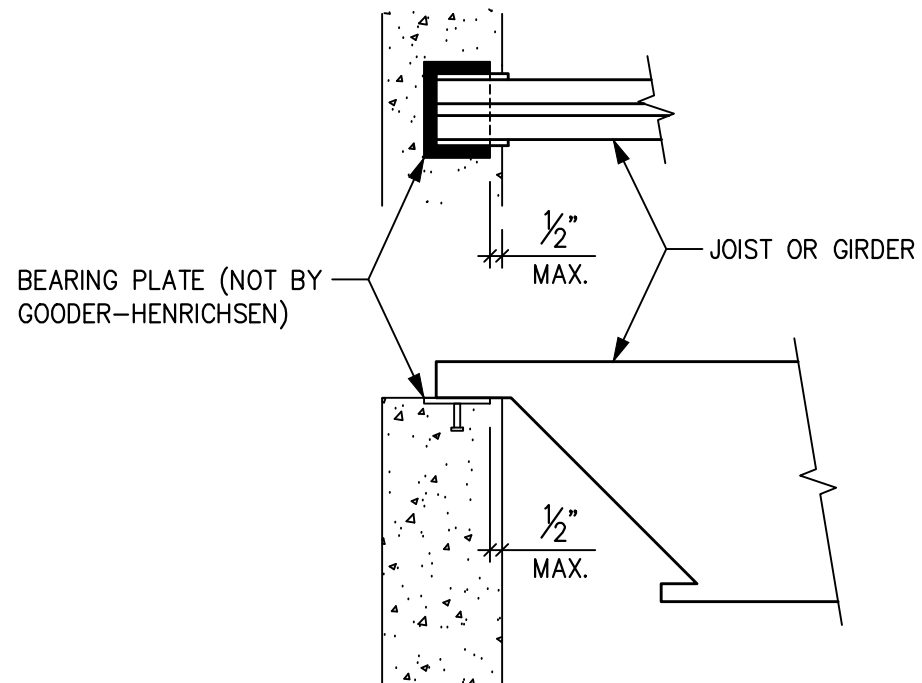


## **Gooder-Henrichsen Typical Details**

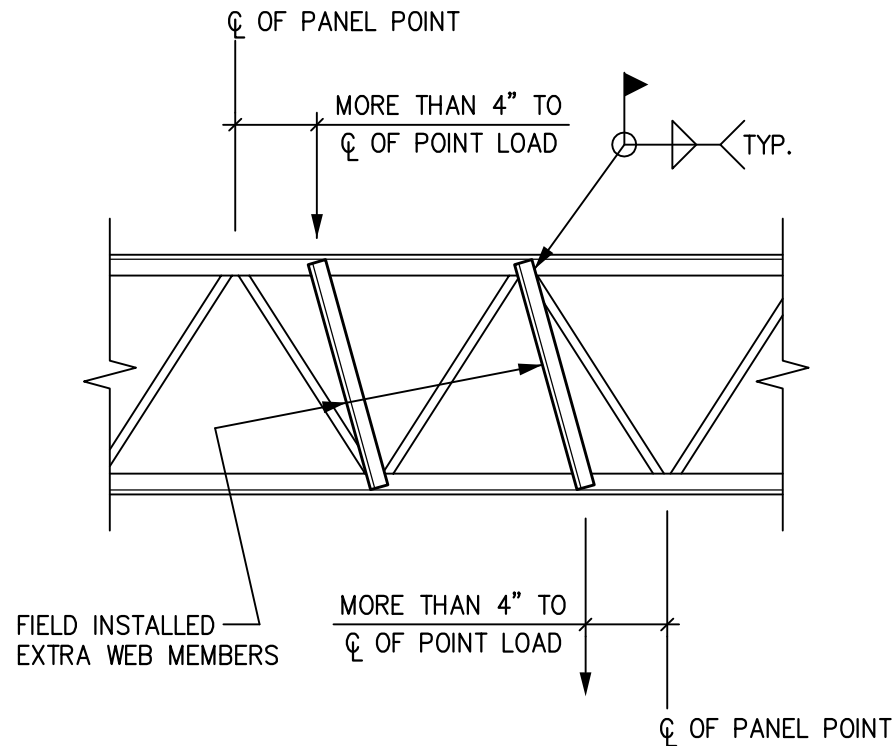
The details on the following pages are the typical details for the most common conditions. They are provided as a general reference only. They do not cover every possible condition. Some of these details may not apply to your job.

Note: When Gooder-Henrichsen details a job, the work is done by experienced detailers who address all special and job-specific conditions. If you are having someone other than Gooder-Henrichsen detail your job, you are responsible for making sure that all conditions on your job are addressed. If you do not have the capacity to do this, we recommend that you have Gooder-Henrichsen detail your job for you. Detailing by Gooder-Henrichsen is done at an additional cost and adds additional time to the schedule.

BEARING PLATES IN MASONRY MUST  
BE PLACED SO THAT THE EDGE OF  
THE BEARING PLATE IS NO MORE  
THAN  $\frac{1}{2}$ " FROM THE EDGE OF THE  
MASONRY AT THE SIDE WHERE THE  
JOIST OR GIRDER IS BEARING.

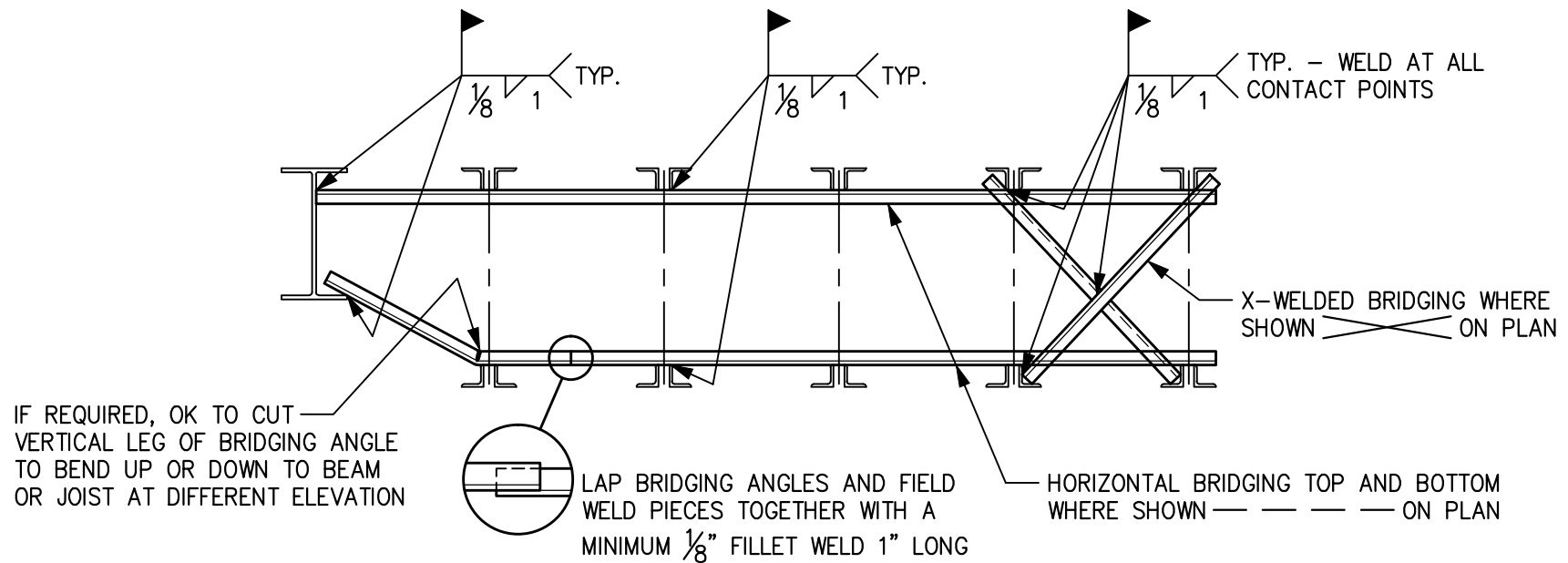
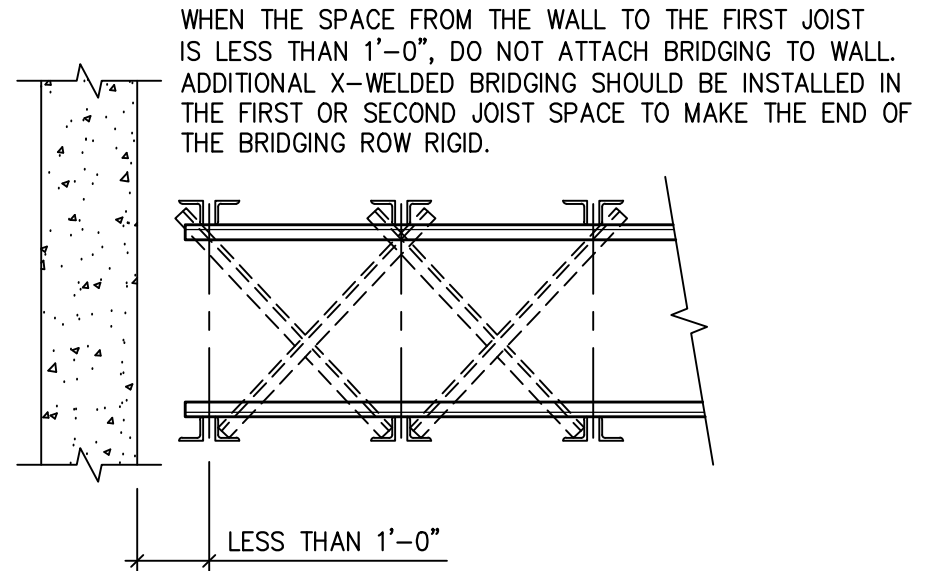
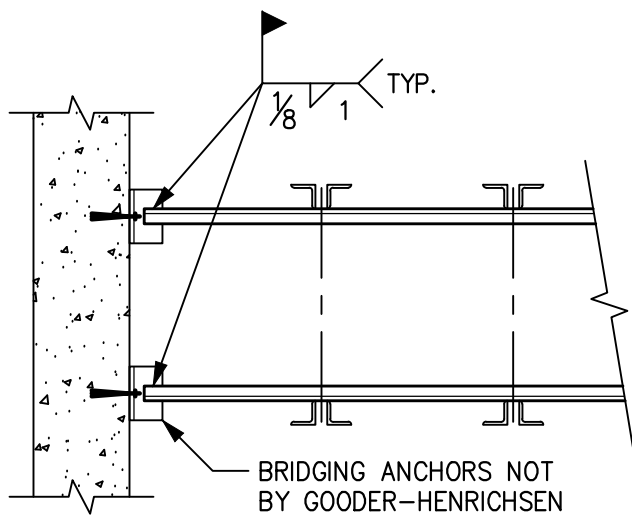


## BEARING PLATE INSTALLATION

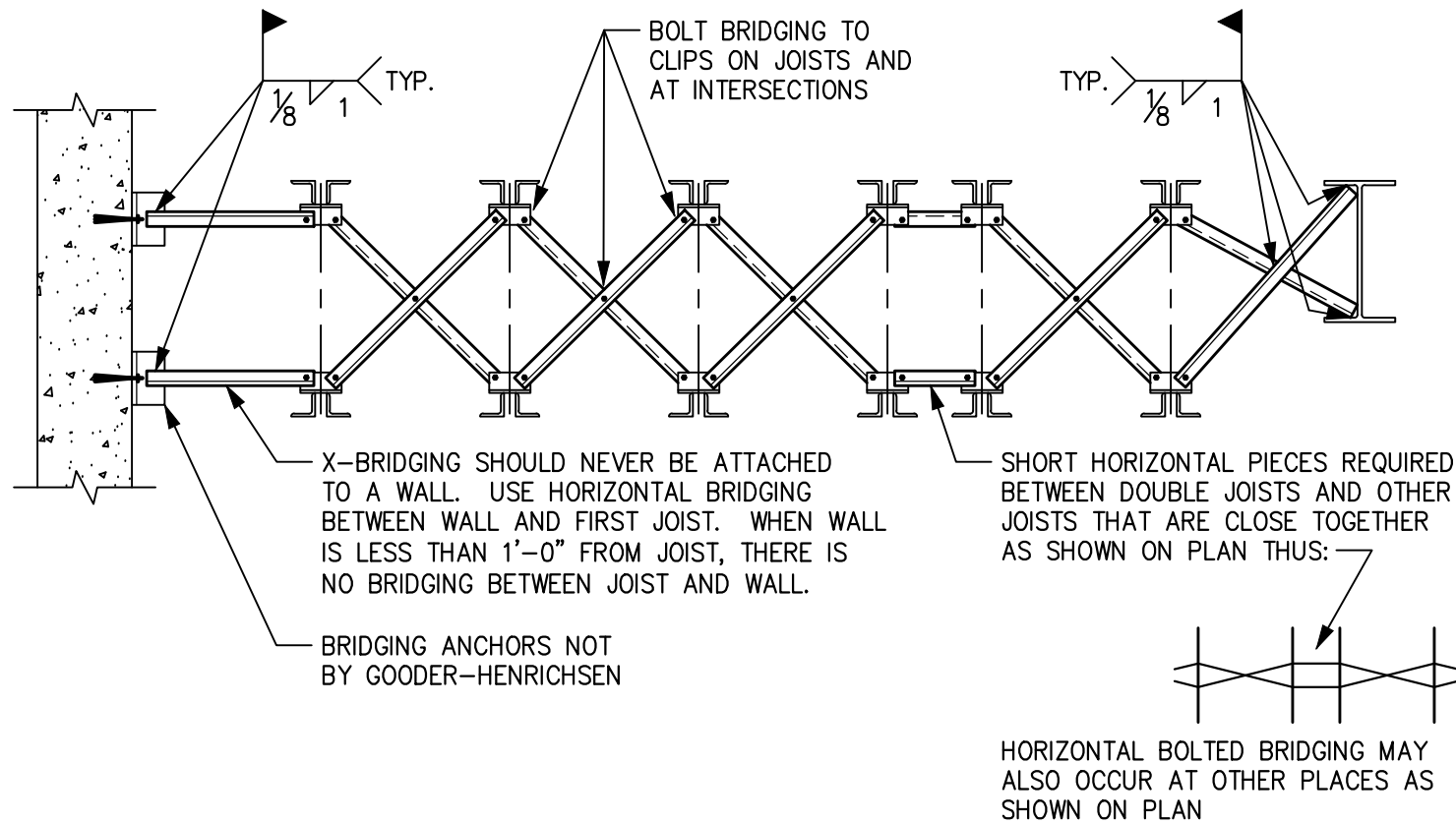


JOIST CHORDS ARE NOT DESIGNED FOR LOCAL BENDING FROM CONCENTRATED LOADS. WHEN A CONCENTRATED LOAD IS LOCATED MORE THAN 4" FROM A PANEL POINT, AN EXTRA WEB MEMBER MUST BE INSTALLED FROM THE LOCATION OF THE CONCENTRATED LOAD TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD. THESE EXTRA WEB MEMBERS ARE NOT SUPPLIED BY GOODER-HENRICHSEN AND ARE TO BE INSTALLED AT NO ADDITIONAL COST TO GOODER-HENRICHSEN. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR SIZING THESE EXTRA WEB MEMBERS AND SPECIFYING THE REQUIRED WELDS.

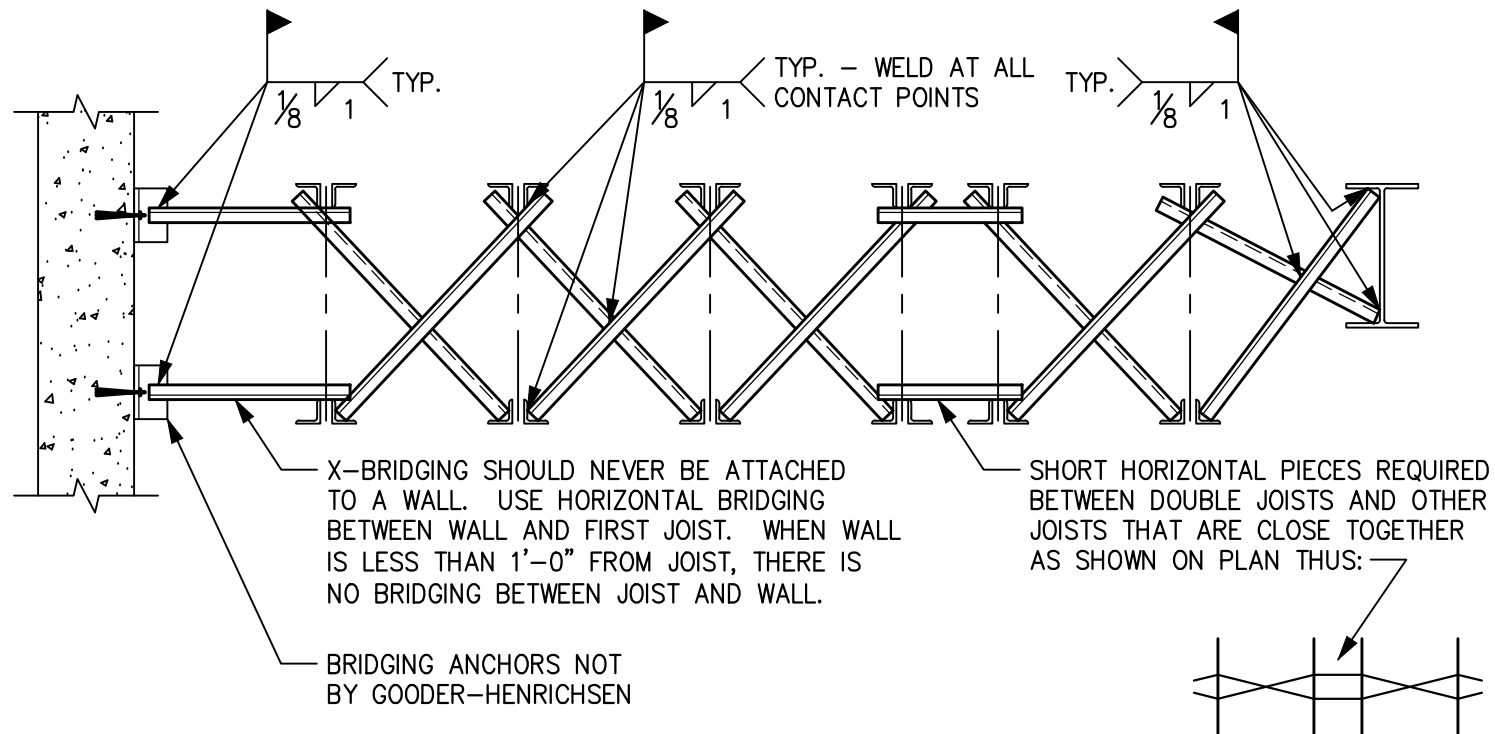
## TYPICAL JOIST REINFORCEMENT AT CONCENTRATED LOADS



## TYPICAL HORIZONTAL BRIDGING WITH ADDED X-WELDED BRIDGING DETAILS



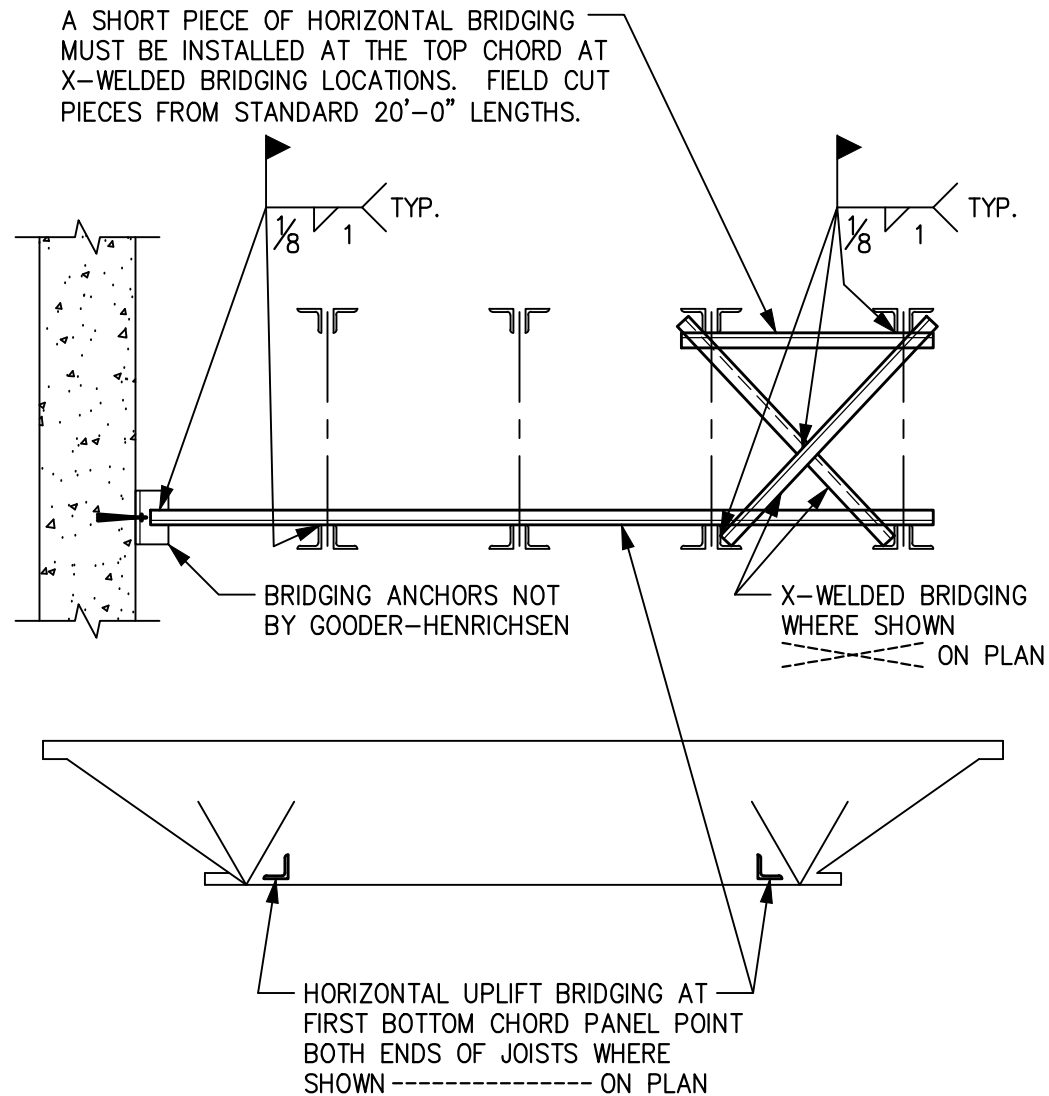
## TYPICAL X-BOLTED BRIDGING DETAILS



NOTE: X-WELDED AND SHORT HORIZONTAL PIECES OF BRIDGING MAY BE SUPPLIED PRECUT TO LENGTH OR MAY NEED TO BE FIELD CUT FROM 20'-0" STICKS AT NO COST TO GOODER-HENRICHSEN.

## TYPICAL X-WELDED BRIDGING DETAILS

NOTE: OTHER DETAILS FOR UPLIFT BRIDGING ARE SIMILAR  
TO THE TYPICAL HORIZONTAL BRIDGING DETAILS.

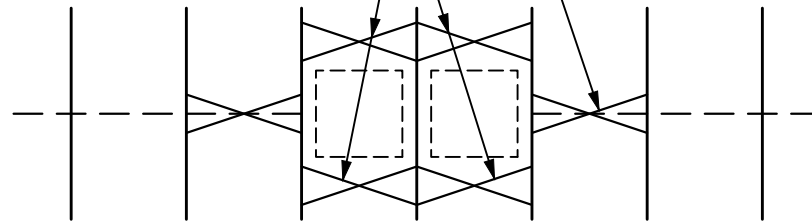


## TYPICAL UPLIFT BRIDGING DETAILS

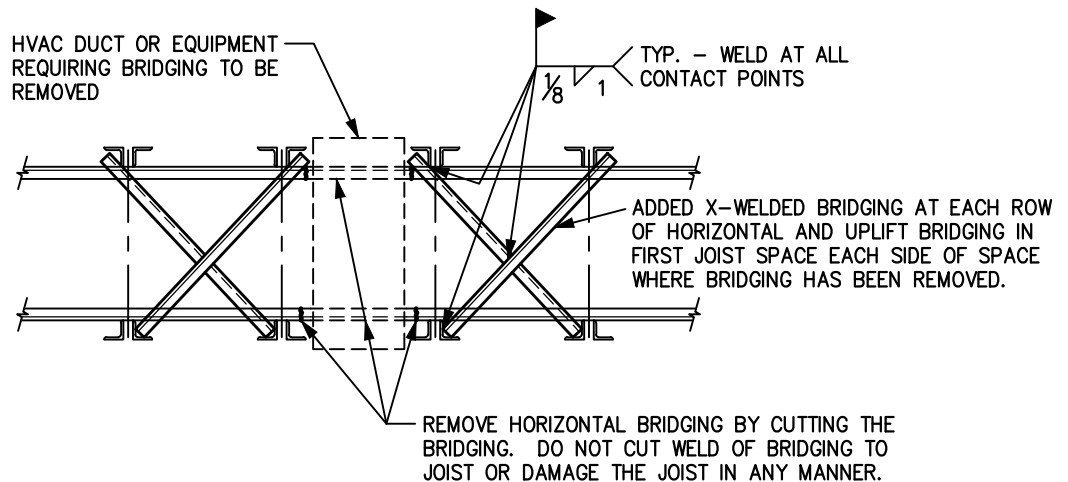
1. THESE DETAILS AND INSTRUCTIONS ASSUME THAT STRUCTURAL DECK IS ATTACHED TO THE TOP CHORD OF THE JOISTS AT LEAST EVERY 36" O.C. IF THIS IS NOT THE CASE, OR IF STANDING SEAM ROOF IS ATTACHED TO THE JOISTS, THEN THESE DETAILS DO NOT APPLY. IN CASES WHERE THESE DETAILS DO NOT APPLY, CONTACT GOODER-HENRICHSEN FOR MORE INFORMATION ABOUT WHETHER BRIDGING CAN BE REMOVED.
2. CARE MUST BE TAKEN TO NOT DAMAGE JOISTS IN ANY MANNER WHEN REMOVING BRIDGING.
3. X-BRIDGING CAN BE REMOVED FROM ONE JOIST SPACE WITHOUT ADDING ANY ADDITIONAL BRIDGING.
4. HORIZONTAL AND UPLIFT BRIDGING CAN BE REMOVED FROM ONE JOIST SPACE IF ADDITIONAL X-WELDED BRIDGING IS INSTALLED WITH THE HORIZONTAL OR UPLIFT BRIDGING IN THE JOIST SPACE ON EACH SIDE OF THE SPACE WHERE THE BRIDGING WAS REMOVED.
5. WHENEVER BRIDGING MUST BE REMOVED FROM TWO OR MORE CONSECUTIVE JOIST SPACES, ADDITIONAL X-WELDED BRIDGING MUST BE INSTALLED IN THE JOIST SPACES WHERE THE BRIDGING WAS REMOVED ON BOTH SIDES OF THE DUCT OR EQUIPMENT. INSTALL THIS ADDITIONAL BRIDGING AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION OF THE BRIDGING THAT WAS REMOVED. THIS IS IN ADDITION TO THE ADDED X-WELDED BRIDGING IN NOTE 4 ABOVE. NOTE: UPLIFT BRIDGING CANNOT BE REMOVED FROM CONSECUTIVE JOIST SPACES.
6. GOODER-HENRICHSEN SUPPLIES THE BRIDGING THAT IS REQUIRED BY THE DESIGN OF THE JOISTS, THE STEEL JOIST INSTITUTE AND OSHA. GOODER-HENRICHSEN DOES NOT SUPPLY ANY ADDITIONAL BRIDGING TO REPLACE OR SUPPLEMENT BRIDGING THAT IS REMOVED, ALTERED OR DAMAGED BY OTHERS.
7. ADDITIONAL OR REPLACEMENT BRIDGING ANGLES SHOULD BE AT LEAST THE SAME SIZE AS THE BRIDGING THAT IS REMOVED. THE BRIDGING THAT IS SUPPLIED BY GOODER-HENRICHSEN IS GRADE 50 STEEL. IF A LOWER YIELD STEEL IS USED FOR REPLACEMENT BRIDGING THEN THE SIZE OF THE ANGLES WILL NEED TO BE INCREASED.

WHEN BRIDGING IS REMOVED FROM MORE THAN ONE ADJACENT JOIST SPACE, INSTALL ADDITIONAL X-WELDED BRIDGING ON EACH SIDE OF THE DUCT OR EQUIPMENT

ADDED X-WELDED BRIDGING AT EACH ROW OF HORIZONTAL AND UPLIFT BRIDGING IN FIRST JOIST SPACE EACH SIDE OF SPACE WHERE BRIDGING HAS BEEN REMOVED.



HVAC DUCT OR EQUIPMENT REQUIRING BRIDGING TO BE REMOVED



## REMOVING BRIDGING FOR MECHANICAL EQUIPMENT AND DUCTS