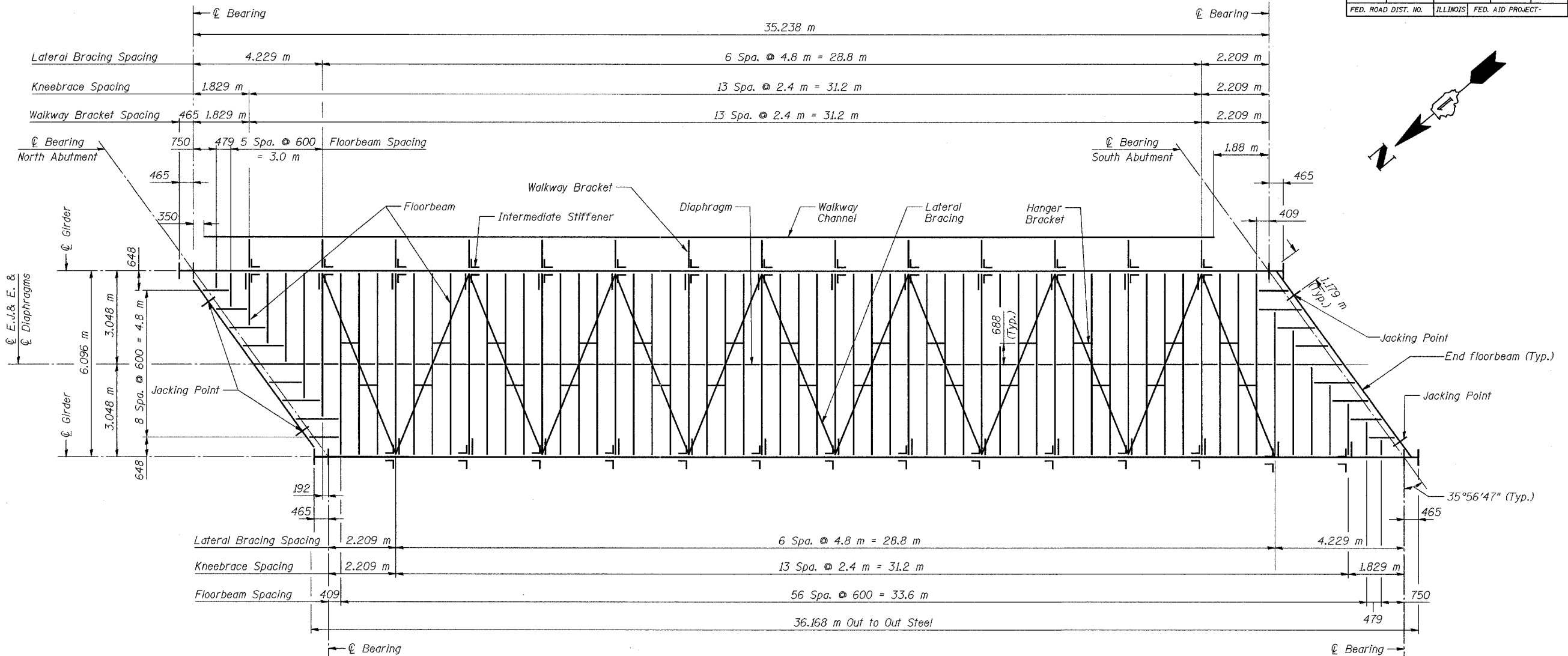


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 337	(19R-D)	LAKE	800	590
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 8
37 SHEETS



FRAMING PLAN

MOMENT TABLE

Description	Thru Girder	Floorbeam W610x113	*Floorbeam W610x113	End Floorbeam W610x217
Moment of Inertia, Gross I_G	196.638 (10^9 mm^4)	875 (10^6 mm^4)	875 (10^6 mm^4)	1,910 (10^6 mm^4)
Moment of Inertia, Net I_N	192.723 (10^9 mm^4)	874.8 (10^6 mm^4)	874.8 (10^6 mm^4)	1,887.7 (10^6 mm^4)
Section Modulus, Gross S_G	129.028 (10^6 mm^3)	2,880 (10^3 mm^3)	2,880 (10^3 mm^3)	6,080 (10^3 mm^3)
Section Modulus, Net S_N	124.418 (10^6 mm^3)	2,877.8 (10^3 mm^3)	2,877.8 (10^3 mm^3)	6,012 (10^3 mm^3)
Dead Load DL (kN/m)	53.49	7.11	7.11	7.11
Dead Load Moment M_{DL} (kN-m)	8,302	33	18	18
Live Load Moment M_L (kN-m)	11,679	230.3	99	99
Impact Moment M_I (kN-m)	2,944	122.8	53	53
Moment at bottom of kneebrace (kN-m)	-	-	147	-
Jacking Load (kN)	-	-	-	942
Jacking load moment (kN-m)	-	-	-	904
Total Moment M_{TOTAL} (kN-m)	22,925	386	317	317
Flexural Stress f_s TOTAL (MPa)	184.26	134	104	153 (At 150% of allowable)

REACTION TABLE

Description	Thru Girder	Floorbeam W610x113	*Floorbeam W610x113	End Floorbeam W610x217	Jacking load governs
Dead Load (kN)	942	22	15	-	-
Live Load (kN)	1,499	101	101	-	-
Impact (kN)	378	54	54	-	-
Kneebrace (kN)	-	-	24	-	-
Jacking Load (kN)	-	-	-	-	942
Total (kN)	2,819	177	194	942	

* At Knee Brace Locations

Notes:

1. All dimensions are in millimeters (mm) except as noted.
2. Work this sheet with sheets 9 through 14.

FRAMING PLAN

Date	Designed EV	ELGIN, JOLIET & EASTERN RY. CO. BRIDGE OVER ILLINOIS ROUTE 22 F.A.P. ROUTE 337 SECTION (19R-D) LAKE COUNTY STATION 32+611.151 STRUCTURE NO. 049-0188	Sheet No.
Revisions	Drawn EV		8
	Checked NPP		
	Approved NPP		
Prepared By: URS			