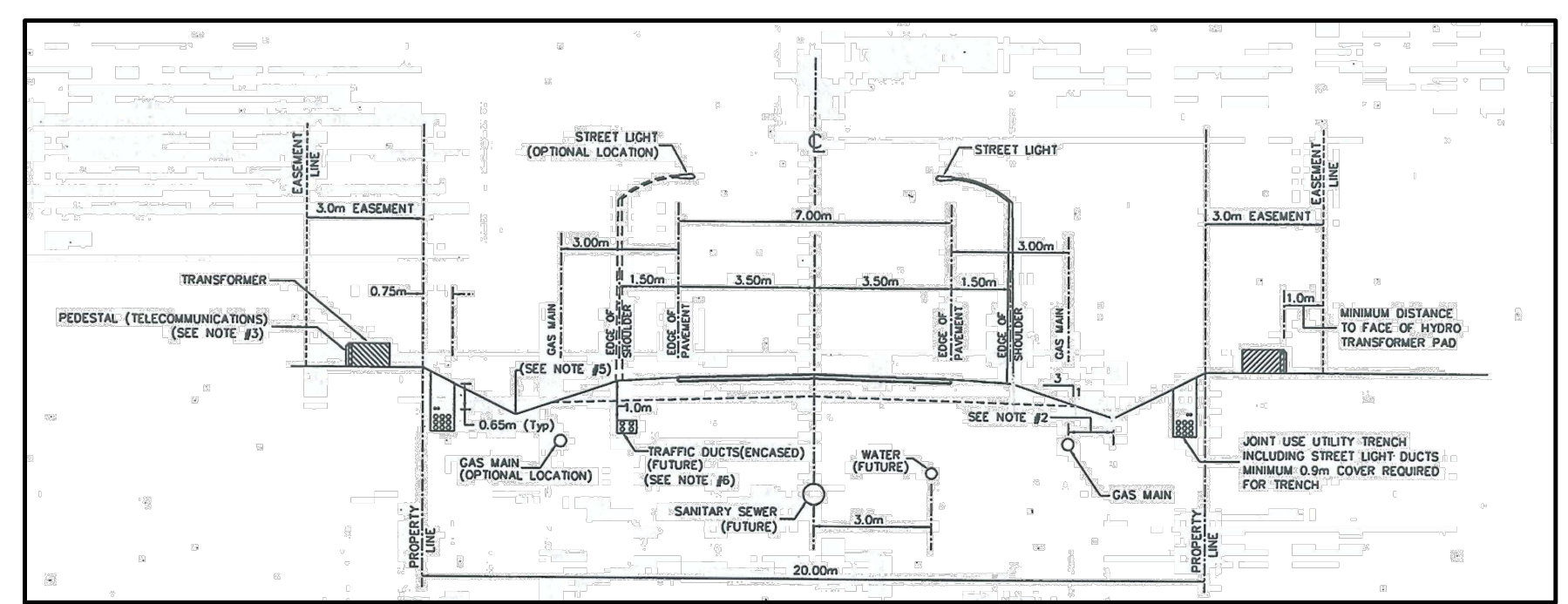


TBM = BELL KIOSK LOCATED ACROSS FROM SITE, ELEVATION = 79.82 m (GEODETTIC)

SITE SERVICING PLAN  
SCALE = 1:750

- GRADING & DRAINAGE NOTES**
1. Finished grade to slope away from proposed and existing buildings at a minimum of 2% grade for the first 5.0 metres from building. Grade elevations are as indicated.
  2. All roadside ditches, swales and exposed drainage channels to be treated with 75mm of topsoil and seeded/mulched or hydrosseeded as soon as possible. (Unless noted otherwise)
  3. All materials and construction methods to be in accordance with the City of Ottawa.
  4. All disturbed areas to be reinstated to the satisfaction of the engineer and the City of Ottawa.
  5. The owner (and/or Contractor) agrees to prepare and implement an erosion and sediment control plan at least equal to the stated minimum requirements and to the satisfaction of the City of Ottawa and the Mississippi Conservation, appropriate to the site conditions, prior to undertaking any site alterations (filling, grading, removal of vegetation, etc.) and during all phases of site preparation and construction in accordance with the current Best Management Practices for Erosion and Sediment Control such as but not limited to installing a light duty silt fence barrier as shown of Kollaard Associates Inc. dwg. No. 070415-3 (Erosion & Sediment Control Plan).
  6. Match existing elevations at all exterior property lines. Ensure positive drainage whether indicated or not.
  7. All lots to be graded to allow positive drainage away from the beds and dwellings consistent with the drainage patterns outlined on this plan. All isolated low areas are to be eliminated.
  8. Undersides of footing and terrace elevations have been set for grading drainage purposes only. Builders should consult the geotechnical report for the subdivision prior to construction. Builders should obtain a subsurface inspection report from qualified engineer prior to concrete placement.
  9. Driveway entrance culverts to will consist of non-perforated 12.00 METRE - 600mm Ø Corrugated Steel Pipe.
  10. Roadway subgrade shall be inspected by a licensed Geotechnical engineer prior to the placement of granulars.
  11. All drainage easements, road side ditches, and property line swales with slopes one percent (1%) or less require a subdrain (see typical detail).
  12. Subdrain cover material to consist of a sand/peat mixture capable of supporting vegetative growth.



OUTLET TO BE FIT TO EXISTING SLOPE WORK BELOW TOP OF BANK AND IN CREEK TO CONSIST OF PLACEMENT OF RIPRAP ONLY.

**NOTE:**

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2. All elevations are in metres and are based on a geodetic benchmark. TBM = Bell kiosk located south/west side of Dunrobin Road, across from proposed lot #2, elevation = 79.82 m (geodetic)
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9. Any changes made to this plan must be verified and approved by Kollaard Associates Inc.

No.	REVISION	DATE	BY
0	ISSUED FOR SUBDIVISION APPROVAL	SEP. 23, 2021	SD/ML

**Kollaard Associates Engineers**

BOX 189  
215 PRESOTT STREET  
KEMPVILLE, ONTARIO  
K0R 1A0  
FACSIMILE (613) 258-0475

(613) 860-0923



DESIGN	KL/SD/WK
CHECKED	SD
DRAWN	PV/RR/ML
CHECKED	SD
APPROVED	SD

**SCALE**  
1:750

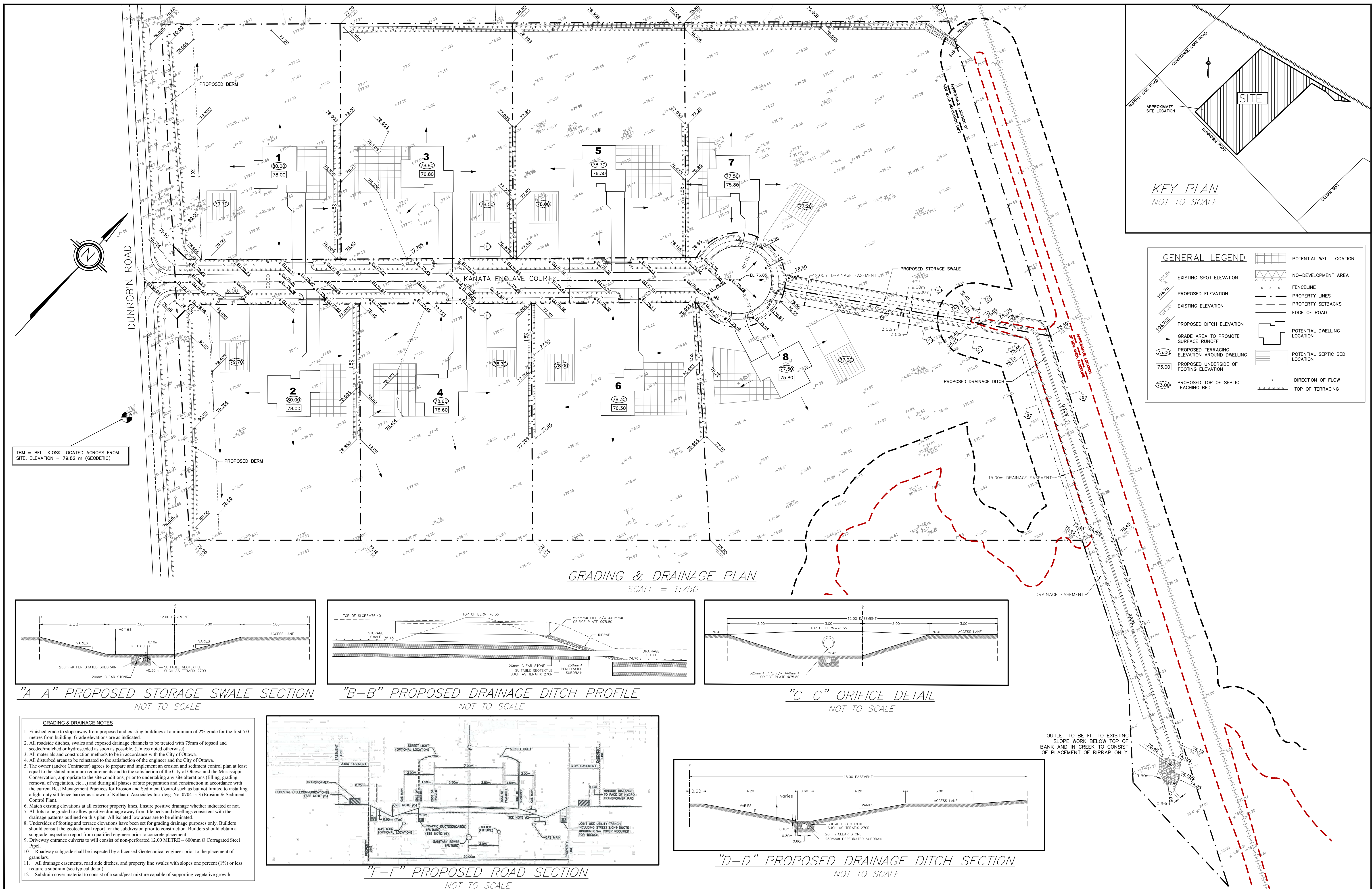
PROJECT LOCATION  
2050 DUNROBIN ROAD, CITY OF OTTAWA, ONTARIO

CLIENT NAME  
ZBIGNIEW HAUDEROWCZ

PROJECT NAME  
PROPOSED RESIDENTIAL SUBDIVISION

DRAWING  
SITE SERVICING PLAN

PROJECT No.	200977
DRAWING No.	200977-SER
DATE	MARCH 09, 2021
SHEET SET	



TBM = BELL KIOSK LOCATED ACROSS FROM SITE, ELEVATION = 79.82 m (GEOIDETIC)

**"A-A" PROPOSED STORAGE SWALE SECTION**  
NOT TO SCALE

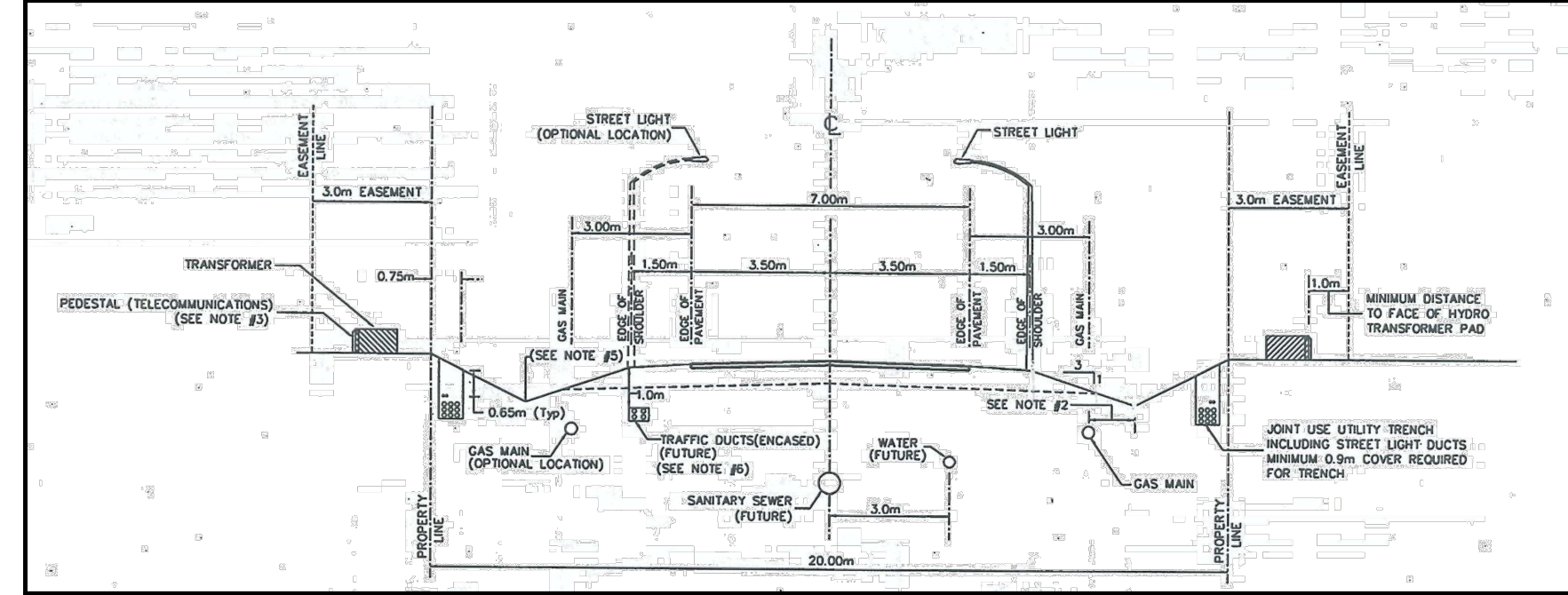
**"B-B" PROPOSED DRAINAGE DITCH PROFILE**  
NOT TO SCALE

**"C-C" ORIFICE DETAIL**  
NOT TO SCALE

**"D-D" PROPOSED DRAINAGE DITCH SECTION**  
NOT TO SCALE

**"F-F" PROPOSED ROAD SECTION**  
NOT TO SCALE

- GRADING & DRAINAGE NOTES**
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9. Any changes made to this plan must be verified and approved by Kollaard Associates Inc.

No.	REVISION	DATE	BY

**Kollaard Associates Engineers**

BOX 189  
215 PRESCOTT STREET  
KEMPVILLE, ONTARIO  
K0R 1A0  
FACSIMILE (613) 258-0475

(613) 860-0923

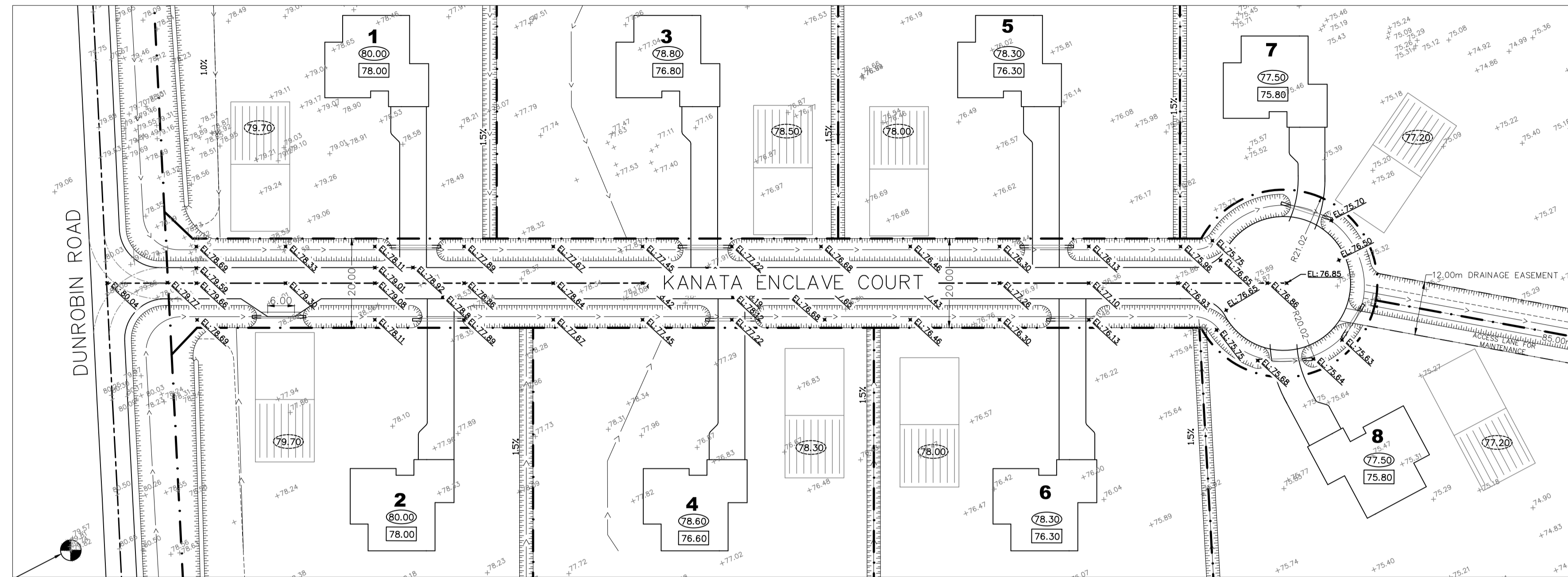
**LICENCED PROFESSIONAL ENGINEER**  
SEPT. 23, 2021  
S.E. deWit  
100079612  
PROVINCE OF ONTARIO

DESIGN: KL/SD/WK  
CHECKED: SD  
DRAWN: PV/RR/ML  
CHECKED: SD  
APPROVED: SD

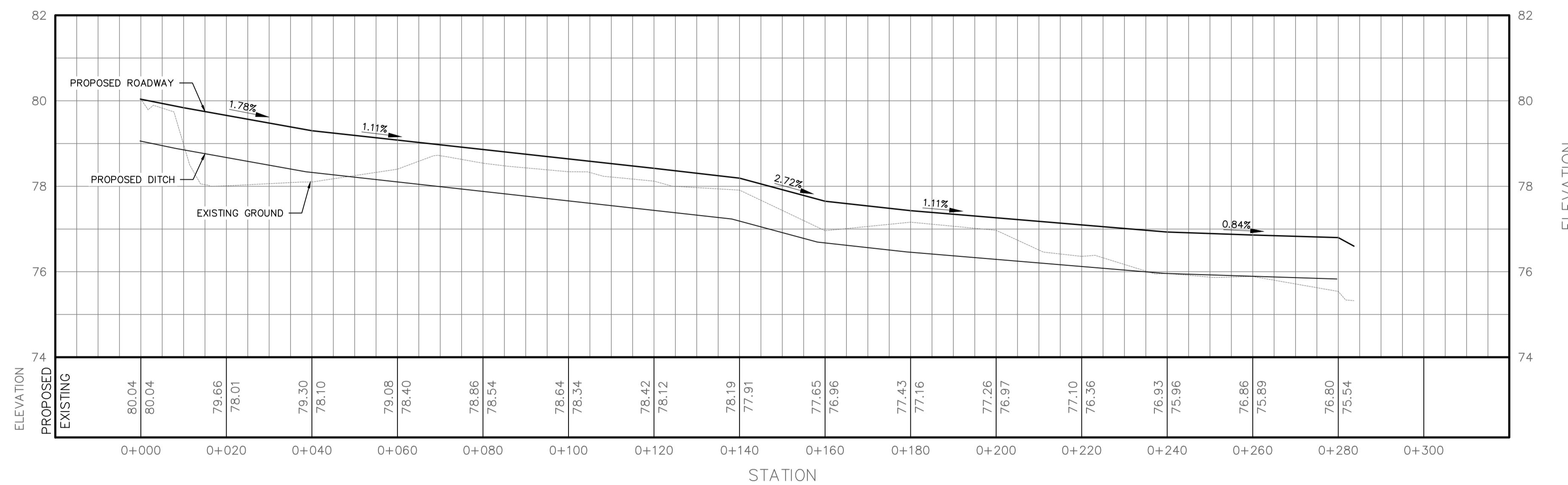
SCALE: 1:750

PROJECT LOCATION: 2050 DUNROBIN ROAD, CITY OF OTTAWA, ONTARIO  
CLIENT NAME: ZBIGNIEW HAUDEROWCZ  
PROJECT NAME: PROPOSED RESIDENTIAL SUBDIVISION  
DRAWING: GRADING & DRAINAGE PLAN

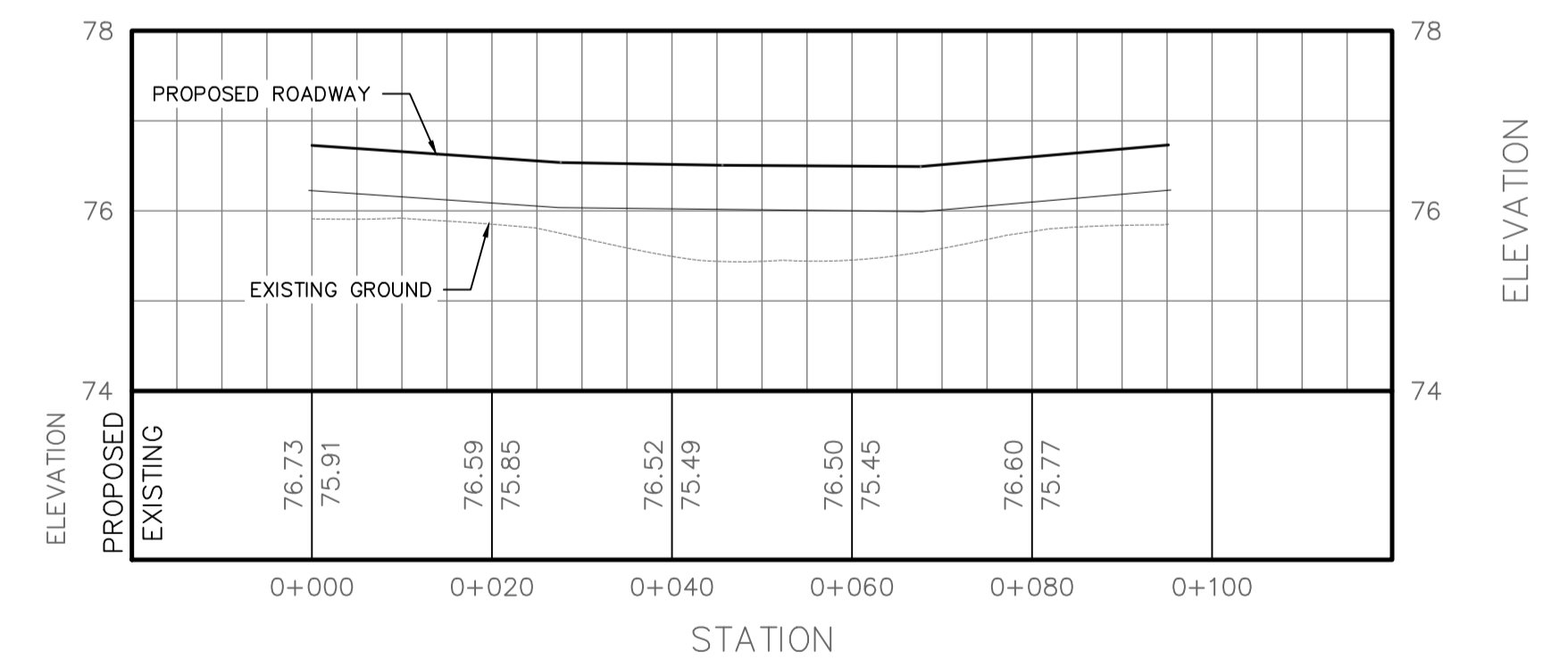
PROJECT No.: 200977  
DRAWING No.: 200977-GRD  
DATE: MARCH 09, 2021  
SHEET SET



**STREET 1 PLAN**  
SCALE = 1:750



**STREET 1 PROFILE**  
SCALE HORIZ. = 1:750 VERT. = 1:75



**CUL-DE-SAC EDGE PROFILE**  
SCALE HORIZ. = 1:750 VERT. = 1:75

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No.	REVISION	DATE	BY
0	ISSUED FOR SUBDIVISION APPROVAL	SEP. 23/2021	SD/NL

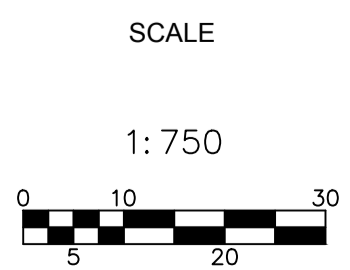
**Kollaard Associates**  
Engineers

BOX 189  
210 PRESCOTT STREET  
KEMPVILLE, ONTARIO  
K0G 1A0  
FACSIMILE (613) 258-0475

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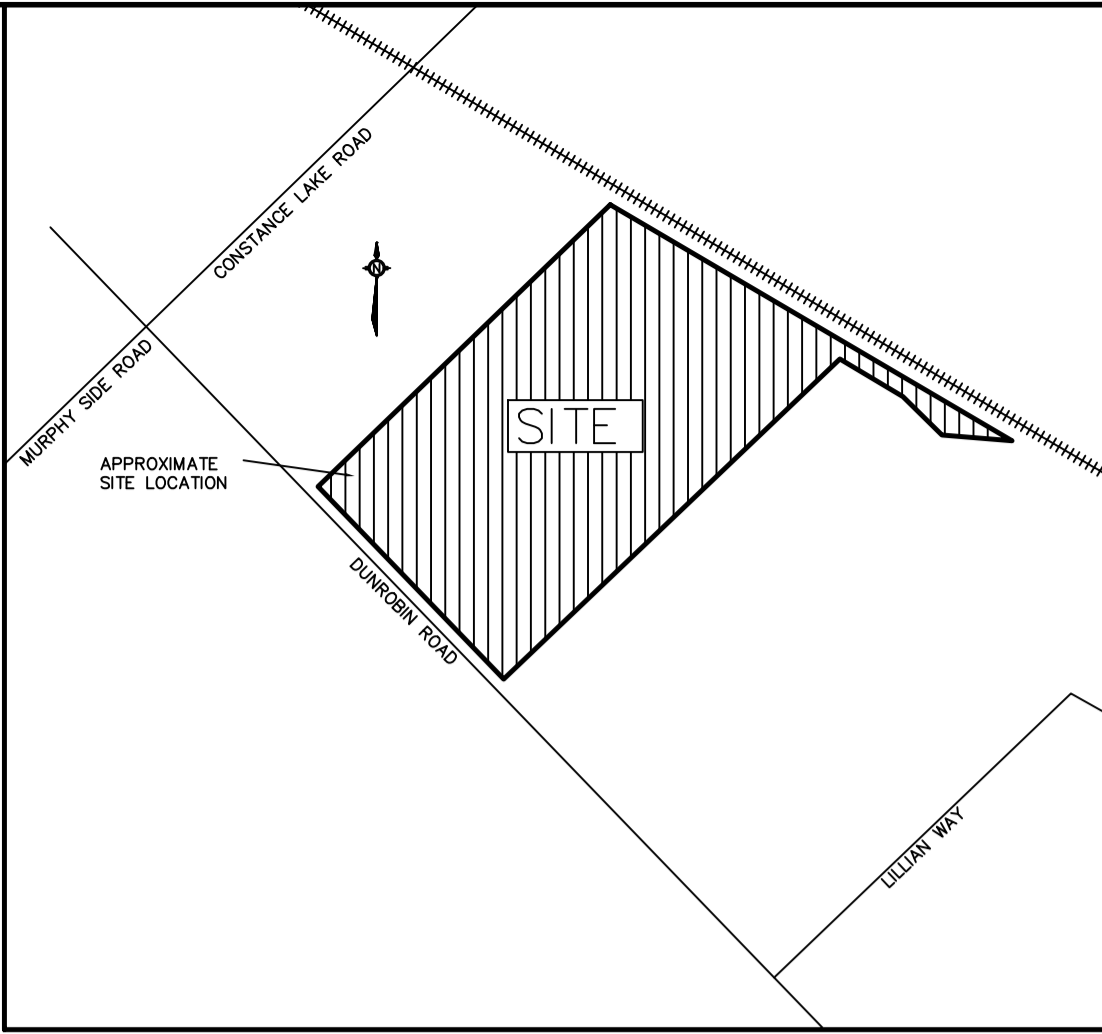
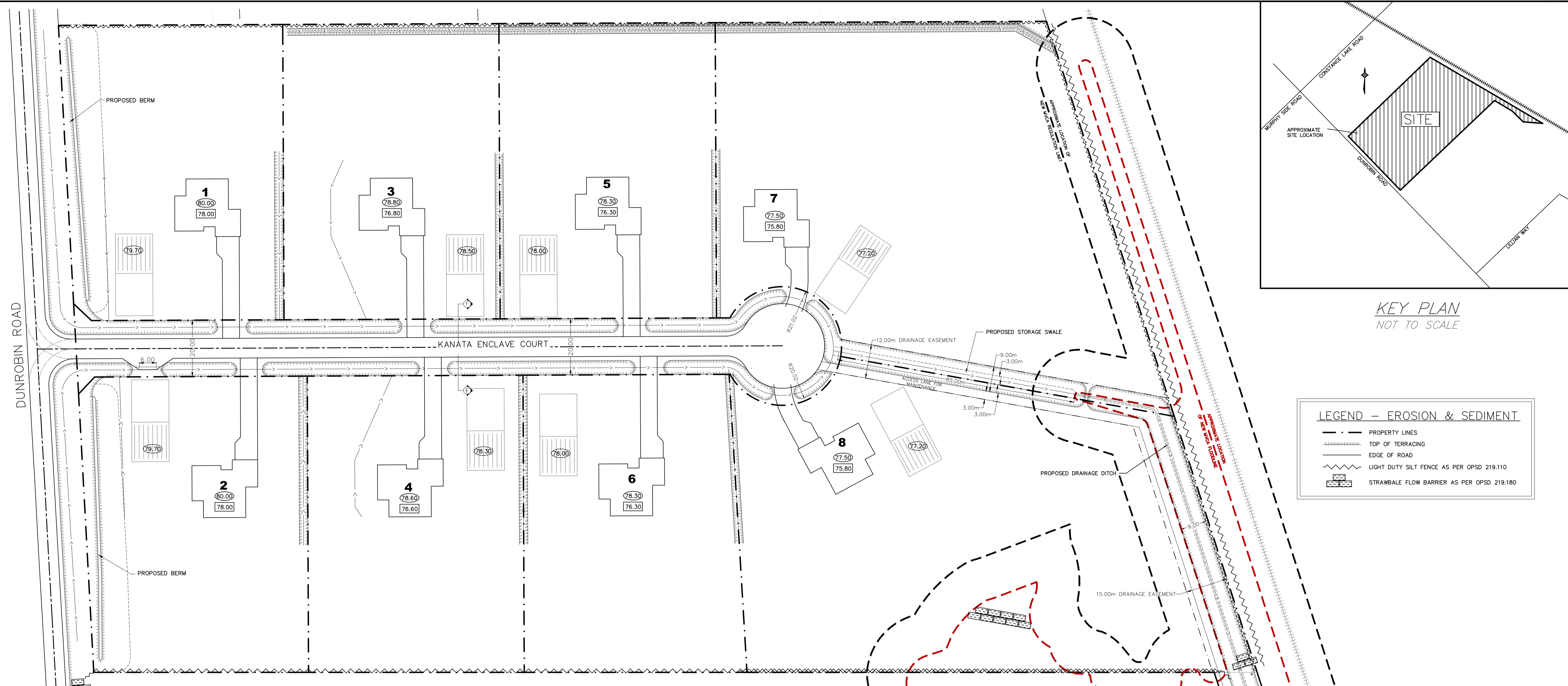


DESIGN	KL/SD/WK
CHECKED	SD
DRAWN	PV/RR/NL
CHECKED	SD
APPROVED	SD



PROJECT LOCATION	2050 DUNROBIN ROAD, CITY OF OTTAWA, ONTARIO
CLIENT NAME	ZBIGNIEW HAUDEROWICZ
PROJECT NAME	PROPOSED RESIDENTIAL SUBDIVISION
DRAWING	STREET 1 PLAN & PROFILES

PROJECT No.	200977
DRAWING No.	200977-PP
DATE	MARCH 09, 2021
SHEET SET	



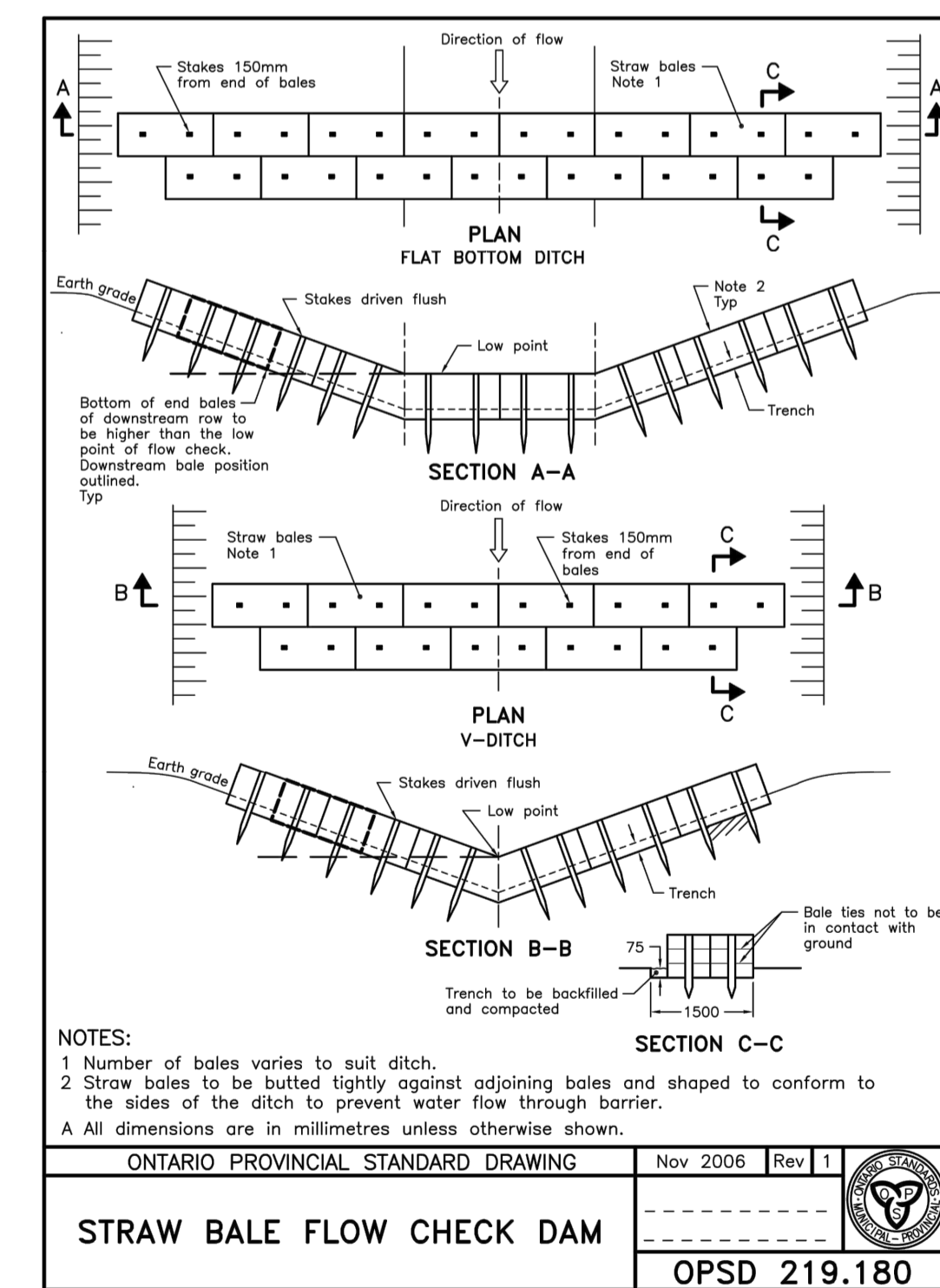
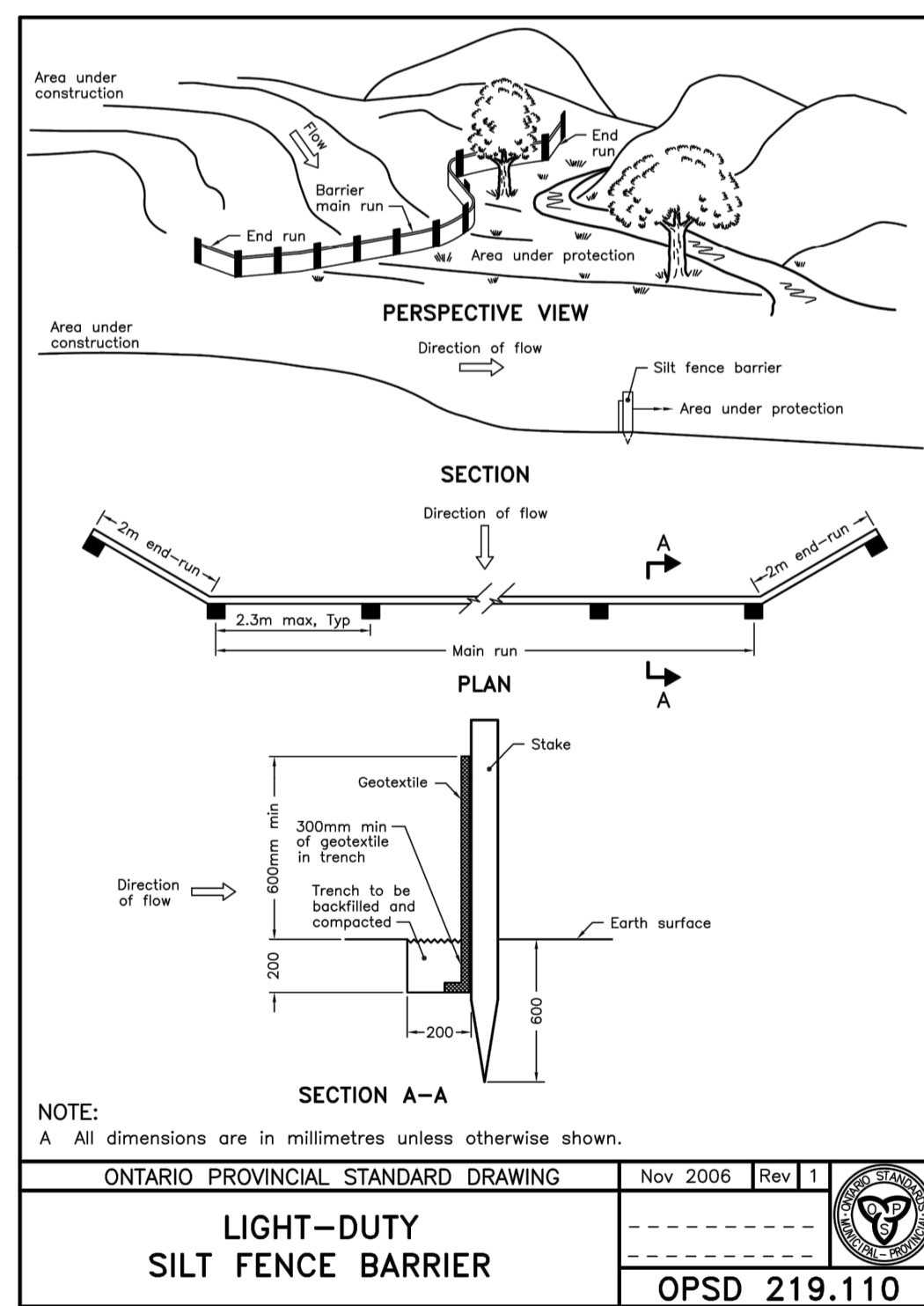
**KEY PLAN**  
NOT TO SCALE

**LEGEND - EROSION & SEDIMENT**

- PROPERTY LINES
- - - - - TOP OF TERRACING
- EDGE OF ROAD
- ~ ~ ~ ~ ~ LIGHT DUTY SILT FENCE AS PER OPSD 219.110
- ▬▬▬ STRAWBALE FLOW BARRIER AS PER OPSD 219.180

**SEDIMENT & EROSION CONTROL PLAN**  
SCALE = 1:750

- SEDIMENT & EROSION NOTES**
- Prior to construction, silt fence barriers will be placed along the front of the site as indicated on the drawing.
  - Straw bale flow check dams to be installed in swales as indicated. These controls will be cleaned after large storm events and maintained throughout construction. If deemed necessary, additional straw bale check dams and silt fences can be installed where required throughout construction.
  - All activities, including equipment maintenance and refueling, shall be controlled to prevent entry of petroleum products or other deleterious substances, including any debris, waste, rubble or concrete material into a watercourse. Refueling and maintenance of vehicles will take place at least 120 metres from the municipal drainage ditch. Any material which is inadvertently spilled shall be cleaned up and removed by the contractor at the contractor's expense in a manner satisfactory to the Contract Administrator. Construction material, excess material, construction debris, and empty containers shall be stored a minimum of 120 metres away from the municipal drainage ditch.
  - The Contractor shall have on site at all times an emergency spill kit that will include as a minimum the following items:
    - 2-3 in. diameter by 4 ft long floating absorbent boom suitable for water installation
    - 10 - 18 in x 18 in absorbent pads,
    - 5 lbs Zorbal absorbent material
    - 1 pair goggles, 1 pair PVC gloves
  - Contractor to have a supply of 20 - 40 lb. bags of Zorbal, 2 boxes of 4 ft floating absorbent boom (suitable for water installation, 40 pcs) and 1 box of 18 in. x 18 in. absorbent pads (100 pcs.) on site.
  - All spills will be reported to the local office of the Ministry of Environment as well as the Contract Administrator as soon as they happen. Spills action centre phone hotline # 1-800-268-6060.
  - Every effort will be made to ensure that all disturbed areas are topsoiled and seeded as soon as reasonably possible.
  - As each lot is developed, proper sediment and erosion controls will be installed and maintained until the development of the lot is completed and the vegetative cover is established. Sediment controls shall consist of, at minimum straw bales or a silt fence barrier at the down gradient property line. Grass shall be established as soon as reasonably possible.
  - This drawing is a living document which can be amended as required by the Conservation Authority, City of Ottawa, or Engineer during construction.



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No.	REVISION	DATE	BY
0	ISSUED FOR SUBDIVISION APPROVAL	SEP. 23/2021	RR/JAL

No.	REVISION	DATE	BY
0	ISSUED FOR SUBDIVISION APPROVAL	SEP. 23/2021	RR/JAL

**Kollaard Associates**  
Engineers

BOX 189  
210 PRESCOTT STREET  
KEMPVILLE, ONTARIO  
K0G 1A0  
FACSIMILE (613) 258-0475

(613) 860-0923

LICENSED PROFESSIONAL ENGINEER  
SEPT. 23, 2021  
S. E. deWit  
100079612  
PROVINCE OF ONTARIO

DESIGN KL/SD/WK  
CHECKED SD  
DRAWN PIV/RR  
CHECKED SD  
APPROVED SD

SCALE  
1:750

PROJECT LOCATION  
2050 DUNROBIN ROAD, CITY OF OTTAWA, ONTARIO

CLIENT NAME  
ZBIGNIEW HAUDEROWICZ

PROJECT NAME  
PROPOSED RESIDENTIAL SUBDIVISION

DRAWING  
EROSION & SEDIMENT CONTROL PLAN

PROJECT No. 209977  
DRAWING No. 200977-ESC  
DATE MARCH 09, 2021  
SHEET SET