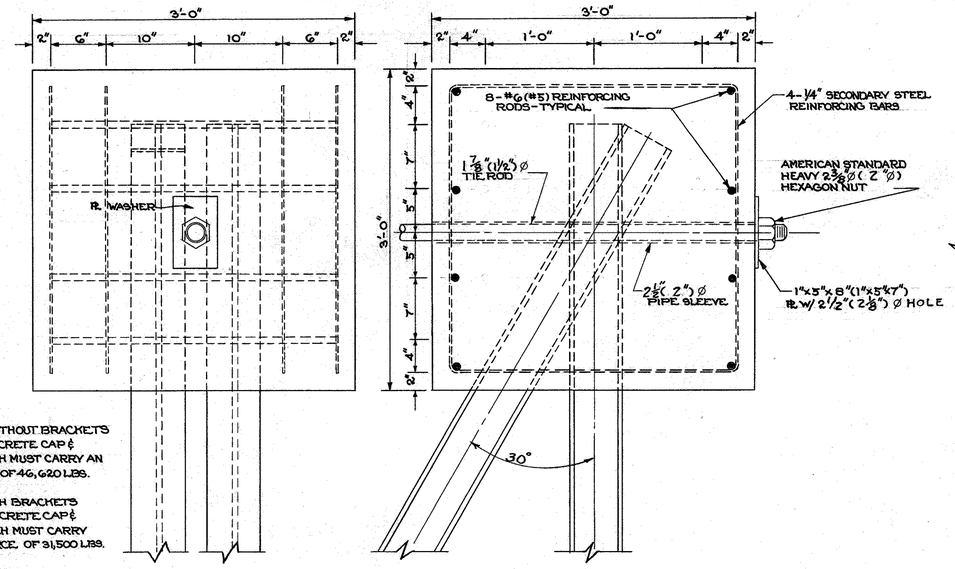
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

14
14

LAKE COUNTY
LAK. 86-0.49



NOTE

TIE RODS WITHOUT BRACKETS REFER TO THE CONCRETE CAP & 1 7/8"ø TIE ROD WHICH MUST CARRY AN ESTIMATED FORCE OF 46,620 LBS.

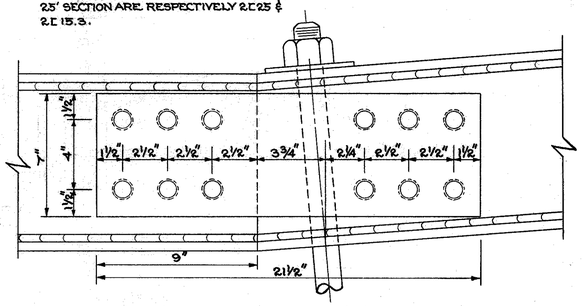
TIE RODS WITH BRACKETS REFER TO THE CONCRETE CAP & 1½"ø TIE ROD WHICH MUST CARRY AN ESTIMATED FORCE OF 31,500 LBS.

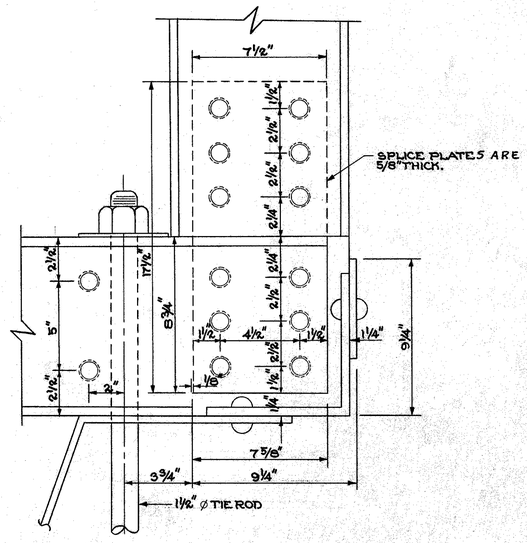
REINFORCED CONCRETE CAP FOR ANCHOR PILES

SCALE: ⅛"=1"

NOTE

SPLICE PLATES FOR THE 30' SECTION OF SHEET PILING ARE 5/8" THICK.
SPLICE PLATES FOR THE 25' SECTION OF SHEET PILING ARE ⅜" THICK.
CHANNELS FOR THE 30' SECTION & 25' SECTION ARE RESPECTIVELY 2 C 25 & 2 C 15.3.





DETAIL OF CORNER SPLICE

SCALE: ¼"=1"

STA. 20+32.5

6-7/8"ø DOWELS SPACED@1'-0" (LENGTH 2'-0"). FIRST DOWEL PLACED 1'-0" BELOW TOP OF SHT. PILING.

3¾" 6¾" 4½" 1⅛"ø TIE ROD 12½" 9'-5½" 9'-4⅞" 10.4'

5/16"x7½"x17½" PL - TOP & BOTTOM

1½"ø TIE ROD 3'-5½"

9¼"

3¾" 9¼"

CORNER SECTION SHALL BE U.S. STEEL C-274, BETHLEHEM ZC-21 OR APPROVED EQUAL.

STA. 20+30.73

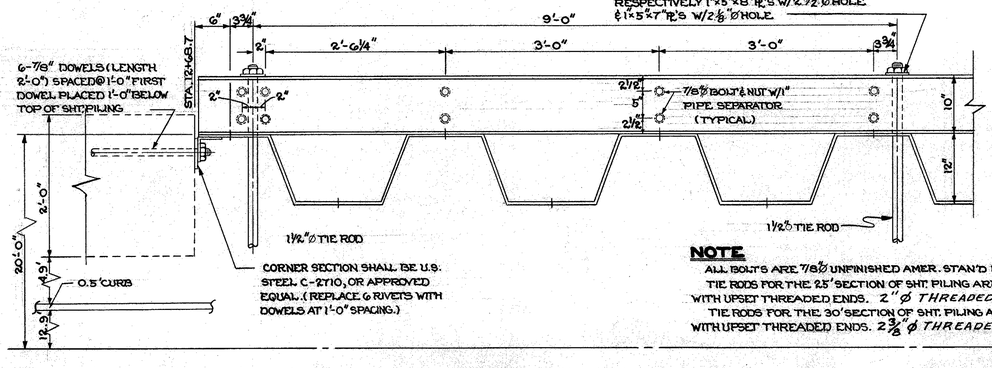
*** NOTE:**

IF LAST PILING DOES NOT CLOSE OPENING BETWEEN EXISTING CONCRETE RETAINING WALL, CONTRACTOR MUST PROVIDE A MEANS TO CLOSE THIS OPENING AS APPROVED BY THE PROJECT ENGINEER. COST OF ANY ADDITIONAL LABOR, MATERIALS, AND INCIDENTALS NECESSARY TO ACCOMPLISH THIS WORK SHALL BE PAID FOR AT THE UNIT PRICE BID FOR SHEET PILING.

NOTE

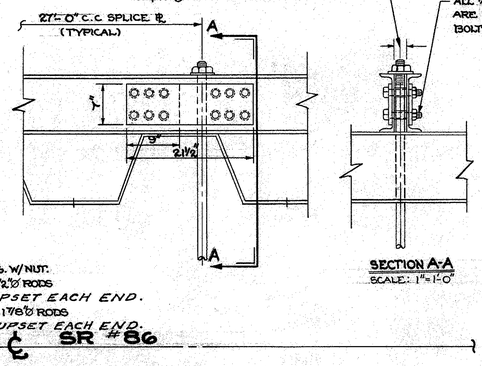
SHEET PILING SHALL BE U.S. STEEL MZ-27 BETHLEHEM ZP-27, OR APPROVED EQUAL.

PLATE WASHERS FOR TIE RODS FOR THE 30' & 25' SECTIONS OF SHT. PILING ARE RESPECTIVELY 1"x5"x8" R'S W/ 2½"ø HOLE & 1"x5"x7" R'S W/ 2⅛"ø HOLE.



NOTE

THE BACK TO BACK DISTANCES SEPARATING THE CHANNELS FOR THE 30' & 25' SECTIONS OF SHEET PILING ARE RESPECTIVELY 2 3/16" & 2 1/8".



ALL 7/8"ø BOLT & NUT COMBINATIONS ARE COMPOSED OF SQUARE HEAD BOLTS & HEXAGON NUTS

SECTION A-A
SCALE: 1"=1'-0"

NOTE

ALL BOLTS ARE 7/8"ø UNFINISHED AMER. STAN'D REG. W/ NUT.
TIE RODS FOR THE 25' SECTION OF SHT. PILING ARE 1½"ø RODS WITH UPSET THREADED ENDS. 2"ø THREADED UPSET EACH END.
TIE RODS FOR THE 30' SECTION OF SHT. PILING ARE 1 7/8"ø RODS WITH UPSET THREADED ENDS. 2⅜"ø THREADED UPSET EACH END.

℄ SR #86

℄ BANK ST.

Scale 1" = 1'-0"