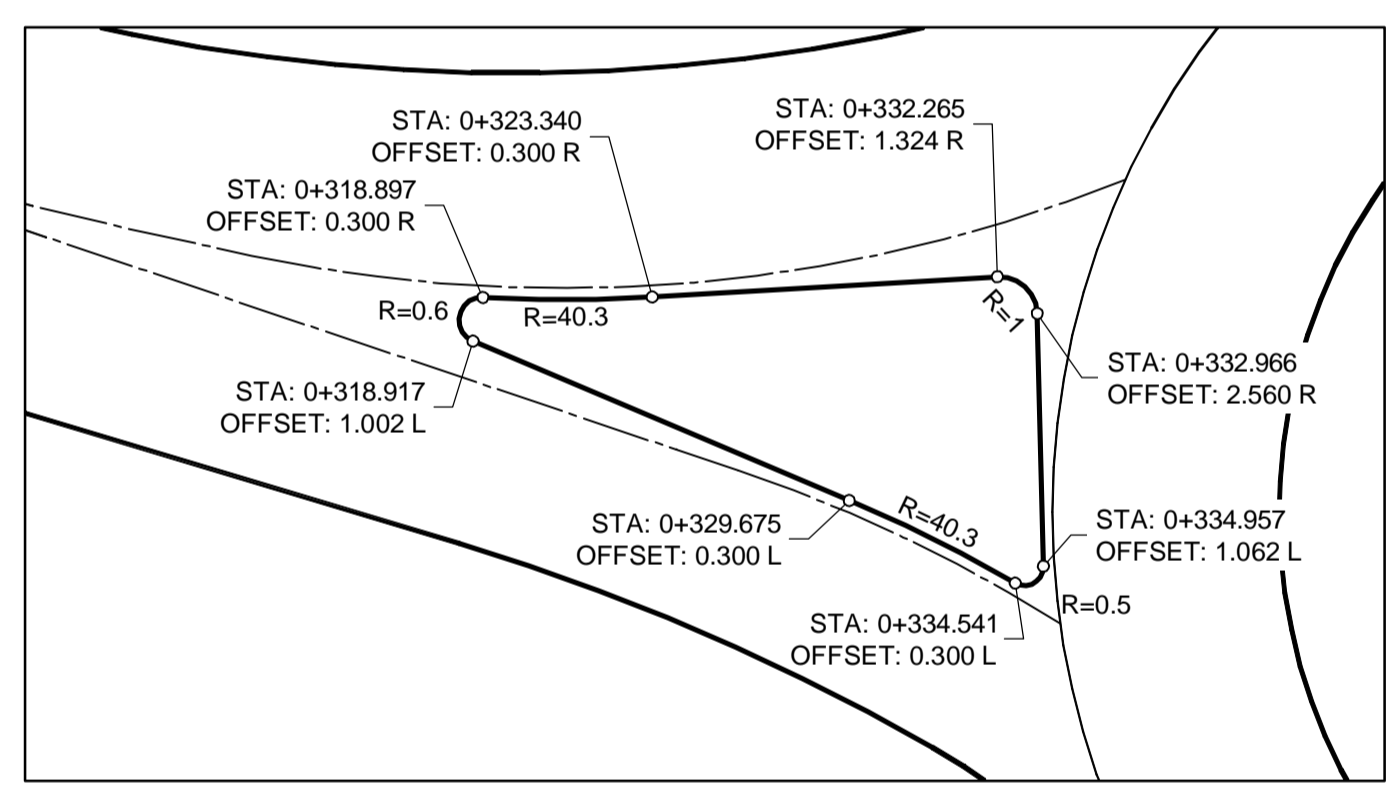


MOLSON NORTHBOUND CONTROL LINE (NORTH LEG)						
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA	
		NORTHING	EASTING		R.	(7)
P.C.	0+600.000	5531850.143	639741.310	R.	200.000	30.000
P.T.	0+609.359	5531858.977	639744.283	Δc	2°50'48"	17°52'30"
P.C.	0+634.745	5531881.488	639756.019	Tc	4.969	4.718
P.T.	0+644.682	5531890.181	639760.829	L.	9.936	9.359
P.T.	0+688.619	5531928.084	639783.051	L.C.	9.935	9.321

MOLSON SOUTHBOUND CONTROL LINE (NORTH LEG)						
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA	
		NORTHING	EASTING		R.	(5)
P.C.	0+599.354	5531854.211	639733.881	R.	30.000	400.000
P.T.	0+613.039	5531863.582	639743.691	Δc	26°08'11"	2°51'45"
P.C.	0+629.723	5531877.536	639752.837	Tc	6.964	9.994
P.T.	0+649.706	5531894.515	639763.370	L.	13.685	19.983
P.T.	0+688.619	5531928.084	639783.051	L.C.	13.567	19.981

GRASSIE EASTBOUND CONTROL LINE (WEST LEG)						
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA	
		NORTHING	EASTING		R.	(1)
P.T.	0+126.969	5531987.387	639569.825	R.	200.000	40.000
P.C.	0+179.188	5531940.876	639593.565	Δc	33°25'06"	13°32'49"
P.T.	0+295.840	5531857.799	639673.091	Tc	60.038	4.751
P.C.	0+326.648	5531841.728	639699.375	L.	116.652	9.457
P.T.	0+336.105	5531835.892	639706.789	L.C.	115.005	9.435

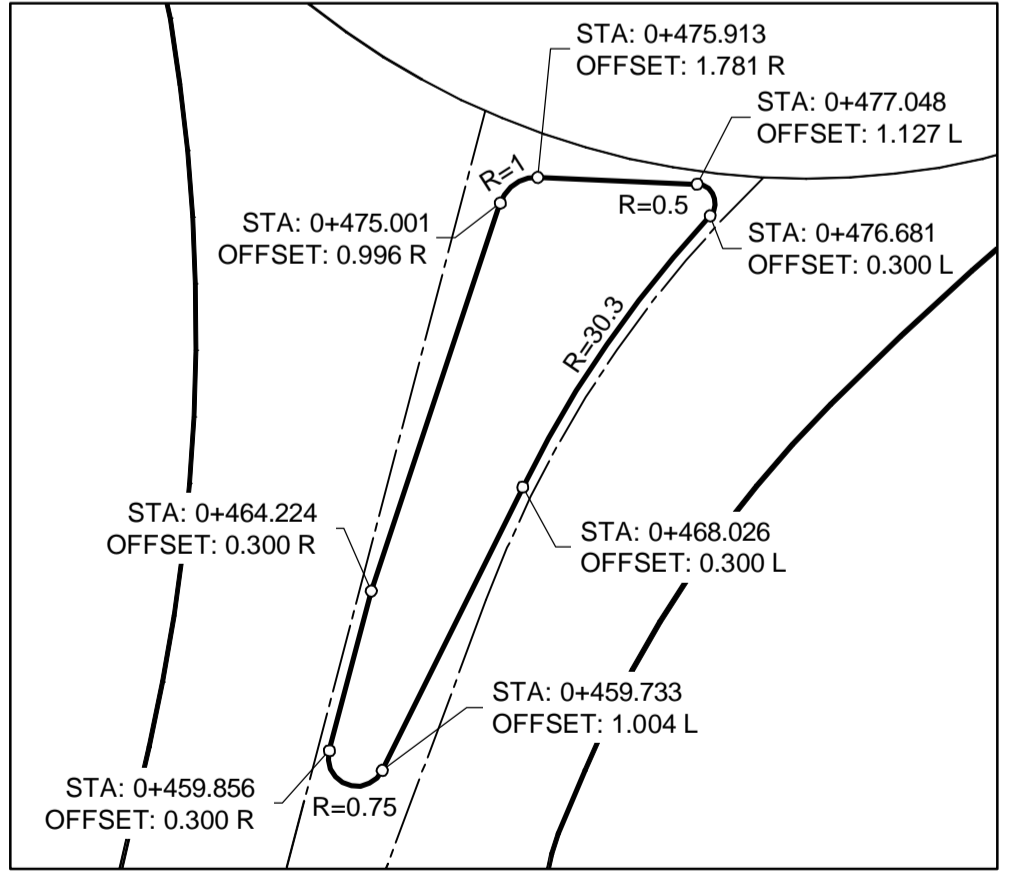
GRASSIE WESTBOUND CONTROL LINE (WEST LEG)						
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA	
		NORTHING	EASTING		R.	(3)
P.T.	0+295.840	5531857.799	639673.091	R.	200.000	40.000
P.C.C.	0+312.707	5531850.111	639688.099	Δc	33°25'06"	13°32'49"
P.T.	0+336.233	5531846.940	639711.069	Tc	60.038	4.751
				L.	116.652	9.457
				L.C.	115.005	9.435



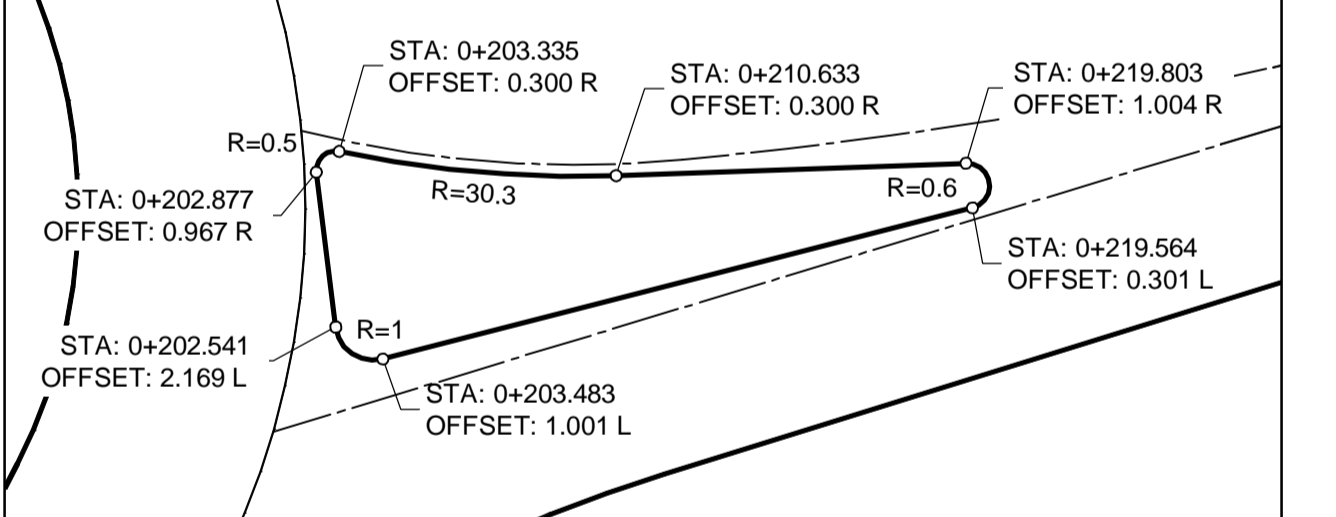
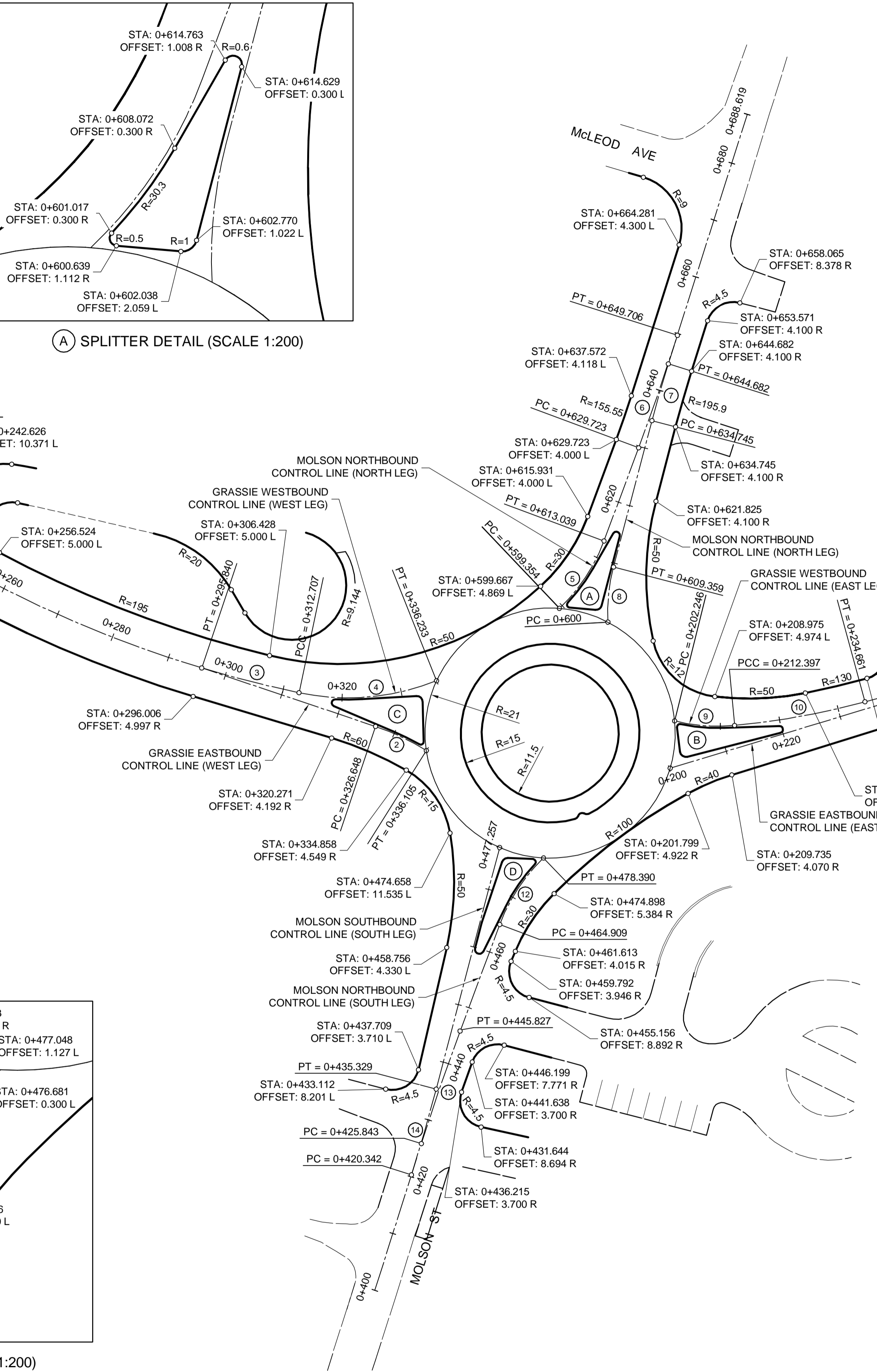
(C) SPLITTER DETAIL (SCALE - 1:200)

MOLSON SOUTHBOUND CONTROL LINE (SOUTH LEG)						
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA	
		NORTHING	EASTING		R.	(14)
P.T.	0+400.000	5531749.455	639678.244	R.	300.000	
P.C.	0+420.342	5531766.999	639688.538	Δc	2°51'45"	
P.T.	0+435.329	5531780.110	639695.796	Tc	7.495	
P.T.	0+477.257	5531817.287	639715.182	L.	14.988	
				L.C.	14.986	

MOLSON NORTHBOUND CONTROL LINE (SOUTH LEG)						
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA	
		NORTHING	EASTING		R.	(12)
P.T.	0+400.000	5531749.455	639678.244	R.	30.000	400.000
P.C.	0+425.843	5531771.744	639691.322	Δc	25°44'49"	2°51'45"
P.T.	0+445.827	5531788.720	639701.861	Tc	6.856	9.994
P.C.	0+464.909	5531804.676	639712.328	L.	13.481	19.983
P.T.	0+478.390	5531813.939	639721.966	L.C.	13.368	19.981



(D) SPLITTER DETAIL (SCALE - 1:200)



(B) SPLITTER DETAIL (SCALE - 1:200)

GRASSIE EASTBOUND CONTROL LINE (EAST LEG)						
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA	
		NORTHING	EASTING		R.	(11)
P.T.	0+200.000	5531823.900	639745.904	R.	500.000	
P.C.	0+286.917	5531828.392	639809.663	Δc	2°40'22"	
P.T.	0+287.241	5531829.488	639832.960	Tc	11.664	
P.T.	0+314.966	5531830.144	639860.676	L.	23.325	
				L.C.	23.323	

GRASSIE WESTBOUND CONTROL LINE (EAST LEG)						
CONTROL POINT	STATION	COORDINATES		PARAMETER	CURVE DATA	
		NORTHING	EASTING		R.	(9)
P.C.	0+202.246	5531831.495	639748.548	R.	30.000	130.000
P.C.C.	0+212.397	5531828.517	639758.201	Δc	19°23'10"	9°48'46"
P.T.	0+234.661	5531827.528	639780.417	Tc	5.124	11.159
P.C.	0+275.577	5531829.212	639821.298	L.	10.151	22.284
P.T.	0+314.966	5531830.144	639860.676	L.C.	10.102	22.237

GA:\CAD\114588\Control\Current\02-Control Line Geometry.dwg

150 WM	WATERMAIN	150 WM	HYDRO	HYDRO	150 WM	WATERMAIN	150 WM	WATERMAIN
⊕	HYDRANT	⊕	MTS	MTS	+	HYDRANT	+	HYDRANT
⊗	VALVE	⊗	CONCRETE	CONCRETE	⊗	VALVE	⊗	VALVE
300 LDS	LAND DRAINAGE SEWER	300 LDS	ASPHALT	ASPHALT	300 LDS	LAND DRAINAGE SEWER	300 LDS	LAND DRAINAGE SEWER
250 WWS	WASTE WATER SEWER	250 WWS	PLANNING	PLANNING	250 WWS	WASTE WATER SEWER	250 WWS	WASTE WATER SEWER
○	MANHOLE	●	SIDEWALK	SIDEWALK	○	MANHOLE	○	MANHOLE
◻	CATCH BASIN	◻	PAVING STONES	PAVING STONES	◻	CATCH BASIN	◻	CATCH BASIN
▽	CURB INLET	▽	PARTIAL DEPTH REPAIR	PARTIAL DEPTH REPAIR	▽	CURB INLET	▽	CURB INLET
—	JUNCTIONS	—	PROPERTY LINE	PROPERTY LINE	—	JUNCTIONS	—	JUNCTIONS
—	CULVERT	—	SURVEY BAR	SURVEY BAR	—	CULVERT	—	CULVERT
100 GAS	GAS	100 GAS	CURB RAMP	CURB RAMP	100 GAS	GAS	100 GAS	GAS
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED

UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE

DATE

NOTE:

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY
3	ISSUED FOR TENDER	06/08/12	DBW
2	ISSUED FOR REVIEW	05/31/12	DBW
1	ISSUED FOR REVIEW	07/28/11	DBW

BENCHMARK: GEODETIC MARKER # 654321
N: 5531099.483 E: 639291.865

DESIGNED BY RTP

DRAWN BY TJH

CHECKED BY DBW

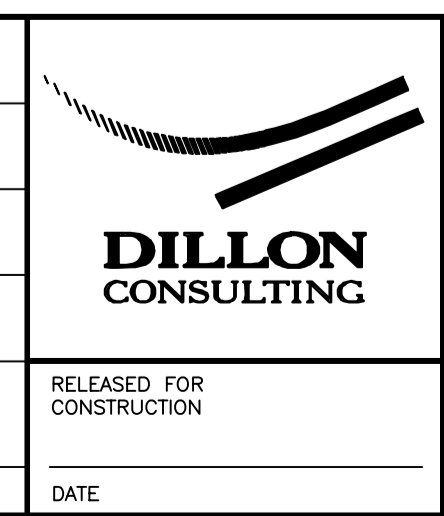
APPROVED BY DPK

HOR. SCALE 1:500

VERTICAL

RELEASED FOR CONSTRUCTION

DATE



ENGINEER'S SEAL

PROVINCE OF MANITOBA

REGISTERED PROFESSIONAL ENGINEER

T.J. PETERS

06/08/2012

Member 22309

CONSULTANT PROJECT NUMBER

11-4588

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

Winnipeg

ROUNDABOUT CONSTRUCTION
GRASSIE BOULEVARD AND MOLSON
STREET INTERSECTION

CITY DRAWING NUMBER
P-3329-02

SHEET 02 OF 24

CONSULTANT DRAWING NUMBER

CONTROL LINE GEOMETRY