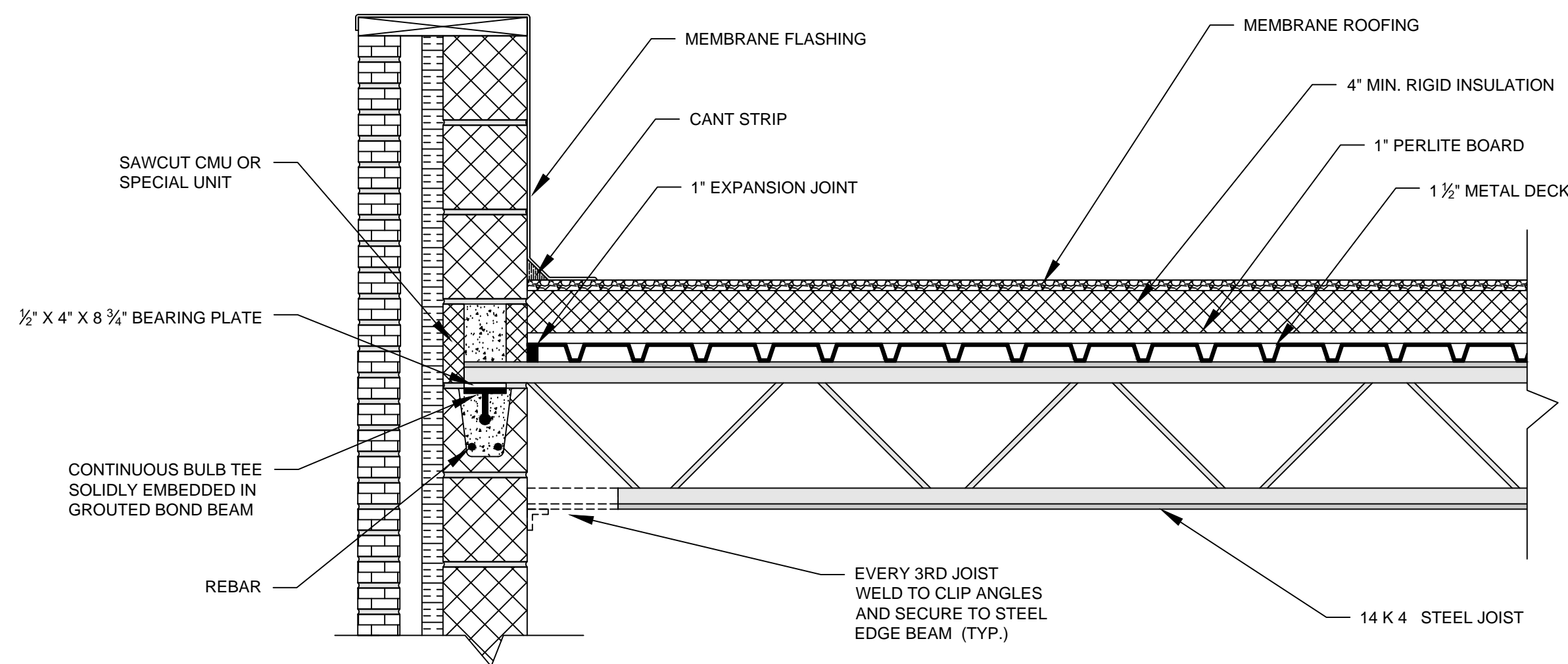


**A** DETAIL  
SCALE 1"=1'



**B** DETAIL  
SCALE 1"=1'

JOIST SCHEDULE						
MARK	QTY.	TYPE	OVERALL LENGTH	MFG.	WEIGHT	REMARKS
131	24	14 K 4	19' 11 1/2"	VULCRAFT	97 LBS	
231	6	14 K 4	19' 11"	VULCRAFT	95 LBS	
331	4	8 K 1	9' 7"	VULCRAFT	48 LBS	
431	2	8 K 1	10' 3"	VULCRAFT	52 LBS	
531	8	8 K 1	5' 8"	VULCRAFT	28 LBS	
631	3	8 K 1	7' 11"	VULCRAFT	40 LBS	
731	4	14 K 4	19' 11 1/2"	VULCRAFT	97 LBS	

NOTE: TWO 731 JOISTS ARE WELDED TOGETHER TO MAKE ONE GIRDER

**USAGE:**

THESE SPECIFICATIONS SHALL APPLY TO ANY TYPE OF STRUCTURE WHERE FLOORS AND ROOFS ARE TO BE SUPPORTED DIRECTLY BY STEEL JOISTS INSTALLED AS HEREINAFTER SPECIFIED. WHERE JOISTS ARE USED OTHER THAN ON SIMPLE SPANS UNDER UNIFORMLY DISTRIBUTED LOADING AS PRESCRIBED IN SECTION 4.1 THEY SHALL BE INVESTIGATED AND MODIFIED IF NECESSARY TO LIMIT THE UNIT STRESSES TO THOSE LISTED IN SECTION 4.2.

**MASONRY AND CONCRETE**

K-SERIES JOISTS SUPPORTED BY MASONRY OR CONCRETE ARE TO BEAR ON STEEL BEARING PLATES AND SHALL BE DESIGNED AS STEEL BEARING. DUE CONSIDERATION OF THE END REACTIONS AND ALL OTHER VERTICAL OR LATERAL FORCES SHALL BE TAKEN BY THE SPECIFYING PROFESSIONAL IN THE DESIGN OF THE STEEL BEARING PLATE AND MASONRY CONCRETE.

FILL CELLS OF CMU SOLID WITH GROUT OR MORTAR DIRECTLY BELOW BOND BEAM.

**STEEL**

DUE CONSIDERATION OF THE END REACTIONS AND ALL OTHER VERTICAL AND LATERAL FORCES SHALL BE TAKEN BY THE SPECIFYING PROFESSIONAL IN THE DESIGN OF THE STEEL SUPPORT. THE ENDS OF K-SERIES JOISTS SHALL EXTEND A DISTANCE OF NOT LESS THAN 1 1/2 INCHES (64 MM) OVER THE STEEL SUPPORTS.

**HORIZONTAL BRIDGING**

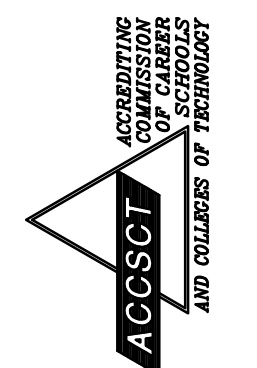
HORIZONTAL BRIDGING SHALL CONSIST OF TWO CONTINUOUS HORIZONTAL STEEL MEMBERS, ONE ATTACHED TO THE TOP CHORD AND THE OTHER ATTACHED TO THE BOTTOM CHORD. EACH ATTACHMENT SHALL BE MADE BY WELDING OR MECHANICAL MEANS AND SHALL BE CAPABLE OF RESISTING A HORIZONTAL FORCE OF NOT LESS THAN 700 POUNDS (3114 N).

WELD OR BOLT BRIDGING TO CLIP ANGLES SECURED TO MASONRY WALL OR STEEL EDGE BEAM.

REVISIONS

PROJECT NAME  
SMALL COMMERCIAL BUILDING  
DRAWING NAME  
ROOF O.W.S.J. CROSS SECTIONS

PROJECT NAME



PORTER AND CHESTER INSTITUTE  
138 WENMOUTH ROAD  
ENFIELD, CT 06082  
1-(203)-741-2561



DRAWN PJS  
DATE 26JAN12  
SCALE AS NOTED  
CHECKED  
PROJ. NO. 216-12  
DRAWING NO.

5-9