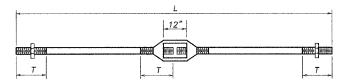


ILLINOIS PROJECT BRS-1122(107)

\* 04-00206-00-BR BR. SHEET 4 OF 6 CONTRACT NO. 87316

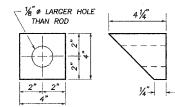


**ROD DETAILS** 

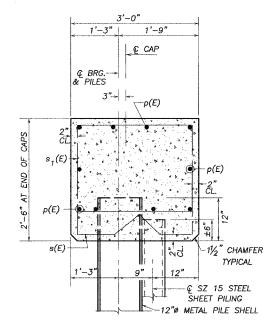
## ROD DETAILS & DIMENSIONS

| Γ |                |          |     |        |     | 7//01/          | EACH ROD    |      |     |
|---|----------------|----------|-----|--------|-----|-----------------|-------------|------|-----|
| 1 | RODS           | SIZE     | NO. | L      |     | TURN-<br>BUCKLE | BEVELED WAS | HERS |     |
|   |                |          |     |        |     | BUCKLE          | SIZE        | NO.  | NUT |
|   | R <sub>1</sub> | 1 3/4" ø | 2   | 64'-6" | 12" | 13/4" ø         | 4"x4"x *    | 2    | 2   |
| ſ | $R_2$          | 11/20    | 2   | 75'-0" | 12" | 11/2"0          | 4"x4"x *    | 2    | 2   |
| Γ | R <sub>2</sub> | 11/4" ø  | 2   | 85'-6" | 12" | 11/4"0          | 4"x4"x *    | 2    | 2   |

\*SEE DETAIL THIS SHEET



BEVELED WASHER DETAIL

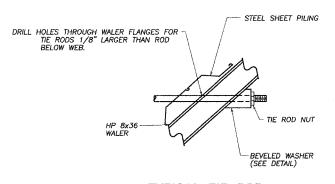


SEC. THRU ABUT. (AT RIGHT ANGLES)

## BILL OF HARDWARE

| ITEM               | NO. | SIZE                |  |  |
|--------------------|-----|---------------------|--|--|
| ROD R <sub>1</sub> | 2   | 1¾"x 64'-6"         |  |  |
| ROD R <sub>2</sub> | 2   | 1½"× 75'-0"         |  |  |
| ROD R <sub>3</sub> | 2   | 1¼ " x 85'-6"       |  |  |
|                    |     |                     |  |  |
|                    |     |                     |  |  |
| BEVELED WASHERS    | 12  | 4"x4"x *            |  |  |
|                    |     |                     |  |  |
| NUTS FOR RODS      | 4   | 13/4", 11/2", 11/4" |  |  |
| TURNBUCKLES        | 2   | 134", 11/2", 11/4"  |  |  |
|                    |     |                     |  |  |
|                    |     |                     |  |  |
|                    |     |                     |  |  |
|                    |     |                     |  |  |
|                    |     |                     |  |  |

\*SEE DETAIL THIS SHEET



TYPICAL TIE ROD CONNECTION DETAIL

## SUBSTRUCTURE NOTES

AFTER THE ABUTMENT PILES ARE IN PLACE, THE CONTRACTOR SHALL START STEEL SHEET PILE DRIVING OPERATIONS WITH A BENT CORNER SHEET AT THE LOCATION SHOWN, OR BY MAKING AN ACCURATE LAYOUT OF THE WALL BEFORE STARTING, SO THAT ALL SHEETS, WALERS AND RODS WILL FIT AS PLANNED.

AFTER THE DECK HAS BEEN POURED, THE CONTRACTOR SHALL WELD A PIECE OF STEEL SHEETING TO THE CORNER SHEET, ABOVE THE ABUTMENT, TO PROVIDE A SOIL STOP BETWEEN THE CORNER SHEET AND THE EDGE OF THE OUTSIDE DECK. COST SHALL BE INCIDENTAL TO STEEL SHEET PILING.

HARDWARE ITEMS SHALL BE HOT-DIPPED GALVANIZED AND ARE INCLUDED FOR PAYMENT PER POUND OF HARDWARE. ALL OTHER MATERIAL AND LABOR REQUIRED FOR THE INSTALLATION OF HARDWARE SHALL BE INCIDENTAL TO THE

AFTER THE WING SHEET PILING IS IN PLACE, HOLES SHALL BE DRILLED (NOT BURNT) IN THE WING SHEETING AND WALERS FOR PASSAGE OF TIERODS.

WALERS & CHANNEL SECTIONS ARE ALL INCLUDED FOR PAYMENT PER POUND OF FURNISHING AND ERECTING STRUCTURAL STEEL. WALERS SHALL HAVE 3/8 INCH DRAINAGE HOLES AT 24 INCH CTS. ALONG CENTERLINE OF WEB.

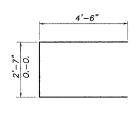
ALL RODS, NUTS, WASHERS, AND WALERS SHALL BE IN PLACE AND PROPERLY SECURED BEFORE BACKFILLING SHALL BEGIN.

BACKFILL SHALL BE PLACED BEHIND THE ABUTMENT AFTER THE SUPERSTRUCTURE HAS BEEN POURED AND THE FALSEWORK REMOVED. SEE ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.

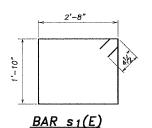
ALL EXPOSED WALERS, CHANNELS, STEEL PILING, STEEL SHEET PILING, AND HARDWARE SHALL BE PAINTED ACCORDING TO THE SPECIAL PROVISIONS FOR CLEANING AND PAINTING NEW METAL STRUCTURES. THE INTERMEDIATE COAT MAY BE APPLIED IN THE SHOP.

THE COLOR OF THE FINAL FINISH COAT SHALL BE REDDISH BROWN, MUNSELL NO. 25 TR 3/4 OR AS APPROVED BY THE ENGINEER.

STEEL SHEET PILING SHALL BE NEW SZ 15 OR APPROVED EQUAL PILING WITH AN EFFECTIVE SECTION MODULUS EQUAL TO OR GREATER THAN 10.9 IN. $^3$ /FT. SEE SPECIAL PROVISION FOR "PERMANENT STEEL SHEET PILING."



BAR u(E)



1'-0" 6" 6"

BAR s(E)

ABUTMENT DETAILS SECTION 04-00206-00-BR CHERRY VALLEY ROAD DEKALB COUNTY SN 019-3061