REFER TO NOTES, DETAILS & SCHEDULES ON DRAWINGS C–8 & C–9

ON–SITE SEWAGE SYSTEM

TOTAL DAILY SEWAGE FLOW:
OFFICE AREAS:
THE GREATER OF:
16 EMPLOYEES x 75 L/DAY PER EMPLOYEE = 1,200 L/DAY
OR
107 m^2 OF OFFICES x 75 L/DAY PER 9.3 m^2 = 863 L/DAY
PLUS
WAREHOUSE AREAS:
4 LOADING BAYS x 150 L/DAY PER BAY = 600 L/DAY
TOTAL:
OFFICE AREAS (1,200 L/DAY) + WAREHOUSE AREAS (600 L/DAY) = 1,800 L/DAY

FORCEMAINS SHALL BE 50mm PVC SCH 40 PIPE.

INSTALL INSULATION OVER ALL SEPTIC FORCEMAINS, SEWERS & OTHER SEPTIC SYSTEM PIPES AS PER DETAILS ON C–5

2m
0m 1:100 10m

ALL TANKS AND CHAMBERS SHALL BE INSTALLED WITH ±500mm COVER; INSULATE TOP AND EXTEND 1200mm DOWN SIDES WITH MIN. 100mm TYPE SM HI–40 STYROFOAM

WATERLOO BIOLFILTER ANAEROBIC DIGESTER WITH INTERNAL PUMP CHAMBER: BOYD BROS. ADIPC–6000 TANK; C/W INNERTUBE PIPE (MIN. VOLUME 400 L), HIGHWATER ALARM, RISER & COVER ASSEMBLIES.C/W PUMP (LIBERTY 280–2 EFFLUENT PUMP OR APPROVED EQUAL), 'WATERLOO SMART PANEL' CONTROL PANEL (TIME DOSE TO BIOFILTER TANK 6 –10 L PER m^3 FOAM), INLINE FILTER, HIGHWATER ALARM, RISER & COVER ASSEMBLIES.

WATERLOO BIOLFILTER: BOYD BROS. BFCN–4800 TREATMENT UNIT, C/W MINIMUM 3.0 m^3 FOAM FILTER MEDIA (OR AS RECOMMENDED BY MANUFACTURER), PUMP (LIBERTY 280–2 EFFLUENT PUMP OR APPROVED EQUAL CONTROLLED BY THE 'WATERLOO SMART PANEL'), INLINE FILTER, HIGHWATER ALARM, RISER & COVER ASSEMBLIES. THE PUMP SHALL DOSE THE WATERNOx NITRATE REDUCTION TANK AND RECIRCULATE TO ANAEROBIC DIGESTER.

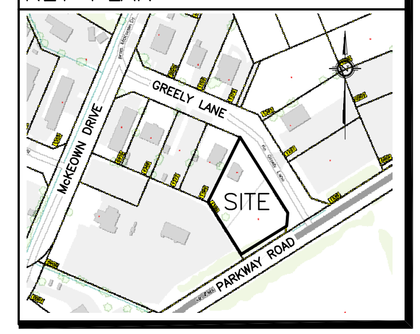
WATERNOx–LS 4,800 L TWO COMPARTMENT NITRATE REDUCTION TANK TO WATERLOO BIOFILTER SPECIFICATIONS C/W LIME–SULFUR AGGREGATE MEDIA, PUMP (LIBERTY 280–2 EFFLUENT PUMP OR APPROVED EQUAL), HIGHWATER ALARM, RISER & COVER ASSEMBLIES. PUMP TO DEMAND DOSE DISPERSAL BED.

INV 98.55
5m–100 SAN @ 1%
INV 98.50
*SLOPE FORCEMAIN BACK TO PUMP CHAMBER
ANAEROBIC DIGESTER
FORCEMAIN
FM*
WATERLOO BIOLFILTER
WATERNOx–LS
SAND LAYER
FORCEMAIN
2.0m
STONE LAYER
INV 99.25
INV 99.25
STONE LAYER
OVERSIZED DISTRIBUTION BOX WITH A VELOCITY REDUCTION TEE OR BAFFLE. ANCHOR DISTRIBUTION BOX.
TYPE 'A' DISPERSAL BED
75mm DISTRIBUTION PIPES
4 x 2.5m RUNS AT 1.2m CENTERS
300mm STONE LAYER: 25.2 sq.m.
(25.2 sq.m. = 4.5m x 5.6m)
U/S OF STONE LAYER ELEVATION: 99.14
(+880mm ABOVE GROUNDWATER ELEVATION)
300mm SAND LAYER: 200 sq.m.
INC. MANTLE
(200 sq.m.: 8.5m x 21.4m TO 25.7m)
15.0m
SAND LAYER
TOE OF MANTLE: 98.70

LEGEND

FFL	FIRST FLOOR ELEVATION
TOF	TOP OF FOUNDATION
USF	UNDERSIDE OF FOOTING
	PROPERTY LINE
CB	CATCH BASIN
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
SAN	SANITARY SEWER
ST	STORM SEWER
WL	WATER LINE
INV	INVERT OF PIPE
T.O.S	TOP OF SLOPE
B.O.S	BOTTOM OF SLOPE
	CENTERLINE OF SWALE
	150mm BARRIER CURB
D.C	DEPRESSED CURB

KEY PLAN



No.	DATE	REVISION
6	JUL 30–25	RE–ISSUED FOR APPROVAL
5	JUN 30–25	ISSUED TO OSSO FOR SEPTIC PERMIT
4	MAR 24–25	RE–ISSUED FOR APPROVAL
3	MAR 6–25	RE–ISSUED FOR APPROVAL
2	JAN 13–25	ISSUED FOR APPROVAL
1	DEC 18–24	ISSUED FOR COORDINATION

D. B. GRAY ENGINEERING INC.
Stormwater Management · Grading & Drainage · Storm & Sanitary Sewers · Watermains
700 Long Point Circle 613-425-8044
Ottawa, Ontario d.gray@dbgrayengineering.com

Project
PROPOSED
1–STOREY BUILDING
1386–1394 GREELY LANE
GREELY, ONTARIO

Drawing Title
SEPTIC SYSTEM

Engineer's Seal
LICENSED PROFESSIONAL ENGINEER
D.B. GRAY
17016502
JUL 30–25
PROVINCE OF ONTARIO
NOT VALID UNLESS SIGNED & DATED

Drawn	D.B.G
H. Scale	1:100
V. Scale	
Date	SEP 20–24
Job No.	24015

Drawing No.
C–2
of 9

D07–12–25–0004