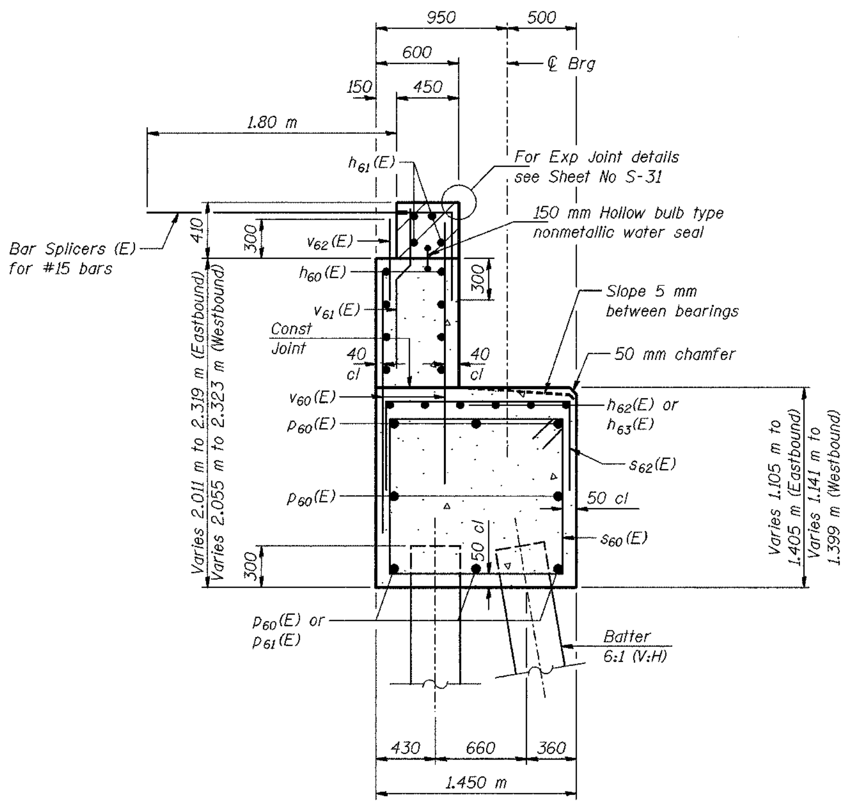
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80/94	2626.2-R-2	LAKE COUNTY, INDIANA	452	285
		ILLINOIS	FED. AID PROJECT-	

SHEET NO. S-53
72 SHEETS

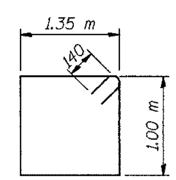
CONTRACT NO. 62113 INDOT DES. NO. 0100987



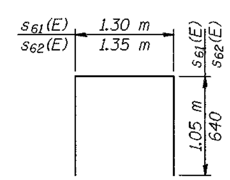
SECTION THRU ABUTMENT

PILE DATA

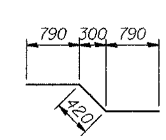
Type - 356 ϕ Metal Shell
Capacity - 266 kN
Est Length - 20.0 m
No Reqd - 55
Test Piles - 1



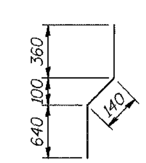
BAR s_{60}(E)



BARS s_{61}(E) and s_{62}(E)



BAR p_{62}(E)



BAR v_{61}(E)

EAST ABUTMENT BILL OF MATERIAL

PHASE 2

Bar	No.	Size	Length (m)	Shape
h_{60}(E)	16	#15	6.97	——
h_{61}(E)	8	#20	7.05	——
h_{62}(E)	6	#15	6.68	——
h_{63}(E)	6	#15	1.54	——
h_{64}(E)	6	#15	0.64	——
h_{65}(E)	4	#15	1.00	——
p_{60}(E)	16	#25	7.42	——
p_{61}(E)	3	#25	1.79	——
p_{62}(E)	3	#20	2.00	⌐_
s_{60}(E)	35	#15	4.98	◳
s_{61}(E)	14	#15	3.40	⊓
s_{62}(E)	27	#15	2.63	⊓
v_{60}(E)	92	#15	1.91	——
v_{61}(E)	46	#15	1.14	⌇
v_{62}(E)	46	#15	0.60	——

Test Pile, 356 mm	Each	1
Structure Backfill	m^3	56
Excavation, Foundation, Unclassified	m^3	43
Concrete, A, Substructure	m^3	32.1
Reinforcing Bars, Epoxy Coated	kg	1,760
Pile, Concrete, Steel Shell Encased, 6.35mm, 356 mm	m	260.0
Surface Seal (Estimated)	m^2	13
Threaded Tie Bar Assembly, Epoxy Coated	Each	61

PHASE 3

Bar	No.	Size	Length (m)	Shape

Test Pile, 356 mm	Each	
Structure Backfill	m^3	
Excavation, Foundation, Unclassified	m^3	
Concrete, A, Substructure	m^3	
Reinforcing Bars, Epoxy Coated	kg	
Pile, Concrete, Steel Shell Encased, 6.35mm, 356 mm	m	
Surface Seal (Estimated)	m^2	
Threaded Tie Bar Assembly, Epoxy Coated	Each	

NOTES:

Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap.

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete, C, Superstructure.

Reinforcement bars designated (E) shall be epoxy coated.

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

All edges shall have standard 20 mm chamfers except as noted.

MINIMUM BAR LAPS

#15 bars = 640
#20 bars = 790
#25 bars = 1320

DESIGNED	BHS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

PHASE 3 FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (BORMAN EXPRESSWAY)
OVER LITTLE CALUMET RIVER & N.I.C.T.D. R.O.W.

EAST ABUTMENT DETAILS
SECTION 2626.2-R-1
LAKE COUNTY, INDIANA
STATION 8+470.000
STRUCTURE NO. I-80-1-8460 (EB & WB)
DATE 07/04 **(016-I003 & 016-I004)**

AMERICAN CONSULTING ENGINEERS

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