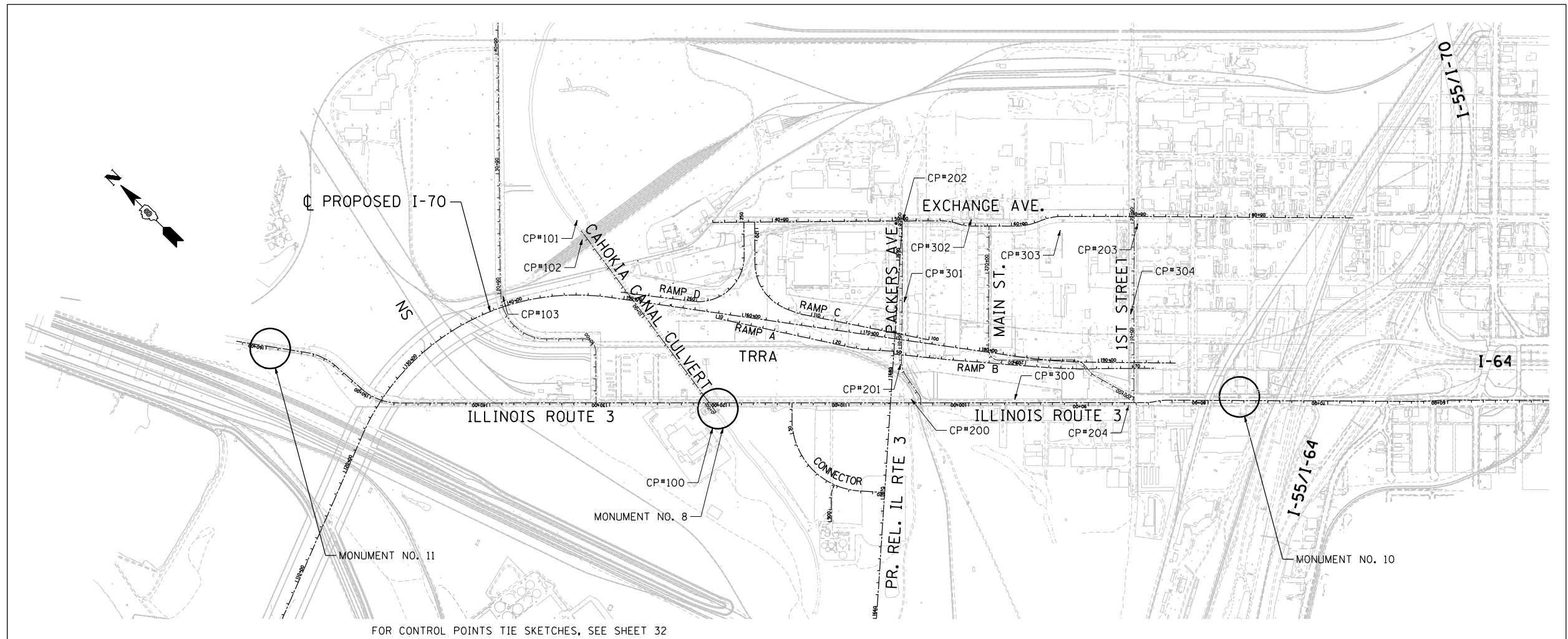
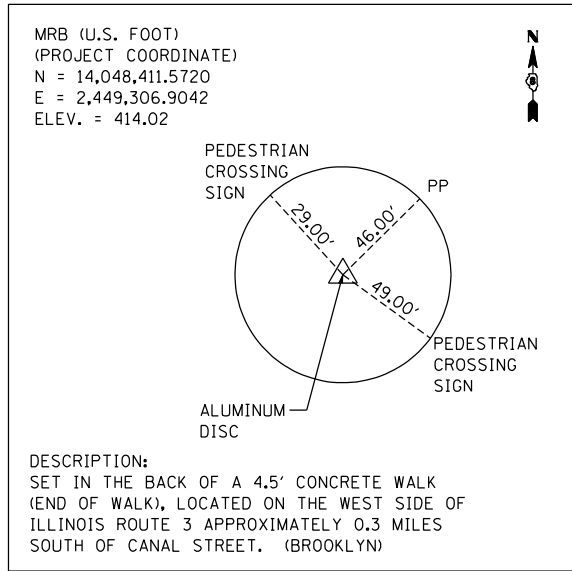


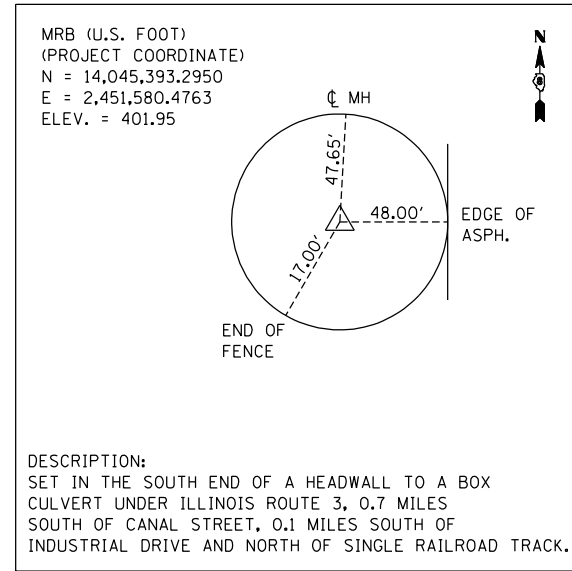
\\DBCONN-99-MOTIF.LDGN; \\DBCONN-99-LAYOUT1.LDGN; \\DBCONN-99-ALIGNMENT2.DGN; \\DBCONN-11-MOTIF.LDGN; \\DBCONN-08-MOTIF.LDGN; \\DBCONN-11-ALIGNMENT3.DGN  
 12-17-2012 14:08:13 BONDHUJO \\FS-004\AM\VALD.LD TRANS.07\2202\28888-001\CIVIL\CAO\99 ALL CONTRACTS\CONNS\SHEETS CONTRACT 17 DBCONN-17-SHT-ALIGNMENT4.DGN



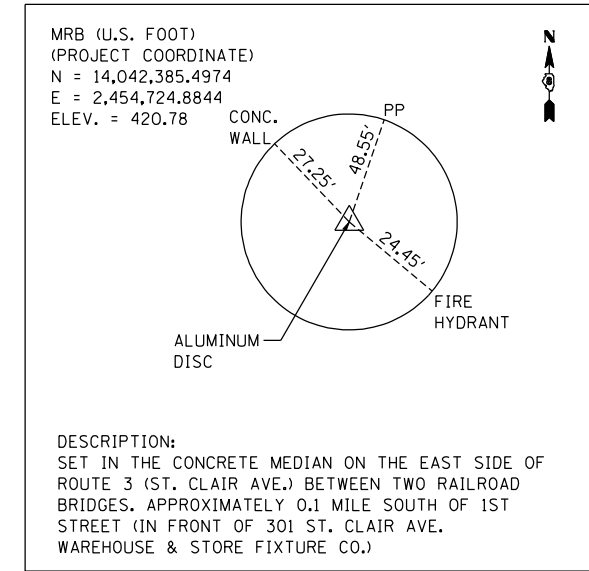
**MONUMENT NO. 11**



**MONUMENT NO. 8**



**MONUMENT NO. 10**



**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> I-70 CONNECTION	<b>ALIGNMENTS, TIES &amp; BENCHMARKS 10</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN - JB	REVISED -			998	82-2-1LS	ST. CLAIR	71	15	
	PLOT SCALE = \$SCALE*	CHECKED - ACL	REVISED -			CONTRACT NO. 76F39					
	PLOT DATE = \$DATE*	DATE - 12/21/12	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: 1"=500'		SHEET NO. 10 OF 10 SHEETS		STA. TO STA.							

