



Contract Item:
Intake, RA-46.

- ① Use standard utility access ring and cover (RA-55 Type 1, Light Duty)
 - ② 'ED' joint. Refer to Standard Road Plan RH-52 for details.
 - ③ (6) 1 1/4" smooth dowel bars in insert and 6 dowel bars in concrete barrier per installation.
 - ④ 2' on grade, 4' at low point.
 - ⑤ Trowel smooth and place subgrade paper to prevent bond.
- Placing sequence: 1. Base; 2. Walls; 3. Top; 4. Insert.

REINFORCING BAR LIST							
MARK	SIZE	LOCATION	SHAPE	NO.	LENGTH	WEIGHT	SPACING
a1	4	Base		5	5'-0"	16.7	1'-3"
a2	4	Base		5	5'-0"	16.7	1'-3"
b1	4	Top		3	3'-4"	6.7	See Detail
b2	4	Top		2	5'-0"	6.7	See Detail
c1	4	Insert		6	11'-1"	44.4	See Detail
					13'-1"	52.4	
				Total		91 lbs.	99 lbs.

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN RA-46

REVISION: Change 'EE' Joints to 'ED' Joints and remove notes covered in the Specifications Book.

REVISION NO. 2

REVISION DATE 04-19-05

APPROVED BY DESIGN METHODS ENGINEER
William J. Allen

INTAKE FOR
HALF SECTION BARRIER
(With Utility Access)