40-60 Emma Street Comment Matrix OPA01-2023 and Z05-2023

Burnside Comments Comment	Response
tormwater Management and Drainage	
1 Due to the topography, we do not recommend the Town take any liability, or	
responsibility, for inspecting or monitoring of the rear yard catch basin system, such as	
failure could result in potential for claims of flooding from the future owners of the	
townhomes. There will need to be a common element for drainage, or a mutual drainage	
agreement among the owners. We expect this also to be required for the retaining wall	Site is to be a condo corporation and the storm system will be owned by the
that expands across the property.	corporation.
2	Updated, Fergus shand Dam coordinates utilized along with the IDF curve lookup
The rainfall intensity data should be from Fergus Shand Dam, AES station per Town	in order to provide for design storm in PCSWMM. Rational method calculations
standards.	also updated to utilize the Fergus Shand Dam
3 Drainage Areas:	
a The runoff coefficients should be included in the drainage area symbols and included in	
the legend for the drainage plans.	Updated
b	
The Pre-Development Drainage Conditions drawing should be revised to show the full	
extent of the upstream external drainage area identified as 1.01 ha. in size and to show	
how it drains through the site. The majority of the external area shown in post	
development plan by-passes most of the site and drains north of the townhouse blocks	
(i.e. 0.70 ha in area Post-6) but the grading plan doesn't show any major conveyance	Updated, all roof water is being directed to the onsite stormwater management
swale to ensure it by-passes the rear yard of the townhouses. A catch basin west of the	system. Limited flows from neighbouring properties are being directed around
sidewalk in a block dedicated to the Town may be needed. Calculations to confirm that	the building and will enter into rear yard CBs all to be owned by the condo
the 100 year storm can be conveyed through that area should be provided.	coporation.
c The northern portion of the site is cut-off on these drawings. Both the pre-development	
and post development drainage area drawings are to show all the lands included in this	
application.	Updated
d The pre-development drainage drawing does not include the west half of the Emma	
Street road allowance area. However, the post development drainage area drawing	
shows it as being included, yet the total drainage areas are equal in both analysis.	Updated

	The drainage areas to the two new single street catchbasins on the east side of the Emma	
C	Street centerline are not shown on the drainage area drawings or accounted for in the	
	storm sewer design. These areas are to be added in order to properly size the storm	
		Updated
f	3CWC1.	opuace
•	The townhouse backyard drainage areas are to include half the townhouse roof area due	
		No longer applicable
4	to peaked roof construction. The funon coefficients should be revised accordingly.	
4	The portion of drainage area Post-7 assigned a runoff coefficient of 0.90 appears low	
	when accounting for all imperviousness surfaces. A breakdown of impervious area	
	components (roofs, driveway, sidewalk, road pavement) should be included in the report.	Updated to 0.95
5		Provided through the PCSWMM model output
	The structural integrity of retaining walls typically require control of surface water which	
, , , , , , , , , , , , , , , , , , ,	would require collector swales and catchbasin inlets behind the wall. Please confirm	
	whether this has been considered in the design of the retaining wall as no conveyance of	
	surface water is shown to direct water away from the top of the wall.	A swale is provided with drainage away from the building
7	The storm sewer design is to be revised based on the above comments. Refer to red-	
	marked drawing comments.	Updated
8	Notwithstanding the elevation difference between foundation drain and the storm	
	sewer, a 100 year hydraulic gradeline analysis is to be provided. The minimum HGL	
	separation to the finished level 1 slabs of the townhouse blocks is 0.5 m.	Provided through the PCSWMM model output
9	The CBMHs will be benched so there is limited quality control being provided. Further	
	discussion is required on how quality control can be met in order to satisfy CLI-ECA	
	requirements.	It is proposed to include an OGS on site to be owned by the condo coporation
10	Provide the calculation and evaluate its impact if the runoff coefficient is greater than 0.5	
	which had been applied to the area in the Design Brief dated August 2011 for the William	PCSWMM was used to evaluate the site requirements for storm water storage as
	Street Outlet Works.	the new site has a runoff coefficient greater than 0.5
	ng Plan	
11	Refer to comments directly on the plan. We note that filling will be needed by the hydro	
	poles to maintain positive drainage towards the new barrier curbing installed which will	
	need to be approved by hydro. A topographic survey to the limits of the sidewalk	
	installation should be completed to confirm the location of the sidewalk and any	Owner will coordinate directly with Hydro One, a strut for the guy wire will also
	requirement for utility modifications.	be required to accommodate the new sidewalk

Conce	Concept		
12	Plans show hydro guy wires, as well as overhead hydro along its east side of the property.		
	We trust easements are in place for that infrastructure for the respective utilities		
	otherwise they should be provided accordingly.	Noted	
13	There is no street lighting along this section of Emma Street and should be in place		
	fronting at minimum fronting the development.	Electrical Plans to be provided at final design review	
14	There are existing water services on Emma Street (shown in background drawings		
	provided to Moorefield Excavating) that are not shown on the submitted drawing. We		
	request they be shown so that the contractor will be aware of their location. The Town		
	was also able to locate an older drawing which does show a sanitary service to 71 Emma		
	Street coming from the existing San. MH shown below.	Noted on the drawings	
	scape Plan		
	The plan should consider underground services. It is unlikely any of the trees shown in		
	the front yard will be able to be planted.	Revised plan provided for new development	
	Potential equipment may be needed to do future repairs to the rear yard storm sewer.		
	Planting trees along the west side or east side of Block 2 is likely problematic in the long		
	term.	Storm sewer is now a private element to be owned by the condo corporation	
	A note should be added on the plans, that trees should not be planted within 3 m of the		
	retaining wall or withing a 1H:1V envelope measured from the back of the bottom of the		
	retaining wall structure whichever is greater.	Notes Added	
	creening		
	Little Brown Myotis, an endangered bat species was recorded 53 times on the property		
	over 10 nights. We recommend that the proponent submit an Information Gathering		
	Form to the Ministry of Environment, Conservation and Parks (MECP) to confirm any		
	permitting requirements. Prior to ZBA approval, the proponent should obtain either 1)		
	written confirmation that a permit is not required, or 2) written confirmation that a		
	permit is required and commitment from the proponent to carry out all permit		
		No permit is required. (Refer to emails between Envision and MECP)	
Veget	Vegetation Management Plan		
19			
	No comment, but the timing of the clearing should be conducted between Oct 1st and		
	April 1st per the Screening report, however, should also consider impacts of erosion and		
	sediment control given the slope of the property and upstream drainage area.	Timin window noted on drawings	

Erosic	Erosion & Sediment Control Plan		
20	The majority of the site is being cleared. More measures including a staging plan should		
	be provided. If the site was cleared, a mud mat and silt fence alone would not be		
	sufficient for this site. The Grand River is close, and therefore it is more critical to provide	Staging plan provided, ESC plans updated and risk assessment provided per GRCA	
	enhanced ES&C.	comments	
Rende	erings and Elevations		
21	It's unclear where the rainwater leaders are located. They are not to discharge onto a		
	hard surface. The applicant should show where the downspouts will discharge on the		
	property.	Discharge to storm drain for connection into stormwater management pipe	
Noise	Report		
22	The assessment considered the proposed development as Class 1 area. However Class 2		
	area classification is more appropriate for this location. According to Table 2 in the		
	Environmental Noise Report, sound levels predicted due to traffic are 46 dBA and 40 dBA		
	for day and nighttime, respectively. Considering these values represent future worst case		
	scenario, the existing ambient sound levels are expected to be even lower and below		
	Class 2 exclusion limit values. Therefore, in our opinion, the development should be		
	considered and assessed as a Class 2 area.	JAI June 17, 2024 - addressed	
23	Sound levels predicted due to stationary noise exceed Class 2 evening limit for the		
	outdoor receptor (R1). Mitigation measures should be investigated and recommended to		
	ensure the sound level is below the applicable limit at this location.	JAI June 17, 2024 - addressed	
24	There are recommended warning clauses so it is unclear how the Town would ensure		
	these warning clauses are provided to future property owners without a development	JAI June 17, 2024 - addressed as the proposed development will require a Site	
	agreement.	Plan Application in the future	
25			
	The report relies on the analysis of no windows on the side faces. Typically, that is the		
	advantage of purchasing a corner unit and having the opportunity to have additional	JAI June 17, 2024 - addressed as the proposed development will require a Site	
	windows. It is unclear how this could be enforced without a development agreement.	Plan Application in the future	
	Water Supply		
	The Town is waiting for the commissioning of a new pumphouse to expand its water		
	capacity which is expected to be completed by end of Spring 2024.	N/A	
	Stability		
27	This report shall be to the satisfaction of the GRCA.	Refer to responses to GRCA comments below.	

	Comment	Response
1	No Comment	N/A
pp	er Grand District School Board	
	Comment	Response
1	The collection of Education Development Charges is required prior to the issuance of a	
	building permit(s).	N/A
Gran	l nd River Conservation Authority	
	Comment	Response
1		
	It appears that the datum used for the survey (CGVD 28; 1978 adjustment) does not	
	match the datum used and specified by the GRCA (CGVD28). The difference varies with	
	location; however, the 1978 adjustment results in ~0.15m vertical differential to the	
	original 1928 datum. The survey data set needs to be translated to match GRCA datum	Mapped floodplain was adjusted by 0.15m on the design drawings and marked a
	(CGVD28) and the Regional Flood Elevation of 455.39 metres re-mapped on the drawings.	adjusted (adj
2	The Geotechnical Investigation and Slope Assessment is generally acceptable, however,	A photographic record has been provided in the revised geotechnical report
	considered incomplete in the absence of a photographic record. Please submit a	
	photographic record to support the site inspection.	
3	The report mentions groundwater seepage at the location of BH3, which is at the middle	This has been addressed in the revised geotechnical report. Upon review, there
	of the slope. A review of this location suggests that it may have suffered a previous	are no signs of slope failure or landslides in this area.
	landslide. Please review and confirm that the ground disturbance and lack of vegetation	
	at this location is not due to previous landslide activity.	
4		This has been addressed in the revised geotechnical report. It is anticipated that
	Please provide recommendations on how to manage the groundwater seepage at	intermittant seepage from the slope can be redirected by the proposed building
	location BH3 for the service life of the structure, assuming that any attempt to block it	wall and foundation drainage system.
	could adversely affect the stability of the slope and/or the stability of the structure.	

Comments	Comments to be addressed at detailed design:		
5 The ES	SC assessment should follow the Erosion and Sediment Control Guide for Urban		
Constr	truction (TRCA, 2019) including an erosion risk assessment to guide/justify ESC Plan		
develo	opment. Additional measures should consider:	See Updated ESC Plans and risk assessment in the servicing brief	
a Vegeta	tation of areas inactive for 30 days or longer.	This has been included.	
b Conve	eyance of major event flows during construction (i.e., location, method, necessary		
protec	ection)	Included.	
c Evalua	ation of requirement of and specification of any erosion control measures on the		
embar	ankment.	A filter sock at the base of the embankment is being proposed	
Advisory co	omments for the Municipality	·	
6 The sit	ite will discharge to the municipal storm sewer and as such stormwater		
manag	gement review is deferred to the Municipality. The Municipality should be advised		
that th	he proposed runoff coefficient for the site is greater than the 0.50 value that was	Noted. Stormwater retention provided on site. Runoff will be limited to max 0.5	
assum	ned for the downstream storm sewer system.	runoff coefficient	
7 The su	ubmitted drawings are lacking information. Property boundary and major/minor		
flow re	routes should be clearly identified, and extent of external catchment areas fully		
shown	n. A legend should be provided on all drawings to identify all line types and		
symbo	ol/icons.	Updated	
8 The slo	lope is heavily vegetated. Removal of the vegetation will reduce the concentration		
time f	for surface runoff coming off the slope, which could impact Emma Street and/or		
downs	stream structures. The Municipality might consider surface water management for		
the pr	roperty.	Included	
9 lt may	y be prudent to extend the silt fencing around the entire site perimeter to act as a		
constr	ruction boundary.	Included	