

I designation A 500 Grade B Structural Steel Tubing and shall the longitudinal CVN requirements of 15 ft-lbs at 0° F. ather steel shapes and plates shall conform to the requirements of ITO M 270, Grade 36 except posts and angles shall conform to ITO M 270, Grade 50. Its, cap screws, and nuts shall conform to the requirements of designation A 307 except for high strength bolts, nuts and washers which shall conform to AASHTO M 164. bolts, nuts, cap screws, washers and lock washers shall be nized according to AASHTO M 232. posts, railing, rail splices, anchor devices and angles shall be nized after shop fabrication according to AASHTO M 111 and A 385. Galvanized rail shall not be painted. ling shall be according to Section 509 of the Standard fications, except as noted, and will be paid for at the contract price per foot for STEEL RAILING, TYPE S-1. field drilled holes shall be coated with an approved zinc rich before erection. e lower portion of the post flange in contact with concrete shall ve two coats of asphalt paint conforming to Section 1060.07 Type II ace $\frac{1}{3}$ of abricating pad between the post and concrete. $= \frac{3}{4}$ wigh strength bolts used to connect the 6 x 4 x $\frac{3}{4}$ angles e post shall be tightened according to Article 505.04(f)(2) of the lard Specifications. The 1" $\phi$ high strength bolts connecting ngles to the concrete shall be tightened to a snug fit and given iditional $\frac{1}{6}$ turn. The $\frac{5}{6}$ " $\phi$ cap screws in bottom of posts shall be med to a snug fit only. " multi-span bridges, sufficient $\frac{1}{4}$ " x 6" x 1'-2" galvanized shims shall be provided to align rail between adjacent spans.	FAP 774 IO7B-2 EFFINGHAM 344 328   FED. ROAD DIST. NO. 7 ILLINDIS FED. AID PROJECT-   CONTRACT NO. 94827							
<b>EVERT BALLEY AND AND AND AND AND AND AND AND AND AND</b>	I to		ADUTE NO.	SECTION	COUNTY	FOTAL SHRETS	S-det	SHEET NO. 7
<b>EXAMPLE 1</b> <b>EXAMPLE 1</b> <b>EXAM</b>	Solutions of the post flange in contact with concrete shall be indered for the post shall be indered by the post shall be post shall be post shall be post flange in contact with concrete shall be indered by the post shall be indered by the post shall be post shall be post for the post post of the strength by the post of the shall be post of the post of the strength by the post of the st						328	8 SHEETS
Its, cap screws, and nuts shall conform to the requirements of 1 designation A 307 except for high strength bolts, nuts and washers 1 which shall conform to AASHTO M 164. bolts, nuts, cap screws, washers and lock washers shall be nized according to AASHTO M 232. posts, railing, rail splices, anchor devices and angles shall be nized after shap fabrication according to AASHTO M 111 and 1 A 385. Galvanized rail shall not be painted. ling shall be according to Section 509 of the Standard fications, except as noted, and will be paid for at the contract porce per foot for STEEL RAILING, TYPE S-1. field drilled holes shall be coated with an approved zinc rich before erection. a lower portion of the post flange in contact with concrete shall ve two coats of asphalt paint conforming to Section 1060.07 Type II ace $\frac{1}{3}$ (* $\phi$ high strength bolts used to connect the 6 x 4 x $\frac{3}{4}$ angles a post shall be tightened according to Article 505.04(f)(2) of the lard Specifications. The 1'' $\phi$ high strength bolts connecting ngles to the concrete shall be tightened to a snug fit and given iditional $\frac{1}{6}$ turn. The $\frac{5}{9}$ (* $\phi$ cap screws in bottom of posts shall be whend to a snug fit only. multi-span bridges, sufficient $\frac{1}{4}$ (* x 6'' x 1'-2'' galvanized shims shall be provided to align rail between adjacent spans.	Its, cap screws, and nuts shall conform to the requirements of designation A 307 except for high strength bolts, nuts and washers which shall conform to AASHTO M 164. bolts, nuts, cap screws, washers and lock washers shall be nized according to AASHTO M 232. posts, railing, roll splices, anchor devices and angles shall be nized after shop fabrication according to AASHTO M 111 and (A 385. Galvanized roll shall not be painted. ling shall be according to Section 509 of the Standard frications, except as noted, and will be poid for at the contract price per foot for STEEL RAILING, TYPE S-1. field drilled holes shall be coated with an approved zinc rich before erection. e lower portion of the post flange in contact with concrete shall the two coats of asphalt paint conforming to Section 1060.07 Type 11 ace $\frac{1}{3}$ " $\phi$ high strength bolts used to connect the 6 x 4 x $\frac{3}{4}$ angles e post shall be tightened according to Article 505.04(f)(2) of the lard Specifications. The 1" $\phi$ high strength bolts connecting ngles to the concrete shall be tightened to a snug fit and given iditional $\frac{1}{3}$ turn. The $\frac{5}{9}$ " $\phi$ cap screws in bottom of posts shall be ned to a snug fit only. multi-span bridges, sufficient $\frac{1}{4}$ " x 6" x 1'-2" galvanized shims shall be provided to align rail between adjacent spans. included with STEEL RAILING, TYPE S-1.	l designation A the longituding other steel st ITO M 270 Gro	500 Grad I CVN requires and apes and side 36 exc	MC hall co le B S liremen plates	DTES Inform to the tructural Ste shall confor	e require sel Tubir lbs at C m to the	ng and N° F. Frequir	shall ements of
	with flat washer & 3 <sub>4</sub> " ¢ X pipe spacer, 1 <sub>2</sub> " long <u>ICE CONNECTION</u>	ts, cap screw, t designation A which shall c bolts, nuts, cu- hized according posts, railing, nized after shi t A 385. Galv ling shall be a fications, exce price per foot field drilled hi before erection to lower portion te two coats c cace $\frac{1}{9}$ ' f abric $\frac{1}{9}$ or shall be lard Specificat ngles to the c latitional $\frac{1}{9}$ turn ned to a snugg- shims shall be	s, and nuts 307 exce onform to ap screws, g to AASH rail splice partical rail splice partical rail splice partical rail splice for STEE for STEE for STEE for splath bearing put trength bo on, the po of the po on, the po trength so a tightened ions. The oncrete sh fit only. ridges, suf provided	pt for AASHT wash TO M . s, anc ion ac shall o Sect. d, ana L RAI o Sect. d, ana L RAI bo coat bost flau boant c accor 1'' φ ca ficient to alig.	high streng TO M 164. ers and lock 232. hor devices cording to A not be paint ion 509 of 1 i will be paint LING, TYPE ted with an nge in conta conforming th ween the po- d to connece ding to Artich high strength tightened to p screws in '4'' x 6'' x n rail between	th bolls, washers and ang ASHTO ed. he Stand for at S-1, approved to Section st and c t the 6 cle 505. h bolts c a snug bottom 1'-2'' g	nuts of s shall les sha M 111 a dard the co t zinc i concrete x 4 x connect fit ana of posi galvaniz	and washers be II be nd ntract trich e shall 07 Type II 34 angles of the ing ! given ts shall be ed
<i>BILL OF MATERIAL</i> <i>Item Unit Quantity</i> <i>Steel Railing Type S-1 Foot 222</i>		<u>Locknut</u> " <u>Is" &amp; holes</u> in 3 <sub>8</sub> " P. <b>P</b>	1200th	STR RTE EF	REET OV 5. 774, S FFINGHAN FATION 2	ER GF SECTION COU 204+3	REEN ON 10 NTY 3.91	CREEK
Item   Unit   Quantity     It. at 50° F.   Steel Railing Type S-1   Foot   222     Item   Unit   Quantity     Steel Railing Type S-1   Foot   222     Item   Unit   Quantity     Locknut   TYPE S-1   STEEL RAILING     Iso in 3g" R   1200th STREET OVER GREEN CREEK     FAP RTE.   774, SECTION 107B-2     EFFINGHAM COUNTY	ME" & holes1200th STREET OVER GREEN CREEKIn 3g" EFAP RTE. 774, SECTION 107B-2EFFINGHAM COUNTYSTATION 204+33.91				EFFINGI	НАМ С	OUNT	γ