



WARNING
 IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
 SEE PROVINCIAL REGULATION 140/92 FOR DETAILS

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

CONSTRUCTION NOTES:

- ALL SEWERS TO BE INSTALLED BY TRENCHLESS METHODS.
- INSTALLATION OF WWS TEES AND RISERS AT LOCATIONS NOTED, NO WASTEWATER SEWER SERVICES TO BE INSTALLED.
- WWS TEE LOCATIONS TO BE VERIFIED IN THE FIELD BY CONTRACT ADMINISTRATOR BASED ON EXISTING SEPTIC TANK LOCATIONS AND FUTURE SEWER CONNECTIONS FROM CORNERSTONE ESTATES (BY OTHERS).
- NO WATER SERVICES OR CORPORATION STOPS TO BE INSTALLED UNDER THIS CONTRACT.
- EXCAVATIONS WITHIN 1.0m OF PAVEMENT OR DRIVEWAYS TO BE BACKFILLED WITH CLASS 3 MATERIAL.
- SEE DWG. D-11871 FOR TYPICAL HYDRANT / MANHOLE APPROACH DETAIL, ALL PROPOSED CSP's TO 450 mm Ø.
- SEE DWG. D-11871 FOR DITCH CATCH BASIN DETAIL.
- CONTRACTOR TO RESTORE DITCHES TO PRECONSTRUCTION CONDITION AND AS PER SPECIFICATION.

NOTE:
 STATIONING IS ALONG S. P/L OF KNOWLES AVE.
 BID OPPORTUNITY 678-2009



150 WM		150 WWS		HYDRO		150 WM		150 WWS	
+	WATERMAIN	+	WATERMAIN	- - -	HYDRO	+	WATERMAIN	+	WATERMAIN
⊕	HYDRANT	⊕	HYDRANT	---	M.T.S.	+	HYDRANT, VALVE	+	HYDRANT, VALVE
⊙	VALVE	⊙	VALVE	■	CONCRETE	+	LAND DRAINAGE SEWER	+	LAND DRAINAGE SEWER
⊠	LAND DRAINAGE SEWER	⊠	LAND DRAINAGE SEWER	-	ASPHALT	+	WASTE WATER SEWER	+	WASTE WATER SEWER
⊖	WASTE WATER SEWER	⊖	WASTE WATER SEWER	---	SIDEWALK	+	Q PROFILE	+	Q PROFILE
○	MANHOLE	○	MANHOLE	- · - · -	PROPERTY LINE	⊔	NORTH OR WEST GUTTER	⊔	NORTH OR WEST GUTTER
⊠	CATCH BASIN	⊠	CATCH BASIN	- · - · -	SURVEY BAR	⊔	SOUTH OR EAST GUTTER	⊔	SOUTH OR EAST GUTTER
▽	CURB INLET	▽	CURB INLET	+	DITCH	+	NORTH OR WEST IP	+	NORTH OR WEST IP
+	JUNCTIONS	+	JUNCTIONS	+	ELEVATION	+	SOUTH OR EAST IP	+	SOUTH OR EAST IP
+	CULVERT	+	CULVERT	+	DITCH ELEVATION	+	NORTH OR WEST DITCH	+	NORTH OR WEST DITCH
+	GAS	+	GAS	+	DITCH SLOPE	+	SOUTH OR EAST DITCH	+	SOUTH OR EAST DITCH
EX	EXISTING	PR	PROPOSED	EX	EXISTING	PR	PROPOSED	EX	EXISTING

LOCATION APPROVED 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.

B.M. 08-17 ELEV. 230.627 m

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 DRAWN BY: B.K.W. APPROVED BY: H.A.K.
 HOR. SCALE: 1:250
 VERTICAL: 1:50
 RELEASED FOR CONSTRUCTION: DATE

ENGINEER'S SEAL
 CONSULTANT DRAWING NO. C-203

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENGINEERING DIVISION

KNOWLES AVENUE LOCAL IMPROVEMENT
 RALEIGH STREET TO DE VRIES AVENUE
 179.2m W OF WL OF SUNNY MORNING RD.
 TO 29.2m W OF WL OF SUNNY MORNING RD.
 WATERMAIN, LAND DRAINAGE AND WASTEWATER SEWER

SHEET 3 OF 8
 CAD FILE DRAWING NUMBER I1730c-201-712.dwg
 CITY DRAWING NUMBER D-11866

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