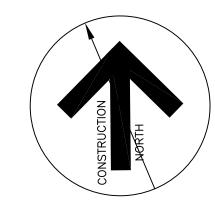
## **LEGEND**

<del></del>			
ST	EXISTING STORM SEWER	AD	AREA DRAIN
		СВ	CATCH BASIN
ST	PROPOSED STORM SEWER	СОМВ	COMBINED
S	EXISTING SANITARY SEWER	DAD	DOUBLE AREA DRAIN
s	PROPOSED SANITARY SEWER	EX.	EXISTING
•	THE SELD SAMMAN SEMEN	FH	FIRE HYDRANT
W	EXISTING WATERMAIN	GW	GUY WIRE
w	PROPOSED WATERMAIN	HP	HYDRO POLE
	THE GOLD WILLIAM	МН	MANHOLE
G	EXISTING GAS MAIN	PROP	PROPOSED

VALVE AND BOX

WATER METER

BACK FLOW PREVENTER



## **GENERAL SERVICING NOTES:**

1. ALL SERVICES TO BE INSTALLED AS PER CITY OF HAMILTON CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL (LATEST EDITION) AND MINISTRY OF THE ENVIRONMENT GUIDELINES (LATEST EDITION).

STORM

VC VALVE CHAMBER

TRENCH DRAIN

WATER VALVE

- 2. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER SERVICES AND SEWERS SHALL BE 2.5m MEASURED FROM THE CLOSEST PIPE EDGE TO CLOSEST PIPE EDGE. VERTICAL SEPARATION BETWEEN WATERMAINS AND SEWERS WHICH CROSS MUST BE 0.5m BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER, WITH THE LENGTH OF THE WATER PIPE BEING CENTRED AT THE POINT OF CROSSING SUCH THAT JOINTS IN THE WATERMAIN WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER, CROSSING PERPENDICULAR IF POSSIBLE.
- 3. ALL WATER SERVICES TO BE INSTALLED WITH A MINIMUM OF 1.6m COVER. SEWERS TO BE INSTALLED WITH A MINIMUM COVER OF 2.20m AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE LEVEL OF THE MAIN SEWER. ON PRIVATE PROPERTY THE MINIMUM COVER IS TO BE NO LESS THAN 1.2m.
- 4. RESTORATION OF ROAD OVER UTILITY CUTS IN HAMILTON TO BE AS PER STANDARD DRAWINGS RD-100.01 AND RD-100.02, WITH GRANULAR
- 5. APPROVAL OF THIS DRAWING IS FOR MATERIAL ACCEPTABILITY AND COMPLIANCE WITH MUNICIPAL AND PROVINCIAL SPECIFICATIONS AND STANDARDS ONLY. APPROVAL AND INSPECTION BY THE CITY OF THE WORKS DOES NOT CERTIFY THE LINE AND GRADE OF THE WORKS AND IT IS THE OWNER'S RESPONSIBILITY TO HAVE THEIR ENGINEER CERTIFY THIS ACCORDINGLY.
- 6. ALL PROPOSED SERVICE ARE TO PASS BELOW EX. WATERMAINS, BY A MIN. OF 250mm, BASED ON THE TOP OF THE EX. WATERMAIN BEING 1.6m BELOW THE CENTERLINE OF ROAD.
- 7. ALL BUILDING SERVICE SIZES ARE TO BE CONFIRMED BY THE MECHANICAL ENGINEER AT BUILDING DESIGN PHASE.

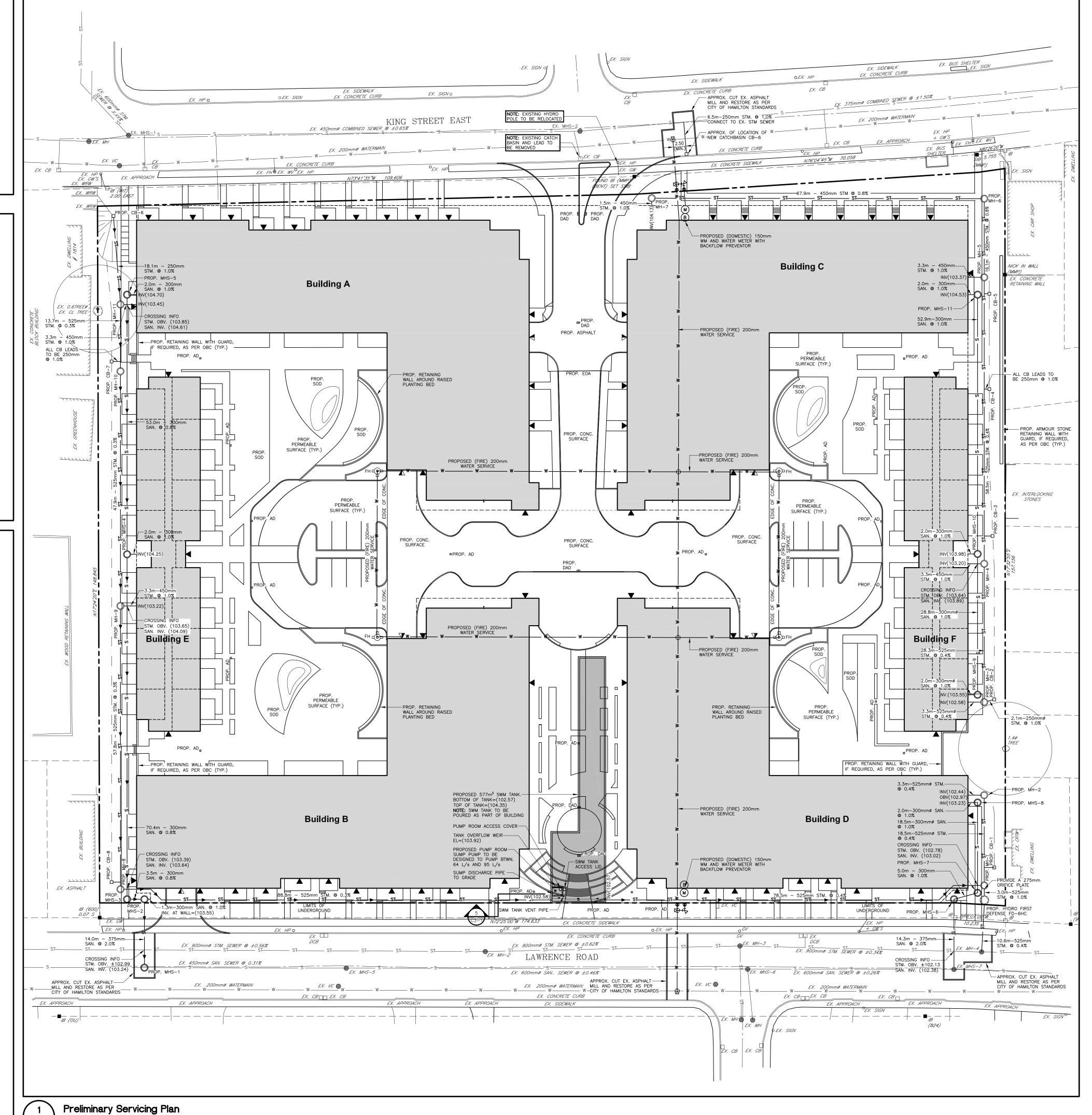
## BEFORE STARTING WORK

THE CONTRACTOR SHALL NOTIFY THE CITY OF HAMILTON AND LANHACK CONSULTANTS INC. AT LEAST 48 HOURS PRIOR TO COMMENCING

- 2. THE POSITION OF THE POLE LINES, CONDUITS, WATERMAINS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.
- 3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL BENCHMARKS, ELEVATIONS, DIMENSIONS, AND GRADES MUST BE CHECKED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED TO THE ENGINEER.
- 4. ALL EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE LOCATED, MARKED AND PROTECTED. ANY UTILITIES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER, AT THE
- 5. AT LEAST TWO DIFFERENT BENCHMARKS MUST BE REFERRED TO AT ALL TIMES.

	STANDARD	-10	. INVERTS					
NAME	OPSD	T/G	North	South	East	West	COMMENTS	
EX MH-4	-	EX	102.11	-	±101.21	±101.21	Drop Structure	
FD-6HC	-	105.75	102.17	102.15	•		Hydro First Defence HC OGS	
MH-1	701.010	105.80	102.30	102.20	ı	102.25		
MH-2	701.010	105.88		102.37		102.42		
MH-3	701.010	106.84	102.98	•	103.20	102.60		
MH-4	701.010	107.78	103.12	103.10	•	103.18		
MH-5	701.010	108.32	103.34	103.26	ı	103.34		
MH-6	701.010	107.90	ı	103.47		103.52		
MH-7	701.010	106.01	-	104.11	104.06	-		
CB-1	705.010	105.45		-	-	103.95	w/ Beehive Grate	
CB-2	705.010	106.80		-	-	103.22	w/ Beehive Grate	
CB-3	705.010	107.56	-	-	-	106.06	w/ Beehive Grate	
CB-4	705.010	107.56	-	-	-	106.06	w/ Beehive Grate	
CB-5	705.010	107.70	-	-	-	106.20	w/ Beehive Grate	
MH-8	701.010	106.40	102.91	•	102.87	103.45		
MH-9	701.010	108.11	103.12	103.10	103.18	-		
MH-10	701.010	106.98	103.29	103.27	-	-		
MH-11	701.010	107.18	103.61	103.33	103.41	-		
CB-6	705.010	105.20	-	103.79	-	-	w/ Beehive Grate	
CB-7	705.010	106.85	-	-	105.35	-	w/ Beehive Grate	
CB-8	705.010	106.20	-	_	1	104.70	w/ Beehive Grate	

				MITAKI 31	TRUCTURE		
NAME	STANDARD OPSD	T/G	INVERTS			COMMENTS	
			North	South	East	West	COMMENTS
MHS-1	701.010	MATCH	103.17	•	±102.45	±102.45	Drop Structure
MHS-2	701.010	106.34	-	103.45	103.53	103.53	
MHS-3	701.010	106.32	103.61	-	103.56	-	
MHS-4	701.010	108.00	104.20	104.18	104.23	-	
MHS-5	701.010	107.20	-	104.63	104.68	-	
					·		
EX MHS-7	-	EX	102.31	-	±101.83	±101.83	
MHS-6	701.010	105.70	102.90	102.60	-	-	
MHS-7	701.010	105.80	103.00	1	-	102.95	
MHS-8	701.010	105.97	-	103.19	-	103.21	
MHS-9	701.010	106.86	103.62	-	-	103.57	
MHS-10	701.010	107.75	103.93	103.91	-	103.96	
MHS-11	701.010	108.27	-	104.46	-	104.51	



SITE

LAWRENCE RD.

LAWRENCE R

Project Site and report any discrepancies before proceeding with the Work.

This drawing is a part of the Contract Documents and is to be read in conjunction with all other Contract Documents.

COPYRIGHT — LANHACK Consultants Inc.

SOURCE
EXISTING BOUNDARY SURVEY AND TOPOGRAPHICAL
INFORMATION OBTAINED FROM A.T. McLAREN LTD., DWG No.
28975, DATED AUGUST 20, 2020.

All rights reserved.

THE POSITION OF THE POLE LINES, CONDUITS, WATERMAINS SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH

Mere shown, the accuracy of the position of such utilities and structures is not guaranteed.

Revision Record

No. Description

Date (m/d/y)

A ISSUED AS PER CITY COMMENTS

No. Description

Date (m/d/y)

Date (m/d/y)







NHDGI Pulse Residential Development

> 1842 KING STREET EAST HAMILTON, ON

Date: MARCH 2021

Drawn By: GRW

Chkd By: SMP

Scale: 1 : 400

Preliminary Servicing Plan

Project No.:

20064A

Drawing No.:

C2-1

Rev.:

A

Plot Date: 02/11/22

M:\2020\20064A - 1842 King St. NHDGI and US\Civil\
20064A\_C01 - Grading and Servicing Plan.dwg

C2-1