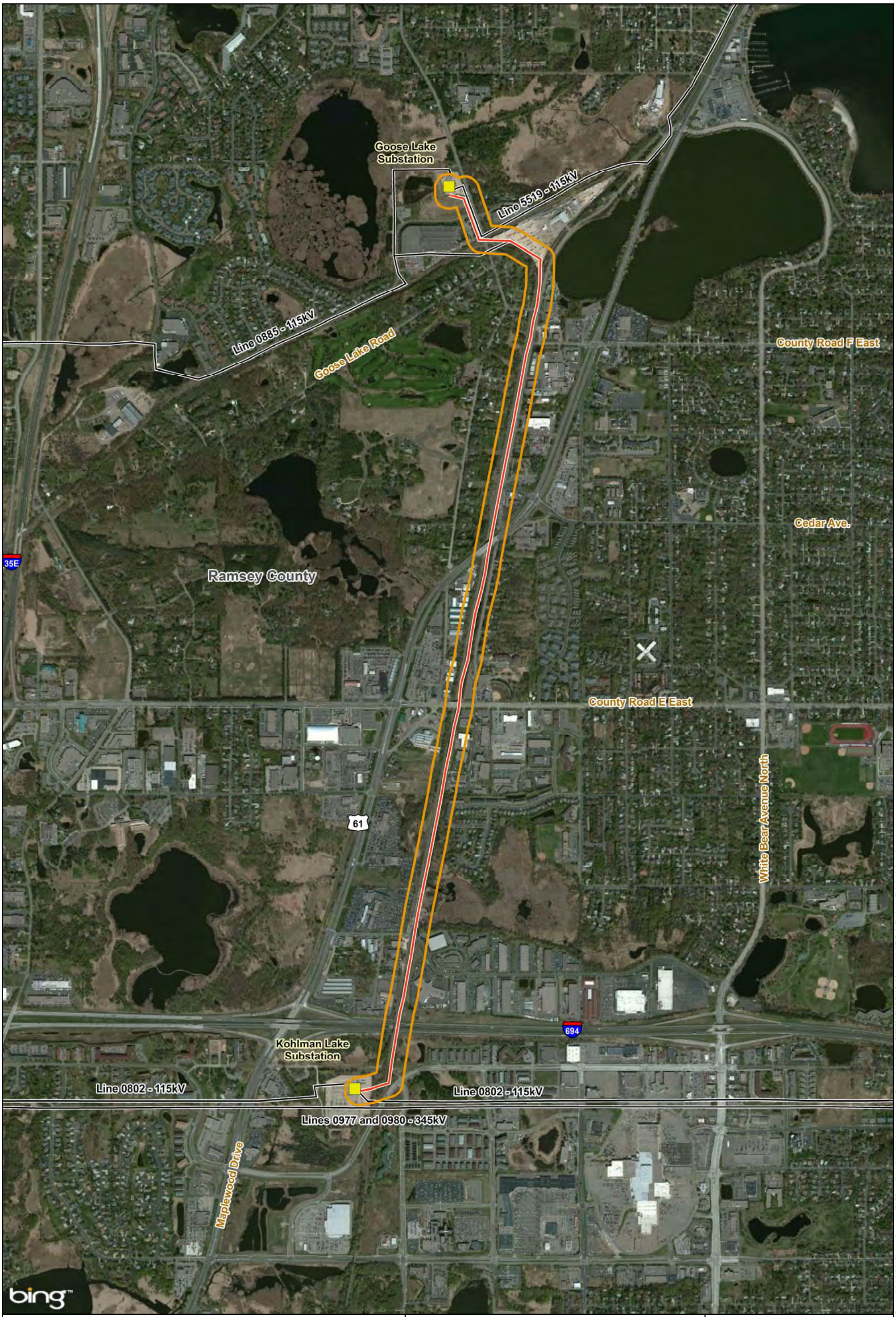
APPENDIX B

Route Maps



Xcel Energy Substation

Proposed Kohlman Lake to Goose Lake Rebuild to Double Circuit 115kV

Existing Xcel Energy Transmission Lines

Route Width

0 1,000 2,000 Feet

Figure B-1

Kohlman Lake to Goose Lake 115/115kV Transmission Line Rebuild Project

Proposed Route Map

Ramsey County, Minnesota

Xcel Energy® RESPONSIBLE BY NATURE™

Source: Aerial provided by ESRI
All other data from Xcel Energy, ESRI, and Merjent
This information is for environmental review purposes only.

Source: Z:\Clients\U_XI\Xcel\KohlmannLake_GooseLake_ArcGIS\2012\11\PUC_Maps_11x17\B-1_Project_OV_Aerial.mxd

Date: (12/12/2012)

Goose Lake Substation

Line 5519 - 115kV

Line 0885 - 115kV

Goose Lake Road

County Road F East

Cedar Ave.

Ramsey County

County Road E East

White Bear Avenue North

McKnight Road North

Kohlman Lake Substation

Line 0802 - 115kV

Line 0802 - 115kV

Lines 0977 and 0980 - 345kV

Maplewood Drive

Xcel Energy Substation

Proposed Kohlman Lake to Goose Lake Rebuild to Double Circuit 115kV

Existing Xcel Energy Transmission Lines

Route Width

0 1,000 2,000 Feet

N

Figure B-2

Kohlman Lake to Goose Lake 115/115kV Transmission Line Rebuild Project

Proposed Route - USGS Topographical Map

Ramsey County, Minnesota

Xcel Energy® RESPONSIBLE BY NATURE™

Source: Topographic Base Map provided by ESRI
All other data from Xcel Energy, ESRI, and Merjent
This information is for environmental review purposes only.

Date: (12/12/2012) Source: Z:\Clients\U_X\Xcel\KohlmannLake_GooseLake_ArcGIS\2012\11\PUC_Maps_11x17\B-2_Project_OV_Topo.mxd

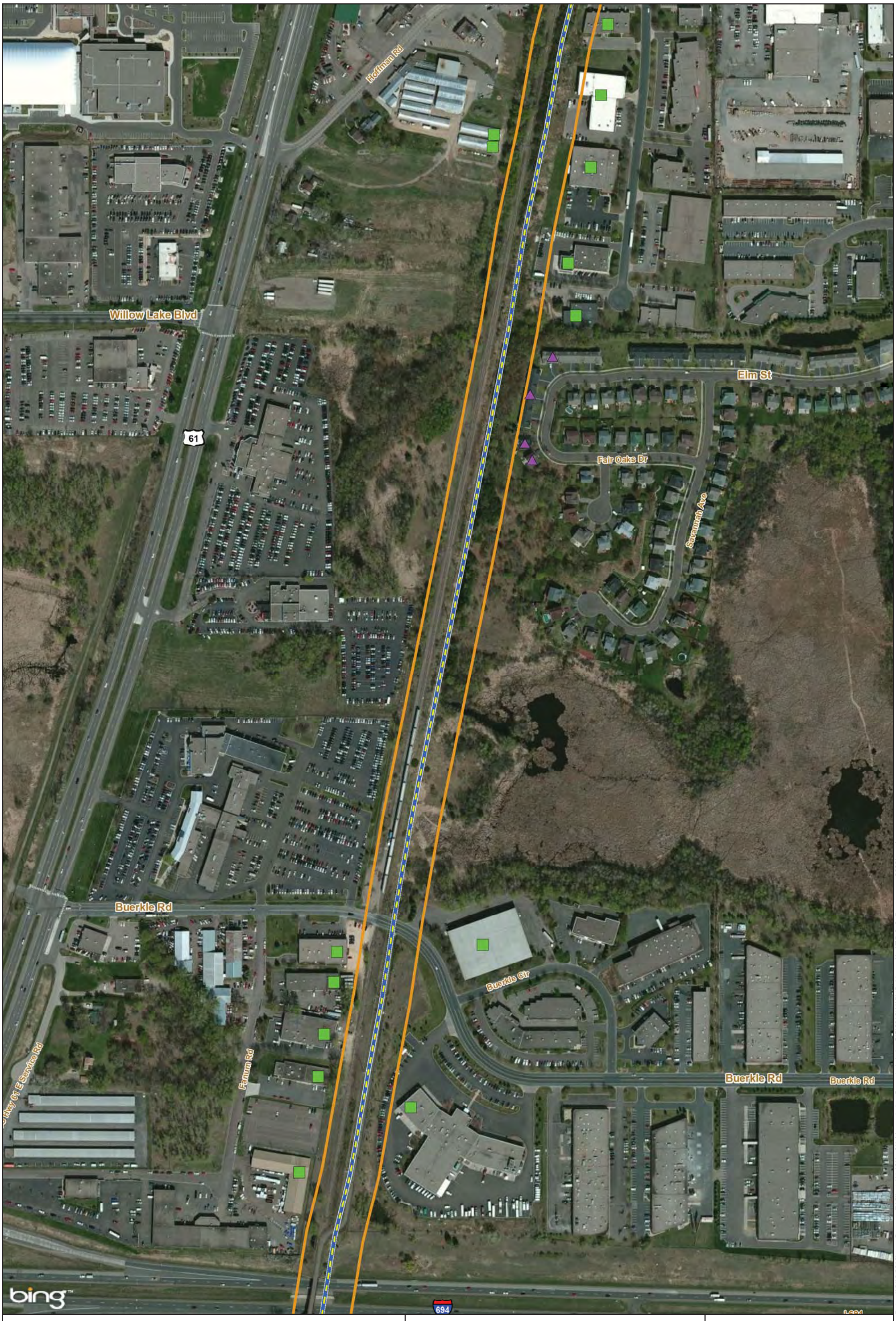
Buerkle Rd
US Hwy 61 E Service Rd
Fanum Rd
Buerkle Cir
61
694
County Rd D E
County Road D E
County
Kohlman Lake
Substation
Line 0802 - 115kV
Line 0802 - 115kV
Lines 0977 and 0980 - 345kV
bing

Existing Xcel Energy Substation
Residence
Business
New Double Circuit
(Circuit #1 and Circuit #2)
New Double Circuit
(Circuit #2 and Existing Line 5519)
Existing Xcel Energy
Transmission Lines
Route Width - 200 Feet
0 150 300 Feet
N

Figure B-3
Kohlman Lake to Goose Lake 115/115kV Transmission Line Rebuild Project
Proposed Route Aerial Photo-based Map
Ramsey County, Minnesota

Xcel Energy®
RESPONSIBLE BY NATURE™

Source: Z:\Clients\U_XX\Xcel\KohlmannLake_GooseLake_ArcGIS\2012\11\PUC_Maps_11x17\B-3_8_Routemaps_3600k.mxd
Date: (12/12/2012)



Existing Xcel Energy Substation
Residence
Business
New Double Circuit (Circuit #1 and Circuit #2)
New Double Circuit (Circuit #2 and Existing Line 5519)
Existing Xcel Energy Transmission Lines
Route Width - 200 Feet

0 150 300 Feet

N

Figure B-4

Kohlman Lake to Goose Lake 115/115kV Transmission Line Rebuild Project

Proposed Route Aerial Photo-based Map

Ramsey County, Minnesota

Xcel Energy® RESPONSIBLE BY NATURE™

Source: Z:\Clients\U_X\Xcel\KohlmannLake_GooseLake_ArcGIS\2012\11\PUC_Maps_11x17\B-3_8_Routemaps_3600k.mxd

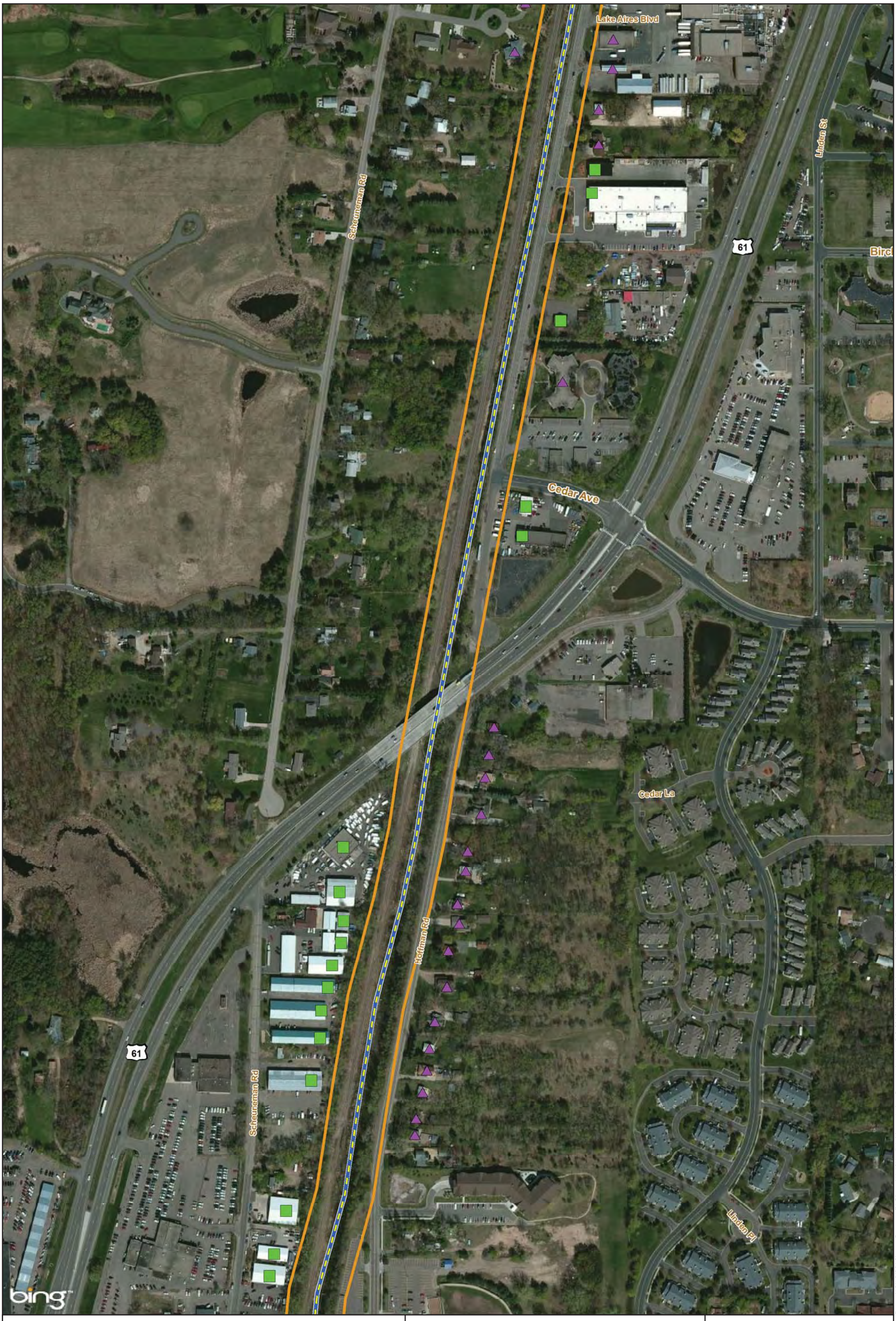
Date: (12/12/2012)

Existing Xcel Energy Substation
Residence
Business
New Double Circuit
(Circuit #1 and Circuit #2)
New Double Circuit
(Circuit #2 and Existing Line 5519)
Existing Xcel Energy
Transmission Lines
Route Width - 200 Feet
0 150 300 Feet
N

Figure B-5
Kohlman Lake to Goose Lake 115/115kV Transmission Line Rebuild Project
Proposed Route Aerial Photo-based Map
Ramsey County, Minnesota

Xcel Energy®
RESPONSIBLE BY NATURE™

Source: Z:\Clients\U_X\Xcel\KohlmannLake_GooseLake_ArcGIS\2012\11\PUC_Maps_11x17\B-3_8_Routemaps_3600k.mxd
Date: (12/12/2012)



Existing Xcel Energy Substation
Residence
Business
New Double Circuit (Circuit #1 and Circuit #2)
New Double Circuit (Circuit #2 and Existing Line 5519)
Existing Xcel Energy Transmission Lines
Route Width - 200 Feet

0 150 300 Feet

N

Figure B-6

Kohlman Lake to Goose Lake 115/115kV Transmission Line Rebuild Project

Proposed Route Aerial Photo-based Map

Ramsey County, Minnesota

Xcel Energy® RESPONSIBLE BY NATURE™

Source: Z:\Clients\U_X\Xcel\KohlmannLake_GooseLake_ArcGIS\2012\11\PUC_Maps_11x17\B-3_8_Routemaps_3600k.mxd

Date: (12/12/2012)

Circuit #2 Single Span
Structure 629
Line 5519 - 115kV
Structure 124
Structure 123
Line 0885 - 115kV
Replace Existing 115 kV Conductor
With New 115 kV Conductor
Goose Lake Rd
Hoffman Rd
Ash St
Lake Aires Blvd
Linden St
Pine St
Birch St
Cedar Ave
Scheuneman Rd
61
bing

Existing Xcel Energy Substation
Residence
Business
New Double Circuit
(Circuit #1 and Circuit #2)
New Double Circuit
(Circuit #2 and Existing Line 5519)
Existing Xcel Energy
Transmission Lines
Route Width - 200 Feet
0 150 300 Feet
N

Figure B-7
Kohlman Lake to Goose Lake 115/115kV Transmission Line Rebuild Project
Proposed Route Aerial Photo-based Map
Ramsey County, Minnesota

Xcel Energy®
RESPONSIBLE BY NATURE™

Date: (12/12/2012) Source: Z:\Clients\U_Xi\Xcel\KohlmannLake_GooseLake_ArcGIS\2012\11\PUC_Maps_11x17\B-3_8_Routemaps_3600k.mxd

Existing Xcel Energy Substation
Residence
Business
New Double Circuit (Circuit #1 and Circuit #2)
New Double Circuit (Circuit #2 and Existing Line 5519)
Existing Xcel Energy Transmission Lines
Route Width - 200 Feet
0 150 300 Feet
N

Figure B-8
Kohlman Lake to Goose Lake 115/115kV Transmission Line Rebuild Project
Proposed Route Aerial Photo-based Map
Ramsey County, Minnesota

Xcel Energy® RESPONSIBLE BY NATURE™

Source: Z:\Clients\U_X\Xcel\KohlmannLake_GooseLake_ArcGIS\2012\11\PUC_Maps_11x17\B-3_8_Routemaps_3600k.mxd
Date: (12/12/2012)