PRIVATE DRIVE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE LATEST VERSION OF GRADING PLAN C-3 AND RETAINING WALLS C-4 PREPARED BY D.B. GRAY ENGINEERING INC.

TRUE NORTH

R.C. RETAINING WALL TYPE A (EXPOSED HEIGHT VARIES 0 TO 1.54m)

USE 10M, 300mm LONG, DRILL & EPOXY GROUT 100mm DEEP INTO MIDDLE OF CORNER UNIT. TO CONNECT IT TO CONCRETE RETAINING WALL

ADJOINING RETAINING WALL USE 10M 400x200 DOWELS AT 600 mm O.C. TO CONNECT THE TWO WALLS. FILL THE HOLLOW BLOCKS BY CONCRETE

R.C. RETAINING WALL TYPE B (MAX. HEIGHT 1.1m - 6/SK3)

RETAINING WALL SUPPORTING ONSITE SOIL

100

ADJOINING RETAINING WALL USE 10M 400x400 DOWELS AT 600 mm O.C. TO CONNECT THE TWO WALLS

R.C. RETAINING WALL TYPE A (MAX. HEIGHT 1.05m - 5/SK3)

R.C. RETAINING WALL TYPE B (MAX. HEIGHT 1.1m - 6/SK3)

CISTERN 1

CISTERN 2

CISTERN 3

1 SK1 RETAINING WALL LOCATION PLAN
1:125

1:125

5m 0 5m 10m 15m 20m 25m

REVISION	MAY 17, 2021
REVISED FOR SITE PLAN CONTROL APPROVAL APPLICATION	MARCH 11, 2021
ISSUE FOR PERMIT	MAY 27, 2020
REVISION	DATE

LAMPKIN
Structural Services Ltd.
34– 5330 CANOTEK ROAD
OTTAWA, ONTARIO K1J 9C4
PHONE: (613) 745–6437

CLIENT

NIVO DEVELOPMENTS INC.

PROJECT

1164-1166 HIGCROFT DRIVE

OTTAWA ONTARIO

TITLE

NEW RETAINING WALL

PROJECT #	DRAWN BY	DRAWN BY
20-14289	R.L.	R.H.

STAMP

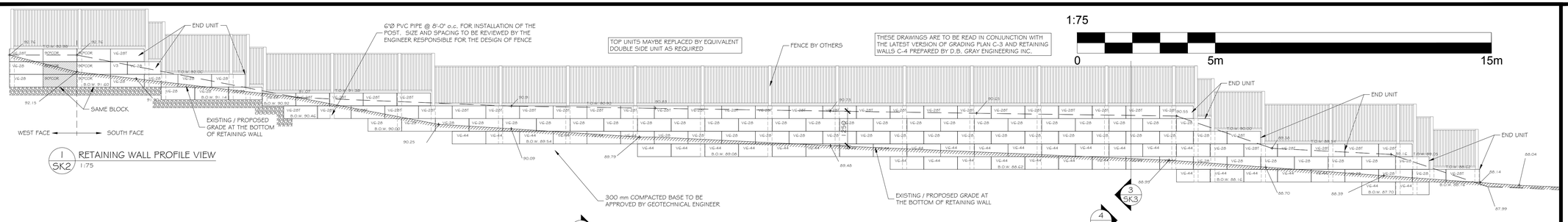
LICENSED PROFESSIONAL ENGINEER
R. HASHEMIAN
100219333
17/05/2021
PROVINCE OF ONTARIO

SCALE AS NOTED

DATE 17/05/2021

DRAWING # SK1

REV#1



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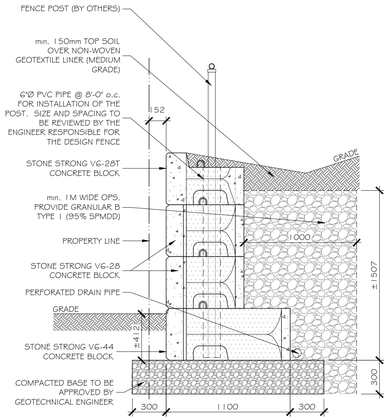
LICENSED PROFESSIONAL ENGINEER
R. HASHEMIAN
100219333
17/05/2021
PROVINCE OF ONTARIO

SCALE AS NOTED

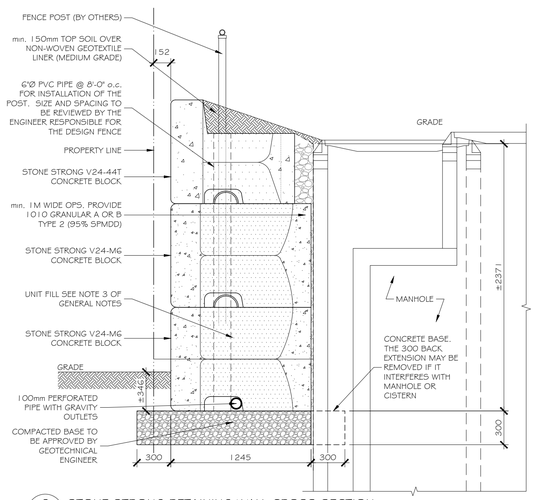
DATE 17/05/2021

DRAWING # SK2

REV#1



1 5K3 STONE STRONG RETAINING WALL CROSS SECTION
1:25



2 5K3 STONE STRONG RETAINING WALL CROSS SECTION
1:25

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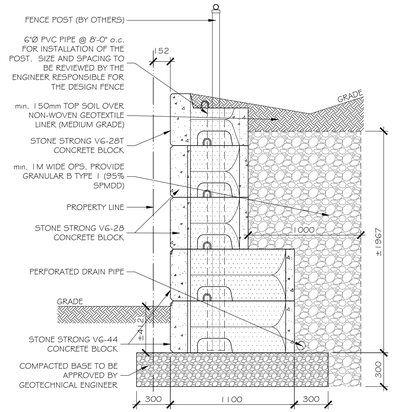
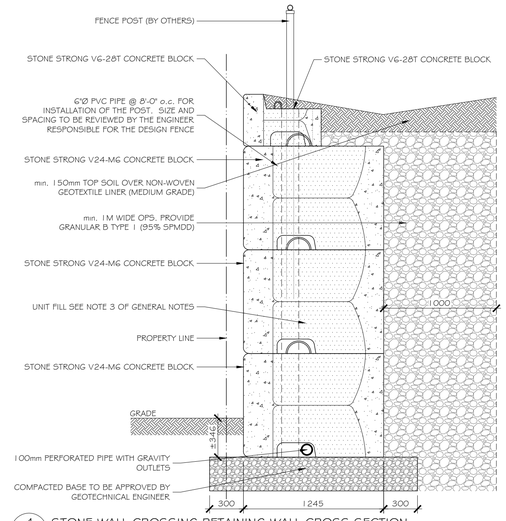
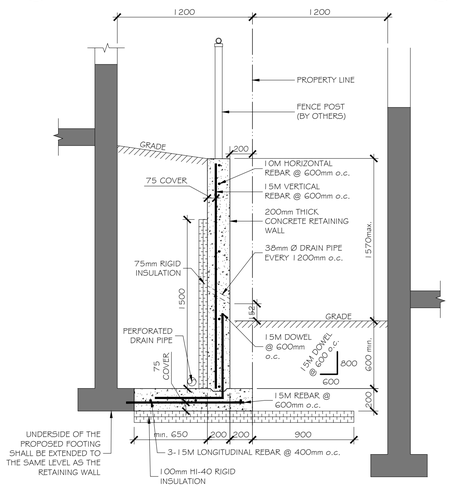


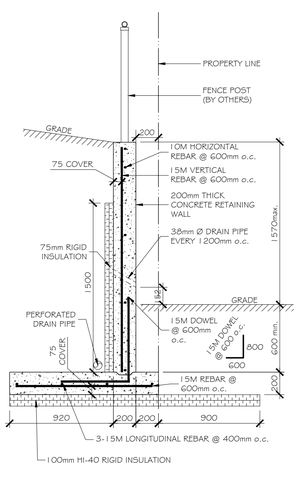
3 5K3 STONE STRONG RETAINING WALL CROSS SECTION
1:25



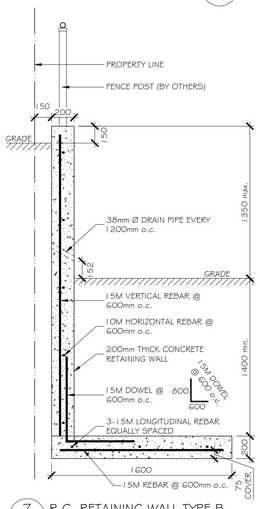
4 5K3 STONE WALL CROSSING RETAINING WALL CROSS SECTION
1:25



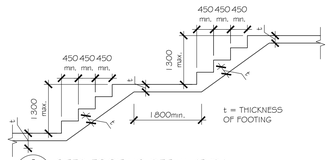
5 5K3 R. C. RETAINING WALL TYPE A #1
1:25



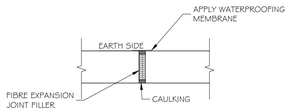
6 5K3 R. C. RETAINING WALL TYPE A #2
1:25



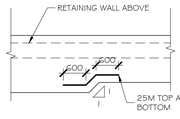
7 5K3 R.C. RETAINING WALL TYPE B
1:25



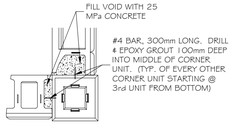
8 5K3 STEP FOOTING DETAIL (TYP.)
1:75



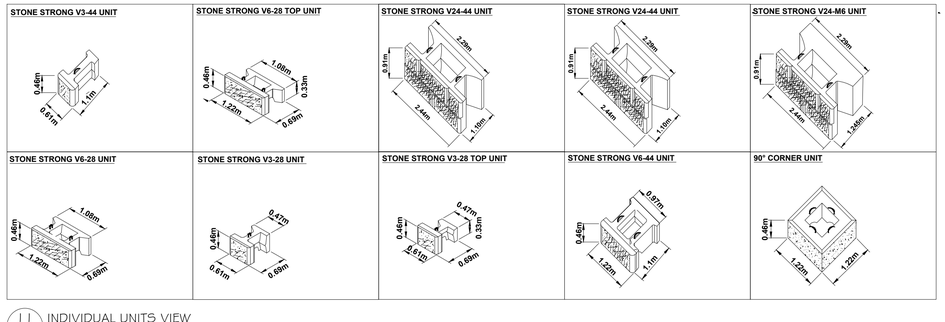
11 5K3 PLAN EXPANSION JOINT DETAIL
1:75



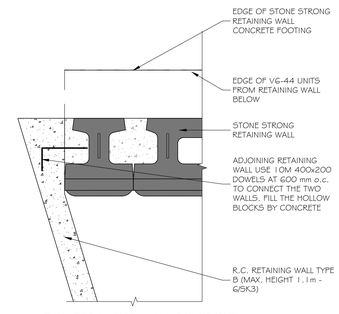
9 5K3 FOOTING WIDTH TRANSITION DETAIL PLAN (TYP.)
1:75



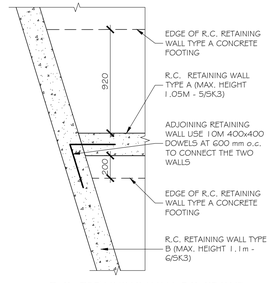
10 5K3 90° CORNER TIEBACK
N.T.S.



11 5K3 INDIVIDUAL UNITS VIEW
N.T.S.



12 5K3 R.C. RETAINING WALL TO STONE STRONG RETAINING WALL CONNECTION
1:25

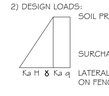


13 5K3 R.C. RETAINING WALL TO STONE STRONG RETAINING WALL CONNECTION
1:25

GENERAL NOTES:

1) ANY DEVIATION FROM CONDITIONS SHOWN ON THESE DRAWINGS, SHALL BE REPORTED TO THE ENGINEER.

2) DESIGN LOADS:



SOIL PRESSURE Kp=3.0
Ka=.33
δ =20kN/m³
SURCHARGE (q) = 3.6 kPa
LATERAL LOAD = 0.75 kN/m
ON FENCE (LL)
FACTOR OF SAFETY: 1.5

SEISMIC:
PEAK GROUND ACCELERATION = 0.28G
SITE CLASS D

3) MATERIALS:
A) CONCRETE STRENGTH AT 28 DAYS TO BE 28 MPa w/ 5% TO 8% AIR ENTRAINMENT.
B) REINFORCING STEEL TO BE DEFORMED TYPE Fy = 400 Mpa
C) UNIT FILL SHALL BE CLEAN COURSE GRANULAR MATERIAL. UNIT FILL SHALL FILL CAVITIES WITHIN ABD BETWEEN THE UNITS
D) STONE STRING (5, 5.) BLOCKS AS SHOWN IN SECTION DETAILS.

4) ALL WORK TO BE CONDUCTED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE (2012).

5) ALL CONCRETE WORK TO BE CONDUCTED IN ACCORDANCE WITH CSA A23.3-19.

6) SOIL BEARING TO BE 90kPa AS PER GEOTECHNICAL REPORT DATED MAR., 11, 2021 BY LRL ASSOCIATES LTD.

7) SITE REVIEW OF STRUCTURAL ITEMS, AS NOTED ON THESE DRAWINGS, SHALL BE COORDINATED WITH LAMPKIN STRUCTURAL SERVICES LTD. THROUGH THE DURATION OF THE PROJECT.

8) PROVIDE 75mm CONCRETE COVER FOR REBAR

9) min. LAP LENGTH TO BE 800mm FOR 15M ø 500mm FOR 10M.

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PROVINCE OF ONTARIO

SCALE AS NOTED
DATE 17/05/2021
DRAWING # SK3
REV#1