

GENERAL NOTES

- THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.
- 2. UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY OTHERS. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT.
- 3. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. ALL UTILITIES TO BE LOCATED IN THE FIELD AND MODIFIED AS NECESSARY TO TC-E-10 AND TC-E-11 STANDARDS.
- 4. ENVIRONMENTAL PROTECTION MEASURES AND PROCEDURES SHALL BE AS PER THE APPROPRIATE GOVERNMENT AND PROPERTY OWNER'S ENVIRONMENTAL GUIDELINES.
- 5. CONTRACTOR MUST MAINTAIN DRAINAGE AT ALL TIMES. PROPOSED CULVERTS LENGTHS AND ELEVATIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- 6. ALL BUSH WITHIN GRADING LIMITS TO BE REMOVED BY CONTRACTOR.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAING & REMOVING ANY TEMPORARY FACILITIES NECESSARY TO ACCESS THE SITE. INCLUDING, BUT NOT LIMITED TO, FENCES, GATES, CULVERT, GRANULAR, SILT FENCES & TRAFFIC CONTROL DEVICES.
- 8. ALL ACCESS WAYS MUST BE MAINTAINED TO A LEVEL THAT WILL PERMIT PASSAGE BY MAINTENANCE, ENGINEERING AND OPERATIONS VEHICLES AT ALL TIMES.
- 9. THE CONTRACTOR MUST LIMIT MOVEMENT OF CONSTRUCTION TRAFFIC TO WITHIN THE CONSTRUCTION LIMITS. ANY AND ALL DAMAGE TO EXISTING FACILITIES (INCLUDING, BUT NOT LIMITED TO, FENCES, PAVEMENT, CULVERTS ETC.) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- 10. SURVEY CONTROL IS BASED ON UTM ZONE 14 NAD 83. DUE CARE MUST BE MADE TO PREVENT DESTRUCTION OR ALTERATION OF SITE CONTROL. IF UNAVOIDABLE THE CONTRACT ADMINISTRATOR ON SITE MUST BE NOTIFIED IMMEDIATELY.
- 11. ADDITIONAL CULVERTS TO BE FIELD LOCATED, AS DIRECTED BY THE CONTRACT ADMINISTRATOR AND EXISTING DRAINAGE PATTERNS TO REMAIN.
- 12. ALL PROPERTY LINES ARE PROVIDED FOR INFORMATION PURPOSES ONLY.

DRAWING UNITS

ALL UNITS ARE IN METRIC (m) UNLESS NOTED OTHERWISE TO CONVERT METRIC DIMENSIONS TO FEET DIVIDE BY 0.3048

ABBREVIATIONS

PS

PVI

PVIE

PVIS

POINT OF SWITCH

POINT OF VERTICAL INTERSECTION

POINT OF VERTICAL INTERSECTION ELEVATION

POINT OF VERTICAL INTERSECTION STATION

BEGIN CURVE BENCHMARK ROW / R/W RIGHT OF WAY BEGIN VERTICAL CURVE SPIRAL TO CURVE **BVCE** BEGIN VERTICAL CURVE ELEVATION STORM SEWER **BVCS** BEGIN VERTICAL CURVE STATION CATCHBASIN ST SPIRAL TO TANGENT CENTERLINE TAN **TANGENT** CLF CHAIN LINK FENCE TO TURNOUT CS CURVE TO SPIRAL TANGENT TO SPIRAL CORRUGATED STEEL PIPE CSP T/R TOP OF RAIL CONC CONCRETE TWP TOWNSHIP CONTROL POINT TYP. **TYPICAL** CULV CULVERT UNDERGROUND DEGREE OF CURVE (CHORD DEFINITION) XING Dc RAILWAY CROSSING DWG DRAWING VAR. **VARIES OR VARIABLE** END CURVE **VERTICAL CURVE** EL. / ELEV. ELEVATION DIAMETER END VERTICAL CURVE wws **WASTE WATER SEWER EVCE** END VERTICAL CURVE ELEVATION WATERMAIN END VERTICAL CURVE STATION **EVCS** SIGNAL AND COMMUNICATION S&C EXIST. EXISTING CITY OF WINNIPEG COW GRAN. GRANULAR HIGH DENSITY POLYETHYLENE HDPE INV. INVERT (PIPE or DITCH) LH LEFT HAND MANHOLE MAX. MAXIMUM MID. MIDDLE MIN. MINIMUM MILEAGE NOT IN CONTRACT ORIGINAL / EXISTING GROUND O/H or OH OVERHEAD POINT OF INTERSECTION **PROP** PROPOSED

LECEND

FOR SHOOFLY AND FINAL EMBANKMENT DRAWING								
EXISTING	DESCRIPTION	PROPOSED	EXISTING	DESCRIPTION	PROPOS			
←	POWER SWITCH	•=		CONTOURS AND LABELS DISPLAYED AT 0.5m INTERVALS				
	CROSSING PLANKS	<u> </u>	www	TREE LINE, BUSHES & SHRUBS				
	CENTRELINE MAIN			GRAVEL ROADWAY				
	CENTRELINE SPUR			GRADING REQUIREMENTS (DOWNSLOPE)				
	RAIL REMOVE		он _●РР	OVERHEAD POWER LINE WITH POLE				
	RAIL RELIGN		CNT	OVERHEAD CN UTILITY CABLE				
△ CP 000	SURVEY CONTROL POINT		т	UNDERGROUND TELEPHONE LINE				
MH	MANHOLE		UG S&C	UNDERGROUND S & C CABLE				
\longrightarrow	DITCH FLOW DIRECTION	→	Р	UNDERGROUND POWER LINE				
>	CULVERT	>	///	U/G FIBRE OPTIC LINE (CN / ROGERS)	111			
● ^{CB}	CATCH BASIN	● CB	BELL-	U/G FIBRE OPTIC LINE (BELL)	DELL			
TELE PED	TELEPHONE PEDESTAL			U/G FIBRE OPTIC LINE (OTHERS)				
<u>`</u> O(LIGHT POLE			PROPERTY LINE				
× × ×	SECURITY FENCE	x x x		RAILWAY R/W				
	NORTH DITCH			CONSTRUCTION EASEMENT				
	SOUTH DITCH				1			

SURVEY CONTROL POINTS						
CONTROL POINT	LOCATION	ELEVATION	NORTHING	EASTING		
GBM_654006	GEODETIC BENCH MARK AT NW CORNER OF WAVERLY STREET DIVERSION AT WILKES AVENUE.	232.796	5523226.155	630879.436		
GBM_654008	GEODETIC BENCH MARK AT SE CORNER OF GRANT AVENUE AT CAMBRIDGE STREET.	232.899	5524205.657	631153.515		
,	NOTE: SURVEY CONTROL IS BASED ON LOCALIZED COOF	RDINATES.				

UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES DATE	B.M. ELEV.		AECOM		ENGINEER'S SEAL	THE CITY OF W PUBLIC WORKS DEP		
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.			DESIGNED BY DRAWN	_	CHECKED BY —		CONTRACT 2: UNDERPASS STRUCTURE, RAILWORKS,	CITY DRAWING NUMBER U-239-2016-C2-CR-001
		BY	BY - BY	BY —	CONSULTANT PROJECT NUMBER	ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS	SHEET OF 55	
	NE.	HOR. SCALE VERTICAL	NTS	RELEASED FOR CONSTRUCTION			CONSULTANT DRAWING NUMBER	
	0 ISSUED FOR TENDER	17/01/09 DBW	VERTICAL			16-3353	SHOOFLY STA. 0+000 to STA. 6+712.360	C2-CR-001
	NO. REVISIONS	DATE BY	DATE	_	DATE	10-3333		32 3 1(33)