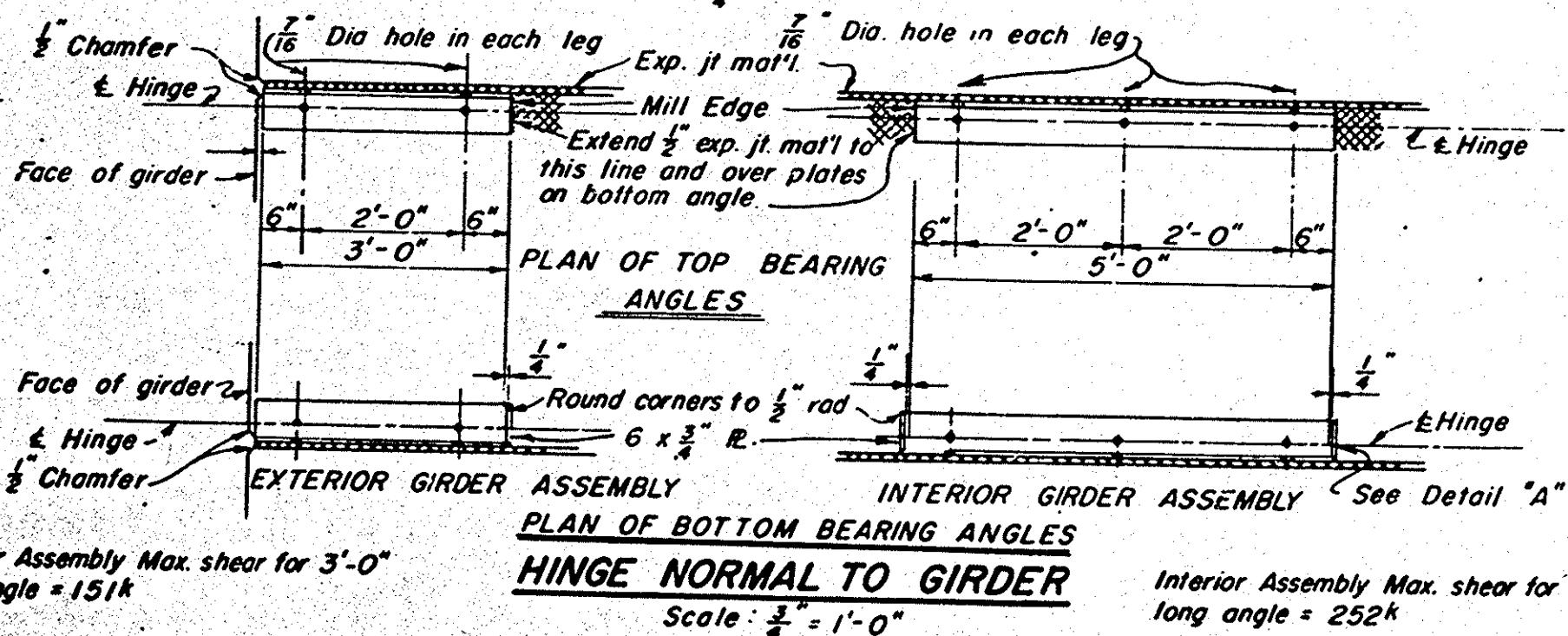
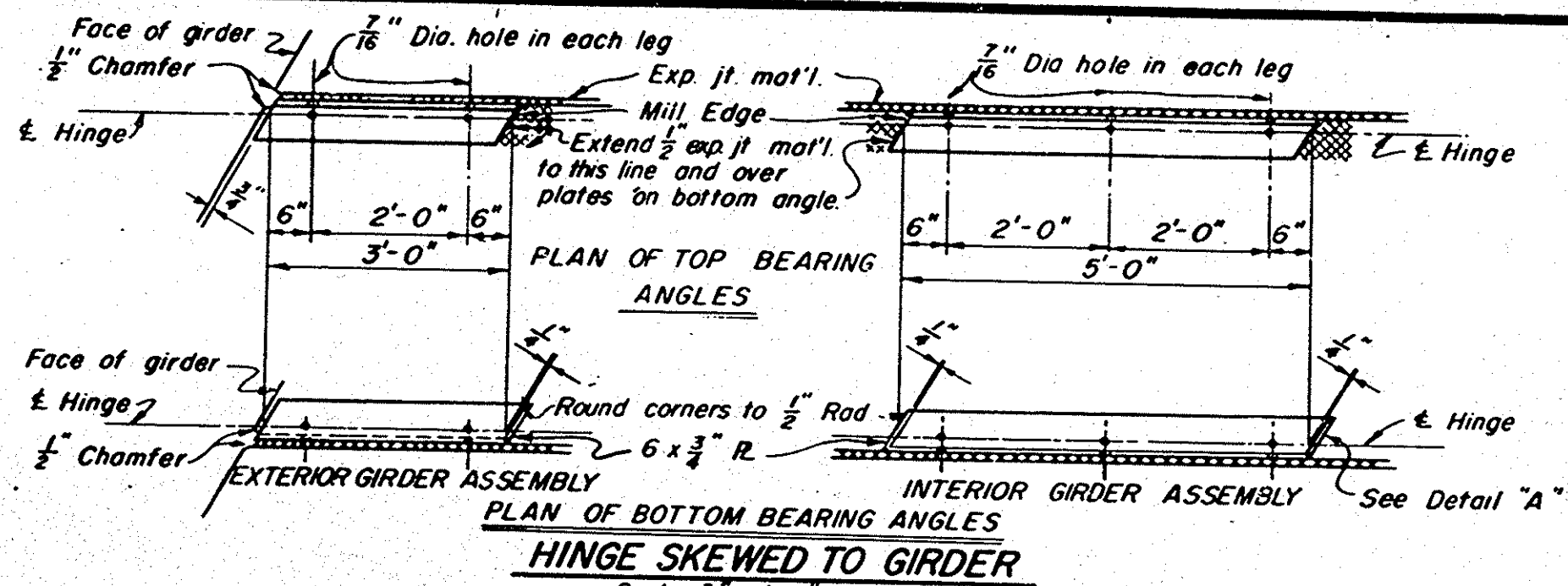
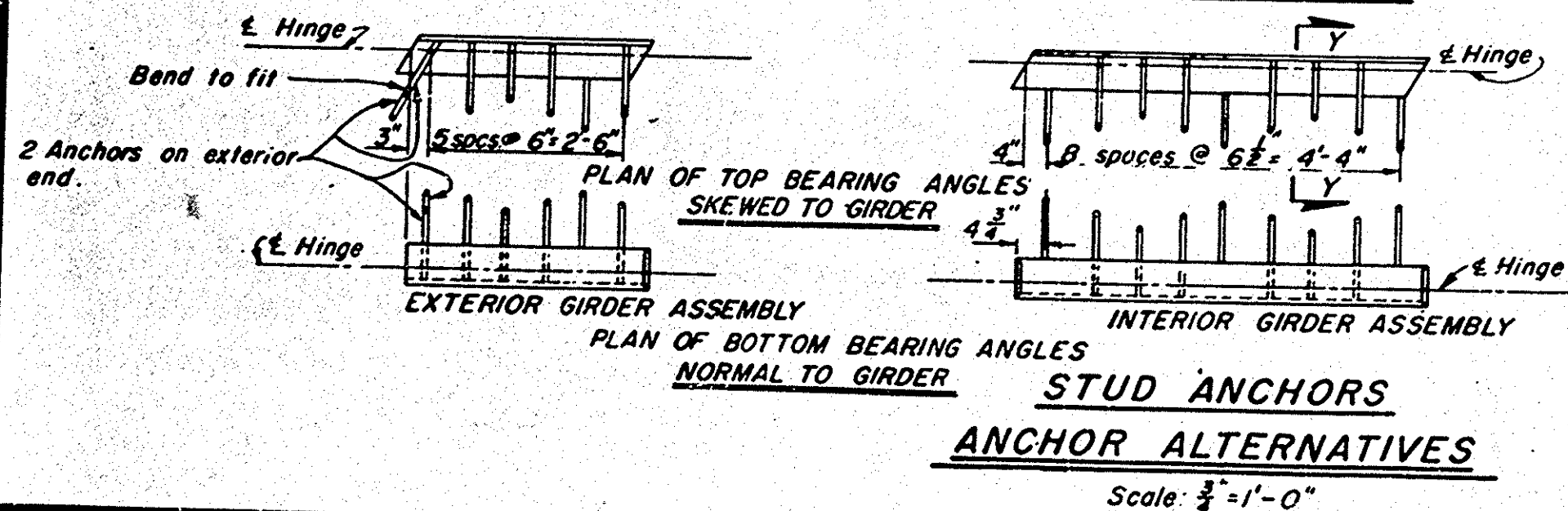
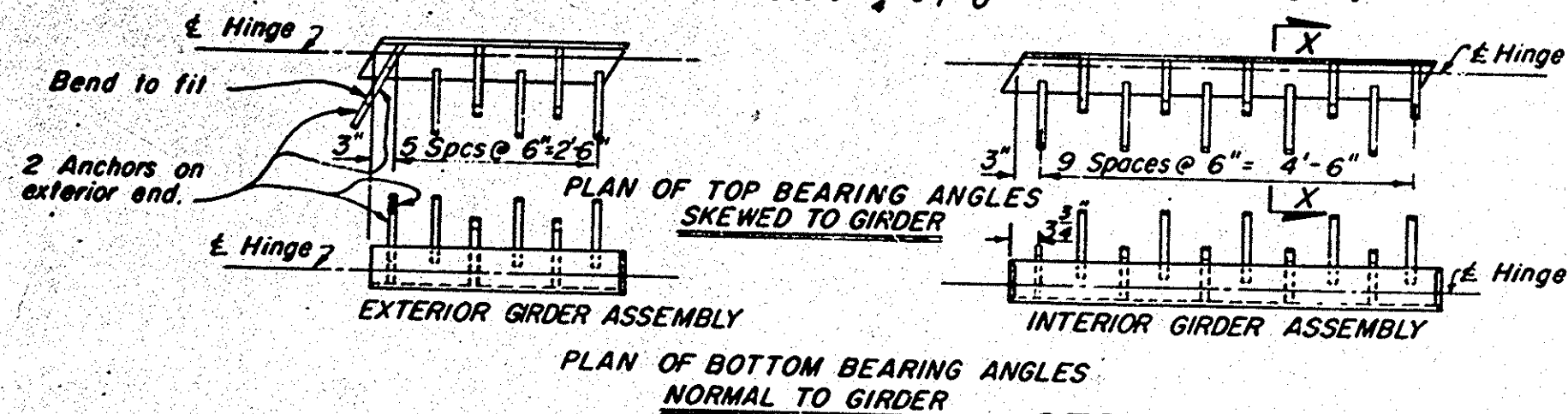




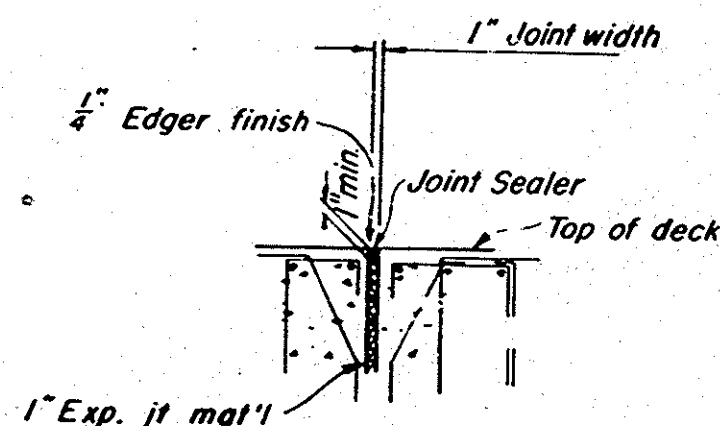
Exterior Assembly Max. shear for 3'-0" long angle = 151k

Interior Assembly Max. shear for 5'-0" long angle = 252k

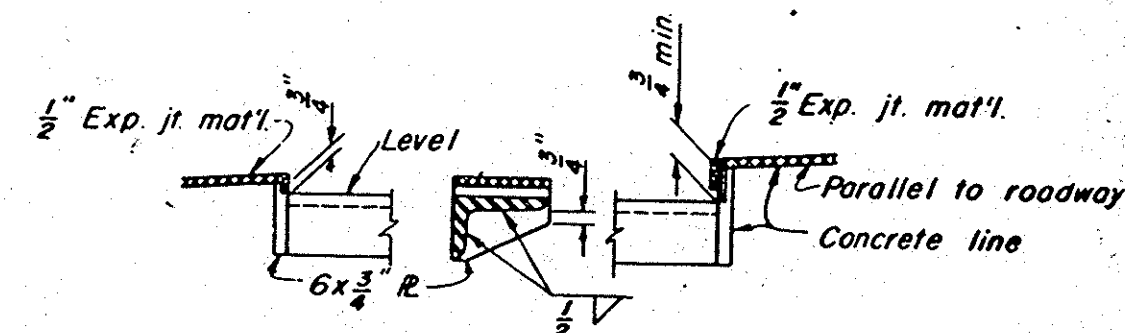


Scale: 3/4" = 1'-0"

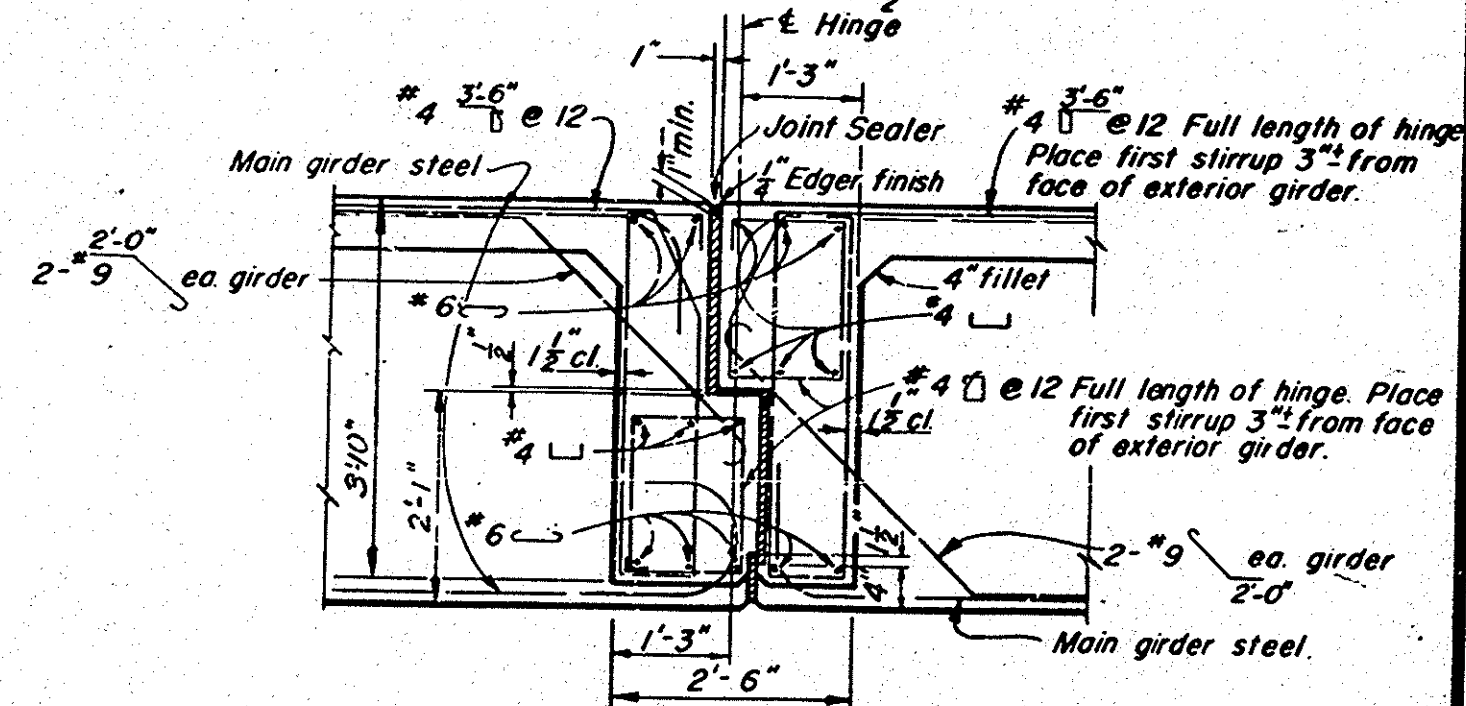
To provide for free movement of the completed hinge, abutting surfaces of steel and concrete are to be separated with expansion material. Caulk and tape the joints between steel angles and all remaining openings to prevent grout or concrete seepage between abutting surfaces of hinge.



DETAILS

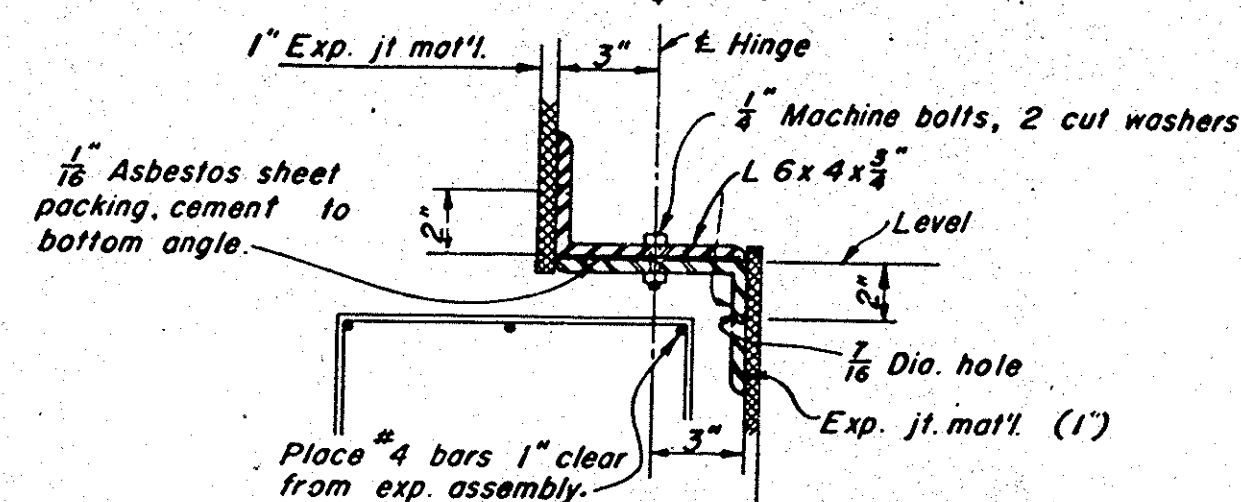


DETAIL "A"
Scale: 1 1/2" = 1'-0"



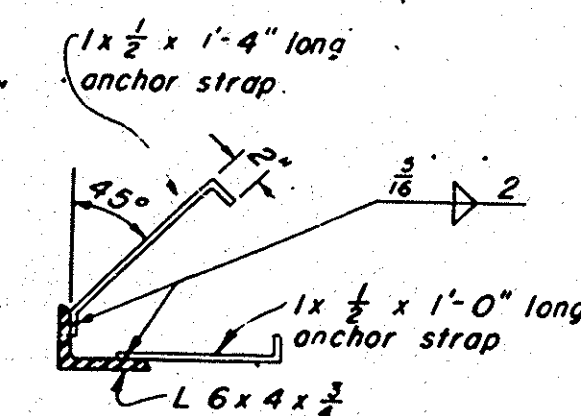
TYPICAL EXPANSION HINGE

Scale: 3/4" = 1'-0"



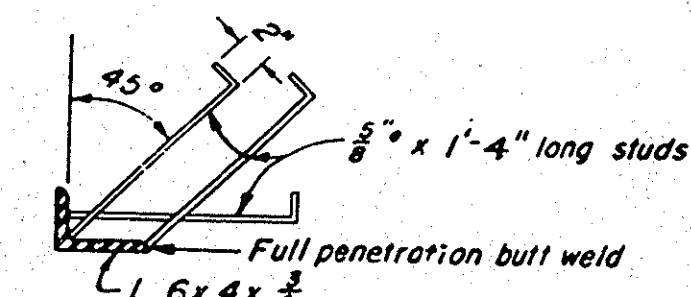
SECTION THRU EXPANSION ASSEMBLY

Scale: 3" = 1'-0"



SECTION X-X

Scale: 1 1/2" = 1'-0"



SECTION Y-Y

Scale: 1 1/2" = 1'-0"

Galvanize hinge assembly after fabrication

NOTE: ALL REQUIRED HINGE ASSEMBLIES ARE NORMAL TO GIRDER

TOTAL: 8 EXTERIOR ASSEMBLIES 8 INTERIOR ASSEMBLIES

AS BUILT

ORANGE COUNTY HIGHWAY DEPARTMENT	
DOWLING AVENUE BRIDGE	
ACROSS	
SANTA ANA RIVER	
HINGE DETAILS	
SCALE AS NOTED	SHEET 9 OF 17