

ELEVATION

BILL OF MATERIAL FOR ONE RAIL 19 FT (2 REQ.D)

TREATED LUMBER		
ITEM	SIZE	LIN. FT.
RAILS	2"x 6"	57.00
RAIL POSTS	4"x6"	22.00
TOP RAIL	2"x8"	19.00
WHEEL GUARD	6"x6"	19.00
WHEEL GUARD BLOCK	6"x6"	6.00
RETAINING STRIP	2"x10"	19.00
END POSTS	2"x8"	7.50
SPACER BLOCK	6"x6"	5.00

FLASHING MEMBRANE		
ITEM	SIZE	LIN. FT.
MEMBRANE FOR RETAINER STRIP	1'-6"	19.00

HARDWARE FOR BOLT CONNECTIONS				
ITEM	Nos.	SIZE	LENGTH	LBS.
TIMBER BOLTS (WHEEL GUARD)	4	5/8" Ø	20"	8.00
TIMBER BOLTS (SPACE BLOCK)	4	5/8" Ø	30"	11.00
TIMBER BOLTS (RAIL)	4	5/8" Ø	14"	6.00
HEAVY HEX NUTS	12	5/8" Ø		2.00
STANDARD WASHERS	4	5/8" Ø		1.00
LOCK WASHERS	4	5/8" Ø		1.00
OGEE WASHERS	8	5/8" Ø		5.00

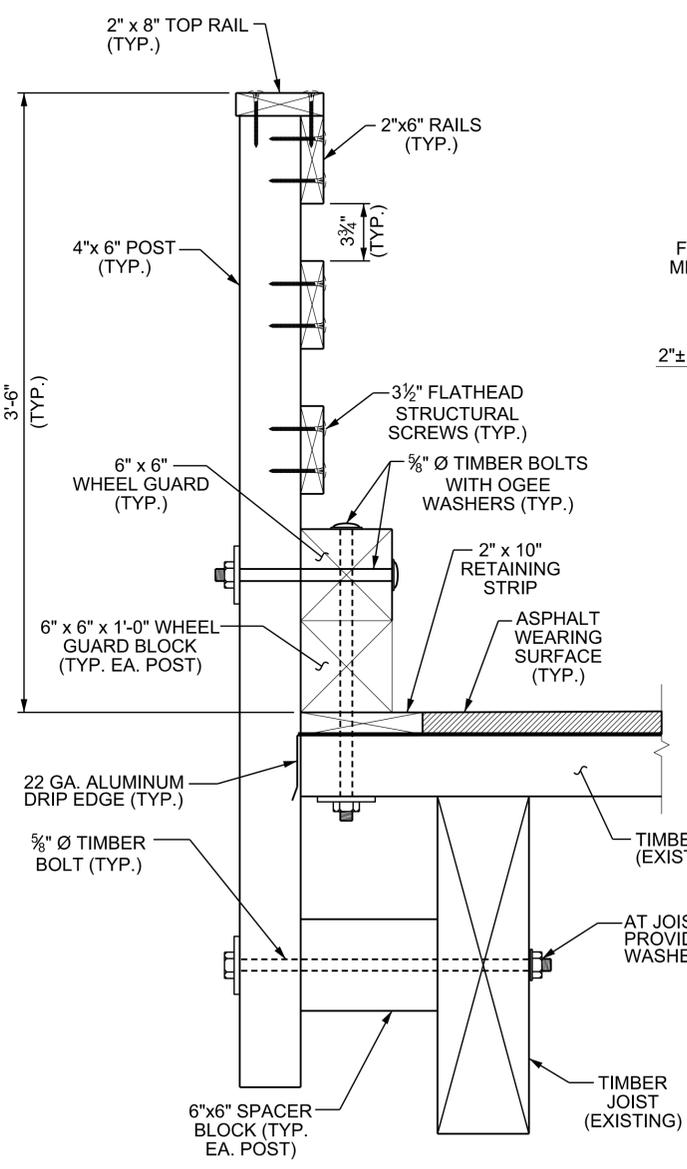
HARDWARE FOR CONNECTIONS _____ APPROX. 34.00 LBS.

HARDWARE FOR SCREW CONNECTIONS				
ITEM	Nos.	SIZE	LENGTH	LBS.
FLATHEAD STR. SCREWS	220	0.160" Ø	3 1/2"	10.00

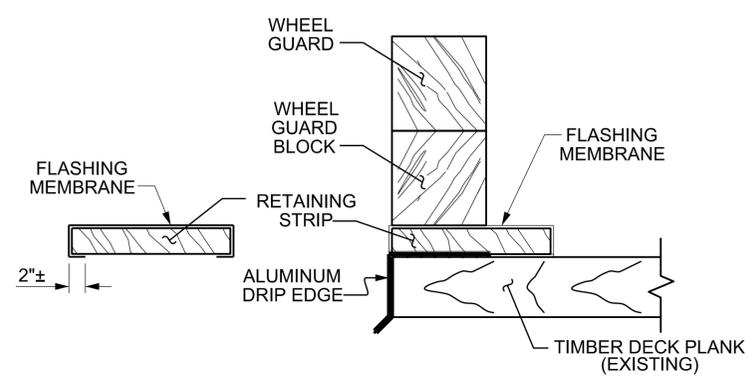
HARDWARE FOR CONNECTIONS _____ APPROX. 10.00 LBS.

ACCESSORIES	
ITEM	Nos.
4 X 34 LINEAR DELINEATOR	3
W23-10 12x36 DELINEATOR	2
U-CHANNEL SUPPORT POST	2

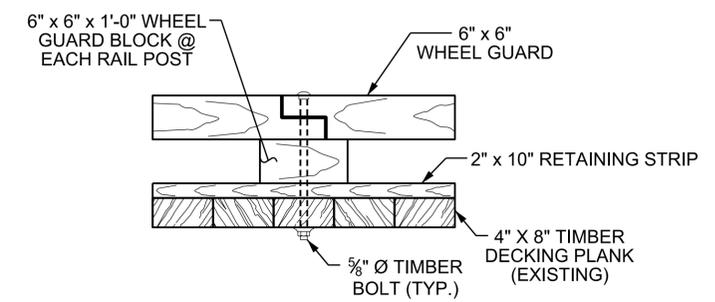
PAY LENGTH = 38.00 LIN. FT.



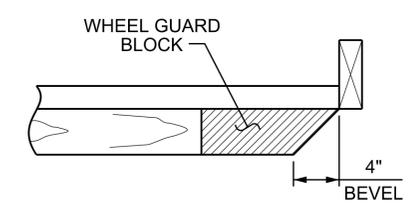
SECTION A-A



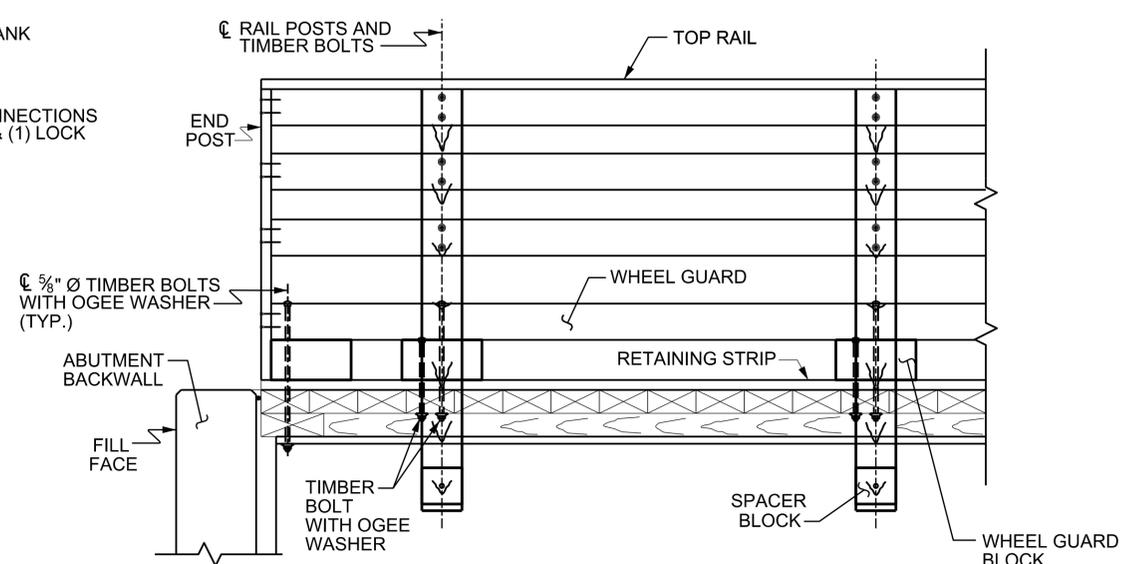
RETAINING STRIP DETAILS
POST AND BOLTS NOT SHOWN FOR CLARITY



WHEEL GUARD SPLICE DETAIL



VIEW B-B



RAIL DETAIL AT ABUTMENTS

NOTES

BRIDGE RAILS SHALL BE CONTINUOUS FROM END POST TO END POST WITH NO GAPS. RAIL LUMBER LENGTHS SHALL BE ATTACHED TO A MINIMUM OF THREE POSTS.

TREAT ALL DRILLED OR NEWLY EXPOSED HOLES IN TIMBER MEMBERS BY PUMPING WITH BITUMINOUS ASPHALT-BASED ROOFING CEMENT, OR APPROVED PRESERVATIVE SYSTEM BEFORE INSTALLING HARDWARE.

PROJECT NO. W03291
POLK COUNTY
 BRIDGE NO. 740202
 SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

STANDARD
 TIMBER BRIDGE RAIL
 SYSTEM

2/4/2026

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
 201 W. MARION ST STE 200
 SHELBY, NC 28150
 PH (704) 476-0003
 CORP. LICENSE NO.: C-0275

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S1-2
2			4			TOTAL SHEETS 2

ASSEMBLED BY: NMW	DATE: 12/25
CHECKED BY: MGC	DATE: 12/25
DRAWN BY: BNB	4/24
CHECKED BY: JDH	10/24

