LEGEND

XXX.XX	EXISTING GRADE	AD	AREA DRAIN
(XXX.XX)	PROPOSED GRADE	CB	CATCH BASIN
EX(XXX.XX)	PROPOSED GRADE = EXISTING GRADE	DAD	DOUBLE AREA DRAIN
(XXX.XX)SW	PROPOSED SWALE GRADE	DC	DROP CURB
▲	MAN DOOR ENTRANCE	DD	DRAINAGE DIVIDE
▲	OVERHEAD DOOR ENTRANCE (TRUCK LOADING)	EOA	EDGE OF ASPHALT
	PROPOSED SHEET FLOW DIRECTION	EX.	EXISTING
	DIRECTION OF OVERLAND DRAINAGE	FC	FLUSH CURB
	PROPOSED HEAVY DUTY SILT FENCE AS PER OPSD 219.130	FH	FIRE HYDRANT
		GW	GUY WIRE
		HP	HYDRO POLE
	PROPOSED SILT SAC AS PER **DETAIL 2/C1-1**	MH	MANHOLE
		TD	TRENCH DRAIN
	PROPOSED FIRE HYDRANT	#/#	NUMBER OF RISERS

CONSTRUCTION NORTH

GENERAL GRADING NOTES:

1. GRADING ON ADJACENT LANDS NOT OWNED BY THE DEVELOPER: THE DEVELOPER IS REQUIRED TO OBTAIN PERMISSION TO CARRY OUT THE GRADING ON THE ADJACENT LANDS. IF SUCH PERMISSION TO GRADE ON THE LANDS ADJACENT TO THE SITE IS NOT OBTAINED BY THE DEVELOPER, OR IF PERMISSION IN WITHDRAWN PRIOR TO CARRYING OUT THE GRADING, THE DEVELOPER IS REQUIRED TO REVISE THE GRADING PLAN, AS REQUIRED, AND RESUBMIT THE PLAN TO THE CITY FOR APPROVAL.
2. ANY CHANGES IN GRADES AND/OR CATCH BASINS, REQUIRES THE APPROVAL OF THE DIRECTOR DEVELOPMENT DIVISION, PLANNING AND DEVELOPMENT DEPARTMENT FOR THE CITY OF HAMILTON.
3. ALL DRIVEWAYS FROM PROPERTY LINES FOR THE FIRST 7.5m SHALL BE WITHIN 5% MAXIMUM GRADE, THEREAFTER, ALL DRIVEWAYS SHALL BE WITHIN 10% MAXIMUM GRADES AS PER CITY STANDARDS.
4. THE APPROVAL OF THIS GRADING PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING:
   - ROAD CUT PERMITS
   - SERVICING PERMITS
   - APPROACH APPROVAL PERMITS
   - RELOCATION SERVICES
   - COMMITTEE OF ADJUSTMENT
   - ENCROACHMENT AGREEMENTS (IF REQUIRED)

BEFORE STARTING WORK

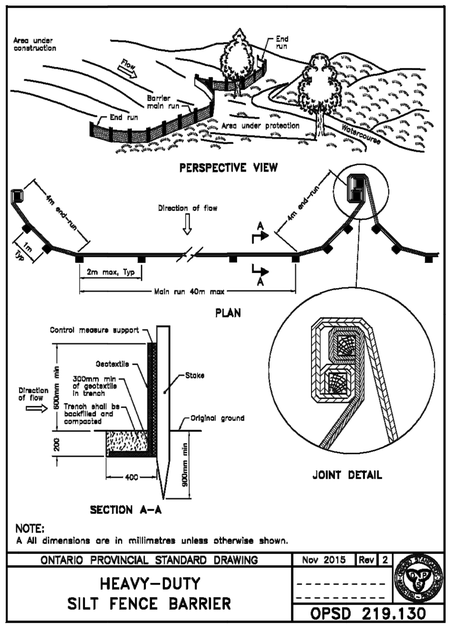
1. THE CONTRACTOR SHALL NOTIFY THE CITY OF HAMILTON AND LANHACK CONSULTANTS INC. AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
2. THE POSITION OF THE POLE LINES, CONDUITS, WATERMAINS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, 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 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 CONTRACTOR'S EXPENSE.
5. AT LEAST TWO DIFFERENT BENCHMARKS MUST BE REFERRED TO AT ALL TIMES.

SILTATION AND EROSION CONTROL

1. SILTATION CONTROL BARRIERS SHALL BE PLACED AS DETAILED.
2. ALL SILTATION CONTROL MEASURES SHALL BE CLEANED AND MAINTAINED AFTER EACH RAINFALL AS DIRECTED AND TO THE SATISFACTION OF THE CITY OF HAMILTON.
3. ADDITIONAL SILT CONTROL LOCATIONS MAY BE REQUIRED AS DETERMINED BY THE CITY OF HAMILTON.

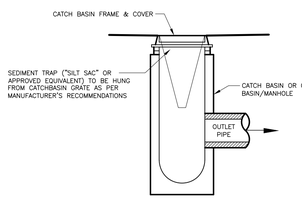
GENERAL EARTHWORKS NOTES:

1. THE SUB-GRADE SOILS EXPOSED AFTER EXCAVATION SHALL BE INSPECTED AND CERTIFIED BY A QUALIFIED REGISTERED PROFESSIONAL SOILS ENGINEER AND A COPY OF THE REPORT SHALL BE FORWARDED TO THE CITY OF HAMILTON BUILDING DIVISION. WHERE THE FOOTING WILL BE SITUATED ON FILL MATERIAL, THE FOOTINGS SHALL BE DESIGNED AND APPROVED BY QUALIFIED REGISTERED PROFESSIONAL ENGINEER.
2. ALL FILL PLACED ON THE SITE SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DRY DENSITY. A SUFFICIENT NUMBER OF TESTS SHALL BE TAKEN AT VARIOUS LEVELS SATISFACTORY TO THE DIRECTOR OF ENGINEERING. TEST RESULTS SHALL BE SENT TO THE CITY WITH A LETTER, SIGNED AND STAMPED BY THE SOILS ENGINEER, STATING THAT A SUFFICIENT NUMBER OF TESTS HAVE BEEN TAKEN AND THE MINIMUM DEGREE OF COMPACTION HAS BEEN REACHED.



NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2
HEAVY-DUTY SILT FENCE BARRIER		OPSD 219.130



PRIOR TO CONSTRUCTION

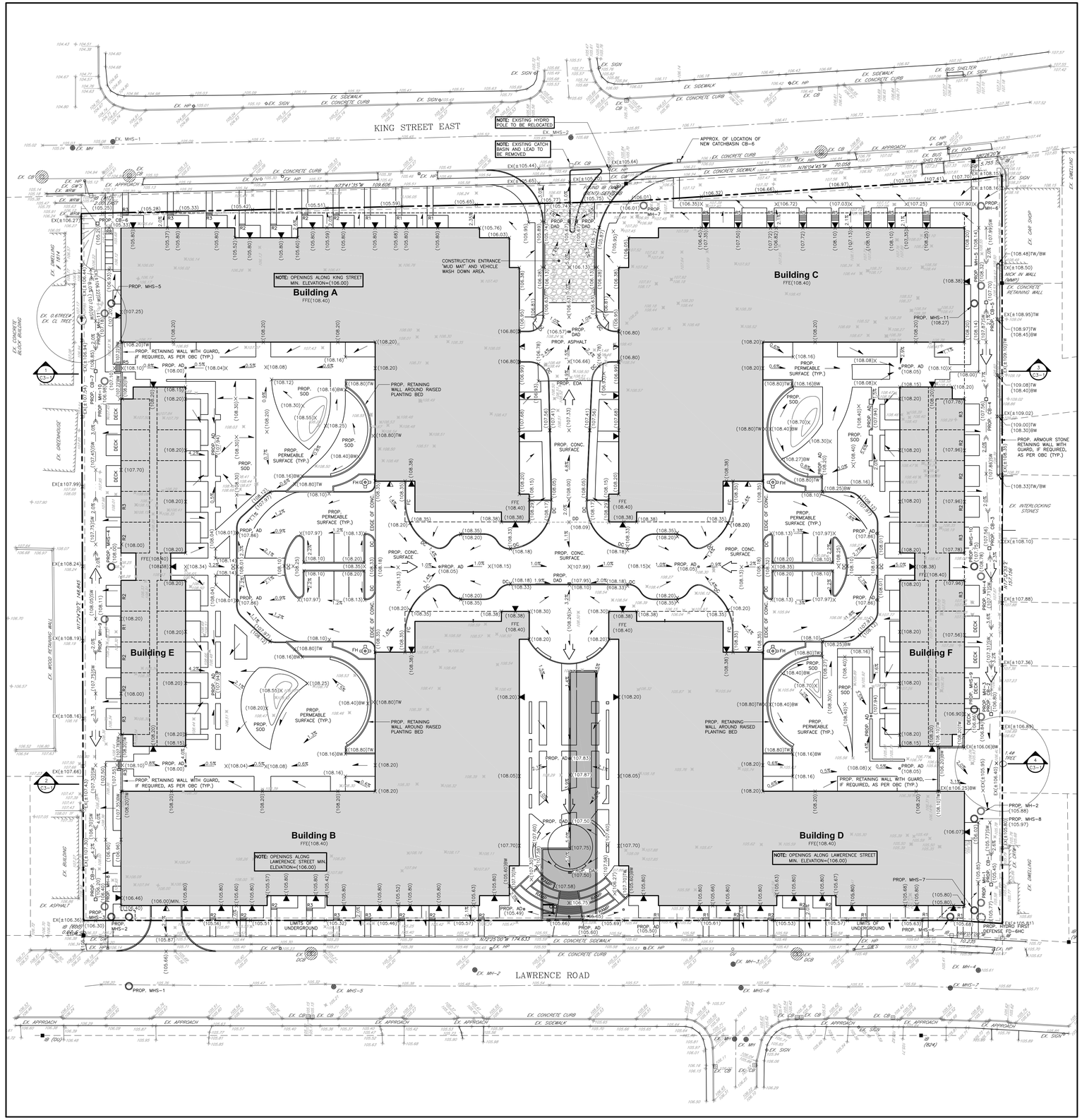
NOTE: a) CONTRACTOR TO INSTALL SILT SAC'S ON ALL EX. CB'S WHERE SHOWN. SILT SAC'S ON PROPOSED INFRASTRUCTURE TO BE INSTALLED IMMEDIATELY WITH INSTALLATION OF FRAME AND GRATE.

b) SILT SAC'S SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND EMPTIED FOLLOWING EVERY RAINFALL EVENT, IF REQ'D.

c) CONTRACTOR SHALL REMOVE SILT SAC'S FOLLOWING PLACEMENT OF BASE ASPHALT ONLY.

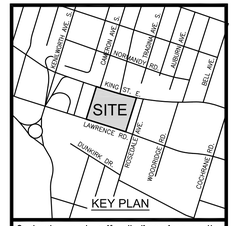
2 C1-1 Silt Sace Sediment Control Detail

N.T.S.



1 C1-1 Preliminary Grading Plan

1 : 400



Contractor must verify all dimensions on the 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.
All rights reserved.

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

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.

Revision Record

No.	Description	Date (m/d/y)
A	ISSUED AS PER CITY COMMENTS	02/11/22

No.	Description	Date (m/d/y)

Issue Record

LICENSED PROFESSIONAL ENGINEER
J. D. LAMARRE
FEB 2022
PROVINCE OF ONTARIO

NOT FOR CONSTRUCTION

LANHACK Consultants Inc.
Consulting Engineers
1709 Upper James Street
Hamilton, ON L9B 1K7
Tel: (905) 777-1454
Fax: (905) 336-8142

NHDGI Pulse Residential Development

1842 KING STREET EAST
HAMILTON, ON

Date:	MARCH 2021
Drawn By:	GRW
Chkd By:	SMP
Scale:	AS NOTED

Preliminary Grading, Erosion and Sediment Control Plan

Project No.:	Drawing No.:	Rev.:
20064A	C1-1	A

Plot Date: 02/11/22
M:\2020\20064A – 1842 King St, NHDGI and US\CIVIL\20064A_C01 – Grading and Servicing Plan.dwg