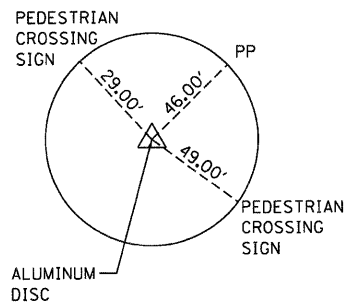


**MONUMENT NO. 11**

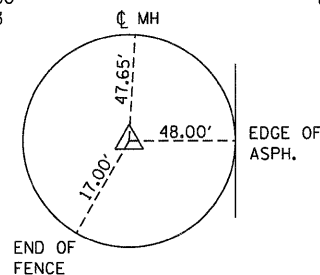
MRB (U.S. FOOT)  
 (PROJECT COORDINATE)  
 N = 14,048,411.5720  
 E = 2,449,306.9042  
 ELEV. = 414.02



DESCRIPTION:  
 SET IN THE BACK OF A 4.5' CONCRETE WALK (END OF WALK), LOCATED ON THE WEST SIDE OF ILLINOIS ROUTE 3 APPROXIMATELY 0.3 MILES SOUTH OF CANAL STREET. (BROOKLYN)

**MONUMENT NO. 8**

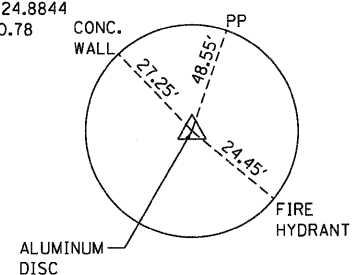
MRB (U.S. FOOT)  
 (PROJECT COORDINATE)  
 N = 14,045,393.2950  
 E = 2,451,580.4763  
 ELEV. = 401.95



DESCRIPTION:  
 SET IN THE SOUTH END OF A HEADWALL TO A BOX CULVERT UNDER ILLINOIS ROUTE 3, 0.7 MILES SOUTH OF CANAL STREET, 0.1 MILES SOUTH OF INDUSTRIAL DRIVE AND NORTH OF SINGLE RAILROAD TRACK.

**MONUMENT NO. 10**

MRB (U.S. FOOT)  
 (PROJECT COORDINATE)  
 N = 14,042,385.4974  
 E = 2,454,724.8844  
 ELEV. = 420.78



DESCRIPTION:  
 SET IN THE CONCRETE MEDIAN ON THE EAST SIDE OF ROUTE 3 (ST. CLAIR AVE.) BETWEEN TWO RAILROAD BRIDGES, APPROXIMATELY 0.1 MILE SOUTH OF 1ST STREET (IN FRONT OF 301 ST. CLAIR AVE. WAREHOUSE & STORE FIXTURE CO.)

**COORDINATE SYSTEM**

THE MISSISSIPPI RIVER BRIDGE (MRB) PROJECT COORDINATE SYSTEM IS BASED ON A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM. THE MRB PROJECT COORDINATE SYSTEM HAS CONVERTED FROM UTM ZONE 15 NORTH BY AN AVERAGE PROJECTION FACTOR AND ALSO CONVERTED FROM METERS TO U.S. SURVEY FEET.

**HORIZONTAL DATUM**

THE DATUM USED IS NAD-83  
 THE MRB PROJECT COORDINATES HAVE BEEN TRANSFORMED FROM UTM BY USING AN AVERAGE PROJECTION FACTOR IN THE PROJECT AREA.

AVERAGE GRID FACTOR = 1.000339495  
 PROJECTION FACTOR = 1/GRID = 0.999660620

THE BASE POINT THAT ALL UTM COORDINATES WERE SCALED FROM WAS THE CENTRALLY LOCATED MONUMENT NO. 10. EACH VECTOR FROM MONUMENT NO. 10 TO ALL OTHER MONUMENTS WAS MULTIPLIED BY THE PROJECTION FACTOR TO CALCULATE A SURFACE VECTOR AND THEN THIS SURFACE VECTOR WAS USED TO CALCULATE THE SURFACE COORDINATE (MRB). (NOTE: 1 METER EQUALS 3.28083333 U.S. SURVEY FOOT).

UTM ZONE 15 NORTH (METERS) = PROJECTED GRID COORDINATES  
 MRB (FEET) = PROJECT SURFACE COORDINATES

**VERTICAL DATUM**

THE DATUM USED IS NAVD 1988

FILE NAME =	USER NAME = \$USER\$	DESIGNED - JB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENTS, TIES &amp; BENCHMARKS 7</b>	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN - JB	REVISED -			998	82-1A	ST. CLAIR	190	23	
	PLOT SCALE = \$SCALE\$	CHECKED - ACL	REVISED -			CONTRACT NO. 76C41					
	PLOT DATE = \$DATE\$	DATE - 02/04/11	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				I-70 CONNECTION		SCALE: 1"=500'		SHEET NO. OF SHEETS		STA. TO STA.	

\DBCONN-99-MOTIFL.DGN, \DBCONN-99-BORERL.DGN, \DBCONN-99-LAYUTL.DGN, \DBCONN-99-ALIGNMENT2.DGN, \DBCONN-99-MOTIFL.DGN  
 2-04-2011, 15:55:22  
 \F5-0244\AKVAULT\TRANS.07\2202\20868-001\CIVIL\CAD\99 ALL CONTRACTS\CONNSHEETS CONTRACT 95\08CONN-96-SHT-ALIGN\TIEB7.DGN  
 BENDHJLD

