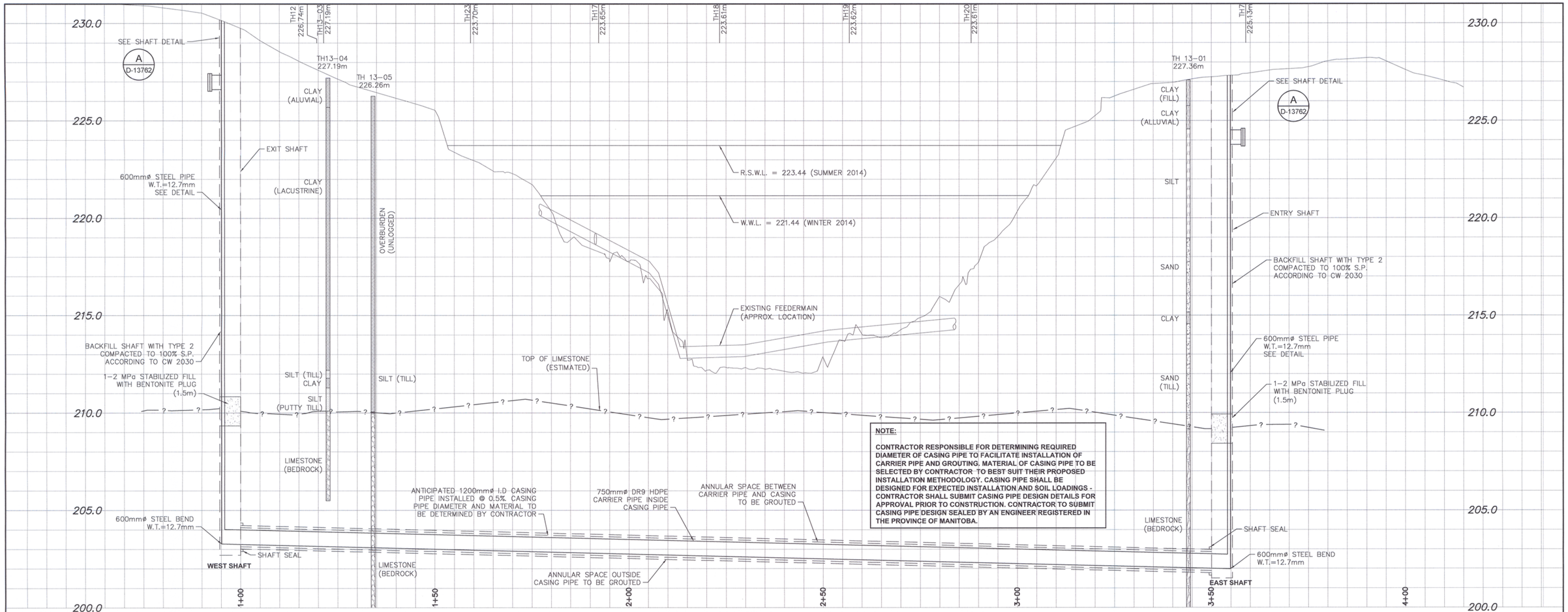
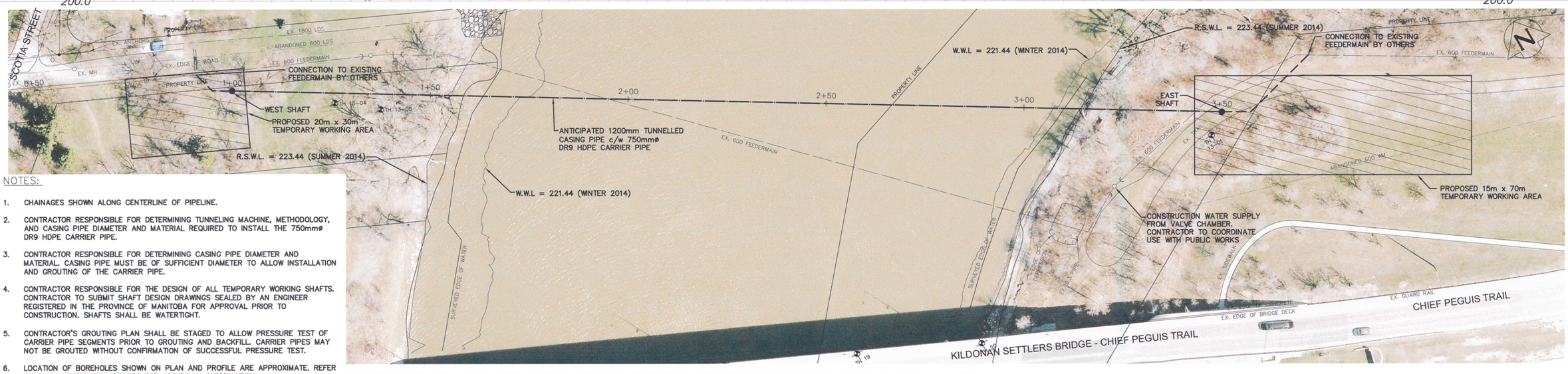


NOTE:

CONTRACTOR RESPONSIBLE FOR DETERMINING REQUIRED DIAMETER OF CASING PIPE TO FACILITATE INSTALLATION OF CARRIER PIPE AND GROUTING. MATERIAL OF CASING PIPE TO BE SELECTED BY CONTRACTOR TO BEST SUIT THEIR PROPOSED INSTALLATION METHODOLOGY. CASING PIPE SHALL BE DESIGNED FOR EXPECTED INSTALLATION AND SOIL LOADINGS - CONTRACTOR SHALL SUBMIT CASING PIPE DESIGN DETAILS FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR TO SUBMIT CASING PIPE DESIGN SEALED BY AN ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.



NOTES:

1. CHAINAGES SHOWN ALONG CENTERLINE OF PIPELINE.
2. CONTRACTOR RESPONSIBLE FOR DETERMINING TUNNELING MACHINE, METHODOLOGY, AND CASING PIPE DIAMETER AND MATERIAL REQUIRED TO INSTALL THE 750mmø DR9 HDPE CARRIER PIPE.
3. CONTRACTOR RESPONSIBLE FOR DETERMINING CASING PIPE DIAMETER AND MATERIAL. CASING PIPE MUST BE OF SUFFICIENT DIAMETER TO ALLOW INSTALLATION AND GROUTING OF THE CARRIER PIPE.
4. CONTRACTOR RESPONSIBLE FOR THE DESIGN OF ALL TEMPORARY WORKING SHAFTS. CONTRACTOR TO SUBMIT SHAFT DESIGN DRAWINGS SEALED BY AN ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA FOR APPROVAL PRIOR TO CONSTRUCTION. SHAFTS SHALL BE WATERTIGHT.
5. CONTRACTOR'S GROUTING PLAN SHALL BE STAGED TO ALLOW PRESSURE TEST OF CARRIER PIPE SEGMENTS PRIOR TO GROUTING AND BACKFILL. CARRIER PIPES MAY NOT BE GROUTED WITHOUT CONFIRMATION OF SUCCESSFUL PRESSURE TEST.
6. LOCATION OF BOREHOLES SHOWN ON PLAN AND PROFILE ARE APPROXIMATE. REFER TO SOIL INVESTIGATION REPORT FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL USE EAST SHAFT AS ENTRY SHAFT. WEST SHAFT SHALL BE RESTRICTED TO MACHINE RETRIEVAL ONLY.
8. RIVER FLOOD PROTECTION LEVEL (F.P.L.) IS APPROXIMATELY 229.3m. CONTRACTOR SHALL SECURE SITE IN THE EVENT OF ANY HIGH RIVER ELEVATIONS THAT MAY IMPACT WORK.

METRIC
WHOLE NUMBERS INDICATE MILLIMETERS
DECIMALIZED NUMBERS INDICATE METERS
0.0 10.0 20.0 30.0 40.0 50.0

APEGM
Certificate of Authorization
Associated Engineering (Sask.) Ltd.
No. 396 Date: FEBRUARY 20, 2015

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 210/72 FOR DETAILS

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.
ELEV.

CONSTRUCTION COMPLETION DATE: YYYY MM DD

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	15-FEB-20	KG

Associated Engineering

DESIGNED BY	CL	CHECKED BY	JL
DRAWN BY	KG	APPROVED BY	JL
SCALE: HORIZONTAL 1:500 VERTICAL 1:100		RELEASED FOR CONSTRUCTION	
DATE	2015 02 20	DATE	

PLOT DATE: 2015 02 20

ENGINEER'S SEAL
PROVINCE OF MANITOBA
J.S. LUEKE
Member 36827
REGISTERED PROFESSIONAL ENGINEER
FEB 20 2015

CONSULTANT DRAWING NUMBER
20134376

BID OPPORTUNITY: 89-2015
CONTRACT NUMBER:

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

NORTH KILDONAN FEEDERMAIN REPLACEMENT
ALT. 2: MICRO-TUNNELING PLAN & PROFILE
RED RIVER CROSSING
1+00 TO 3+50

SHEET 3 OF 4

CITY DRAWING NUMBER
D-13761

FILE PATH: \\s-wpg-fs-01\projects\20134376\00_NK_Feedermain\Working_Dwgs\100_Civil\
FILE NAME: D-13761.dwg