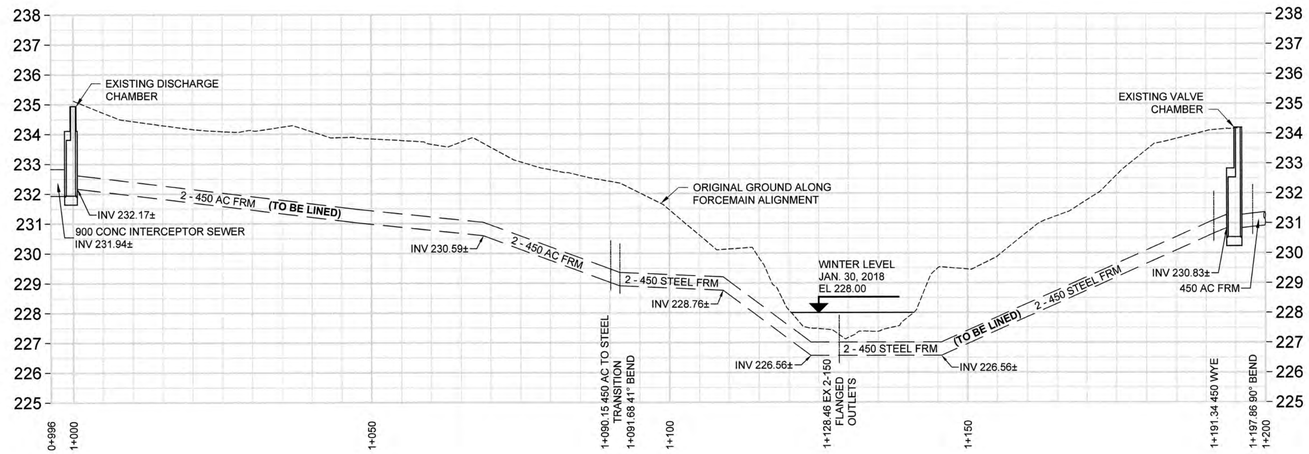
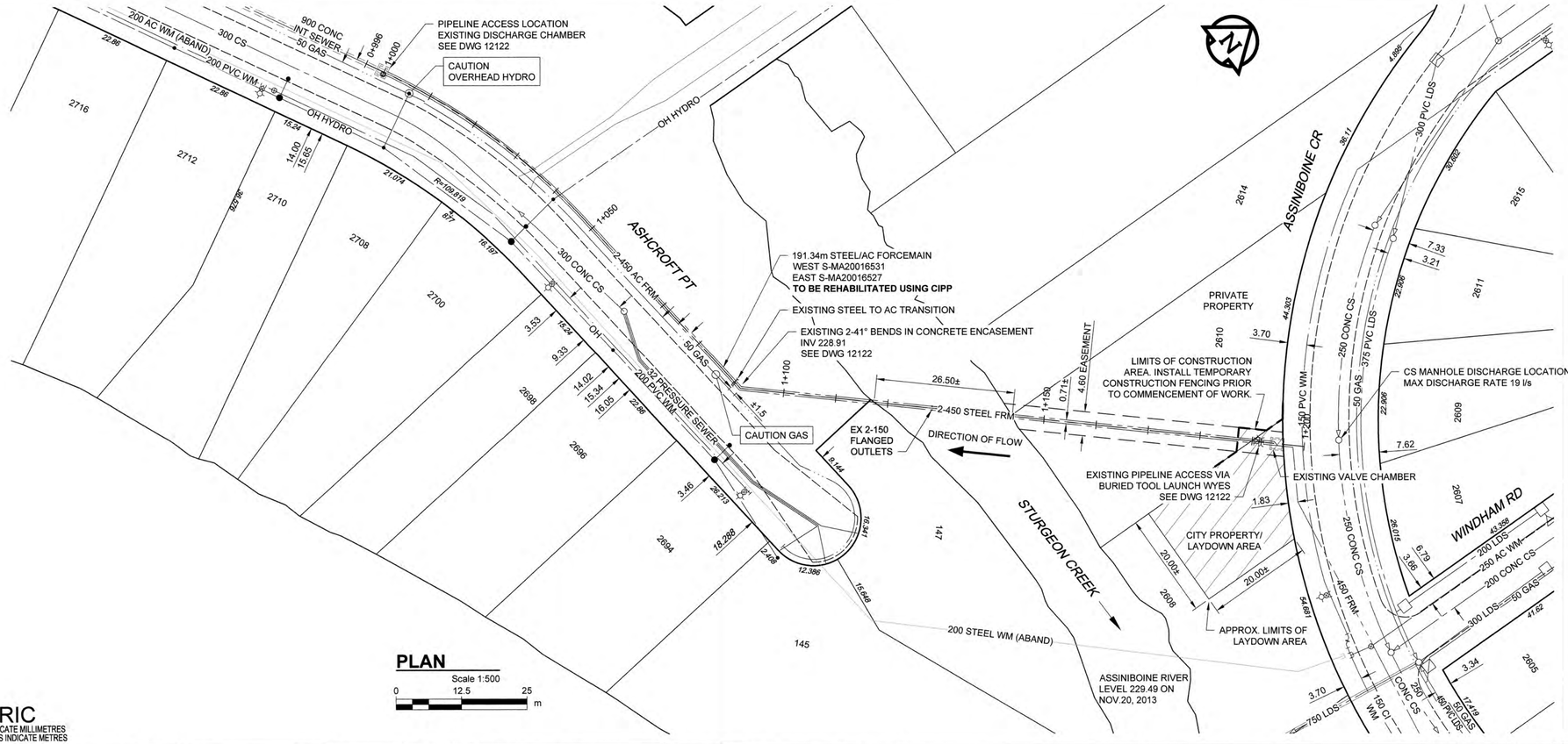
D SIZE 22" x 34" (559mm x 864mm)





PLAN

Scale 1:500

0 12.5 25 m

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PROFILE	NEW
150 WM	WATERMAIN	150 WM		CURB STOP		150 WM	WATERMAIN	150 WM
	HYDRANT			REDUCER			HYDRANT	
	VALVE			COUPLING			VALVE	
300 LDS	LAND DRAINAGE SEWER	300 LDS		ANODE		300 LDS	LAND DRAINAGE SEWER	300 LDS
250 WWS	WASTE WATER SEWER	250 WWS		HYDRO		250 WWS	WASTE WATER SEWER	250 WWS
	MANHOLE			MTS			PAVEMENT CROWN	
	CATCH BASIN			GAS			N/W PROPERTY LINE	
	CURB INLET			TESTHOLE			S/E PROPERTY LINE	
	CULVERT			LAMP STANDARD			N/W GUTTER	
	PIPE ABANDONMENTS			TREE			S/E GUTTER	
	SURVEY BAR							

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPR. 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.

NO.	REVISIONS	YY/MM/DD	BY
0	ISSUED FOR CONSTRUCTION	19/06/13	KLC

AECOM

DESIGNED BY	ADB	CHECKED BY	
DRAWN BY	KLC	APPROVED BY	
HOR. SCALE	1:500	RELEASED FOR CONSTRUCTION	
VERT. SCALE	N/A	DATE	19-06-14

PROFESSIONAL'S SEAL

PROVINCE OF MANITOBA — A. D. BRAUN — Member 24453 — REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.
60580516-SHT-30-0000-C-1001

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

REHABILITATION OF THE ST. JAMES INTERCEPTOR FORCE MAIN SIPHON BY CIPP

PLAN / PROFILE

SHEET 1 OF 2

CITY DRAWING NUMBER 12121 REV 0

CONSTRUCTION NOTES:

- WATER COLLECTED DURING CONSTRUCTION MAY BE DISCHARGED INTO THE COMBINED SEWER MANHOLE SHOWN ON THE DRAWINGS ON ASSINIBOINE CRESCENT AT A MAXIMUM FLOW RATE OF 19 l/s OR TO THE 900 mm INTERCEPTOR SEWER ON ASHCROFT POINT.
- RESTORE BOULEVARDS, SIDEWALKS, AND ROADWAYS UPON COMPLETION OF WORK.
- THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING ALONG THE LIMITS OF THE WORK AREA NOTED ON THIS DRAWING ALONG ASSINIBOINE CRESCENT. THE CONTRACTOR SHALL NOT WORK ON PRIVATE PROPERTY OUTSIDE OF THE LIMITS IDENTIFIED ON THE DRAWINGS.
- THE CONTRACTOR SHALL MAKE ALL EFFORTS TO PROTECT EXISTING LANDSCAPING AT 2610 ASSINIBOINE CRESCENT.
- THE FORCE MAINS MAY BE DEWATERED TO FACILITATE WORK.
- PIPELINE ACCESS FOR REHABILITATION SHALL BE AT THE FOLLOWING LOCATIONS:
  - EXISTING TOOL LAUNCH WYE'S ADJACENT TO THE EXISTING VALVE CHAMBER ON ASSINIBOINE CRESCENT.
  - EXISTING DISCHARGE MANHOLE ON ASHCROFT POINT.
- REMOVAL AND REINSTALLATION OF THE EXISTING 41° MITERED STEEL BENDS MAY BE REQUIRED SHOULD DETRIMENTAL LINER DEFECTS BE PRESENT AT THIS LOCATION. SEVERITY OF DEFECTS WILL BE EVALUATED JOINTLY BY THE CONTRACT ADMINISTRATOR AND CONTRACTOR. IF REQUIRED, THE BENDS SHALL BE EXCAVATED AND CUT FROM THE PIPE, THE DEFECTS REPAIRED, AND THE BENDS REINSTALLED AS SHOWN ON DWG 12122.
- CIPP INSTALLATION REQUIREMENTS:
  - WATER INVERSION AND HOT WATER CURE INSTALLATION METHODS ONLY.
  - A CONTINUOUS LENGTH TEMPERATURE MONITORING SYSTEM SHALL BE UTILIZED DURING LINER CURING.
  - LINER INVERSION MAY BE COMPLETED IN EITHER DIRECTION.
- LINER END SEALS SHALL BE INSTALLED AT BOTH THE UPSTREAM AND DOWNSTREAM ENDS OF THE LINERS.
- EXISTING LAUNCH WYES MAY BE REMOVED TO FACILITATE LINING, BUT MUST BE REINSTALLED UPON COMPLETION OF WORK AND PRIOR TO REINSTATEMENT OF FLOWS.
- PRESSURE TEST REQUIRED AFTER LINER INSTALLATION.
- THE FOLLOWING SAMPLES ARE TO BE COLLECTED:
  - CONFINED PIPE SAMPLE
  - PLATE SAMPLES

CONSTRUCTION SEQUENCING:

1. DEVELOP PIPELINE ACCESS.
2. REMOVE EAST OR WEST FORCE MAIN FROM SERVICES. VALVE OPERATIONS TO BE UNDERTAKEN BY CITY STAFF ONLY.
3. INSTALL FLOW DIVERSION WITHIN DISCHARGE CHAMBER (AS NECESSARY).
4. COMPLETE REHABILITATION WORKS ON THE ISOLATED FORCE MAIN.
5. OBTAIN POST-LINING INSPECTION ON ISOLATED FORCE MAIN AND SUBMIT FOR REVIEW BY CONTRACT ADMINISTRATOR.
6. COMPLETE PRESSURE TEST
7. UPON ACCEPTANCE OF POST-LINING INSPECTION AND PRESSURE TEST FOR THE ISOLATED FORCE MAIN:
   a. REINSTATE FORCE MAIN FLOWS AND ISOLATE SECOND FORCE MAIN.
   b. SWAP FLOW DIVERSIONS IN DISCHARGE CHAMBER (AS NECESSARY).
   c. REPEAT STEPS 4 THROUGH 6.
8. UPON ACCEPTANCE OF BOTH POST-LINING INSPECTIONS:
   d. REMOVE FLOW DIVERSIONS IN DISCHARGE CHAMBER.
   e. REINSTATE FORCE MAIN FLOWS.
9. RESTORE SITE

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date June 13/19

TENDER NO. 237-2019

PLOT: 6/13/2019 3:06:33 PM
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