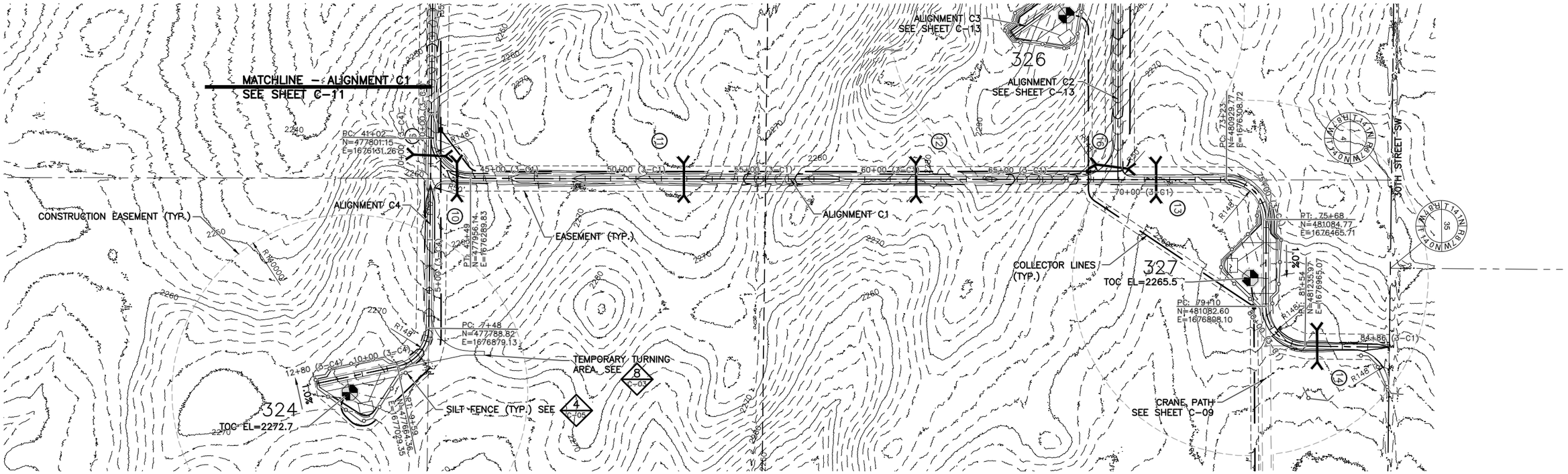
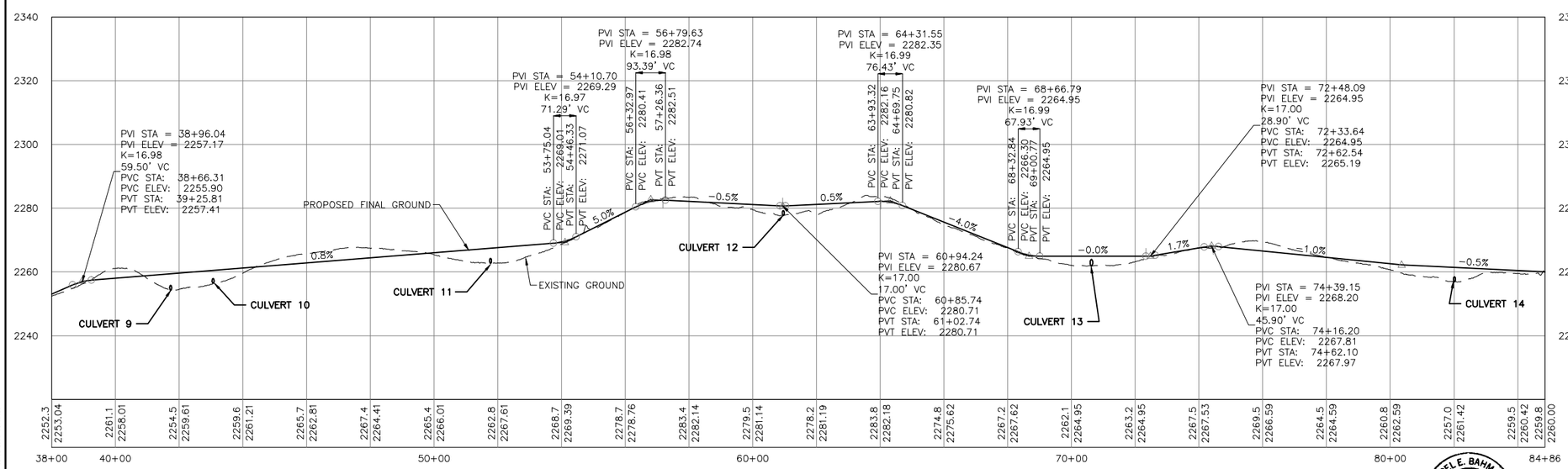


1 PLAN: ALIGNMENT C1 AND C4

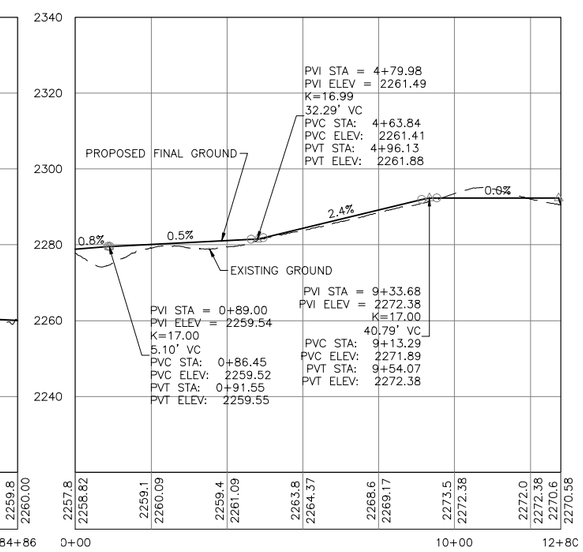
0 200 400
SCALE IN FEET



2 PROFILE: ALIGNMENT C1

0 200 400
SCALE IN FEET
HORIZONTAL

0 20 40
SCALE IN FEET
VERTICAL



3 PROFILE: ALIGNMENT C4

JOEL E. BAHMA
REGISTERED
PROFESSIONAL
PE 4904
ENGINEER
NORTH DAKOTA

09/30/11 FOR CONSTRUCTION

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	KKB	CAD	JXB	07/15/11	60 PERCENT SUBMITTAL
B	CAD	CAD	JXB	09/02/11	90 PERCENT SUBMITTAL
0	CAD	CAD	JXB	09/30/11	ISSUED FOR CONSTRUCTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NORTH DAKOTA.

SIGNATURE Joel E. Bahma
PRINTED NAME JOEL E. BAHMA
DATE 09/30/2011 REG. NO. 4904

RELEASED TO/FOR	A	B	C	0	1	2	3
CLIENT	07/15/11	09/02/11					
BID							
CONSTRUCTION				09/30/11			
PERMITTING							
RECORD							

DATE RELEASED

BARR

Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

Project Office:
BARR ENGINEERING CO.
4700 WEST 77TH STREET
MINNEAPOLIS, MN.
55435-4803
Ph: 1-800-632-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	07/05/11
Drawn	KKB
Checked	JXB
Designed	CAD
Approved	JXB

minnesota power AN ALLETE COMPANY

Bison

A WIND ENERGY INITIATIVE OF MINNESOTA POWER IN NORTH DAKOTA

BISON 3 WIND PROJECT
MORTON & OLIVER COUNTIES, NORTH DAKOTA

PLAN AND PROFILE – ALIGNMENTS C1 STA. 38+00 TO 84+86 – C4 STA 0+00 TO 12+80

BARR PROJECT No. 34/30-1006
CLIENT PROJECT No.
DWG. No. C-12
REV. No. 0

Initial Release: 14310106-BASE-C1D-DESIGN-RIGHTS-BRS-DR 3.dwg R:\Design\34311006.01\34301006-BASE-Cadaerial.dwg R:\Design\34311006.01\34301006-BASE-EASEMENTS.dwg
Last Revision: 14310106-BASE-C1D-DESIGN-RIGHTS-BRS-DR 3.dwg R:\Design\34311006.01\34301006-BASE-TURBINES.dwg R:\Design\34311006.01\34301006-BASE-CONSTRAINTS.dwg R:\Design\34311006.01\34301006-BASE-COLLECTORS.dwg R:\Design\34311006.01\34301006-BASE-Easements.dwg
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