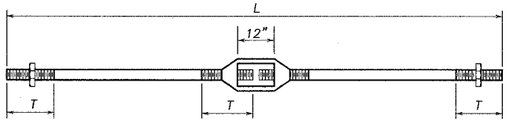
FAS ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
–	*	DEKALB	21	18
ILLINOIS PROJECT BRS-1122(107)				

* 04-00206-00-BR
CONTRACT NO. 87316

BR. SHEET 4 OF 6



ROD DETAILS

ROD DETAILS & DIMENSIONS

RODS	SIZE	NO.	L	T	TURN-BUCKLE	EACH ROD		
						BEVELED WASHERS		NUT
						SIZE	NO.	
R_1	1 ¾"ø	2	64'-6"	12"	1¾"ø	4"x4"x *	2	2
R_2	1 ½"ø	2	75'-0"	12"	1½"ø	4"x4"x *	2	2
R_2	1¼"ø	2	85'-6"	12"	1¼"ø	4"x4"x *	2	2

*SEE DETAIL THIS SHEET

BILL OF HARDWARE

ITEM	NO.	SIZE
ROD R_1	2	1¾" x 64'-6"
ROD R_2	2	1½" x 75'-0"
ROD R_3	2	1¼" x 85'-6"
BEVELED WASHERS	12	4"x4"x *
NUTS FOR RODS	4	1¾", 1½", 1¼"
TURNBUCKLES	2	1¾", 1½", 1¼"

*SEE DETAIL THIS SHEET

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 CONTRACT.

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.

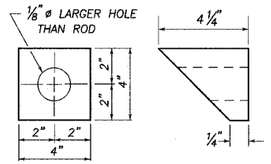
ALL RODS, NUTS, WASHERS, AND WALERS SHALL BE IN PLACE AND PROPERLY SECURED BEFORE BACKFILLING SHALL BEGIN.

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.

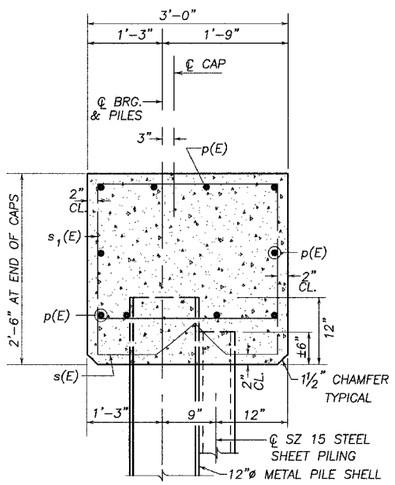
ALL EXPOSED WALERS, CHANNELS, STEEL PILING, STEEL SHEET PILING, AND HARDWARE SHALL BE PAINTED ACCORDING TO THE SPECIAL PROVISIONS FOR CLEANING AND PAINTING NEW METAL STRUCTURES. THE INTERMEDIATE COAT MAY BE APPLIED IN THE SHOP.

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

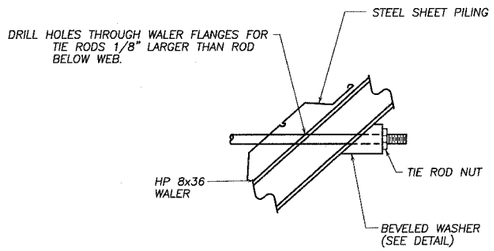
STEEL SHEET PILING SHALL BE NEW SZ 15 OR APPROVED EQUAL PILING WITH AN EFFECTIVE SECTION MODULUS EQUAL TO OR GREATER THAN 10.9 $IN.^3/FT.$ SEE SPECIAL PROVISION FOR "PERMANENT STEEL SHEET PILING."



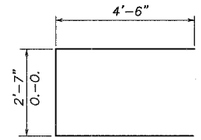
BEVELED WASHER DETAIL
(12 REQUIRED)



SEC. THRU ABUT.
(AT RIGHT ANGLES)



TYPICAL TIE ROD CONNECTION DETAIL



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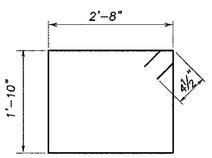

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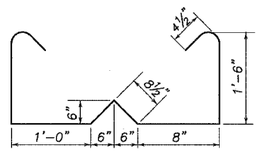

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ABUTMENT DETAILS
SECTION 04-00206-00-BR
CHERRY VALLEY ROAD
DEKALB COUNTY
SN 019-3061

SB-43