230 kV Wishek Line
Terminal Addition

HESKETT 230KV LINE
B A C
LA
CVT
7246
7245
LOW SWITCH WITH GROUND SWITCH
CT
HIGH BUS
7252
HIGH SW 7251
HIGH SW 7253
HIGH SW 7256
LOW SW 7247
LOW SW 7257
7248
7258
LOW BUS
LOW SW 7249
LOW SW 7259
CVT
LOW BUS
HIGH BUS
LOW BUS
HIGH BUS
LOW BUS
CVT
HIGH BUS
HIGH BUS
LOW SW 7204
LOW SW 7214
LOW SW 7234
LOW SW 7244
LOW BUS
7203
7213
7233
7243
LOW BUS
LOW SW 7202
LOW SW 7212
LOW SW 7232
LOW SW 7242
HIGH BUS
HIGH BUS
B
A
C
7207
7237
HIGH SW 7206
HIGH SW 7208
HIGH SW 7236
HIGH SW 7238
CT
CT
CT
7201
7200
LOW SWITCH WITH GROUND SWITCH
7211
7210
LOW SWITCH WITH GROUND SWITCH
7231
7230
LOW SWITCH WITH GROUND SWITCH
7231
7230
LOW SWITCH WITH GROUND SWITCH
CVT
CVT
CVT
CVT
LA
LA
LA
LA
B A C
B A C
B A C
B A C
CENTER 230KV LINE
BISMARCK (WAPA) 230KV LINE
HEBRON (WAPA) 230KV LINE
CONTROL HOUSE
CVT
LA
C B A
HIGH SW 7276
120
84
84
84
HIGH BUS
7282
CT
C B A
HIGH SW 7281
HIGH SW 7283
LOW SW 7277
LOW SW 7287
7278
7288
LOW SW 7279
LOW BUS
LOW BUS
BUS SUPPORT ON SW STAND FOR FUTURE SWITCH
84.0002
SSVT
AREA FOR FUTURE 115KV CAP BANK
HIGH BUS
HIGH BUS
HIGH BUS
LOW SW 7264
BUS SUPPORT ON SW STAND FOR FUTURE SWITCH
7263
LOW SW 7262
204
144.0208
143.9794
204.0001
HIGH SW 7266
7267
HIGH SW 7268
LOW SW 7272
LOW SW 7261
LOW SW 7271
CVT
CVT
LA
LA
C B A
C B A
NW MANDAN 115KV LINE
MOR–GRAN–SOU 115KV LINE
COYOTE 115KV LINE
HESKETT 3 115KV LINE
CVT
CVT
CVT
LA
LA
LA
LOW BUS
LOW BUS
LOW BUS
HIGH BUS
BUS SUPPORT ON SW STAND FOR FUTURE SWITCH
LOW SW 7291
CVT
CVT
LA
LA
C B A
HESKETT 4 115KV LINE
MANDAN 38TH (COLLINS) 115KV LINE
New location of second 230/115 kV Transformer

NO.	DATE	REVISIONS	DES / DR
-	-	-	-

PHYSICAL OUTDOOR

MANDAN TRAN SUBSTATION
PROPOSED SUBSTATION LAYOUT
GENERAL ARRANGEMENT

DRAWING #	
SUB. LOC.	54
DATE	4/7/2020
ENG.	DES. DM
DR.	CH. DM
CK.	DM
SCALE:	NA
SHEET	1 OF 1
REVISION	

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Helping Build The Communities We Serve