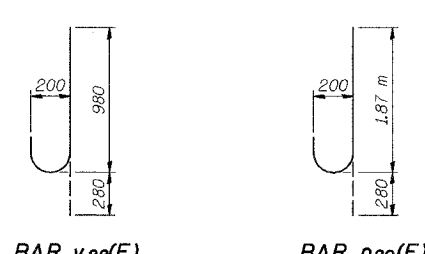
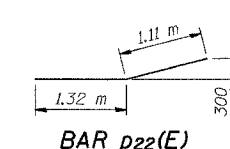
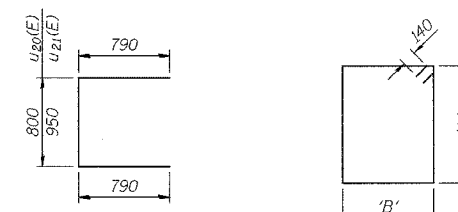


**PIER 1 AND 2 - EASTBOUND
BILL OF MATERIAL**

Bar	No.	Size	Length (m)	Shape
h20(E)	16	#15	9.14	—
h21(E)	48	#15	9.66	—
h22(E)	80	#15	8.70	—
h23(E)	8	#15	8.78	—
h24(E)	8	#15	7.73	—
h25(E)	8	#15	5.18	—
n20(E)	312	#25	2.15	U
p20(E)	28	#25	9.48	—
p21(E)	28	#25	8.89	—
p22(E)	14	#25	2.43	—
p23(E)	28	#25	9.66	—
s20(E)	90	#15	3.78	□
s21(E)	10	#15	2.28	□
s22(E)	109	#15	2.08	□
s23(E)	204	#15	2.50	□
s24(E)	212	#20	5.20	□
s25(E)	212	#20	4.74	□
s26(E)	90	#15	4.08	□
s27(E)	10	#15	2.43	□
s28(E)	73	#15	2.23	□
t20(E)	192	#25	3.10	—
u20(E)	7	#20	2.38	C
u21(E)	7	#20	2.53	C
v20(E)	156	#25	3.03	—
v21(E)	156	#25	3.43	—
v22(E)	132	#25	1.26	U
w20(E)	48	#15	8.95	—
w21(E)	24	#15	9.66	—
Test Pile			Each	2
Excavation, Foundation, Unclassified			m ³	728
Concrete, A, Substructure			m ³	409.3
Reinforcing Bars, Epoxy Coated			kg	23,790
Pile, Concrete, Steel Shell Encased, 6.35 mm, 356 mm			m	1,220.0
Threaded Tie Bar Assembly, Epoxy Coated			Each	100

**PIER 1 AND 2 - WESTBOUND
BILL OF MATERIAL**

Bar	No.	Size	Length (m)	Shape
h26(E)	24	#15	9.56	—
h27(E)	120	#15	9.27	—
h28(E)	16	#15	5.37	—
h29(E)	8	#15	7.49	—
h30(E)	8	#15	6.98	—
n20(E)	312	#25	2.15	U
p22(E)	14	#25	2.43	—
p24(E)	42	#25	10.02	—
p25(E)	42	#25	9.63	—
s20(E)	89	#15	3.78	□
s21(E)	10	#15	2.28	□
s22(E)	36	#15	2.08	□
s23(E)	204	#15	2.50	□
s24(E)	212	#20	5.20	□
s25(E)	212	#20	4.74	□
s27(E)	10	#15	2.43	□
s29(E)	89	#15	4.10	□
s30(E)	79	#15	2.20	□
s31(E)	79	#15	2.35	□
t20(E)	190	#25	3.10	—
u20(E)	8	#20	2.38	C
u21(E)	8	#20	2.53	C
v20(E)	156	#25	3.03	—
v21(E)	156	#25	3.43	—
v22(E)	132	#25	1.26	U
w22(E)	72	#15	9.44	—
Excavation, Foundation, Unclassified			m ³	678
Concrete, A, Substructure			m ³	416.5
Reinforcing Bars, Epoxy Coated			kg	24,130
Pile, Concrete, Steel Shell Encased, 6.35 mm, 356 mm			m	1,252.0



BARS s21(E), s22(E), s23(E), s24(E), s25(E), s27(E), s28(E), s30(E) or s31(E)

BAR DIMENSIONS

Bar	'A'	'B'
s20(E)	950	800
s21(E)	740	800
s22(E)	640	800
s23(E)	900	700
s24(E)	2.20 m	800
s25(E)	1.97 m	800
s26(E)	950	950
s27(E)	740	950
s28(E)	640	950
s29(E)	960	950
s30(E)	700	800
s31(E)	700	950

DESIGNED	BHS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

NOTES:
Reinforcement bars designated (E) shall be epoxy coated.
All dimensions are in millimeters (mm) except as noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.L. ROUTE 80/94 (BORMAN EXPRESSWAY)
OVER HOHMAN AVENUE

PIER DETAILS
SECTION 2626.2-R-2
LAKE COUNTY, INDIANA
STATION 8 + 225.132
STRUCTURE NO. I-80-1-8459 (EB & WB)
DATE 09/05 (016-1001 & 016-1002)

AMERICAN
CONSULTING ENGINEERS