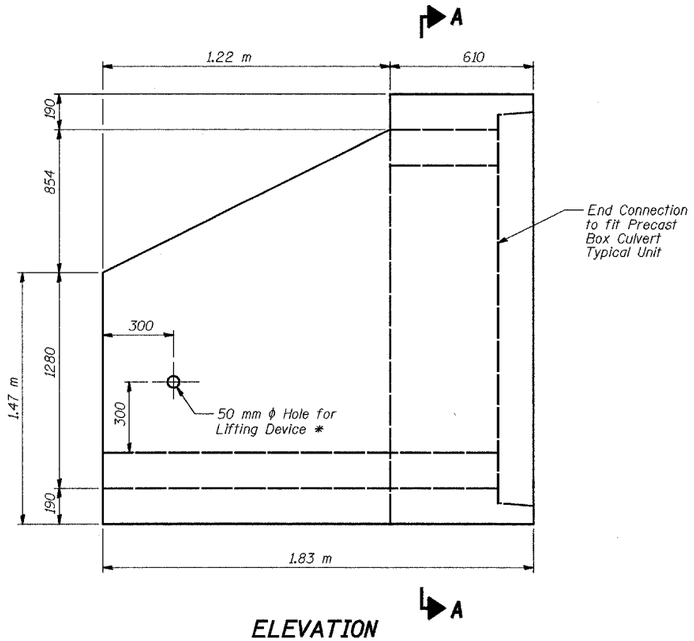
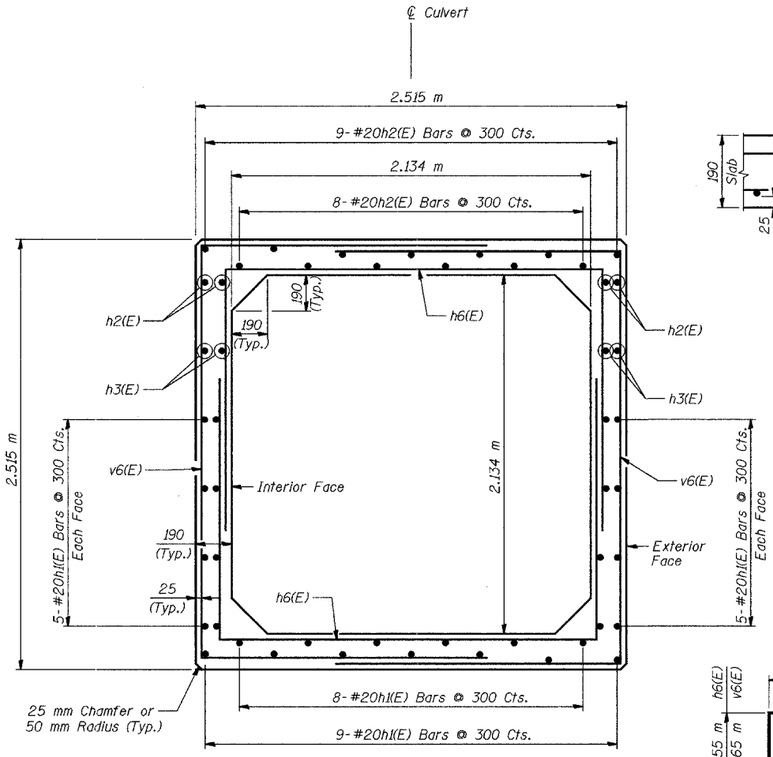
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19R-1	LAKE	800	559
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

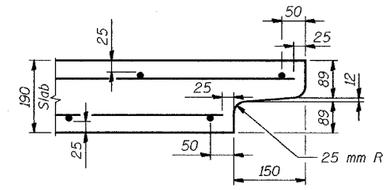
60997



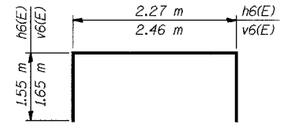
ELEVATION



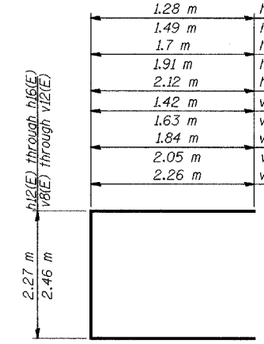
SECTION A-A



DETAIL C



Bars h6(E) and v6(E)

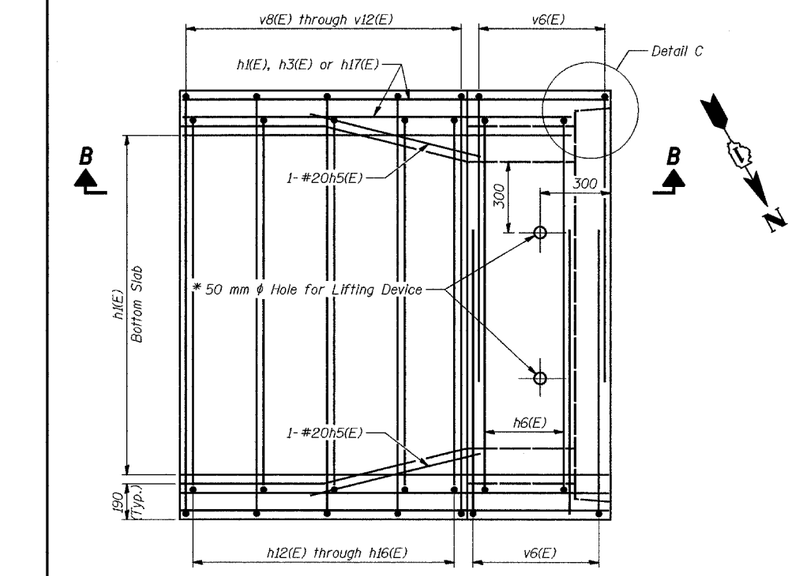


Bars v8(E) through v12(E) & h12(E) through h16(E)

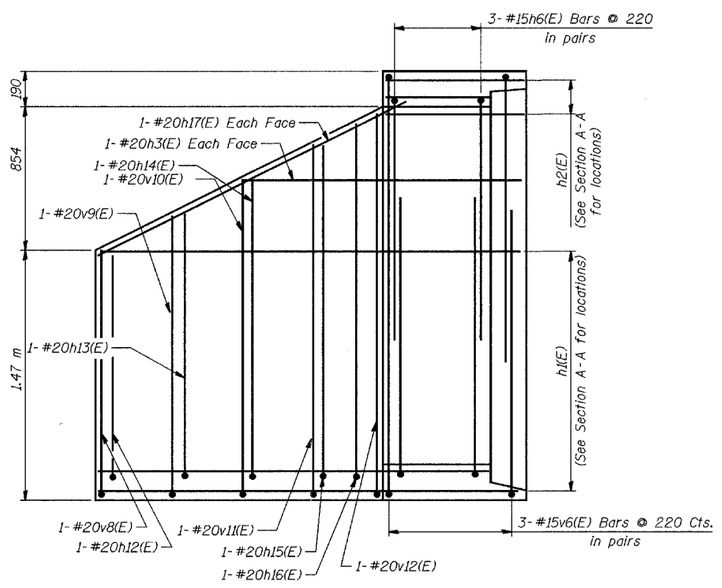
BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h6(E)	42	#15	5.37	
h1(E)	169	#20	1.73	
h2(E)	21	#20	0.55	
h3(E)	4	#20	1.13	
h17(E)	4	#20	1.63	
h5(E)	2	#20	0.8	
h12(E)	1	#20	4.83	
h13(E)	1	#20	5.25	
h14(E)	1	#20	5.67	
h15(E)	1	#20	6.09	
h16(E)	1	#20	6.51	
v6(E)	42	#15	5.76	
v8(E)	1	#20	5.3	
v9(E)	1	#20	5.72	
v10(E)	1	#20	6.14	
v11(E)	1	#20	6.56	
v12(E)	1	#20	6.98	
Reinforcement Bars (Epoxy Coated)		kg	* 1,760	
Precast Concrete Box Culvert		m	5.49	
Box Culvert End Sections		Each	1	

* See Note # 8.



PLAN



SECTION B-B

NOTES:

1. Work this Sheet with Sheets 4 and 5.
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 sections 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+754.940

TYPICAL CULVERT END SECTION DETAILS

SCALE : NTS — DESIGNED BY EV

DATE : 05/21/04 — CHECKED BY NPP