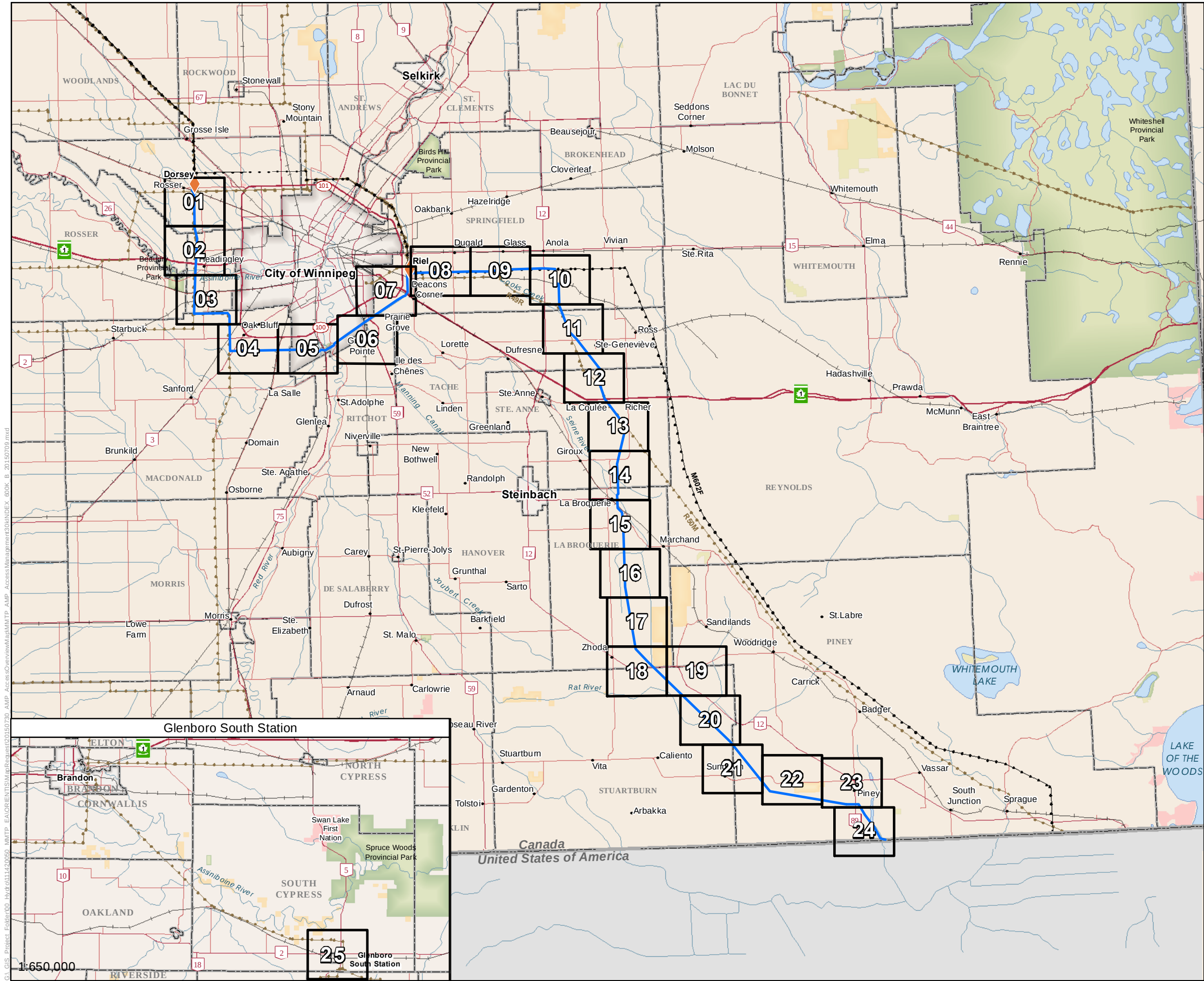




Manitoba-Minnesota Transmission Project

Project Infrastructure

- ◆ Converter Station (Existing)
- Final Preferred Route (FPR)

Infrastructure

- Existing 500kV Transmission Line
- Existing 230kV Transmission Line

Map Series Index - 1:30,000

- Map Series Tile

Landbase

- Community
- Railway
- Trans Canada
- Provincial Highway
- Provincial Road
- City
- First Nation Lands
- Ecological Reserve
- Wildlife Management Area
- Provincial Park
- Rural Municipality

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: August 04, 2015



0 10 Kilometres
0 5 10 Miles

1:600,000

Access Management Plan Overview Index



Manitoba - Minnesota Transmission Project

Project Infrastructure

Access

12 Proposed Access Route

R1 Restricted Access Route

12RT Proposed Access Point*

Final Preferred Route

Proposed Development Area

* R=Access point along existing road
T= Access point along the MMTP Final Preferred Route

Infrastructure

Rail

Municipal Road

Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: August 27, 2015

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Construction Access Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
1	1	Existing gravel road	Entrance road to Dorsey Station. Entrance road gated. Road terminates before getting to the ROW.	No	430 m	612184	5538710	612411	5538499
1	2	Existing approach	Existing access trail east of municipal road 1E,will need to crosses shallow ditch to access the ROW. Note: Crop land on both sides and Shelter belt on East side.	No	300 m	612155	5538096	612456	5538100
1	3	Existing dirt road	Mallard Road 66N, will need to cross steep ditch on both sides of the road to access the ROW, culverts required. Note: Crop land on both sides	No	470 m	612188	5537075	612658	5537082
1	4	Existing dirt road	Farmer Road 65N. Will need to cross steep and wide ditch on both sides to access the ROW. Culverts required. Note: Crop land on both sides.	No	465 m	612226	5535431	612691	5535442
1	5	Existing gravel road	Municipal road 64N. Will need to cross steep and wide ditch on both sides to access the ROW, Culverts required. Note: Crop land on both sides.	No	1170 m	613907	5533832	612734	5533809
1	6	Existing gravel/dirt road	Existing road off PR 334. Will need to cross shallow ditch on both sides of the road to access the ROW. Distribution line on the South side of the road. Note: Crop land on the North side of the road	No	1150 m	613931	5532199	612778	5532173

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Electrical Station

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Construction Access
Opportunities

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
2	10RT	Intersection with Provincial Road	ROW intersection with PR 241.	No	0 m	612878	5524726	612878	5524726
2	7	Existing dirt road	Existing road off PR 334. Will need to cross shallow ditch on both sides of the road to access the ROW. Note: Crop land on both sides of the road and natural gas line on North side of the road.	No	1260 m	613946	5531565	612913	5531344
2	8	Existing dirt road	Existing road off PR 334. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Note: Crop land on both sides of the road and distribution line on the South side of the road.	No	1230 m	614255	5528424	613028	5528342
2	9RT	Intersection with Trans-Canada Highway	ROW intersection with TCH used to access the Northern section of the ROW. Steep ditch on the North side of the road. Culverts required. Could consider using an existing crossing 50m East of the ROW.	No	0 m	612951	5526347	612951	5526347

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Electrical Station

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Construction Access
Opportunities

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
3	11	Existing gravel road	The Headingly Grand Trunk Trail off Wescana St. No Vehicles allowed. Will need special permission to use road. Steep ditch on both sides. To access the Northern section of the ROW, the only other access point is off Roblin Blvd (hwy 241).	No	440 m	613261	5523345	612824	5523372
3	12RT	Intersection with Provincial Road	ROW intersection with PR 427 (Wilkes Ave.). Will need to cross steep ditch on both sides of the road to access the ROW, Culverts required. Note: Crop land on both sides of the road. Distribution line on the South side of the road. Double rail tracks on North side of the road.	No	0 m	612758	5521518	612759	5521518
3	13	Existing gravel/dirt road	Existing road off La Verendrye road. Note: Crop land on both sides of the road. Distribution line on the North side of the road.	No	2600 m	614163	5517390	612617	5518218
3	14RT	Intersection with Provincial Road	ROW intersection with PR 334 (Harris road) PR334. Will need to cross steep ditch on both sides of the road to access the ROW, Culverts required. Note: Crop land on both sides of the road.	No	0 m	614155	5518115	614155	5518116
3	15	Existing dirt road	Existing road off PR 334 (Harris road). Crop land on both sides of the road. Distribution line on the East side of the road.	No	1200 m	614906	5518443	615802	5518147
3	15b	Existing dirt road	Alternative access point to Route ID 15 off La Verendrye road. Note: Crop land on both sides of the road. Distribution line on the East side of the road.	No	720 m	615806	5517428	615802	5518147
3	16	Existing dirt road	Existing road off La Verendrye road. Note: Crop land on both sides of the road. Distribution line on the East side of the road.	No	700 m	617445	5517449	617437	5518146
3	17RT	Intersection with gravel road	ROW intersection with La Verendrye road ROW intersection. Will need to cross steep ditch on both sides of the road to access the ROW, Culverts required. Note: Crop land on both sides of the road. Distribution line on the North side of the road and 115kv Transmission line on the South side of the road.	No	0 m	618401	5517468	618402	5517469

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Construction Access
Opportunities

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
4	18RT	Intersection with Provincial Road	ROW intersection with PTH 2 (Red Coat Trail). Will need to cross steep ditch on both sides of the road to access the ROW, Culverts required. Could consider using an existing crossing 20m West of the ROW to access the Northern section of the ROW. Note: Crop land on both sides of the road.	No	0 m	618472	5514174	618472	5514174
4	19RT	Intersection with Provincial Highway	ROW intersection with PTH 3 (Boundary Commission Trail). Will need to cross steep ditch on both sides of the road to access the ROW, Culverts required. Access Point 20RT would be the preferred access to Access Point 19. Note: Crop land on both sides of the road. Transmission line on the North side of the road and distribution line on the South side of the road.	No	0 m	618961	5512015	618961	5512015
4	20RT	Intersection with gravel road	Existing road off PTH 3 (Boundary Commission Trail). Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Note: Crop land on both sides of the road. Distribution line on the West side of the road.	No	0 m	619206	5512028	619206	5512029
4	21	Existing gravel road	Existing road off PTH 2 (Red Coat Trail). Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Note: Crop land on both sides of the road and distribution line on the East side of the road.	No	2160 m	620849	5512580	620844	5512060
4	22	Existing gravel/dirt road	Existing road off Perimeter hwy service road. Will need to cross shallow ditch on both sides of the road to access the ROW. Note: Distribution line on the West side of the road.	No	2250 m	622445	5512606	622458	5512098
4	23	Existing gravel road	Existing road off Perimeter Highway service road. Will need to cross shallow ditch on the East side and steep ditch on the West side of the road to access the ROW. Culvert required on the West side of the road. Note: Distribution line on the West side of the road.	No	2110 m	624109	5512632	624118	5512128
4	24	Existing gravel road	Existing road off Perimeter Highway service road. Will need to cross steep ditch on both sides of the road to access the ROW. Culvert required. Note: Distribution line on the West side of the road.	No	2120 m	625752	5512693	625770	5512168
4	25RT	Intersection with Provincial Road	ROW intersection with PR 330. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Use route 24 to access the west side of the ROW.	No	0 m	626329	5512178	626330	5512178

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Infrastructure

Rail

Municipal Road

Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: August 27, 2015

0 500 1,000 Meters
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Construction Access
Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
5	26	Existing dirt road	Existing road off Perimeter Highway. Will need to cross steep ditch on the West side of the road and shallow ditch on the East side of the road to access the ROW. Culvert required on the West side.	No	2080 m	627393	5512701	627409	5512205
5	27	Existing gravel road	Existing road off Perimeter Highway. Will need to cross steep ditch on both side of the road to access the ROW. Culvert required	No	2530 m	628626	5514373	628273	5512228
5	28	Existing gravel road	Existing road off Perimeter Highway. Will need to cross steep ditch on the West side of the road and shallow ditch on the East side of the road to access the ROW. Culvert required on the West side. West side of the road is fenced.	No	3340 m	631129	5512960	629894	5512245
5	29RT	Intersection with gravel road	ROW intersection with Waverly St. Will need to cross shallow ditch on both sides of the road to access the ROW. Distribution line on the West side of the road.	No	0 m	631155	5511956	631155	5511957
5	30	Existing trail	Existing trail off Red River Dr. Used to access the West side of the ROW. Will require permission from the City to use this trail.	No	160 m	633883	5512277	633757	5512178
5	31	Existing approach	Partially developed trail off Red River Dr. Used to access the West side of the ROW. Will require permission from the City to use this trail.	No	290 m	634263	5512361	634064	5512148
5	32	Existing dirt road	Partially developed trail off Red River Dr. Used to access the East side of the ROW. Will require permission from the City to use this trail.	No	230 m	634283	5512366	634509	5512406
5	33	Existing approach	Partially developed trail off AP off Courchaine Road. Used to access the ROW between the Red River and Flood Way. Access point gated. Will require permission from the City to use this trail.	No	340 m	634723	5512905	634867	5512609
5	34RT	Intersection with Provincial Road	ROW intersection with PR 200 (St. Mary's Road)	No	0 m	635580	5513163	635580	5513163

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Infrastructure

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Landbase

 Provincial Boundary

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Construction Access Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
6	35	Existing dirt road	Existing trail off Hallama Drive. Access point gated.	No	75 m	640142	5516368	640079	5516407
6	36RT	Intersection with Provincial Road	ROW intersection with Hallama Drive. Good access from both directions. Good visibility from upcoming vehicle.	Yes	0 m	640759	5516944	640760	5516944
6	37RT	Intersection with Provincial Road	ROW intersection with Hallama Drive.	No	0 m	641045	5517055	641045	5517056
6	38	New access	Proposed new trail off PTH 59. Required to access the East side of the ROW.	No	110 m	641416	5517229	641394	5517310
6	39	Existing dirt road	Existing trail off South Side Drive.	No	970 m	642000	5516712	641603	5517451
6	40	Existing dirt trail	Existing trail off Van Dekeere Road. Permission required from the city to use this trail.	No	6050 m	648572	5518152	642595	5518119
6	41	Existing dirt trail	Existing trail off Van Dekeere Road. Permission required from the city to use this trail.	No	6970 m	648572	5518152	643307	5518599
6	R1	Restricted	Use road only where no alternative exists.	No	4430 m	0	0	0	0

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Infrastructure

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Construction Access Opportunities



Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
7	42	Existing dirt trail	Existing trail of PR 207 (Deacon road). Access trail gated on both sides of the Road. Grass land on both sides of ROW	No	3450 m	648523	5519788	645215	5519884
7	43	Existing dirt road	Existing trail off Demeyer Road. Access trail identified as Lorne Hill Road 22E. Note: Distribution line on the North side of the road.	No	2840 m	648523	5519788	646752	5520894
7	44	Existing approach	ROW intersection with TCH. Will need to cross shallow ditch on the North side of the road and steep ditch on the South side of the road to access the ROW. Rail crossing on South side of Road. Will require permission from owner to use this road.	No	0 m	647403	5521373	647403	5521374
7	45	Existing dirt trail	Partially developed access trail off PR 207 (Deacon road). This trail can be used to access the South side of the ROW. Will need to develop access to accommodate vehicle.	No	940 m	648445	5523052	647510	5523031
7	46	Existing gravel road	Partially developed access road off PR 207 (Deacon road). Road to the City of Winnipeg Water Treatment Plant. Access road gated. PR 207 Permission required from the City to use this road.	No	1130 m	648445	5523085	647500	5523259
7	47RT	Intersection with Provincial Road	ROW intersection with PR 207 (Deacon road). Will need to cross steep ditch on West side of the road to access the ROW. Use 48R to access the East side of the ROW. Minor clearing required (shelterbelt). Distribution line on East side of the Road.	No	0 m	648390	5524768	648390	5524768
7	48	Existing approach	Existing road off Mission Road.	No	50 m	648451	5524723	648454	5524768
7	49	Existing gravel road	Existing mile road off Suthwyn Road. Distribution line on the West side of road.	No	4850 m	648357	5526363	651698	5524894

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--- M602F Modification (Salvage)

--- M602F Modification (New)

Final Preferred Route

Proposed Development Area

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Infrastructure

--- Existing 500kV Transmission Line

--- Rail

(300) Municipal Road

-12- Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

Coordinate System: UTM Zone 14N NAD83
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0 500 1,000 Meters
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Construction Access
Opportunities

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
8	49	Existing gravel road	Existing mile road off Suthwyn Road. Distribution line on the West side of road.	No	4850 m	648357	5526363	651698	5524894
8	50	Existing gravel road	Existing mile road off PTH 15 (Dugald Rd). Will need to cross Steep ditch on the East of the road and Shallow ditch on the West side of the road to access the ROW. Culvert required on the East side of the road. Crop land on both sides.	No	3200 m	653251	5528128	653336	5524937
8	51RT	Intersection with Provincial Road	ROW intersection with PR 206.Will need to cross shallow ditch on both sides of the road to access the ROW. Fence on both sides of the road. Shelter belt on the East side will need to be cleared. Crop land on both sides.	Yes	0 m	654993	5524982	654993	5524982
8	52	Existing dirt road	Existing mile road off PTH 15 (Dugald Rd). Will need to cross steep ditch on both sides of the road to access the ROW. Culvert required. Crop land on both sides.	No	3200 m	656537	5528220	656629	5525016
8	53	Existing dirt road	Existing mile road off PTH 15 (Dugald Rd). Will need to cross steep ditch on both sides of the road to access the ROW. Culvert required. Crop land on both sides.	No	3200 m	658133	5528256	658264	5525056

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Construction Access
Opportunities

Access Routes									
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9	54	Existing gravel road	Existing mile road off PTH 15 (Dugald Rd). Will need to cross steep ditch on the East side of the road to access the ROW. Culvert required. Farm land on both sides of the ROW. Distribution line on the West of the road.	Yes	3190 m	659808	5528282	659904	5525097
9	55	Existing gravel road	Access along existing mile road (Poplar Road 31E).	No	1800 m	661598	5523386	661580	5525181
9	56	Existing gravel road	Access along existing mile road (Edgewood Road 32E). Will need to cross steep ditch on both sides of the road to access the ROW. Culvert required. There is an existing narrow crossing 50m South of the ROW that could be used. Distribution line on the East side of the Road.	Yes	1860 m	663266	5523518	663225	5525380
9	57	Existing gravel road	Access along existing mile road (Millbrook road 33E). Will need to cross steep ditch on the East side of the road to access the ROW. Culvert required. There is an existing narrow crossing 50m South of the ROW that could be used. Distribution line on the East side of the Road.	Yes	1950 m	664911	5523475	664863	5525426
9	58	Existing gravel road	Access along existing mile road (Brier Cliff road 34E). Will need to cross shallow ditch on the West side of the road and steep ditch on the East side of the road to access the ROW. Culvert required to cross the East side. Crop land on both sides. Distribution line on the West side of the Road. Some clearing required on the East side of the road.	Yes	1940 m	666463	5526789	666499	5525465
9	59	Existing gravel road	Access along existing mile road (Stoneridge road 35E). Will need to cross shallow ditch on the East side of the road and steep ditch on the West side of the road to access the ROW. Culvert required the West side. Some clearing required on the East side of the ROW.	Yes	1930 m	668188	5523556	668142	5525488

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Infrastructure

--- Existing 500kV Transmission Line

--- Rail

--- (300) Municipal Road

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□ Electrical Station

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Construction Access
Opportunities

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
10	60RT	Intersection with Provincial Highway	ROW intersection with PTH 12. Will need to cross shallow ditch on the East side of the road and steep ditch on the West side of the road to access the ROW. Culvert required for the West side. Distribution crossing on the West side of road.	Yes	0 m	669798	5525534	669799	5525535
10	61	Existing gravel road	Access along existing mile road (Mission road 58N) off PTH 12. Will need to cross shallow ditch on the West side of the road and steep ditch on the East side of the road to access the ROW. Culvert required for the East side. Fence on the West side of the ROW. Distribution line and natural grass land on East side. Shelter belt and fence on West side.	No	1800 m	669811	5525232	671410	5525464
10	62	Existing gravel road	Access along existing mile road (Mission road 58N) off PTH 12. Will need to cross shallow ditch on the North side of the road and steep ditch on the South side of the road to access the ROW. Culvert required for the East side. Fence on the West side of the ROW. Natural grass land on both sides of the ROW. Some clearing required.	No	1890 m	669811	5525232	671696	5525273
10	63	Existing gravel road	Access along existing mile road (Centre Line road 57N) off PTH 12. Will need to cross s steep ditch on both sides of the road to access the ROW. Culvert required. Fence on the North side of the ROW. Distribution line on the North side of the road. Clearing required on both sides of the ROW.	Yes	1870 m	669852	5523588	671718	5523640
10	R2	Restricted	Greater Winnipeg Aquaduct, no crossing permitted.	No	230 m	0	0	0	0

Manitoba - Minnesota
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Provincial Road

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Trans-Canada Highway

Electrical Station

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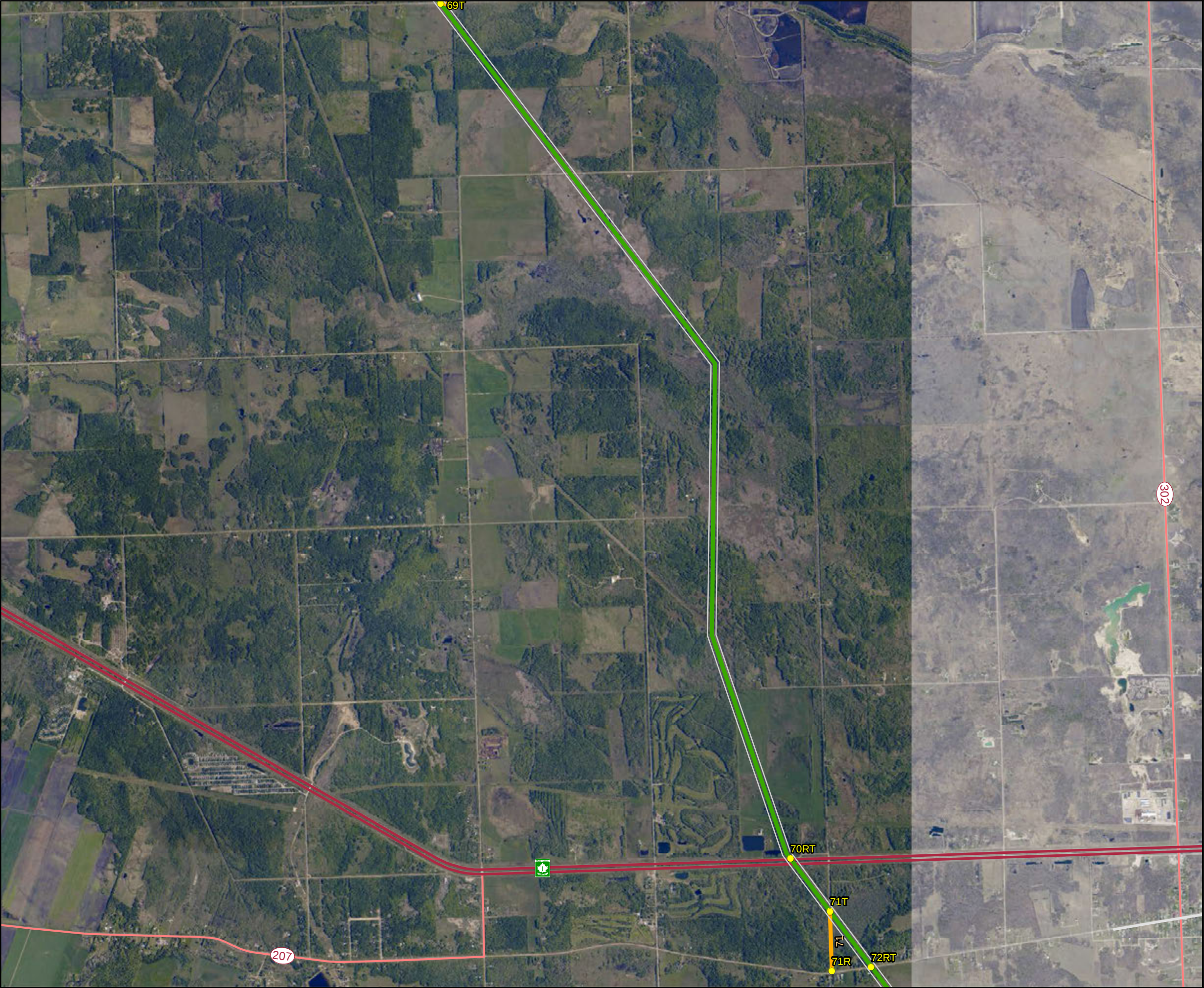
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Construction Access
Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
11	64	Existing gravel road	Access along existing mile road (Richland road 54N) off PTH 12. Will need to cross steep ditch on both sides of road to access ROW. Culverts required. There is an existing crossing that can be used to access the North side of the ROW. Fence on the North side of the ROW. Distribution line on North side of road. Natural grass land on North side and Crop land on South side road.	Yes	2650 m	669958	5518675	672615	5518749
11	65	Existing gravel road	Existing gravel road along Municipal road 38E off PR 501(Rosewood road). Road used to access an active quarry site. Must obtain permission before using road. Some clearing required on both sides of the ROW.	No	2460 m	673309	5515481	673678	5516017
11	66	Existing gravel road	Access along existing mile road (Monominto road) off PR 501 (Rosewood road). Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Clearing required on both sides of the ROW.	Yes	2390 m	674996	5513888	673863	5515491
11	67	Existing gravel road	Access along existing mile road (Monominto road) off PR 501 (Rosewood road). Will need to cross shallow ditch on both sides of the road to access the ROW. Fence and distribution line on the East side of the road. Clearing required on both sides of the ROW.	Yes	330 m	674996	5513888	674983	5514218
11	68RT	Intersection with Provincial Road	ROW intersection with PR 501 (Rosewood road). Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Distribution line and fence on the North side of the road. Clearing required on both sides of the ROW.	Yes	0 m	675318	5513888	675319	5513889
11	69	Existing gravel road	Existing gravel road along municipal road 40E off PR 501(Rosewood road). Will need to cross shallow ditch on North side and steep ditch on South side to access ROW with a culvert required for South side. There is a fence and natural grass land on the South side of ROW. Clearing required on North and South side of ROW. Distribution line on North side of road.	Yes	1770 m	676639	5513914	676546	5512274
11	R3	Restricted	Restricted access, do not use to access ROW.	No	1200 m	0	0	0	0
11	R4	Restricted	Restricted access, do not use to access ROW.	No	1640 m	0	0	0	0



Manitoba - Minnesota
Transmission Project

Project Infrastructure

Access

12 Proposed Access Route

R1 Restricted Access Route

12RT Proposed Access Point*

Final Preferred Route

Proposed Development Area

* R=Access point along existing road
T= Access point along the MMTP Final Preferred Route

Infrastructure

Rail

Municipal Road

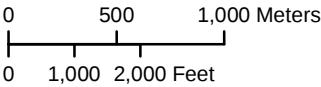
Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: August 27, 2015



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Construction Access
Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
12	70RT	Intersection with Trans-Canada Highway	ROW intersection with TCH. Use service road to access the North side of the ROW. Some Clearing required on the North side.	Yes	0 m	679854	5504189	679855	5504190
12	71	Existing gravel road	Access along existing mile road (Mun 42E) off Dawson road. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Wet land on both sides of the ROW. Access only possible under frozen ground condition. Clearing required on both sides of the ROW.	Yes	560 m	680247	5503125	680229	5503689
12	72RT	Intersection with gravel road	ROW intersection with Dawson road. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Fence on both sides of the ROW. Distribution line on South side of the road. Some clearing required on both sides of the ROW. There is an existing crossing on South side but it goes into a residential house.	Yes	0 m	680618	5503161	680618	5503162

Manitoba - Minnesota
Transmission Project

Project Infrastructure

Access

 Proposed Access Route

 Restricted Access

 Proposed Access Point*

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Infrastructure

 Rail

 Municipal Road

 Provincial Road

 Provincial Trunk Highway

 Trans-Canada Highway

 Electrical Station

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Data Source: MBHydro, ProvMB
Date Created: August 27, 2015

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Construction Access
Opportunities

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
13	73	Existing approach	Entrance road to Richer South Station off PR 302. Entrance road gated. Clearing required.	No	630 m	683681	5499452	683262	5499643



**Manitoba - Minnesota
Transmission Project**

Project Infrastructure

Access

12 Proposed Access Route

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Infrastructure

Rail

Municipal Road

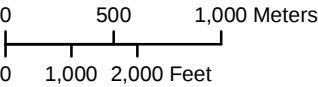
Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: August 27, 2015



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**Construction Access
Opportunities**

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
14	75RT	Intersection with Provincial Road	ROW intersection with PR 302. Will need to cross steep ditch with existing crossings on both sides of the road to access ROW. To access the North side, the existing crossing is located 380m East of the ROW. To access the South side, the existing crossing is located 70m West of the ROW. Distribution line on and some clearing required North side of the road. Crop land on both sides.	Yes	0 m	682024	5494356	682024	5494356
14	76	Existing gravel road	Access along municipal road 38N off PR 302. Will need to cross steep ditch on the South side of the road to access the ROW. Culvert required. There is an existing crossing with gates on the North side of the ROW. Fence on each side of road. Crop land on both sides of the ROW. Distribution line on the North side of the road.	Yes	1250 m	680608	5492652	681851	5492707
14	77	Existing gravel road	Access along municipal road 37N off PR 302. Will need to cross steep ditch on the North side of the road to access the ROW. Culvert required. There is an existing crossing on the South side of the ROW. Crop land on the South side of the road. Natural grass land on the North of the road. Some clearing required on North side of the road.	No	1270 m	680653	5491019	681921	5491066
14	78	Existing gravel road	Access along municipal road 37N off PR 302. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Fence on the North side of the road. Clearing required on the South side of the ROW.	Yes	1380 m	680610	5489695	681970	5489676
14	R5	Restricted	Use road only where no alternative exists.	No	1650 m	0	0	0	0

Manitoba - Minnesota
Transmission Project

Project Infrastructure

Access

 Proposed Access Route

 Restricted Access

 Proposed Access Point*

 Final Preferred Route

 Proposed Development Area

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Infrastructure

 Rail

 Municipal Road

 Provincial Road

 Provincial Trunk Highway

 Trans-Canada Highway

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: August 27, 2015

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Construction Access
Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
15	80	New access	Proposed new trail off Gorrelin road. Required to access the East side of the ROW. Exact location of trail to be determined in line with the location of tower. Will need to cross steep ditch to access the ROW. Culvert required. Distribution line on the East side of the road.	No	60 m	681866	5486594	681921	5486594
15	81	Existing gravel road	Access along municipal road 34N off PR 210. Wet land on both sides of the ROW. Access only possible under frozen ground condition.	No	280 m	682218	5486388	681935	5486374
15	82	Existing gravel road	Access along existing mile road (Stroch road) off PR 210. Will need to cross steep ditch on both sides of the road to access the ROW. There is an existing crossing on the east side of the ROW that could be used to access the North side of the ROW. Crop land on both sides of the road.	No	780 m	683473	5484805	682691	5484776
15	83	Existing gravel road	Access along existing mile road (32N road) off PR 210. Will need to cross shallow ditch on the North side and Steep ditch on the South side of the road to access the ROW. Culvert required for the South side. Clearing required on both sides of the ROW.	Yes	1600 m	683625	5483170	682806	5483147
15	84	Existing gravel road	Access along existing mile road (Marchand road) off PR 210. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Clearing required on both sides of the ROW.	No	4100 m	683744	5479887	682910	5479864
15	85	Existing gravel road	Access along existing mile road (Marchand road) off PR 210. Will need to cross shallow ditch on the North side and steep ditch on the South side of the road to access the ROW. Culvert required for the South side. Clearing required on both sides of the ROW.	Yes	2400 m	683725	5478269	682981	5478205
15	R6	Restricted	Use road only where no alternative exists.	No	4200 m	0	0	0	0



**Manitoba - Minnesota
Transmission Project**

Project Infrastructure

Access

12 Proposed Access Route

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Infrastructure

Rail

Municipal Road

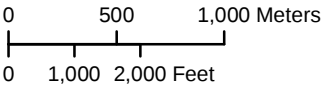
Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

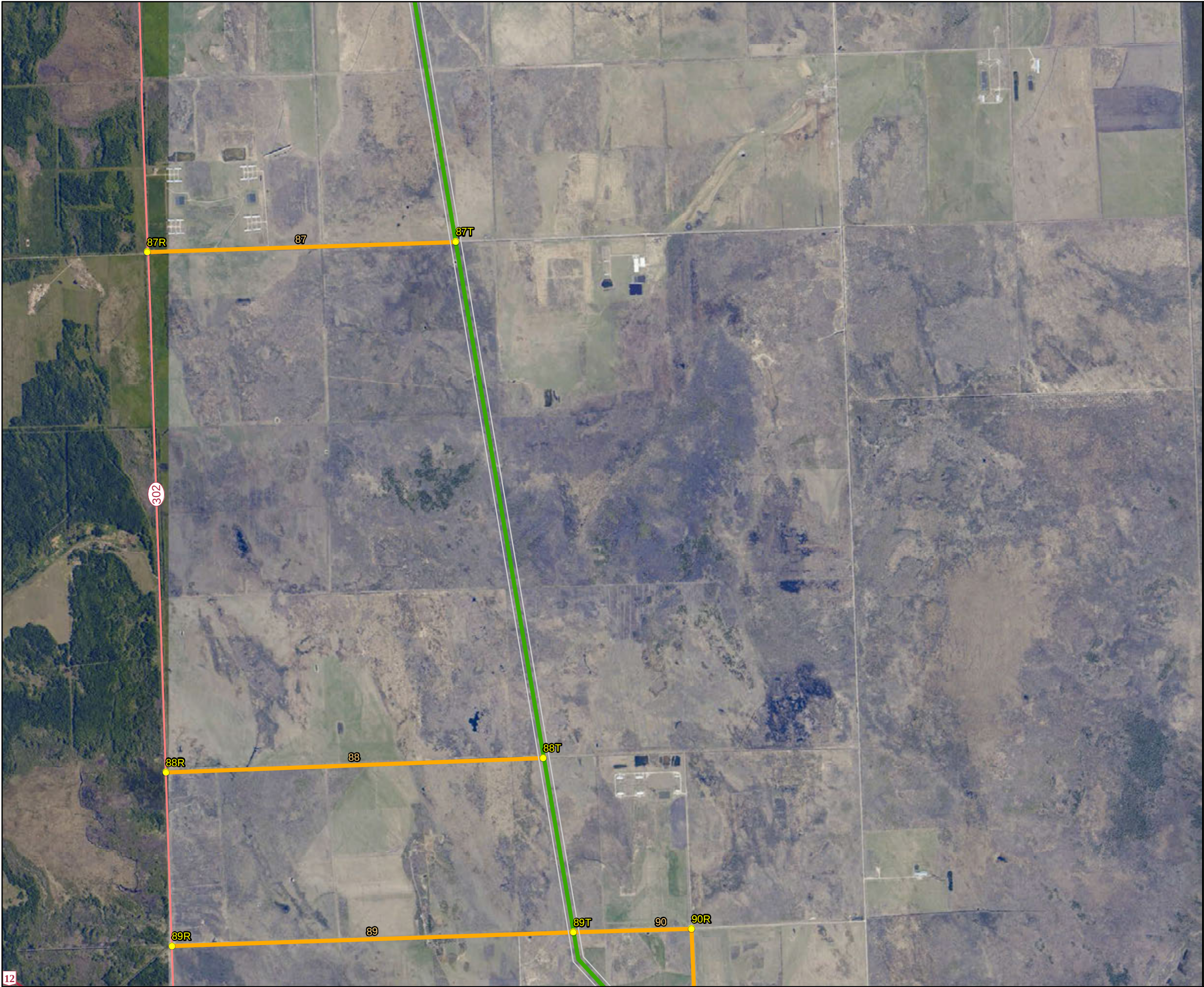
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Date Created: August 27, 2015



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**Construction Access
Opportunities**

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
16	86	Existing gravel road	Access along existing mile road (Trentham road) off PR 302. Will need to cross shallow ditch on the North side and steep ditch on the South side of the road to access the ROW. There is an existing crossing with a gate 30m West of the ROW that could be used to access the South side of the ROW. Fenced on both sides of road.	No	2460 m	680636	5474853	683089	5474943



**Manitoba - Minnesota
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Access

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Infrastructure

Rail

Municipal Road

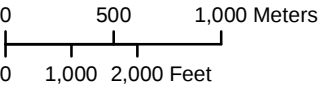
Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

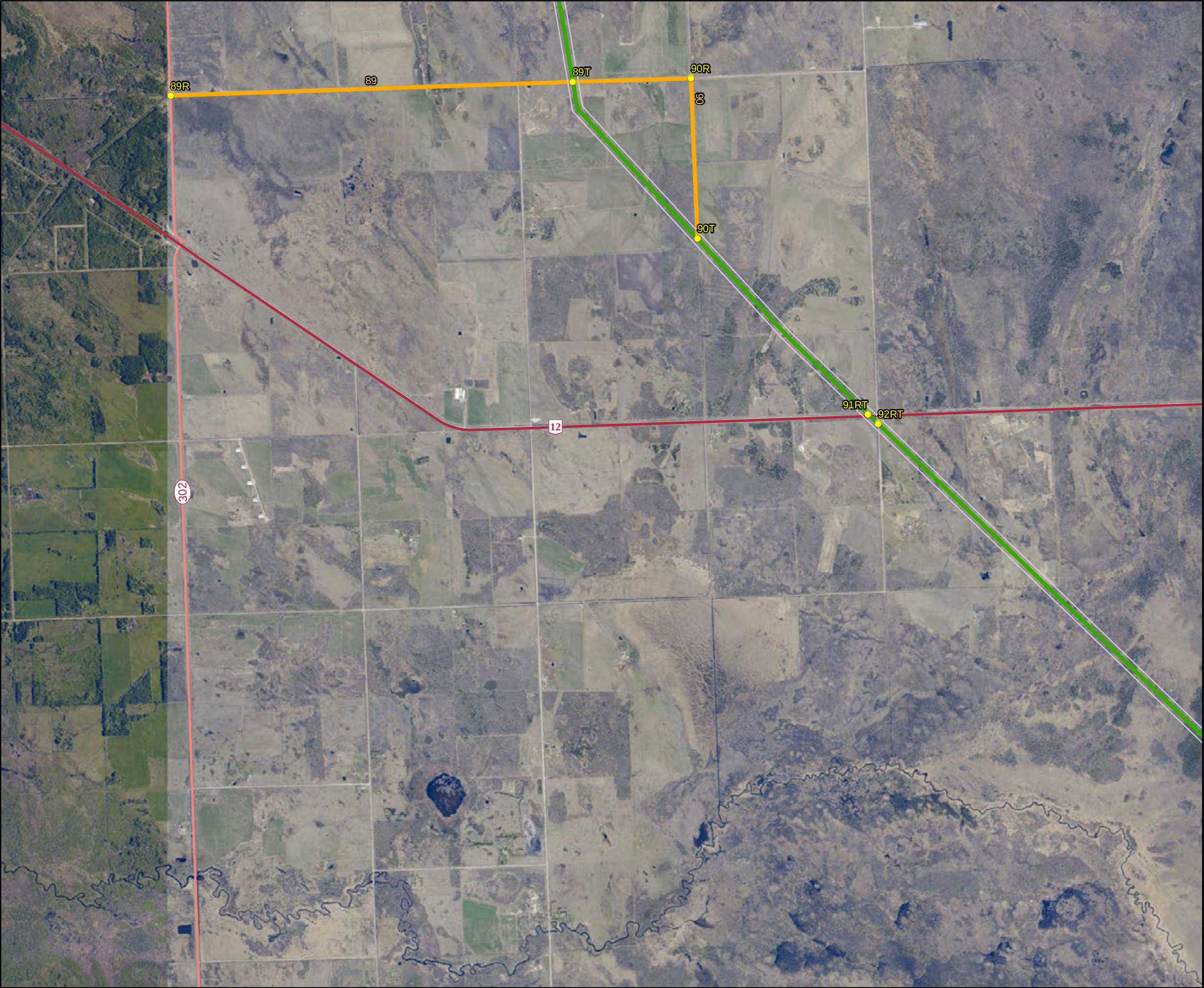
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Data Source: MBHydro, ProvMB
Date Created: August 27, 2015



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**Construction Access
Opportunities**

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
17	87	Existing gravel road	Access along existing mile road (Moose Meadow Rd 24N) off PR 302. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Fence on the North side of the road. Some clearing required on both sides of the ROW.	Yes	2900 m	680795	5469940	683717	5470040
17	88	Existing trail	Partially developed trail off PR 302.	Yes	3570 m	680973	5465011	684547	5465147
17	89	Existing trail	Access along existing mile road (Marynowski road) off PR 302. Will need to cross shallow ditch on the North side and steep ditch on the South side of the road to access the ROW. Culvert required for the South side. Fence on the North side of the road. Distribution line on the North side of the road. Some clearing required on both sides.	Yes	3800 m	681029	5463364	684833	5463496
17	90	Existing gravel/dirt road	Access along existing trail (Chopyk Road) off Marynowski road. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. The trail contains standing water in locations where there is rutting. Fence on the East side of the trail. Distribution line on the East side of the trail. Clearing required on both sides of the trail.	Yes	2640 m	685952	5463527	686013	5462011



Manitoba - Minnesota
Transmission Project

Project Infrastructure

Access

12 Proposed Access Route

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Infrastructure

Rail

Municipal Road

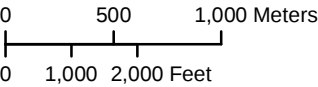
300 Provincial Road

12 Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: August 27, 2015



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Construction Access
Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
18	91RT	Intersection with Provincial Highway	ROW intersection with PTH 12. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Fence on the North side of the road. Distribution line on the North side of the road.	No	0 m	687627	5460346	687628	5460347
18	92RT	Intersection with gravel road	ROW intersection with Wells road. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. There is an existing crossing 30m North of the ROW that can be used to access the East side of the ROW.	Yes	0 m	687723	5460258	687723	5460259

Manitoba - Minnesota
Transmission Project

Project Infrastructure

Access

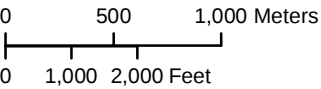
-  Proposed Access Route
-  Restricted Access Route
-  Proposed Access Point*
-  Final Preferred Route
-  Proposed Development Area

* R=Access point along existing road
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Infrastructure

-  Rail
-  Municipal Road
-  Provincial Road
-  Provincial Trunk Highway
-  Trans-Canada Highway
-  Electrical Station

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: September 01, 2015



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Construction Access
Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
19	93	Existing gravel road	Existing access road off PTH 12. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Clearing required on both sides of the ROW	Yes	2850 m	692767	5458160	692866	5455310
19	94	Existing gravel road	Existing access road (Lonesand road) off PTH 12.Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Clearing required on both sides of the ROW.	Yes	2700 m	696133	5455569	694235	5454006

Manitoba - Minnesota
Transmission Project

Project Infrastructure

Access

12 Proposed Access Route

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12RT Proposed Access Point*

Final Preferred Route

Proposed Development Area

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Infrastructure

Rail

Municipal Road

Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: August 27, 2015

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Construction Access
Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
20	95	Existing gravel road	Existing access road (Sundown road) off PTH 12. Clearing kept to a minimum, community concerns with trees surrounding cemetery. Distribution line to the East of the road. Clearing required on both sides of the road.	Yes	3320 m	699057	5449373	699586	5452582



**Manitoba - Minnesota
Transmission Project**

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Infrastructure

Rail

Municipal Road

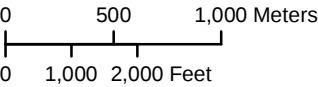
Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

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**Construction Access
Opportunities**

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
21	97RT	Intersection with Provincial Road	ROW intersection with PR 201. Will need to cross steep ditch on both sides of the Road to access the ROW. Culverts required. Clearing required on both sides.	Yes	0 m	704928	5442339	704929	5442340



**Manitoba - Minnesota
Transmission Project**

Project Infrastructure

Access

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Infrastructure

Rail

Municipal Road

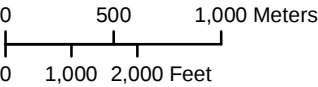
Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

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**Construction Access
Opportunities**

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Manitoba - Minnesota Transmission Project

Project Infrastructure

Access

12 Proposed Access Route

R1 Restricted Access Route

12RT Proposed Access Point*

Final Preferred Route

Proposed Development Area

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Infrastructure

Rail

Municipal Road

300 Provincial Road

12 Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

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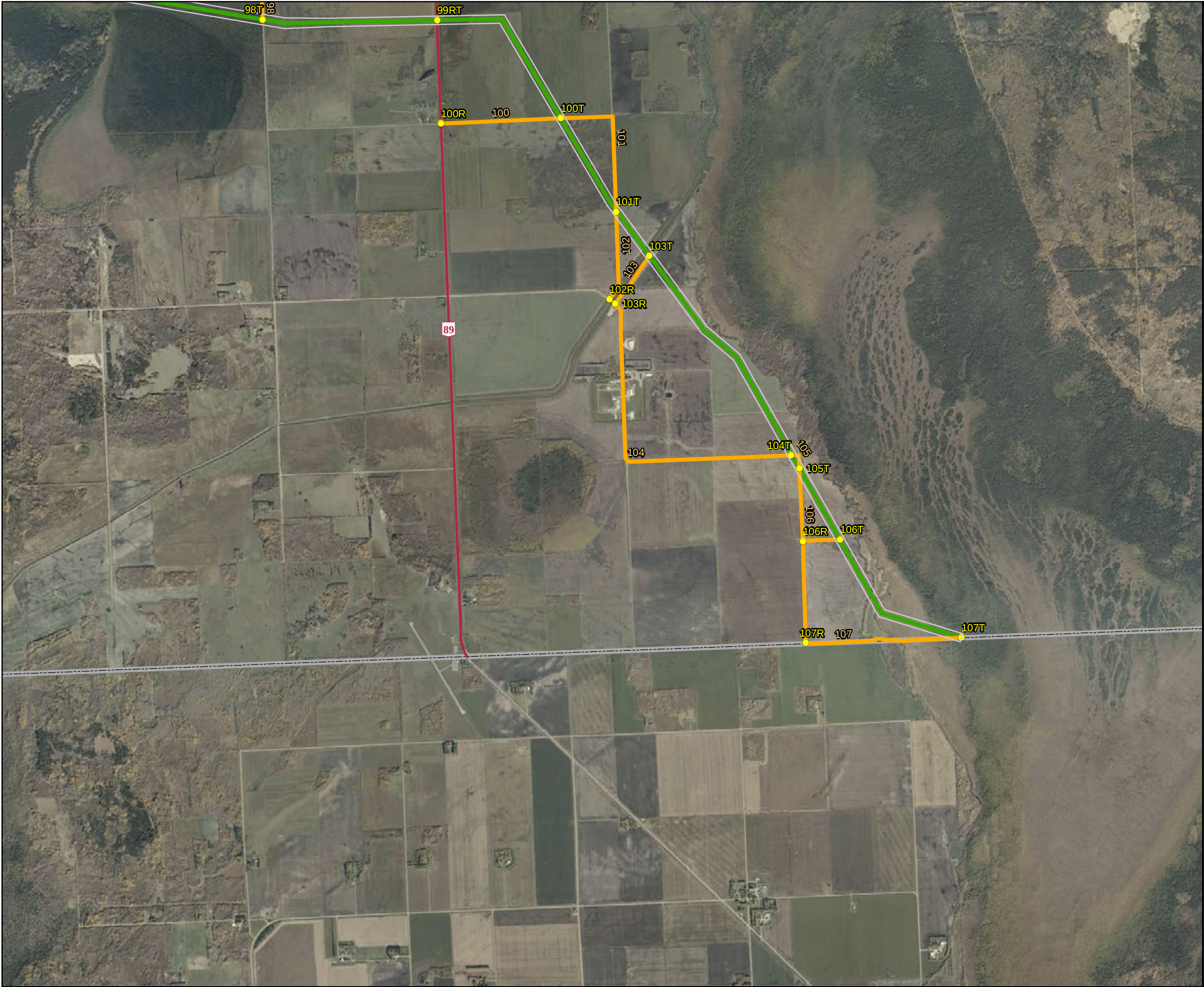
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Construction Access Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
23	100	Existing gravel road	Access along existing mile road off PTH 89.Will need to cross shallow ditch on both sides of the road to access the ROW. Crop land on both sides of road. Some clearing required on South side of ROW.	No	1130 m	720768	5436897	721902	5436948
23	101	Existing gravel road	Access along existing mile road. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Crop land on both sides of the. Clearing required on the North side of the ROW.	Yes	1400 m	721902	5436948	722429	5436062
23	98	Existing dirt road	Access along municipal road 65E off PR 201.	No	3870 m	718995	5440130	719080	5437881
23	99RT	Intersection with Provincial Highway	ROW intersection with PTH 89. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Distribution crossing on the East side of the road. Clearing required on the East side of the ROW	Yes	0 m	720732	5437877	720733	5437877



**Manitoba - Minnesota
Transmission Project**

Project Infrastructure

Access

 Proposed Access Route

 Restricted Access Route

 Proposed Access Point*

 Final Preferred Route

 Proposed Development Area

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T= Access point along the MMTP Final Preferred Route

Infrastructure

 Rail

 Municipal Road

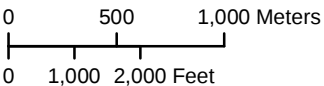
 Provincial Road

 Provincial Trunk Highway

 Trans-Canada Highway

 Electrical Station

Coordinate System: UTM Zone 14N NAD83
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**Construction Access
Opportunities**

Access Routes									
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						UTM Easting	UTM Northing	UTM Easting	UTM Northing
24	102	Existing gravel road	Existing municipal road 2N extending 850 m from 102R to 101T.	No	860 m	722365	5435230	722429	5436062
24	103	Existing trail	Existing trail on the bank of a drainage ditch. Will require permission to use this trail.	Yes	560 m	722418	5435190	722741	5435643
24	104	Existing gravel road	Access along existing mile road. Will need to cross steep ditch on both sides of the road to access the ROW. Culverts required. Crop land on both sides of the road. Contact Pineland Colony to discuss access route.	Yes	3070 m	722418	5435190	724083	5433753
24	105	Existing gravel road	Access along existing mile road. Will need to cross shallow ditch on both sides of the road to access the ROW. Crop land on both sides of the road.	No	200 m	724083	5433753	724163	5433640
24	106	Existing trail	Undeveloped dirt trail off a mile road. Trail will need to be widened and develop to accommodate construction equipments. Will require permission from Pineland Colony.	No	1050 m	724197	5432937	724550	5432953
24	107	Existing trail	Partially developed mile road along ON road. Mile road has been seeded up to the ditch line.	No	2450 m	724222	5431977	725700	5432026

Manitoba - Minnesota
Transmission Project

Project Infrastructure

Access

12 Proposed Access Route

R1 Restricted Access

12RT Proposed Access Point*

Final Preferred Route

Proposed Development Area

Glenboro South Station Expansion

* R=Access point along existing road
T= Access point along the MMTP Final Preferred Route

Infrastructure

Rail

Municipal Road

Existing Transmission Line

Provincial Road

Provincial Trunk Highway

Trans-Canada Highway

Electrical Station

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB
Date Created: August 27, 2015

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Construction Access
Opportunities

Access Routes									
Map Number	Route ID	Route Access Type	Description	Access Route Photo included in Appendix A	Access Length	Road Access Point		Transmission ROW Access Point	
						UTM Easting	UTM Northing	UTM Easting	UTM Northing
25	108	New Access	Existing approach into the field East and may need permission from land owner. West access to station will require a new access and approach	No	100 m	479770	5487365	479664	5487368
25	109	Existing gravel road	Existing gravel road from PTH 5 leading into Glenboro station.	No	225 m	479770	5487313	479546	5487314

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