DETAIL OF SURVEY MONUMENT COVER ASSEMBLY

-CAPTURED SCREW

%" (5) HOLE

TO BE INSTALLED IN ALL PAVEMENT TYPES FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S) AND LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)

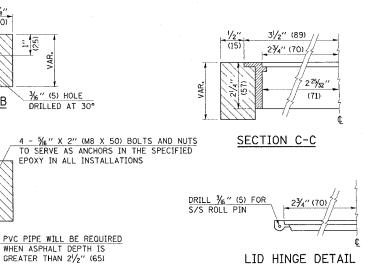
SECTION COUNTY TOTAL SHEETS NO. 711 115(BY,BY-1)BR VERMILION 93 FED. ROAD DIST, NO. 7 ILLINOIS FED. AID PROJECT CONTRACT NO. 90843

TWO-COMPONENT EPOXY SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) INSIDE OF 8" (200) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DIAMETER CORE HOLE SEE LID HINGE DETAIL DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD SPECIAL UNIFORM 1" (25 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; 8" (200) DIAMETER MAGNESTUM 6.5-7.5%. STRENGTH: YIELD - 19.000-21.000 PSI (131-145 MPg): TENSILE - 38,000-44,000 PSI (262-303 MPd); ELONGATION - 10-15% IN CORE HOLE 4-BOLT HOLES 3/8" (10) DIAMETER 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; QQ-A-601Es. NO EXCEPTIONS. ACCESS COVER TO BE DRILLED IN THE FIELD PLAN LEGEND PROVIDE 1/16" (2) CLEARANCE AROUND LID

ALUMINUM CASTING

- 5" (125) OR 6" (150) P.V.C. PIPE

- TWO-COMPONENT EPOXY



GENERAL NOTES

1. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.

(138)

SEC. D-D

71/4"(184)

51/2" (140)

5% (141)

SEC. D-D

ELEVATION

SEC. A-A

MIN.

3/8" (10)

SEC. A-A

EXISTING SURVEY MONUMENT

TO BE PROTECTED

OUTSIDE OF 8" (200) DIA. CORE HOLE

PROPOSED RESURFACING E

EXIST. SURFACE-

SEC. B-B

SEC. B-B

- 2. THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
- 3. MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
- 4. ALL SURVEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
- 5. ALUMINUM CASTING SHALL BE PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE WHEN AN INCREASE IN HEIGHT IS REQUIRED.
- 6. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
- 7. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MONUMENT COVER ASSEMBLY WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING THE NEW PAVEMENT SURFACE AND EPOXY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

BILL OF MATERIAL

ALLIMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 4 EACH - 16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).

	NAME	DATE	REVISIONS	
DESIGNED	A.W.H.	2-28-91	NAME	DATE
CHECKED	J.H.M.	2-28-91	D.L.P.	10/96
CADD NO.	D-I.04		K.A.G.	08/04

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

DECATUR, ILLINOIS

REVISIO		ILLINOIS DEPARTMENT OF TRANSPORTATION			
NAME	DATE	TELINOIS DEFARTMENT OF TRANSFORTATIO) N		
		ROADWAY DETAILS			
		NOADWAT DETAILS			
		DRAWN BY MLO)		
		DATE 12/03 CHECKED BY S	JK		
ANI 115/5	V DV	ANDD VEDMILION COL	INITY		