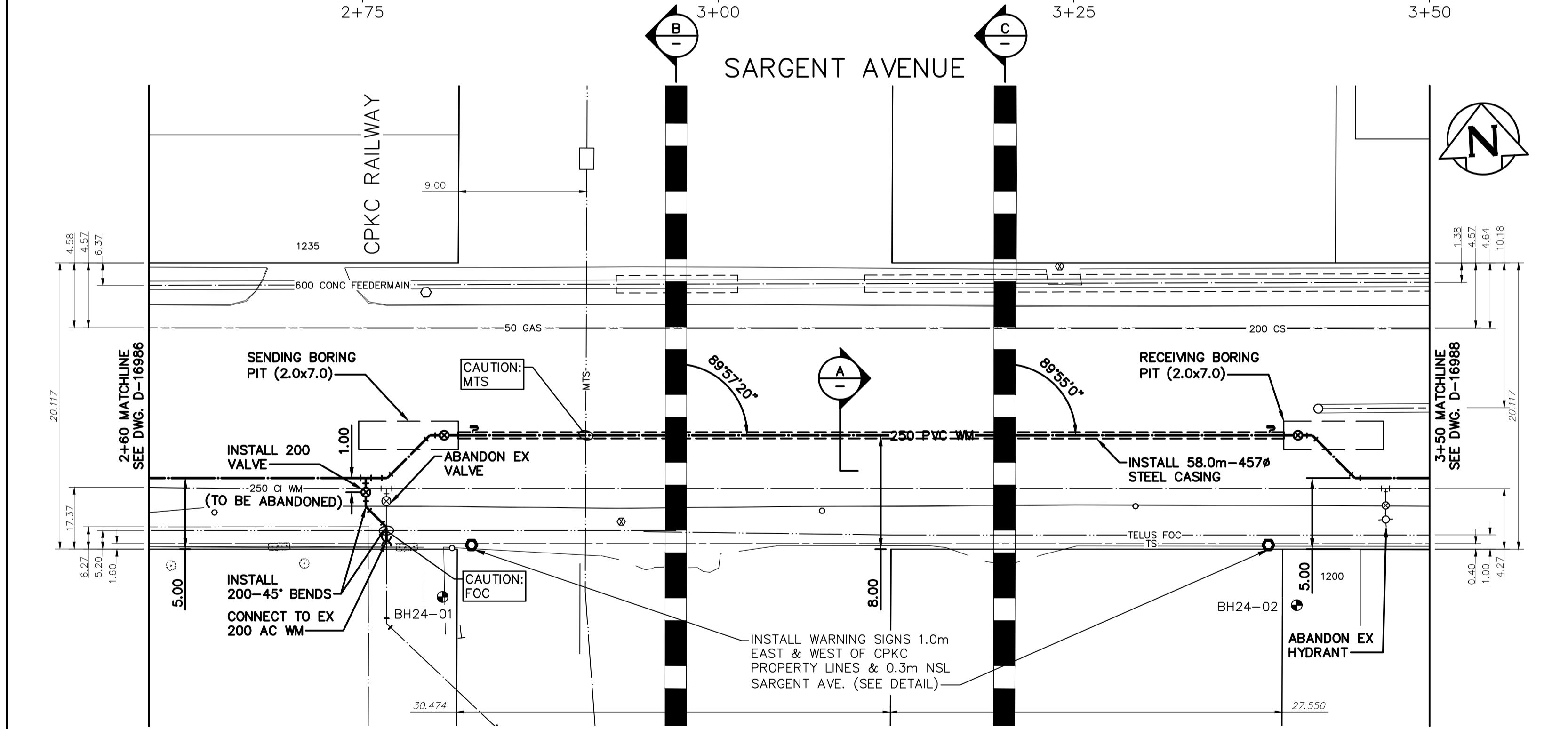


- NOTES:**
- RAILWAY CROSSING TO BE CONSTRUCTED AND MAINTAINED, IN ACCORDANCE WITH CANADIAN TRANSPORT AGENCY GENERAL ORDER E-10.
 - EMERGENCY VALVE LOCATION, 1.0m WEST & 1.0m EAST OF CROSSING.
 - EXISTING 250 CI WATERMAIN TO BE FILLED WITH CEMENT STABILIZED FLOWABLE FILL WITHIN C.P.R. RIGHT OF WAY.
 - CONTRACTOR TO SUBMIT A SHOP DRAWING OF SHORING THAT IS CAPABLE OF SUPPORTING THE EXCAVATION WALL CLOSEST TO THE CP RAIL RIGHT OF WAY UNDER AASHTO HS20 LOADING. SHOP DRAWINGS TO BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - INSTALL WARNING SIGNS AT EACH EDGE OF RAILWAY RIGHT-OF-WAY.
 - CASING PIPE TO BE CATHODICALLY PROTECTED WITH 10.9kg SACRIFICIAL ZINC ANODES ON BOTH ENDS.
 - CASING PIPE TO BE INSTALLED BY JACK AND BORE TRENCHLESS CONSTRUCTION WITH A MINIMUM THREE DIAMETER SOIL PLUG BEHIND THE LEADING EDGE OF THE PIPE.
- WATER CARRIER PIPE INFO FOR C.P.R. CROSSING**
- DIAMETER - 250mm
 - MATERIAL - PVC
 - WALL THICKNESS = 15.7mm
 - PIPE CLASS - AWWA C900 DR 18
 - SURGE PRESSURE = 300 PSI (2.0MPa)
 - OPERATING PRESSURE = 60 PSI (0.4 MPa)
 - TEST PRESSURE = 150 PSI (1.0MPa)
 - INSTALLATION METHOD - BORING
- CASING PIPE INFO**
- OUTSIDE DIAMETER - 457mm
 - MATERIAL - BLACK STEEL ASTM 53
 - WALL THICKNESS - 6.35mm
 - YIELD STRENGTH - 241 MPa
 - INSTALLATION METHOD - JACKING
- OWNER CONTACT INFORMATION**
- CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 RYAN LUCKY, P. ENG.
 DESIGN AND CONSTRUCTION ENGINEER
 110 - 1199 PACIFIC AVENUE
 WINNIPEG, MB
 R3E 3S8
 TEL:(204) 986-2538
 FAX:(204) 986-5345



NOTE: CHAINAGES SHOWN ARE ALONG CENTERLINE OF ROW

NOTE: VALVES TO BE INSTALLED COUNTER-CLOCKWISE TO CLOSE

FOR INDEX SEE D-16984

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

ENGINEERS
 GEOSCIENTISTS
 MANITOBA
 Certificate of Authorization
 Stantec Consulting Ltd.
 No. 1301

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.

BENCHMARK 37-022
 ELEV=234.045 m
 S.E. COR. SARGENT AVE. & EMPRESS ST., TBLT. IN W. CONC. FOUNDATION NO. 1270 SARGENT AVE., 1m S. & 0.1m BELOW CONC. BLOCKS OF N.W. COR. OF BLDG.

VERTICAL DATUM: CGVD28 (HT2.0 Geoid)
 HORIZONTAL DATUM: NAD83 (June 1990), Zone 14

DESIGNED BY	R.S.	CHECKED BY	W.B.
DRAWN BY	W.A.	APPROVED BY	R.S.
SCALE:		RELEASED FOR CONSTRUCTION	R.L.
HORIZONTAL	1:250		
VERTICAL	1:50		
DATE	2024.04.25	DATE	2024.04.25

ISSUED FOR TENDER 2024.04.25 R.S.

NO. REVISIONS DATE BY

00

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER C-203

TENDER NUMBER: 193-2024

Stantec

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENGINEERING DIVISION

2024 WATER MAIN RENEWALS
 CONTRACT 8

SARGENT AVENUE
 12.6 E OF SANFORD STREET TO
 102.6 E OF SANFORD STREET

SHEET 5 OF 10
 CITY DRAWING NUMBER D-16987

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