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	NOTES
Hollow structur	ol sections shall conform to the requirements of
ASTM designation A 500 Grade B Structural Steel Tubing and shall	
meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.	
All other steel shapes and plates shall conform to the requirements of	
AASHTO M 270	Grade 36 except posts and angles shall conform to
AASHTO M 210	Grade 50 except posts and angles shall contorm to
AASHTO M 270.	
Bolts, cap scr	ews, and nuts shall conform to the requirements of
ASTM designation A 307 except for high strength bolts, nuts and washers	
	conform to AASHTO M 164.
All bolts, nuts,	cap screws, washers and lock washers shall be
	ding to AASHTO M 232.
	ng, rail splices, anchor devices and angles shall be
galvanized after shop fabrication according to AASHTO M 111 and	
ASTM A 385. Galvanized rail shall not be painted.	
	e according to Section 509 of the Standard
Specifications, e,	xcept as noted, and will be paid for at the contract
unit price per fo	not for Steel Bridge Rall, Type SM.
All field drilled	holes shall be coated with an approved zinc rich
paint before erec	stion.
For multi-span	bridges, sufficient 4" x 6" x 1'-2" advanized
steel shims shall	be provided to align rail between adjacent spans.
Cost included with Steel Bridge Rail, Type SM.	
The ${}^{3}_{4}$ $'' \phi$ high strength bolts used to connect the 6 x 4 x ${}^{3}_{4}$ angles	
the $\gamma_4 = \varphi$ high strength points used to connect the 6 x 4 x γ_4 angles to the post shall be tightened according to Article 505.04(f)(2)	
for the post shull	De rightened according to Article 505.04(r)(2)
or the Stanaara	Specifications. The 1" \$ high strength bolts connecting
the angles to the	concrete shall be tightened to a snug fit and given
an additional ^I 8 t	urn. The ${}^{5}\!\!_{8}{}^{\prime\prime}\phi$ cap screws in bottom of posts shall be
tightened to a sr	nug fit only.
olid flux	
mina to	BILL OF MATERIAL
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d. Specs.	Item Unit Quantity
	Steel Bridge Rail,
	Type SM Foot 301
ipler Nuts	
l, Grade	
bar and	TYPE SM
rew.	<u>STEEL BRIDGE RAIL SIDE MOUNTED</u>
WITH CONCRETE WEARING SURFACE	
U.S. 20 OVER RUSH CREEK	
F.A.P. ROUTE 301 - SEC. 24BR-1	
JO DAVIESS COUNTY	
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