



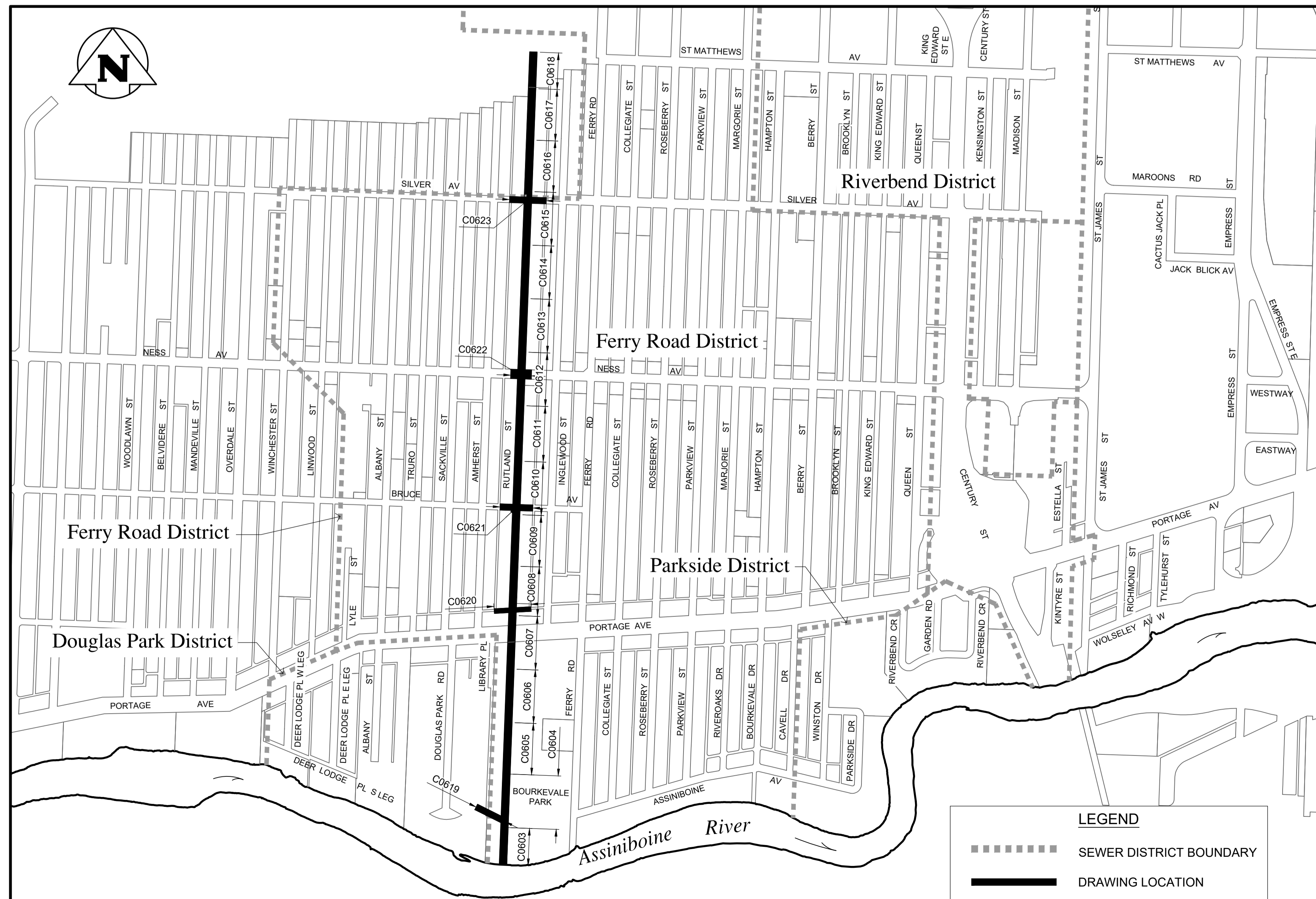
# THE CITY OF WINNIPEG

## WATER AND WASTE DEPARTMENT

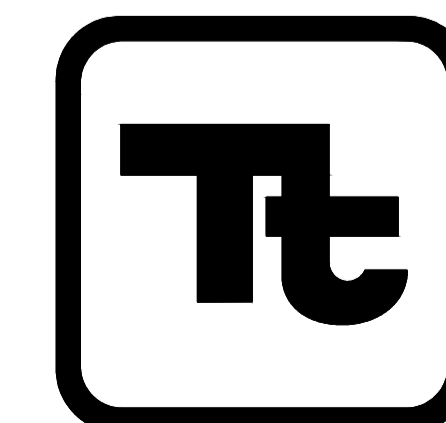
### FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6 - RUTLAND TRUNK SEWER REQUEST FOR QUALIFICATION No. 286 - 2024A

#### DRAWING LIST

CITY DRAWING No.	CONSULTANT DRAWING No.	STREET	TITLE
LD-13017	C0601		COVER SHEET AND DRAWING INDEX
LD-13018	C0602		LEGEND & ABBREVIATIONS
LD-13019	C0603	RUTLAND SEWER OUTFALL	ASSINIBOINE RIVER TO 100m N OF ASSINIBOINE RIVER
LD-13020	C0604	BOURKEVALE PARK	ASSINIBOINE RIVER TO 230m N OF ASSINIBOINE RIVER
LD-13021	C0605	BOURKEVALE PARK	FROM STA 0+640 TO STA 0+765
LD-13022	C0606	BOURKEVALE PARK	FROM STA 0+765 TO STA 0+895
LD-13023	C0607	RUTLAND STREET	65m S OF PORTAGE AVE TO 25m N OF PORTAGE AVE
LD-13024	C0608	RUTLAND STREET	25m N OF PORTAGE AVE TO 104m N OF PUBLIC LANE
LD-13025	C0609	RUTLAND STREET	104m N OF PUBLIC LANE TO 15m S OF BRUCE AVE
LD-13026	C0610	RUTLAND STREET	15m S OF BRUCE AVE TO 105m N OF BRUCE AVE
LD-13027	C0611	RUTLAND STREET	105m N OF BRUCE AVE TO 65m S OF NESS AVE
LD-13028	C0612	RUTLAND STREET	65m S OF NESS AVE TO 43m N OF NESS AVE
LD-13029	C0613	RUTLAND STREET	43m N OF NESS AVE TO 130m N
LD-13030	C0614	RUTLAND STREET	FROM STA 1+795 TO 101m S OF SILVER AVE
LD-13031	C0615	RUTLAND STREET	101m S OF SILVER AVE TO 14m N OF SILVER AVE
LD-13032	C0616	RUTLAND STREET	14m N OF SILVER AVE TO 125m N
LD-13033	C0617	RUTLAND STREET	14m N OF SILVER AVE TO 250m N
LD-13034	C0618	RUTLAND STREET	N/L OF RUTLAND ST TO PROJECTION OF N/L OF ST MATTHEWS AVE
LD-13035	C0619	DOUGLAS PARK PATH	600 LDS
LD-13036	C0620	PUBLIC LANE N OF PORTAGE AVE	450 AND 1200 LDS
LD-13037	C0621	BRUCE AVE	600 LDS
LD-13038	C0622	NESS AVE	1050 CS
LD-13039	C0623	SILVER AVE	1200 AND 900 LDS
LD-13040	C0624		MANHOLE AND SHAFT DETAILS



**PRELIMINARY DESIGN  
NOT TO BE USED FOR CONSTRUCTION**

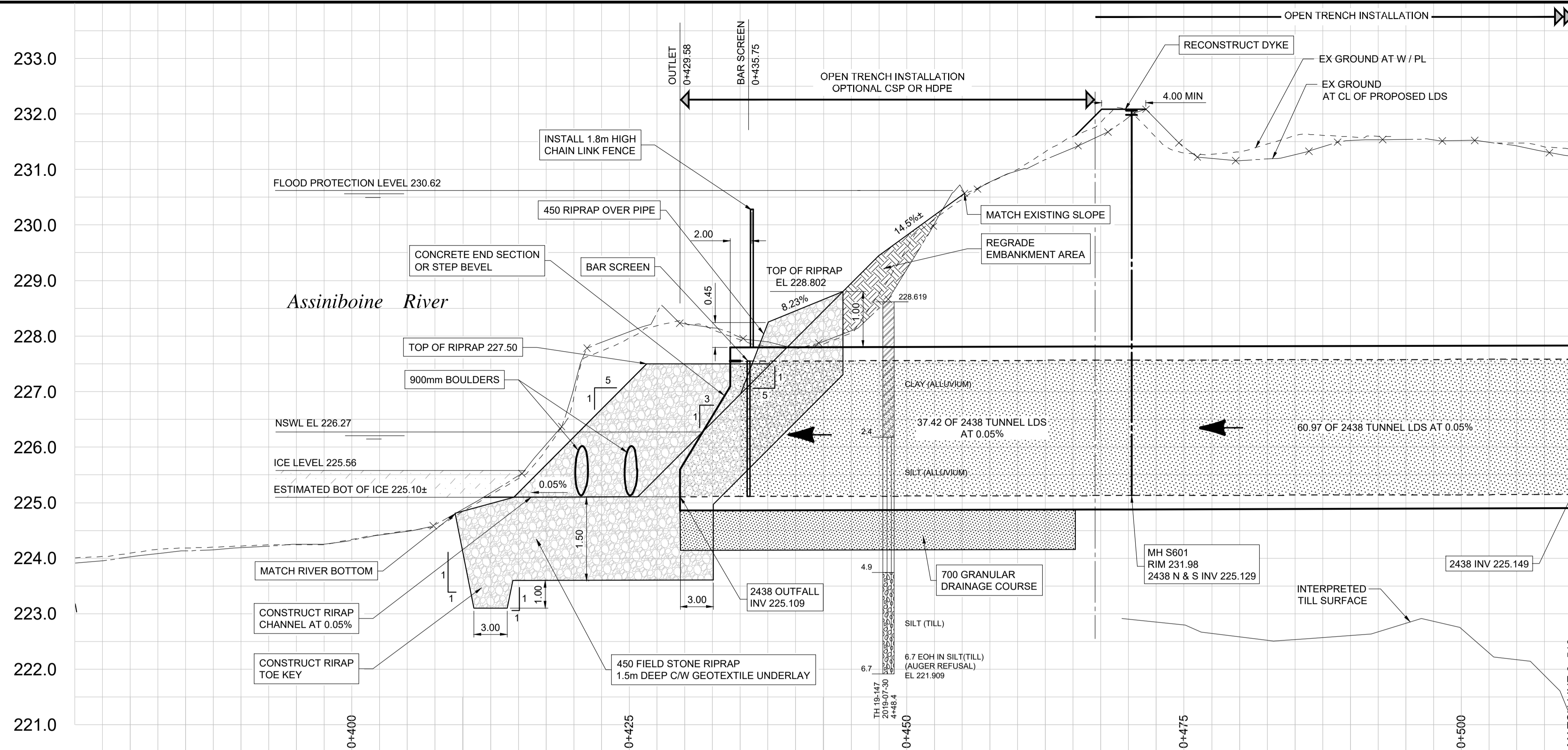


**TETRA TECH**

LD-13017  
PRELIMINARY DRAWINGS



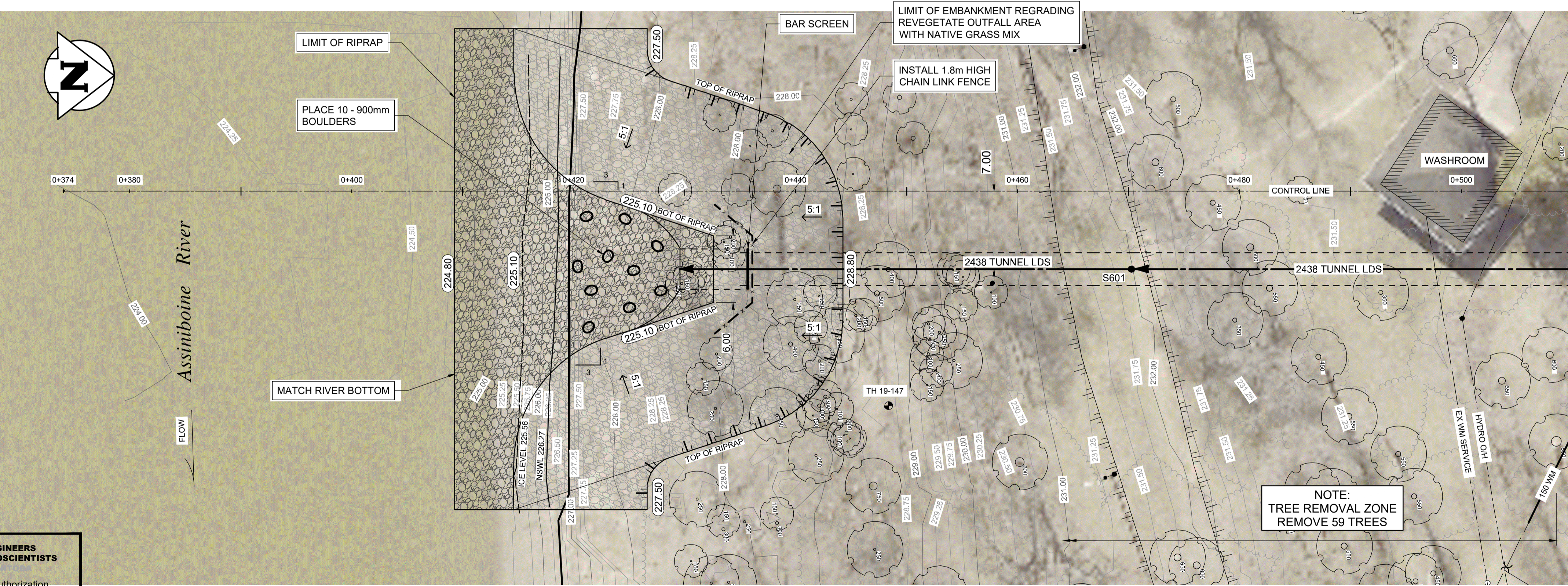
X:\A\GICITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 1001210001203.00 - FERRY ROAD/CONTRACT 6/CAD/FR CONT 6 PRODUCTION DRAWINGS/C0603 1000120300-DWG-C0603 OUTFALL DWG 2024-05-28 10:59 AM



233.0  
232.0  
231.0  
230.0  
229.0  
228.0  
227.0  
226.0  
225.0  
224.0  
223.0  
222.0  
221.0

- CONSTRUCTION NOTES:**
1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.

- GENERAL NOTES:**
1. CHAINAGE IS ALONG EXTENSION OF WEST LIMIT OF RUTLAND ST.
  2. STATION +1000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

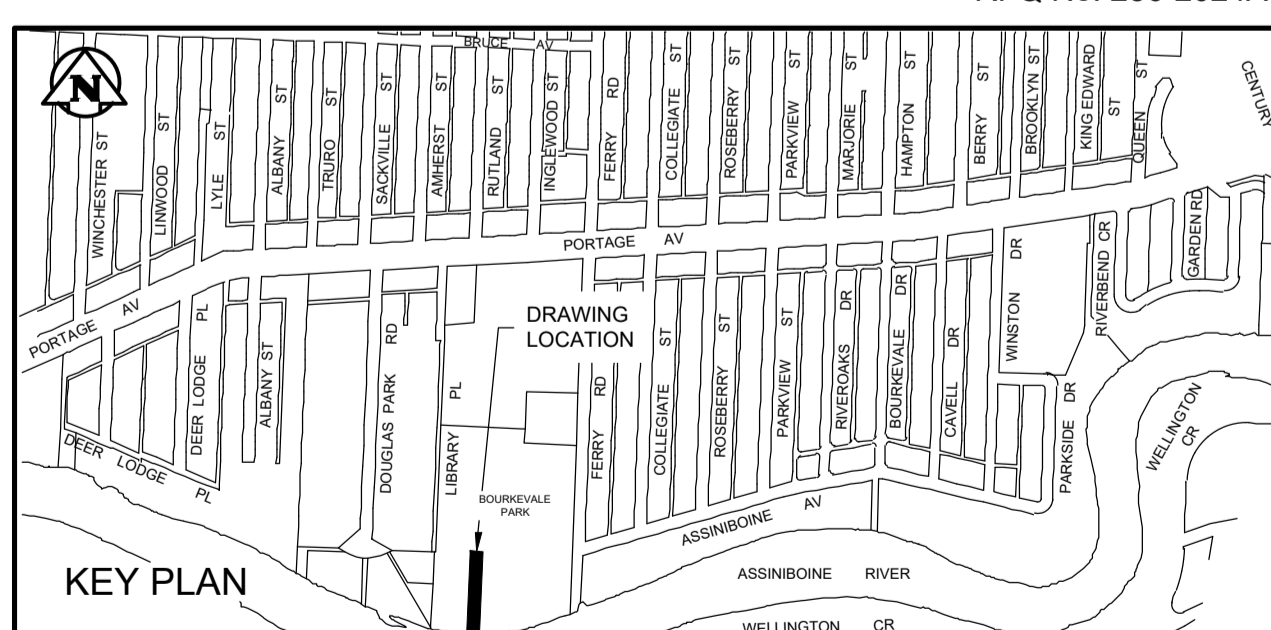


NOTE:  
ALTERNATIVE 1 OUTFALL SHOWN

SEE DRAWING C0604

MATCH LINE 0+510

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



**ENGINEERS GEOSCIENTISTS**  
MAINTENANCE  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	150 WM	BEND	150 WM	ANCHOR	LOCATION APPROVED UNDERGROUND STRUCTURES	
400 FM	FEEDERMAIN	400 FM	400 FM	TEE	400 FM	TREE		
300 LDS	LAND DRAINAGE SEWER	300 LDS	300 LDS	CURB STOP	15.240	LEGAL DIMENSION		
250 WWS	WASTEWATER SEWER	250 WWS	250 WWS	PLUG	#	SURVEY BAR		
300 CS	COMBINED SEWER	300 CS	300 CS	MANHOLE	○	GAS		
200 FCM	FORCEMAIN	200 FCM	200 FCM	CATCHBASIN	□	HYDRO		
	JUNCTIONS			CURB INLET	▼	MTS		
	HYDRANT			ADDRESS	○	CURB		
	VALVE			HYDRO POLE	●	SIDEWALK		
	REDUCER			LIGHT STANDARD	TH	TEST HOLE LOCATION		

**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.

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: KJM  
DRAWN BY: NL

CHECKED BY: TRC  
APPROVED BY: IJM

HOR. SCALE: 1:250  
VERTICAL: 1:50

DATE: 2024-05-28

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO. 1000120300-DWG-C0603

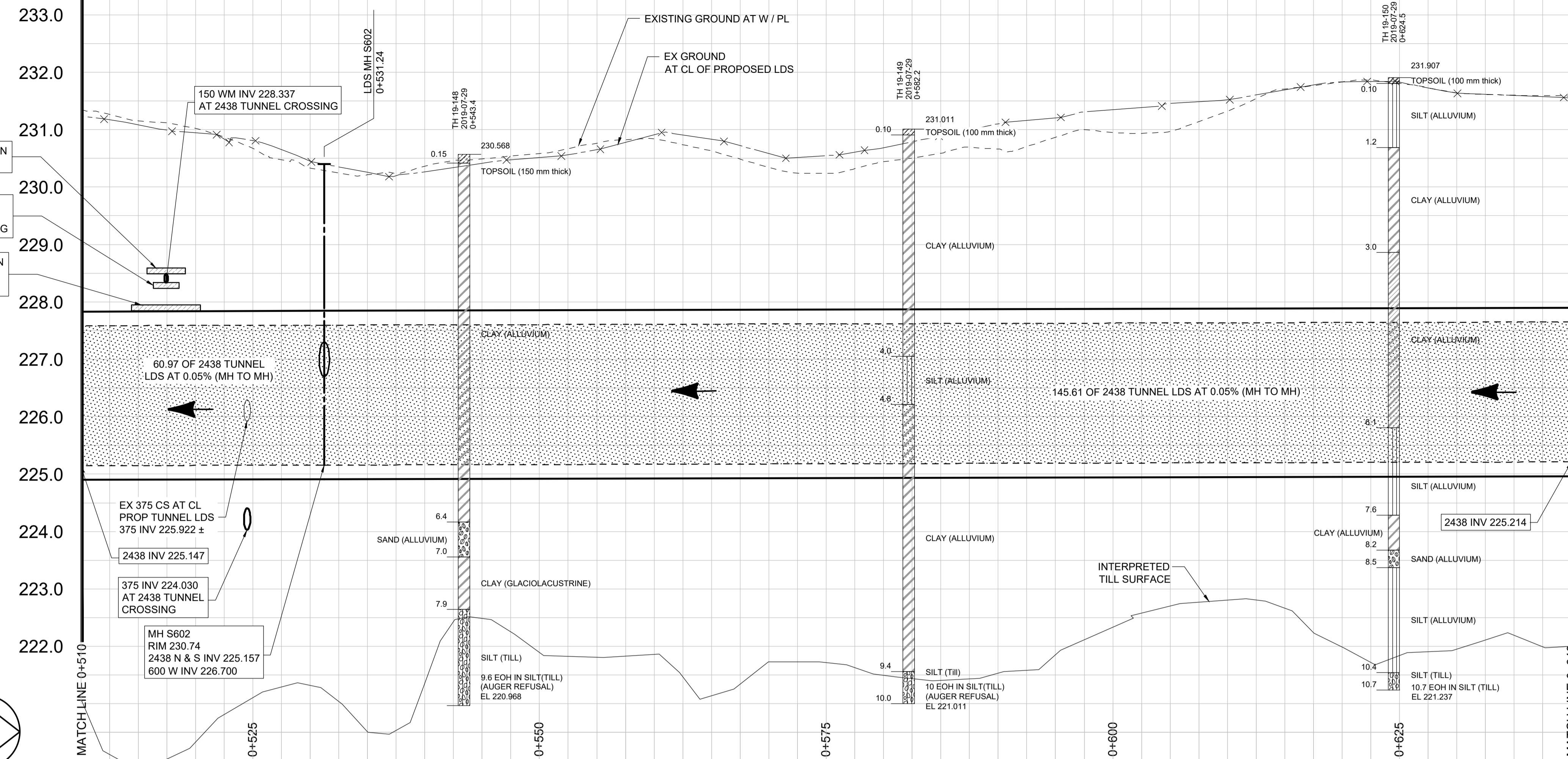
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

RUTLAND SEWER OUTFALL  
ASSINIBOINE RIVER TO 100m NORTH OF ASSINIBOINE RIVER

CITY DRAWING NUMBER LD-13019  
SHEET 3 OF 24  
C0603

X:\A-G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 001210001203.00 - FERRY ROAD/CONTRACT 6/CAD/DR CONT 6/PRODUCTION DRAWINGS/C0604 TO C068 1000120300-DWG-C0632\_237 RUTLAND.DWG 2024-05-28 11:21 AM



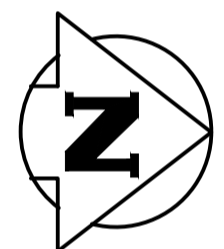
**CONSTRUCTION NOTES:**

1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.

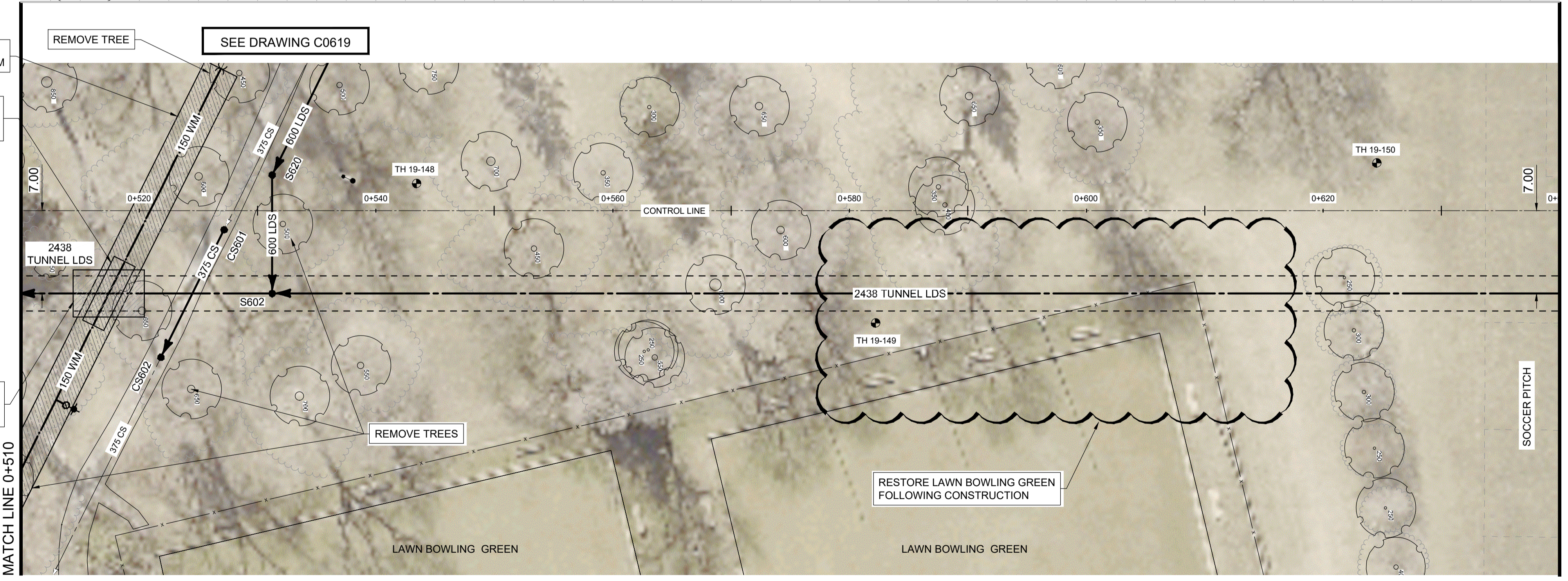
**GENERAL NOTES:**

1. CHAINAGE IS ALONG EXTENSION OF WEST LIMIT OF RUTLAND ST.
2. STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

NSWL EL 226.27  
ICE LEVEL 225.56



NOTE:  
ALTERNATIVE 1 OUTFALL SHOWN

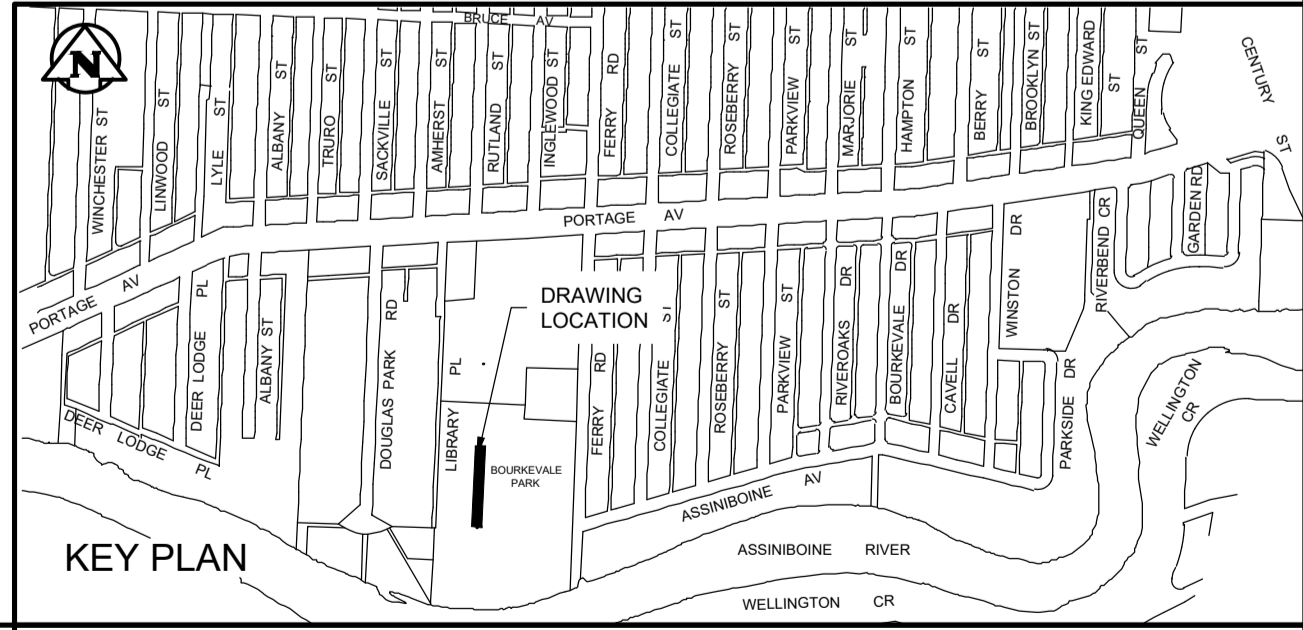


SEE DRAWING C0605

MATCH LINE 0+640

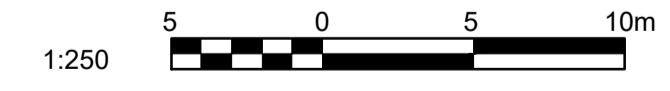
**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

# BOURKEVALE PARK



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	150 WM	BEND	150 WM	ANCHOR		
400 FM	FEEDERMAIN	400 FM	400 FM	TEE	400 FM	TREE		
300 LDS	LAND DRAINAGE SEWER	300 LDS	300 LDS	CURB STOP	300 LDS	LEGAL DIMENSION		
250 WWS	WASTEWATER SEWER	250 WWS	250 WWS	PLUG	250 WWS	SURVEY BAR		
300 CS	COMBINED SEWER	300 CS	300 CS	MANHOLE	300 CS	GAS		
200 FCM	FORCEMAIN	200 FCM	200 FCM	CATCHBASIN	200 FCM	HYDRO		
	JUNCTIONS			CURB INLET		MTS		
	HYDRANT			ADDRESS		CURB		
	VALVE			HYDRO POLE		SIDEWALK		
	REDUCER			LIGHT STANDARD		TEST HOLE LOCATION		

LOCATION APPROVED UNDERGROUND STRUCTURES	SUPV. U/G STRUCTURES COMMITTEE	DATE

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

DESIGNED BY	CHECKED BY
KJM	TRC
DRAWN BY	APPROVED BY
NL	IJM
HOR. SCALE:	RELEASED FOR CONSTRUCTION
1:250	
VERTICAL:	DATE
1:50	2024-05-28

**PRELIMINARY DRAWING**  
NOT TO BE USED FOR CONSTRUCTION  
CONSULTANT DRAWING NO. 1000120300-DWG-C0604

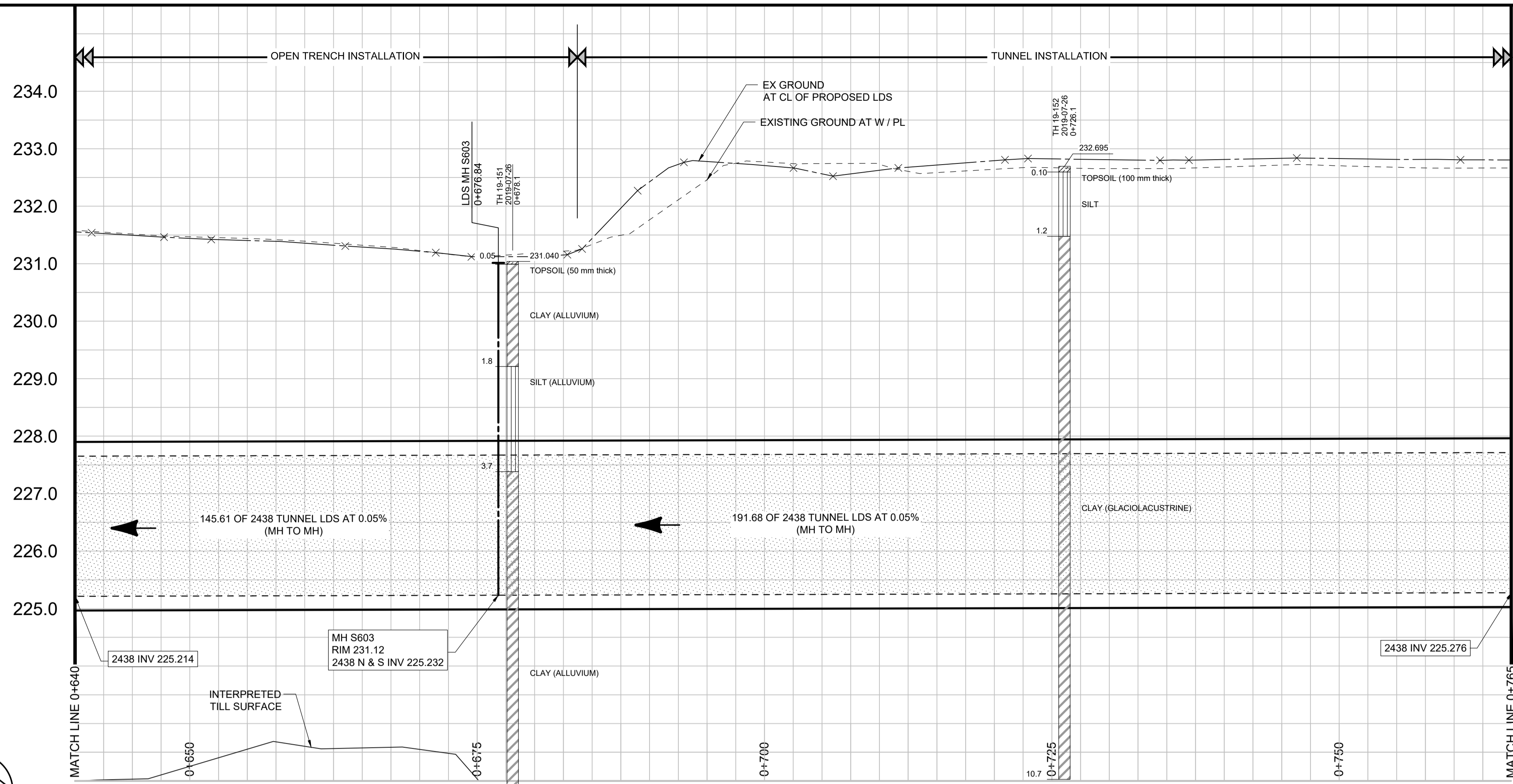
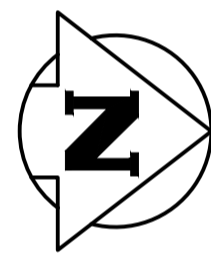
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

**BOURKEVALE PARK**  
ASSINIBOINE RIVER TO 230m NORTH OF ASSINIBOINE RIVER

CITY DRAWING NUMBER LD-13020  
SHEET 4 OF 24  
C0604

X:\A\G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 00121\0001203.00 - FERRY ROAD/CONTRACT 6\CAD\DR CONT 6 PRODUCTION DRAWINGS\C0604 TO C608 1000120300-DWG-C0632\_237 RUTLAND DWG 2024-05-28 11:21 AM



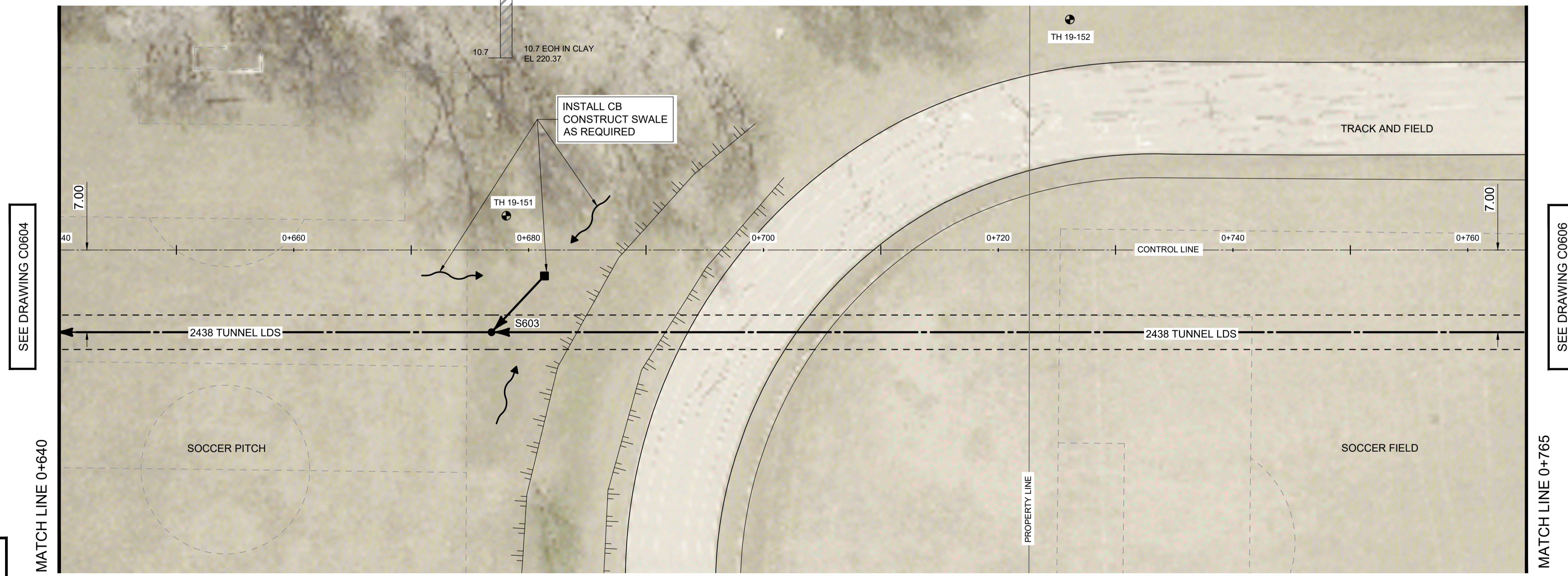
**CONSTRUCTION NOTES:**

1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.

**GENERAL NOTES:**

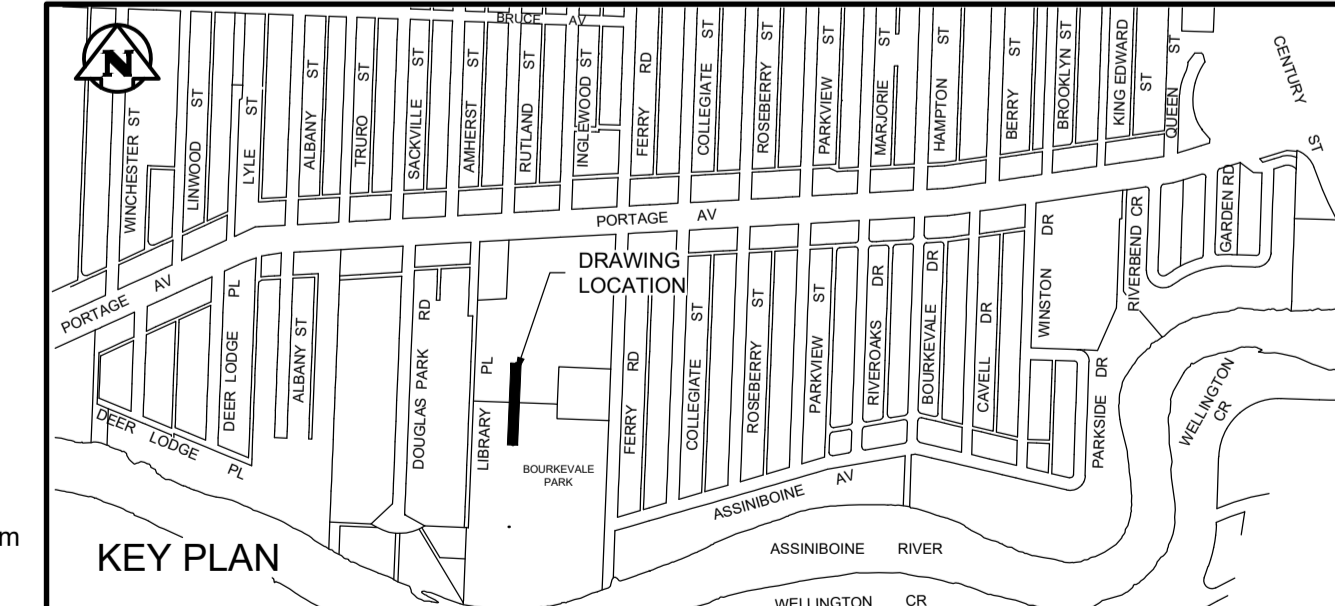
1. CHAINAGE IS ALONG EXTENSION OF WEST LIMIT OF RUTLAND ST.
2. STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

NSWL EL 226.27  
ICE LEVEL 225.56



**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

**BOURKEVALE PARK**

150 WM	WATERMAIN	150 WM	⌒	BEND	⌒	ANCHOR
400 FM	FEEDERMAIN	400 FM	⌒	TEE	⌒	TREE
300 LDS	LAND DRAINAGE SEWER	300 LDS	⌒	CURB STOP	15.240	LEGAL DIMENSION
250 WWS	WASTEWATER SEWER	250 WWS	⌒	PLUG	⌒	SURVEY BAR
300 CS	COMBINED SEWER	300 CS	⌒	MANHOLE	⌒	GAS
200 FCM	FORCEMAIN	200 FCM	⌒	CATCHBASIN	⌒	HYDRO
	JUNCTIONS		⌒	CURB INLET	⌒	MTS
	HYDRANT		⌒	ADDRESS	⌒	CURB
	VALVE		⌒	HYDRO POLE	⌒	SIDEWALK
	REDUCER		⌒	LIGHT STANDARD	⌒	TEST HOLE LOCATION
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	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.	CITY OF WINNIPEG 38-069		
ELEV.	233.792m		
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM
NO.	REVISIONS	DATE	BY

**TETRA TECH**

DESIGNED BY: KJM  
CHECKED BY: TRC

DRAWN BY: NL  
APPROVED BY: IJM

HOR. SCALE: 1 : 250  
VERTICAL: 1 : 50

DATE: 2024-05-28

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO. 1000120300-DWG-C0605

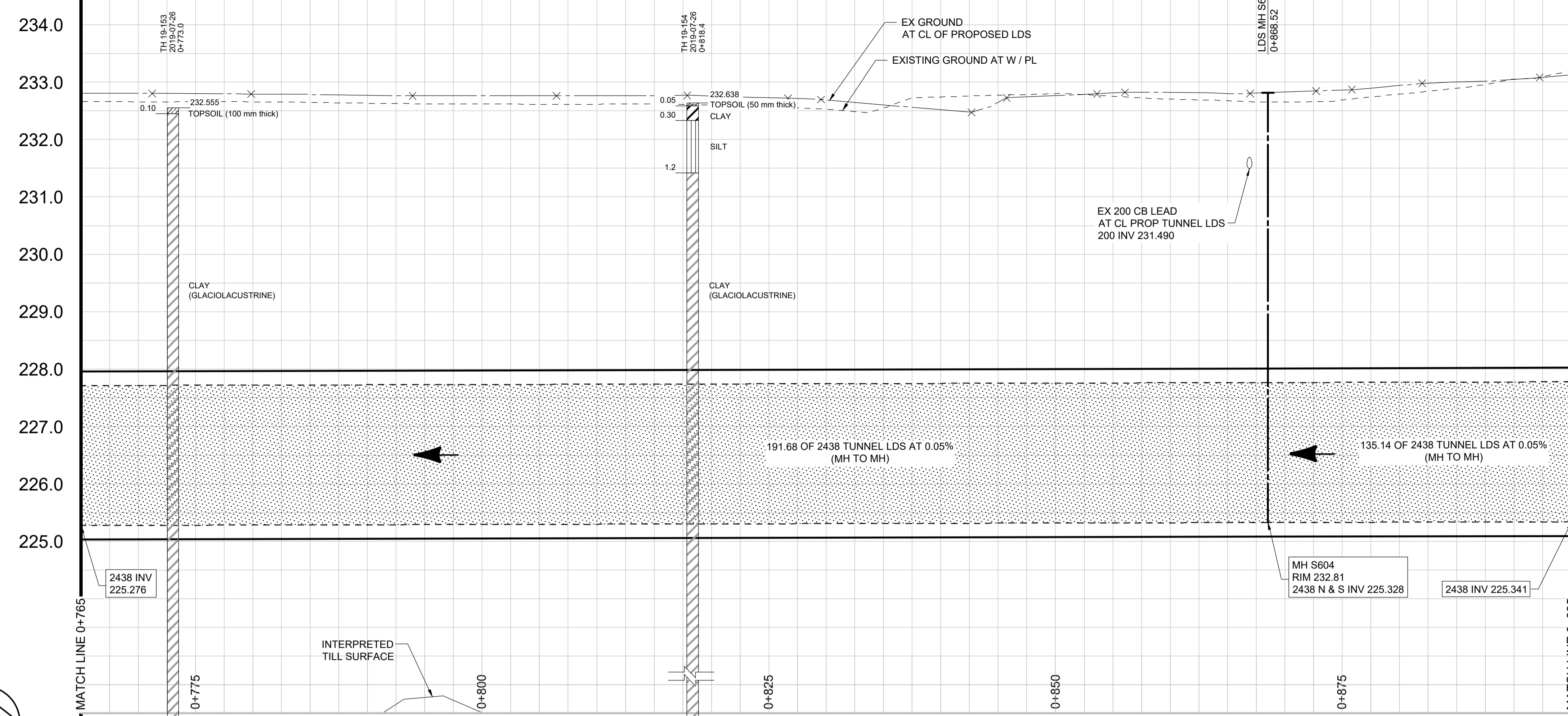
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

BOURKEVALE PARK  
FROM STA 0+640 TO STA 0+765

CITY DRAWING NUMBER LD-13021  
SHEET 5 OF 24  
C0605

X:\A-G\PROJECTS\2024\2024-05-28\11:21 AM - FERRY ROAD/CONTRACT 6\CAD\DWG\PRODUCTION DRAWINGS\C0604 TO C068 1000120300-DWG-C0632\_237 RUTLAND.DWG 2024-05-28 11:21 AM

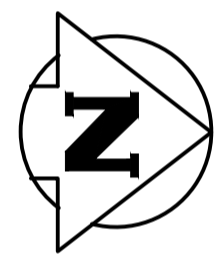


234.0  
233.0  
232.0  
231.0  
230.0  
229.0  
228.0  
227.0  
226.0  
225.0

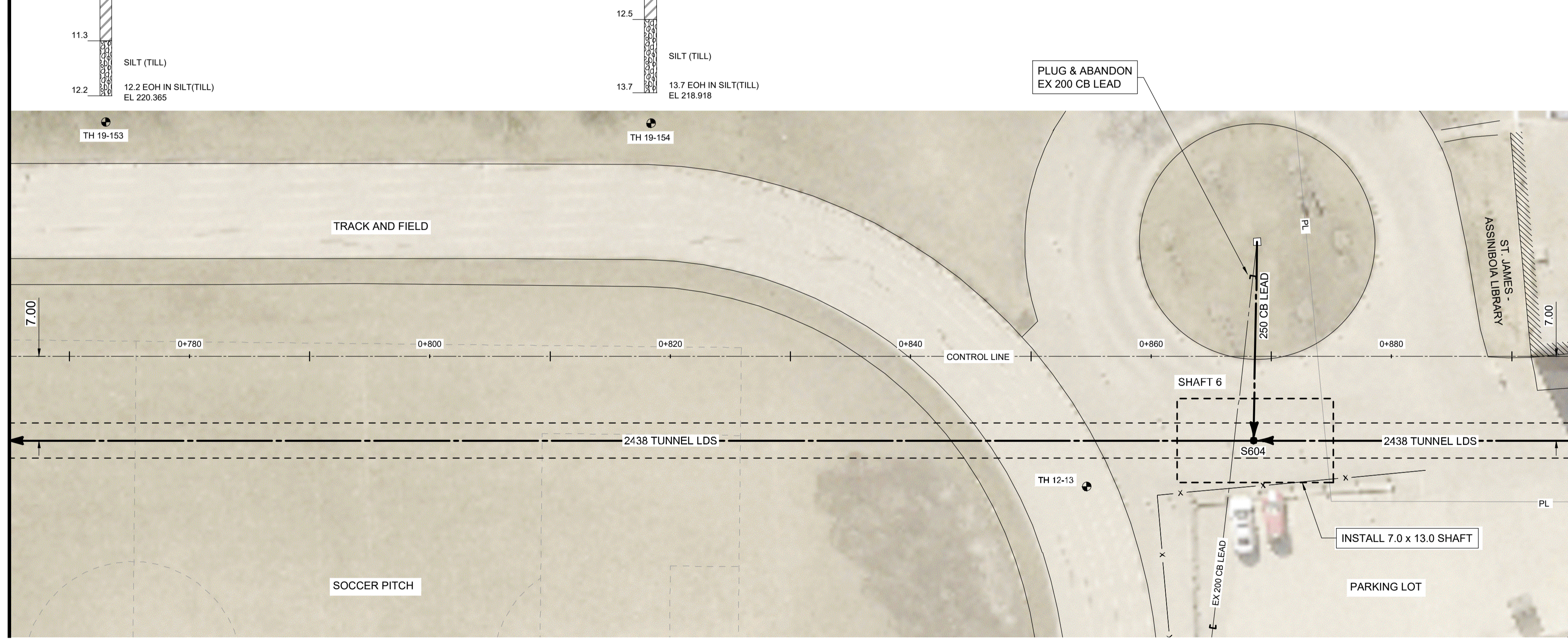
- CONSTRUCTION NOTES:**
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  - SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  - INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.

- GENERAL NOTES:**
- CHAINAGE IS ALONG EXTENSION OF WEST LIMIT OF RUTLAND ST.
  - STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  - SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

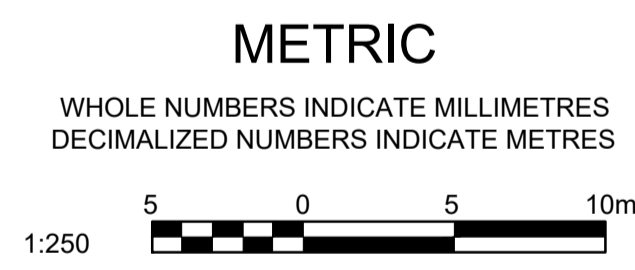
NSWL EL 226.27  
ICE LEVEL 225.56



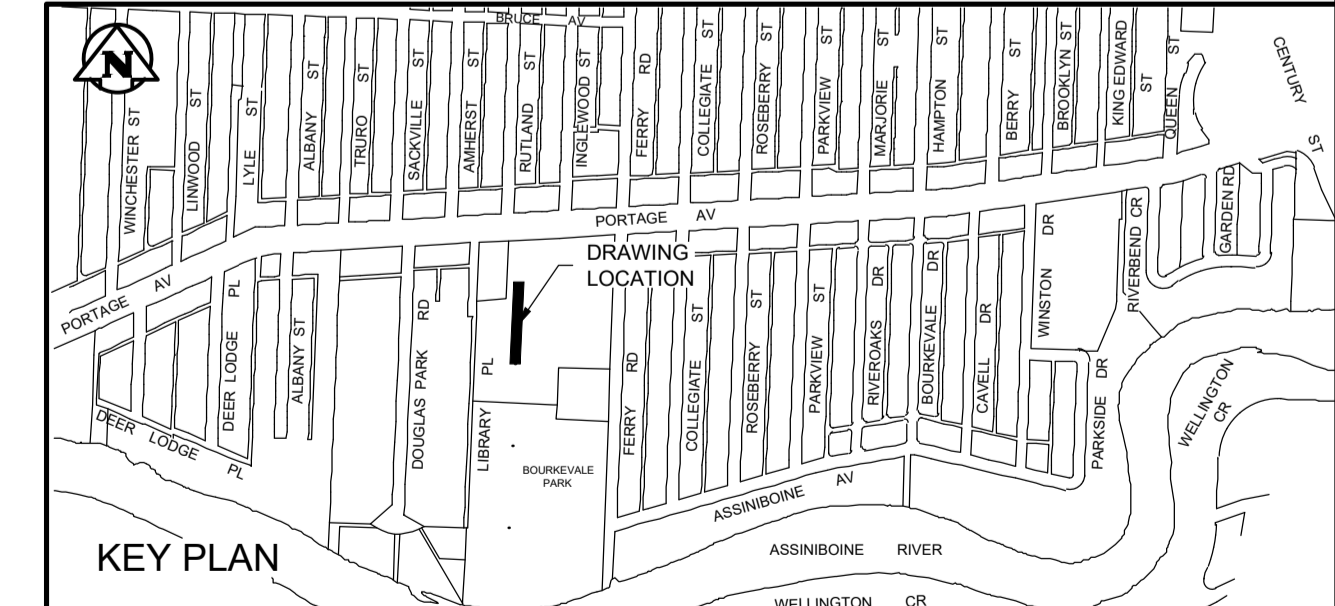
MATCH LINE 0+765  
MATCH LINE 0+895  
SEE DRAWING C0605



42.466 TO W/L LIBRARY/PL  
SEE DRAWING C0607



RFQ No. 286-2024A



**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

## BOURKEVALE PARK

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	ANCHOR	ANCHOR	ANCHOR	LOCATION APPROVED UNDERGROUND STRUCTURES		
400 FM	FEEDERMAIN	400 FM	TREE	TREE	TREE			
300 LDS	LAND DRAINAGE SEWER	300 LDS	CURB STOP	CURB STOP	CURB STOP			
250 WWS	WASTEWATER SEWER	250 WWS	PLUG	PLUG	PLUG			
300 CS	COMBINED SEWER	300 CS	MANHOLE	MANHOLE	MANHOLE			
200 FCM	FORCEMAIN	200 FCM	CATCHBASIN	CATCHBASIN	CATCHBASIN			
	JUNCTIONS		CURB INLET	CURB INLET	CURB INLET			
	HYDRANT		ADDRESS	ADDRESS	ADDRESS			
	VALVE		HYDRO POLE	HYDRO POLE	HYDRO POLE			
	REDUCER		LIGHT STANDARD	LIGHT STANDARD	LIGHT STANDARD			

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: KJM  
CHECKED BY: TRC  
DRAWN BY: NL  
APPROVED BY: IJM  
HOR. SCALE: 1:250  
VERTICAL: 1:50  
DATE: 2024-05-28

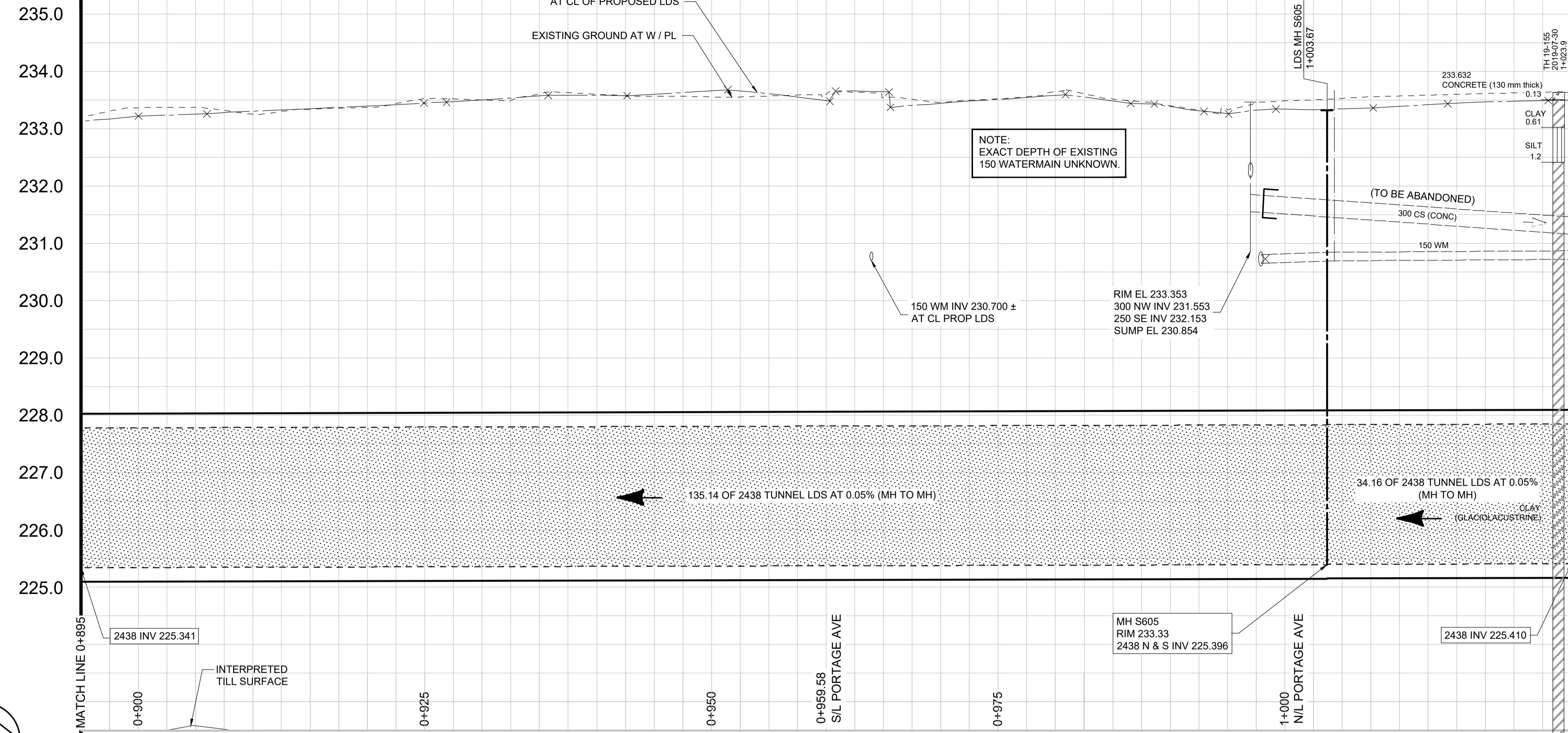
**PRELIMINARY DRAWING**  
NOT TO BE USED FOR CONSTRUCTION  
CONSULTANT DRAWING NO. 1000120300-DWG-C0606

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

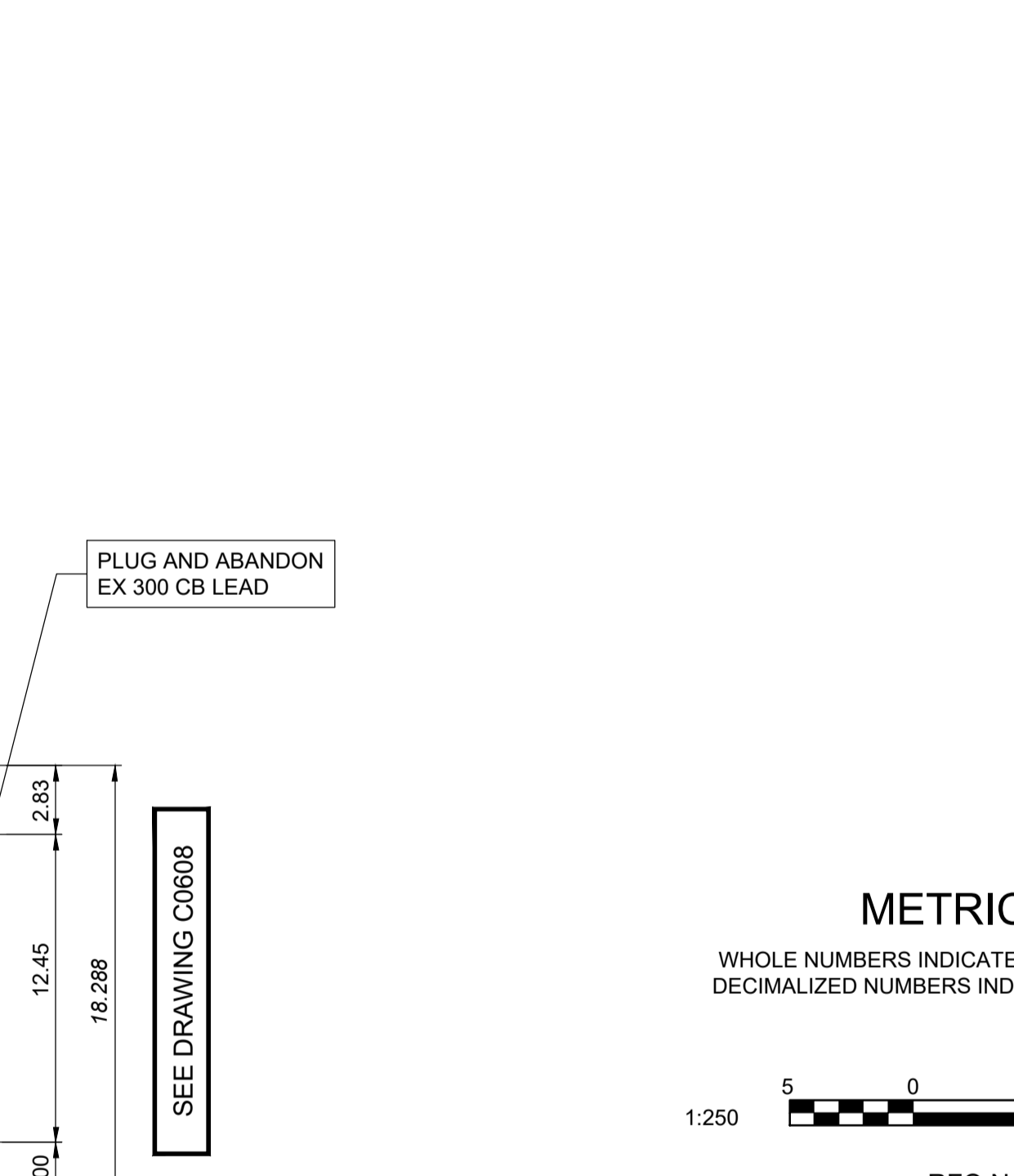
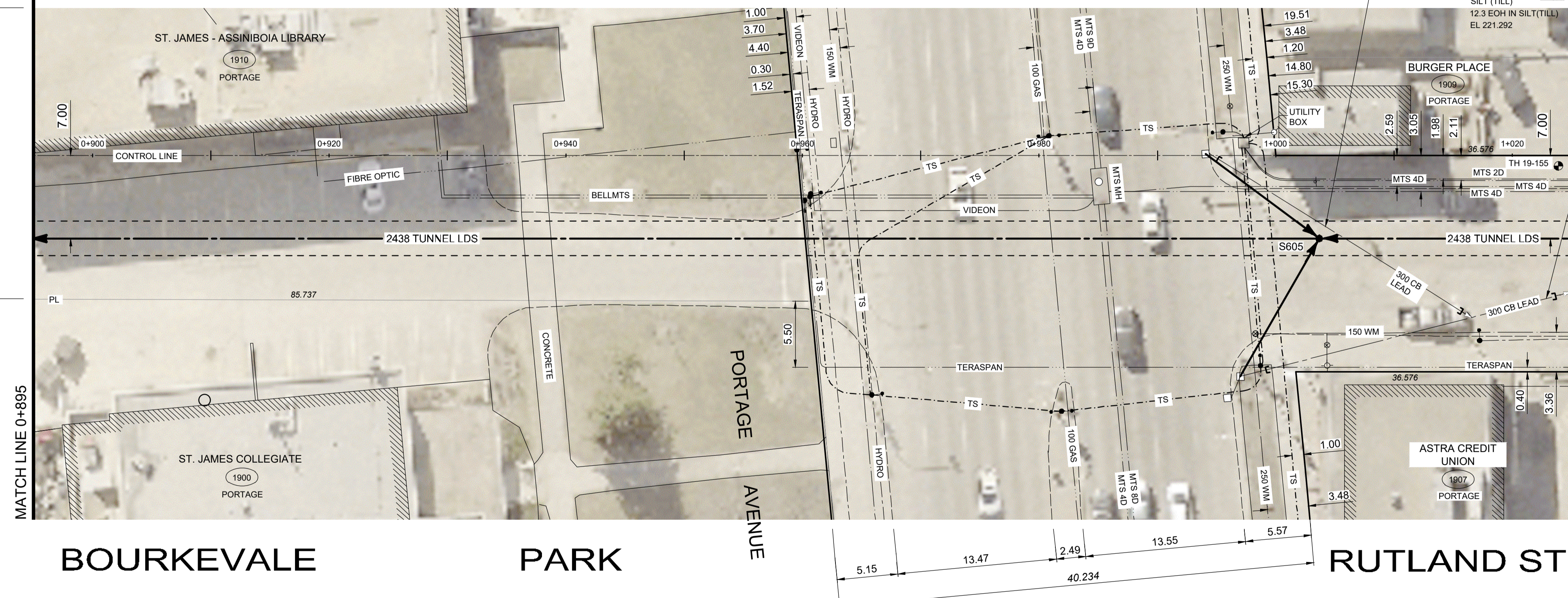
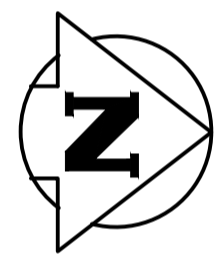
FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6  
BOURKEVALE PARK  
FROM STA 0+765 TO STA 0+895

CITY DRAWING NUMBER LD-13022  
SHEET 6 OF 24  
C0606

X:\A\G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 00121001203.00 - FERRY ROAD/CONTRACT 6/CAD/FR CONT 6/PRODUCTION DRAWINGS/C0604 TO C608 1000120300-DWG-C0606\_237 RUTLAND.DWG 2024-05-29 9:24 AM



- CONSTRUCTION NOTES:**
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  - SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  - INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
- GENERAL NOTES:**
- CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  - STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  - SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.



**ENGINEERS GEOSCIENTISTS MANITOBA**  
 Certificate of Authorization  
 Tetra Tech Canada Inc.  
 No. 6499

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	ANCHOR	ANCHOR	ANCHOR	LOCATION APPROVED	LOCATION APPROVED	LOCATION APPROVED
400 FM	FEEDERMAIN	400 FM	TREE	TREE	TREE	UNDERGROUND STRUCTURES	UNDERGROUND STRUCTURES	UNDERGROUND STRUCTURES
300 LDS	LAND DRAINAGE SEWER	300 LDS	CURB STOP	CURB STOP	CURB STOP	SUPV. U/G STRUCTURES	SUPV. U/G STRUCTURES	SUPV. U/G STRUCTURES
250 WWS	WASTEWATER SEWER	250 WWS	PLUG	PLUG	PLUG	DATE	DATE	DATE
300 CS	COMBINED SEWER	300 CS	MANHOLE	MANHOLE	MANHOLE	NOTE:	NOTE:	NOTE:
200 FCM	FORCEMAIN	200 FCM	CATCHBASIN	CATCHBASIN	CATCHBASIN	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.	DATE	DATE
	JUNCTIONS		CURB INLET	CURB INLET	CURB INLET			
	HYDRANT		ADDRESS	ADDRESS	ADDRESS			
	VALVE		HYDRO POLE	HYDRO POLE	HYDRO POLE			
	REDUCER		LIGHT STANDARD	LIGHT STANDARD	LIGHT STANDARD			

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

B.M.	CITY OF WINNIPEG 38-069
ELEV.	233.792m

**TETRA TECH**

DESIGNED BY	KJM	CHECKED BY	TRC
DRAWN BY	NL	APPROVED BY	IJM
HOR. SCALE:	1:250	RELEASED FOR CONSTRUCTION	
VERTICAL:	1:50		
DATE	2024-05-29	DATE	

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO.  
1000120300-DWG-C0607

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

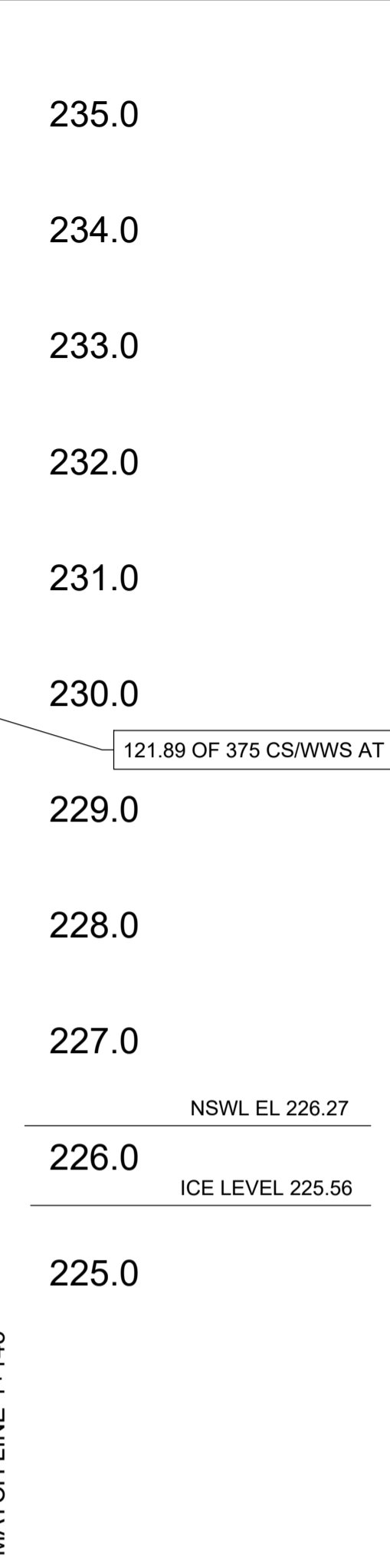
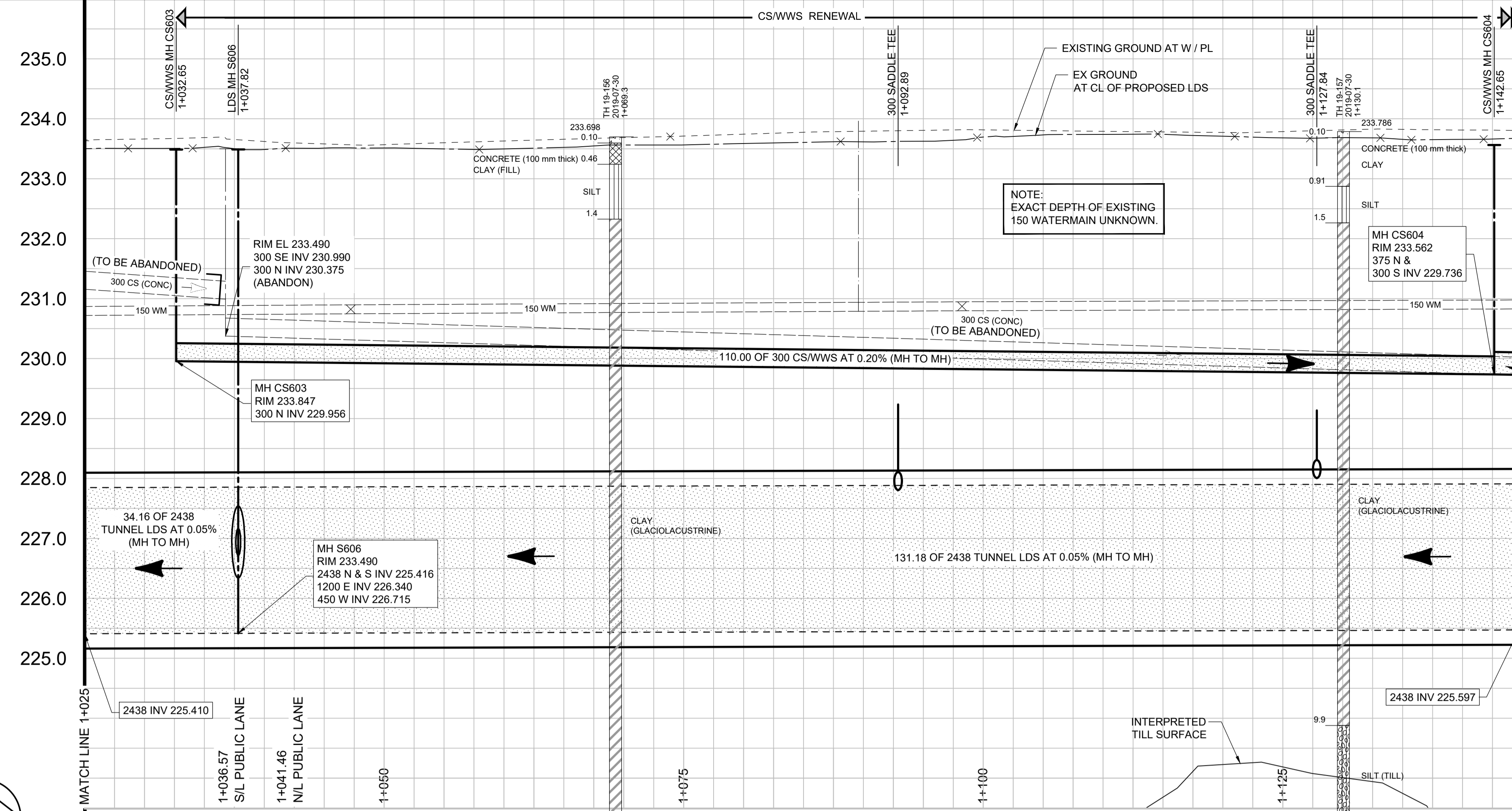
RUTLAND STREET  
 65m SOUTH OF PORTAGE AVENUE  
 TO 25m NORTH OF PORTAGE AVENUE

CITY DRAWING NUMBER  
LD-13023

SHEET 7 OF 24

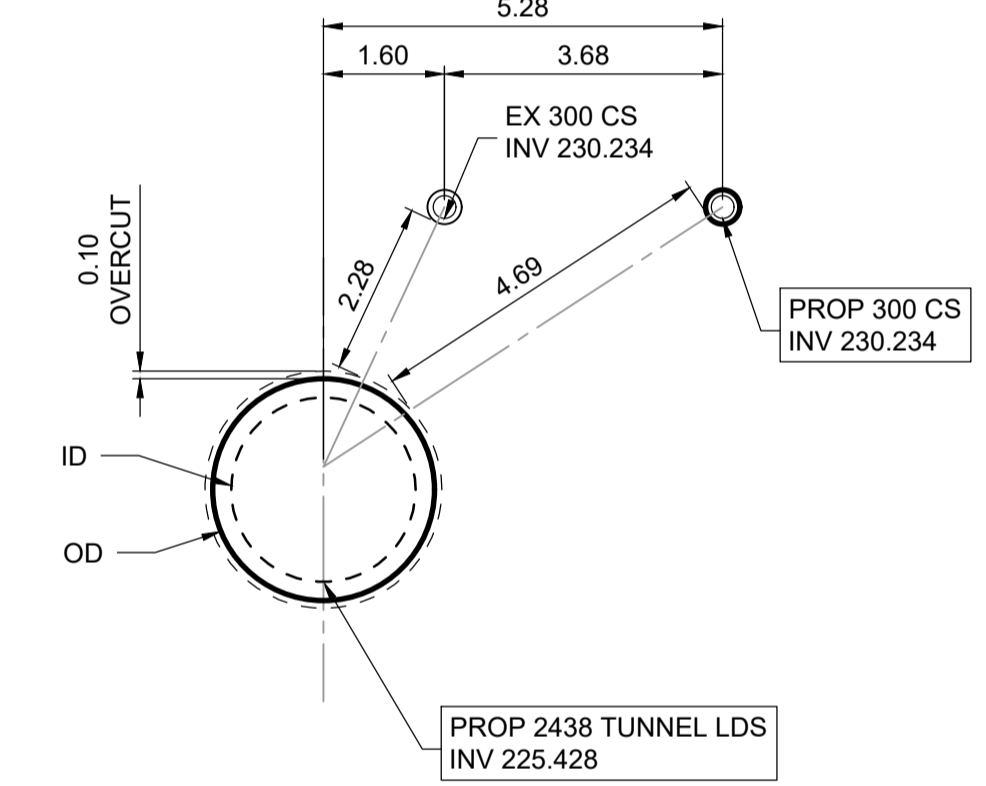
C0607

X:\A-GCITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 001210001203.00 - FERRY ROAD/CONTRACT 6/PRODUCTION DRAWINGS/CS604 TO C608/1000120300-DWG-C0232\_237 RUTLAND.DWG 2024-05-27 3:19 PM



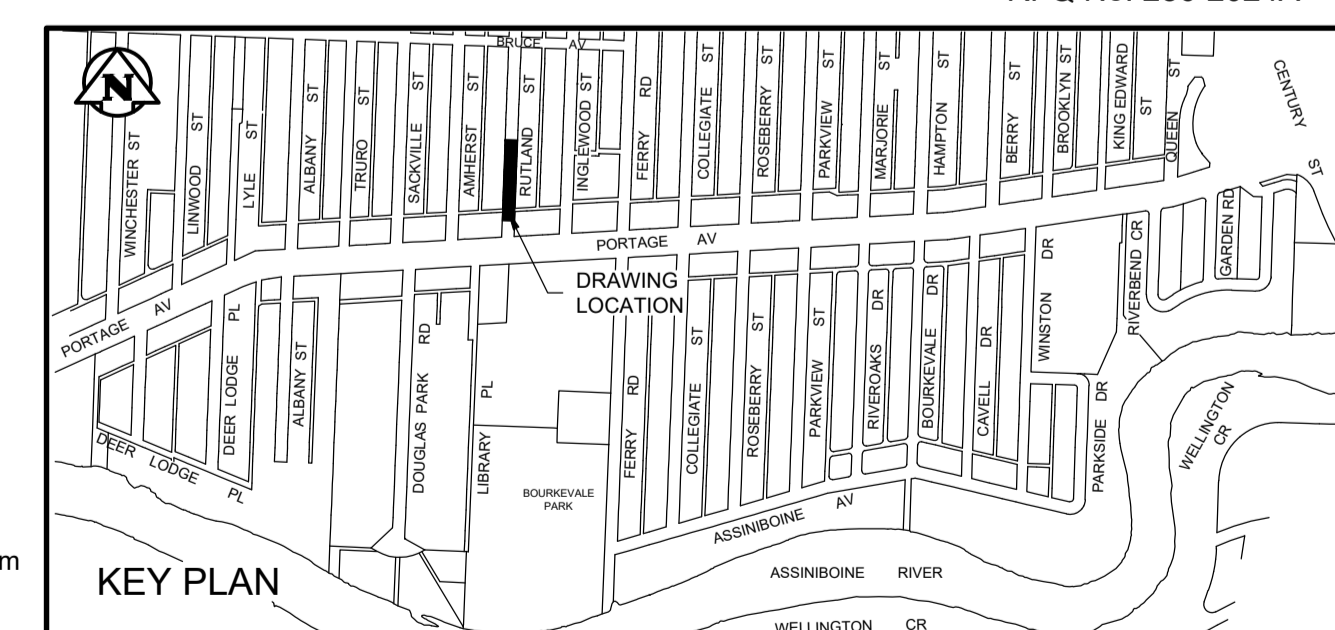
- CONSTRUCTION NOTES:**
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  - SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  - INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
  - RECONNECT SEWER SERVICES TO NEW CS/WWS.

- GENERAL NOTES:**
- CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  - STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  - SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

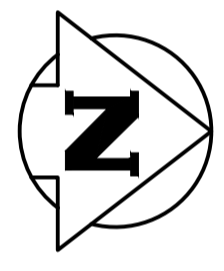


SECTION AT STA 1+060  
1 : 100

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



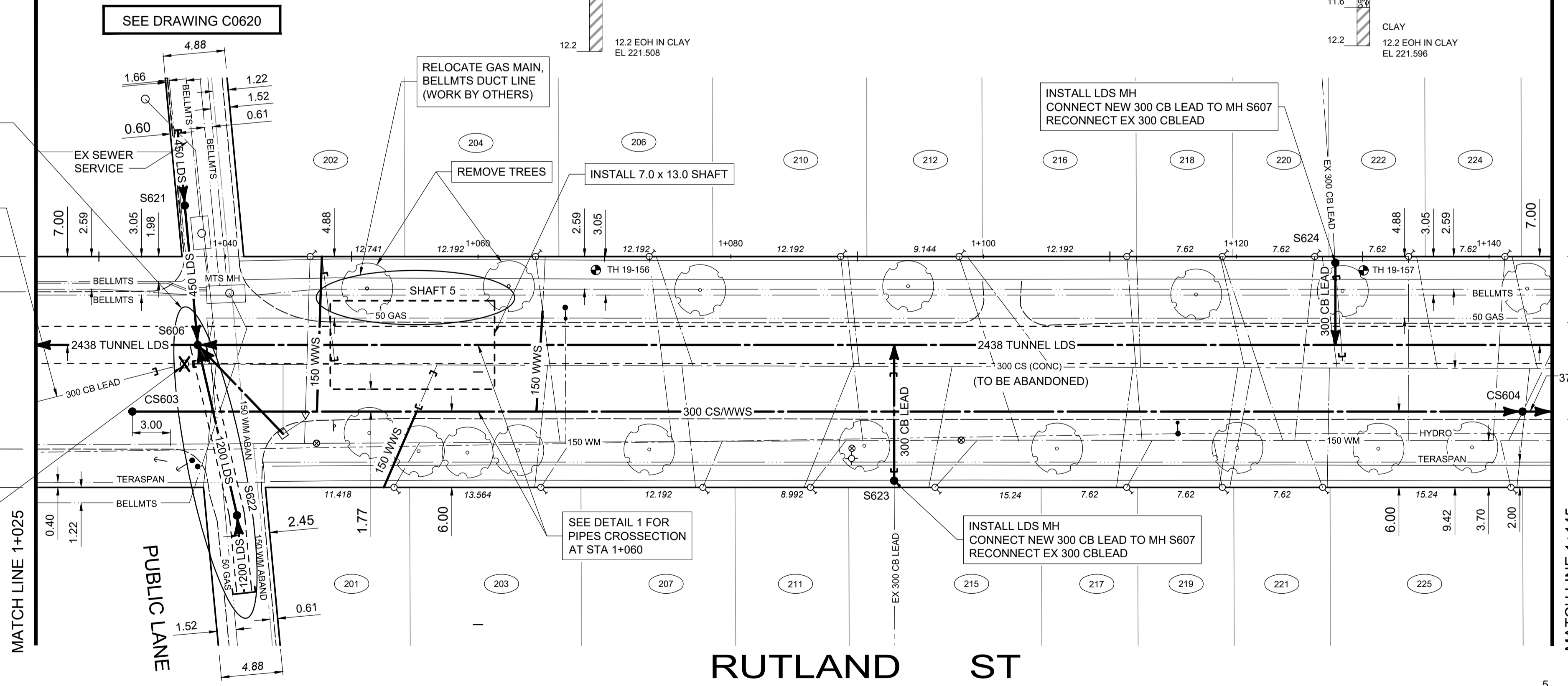
RFQ No. 286-2024A



SEE DRAWING C0607

SEE DRAWING C0620

ENGINEERS  
GEOSCIENTISTS  
MANITOBA  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499



**RUTLAND ST**

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	ANCHOR	ANCHOR	ANCHOR	LOCATION APPROVED	LOCATION APPROVED	LOCATION APPROVED
400 FM	FEEDERMAIN	400 FM	TREE	TREE	TREE	UNDERGROUND STRUCTURES	UNDERGROUND STRUCTURES	UNDERGROUND STRUCTURES
300 LDS	LAND DRAINAGE SEWER	300 LDS	CURB STOP	CURB STOP	CURB STOP			
250 WWS	WASTEWATER SEWER	250 WWS	PLUG	PLUG	PLUG			
300 CS	COMBINED SEWER	300 CS	MANHOLE	MANHOLE	MANHOLE			
200 FCM	FORCEMAIN	200 FCM	CATCHBASIN	CATCHBASIN	CATCHBASIN			
	JUNCTIONS		CURB INLET	CURB INLET	CURB INLET			
	HYDRANT		ADDRESS	ADDRESS	ADDRESS			
	VALVE		HYDRO POLE	HYDRO POLE	HYDRO POLE			
	REDUCER		LIGHT STANDARD	LIGHT STANDARD	LIGHT STANDARD			

SUPV.	UIG STRUCTURES COMMITTEE	DATE

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

DESIGNED BY	CHECKED BY
KJM	TRC
DRAWN BY	APPROVED BY
NL	IJM
HOR. SCALE:	RELEASED FOR CONSTRUCTION
1 : 250	
VERTICAL:	DATE
1 : 50	2024-05-27

**PRELIMINARY DRAWING**  
NOT TO BE USED FOR CONSTRUCTION  
CONSULTANT DRAWING NO. 1000120300-DWG-C0608

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

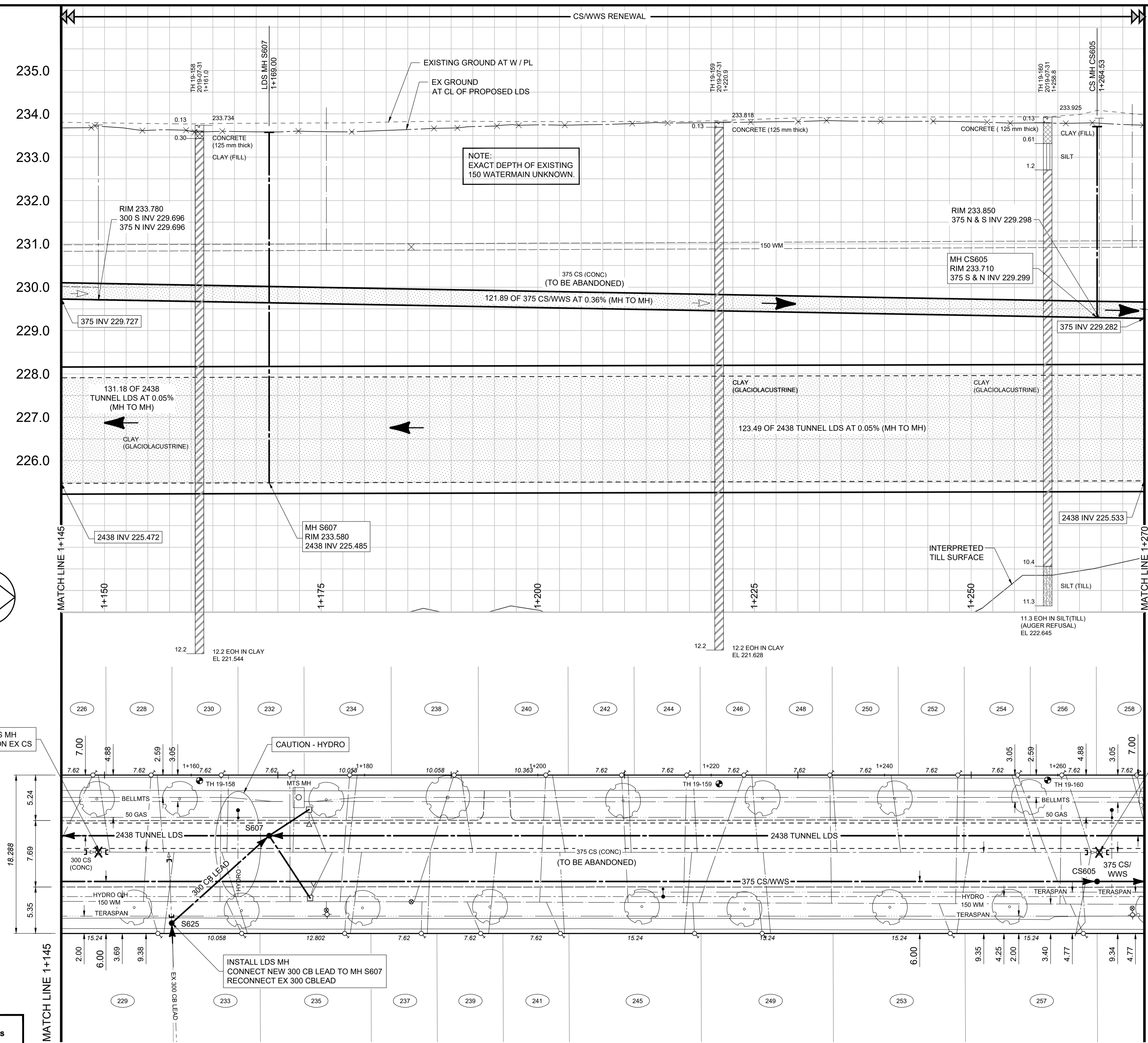
FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

RUTLAND STREET  
25m NORTH OF PORTAGE AVENUE  
TO 104m NORTH OF PUBLIC LANE

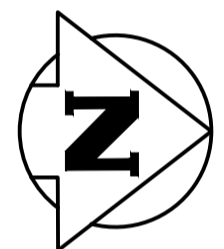
CITY DRAWING NUMBER LD-13024  
SHEET 8 OF 24  
C0608



X:\A-G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 0012100120300 - FERRY ROAD/CONTRACT 6/CAD/FR CONT 6 PRODUCTION DRAWINGS/C0609\_614\_RUTLAND.DWG 2024-02-22 11:31 AM



- CONSTRUCTION NOTES:**
1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
  4. RECONNECT SEWER SERVICES TO NEW CS/WWS.
- GENERAL NOTES:**
1. CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  2. STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

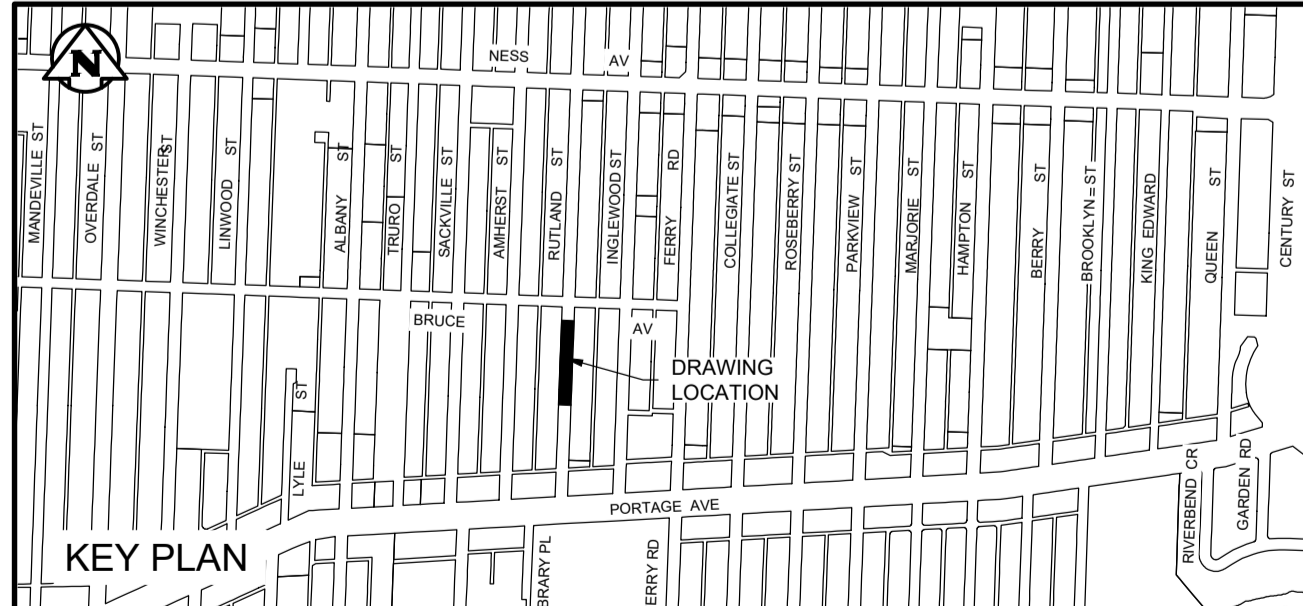


SEE DRAWING C0608

SEE DRAWING C0610

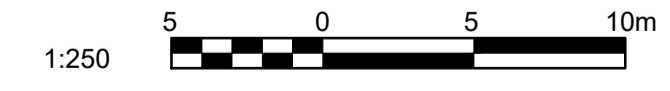
**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

**RUTLAND STREET**



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	150 WM	BEND	150 WM	ANCHOR	ANCHOR	ANCHOR
400 FM	FEEDERMAIN	400 FM	400 FM	TEE	400 FM	TREE	TREE	TREE
300 LDS	LAND DRAINAGE SEWER	300 LDS	300 LDS	CURB STOP	300 LDS	LEGAL DIMENSION	LEGAL DIMENSION	LEGAL DIMENSION
250 WWS	WASTEWATER SEWER	250 WWS	250 WWS	PLUG	250 WWS	SURVEY BAR	SURVEY BAR	SURVEY BAR
300 CS	COMBINED SEWER	300 CS	300 CS	MANHOLE	300 CS	GAS	GAS	GAS
200 FCM	FORCEMAIN	200 FCM	200 FCM	CATCHBASIN	200 FCM	HYDRO	HYDRO	HYDRO
	JUNCTIONS			CURB INLET		MTS	MTS	MTS
	HYDRANT			ADDRESS		CURB	CURB	CURB
	VALVE			HYDRO POLE		SIDEWALK	SIDEWALK	SIDEWALK
	REDUCER			LIGHT STANDARD		TEST HOLE LOCATION	TEST HOLE LOCATION	TEST HOLE LOCATION

**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.

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: ML  
CHECKED BY: TRC

DRAWN BY: NL  
APPROVED BY: GS

HOR. SCALE: 1:250  
VERTICAL: 1:50

DATE: 2024-02-22

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO. 1000120300-DWG-C0609

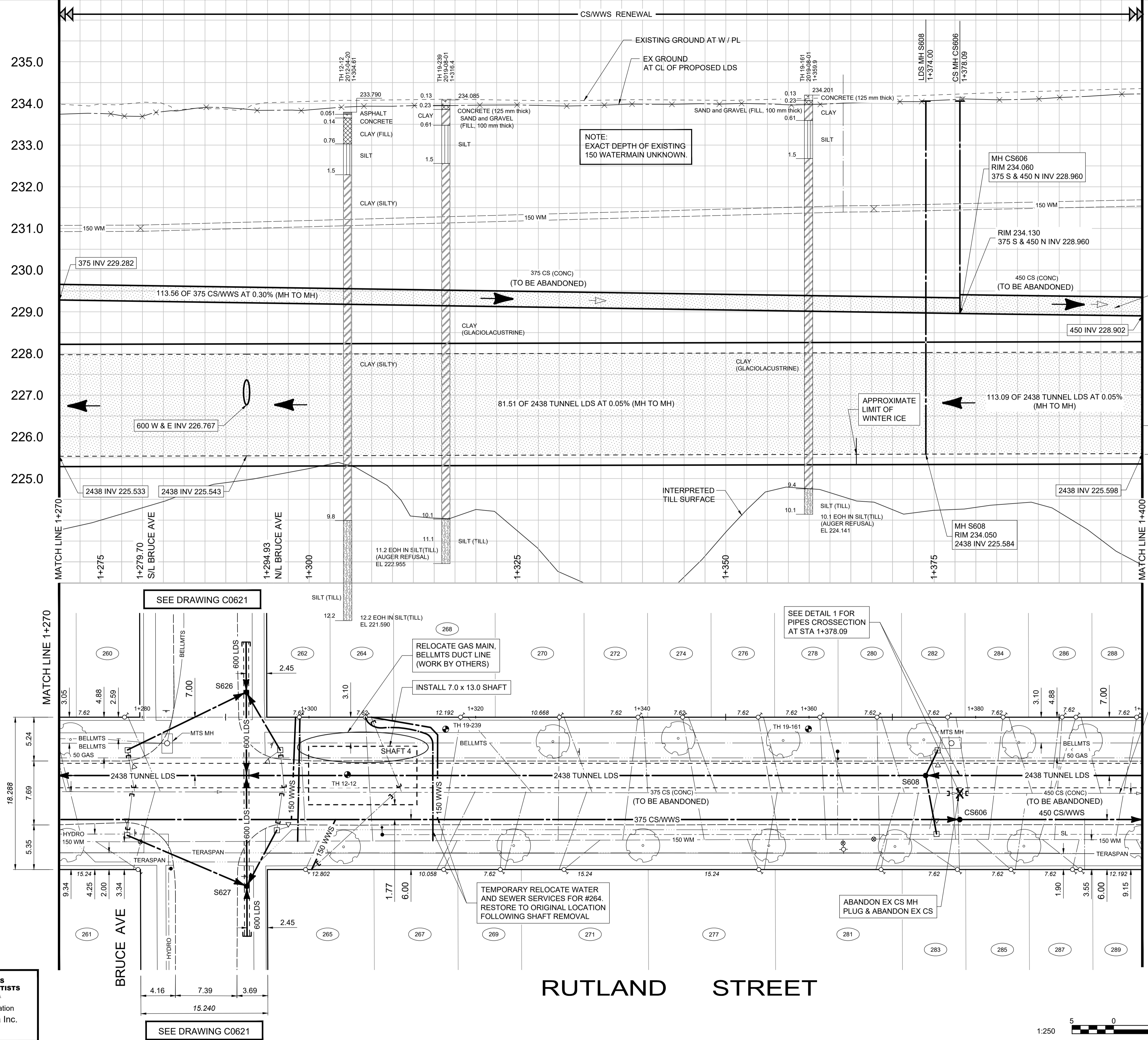
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

RUTLAND STREET  
104m NORTH OF PUBLIC LANE  
TO 15m SOUTH OF BRUCE AVENUE

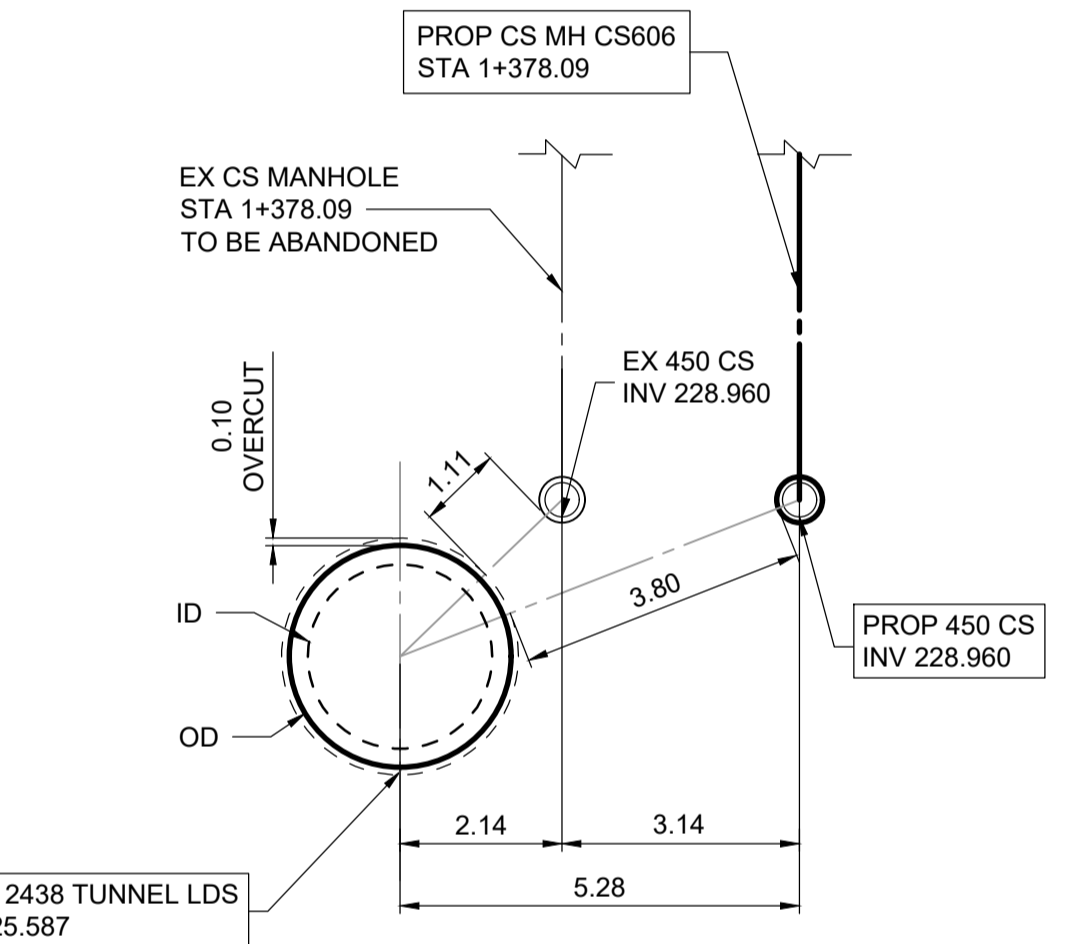
CITY DRAWING NUMBER LD-13025  
SHEET 9 OF 24  
C0609

X:\A-GCITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 0012100120300 - FERRY ROAD/CONTRACT 6/ADJR CONT 6/PRODUCTION DRAWINGS/C0609\_614\_RUTLAND.DWG 2024-05-27 3:30 PM



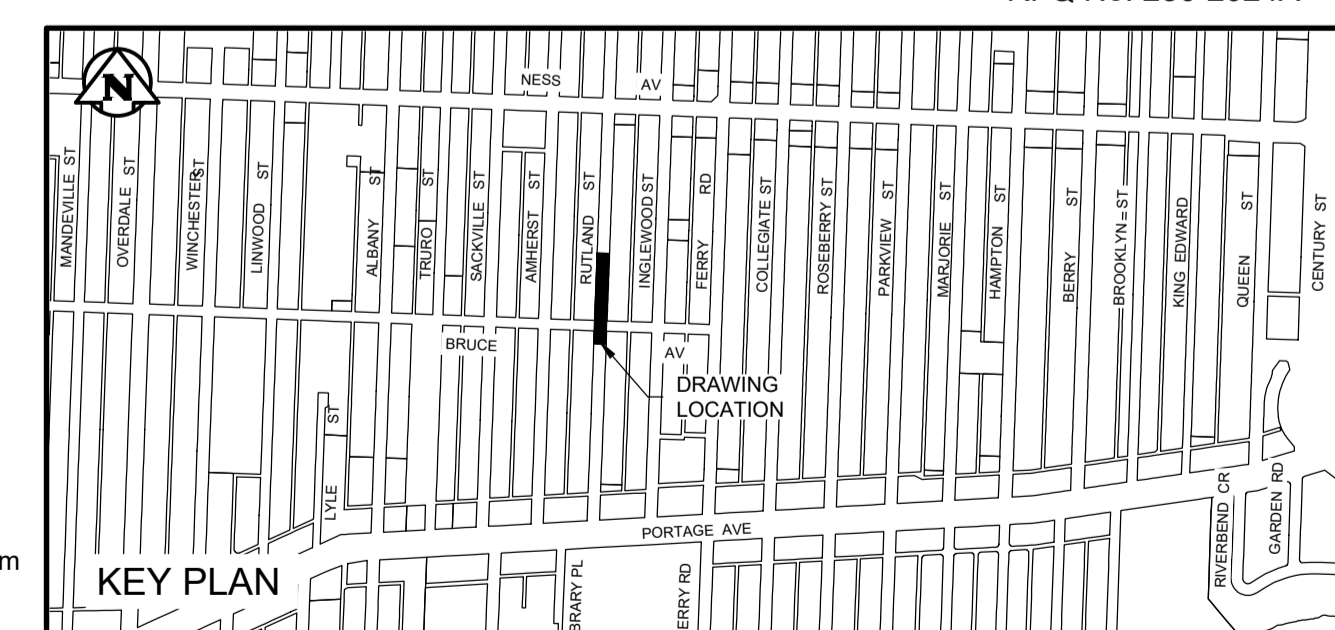
- CONSTRUCTION NOTES:**
1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
  4. RECONNECT SEWER SERVICES TO NEW CS/WW.

- GENERAL NOTES:**
1. CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  2. STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.



SECTION AT STA 1+378.09  
1 : 100

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



RFQ No. 286-2024A

**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	∩	BEND	∩	ANCHOR	∩	
400 FM	FEEDERMAIN	400 FM	∩	TEE	∩	TREE	∩	
300 LDS	LAND DRAINAGE SEWER	300 LDS	∩	CURB STOP	∩	LEGAL DIMENSION	∩	
250 WWS	WASTEWATER SEWER	250 WWS	∩	PLUG	∩	SURVEY BAR	∩	
300 CS	COMBINED SEWER	300 CS	∩	MANHOLE	∩	GAS	∩	
200 FCM	FORCEMAIN	200 FCM	∩	CATCHBASIN	∩	HYDRO	∩	
	JUNCTIONS		∩	CURB INLET	∩	MTS	∩	
	HYDRANT		∩	ADDRESS	∩	CURB	∩	
	VALVE		∩	HYDRO POLE	∩	SIDEWALK	∩	
	REDUCER		∩	LIGHT STANDARD	∩	TEST HOLE LOCATION	∩	

**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.

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY ML  
DRAWN BY NL

CHECKED BY TRC  
APPROVED BY GS

HOR. SCALE: 1 : 250  
VERTICAL: 1 : 50

DATE: 2024-05-27

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO. 1000120300-DWG-C0610

**THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT**

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

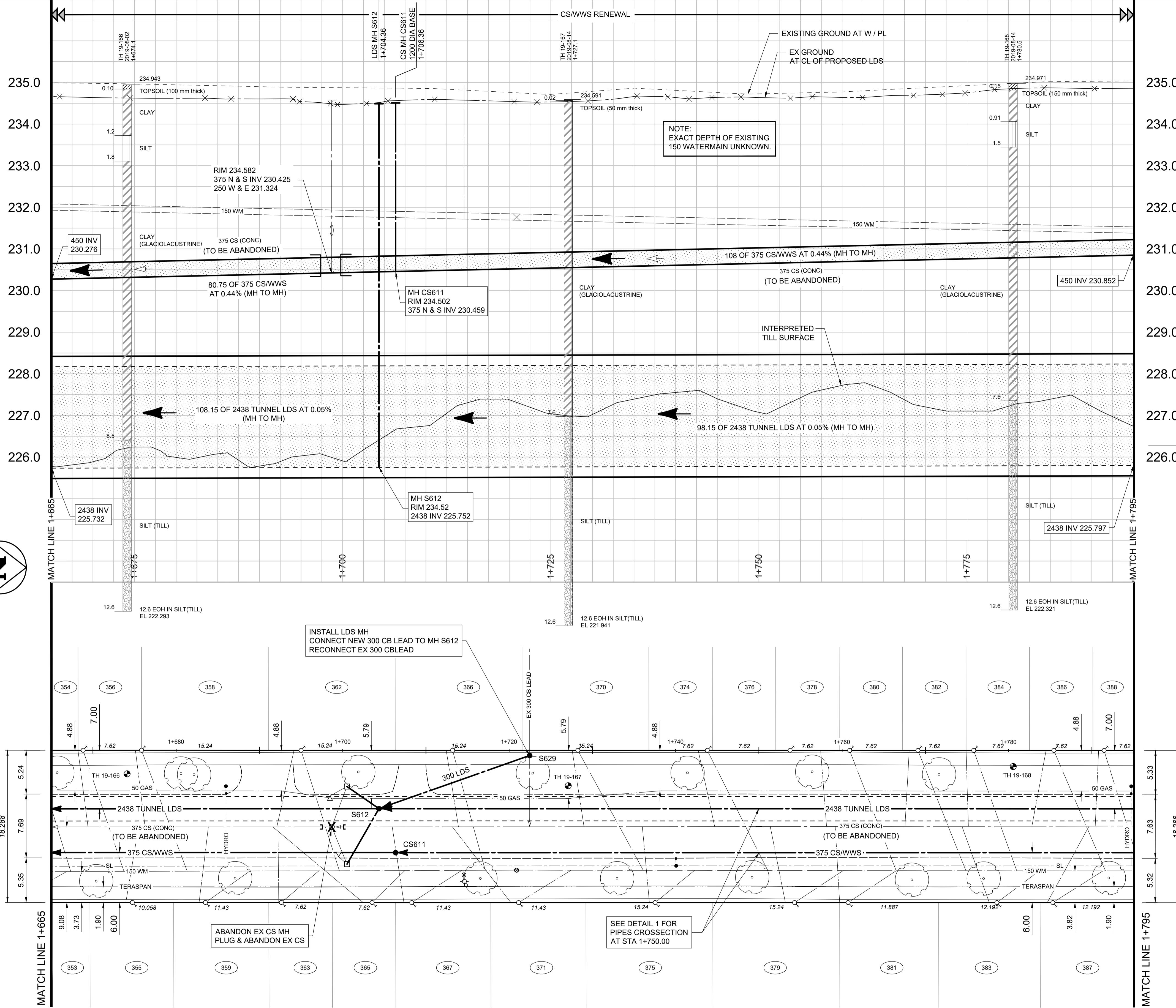
RUTLAND STREET  
15m SOUTH OF BRUCE AVENUE  
TO 105m NORTH OF BRUCE AVENUE

CITY DRAWING NUMBER LD-13026  
SHEET 10 OF 24  
C0610





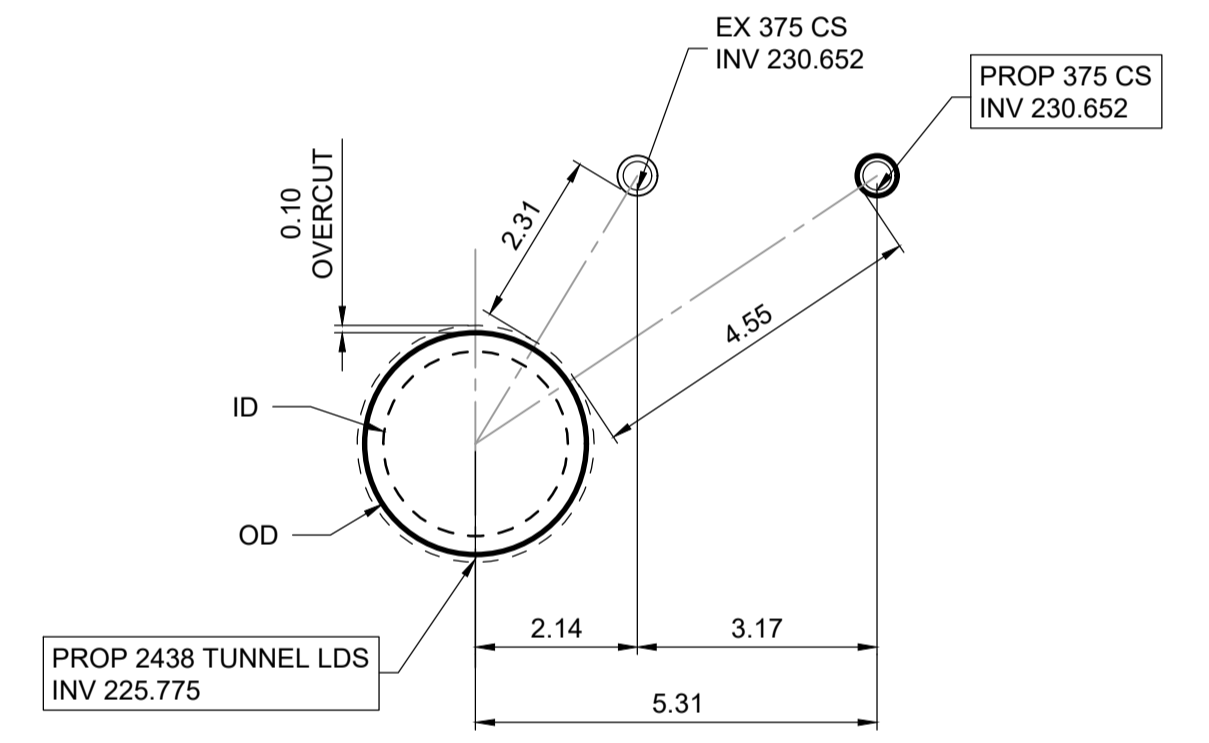
X:\A-GCITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 00121001203.00 - FERRY ROAD/CONTRACT 6/AD/CONT 6/PRODUCTION DRAWINGS/C0614 1000120300-DWG-C0614 RUTLAND.DWG 2024-05-27 3:42 PM



- CONSTRUCTION NOTES:**
1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
  4. RECONNECT SEWER SERVICES TO NEW CS/WWWS.

- GENERAL NOTES:**
1. CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  2. STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

NSWL EL 226.27



SECTION AT STA 1+750  
1 : 100

SEE DRAWING C0614

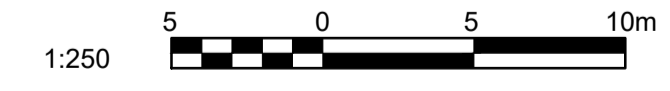
**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**ENGINEERS  
GEOSCIENTISTS  
MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

RFQ No. 286-2024A



**RUTLAND STREET**



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	150 WM	BEND	150 WM	ANCHOR	ANCHOR	ANCHOR
400 FM	FEEDERMAIN	400 FM	400 FM	TEE	400 FM	TREE	TREE	TREE
300 LDS	LAND DRAINAGE SEWER	300 LDS	300 LDS	CURB STOP	300 LDS	LEGAL DIMENSION	LEGAL DIMENSION	LEGAL DIMENSION
250 WWS	WASTEWATER SEWER	250 WWS	250 WWS	PLUG	250 WWS	SURVEY BAR	SURVEY BAR	SURVEY BAR
300 CS	COMBINED SEWER	300 CS	300 CS	MANHOLE	300 CS	GAS	GAS	GAS
200 FCM	FORCEMAIN	200 FCM	200 FCM	CATCHBASIN	200 FCM	HYDRO	HYDRO	HYDRO
JUNCTIONS	JUNCTIONS	JUNCTIONS	JUNCTIONS	CURB INLET	JUNCTIONS	MTS	MTS	MTS
HYDRANT	HYDRANT	HYDRANT	HYDRANT	ADDRESS	HYDRANT	CURB	CURB	CURB
VALVE	VALVE	VALVE	VALVE	HYDRO POLE	VALVE	SIDEWALK	SIDEWALK	SIDEWALK
REDUCER	REDUCER	REDUCER	REDUCER	LIGHT STANDARD	REDUCER	TEST HOLE LOCATION	TEST HOLE LOCATION	TEST HOLE LOCATION

**LOCATION APPROVED UNDERGROUND STRUCTURES**

SUPV.	UIG 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. CITY OF WINNIPEG 38-069  
ELEV. 233.792m

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: KJM	CHECKED BY: TRC
DRAWN BY: NL	APPROVED BY: IJM
HOR. SCALE: 1:250	RELEASED FOR CONSTRUCTION
VERTICAL: 1:50	
DATE: 2024-05-27	DATE:

**PRELIMINARY DRAWING**  
NOT TO BE USED FOR CONSTRUCTION  
CONSULTANT DRAWING NO. 1000120300-DWG-C0613

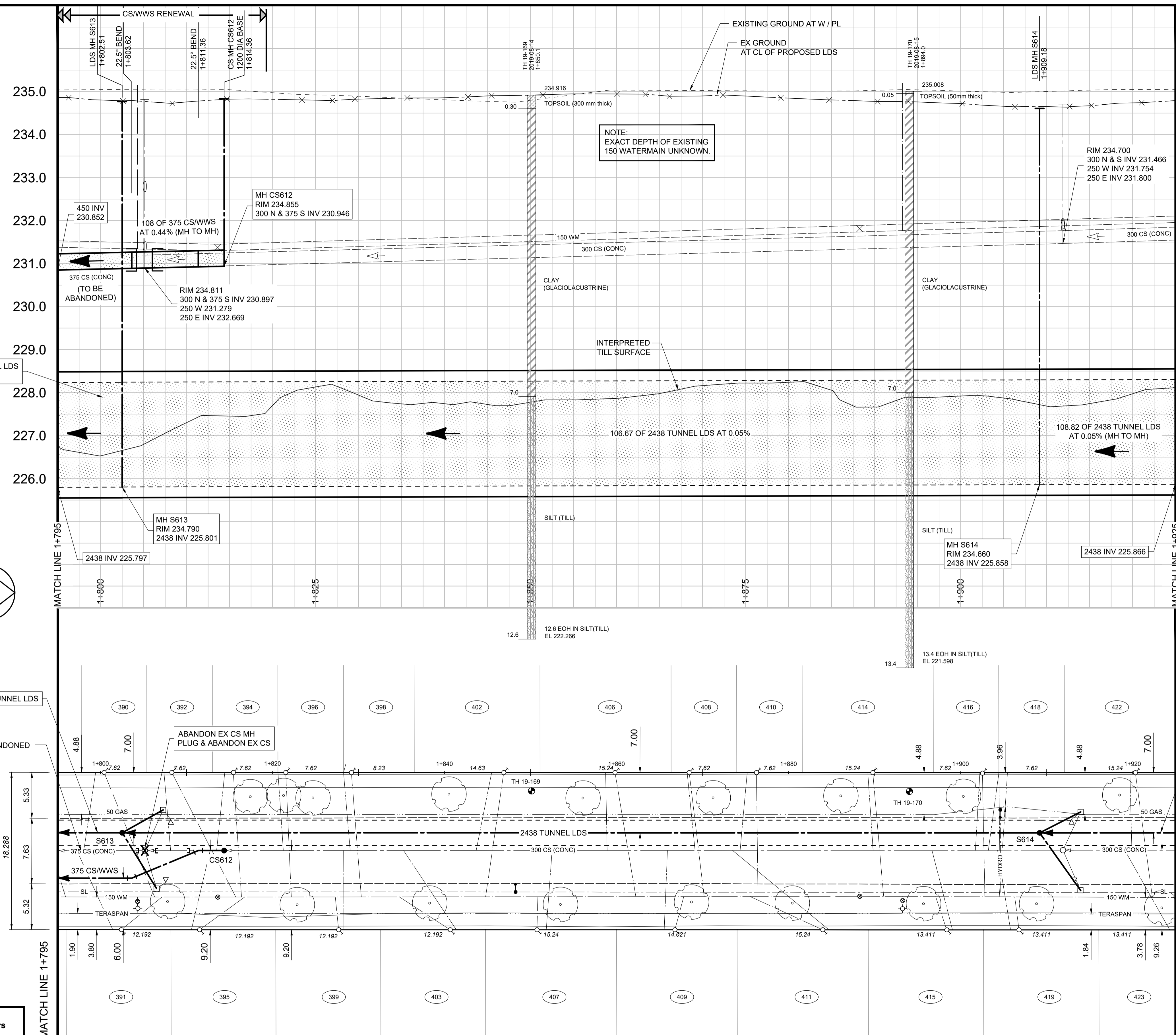
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS  
CONTRACT 6

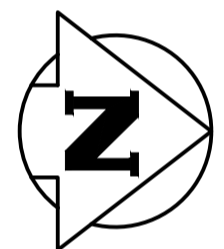
**RUTLAND STREET**  
43m NORTH OF NESS AVENUE  
TO 130m NORTH

CITY DRAWING NUMBER LD-13029  
SHEET 13 OF 24  
C0613

X:\A-GCITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 00121001203.00 - FERRY ROAD/CONTRACT 6/PRODUCTION DRAWINGS/C0614 1000120300-DWG-C0614 RUTLAND.DWG 2024-05-27 3:42 PM



- CONSTRUCTION NOTES:**
1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
  4. RECONNECT SEWER SERVICES TO NEW CS/WWS.
- GENERAL NOTES:**
1. CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  2. STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.



SEE DRAWING C0613

SEE DRAWING C0615

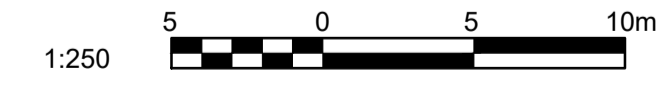
**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES  
RFQ No. 286-2024A



**ENGINEERS  
GEOSCIENTISTS  
MANITOBA**

Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

**RUTLAND STREET**



150 WM	WATERMAIN	150 WM	1	BEND	1	ANCHOR	1
400 FM	FEEDERMAIN	400 FM	1	TEE	1	TREE	1
300 LDS	LAND DRAINAGE SEWER	300 LDS	1	CURB STOP	1	LEGAL DIMENSION	1
250 WWS	WASTEWATER SEWER	250 WWS	1	PLUG	1	SURVEY BAR	1
300 CS	COMBINED SEWER	300 CS	1	MANHOLE	1	GAS	1
200 FCM	FORCEMAIN	200 FCM	1	CATCHBASIN	1	HYDRO	1
	JUNCTIONS		1	CURB INLET	1	MTS	1
	HYDRANT		1	ADDRESS	1	CURB	1
	VALVE		1	HYDRO POLE	1	SIDEWALK	1
	REDUCER		1	LIGHT STANDARD	1	TEST HOLE LOCATION	1
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN

**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. CITY OF WINNIPEG 38-069  
ELEV. 233.792m

D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM
NO.	REVISIONS	DATE	BY

**TETRA TECH**

DESIGNED BY	ML	CHECKED BY	TRC
DRAWN BY	NL	APPROVED BY	GS
HOR. SCALE:	1 : 250	RELEASED FOR CONSTRUCTION	
VERTICAL:	1 : 50		
DATE	2024-05-27	DATE	

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO.  
1000120300-DWG-C0614

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS  
CONTRACT 6

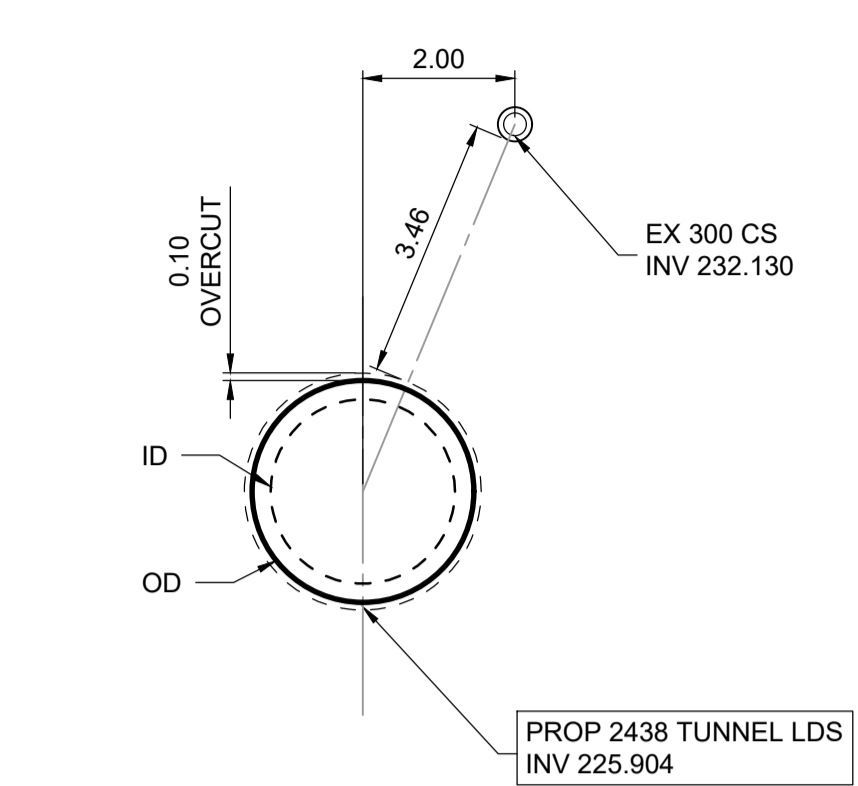
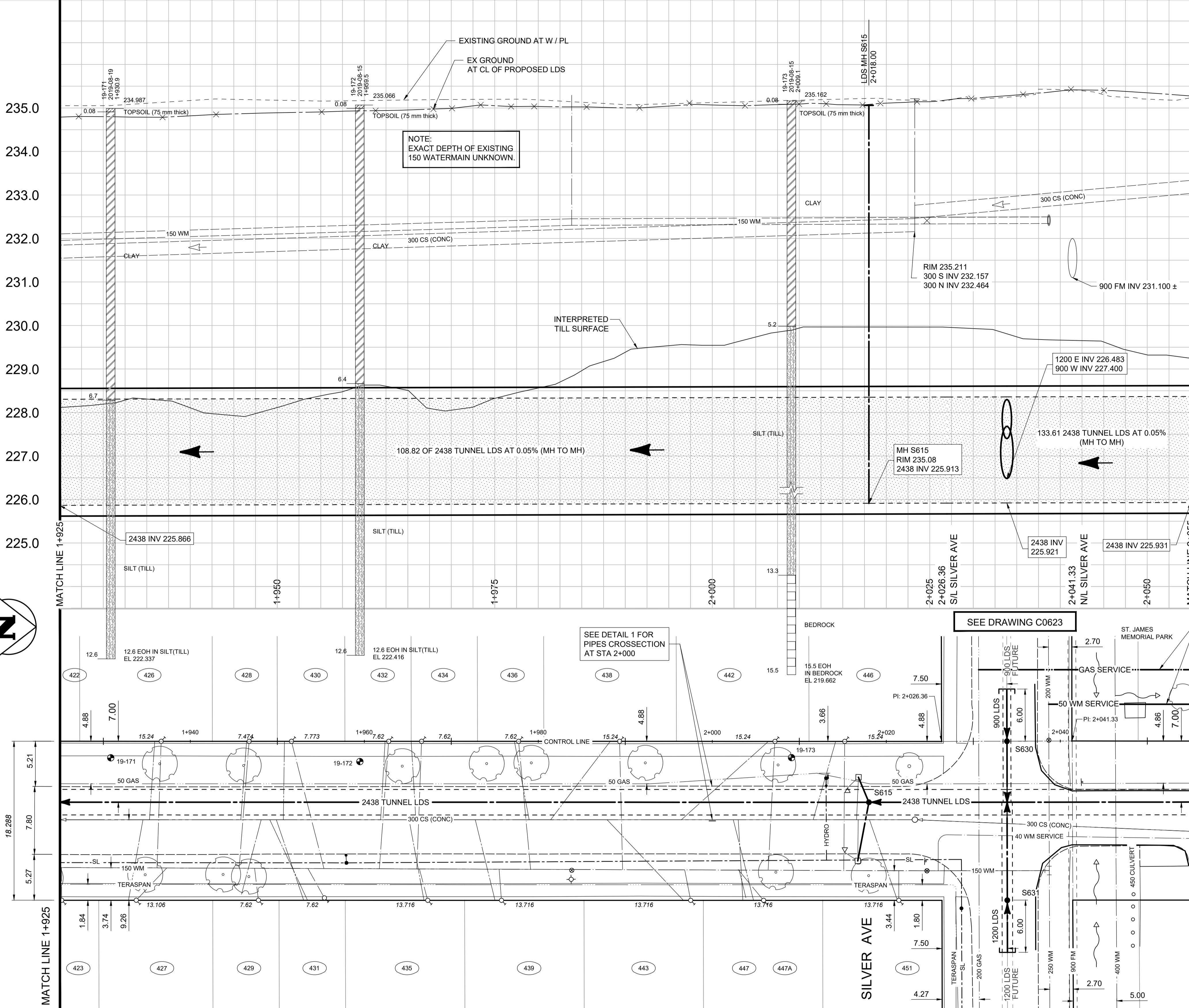
RUTLAND STREET  
FROM STA 1+795  
TO 101m SOUTH OF SILVER AVENUE

CITY DRAWING NUMBER  
LD-13030

SHEET 14 OF 24

C0614

X:\A-CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 001210001203.00 - FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS - 618 RUTLAND OPT.LDWG 2024-05-27 4:38 PM



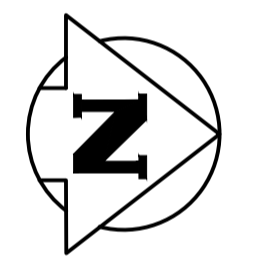
SECTION AT STA 2+000  
1:100

- CONSTRUCTION NOTES:**
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  - SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  - INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
- GENERAL NOTES:**
- CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  - STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  - SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

RELOCATE GAS & WATER SERVICES PRIOR TO SHAFT CONSTRUCTION

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



SEE DRAWING C0614

SEE DRAWING C0616

**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

**RUTLAND STREET**

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	ANCHOR	ANCHOR	ANCHOR	LOCATION APPROVED	LOCATION APPROVED	LOCATION APPROVED
400 FM	FEEDERMAIN	400 FM	TREE	TREE	TREE	UNDERGROUND STRUCTURES	UNDERGROUND STRUCTURES	UNDERGROUND STRUCTURES
300 LDS	LAND DRAINAGE SEWER	300 LDS	CURB STOP	CURB STOP	CURB STOP			
250 WWS	WASTEWATER SEWER	250 WWS	PLUG	PLUG	PLUG			
300 CS	COMBINED SEWER	300 CS	MANHOLE	MANHOLE	MANHOLE			
200 FCM	FORCEMAIN	200 FCM	CATCHBASIN	CATCHBASIN	CATCHBASIN			
	JUNCTIONS		CURB INLET	CURB INLET	CURB INLET			
	HYDRANT		ADDRESS	ADDRESS	ADDRESS			
	VALVE		HYDRO POLE	HYDRO POLE	HYDRO POLE			
	REDUCER		LIGHT STANDARD	LIGHT STANDARD	LIGHT STANDARD			

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: ML  
CHECKED BY: TRC

DRAWN BY: NL  
APPROVED BY: GS

HOR. SCALE: 1:250  
VERTICAL: 1:50

DATE: 2024-05-27  
DATE:

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO. 1000120300-DWG-C0615

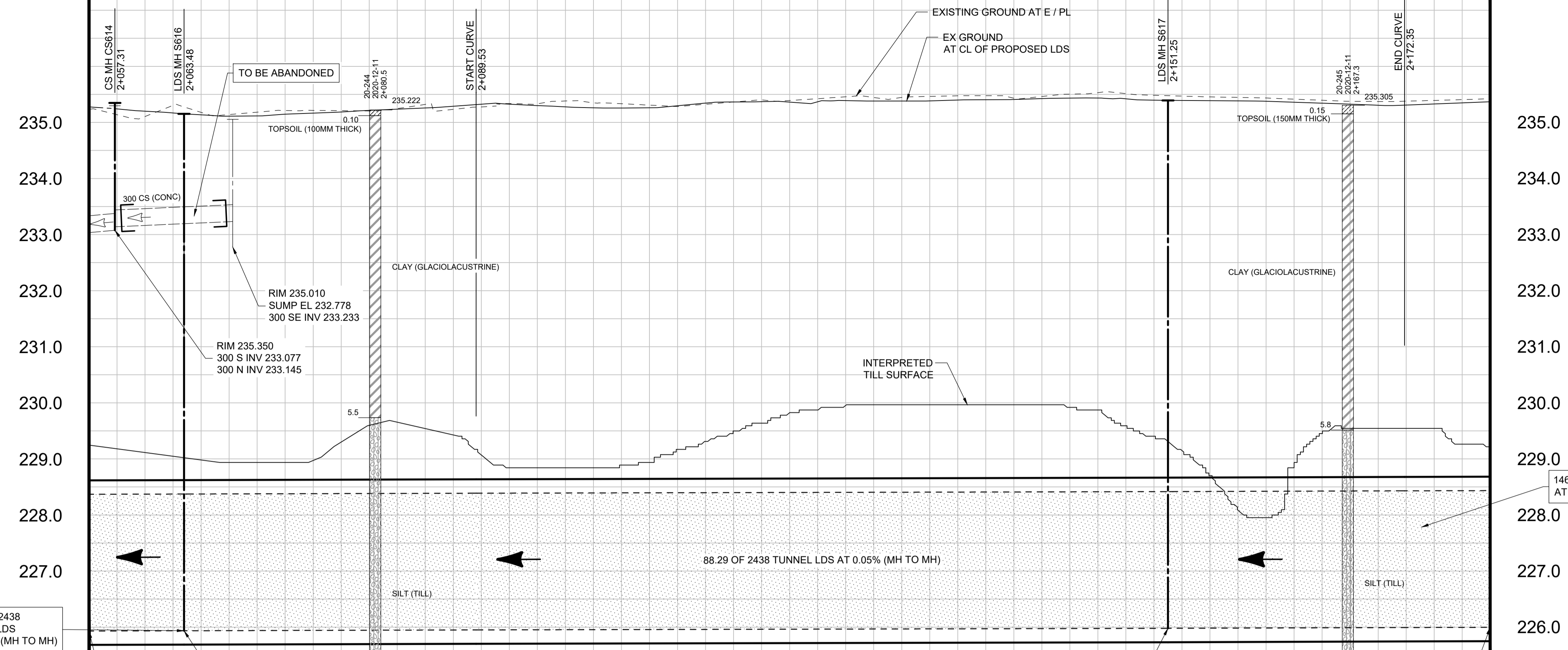
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS  
CONTRACT 6

RUTLAND STREET  
101m SOUTH OF SILVER AVENUE  
TO 14m NORTH OF SILVER AVENUE

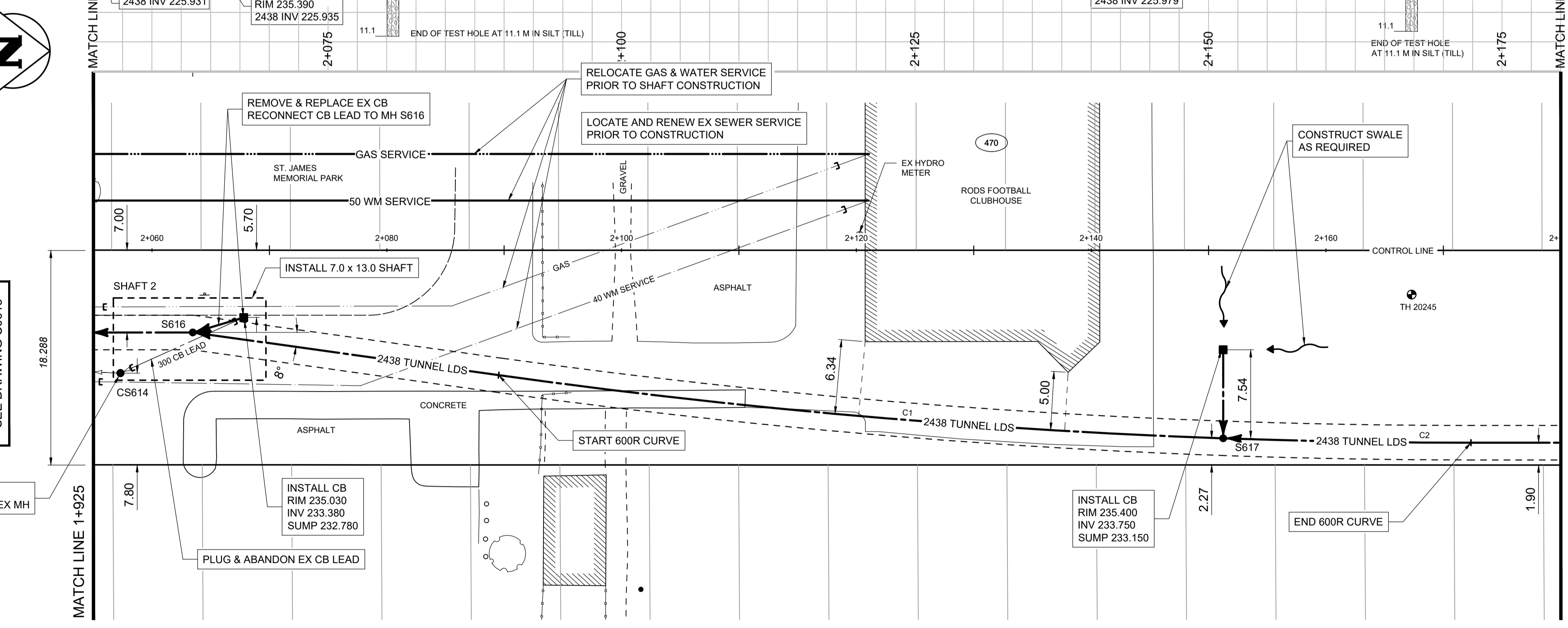
CITY DRAWING NUMBER LD-13031  
SHEET 15 OF 24  
C0615

X:\A-CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 001210001203.00 - FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS - 618 RUTLAND OFF P2.DWG 2024-05-30 2:05 PM



- CONSTRUCTION NOTES:**
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  - SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  - INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
- GENERAL NOTES:**
- CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  - STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  - SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

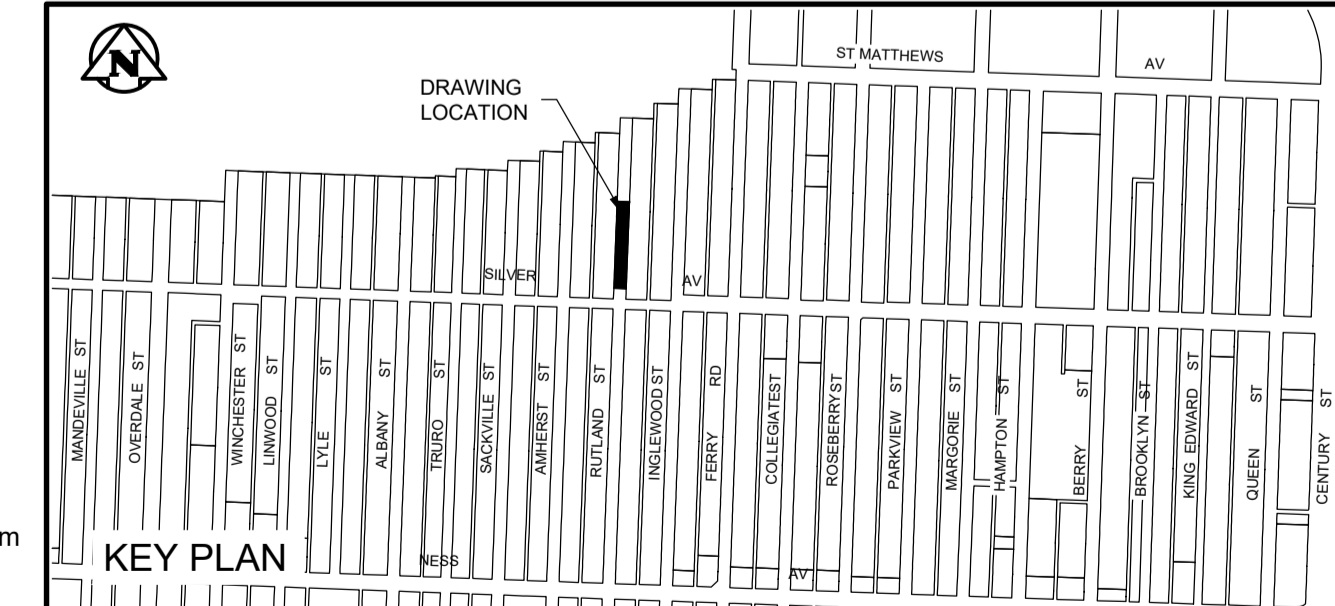
PIPE CURVE DATA				
PIPE	RADIUS	DELTA	TANGENT	ARC LENGTH
(C1) 3048 TUNNEL	600.000	5°55'08"	31.019	61.982
(C2) 3048 TUNNEL	600.000	2°00'55"	10.554	21.105



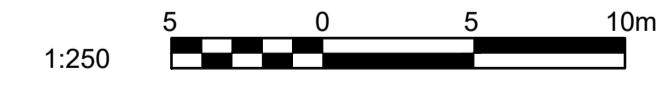
**ENGINEERS GEOSCIENTISTS MANITOBA**  
 Certificate of Authorization  
 Tetra Tech Canada Inc.  
 No. 6499

**METRIC**  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



**RUTLAND STREET**



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	ANCHOR	ANCHOR	ANCHOR	15.240	TREE	TREE
400 FM	FEEDERMAIN	400 FM	TEE	TEE	TEE		LEGAL DIMENSION	LEGAL DIMENSION
300 LDS	LAND DRAINAGE SEWER	300 LDS	CURB STOP	CURB STOP	CURB STOP		SURVEY BAR	SURVEY BAR
250 WWS	WASTEWATER SEWER	250 WWS	PLUG	PLUG	PLUG		GAS	GAS
300 CS	COMBINED SEWER	300 CS	MANHOLE	MANHOLE	MANHOLE		HYDRO	HYDRO
200 FCM	FORCEMAIN	200 FCM	CATCHBASIN	CATCHBASIN	CATCHBASIN		MTS	MTS
	JUNCTIONS		CURB INLET	CURB INLET	CURB INLET		CURB	CURB
	HYDRANT		ADDRESS	ADDRESS	ADDRESS		SIDEWALK	SIDEWALK
	VALVE		HYDRO POLE	HYDRO POLE	HYDRO POLE		TEST HOLE LOCATION	TEST HOLE LOCATION
	REDUCER		LIGHT STANDARD	LIGHT STANDARD	LIGHT STANDARD			

**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.

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: KJM  
 CHECKED BY: TRC  
 DRAWN BY: NL  
 APPROVED BY: IJM  
 HOR. SCALE: 1:250  
 VERTICAL: 1:50  
 DATE: 2024-05-30

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO. 1000120300-DWG-C0616

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

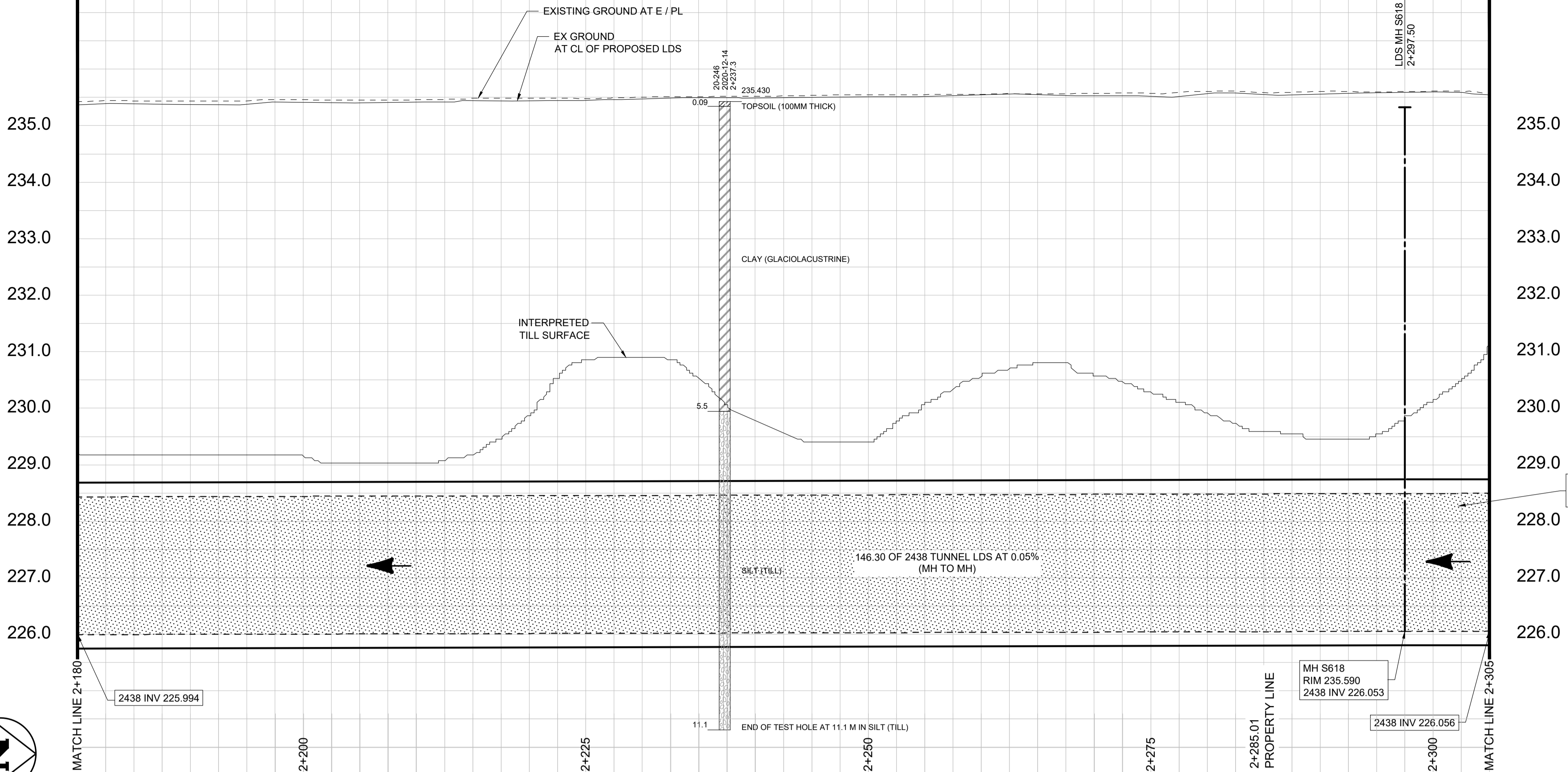
FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

RUTLAND STREET  
 14m NORTH OF SILVER AVENUE TO 125m NORTH

CITY DRAWING NUMBER LD-13032  
 SHEET 16 OF 24  
 C0616



X:\A-CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 001210001203.00 - FERRY ROAD/CONTRACT 6/CAD/PRODUCTION DRAWINGS/C0616 TO C0618/1000120300-DWG-C0616\_018.RUTLAND OPT2.DWG 2024-05-28 9:57 AM



90.57 OF 2438 TUNNEL LDS AT 0.05% (MH TO MH)

146.30 OF 2438 TUNNEL LDS AT 0.05% (MH TO MH)

MH S618  
RIM 235.590  
2438 INV 226.053

END OF TEST HOLE AT 11.1 M IN SILT (TILL)

2438 INV 225.994

2438 INV 226.056



## RUTLAND STREET

- CONSTRUCTION NOTES:**
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  - SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  - INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.

- GENERAL NOTES:**
- CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  - STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  - SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

**ENGINEERS  
GEOSCIENTISTS  
MANITOBA**

Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

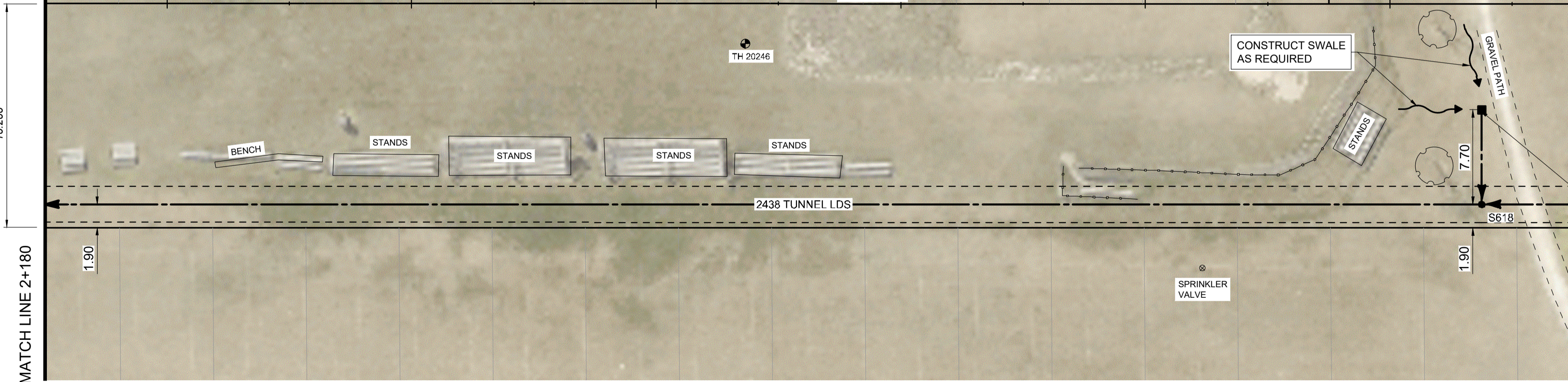
**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A

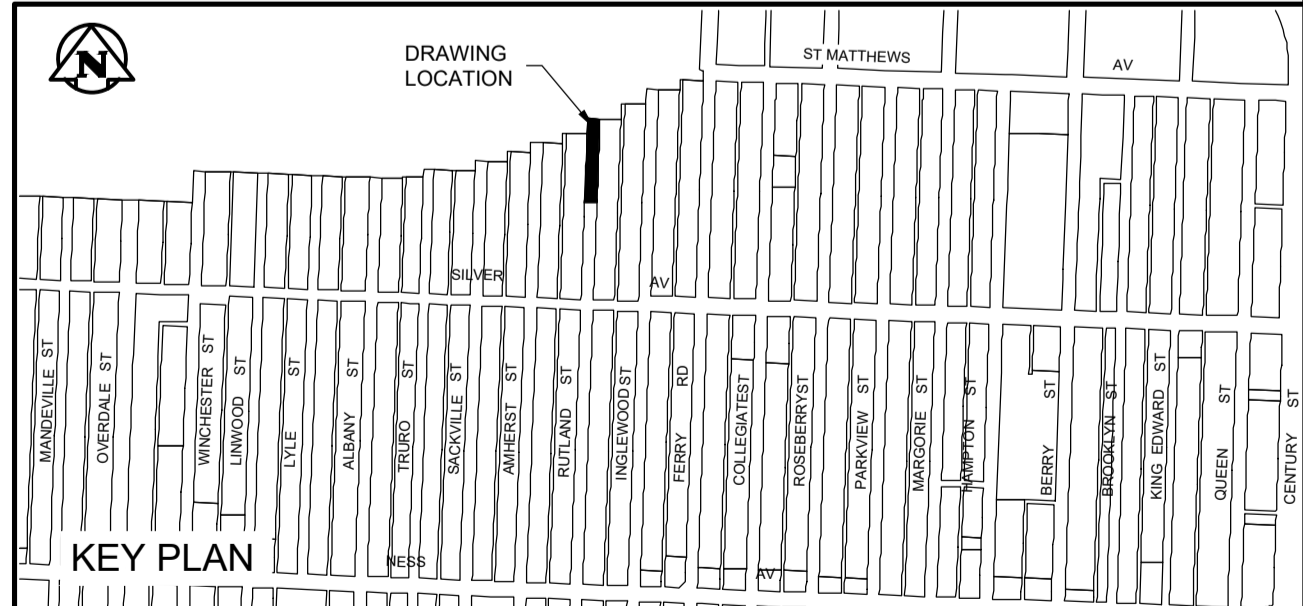
SEE DRAWING C0616

SEE DRAWING C0618

MATCH LINE 2+305



INSTALL CB  
RIM 235.600  
INV 233.940  
SUMP 233.340



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	ANCHOR	ANCHOR	ANCHOR	15.240	LEGAL DIMENSION	LEGAL DIMENSION
400 FM	FEEDERMAIN	400 FM	TEE	TEE	TEE		TREE	TREE
300 LDS	LAND DRAINAGE SEWER	300 LDS	CURB STOP	CURB STOP	CURB STOP		SURVEY BAR	SURVEY BAR
250 WWS	WASTEWATER SEWER	250 WWS	PLUG	PLUG	PLUG		GAS	GAS
300 CS	COMBINED SEWER	300 CS	MANHOLE	MANHOLE	MANHOLE		HYDRO	HYDRO
200 FCM	FORCEMAIN	200 FCM	CATCHBASIN	CATCHBASIN	CATCHBASIN		MTS	MTS
	JUNCTIONS		CURB INLET	CURB INLET	CURB INLET		CURB	CURB
	HYDRANT		ADDRESS	ADDRESS	ADDRESS		SIDEWALK	SIDEWALK
	VALVE		HYDRO POLE	HYDRO POLE	HYDRO POLE		TEST HOLE LOCATION	TEST HOLE LOCATION
	REDUCER		LIGHT STANDARD	LIGHT STANDARD	LIGHT STANDARD			

**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.

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: ML	CHECKED BY: TRC
DRAWN BY: NL	APPROVED BY: GS
HOR. SCALE: 1:250	RELEASED FOR CONSTRUCTION
VERTICAL: 1:50	
DATE: 2024-05-28	DATE:

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO.  
1000120300-DWG-C0617

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

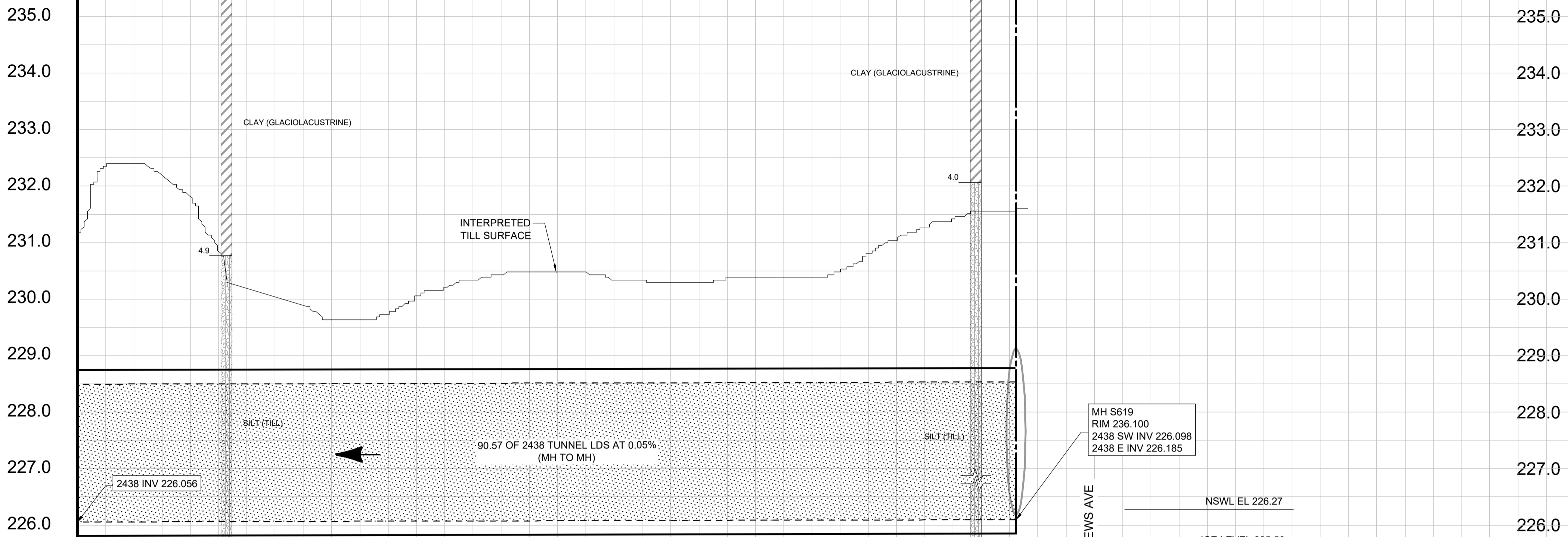
FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

CITY DRAWING NUMBER  
LD-13033

SHEET 17 OF 24

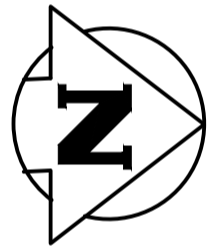
C0617

X:\A-G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 0072100012031.00 - FERRY ROAD/CONTRACT 6/CAD/FR CONT 6 PRODUCTION DRAWINGS/C0616\_618 RUTLAND OPT2.DWG 2024-05-28 10:05 AM

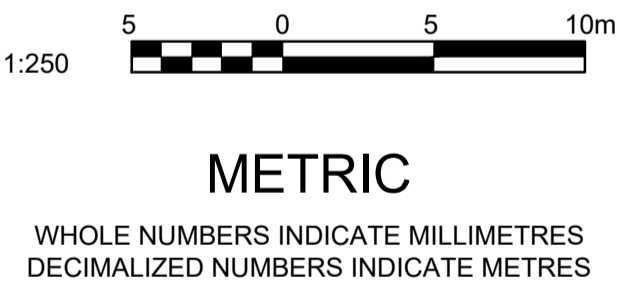
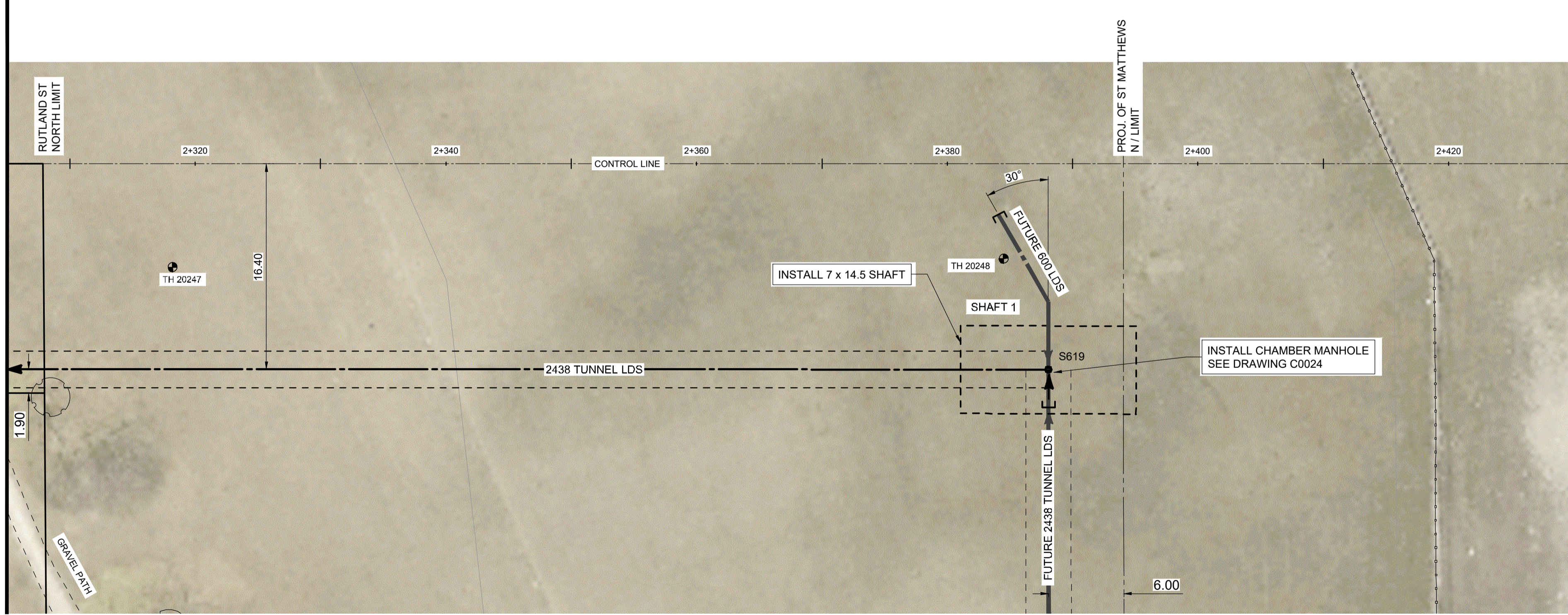


- CONSTRUCTION NOTES:**
1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.

- GENERAL NOTES:**
1. CHAINAGE IS ALONG WEST LIMIT OF RUTLAND ST.
  2. STATION 1+000 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF PORTAGE AVENUE.
  3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.



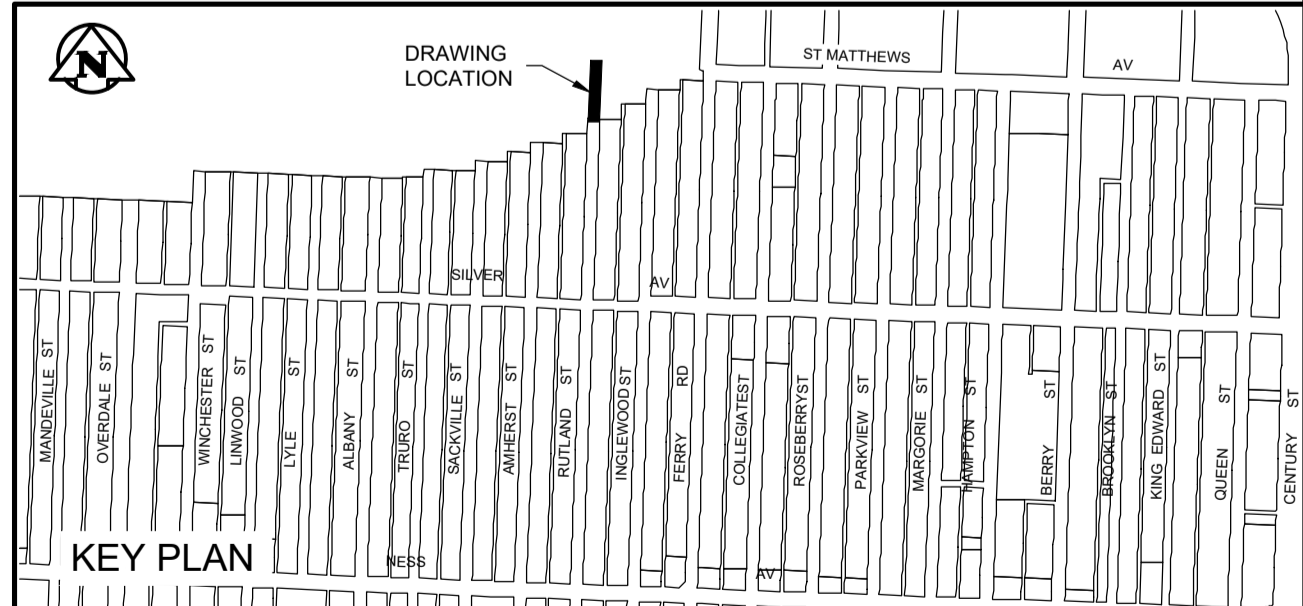
SEE DRAWING C0617



**ENGINEERS  
GEOSCIENTISTS  
MANITOBA**

Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

RFQ No. 286-2024A



EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	ANCHOR	ANCHOR				
400 FM	FEEDERMAIN	400 FM	TEE	TEE				
300 LDS	LAND DRAINAGE SEWER	300 LDS	CURB STOP	CURB STOP				
250 WWS	WASTEWATER SEWER	250 WWS	PLUG	PLUG				
300 CS	COMBINED SEWER	300 CS	MANHOLE	MANHOLE				
200 FCM	FORCEMAIN	200 FCM	CATCHBASIN	CATCHBASIN				
	JUNCTIONS		CURB INLET	CURB INLET				
	HYDRANT		ADDRESS	ADDRESS				
	VALVE		HYDRO POLE	HYDRO POLE				
	REDUCER		LIGHT STANDARD	LIGHT STANDARD				

**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. CITY OF WINNIPEG 38-069  
ELEV. 233.792m

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY KJM	CHECKED BY TRC
DRAWN BY NL	APPROVED BY IJM
HOR. SCALE: 1:250	RELEASED FOR CONSTRUCTION
VERTICAL: 1:50	
DATE 2024-05-28	DATE

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO.  
1000120300-DWG-C0618

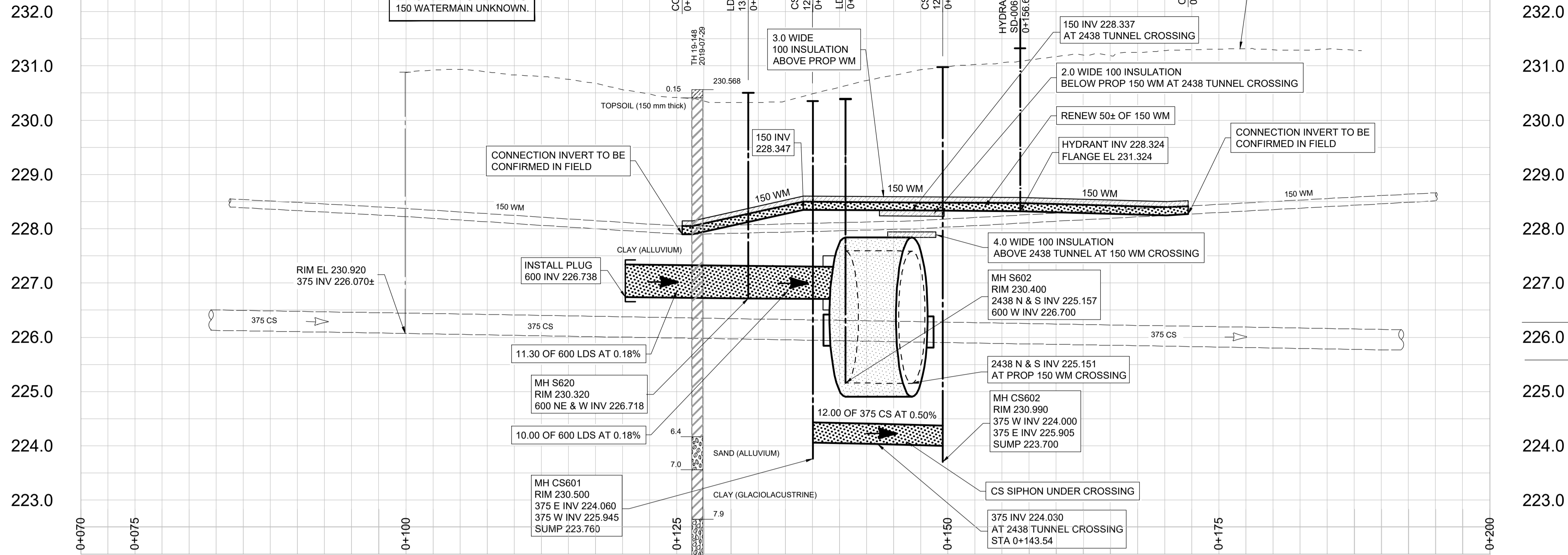
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS  
KJM

RUTLAND STREET  
NORTH LIMIT OF RUTLAND STREET  
TO PROJECTION OF NORTH LIMIT OF ST MATTHEWS AVE

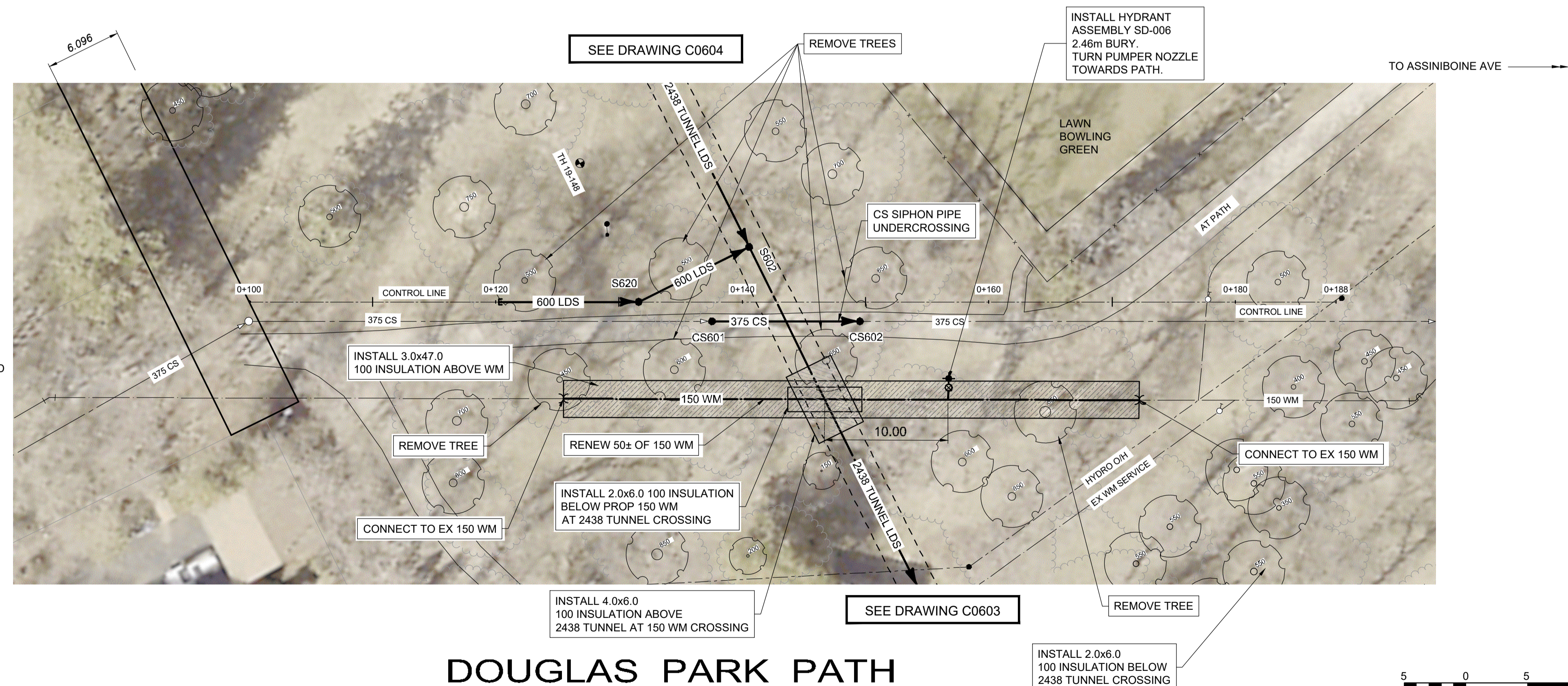
CITY DRAWING NUMBER  
LD-  
SHEET 18 OF 24  
C0618

X:\A\G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 001210001203.00 - FERRY ROAD/CONTRACT 6/CAD/FR CONT 6 PRODUCTION DRAWINGS/C0619 1000120300-DWG-C0619 DOUGLAS PARK DWG 2024-05-29 1:35 PM



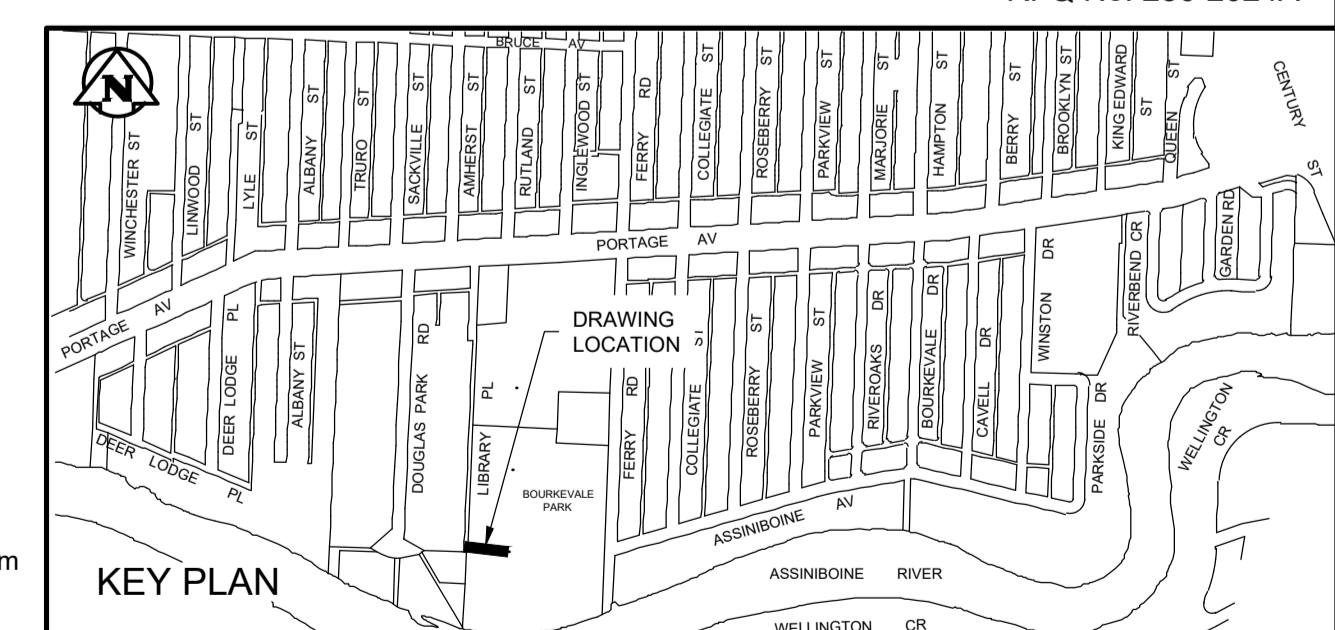
- CONSTRUCTION NOTES:**
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  - SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  - INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
- GENERAL NOTES:**
- CHAINAGE IS ALONG PROJECTED CENTRELINE OF PROPOSED 600 LDS.
  - STATION 1+000 = EAST LIMIT OF LIBRARY STREET.
  - SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.

NSWL EL 226.27  
ICE LEVEL 225.56



### DOUGLAS PARK PATH

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES



**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	⌒	BEND	⌒	⌒	ANCHOR	⌒
400 FM	FEEDERMAIN	400 FM	⌒	TEE	⌒	⌒	TREE	⌒
300 LDS	LAND DRAINAGE SEWER	300 LDS	⌒	CURB STOP	⌒	15.240	LEGAL DIMENSION	⌒
250 WWS	WASTEWATER SEWER	250 WWS	⌒	PLUG	⌒	⌒	SURVEY BAR	⌒
300 CS	COMBINED SEWER	300 CS	⌒	MANHOLE	⌒	⌒	GAS	⌒
200 FCM	FORCEMAIN	200 FCM	⌒	CATCHBASIN	⌒	⌒	HYDRO	⌒
⌒	JUNCTIONS	⌒	⌒	CURB INLET	⌒	⌒	MTS	⌒
⊕	HYDRANT	⊕	⊕	ADDRESS	⊕	⊕	CURB	⊕
⊕	VALVE	⊕	⊕	HYDRO POLE	⊕	⊕	SIDEWALK	⊕
⌒	REDUCER	⌒	⌒	LIGHT STANDARD	⌒	⌒	TEST HOLE LOCATION	⌒
⌒	EXISTING	⌒	⌒	PROPOSED	⌒	⌒	PROPOSED	⌒

**LOCATION APPROVED UNDERGROUND STRUCTURES**

SUP.	U/G STRUCTURES	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. CITY OF WINNIPEG 38-069  
ELEV. 233.792m

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: KJM	CHECKED BY: TRC
DRAWN BY: NL	APPROVED BY: IJM
HOR. SCALE: 1:250	RELEASED FOR CONSTRUCTION
VERTICAL: 1:50	
DATE: 2024-05-29	DATE:

**PRELIMINARY DRAWING**  
NOT TO BE USED FOR CONSTRUCTION  
CONSULTANT DRAWING NO. 1000120300-DWG-C0619

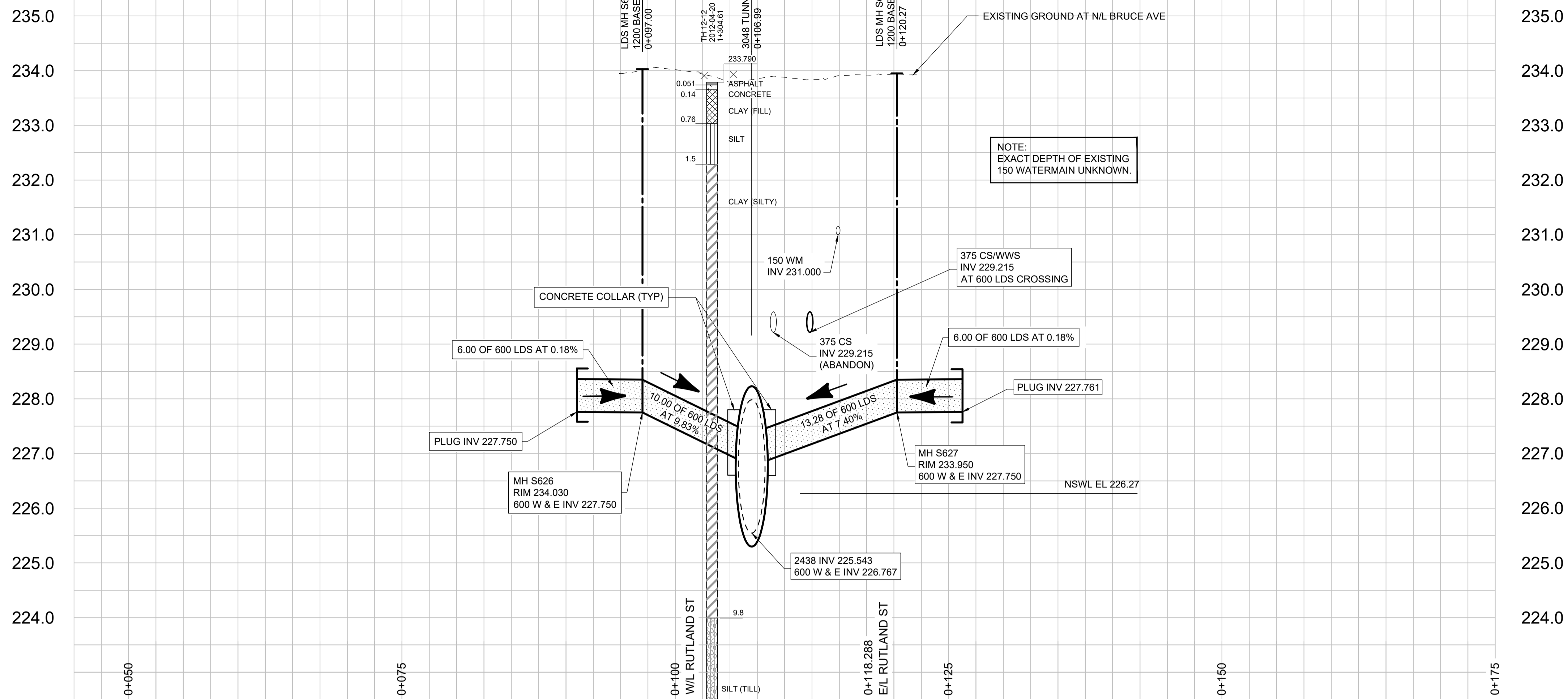
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6  
DOUGLAS PARK PATH  
600 LDS

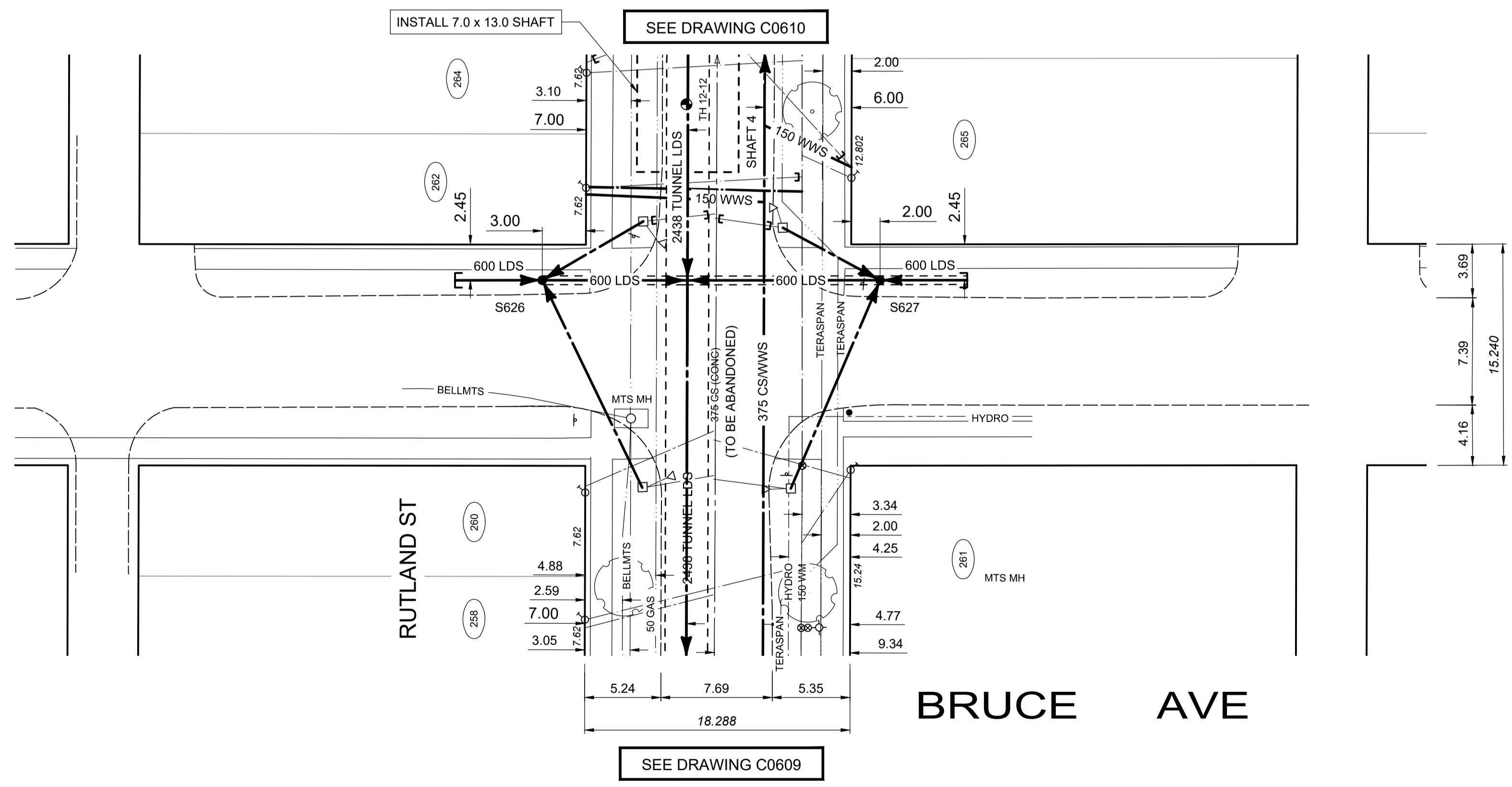
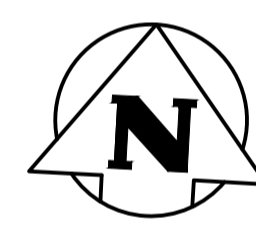
CITY DRAWING NUMBER LD-13035  
SHEET 19 OF 24  
C0619



X:\A\ACTIVITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 001210001203.00 - FERRY ROAD/CONTRACT 6 PRODUCTION DRAWINGS\C0621\_1000120300-DWG-C0621 BRUCE AVE.DWG 2024-05-28 10:27 AM

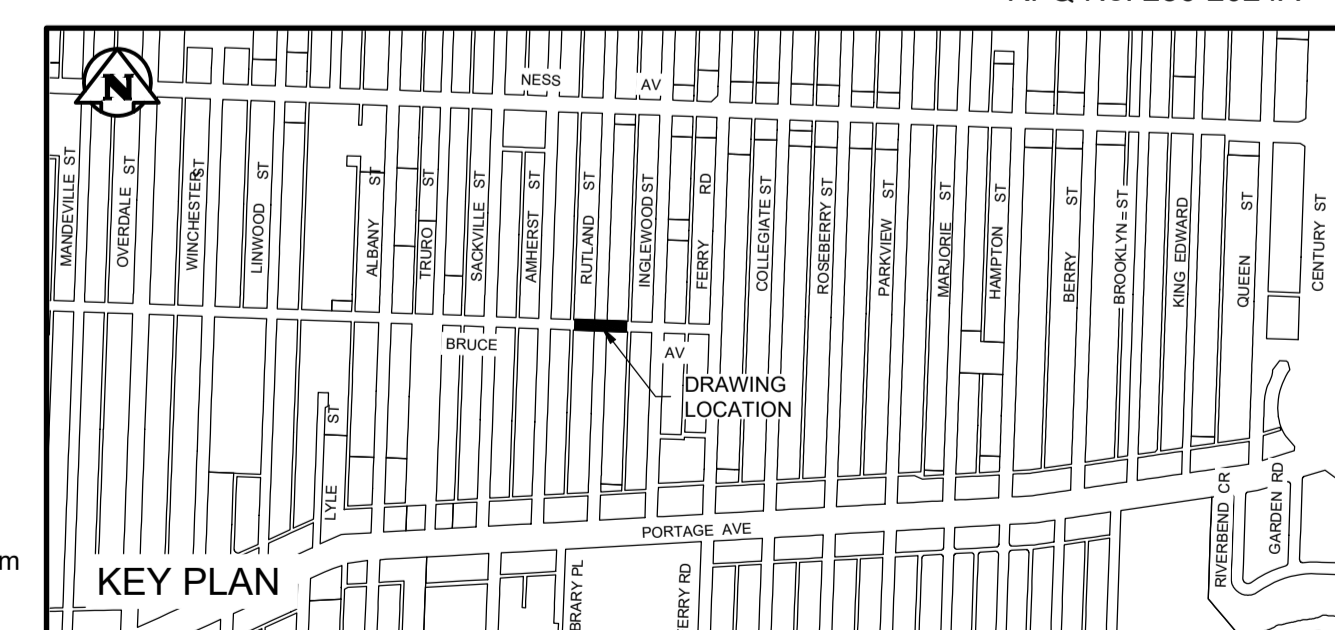


- CONSTRUCTION NOTES:**
1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
- GENERAL NOTES:**
1. CHAINAGE IS ALONG NORTH LIMIT OF BRUCE AVENUE.
  2. STATION 1+00 = WEST LIMIT OF RUTLAND ST AND NORTH LIMIT OF BRUCE AVENUE.
  3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.



**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	150 WM	BEND	150 WM	ANCHOR	ANCHOR	ANCHOR
400 FM	FEEDERMAIN	400 FM	400 FM	TEE	400 FM	TREE	TREE	TREE
300 LDS	LAND DRAINAGE SEWER	300 LDS	300 LDS	CURB STOP	300 LDS	LEGAL DIMENSION	LEGAL DIMENSION	LEGAL DIMENSION
250 WWS	WASTEWATER SEWER	250 WWS	250 WWS	PLUG	250 WWS	SURVEY BAR	SURVEY BAR	SURVEY BAR
300 CS	COMBINED SEWER	300 CS	300 CS	MANHOLE	300 CS	GAS	GAS	GAS
200 FCM	FORCEMAIN	200 FCM	200 FCM	CATCHBASIN	200 FCM	HYDRO	HYDRO	HYDRO
	JUNCTIONS			CURB INLET		MTS	MTS	MTS
	HYDRANT			ADDRESS		CURB	CURB	CURB
	VALVE			HYDRO POLE		SIDEWALK	SIDEWALK	SIDEWALK
	REDUCER			LIGHT STANDARD		TEST HOLE LOCATION	TEST HOLE LOCATION	TEST HOLE LOCATION

**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.

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: ML  
DRAWN BY: NL

CHECKED BY: TRC  
APPROVED BY: GS

HOR. SCALE: 1:250  
VERTICAL: 1:50

DATE: 2024-05-28

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO. 1000120300-DWG-C0621

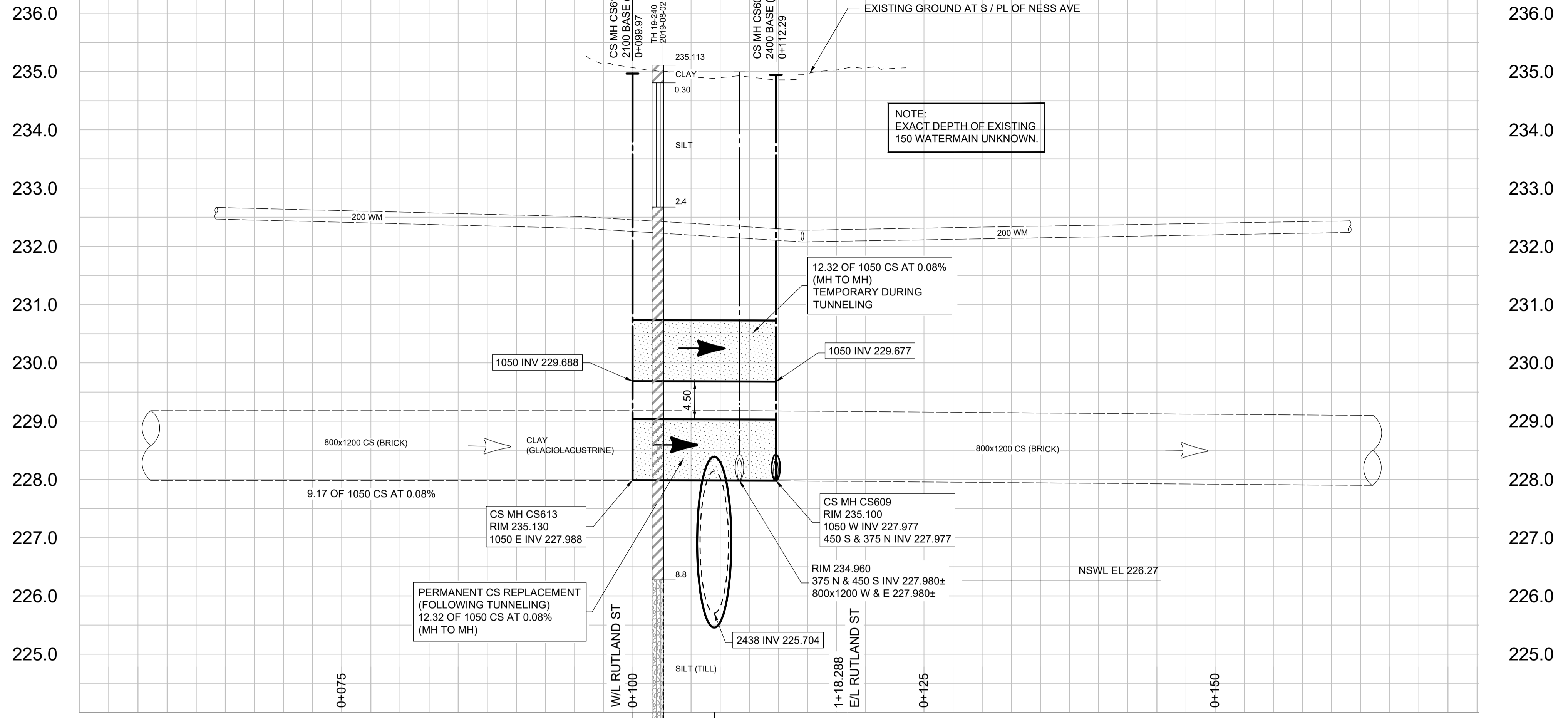
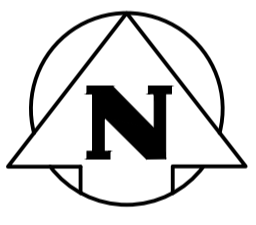
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

BRUCE AVENUE  
600 LDS

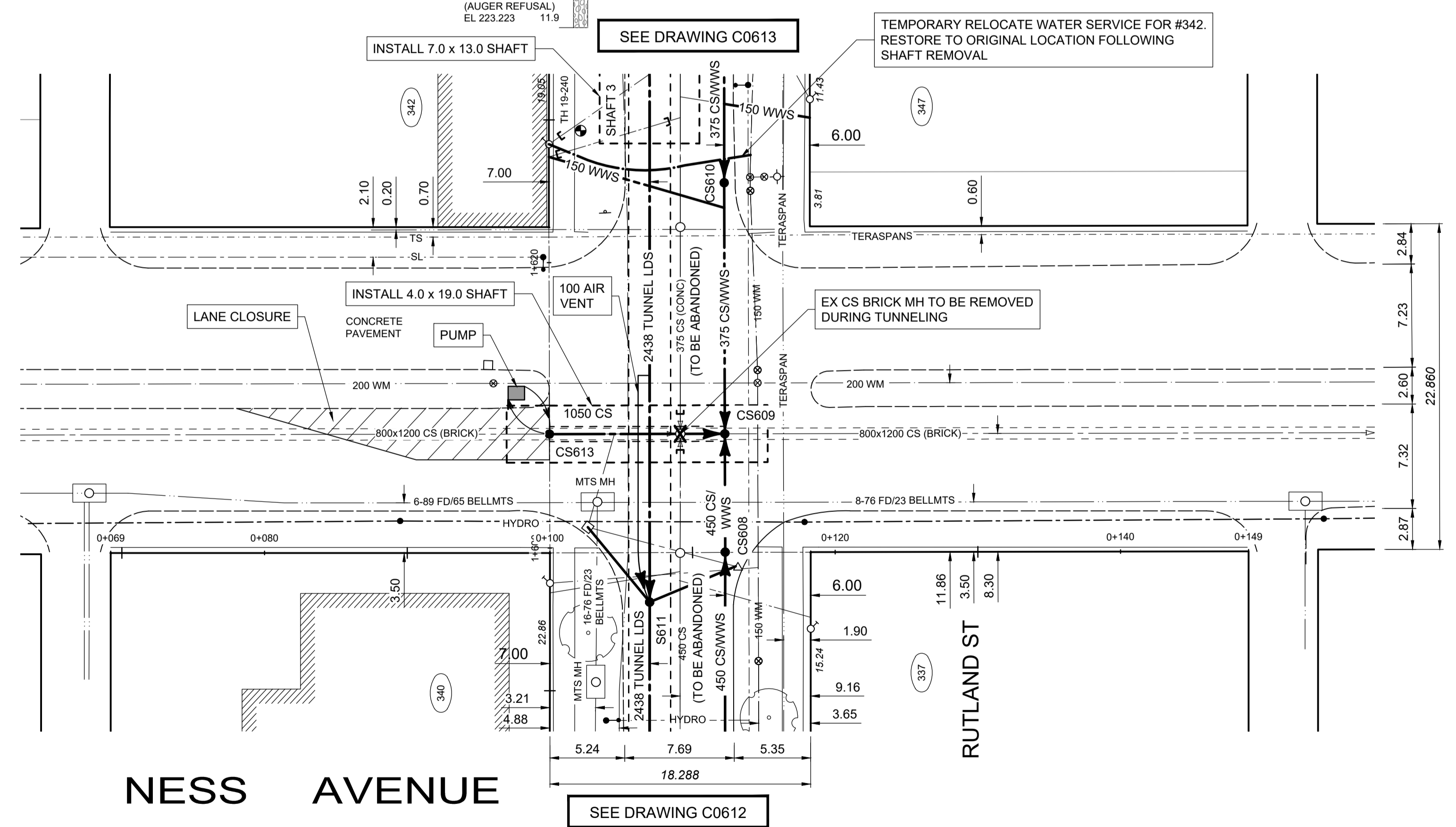
CITY DRAWING NUMBER LD-13037  
SHEET 21 OF 24  
C0621

X:\A\G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 001210001203.00 - FERRY ROAD/CONTRACT 6/CAD/FIR CONT 6/PRODUCTION DRAWINGS/C0622\_1000120300-DWG-C0622\_NESS AVE.DWG 2024-05-29 4:53 PM



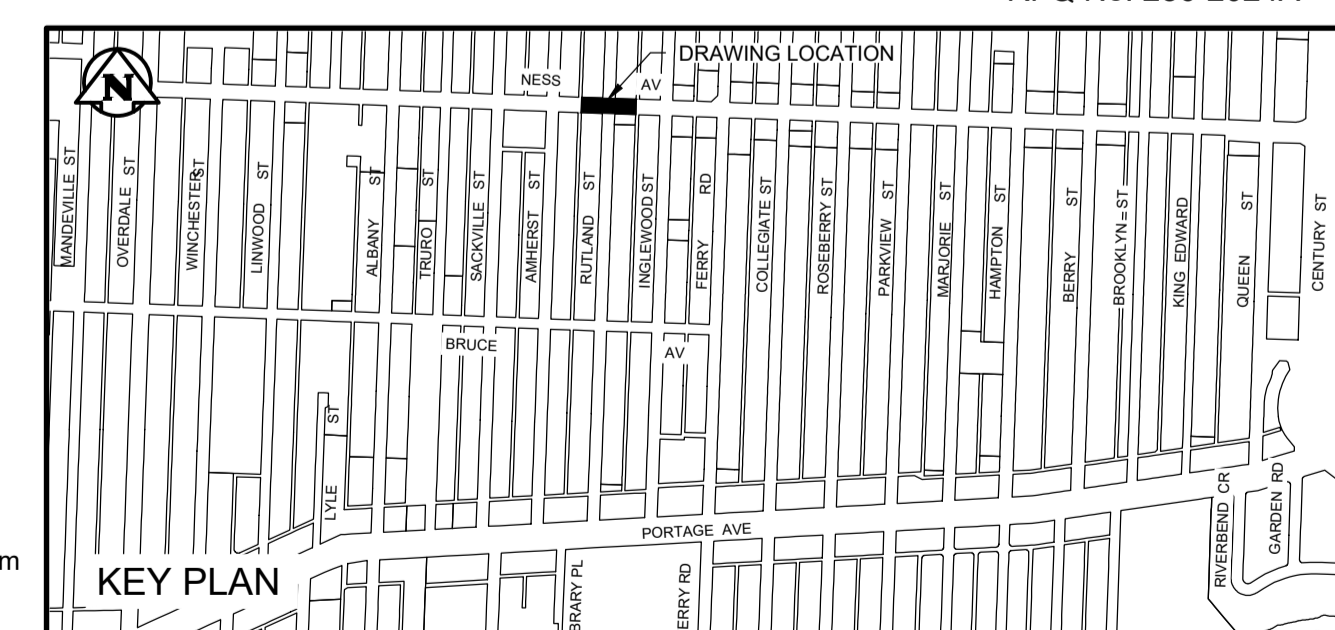
- CONSTRUCTION NOTES:**
1. LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  2. SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  3. INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.

- GENERAL NOTES:**
1. CHAINAGE IS ALONG SOUTH LIMIT OF NESS AVE.
  2. STATION 0+100 = WEST LIMIT OF RUTLAND ST AND SOUTH LIMIT OF NESS AVENUE.
  3. SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.



**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	150 WM	BEND	150 WM	ANCHOR		
400 FM	FEEDERMAIN	400 FM	400 FM	TEE	400 FM	TREE		
300 LDS	LAND DRAINAGE SEWER	300 LDS	300 LDS	CURB STOP	300 LDS	LEGAL DIMENSION		
250 WWS	WASTEWATER SEWER	250 WWS	250 WWS	PLUG	250 WWS	SURVEY BAR		
300 CS	COMBINED SEWER	300 CS	300 CS	MANHOLE	300 CS	GAS		
200 FCM	FORCEMAIN	200 FCM	200 FCM	CATCHBASIN	200 FCM	HYDRO		
	JUNCTIONS			CURB INLET		MTS		
	HYDRANT			ADDRESS		CURB		
	VALVE			HYDRO POLE		SIDEWALK		
	REDUCER			LIGHT STANDARD		TEST HOLE LOCATION		

**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.

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.08	KJM

**TETRA TECH**

DESIGNED BY: ML  
CHECKED BY: TRC

DRAWN BY: NL  
APPROVED BY: GS

HOR. SCALE: 1:250  
VERTICAL: 1:50

DATE: 2024-05-29

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

CONSULTANT DRAWING NO. 1000120300-DWG-C0622

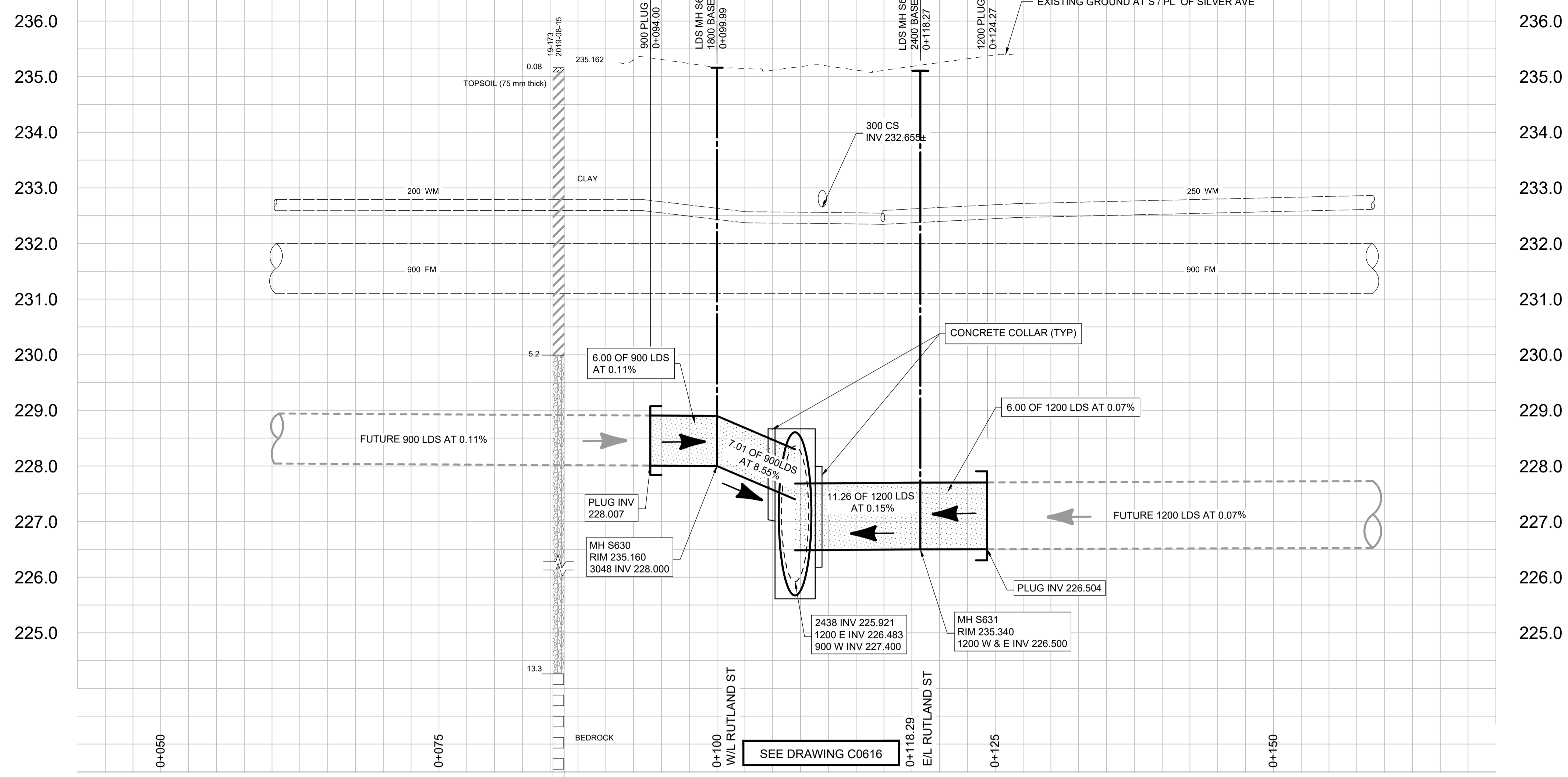
**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

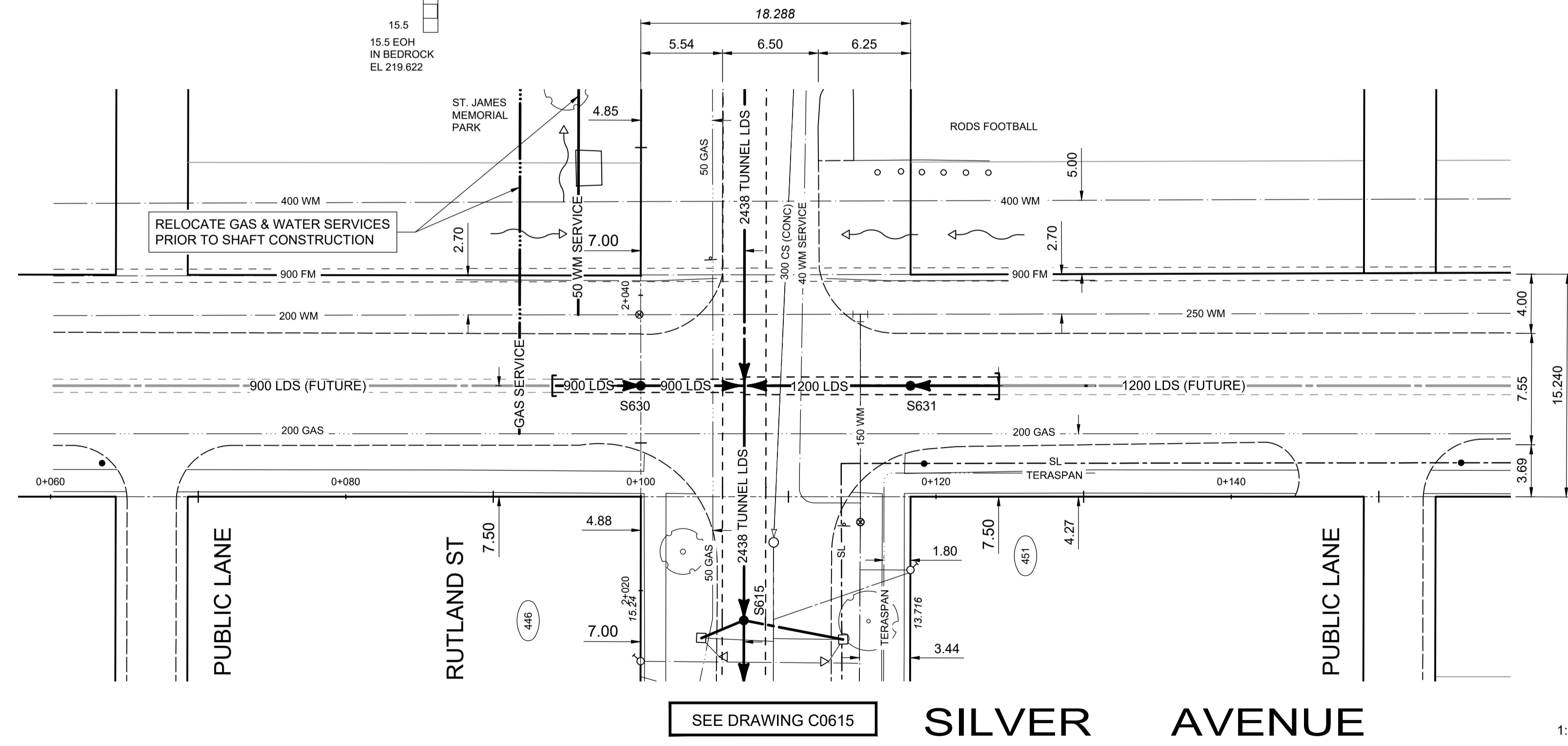
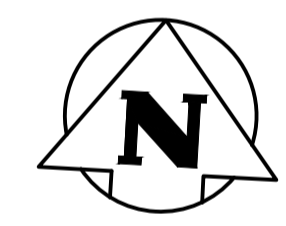
NESS AVENUE 1050 CS

CITY DRAWING NUMBER LD-13038  
SHEET 22 OF 24  
C0622

X:\A-G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 0012110001203.00 - FERRY ROAD/CONTRACT 6/CAD/FR CONT 6 PRODUCTION DRAWINGS/C0623 1000120300-DWG-C0623 SILVER AVE.DWG 2024-05-28 10:35 AM

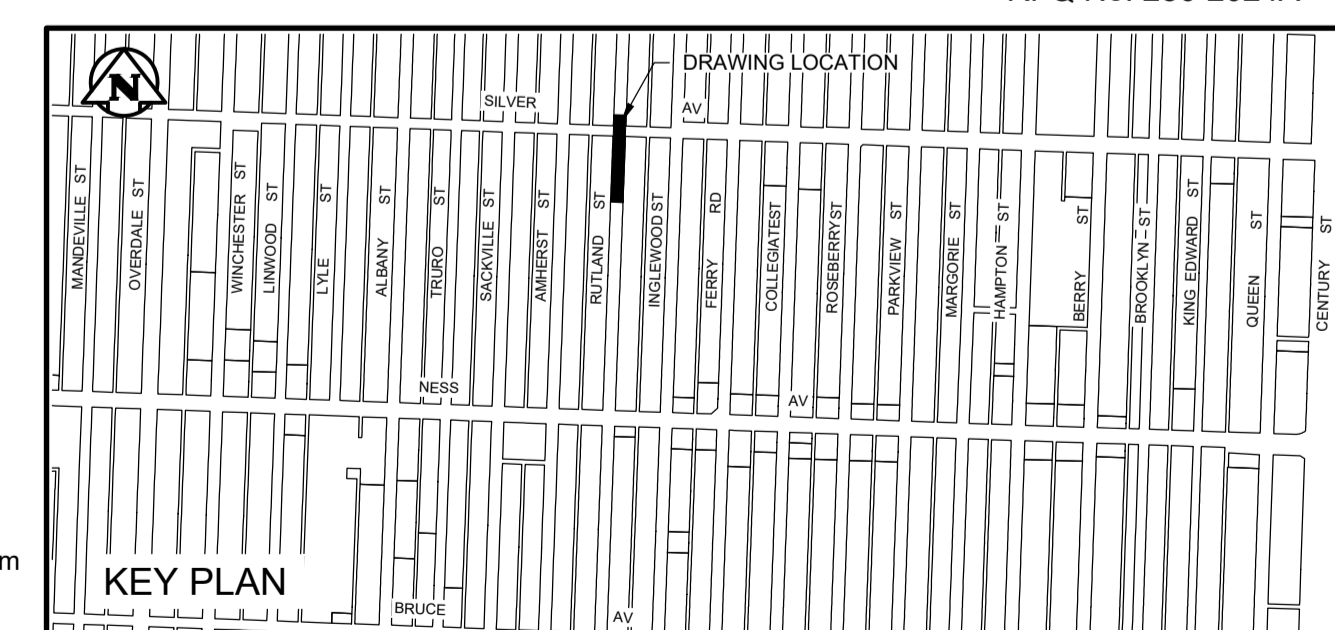


- CONSTRUCTION NOTES:**
- LOCATION OF ALL SEWER AND WATER LINES TO BE CONFIRMED IN THE FIELD.
  - SEWER AND WATER SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
  - INSTALL NEW SEWER AND CATCHBASIN LEADS BY TRENCHLESS METHODS, UNLESS NOTED OTHERWISE.
- GENERAL NOTES:**
- CHAINAGE IS ALONG SOUTH LIMIT OF SILVER AVE.
  - STATION 0+100 = WEST LIMIT OF RUTLAND ST AND SOUTH LIMIT OF SILVER AVENUE.
  - SEE SPECIFICATIONS FOR DETAILED TEST HOLE INFORMATION.



**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
Tetra Tech Canada Inc.  
No. 6499

EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATERMAIN	150 WM	ANCHOR	ANCHOR	ANCHOR	LOCATION APPROVED UNDERGROUND STRUCTURES		
400 FM	FEEDERMAIN	400 FM	TREE	TREE	TREE			
300 LDS	LAND DRAINAGE SEWER	300 LDS	LEGAL DIMENSION	LEGAL DIMENSION	LEGAL DIMENSION			
250 WWS	WASTEWATER SEWER	250 WWS	SURVEY BAR	SURVEY BAR	SURVEY BAR			
300 CS	COMBINED SEWER	300 CS	GAS	GAS	GAS			
200 FCM	FORCEMAIN	200 FCM	HYDRO	HYDRO	HYDRO			
	JUNCTIONS		MTS	MTS	MTS			
	HYDRANT		CURB	CURB	CURB			
	VALVE		SIDEWALK	SIDEWALK	SIDEWALK			
	REDUCER		SHAFT LOCATION	SHAFT LOCATION	SHAFT LOCATION			

NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

**TETRA TECH**

DESIGNED BY: KJM  
CHECKED BY: TRC  
DRAWN BY: NL  
APPROVED BY: IJM  
HOR. SCALE: 1:250  
VERTICAL: 1:50  
DATE: 2024-05-28

**PRELIMINARY DRAWING**

NOT TO BE USED FOR CONSTRUCTION

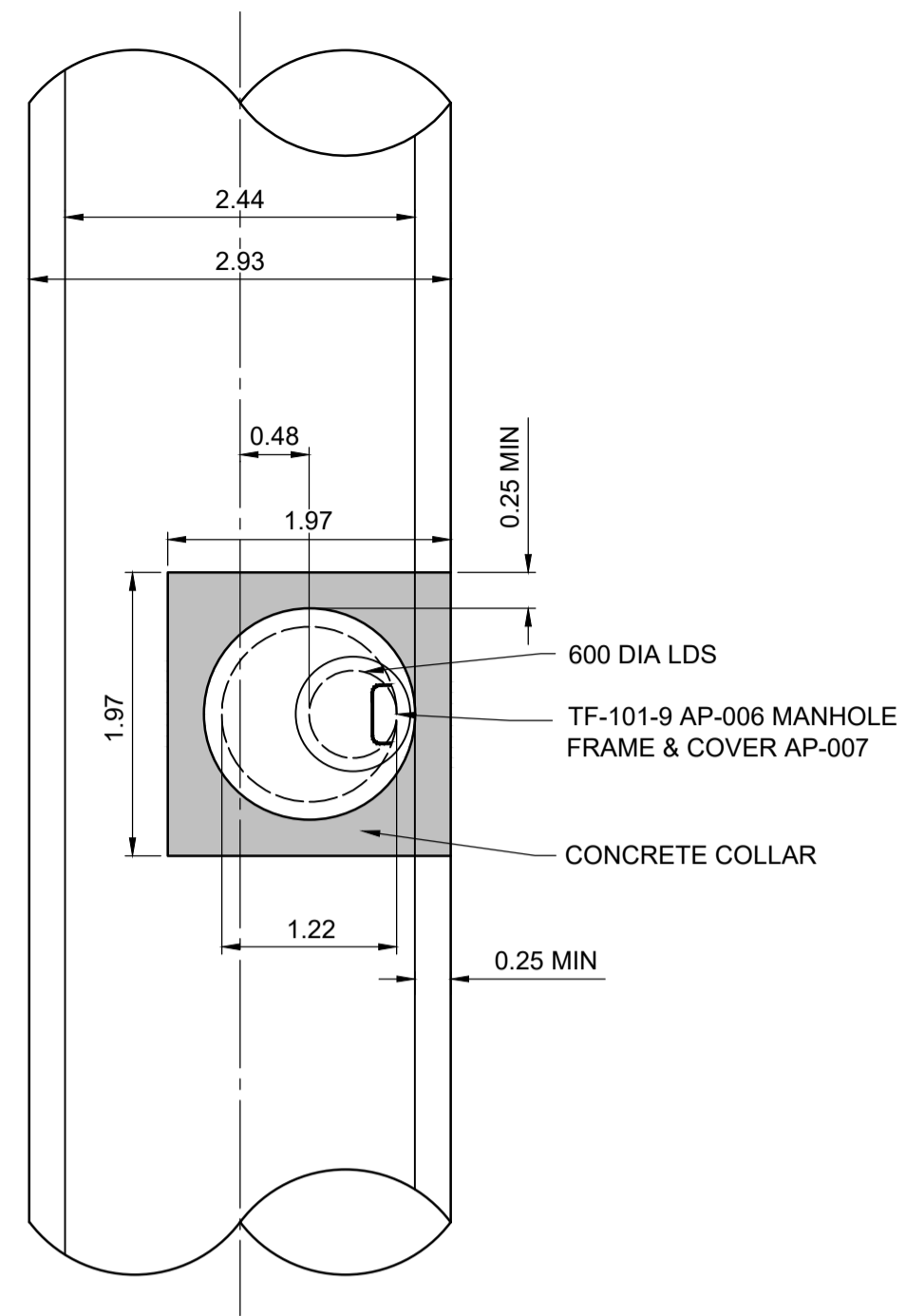
CONSULTANT DRAWING NO. 1000120300-DWG-C0623

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

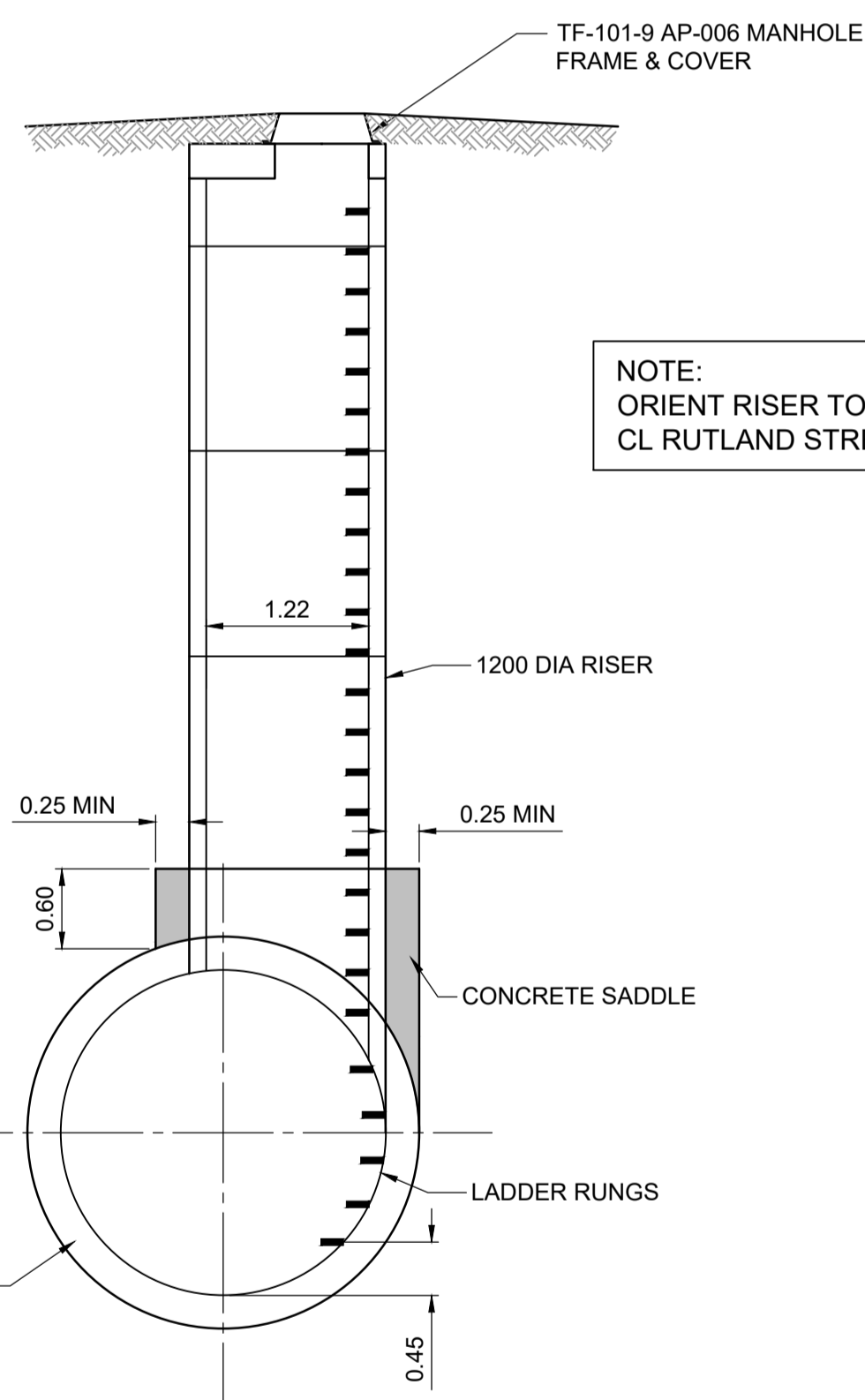
FERRY ROAD AND RIVERBEND COMBINED SEWER RELIEF WORKS CONTRACT 6

SILVER AVENUE  
1200 LDS AND 900 LDS

CITY DRAWING NUMBER LD-13039  
SHEET 23 OF 24  
C0623



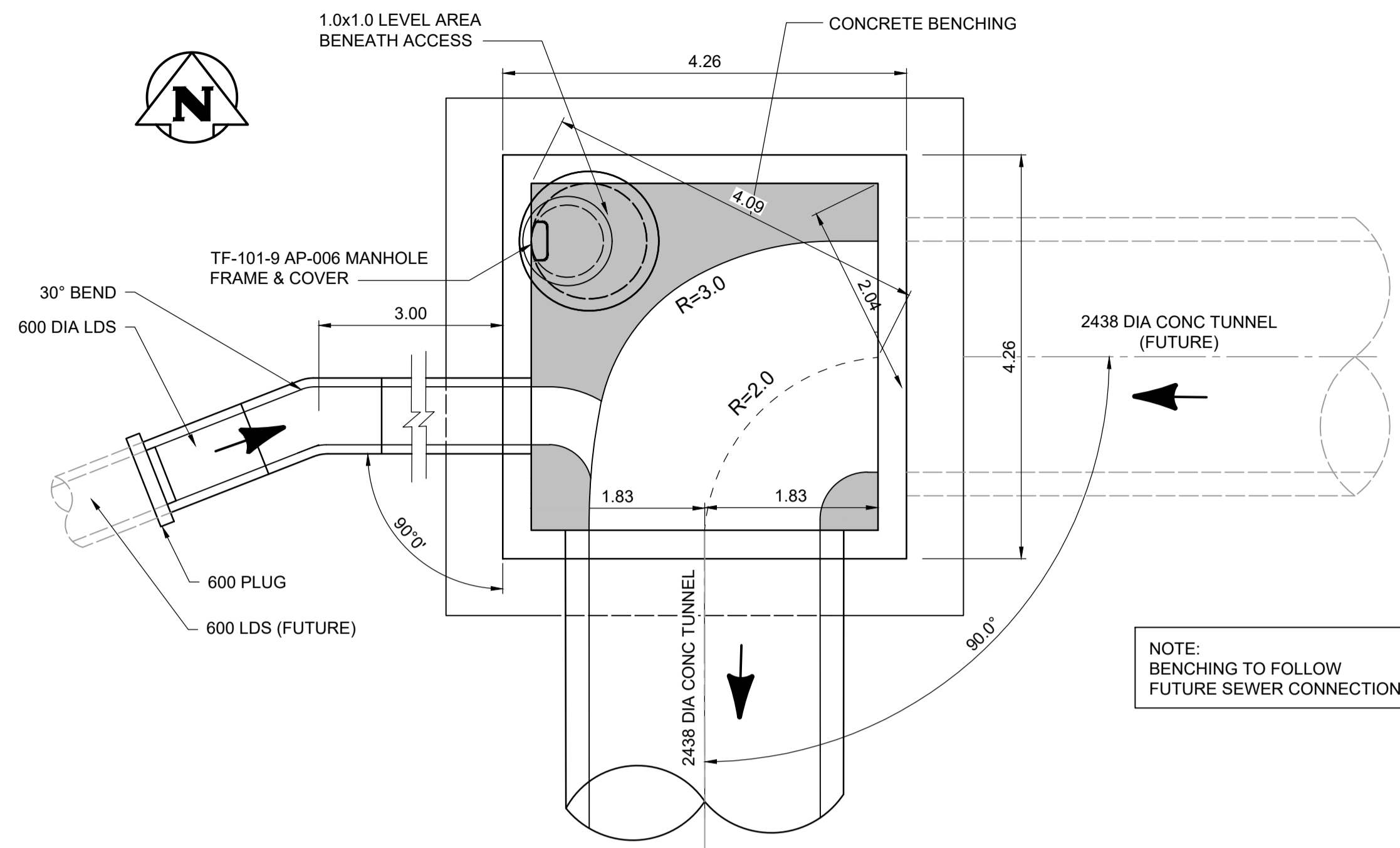
PLAN



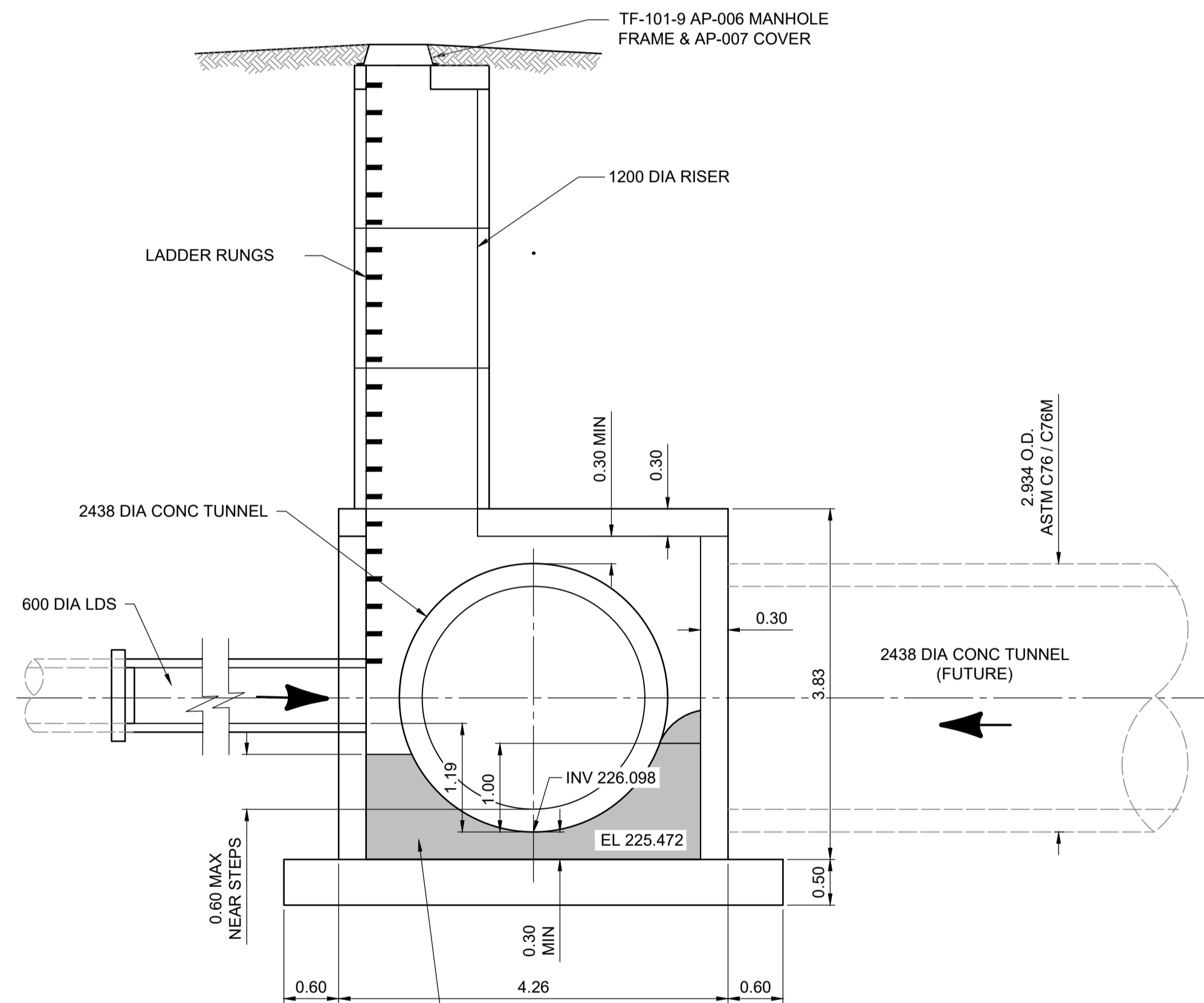
SECTION

NOTE:  
ORIENT RISER TOWARDS  
CL RUTLAND STREET

1 TYPICAL SADDLE MANHOLE DETAIL  
1:50

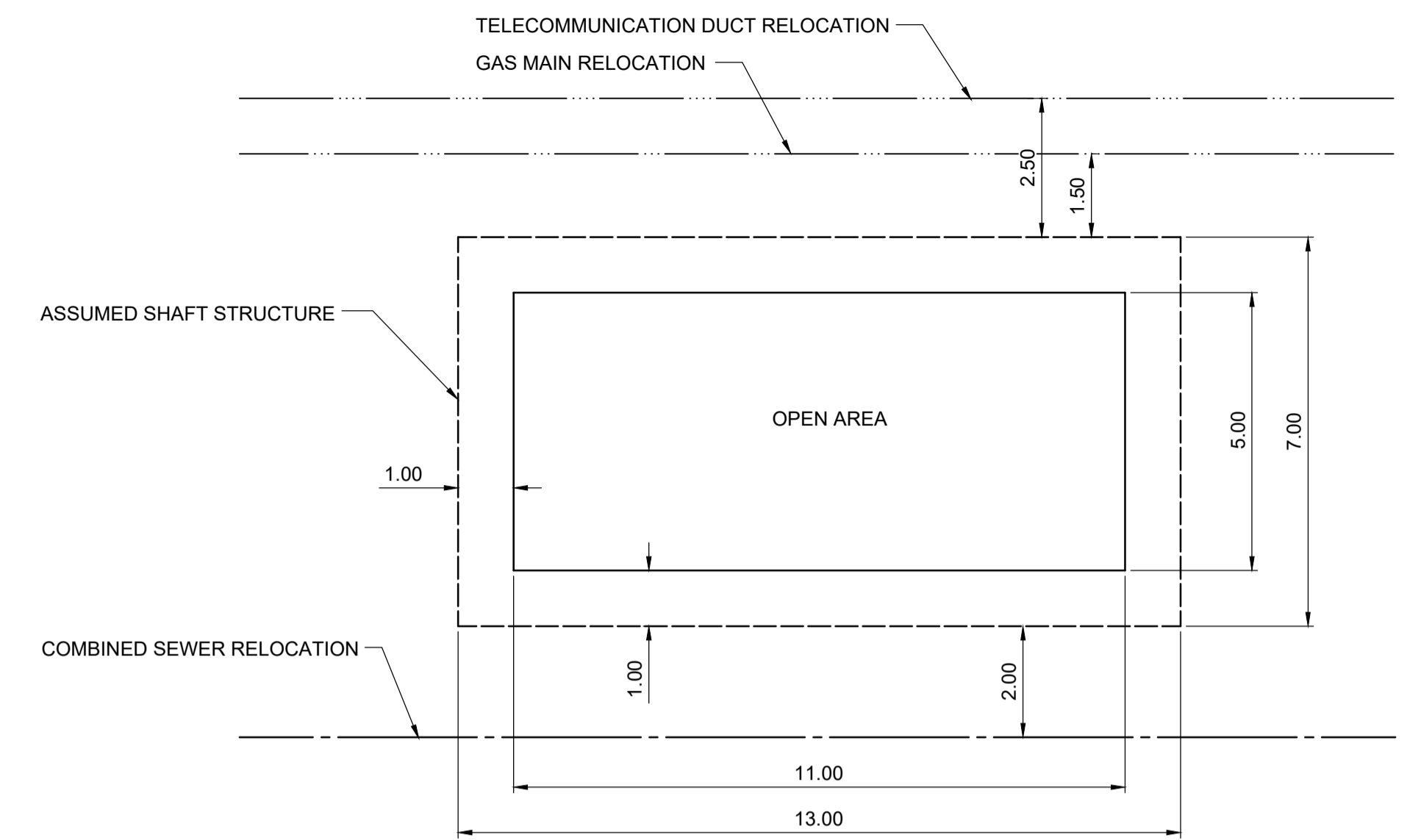


PLAN

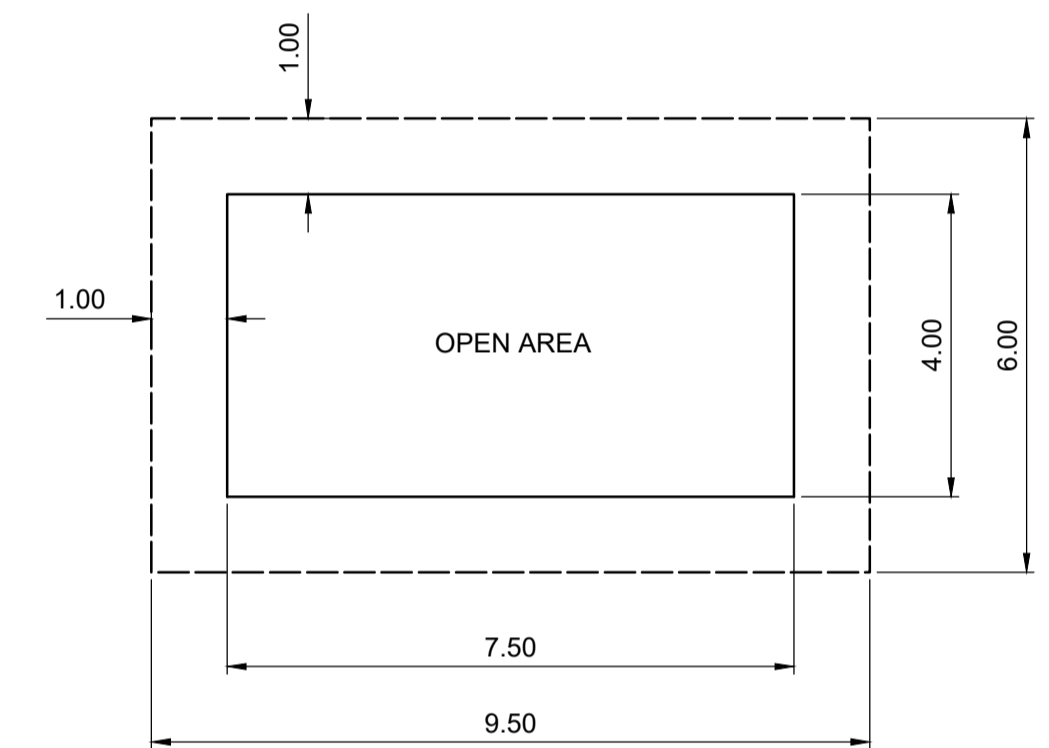


SECTION

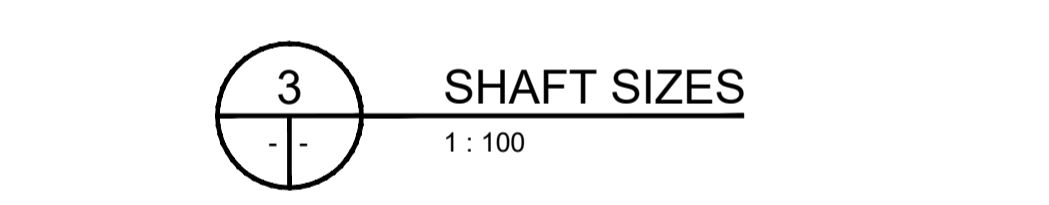
2 CHAMBER MANHOLE DETAIL  
AT ST MATTHEWS AVE EXTENSION  
1:50



RECOMMENDED MINIMUM SIZE FOR  
LAUNCH SHAFT



RECOMMENDED MINIMUM SIZE  
FOR RECEPTION SHAFT



3 SHAFT SIZES  
1:100

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

RFQ No. 286-2024A



NO.	REVISIONS	DATE	BY
D	ISSUED FOR RFQ 286-2024A	24.05.29	KJM
C	PIPE SIZE CHANGE	24.02.15	KJM
B	GENERAL REVISION	22.02.15	KJM
A	DRAFT PRELIMINARY DESIGN	21.10.22	KJM

B.M. CITY OF WINNIPEG 38-069 ELEV. 233.792m		<b>TETRA TECH</b>	
DESIGNED BY: ML	CHECKED BY:	DRAWN BY: GMD	APPROVED BY:
HOR. SCALE: AS NOTED	RELEASED FOR CONSTRUCTION	VERTICAL: AS NOTED	RELEASED FOR CONSTRUCTION

PRELIMINARY DRAWING  
NOT TO BE USED FOR CONSTRUCTION  
CONSULTANT DRAWING NO. 1000120300-DWG-C0624

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

FERRY ROAD AND RIVERBEND  
COMBINED SEWER RELIEF WORKS  
CONTRACT 6

MANHOLE AND SHAFT DETAILS

CITY DRAWING NUMBER LD-13040  
SHEET 24 OF 24  
C0624

X:\A\G\CITY OF WINNIPEG - WATER & WASTE DEPARTMENT - 00121000120300 - FERRY ROAD/CONTRACT 6/CAD/FR CONT 6/PRODUCTION DRAWINGS/C0624\_1000120300-DWG-C0624.MANHOLE DETAILS.DWG 2024-05-29 2:28 PM