LEGEND

XXX.XX	EXISTING GRADE
(XXX.XX)	PROPOSED GRADE
EX(XXX.XX)	PROPOSED GRADE = EXISTING GRADE
FFE=(XXX.XX)	PROPOSED FINISHED FLOOR ELEVATION
(XXX.XX)BW	PROPOSED BOTTOM OF WALL ELEVATION
(XXX.XX)TW	PROPOSED TOP OF WALL ELEVATION
(XXX.XX)TW/BW	PROPOSED TOP OF WALL=BOTTOM OF WALL
(XXX.XX)SW	PROPOSED SWALE ELEVATION
	PROPOSED SHEET FLOW DIRECTION
	EXISTING SHEET FLOW DIRECTION
	DIRECTION OF OVERLAND DRAINAGE
	ENTRANCE
	OVERHEAD DOOR ENTRANCE
R#	NUMBER OF RISERS
AD	AREA DRAIN
APP	APPROACH
CB	CATCH BASIN
CBMH	CATCH BASIN MANHOLE
CCRB	CONCRETE CURB
DAD	DOUBLE AREA DRAIN
DCB	DOUBLE CATCH BASIN
DCBMH	DOUBLE CATCH BASIN MANHOLE

EX	EXISTING
EB	ELECTRICAL BOX
FH	FIRE HYDRANT
HP	HYDRO POLE
HH	HAND HOLE
HMH	HYDRO MANHOLE
LS	LIGHT STANDARD
LP	LIGHT POST
LA	LANDSCAPING AREA
MH	MANHOLE
MW	MONITORING WELL
S/W	SIDEWALK
T/G	TOP OF GRATE
TL	TRAFFIC LIGHT
VC	VALVE CHAMBER

GENERAL GRADING NOTES:

1. ANY CHANGES IN GRADES AND/OR CATCH BASINS, REQUIRES THE APPROVAL OF THE CITY'S MANAGER OF DEVELOPMENT ENGINEERING.
2. 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
   - APPROACH APPROVAL PERMITS
   - COMMITTEE OF ADJUSTMENT
   - SEWER PERMITS
   - RELOCATION SERVICES
   - ENCROACHMENT AGREEMENTS (IF REQUIRED)
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.
4. 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 IF SUCH PERMISSION TO GRADE ON THE LANDS ADJACENT TO THE SITE IS NOT OBTAINED BY THE DEVELOPER, OR IF PERMISSION IN WITHDRAWN PRIOR TO CARRYING OUT THE GRADING, THE DEVELOPER IS REQUIRED TO REVISE THE GRADING PLAN, AS REQUIRED, AND RESUBMIT THE PLAN TO THE CITY FOR APPROVAL.
5. ALL OTHER GENERAL GRADING DETAILS AND PROCEDURES ARE TO FOLLOW THE CITY OF HAMILTON DESIGN GUIDELINES.
6. ALL PLANS ARE TO BE READ IN CONJUNCTION WITH THE CITY OF HAMILTON SPECIFICATIONS AND STANDARD DRAWINGS.

BEFORE STARTING WORK

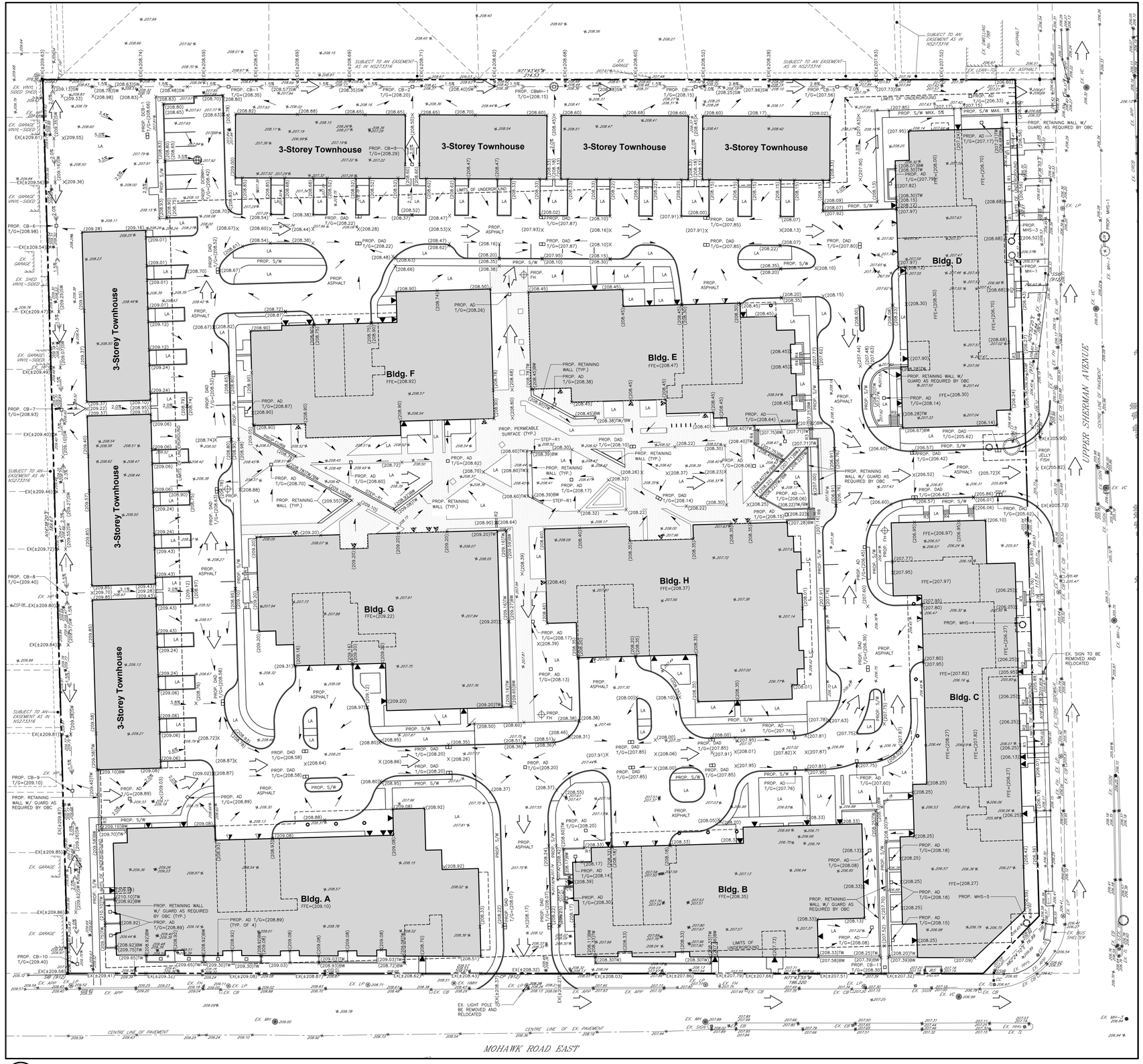
1. THE CONTRACTOR SHALL NOTIFY THE CITY OF HAMILTON AND LANHACK CONSULTANTS INC. AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
2. THE POSITION OF THE POLE LINES, CONDUITS, WATERMAINS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, 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 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 CONTRACTOR'S EXPENSE.
5. AT LEAST TWO DIFFERENT BENCHMARKS MUST BE REFERRED TO AT ALL TIMES
6. 72 HOURS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS TO LOCATE, EXPOSE AND VERIFY INVERTS OF EXISTING SEWERS AT CONNECTION POINTS. SHOULD THE CONTRACTOR PROCEED WITHOUT COMPLETING THESE LOCATES, EXTRA COSTS RESULTING FROM DELAYS AND STANDBY TIME WILL NOT BE CONSIDERED.

PAVEMENT STRUCTURE

PAVEMENT STRUCTURE LAYER (COMPACTION RATE)	ASPHALT PAVING
HL-3 SURFACE COURSE ASPHALT (97% MARSHALL)	40mm
HL-8 BINDER COURSE ASPHALT (97% MARSHALL)	40mm
GRANULAR 'A' BASE COURSE (100% SPMDD)	150mm
GRANULAR SUB-BASE 50mm CRUSHER-RUN LIMESTONE (100% SPMDD)	200mm
TOTAL THICKNESS	430mm

NOTE: – PAVEMENT STRUCTURE TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. REFER TO GEOTECHNICAL REPORT FOR SPECIFICS
– SPMDD DENOTES STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM-D698
– REFER TO SITE PLAN ONLY FOR LIMITS AND TYPE OF MATERIAL FOR ALL SURFACE WORKS

2 / C1-1 Typical Swale Cross Section — N.T.S.


3-Storey Townhouse
PROP. CB-1 T/G=(208.35)
PROP. CB-2 T/G=(208.20)
PROP. CBMH-1 T/G=(208.15)
PROP. CB-4 T/G=(208.15)
PROP. CB-5 T/G=(207.56)
PROP. CB-6 T/G=(208.98)
PROP. CB-7 T/G=(208.93)
PROP. CB-8 T/G=(209.40)
PROP. CB-9 T/G=(209.10)
PROP. CB-10 T/G=(209.40)
PROP. DCBMH-1 T/G=(208.43)
PROP. DCBMH-2 T/G=(208.58)
PROP. DCB-1 T/G=(208.66)
PROP. DCB-2 T/G=(208.48)
PROP. AD T/G=(208.33)
PROP. AD T/G=(208.26)
PROP. AD T/G=(208.38)
PROP. AD T/G=(208.87)
PROP. AD T/G=(208.90)
PROP. AD T/G=(208.70)
PROP. AD T/G=(208.62)
PROP. AD T/G=(208.89)
PROP. AD T/G=(208.64)
PROP. AD T/G=(208.17)
PROP. AD T/G=(208.39)
PROP. AD T/G=(208.13)
PROP. AD T/G=(208.14)
PROP. AD T/G=(208.06)
PROP. AD T/G=(208.15)
PROP. AD T/G=(208.30)
PROP. AD T/G=(208.08)
PROP. AD T/G=(208.18)
PROP. AD T/G=(208.42)
PROP. AD T/G=(207.76)
PROP. AD T/G=(207.60)
PROP. AD T/G=(207.77)
PROP. AD T/G=(207.79)
PROP. AD T/G=(207.85)
PROP. AD T/G=(207.80)
PROP. AD T/G=(207.92)
PROP. AD T/G=(207.87)
PROP. AD T/G=(208.22)
PROP. AD T/G=(208.28)
PROP. AD T/G=(208.46)
PROP. AD T/G=(208.58)
PROP. AD T/G=(208.64)
PROP. AD T/G=(208.86)
PROP. AD T/G=(208.82)
PROP. AD T/G=(208.52)
PROP. AD T/G=(208.67)
PROP. AD T/G=(208.54)
PROP. AD T/G=(208.72)
PROP. AD T/G=(208.74)
PROP. AD T/G=(208.76)
PROP. AD T/G=(208.68)
PROP. AD T/G=(208.69)
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PROP. AD T/G=(208.66)
PROP. AD T/G=(208.63)
PROP. AD T/G=(208.61)
PROP. AD T/G=(208.59)
PROP. AD T/G=(208.57)
PROP. AD T/G=(208.55)
PROP. AD T/G=(208.53)
PROP. AD T/G=(208.51)
PROP. AD T/G=(208.49)
PROP. AD T/G=(208.47)
PROP. AD T/G=(208.45)
PROP. AD T/G=(208.43)
PROP. AD T/G=(208.41)
PROP. AD T/G=(208.39)
PROP. AD