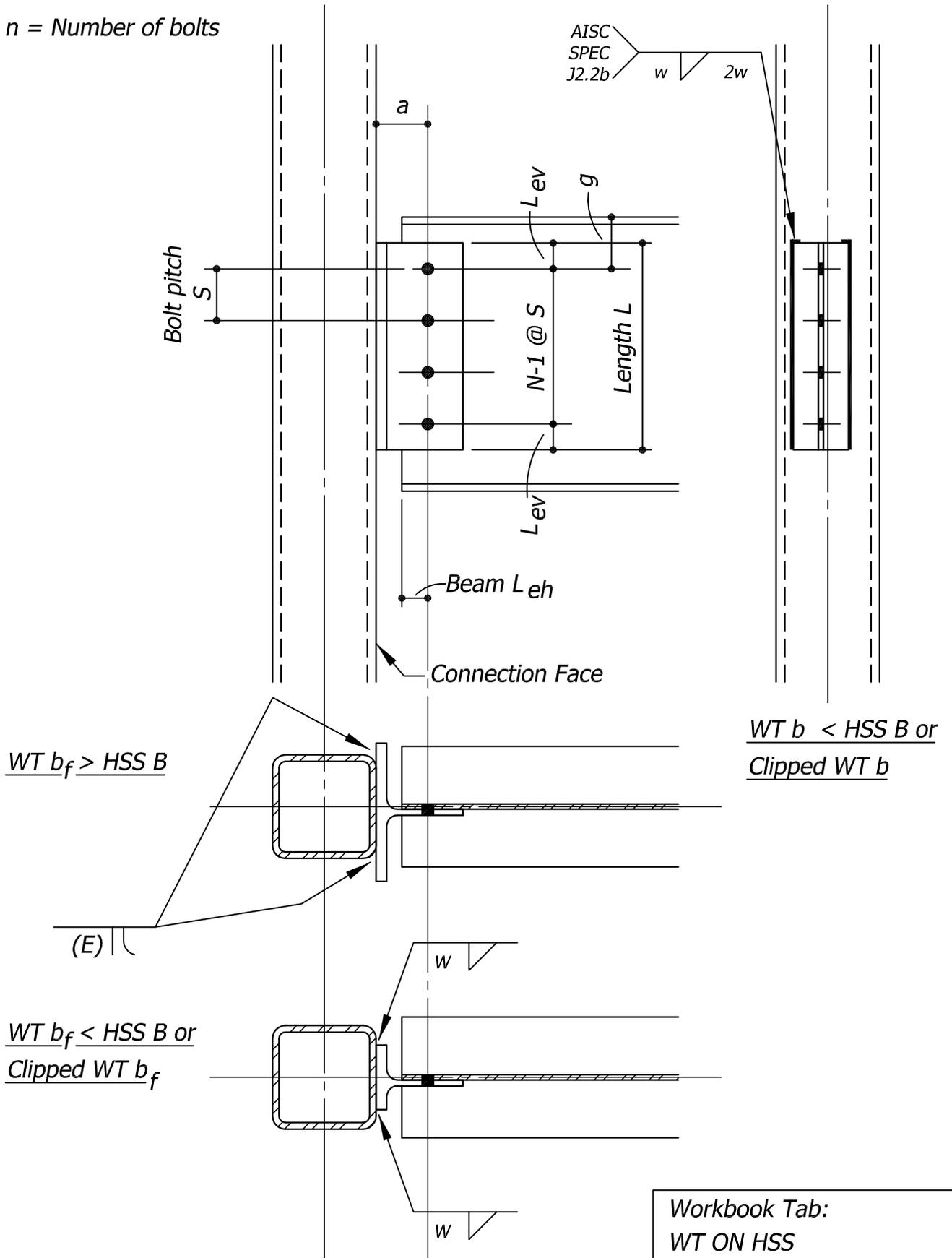


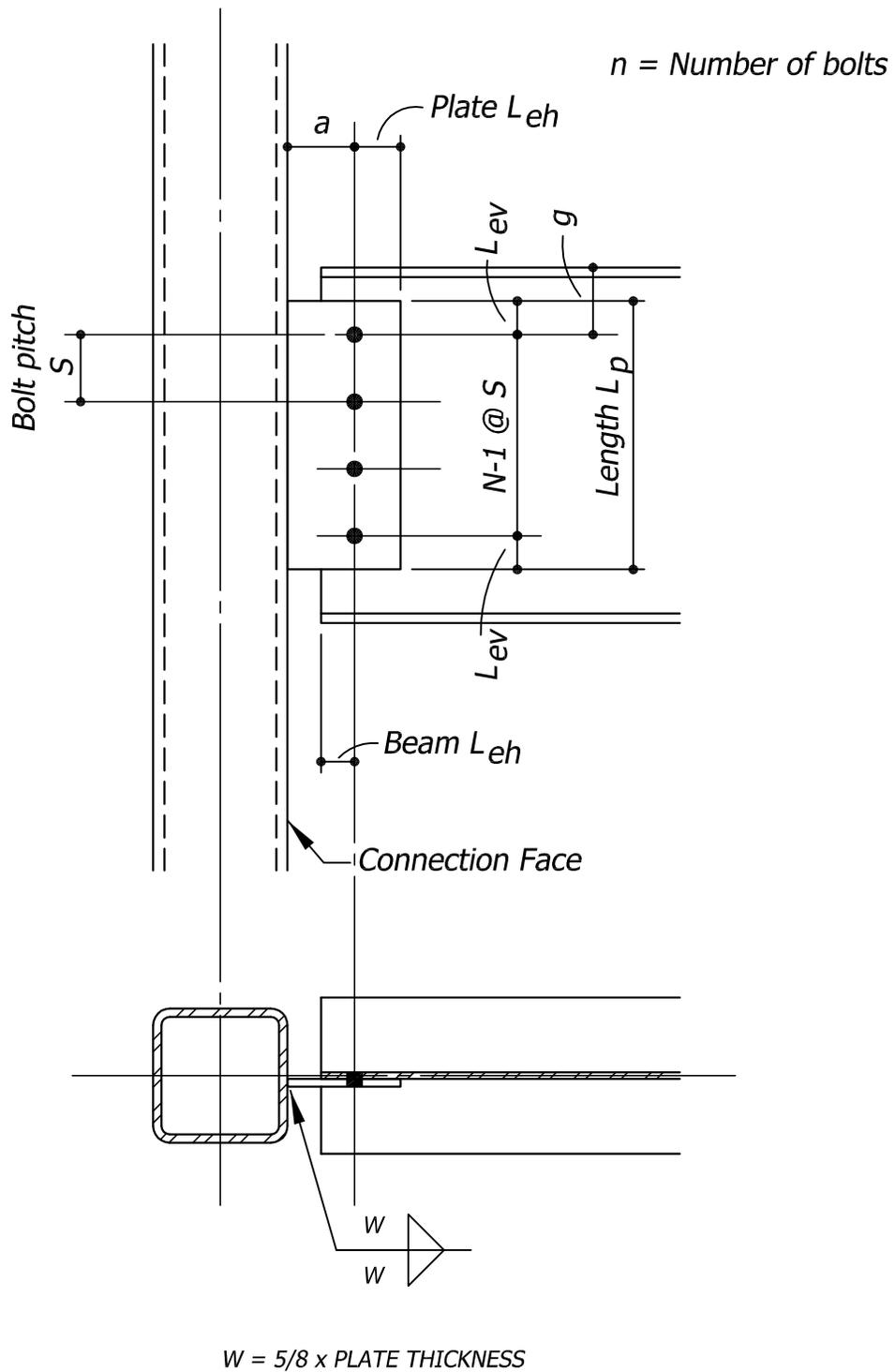
# BEAM TO HSS WITH TEE SECTION

$n = \text{Number of bolts}$



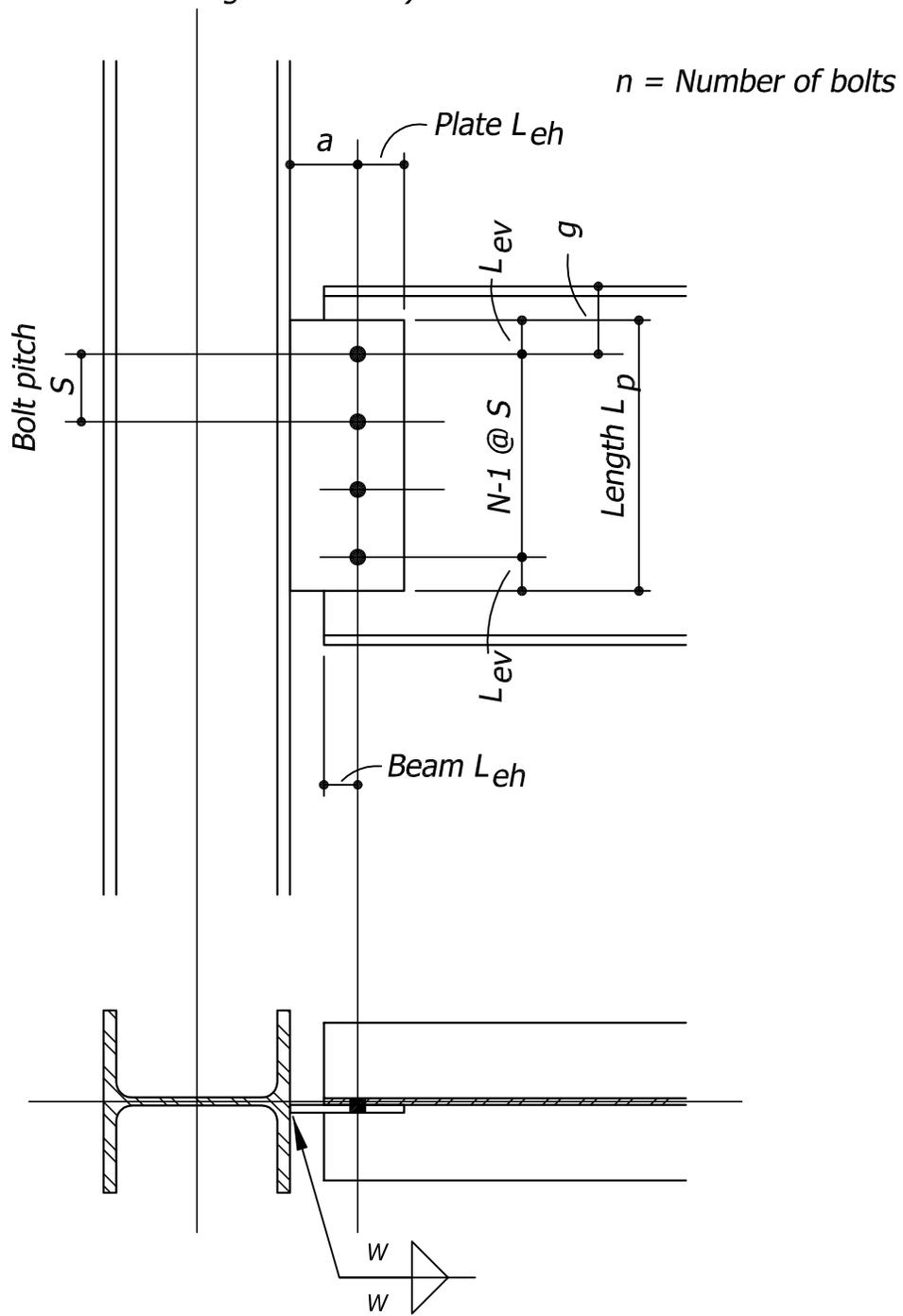
HSS-TEE.DWG

# BEAM TO HSS WITH SINGLE PLATE SHEAR CONNECTION



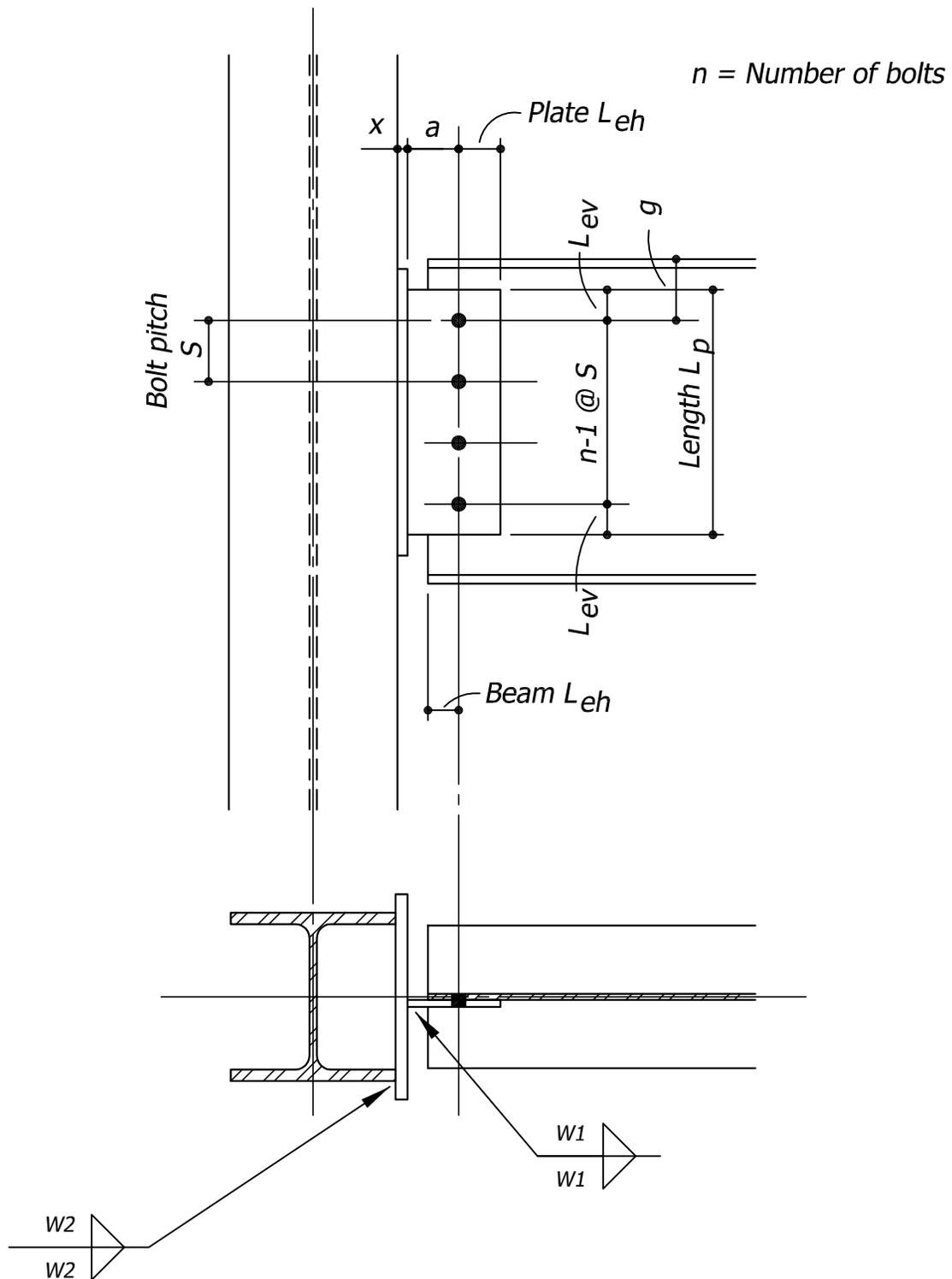
# BEAM TO WF WITH SINGLE PLATE SHEAR CONNECTION

(2016 Conventional SPSC Design Procedure)



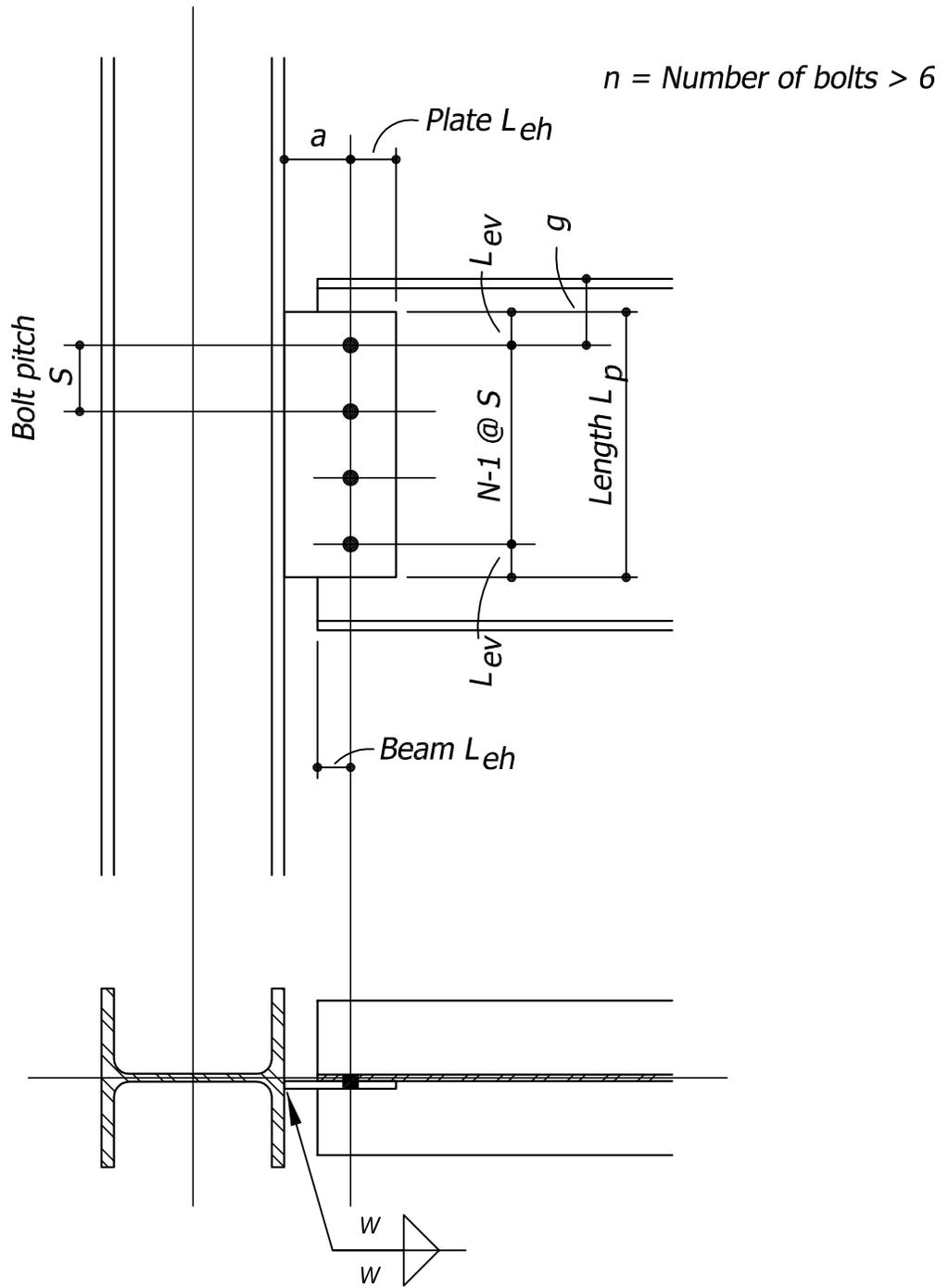
$$W = 5/8 \times \text{PLATE THICKNESS}$$

# ISC BEAM TO WF W/ SINGLE PLATE SHEAR CONN.



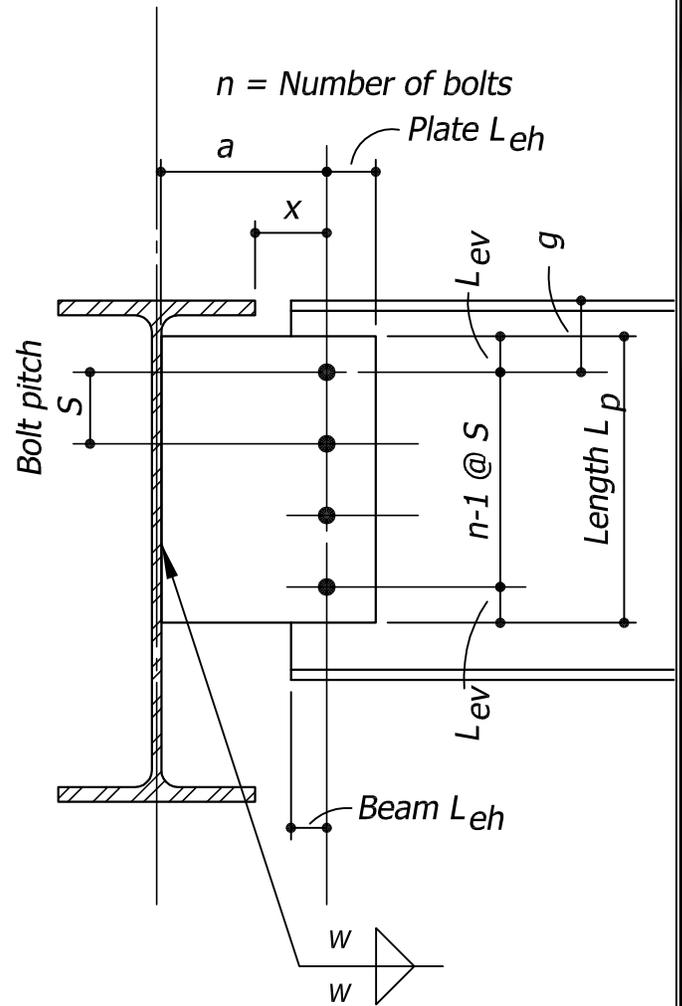
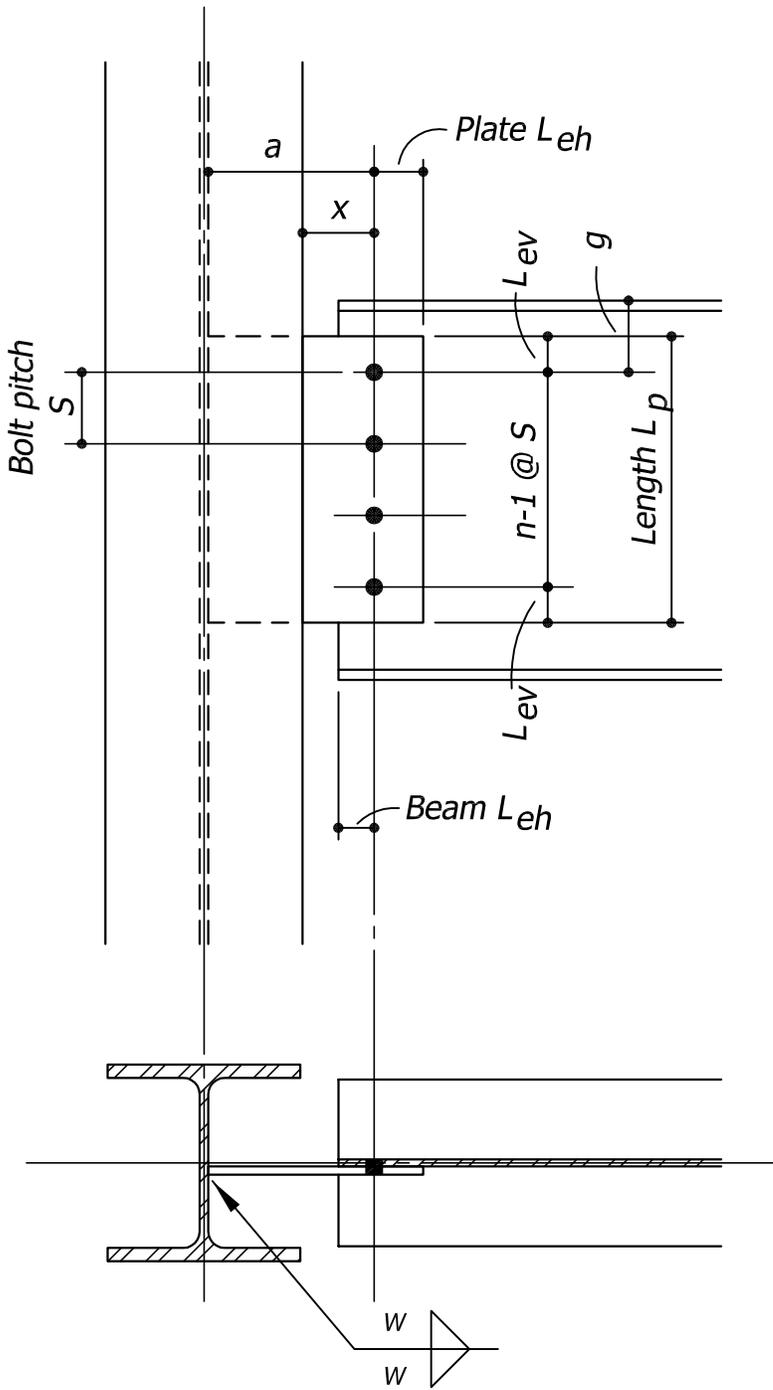
Workbook Tab:  
ISC SINGLE PLATE

# BEAM TO WF WITH SINGLE PLATE SHEAR CONNECTION



$W = 5/8 \times \text{PLATE THICKNESS}$

# BEAM TO WF W/ EXTENDED SINGLE PLATE SHEAR CONN.



SUPPORTING MEMBER IS COLUMN

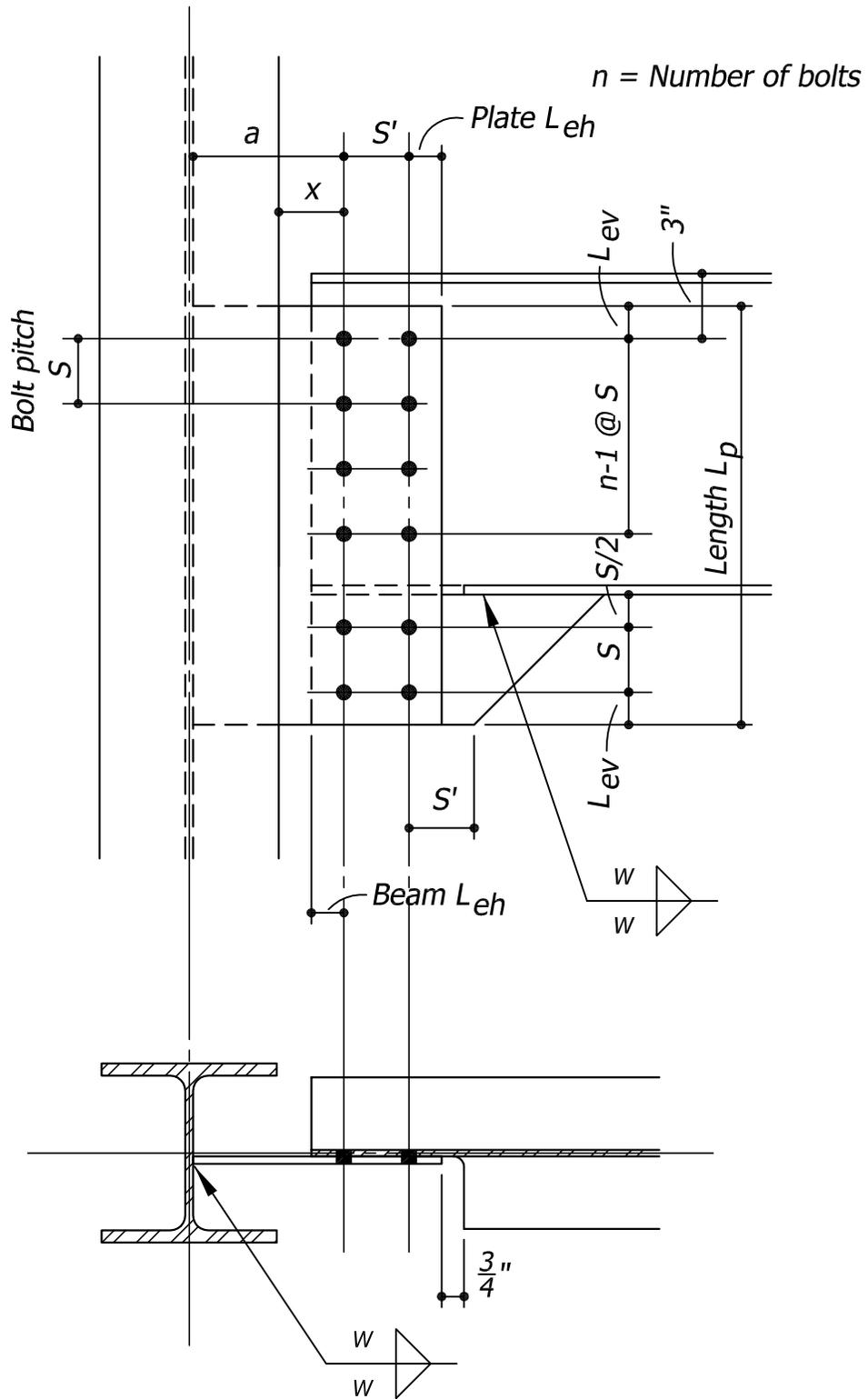
SUPPORTING MEMBER IS BEAM

$W = 5/8 \times \text{PLATE THICKNESS}$

W-EX-SHEAR-TAB-COLWB.DWG

Workbook Tab:  
EXTENDED SINGLE PLATE

# BEAM TO WF W/ EXTENDED SINGLE PLATE SHEAR CONN.



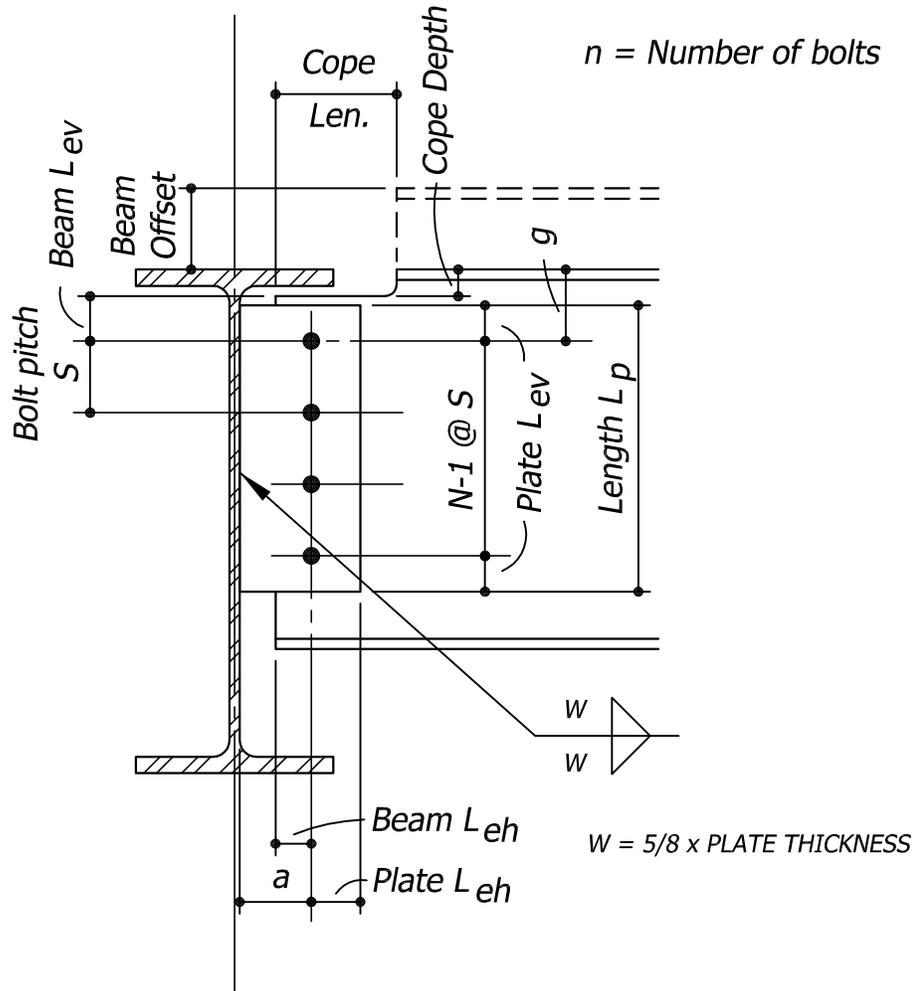
## BEAM WEB EXTENSION

$W = \frac{5}{8} \times \text{PLATE THICKNESS}$

Workbook Tab:  
EXTENDED SINGLE PLATE

# BEAM TO GIRDER WEB WITH SINGLE PLATE SHEAR CONNECTION

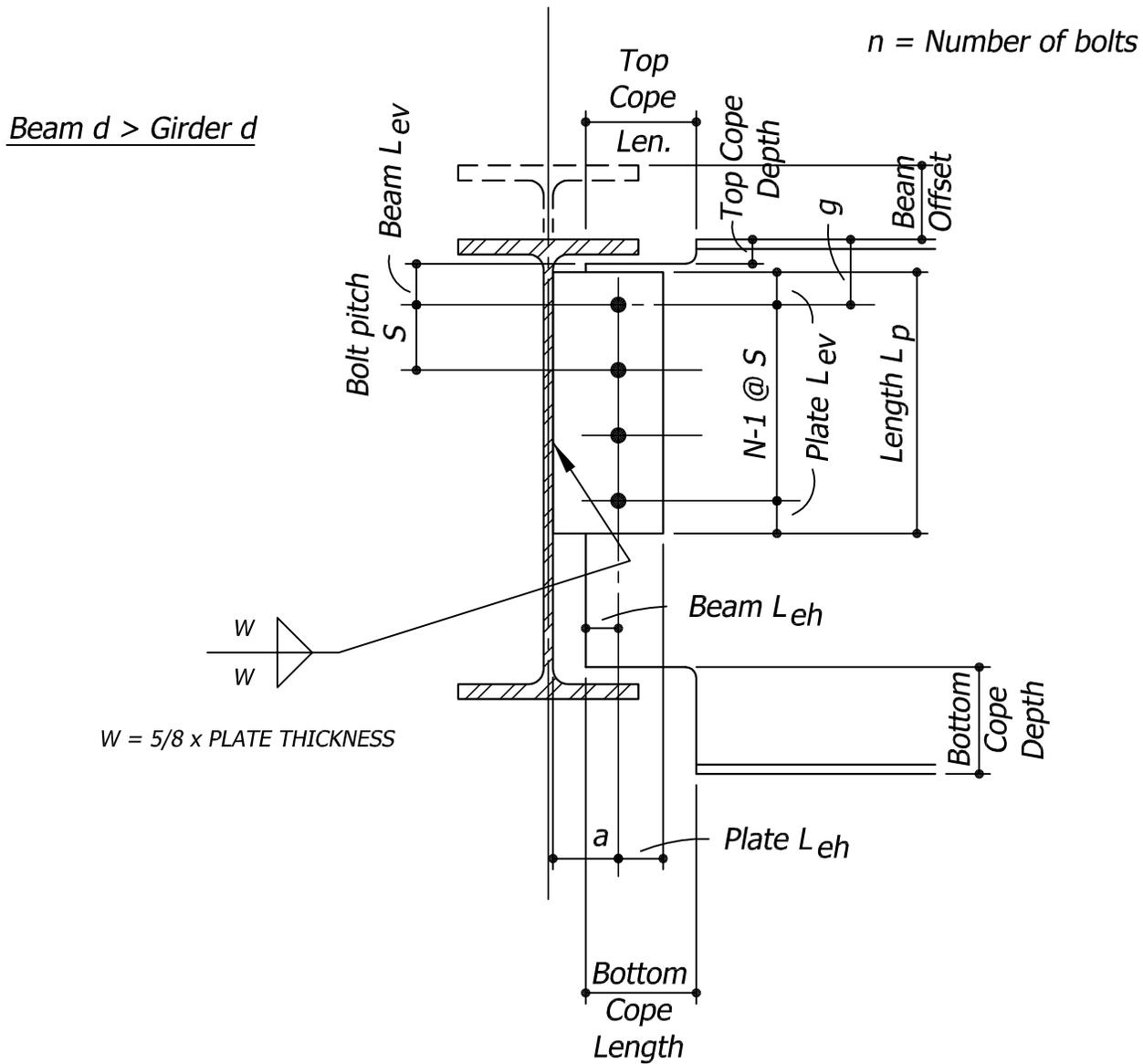
Beam  $d <$  Girder  $d$



GIRDER-SHEAR-TAB-DWG

Workbook Tab:  
SINGLE PLATE to GIRDER WEB

# DEEP BEAM TO GIRDER WEB WITH SINGLE PLATE SHEAR CONNECTION



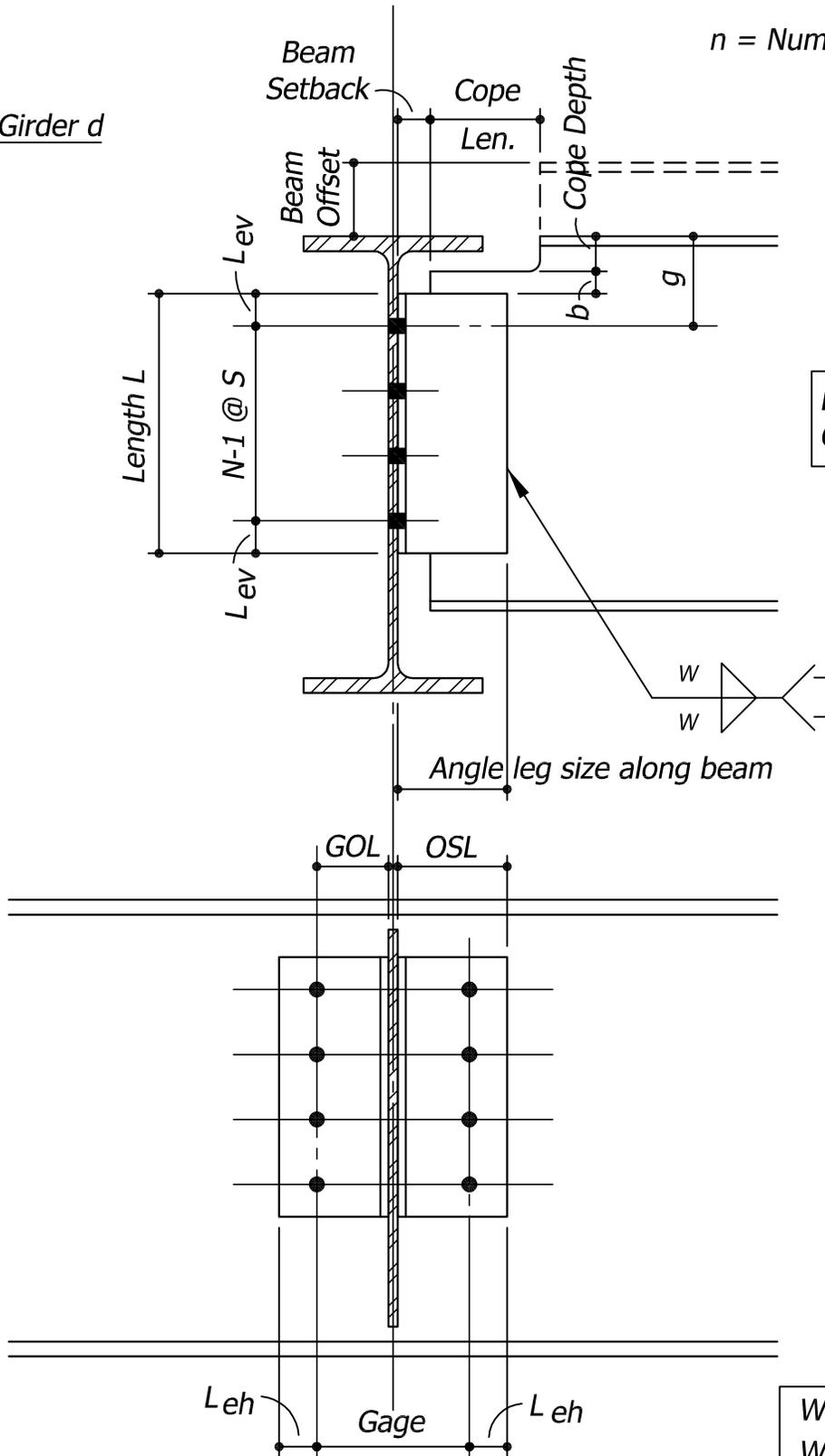
GIRDER-SHEAR-TAB1.DWG

Workbook Tab:  
SINGLE PLATE to GIRDER WEB (D)

# DOUBLE ANGLE WELDED TO BEAM, BOLTED TO SUPPORTING MEMBER SUPPORTING MEMBER IS GIRDER

Beam  $d <$  Girder  $d$

$n =$  Number of rows of bolts

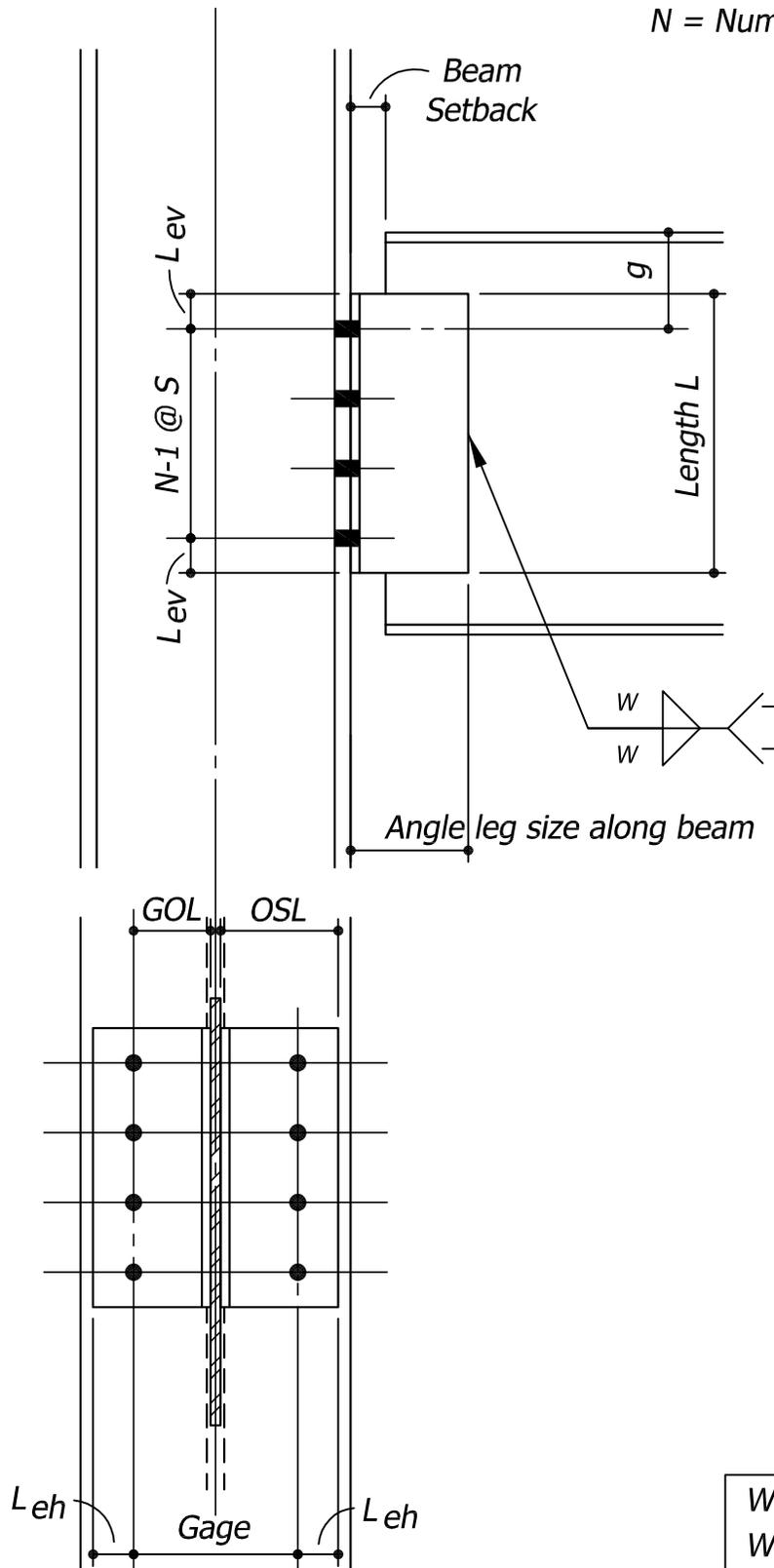


2A-WELD-BOLT-B.DWG

Workbook Tab:  
WEB WELD-BOLT to WF

# DOUBLE ANGLE WELDED TO BEAM, BOLTED TO SUPPORTING MEMBER SUPPORTING MEMBER IS COLUMN FLANGE

$N = \text{Number of rows of bolts}$



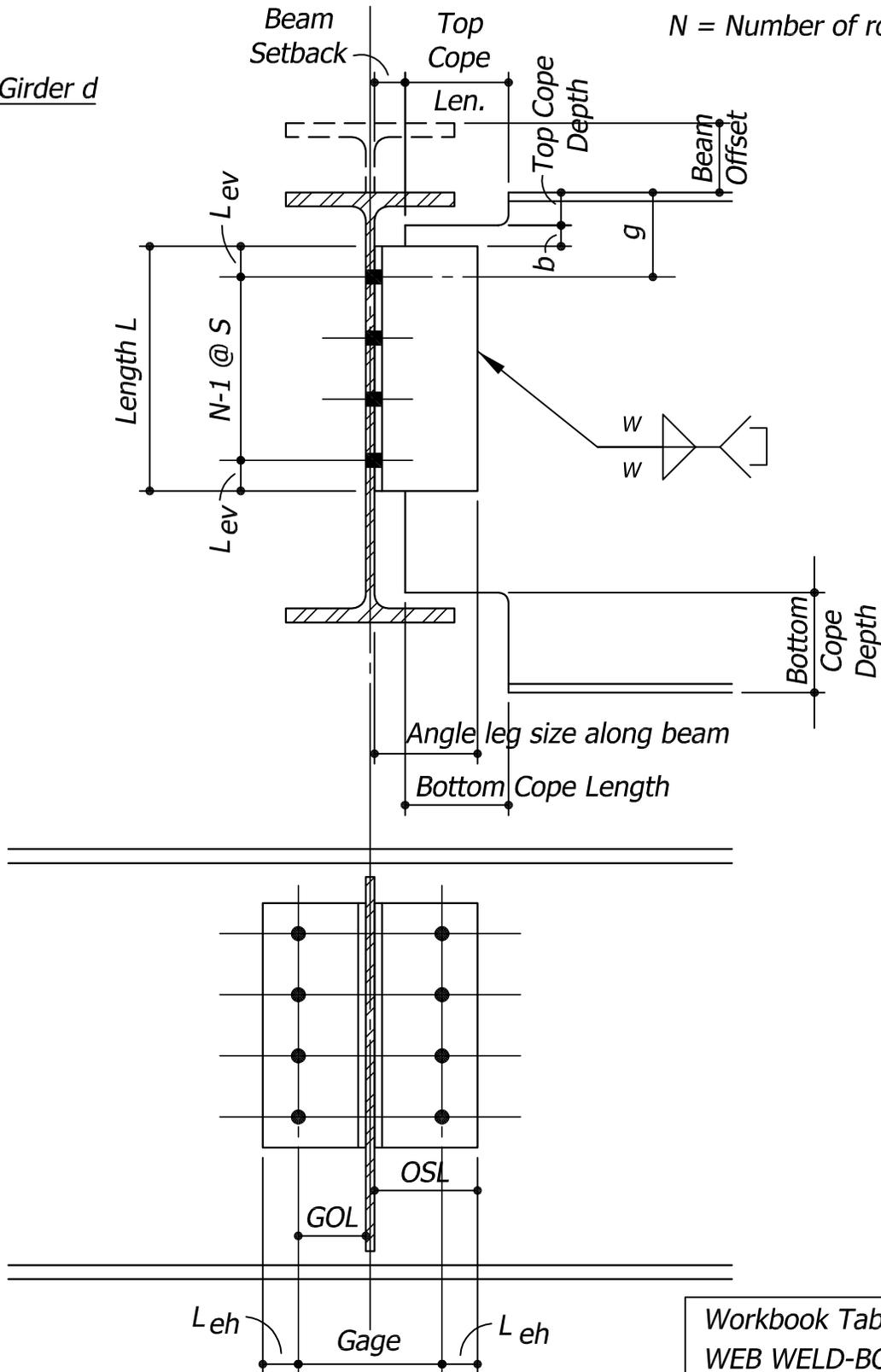
2A-WELD-BOLT-CF.DWG

Workbook Tab:  
WEB WELD-BOLT to WF

# DOUBLE ANGLE WELDED TO DEEP BEAM, BOLTED TO SUPPORTING MEMBER SUPPORTING MEMBER IS GIRDER

*N = Number of rows of bolts*

*Beam d > Girder d*

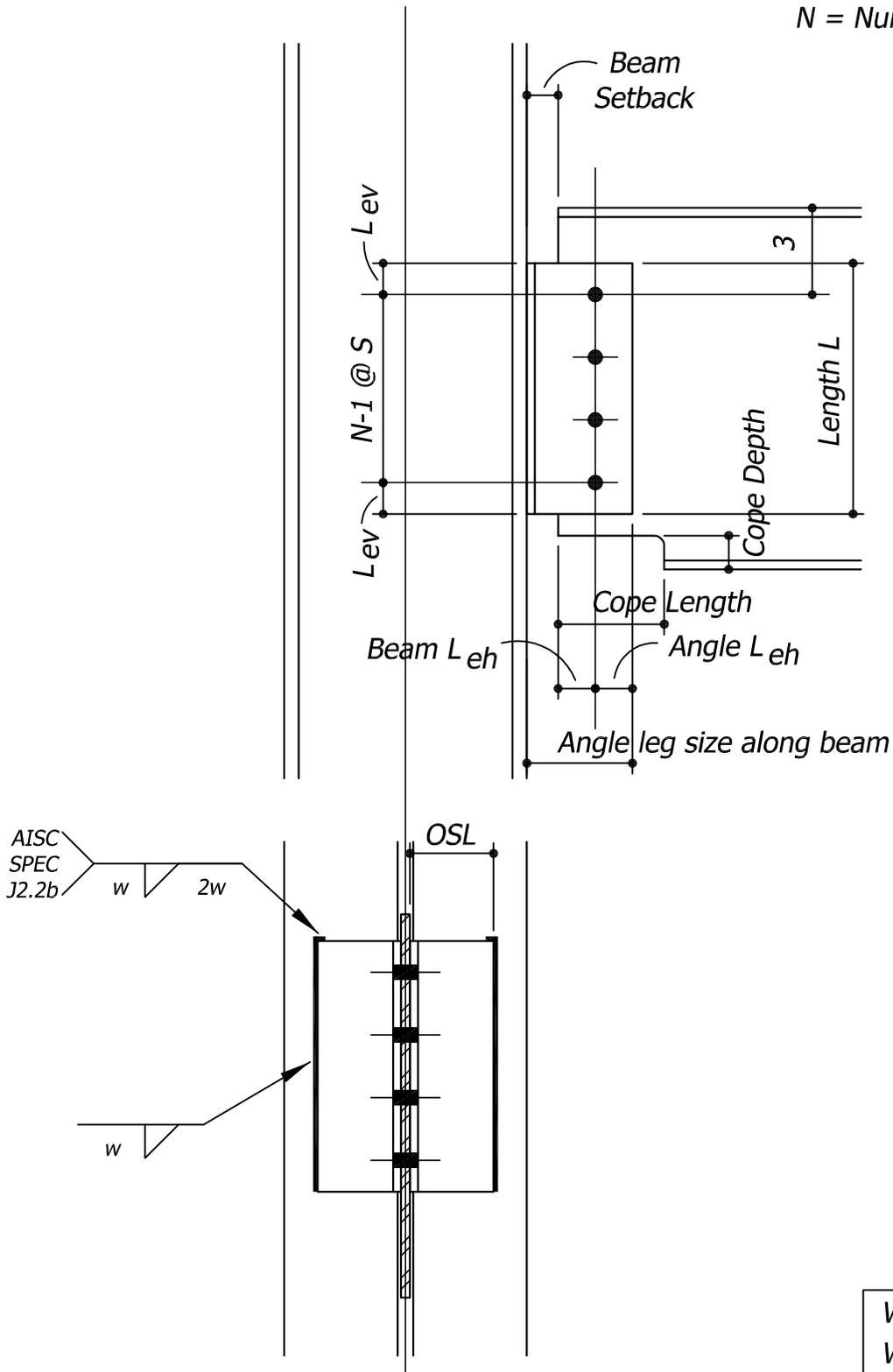


Workbook Tab:  
WEB WELD-BOLT to WF (D)

2A-WELD-BOLT-B1.DWG

# DOUBLE ANGLE BOLTED TO BEAM, WELDED TO COLUMN FLANGE

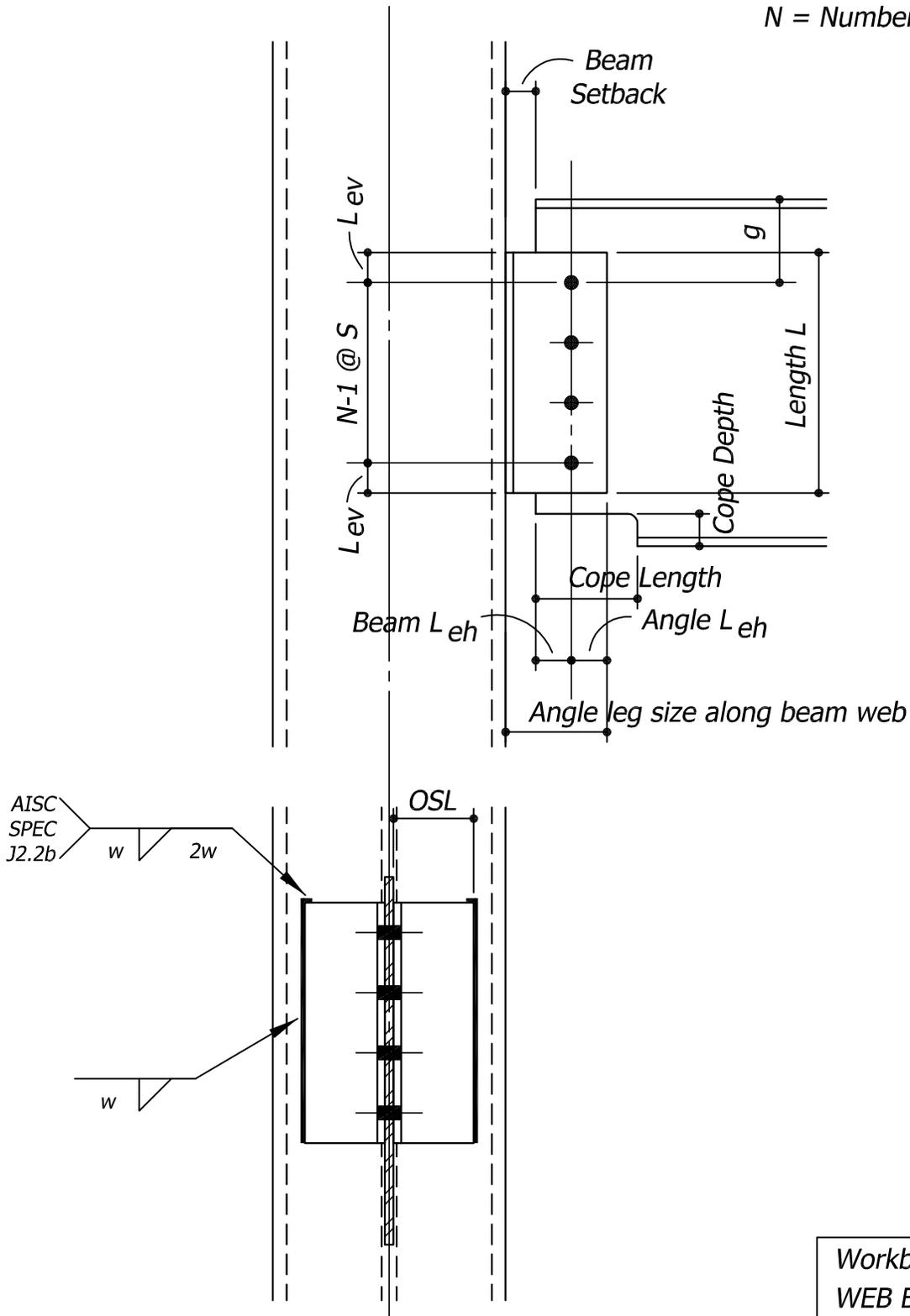
$N = \text{Number of rows of bolts}$



2A-BOLT-WELD-CF.DWG

# DOUBLE ANGLE BOLTED TO BEAM, WELDED TO HSS COLUMN

$N = \text{Number of rows of bolts}$



Workbook Tab:  
WEB BOLT-WELD to HSS

2A-BOLT-WELD-HSS.DWG