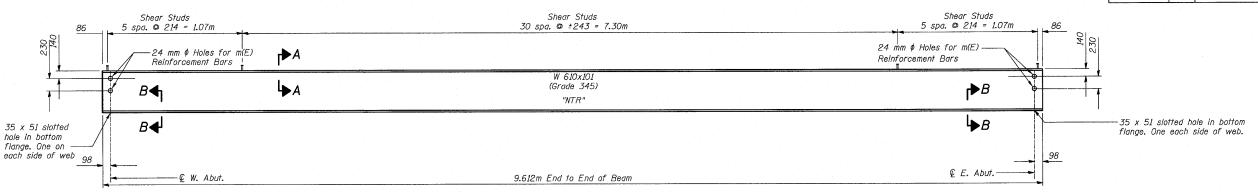


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



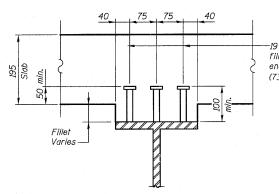
17 SHEETS



GIRDER ELEVATION

(Looking North)

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



-19 mm & Granular or solid flux filled headed studs, automatically end welded to flange. (738 Reg'd.)

IN7	ERIOR	GIRDER M	OMENT	TABLE	
		0.5 Sp. 1			
Is (10 ⁶	5 mm4)	764			
Ic (n) (10 ⁶	9 mm4)	2876			
	5 mm4)	2205			-
	3 mm 3)	2534			
Sc (n) (10	3 mm3)	4487			
Sc (3n) (10	3 mm3)	4029			
P	(kN/m)	12.4			
MQ	(kN• m)	134			
s₽	(kN/m)	7.23			
Ms₽	(kN·m)	86			
MŁ	(kN⋅m)	365			
M (Imp)	(kN·m)	110			
53[M L+ M(Imp)]	$(kN \cdot m)$	837	<u> </u>		
Ма	(kN·m)	1374			
Mu	(kN·m)	1821			
fs@(non-com	o)(MPa)	57.6			
fs@(comp)	(MPa)	21.3			
$fs5_3(4+Imp)$	(MPa)	188			
fs (Overload)	(MPa)	263			
VR	(kN)	235		-	

TOP OF GIRDER ELEVATIONS (FOR FABRICATION ONLY)

	Location	€ W. Abut.	€ E. Abut.
i	Girder 1	227.772	227.697
	Girder 2	227.969	227.895
	Girder 3	228.166	228.092
	Girder 4	228.363	228.289
	Girder 5	228.560	228.486
	Girder 6	228.757	228.683

		-
DESIGNED	PAT2	
CHECKED	RCJ/JRF	_
DRAWN	RDS	
CHECKED	PAT2	

/ }_	Applied Technologies
-------------	-----------------------------

INTERIOR GIRDER REACTION TABLE				
		Abuts.		
R₽	(kN)	95.6		
R4	(kN)	180.8		
Imp.	(kN)	54.2		
R (Total)	(kN)	330.6	· .	

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

Ic(n) and Sc(n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

Ic(3n) and Sc(3n) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads.

VR is the maximum Live Load + Impact shear range in span.

Ma (Applied Moment)=1.3[M ℓ + Ms ℓ + ℓ 3(M ℓ + M(Imp))]. The Plastic Moment capacity (Mu) is computed according to AASHTO 10.48.1 and 10.50.1.1.

fs (Overload) is the sum of the stresses due to $MP + MsP + 5_3(M + M(Imp))$.

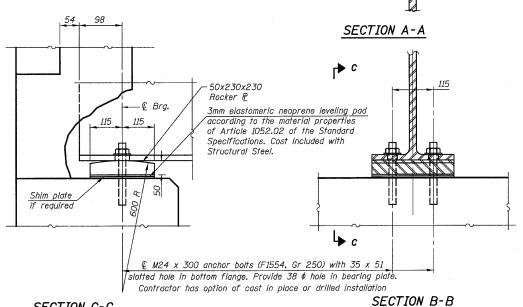
NOTES

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 250 (Fy=250MPa). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Bearings and Structural Steel are Furnished in a separate contract. Cost for erecting these items is included in this contract as "Erecting Structural Steel"



SECTION C-C

FIXED BEARING

FRAMING DETAILS AND DESIGN DATA TABLES FAP 303 IL. ROUTE 173 OVER WEST BOAT CHANNEL SECTION 134(B&B-2)R-1 LAKE COUNTY STATION 25+098.390 STRUCTURE NO. 049-0055