

EAST MALL DRIVE COMPUTED ALIGNMENT

PI #	STATION	NORTHING	EASTING	ANGLE	DISTANCE (FT)
WOP	0+71.45	661161.45A1	1219048.2566	SE87.573287	3385.95
1	32+34.50	661092.7436	1219152.2078	SE59.082862	2242.14
2	54+65.70	6599.74979	1215284.8784	SE78.015223	2679.87
3	81+38.05	660261.7589	1217004.4955	SE59.161756	1379.85
4	99+06.59	658659.2781	1218209.5711	SE56.172665	824.25
5	103+31.14	658301.5732	1218382.7637	SE84.501873	636.1
6	110+06.48	657504.0932	1220433.4867	SE83.175886	635.92
7	116+58.33	657429.8236	1221065.0249	NE84.315349	1679.15
8	130+76.64	657618.6211	1222925.3415	SE37.596718	2818.37

PI#	STATION	NORTHING	EASTING
PC	23+42.98	665091.25	1217891.00
PT	37+02.15	660661.42	1213774.00
PI	31+34.30	661073.75	1213322.21
PC	23+42.98	665091.25	1217891.00
PT	37+02.15	660661.42	1213774.00
PI	31+34.30	661073.75	1213322.21
PC	23+42.98	665091.25	1217891.00
PT	37+02.15	660661.42	1213774.00
PI	31+34.30	661073.75	1213322.21

PI# 3 CURVE DATA	STATION	NORTHING	EASTING
IC =	18.511961	PC 50+49.37	662111.35 1214927.37
DC =	2.170904	PI 54+65.70	659977.50 1215284.88
TC =	2.171314	PT 58+74.80	659431.10 1215265.43
T =	316.07		
R =	2500		
L =	625.63		
C =	821.88		
E =	34.45		
M =	34.9		

PI# 5 CURVE DATA	STATION	NORTHING	EASTING
IC =	15.433597	PC 77+35.64	664442.25 1217553.23
DC =	2.173269	PI 81+38.05	659361.76 1217805.50
TC =	2.173114	PT 85+42.94	659151.33 1218260.97
T =	412.23		
R =	2500		
L =	871.1		
C =	873.47		
E =	33.76		
M =	33.3		

PI# 6 CURVE DATA	STATION	NORTHING	EASTING
IC =	1.990389	PC 97+48.05	658172.48 1219002.55
DC =	1.084563	PI 95+06.86	656526.39 1219089.57
TC =	1.084236	PT 97+24.00	658254.97 1219259.74
T =	317.61		
R =	5000		
L =	454.95		
C =	434.91		
E =	4.73		
M =	4.73		

PI# 5 CURVE DATA	STATION	NORTHING	EASTING
IC =	27.671184	PC 87+24.00	658464.37 1218285.74
DC =	2.173559	PI 90+31.14	658301.58 1218262.76
TC =	2.173114	PT 109+15.21	657816.82 1220196.08
T =	507.14		
R =	2500		
L =	1193.27		
C =	1173.07		
E =	72.67		
M =	70.61		

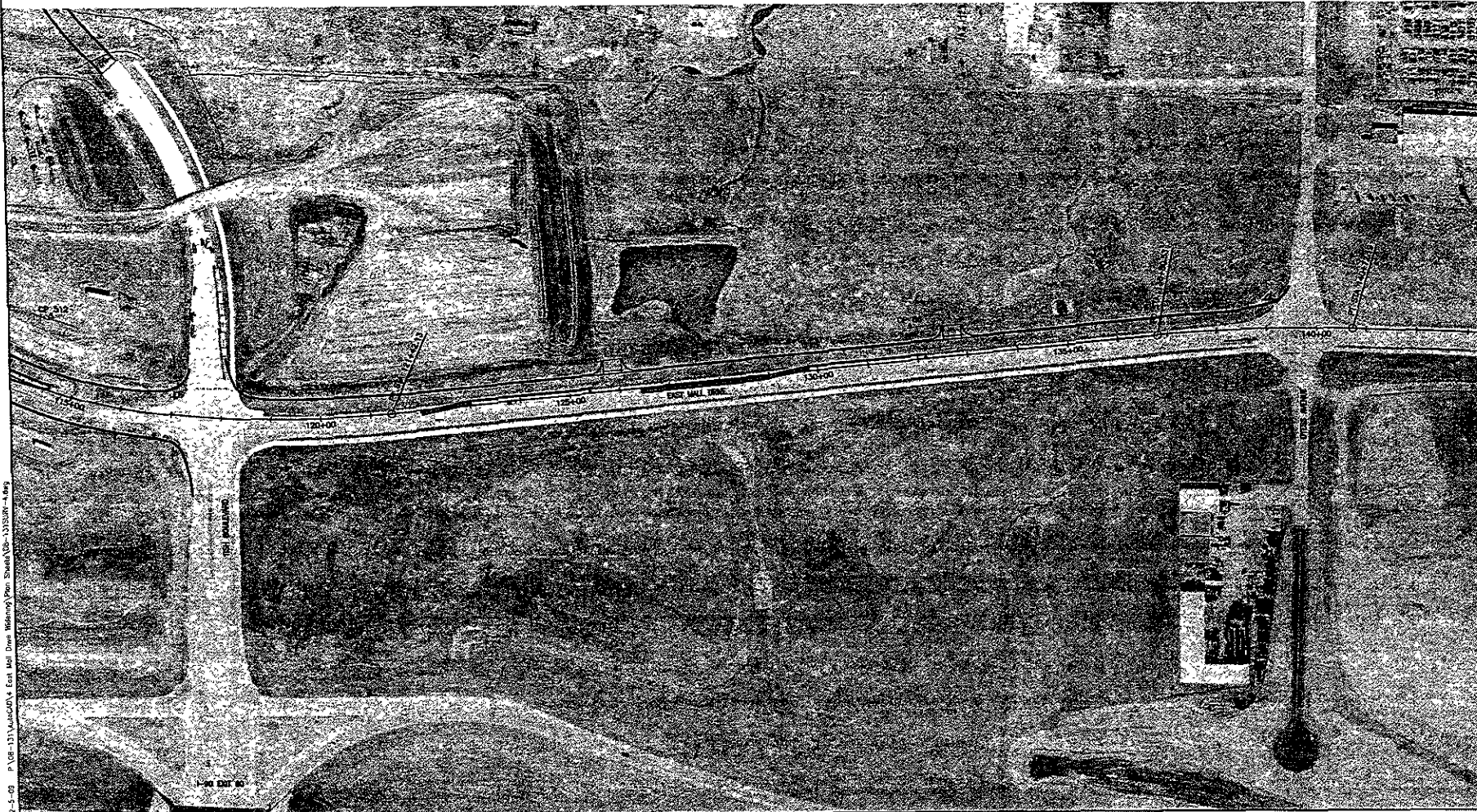
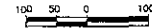
PI# 6 CURVE DATA	STATION	NORTHING	EASTING
IC =	40.181915	PC 70+15.21	657416.52 1220196.02
DC =	6.15428	PI 110+06.48	657504.69 1220433.45
TC =	6.155384	PT 118+15.88	657458.06 1220822.06
T =	91.23		
R =	315		
L =	738.48		
C =	719.28		
E =	30.15		
M =	23.89		

PI# 7 CURVE DATA	STATION	NORTHING	EASTING
IC =	12.110965	PC 118+64.89	667458.49 1220822.06
DC =	2.3	PI 116+09.23	657429.82 1221065.02
TC =	2.300272	PT 121+42.13	667453.19 1221308.55
T =	244.54		
R =	2251.83		
L =	487.44		
C =	486.52		
E =	13.02		
M =	12.95		

PI# 8 CURVE DATA	STATION	NORTHING	EASTING
IC =	7.126371	PC 138+43.53	657600.99 1223810.92
DC =	1.643549	PI 138+76.64	657618.82 1223835.13
TC =	1.643581	PT 140+72.19	657611.97 1223231.12
T =	196.11		
R =	3000.00		
L =	391.86		
C =	391.38		
E =	6.40		
M =	6.39		

CONTROL POINT NO	MONUMENTATION	NORTHING	EASTING	ELEVATION
86	SET 5"X 7" REBAR	657620.62	122345.77	3169.84
515	ALUMINUM CAP	659472.22	1218308.93	3243.77
517	ALUMINUM CAP	660283.82	121444.342	3242.50

COORDINATES SHOWN ARE BASED ON THE SOUTH DAKOTA STATE PLANE COORDINATE SYSTEM - SOUTH ZONE, NAD 83(95).  
ELEVATIONS ARE BASED ON NGVD 29.



**Ferber Engineering, Inc.**  
Company, Inc.  
1000 W. 10th St., Suite 100  
Sioux Falls, SD 57105  
Tel: 605.336.1111  
Fax: 605.336.1112

NOT FOR CONSTRUCTION

Scale	AS SHOWN
Designed By	Drawn By
ADP	DSE
Design Date	Print Date
OCT 2008	02-5-09
Revised and Inc	
JOS-131	
Surveyed By	Survey Date
SLA	AUG 2008
Revisions	

Sheet Title:  
**HORIZONTAL ALIGNMENT AND SURVEY CONTROL SHEET**

Scale:  
5 of 29