

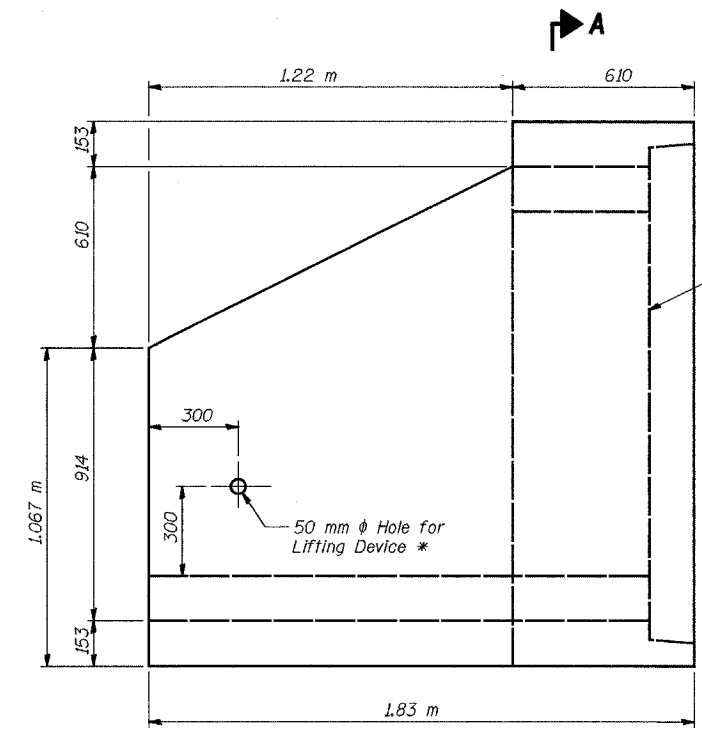
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19R-1	LAKE	800	556
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

60997

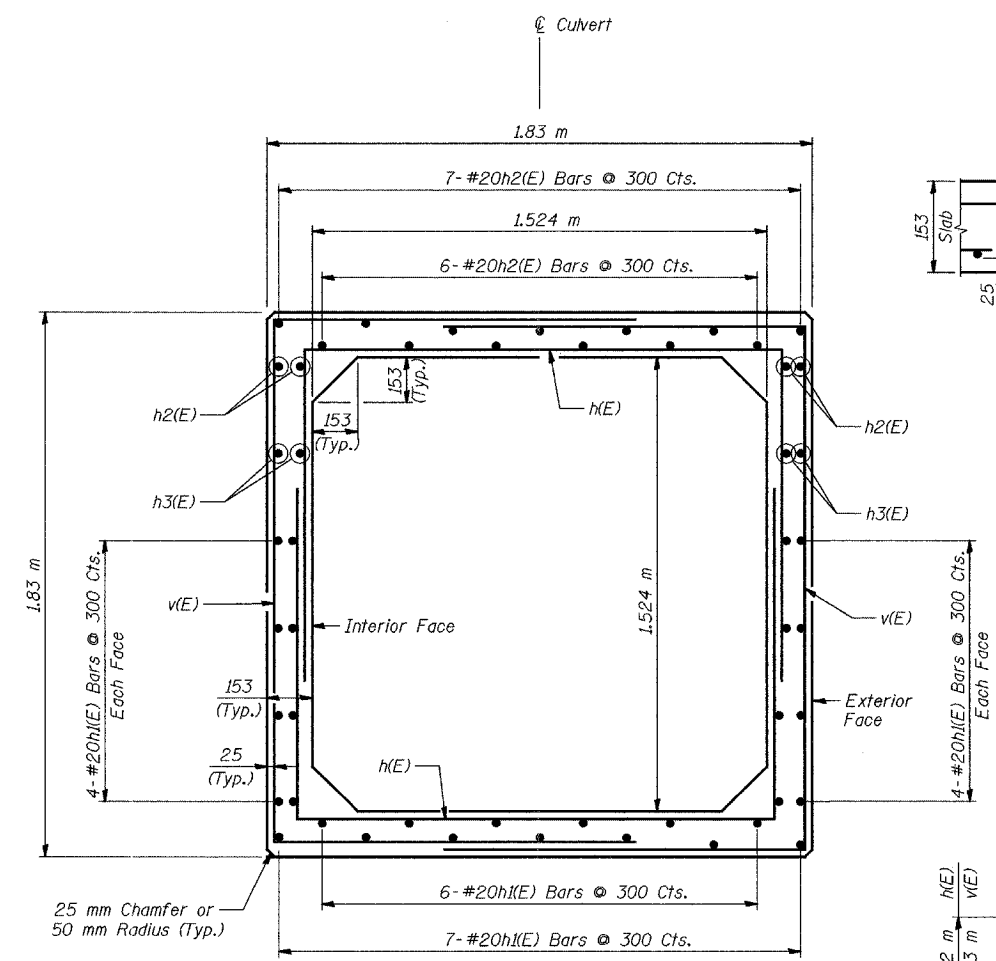
BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	60	#15	3.98	□
h1(E)	179	#20	1.73	□
h2(E)	17	#20	0.55	□
h3(E)	4	#20	1.13	□
h4(E)	4	#20	1.5	□
h5(E)	2	#20	0.8	□
h7(E)	1	#20	3.42	□
h8(E)	1	#20	3.72	□
h9(E)	1	#20	4.02	□
h10(E)	1	#20	4.52	□
h11(E)	1	#20	4.82	□
v(E)	60	#15	4.38	□
v1(E)	1	#20	3.82	□
v2(E)	1	#20	4.12	□
v3(E)	1	#20	4.42	□
v4(E)	1	#20	4.72	□
v5(E)	1	#20	5.02	□
Reinforcement Bars (Epoxy Coated)			kg	*1,820
Precast Concrete Box Culvert			m	7.32
Box Culvert End Sections			Each	1

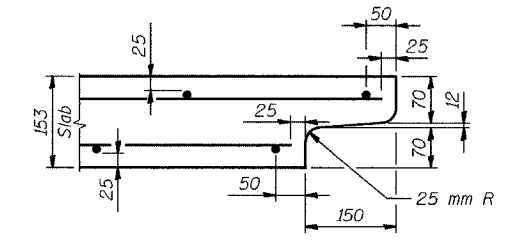
* See Note # 8.



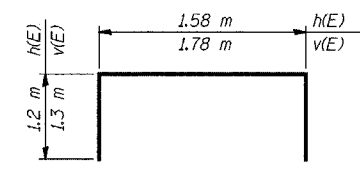
ELEVATION



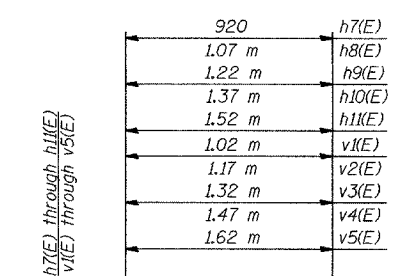
SECTION A-A



DETAIL C

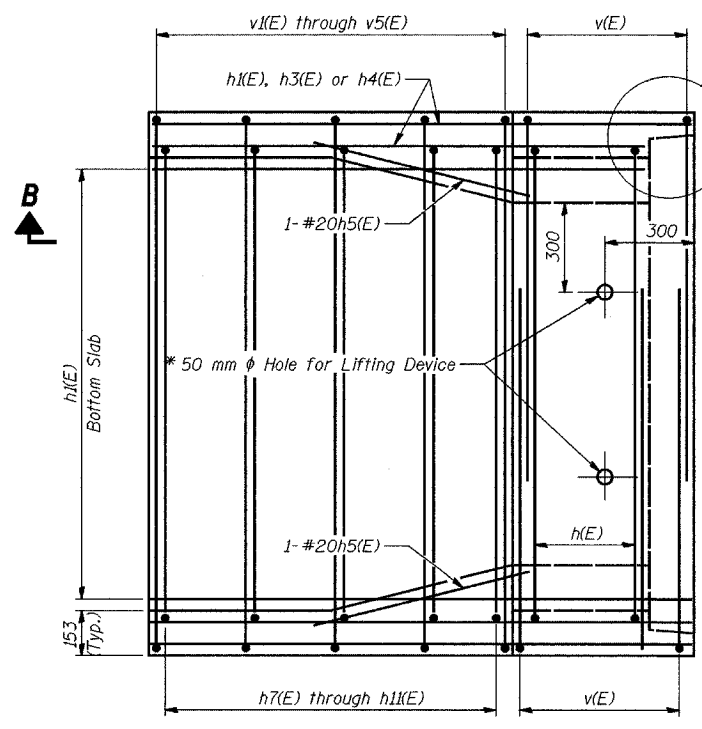


Bars h(E) and v(E)

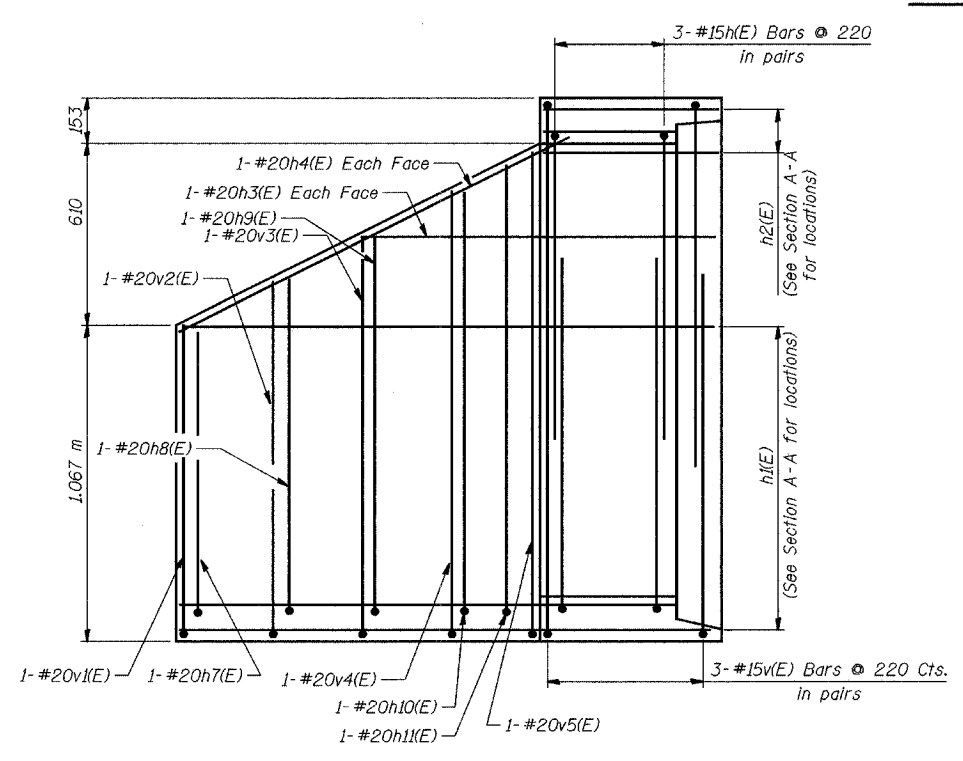


Bars v1(E) through v5(E) & h7(E) through h11(E)

* Place Lifting Holes to avoid Reinforcement



PLAN



SECTION B-B

NOTES:

1. Work this Sheet with Sheets 1 and 2.
2. Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications.
3. The minimum concrete strength shall be 35 MPa.
4. Lifting holes shall be filled with concrete plugs and mastic after box culverts are in place.
5. Reinforcement Bars designated (E) shall be epoxy coated.
6. All dimensions are in millimeters (mm) except as noted.
7. Min. Lap for bars #15 is 640 mm and for #20 bars is 790 mm.
8. The cost of the reinforcement is included in pay items Precast Concrete Box Culverts and Box Culvert End Sections.
9. The quantity of the Porous Granular Embankment is included in the total quantity of Porous Granular Embankment for the Temporary Runaround.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ILLINOIS ROUTE 22
 FROM US RTE 12 TO BUESCHING RD
 CULVERT EXTENSION AT STA. 32+492.29
 TYPICAL CULVERT END SECTION DETAILS
 SCALE : NTS
 DATE : 05/21/04
 DESIGNED BY EV
 CHECKED BY NPP