

NOTES			
Hollow structural 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 270, Grade 50, Bolts, cap screws, and nuts shall conform to the requirements of			
ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164. All bolts, nuts, cap screws, washers and lock washers shall be			
galvanized according to AASHTO M 232. All posts, railing, 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.			
Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract			
unit price per foot for Steel Bridge Rall, Special. All field drilled holes shall be coated with an approved zinc rich paint before erection.			
For multi-span bridges, sufficient ${}^{l}_{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.			
The $l_2'' \times 7'' \times 6''$ plates that come in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place $l_3''$ fabric bearing pads between the plates and concrete.			
The ${}^{3}_{4}$ '' $\phi$ high strength bolts used to connect the 6 x 4 x ${}^{3}_{4}$ angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1'' $\phi$ high strength bolts connecting			
the angles to the concrete shall be tightened to a snug fit and given an additional $_B^\prime$ turn. The $_{5}^{\prime\prime}$ $\phi$ cap screws in bottom of posts shall be tightened to a snug fit only.			
NOTE: See Sheet 2 of 20 for Post Spacing			
" BILL OF MATERIAL Unit Quantity			
3'' 34''	34'' Steel Bridge Rail, Foot 842		
	STEEL BRIDGE RAIL, SPECIAL		
4 30°	SECTION 94-00087-00-BR COUNTY HIGHWAY 23 - FAS ROUTE 429 HANCOCK COUNTY STA. 313+34		
Hall	4440 45H GBOVE		JOB NO.: 0319
	SPRINGFIELD, IL. 62711 (217) 793–8600 casinc@famvid.com	OZYURT AND STONE, INC. CONSULTING ENGINEERS	FILE: 0319RAIL.DGN DATE: 08/24/05