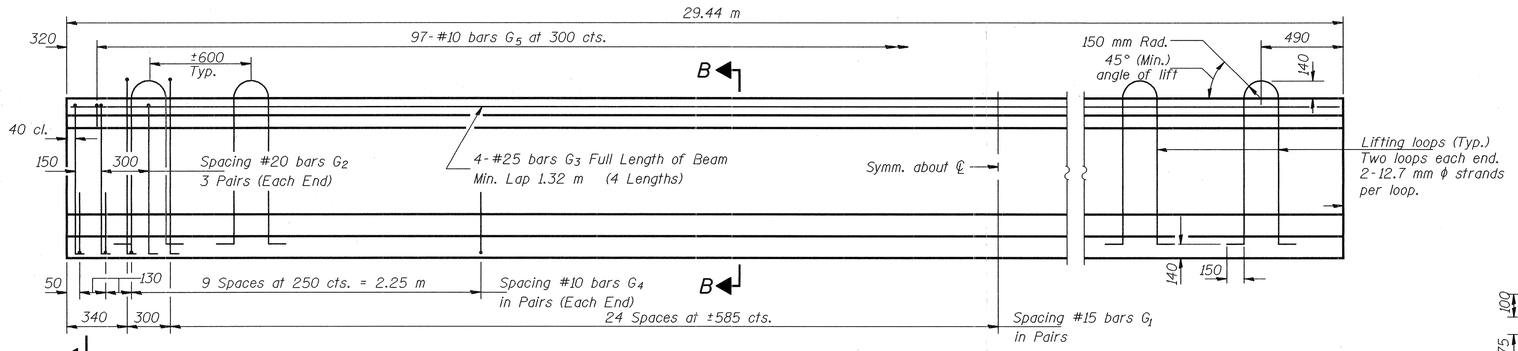
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

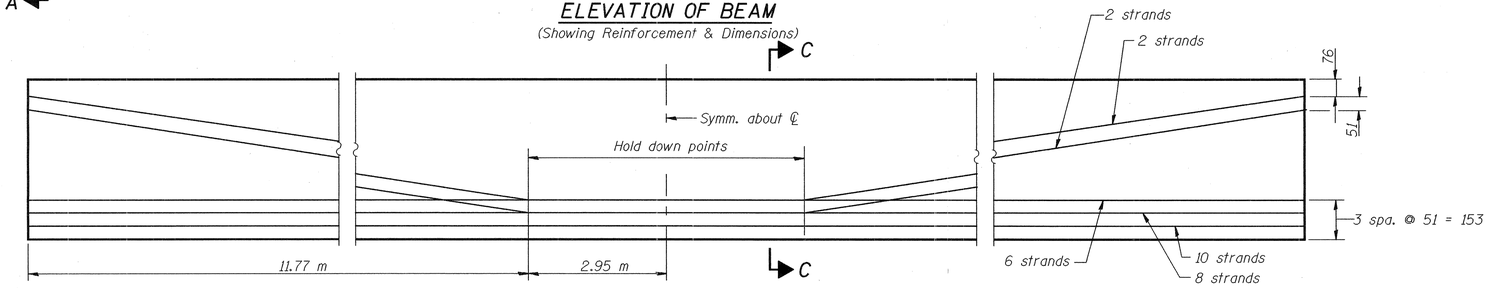
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A.P. 614	147(RS -5,B-1)	MORGAN	198	105
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8
12 SHEETS

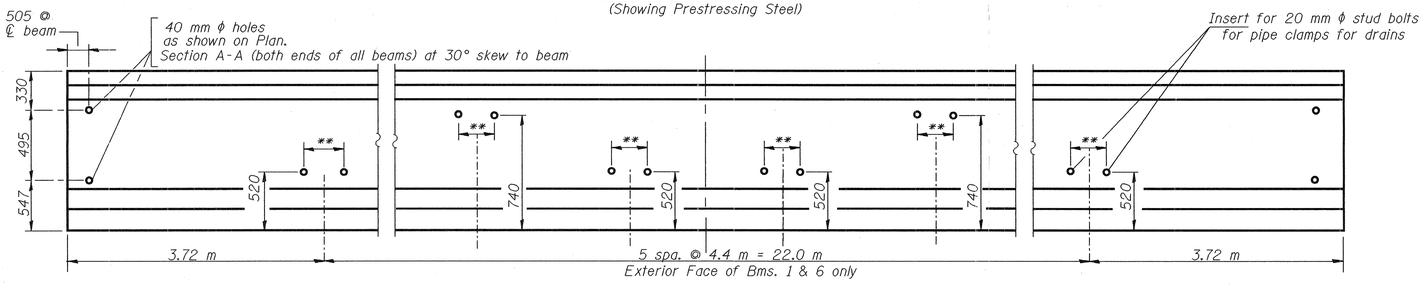
92656



ELEVATION OF BEAM
(Showing Reinforcement & Dimensions)

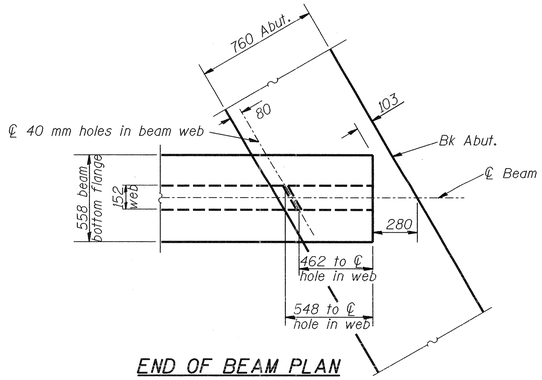


ELEVATION OF BEAM
(Showing Prestressing Steel)

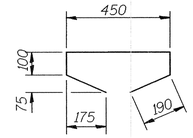


** Dimension as required by pipe clamp

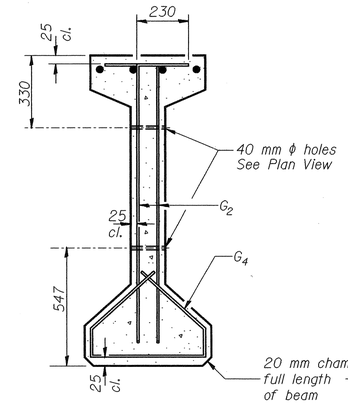
ELEVATION OF BEAM
(Showing Location of Holes and Inserts)



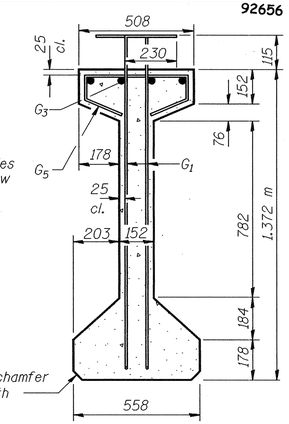
END OF BEAM PLAN



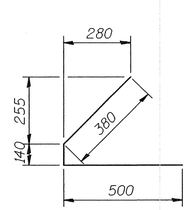
BAR G_5



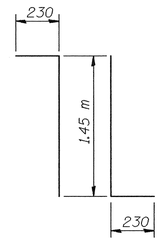
SECTION A-A



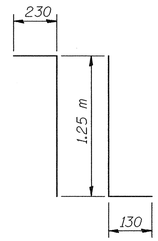
SECTION B-B



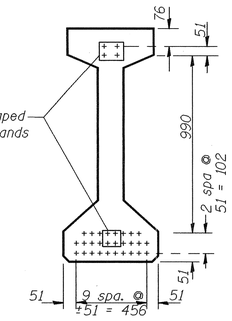
BAR G_4



BAR G_1



BAR G_2



SECTION C-C

* BAR LIST

Bar	No.	Size	Length (m)	Shape
G_1	102	#15	1.91	⅂L
G_2	12	#20	1.61	⅂L
G_3	16	#25	8.35	—
G_4	48	#10	1.02	⊂
G_5	97	#10	1.03	⊃

* For one beam only.

NOTES

All inserts and threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per meter of "Furnishing and Erecting Precast Prestressed Concrete I-Beams, 1372 mm."

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand (Fu=1860 MPa).

The nominal diameter shall be 12.7 mm and the nominal cross-sectional area shall be 98.71 mm².

Non-prestressing steel shall conform to AASHTO designation M-31M, M-42M or M-53M Grade 400.

Lifting loops shall be 2 -12.7 mm ϕ strands (Fu=1860 MPa), as shown.

Required release strength, f'ci, shall be 35 MPa.

Reinforcement bars designated (E) shall be epoxy coated.

All dimensions are in millimeters (mm) except as noted.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 1372 mm	m	176.5

BEAM DETAILS
IL RTE 78 OVER LITTLE INDIAN CREEK
F.A.P. RTE 614
SECTION 147(RS-5,B-1)
MORGAN COUNTY
STATION 18+980
S.N. 069-0502

DESIGNED JFJ	RANDOLPH & ASSOCIATES, INC. 901 W. PIONEER PARKWAY, PEORIA, IL 61615-2124 TEL.309-693-8044 FAX.309-693-6655 *1-800-831-9221 HTTP://WWW.RANDOLPHINC.COM CONSULTING ENGINEERS • LAND SURVEYORS	FILE NUMBER 136.80
CHECKED DDB		
DRAWN HLS		DATE January 2002
CHECKED DDB		

PI-4-1372 (M) 7-1-94

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