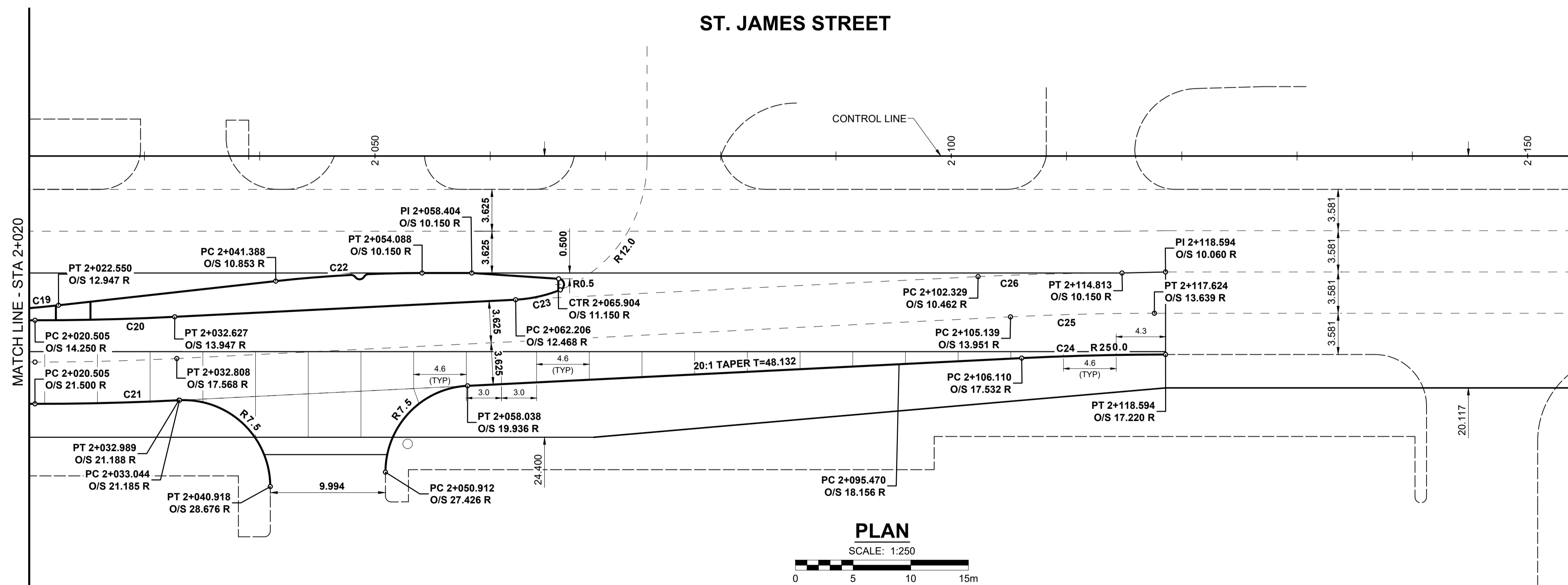


CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C13	115.600	12.792	6°20'25"	6.403
C14	115.000	12.726	6°20'25"	6.369
C15	12.000	18.914	90°18'30"	12.065
C16	14.500	22.699	89°41'30"	14.422
C17	16.000	25.047	89°41'30"	15.914
C18	14.500	22.855	90°18'30"	14.578
C19	115.000	12.726	6°20'25"	6.369
C20	242.750	12.128	2°51'45"	6.065
C21	250.000	12.490	2°51'45"	6.246
C22	115.000	12.726	6°20'25"	6.369
C23	12.000	3.996	19°04'51"	2.017
C24	250.000	12.490	2°51'45"	6.246
C25	250.000	12.490	2°51'45"	6.246
C26	250.000	12.490	2°51'45"	6.246



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	
	GAS		MANHOLE		CONCRETE PAVEMENT		LOCATION APPROVED		BM 38-002
	MTS HANDWELL/PEDESTAL		CATCH BASIN/CATCH PIT		CONC SIDEWALK/MEDIAN		UNDERGROUND STRUCTURES		ELEV 234.182 m
	HYDRO HANDWELL/CABINET		CURB INLET WITH BOX		ASPHALT PAVEMENT		DATE		74M633 - Tilt in E. wall of No. 1108 St. James St., 0.2 m S. of N.E. Cor. of Bldg.
	CATV/FIBRE OPTIC		TREE		PAVING STONE		SUPR. UG STRUCTURES COMMITTEE		MORRISON HERSHFIELD
	TRAFFIC SIGNALS/PIT		TEST HOLE		GRAVEL		NOTE:		R.P. BRUCE
	LAND DRAINAGE SEWER		PROPERTY LINE		RAMP CURB		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.		THE CITY OF WINNIPEG
	SANITARY/COMBINED SEWER		SURVEY BAR		PLANING/REMOVAL		DESIGNED BY		PUBLIC WORKS DEPARTMENT
	CB LEAD/SPP/DCP		FENCE		BOC/EDGE OF PAVEMENT		DRAWN BY		2019 REGIONAL STREET RENEWAL PROGRAM
	WATERMAIN		BOC/EDGE OF PAVEMENT		ELEVATION		CHECKED BY		ST. JAMES STREET RECONSTRUCTION
	SUBDRAIN		ELEVATION		TRAFFIC SIGN		APPROVED BY		50 m N OF ELLICE AVE TO 150 m N OF SARGENT AVE
	DITCH		TRAFFIC SIGN				RELEASED FOR CONSTRUCTION		HORIZONTAL GEOMETRY
							CONSULTANT FILE NAME		
							W170041-HG-02.dwg		

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR. UG 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
B	ISSUED FOR TENDER	19/05/17	RPB
A	ISSUED FOR CLIENT REVIEW	18/06/07	RPB

DESIGNED BY	CHECKED BY
WRJ	RPB
DRAWN BY	APPROVED BY
KMB	BWB
DATE	DATE
18/06/07	

PROFESSIONAL'S SEAL
PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER
R.P. BRUCE

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

2019 REGIONAL STREET RENEWAL PROGRAM
ST. JAMES STREET RECONSTRUCTION
50 m N OF ELLICE AVE TO 150 m N OF SARGENT AVE

CITY DRAWING NUMBER: P-3508-03
SHEET 3 OF 16
DRAWING NUMBER: 3

HORIZONTAL GEOMETRY
ST JAMES STREET - STA 1+890 TO STA 2+155