TOTAL DAILY DESIGN SANITARY SEWAGE FLOW:
- OFFICE BUILDING WITH 5 EMPLOYEES
- PER EMPLOYEE PER 8HR SHIFT 5*75 = 375 L

OR
- PER EACH 9.3m2 FLOOR 3.3 X 75 = 247.5
- TDDSSF = 375 L/DAY

IMPORTANT AREAS & CALCULATIONS:
SEPTIC TANK:
- MINIMUM CAPACITY = 3 X 375 L/DAY = 1,125 L
- SPECIFIED SEPTIC TANK = 3,600 L

LEACHING BED:
- TYPE: ELJEN GSF A42
- NATIVE T = 20 MIN/CM
- DESIGN T = 6-8 MIN/CM
- CONFIGURATION: 2 ROWS @ 3 MODULES WITH 2.4m BETWEEN ROWS

MINIMUM GSF A42 MODULES
- (Q/95) = 4
- MODULES PROVIDED = 6

MINIMUM SAND CONTACT AREA
- (QT/400)(T=20MIN/CM) = 18.8m2
- SAND AREA PROVIDED = 36m2

CONTRACTOR TO VERIFY ACTUAL LOCATION OF PROPERTY LINES PRIOR TO CONSTRUCTION

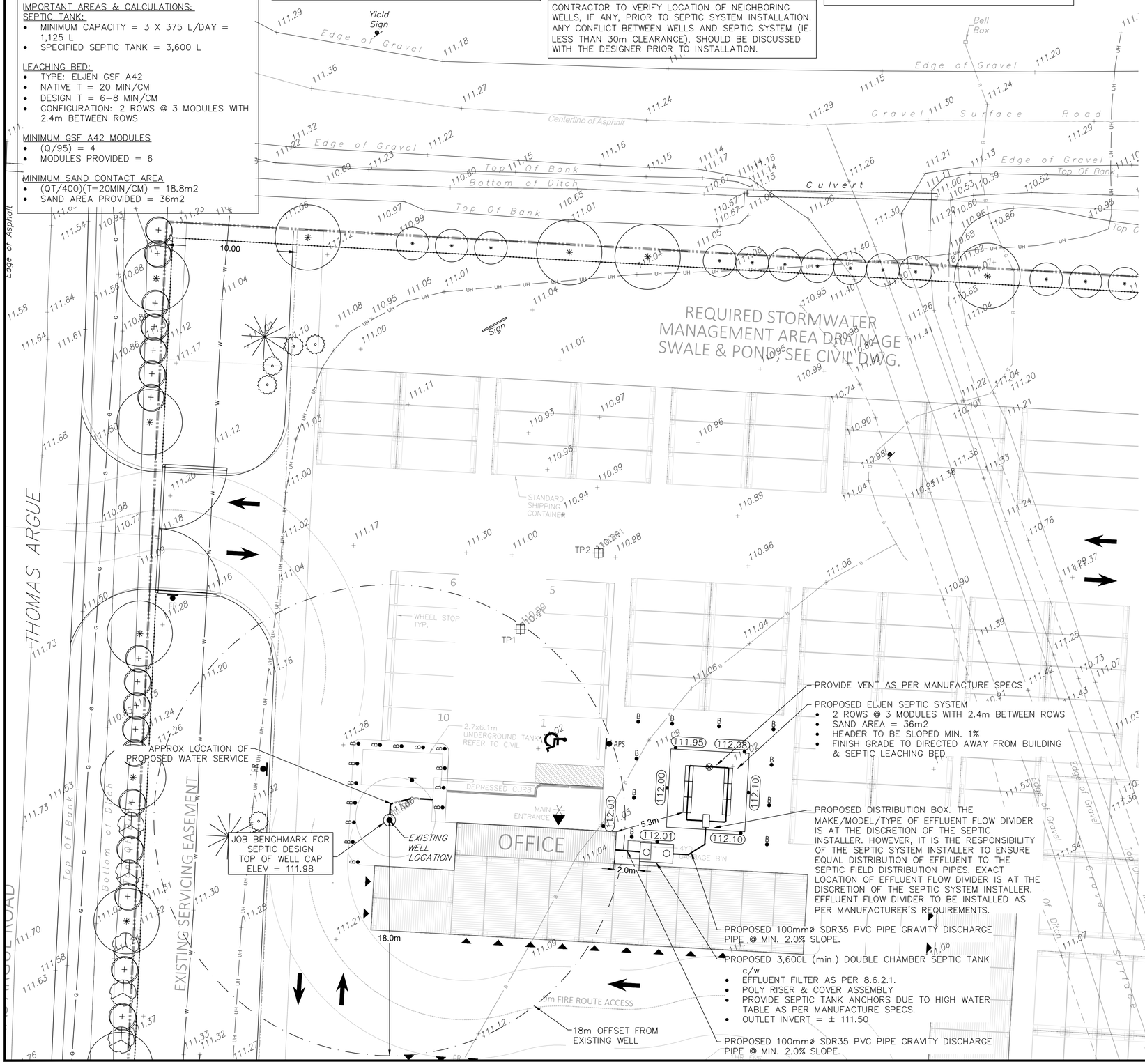
CONTRACTOR TO CONTACT THE DESIGNER IF BEDROCK OR GROUNDWATER IS PRESENT DURING CONSTRUCTION.

CONTRACTOR TO VERIFY ACTUAL LOCATION OF EXISTING GAS & UTILITY SERVICES AND PROTECT THEM DURING CONSTRUCTION.

THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

CONTRACTOR TO VERIFY LOCATION OF NEIGHBORING WELLS, IF ANY, PRIOR TO SEPTIC SYSTEM INSTALLATION. ANY CONFLICT BETWEEN WELLS AND SEPTIC SYSTEM (IE. LESS THAN 30m CLEARANCE), SHOULD BE DISCUSSED WITH THE DESIGNER PRIOR TO INSTALLATION.

SOIL AND GROUNDWATER CHARACTERISTICS WERE IDENTIFIED AT BOREHOLE (TEST PIT) LOCATIONS ONLY AND MAY VARY BEYOND THE TEST LOCATIONS. IF SOIL AND UNDERGROUND WATER CONDITIONS, OTHER THAN THOSE USED TO PREPARE THIS DESIGN, ARE ENCOUNTERED DURING INSTALLATION, DW LDS SHOULD BE CONTACTED TO DETERMINE THE EFFECT ON THE PROPOSED SEWAGE SYSTEM.



SCALE: 1:150

0 1 2 3 4 5 10 15 20m

GENERAL NOTES:

1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION OBTAINED FROM THEM.
2. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL MUNICIPALITY BEFORE COMMENCING CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.
4. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
5. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE LOCAL MUNICIPALITY AUTHORITIES.
6. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
7. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE LOCAL MUNICIPALITY.
8. ALL WORK TO BE UNDERTAKEN IN ACCORDANCE WITH THE LOCAL MUNICIPALITY STANDARDS AND SPECIFICATIONS.
9. PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
10. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
11. HYDRO, GAS AND BELL SERVICE LOCATIONS SUBJECT TO THE APPROVAL BY THE APPLICABLE AGENCY. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES (BELL, HYDRO) AND THE LOCAL MUNICIPALITY.
12. NO EXCESS DRAINAGE SHALL BE DIRECTED TOWARDS THE NEIGHBORING PROPERTIES DURING AND AFTER CONSTRUCTION.
13. THERE IS TO BE NO ALTERATION OF THE EXISTING GRADE AND DRAINAGE PATTERNS ALONG THE PROPERTY LINES.

SEPTIC NOTES:

1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL, AND LOCAL AUTHORITY STANDARDS AND REGULATIONS WHERE APPLICABLE, AND IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS.
2. INFORMATION PROVIDED ON THE PLAN IS BASED ON THE INFORMATION REASONABLY AVAILABLE AND/OR TO DW LDS AT THE TIME OF DESIGN. THE CONTRACTOR/OWNER(S) IS TO VERIFY THE ACCURACY OF THE INFORMATION CONTAINED HEREIN REGARDING, BUT NOT LIMITED TO, ELEVATIONS, BECNHMARKS, DIMENSIONS, SETBACKS, EASEMENTS, UTILITY LOCATIONS AND DETAILS, ETC., AND REPORT ANY ERRORS OR OMISSIONS TO DW LDS.
3. THE LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES MAY NOT BE DISPLAYED ON THIS PLAN AND, WHERE SHOWN, THEIR POSITIONS MAY NOT BE ACCURATE. IT IS THE RESPONSIBILITY OF THE OWNER(S)/CONTRACTOR TO LOCATE SUCH UTILITIES PRIOR TO COMMENCING WORKS. DW LDS DOES NOT ASSUME LIABILITY FOR DAMAGE TO SERVICES,UTILITIES, AND STRUCTURES DURING CONSTRUCTION OPERATIONS.
4. IT IS THE RESPONSIBILITY OF THE OWNER(S)/CONTRACTOR TO ENSURE THAT THE PLAN USED FOR CONSTRUCTION IS AN APPROVED AND LATEST VERSION.
5. DIMENSIONS AND ELEVATIONS DISPLAYED ON THIS PLAN ARE IN METRES. THIS IS NOT A PLAN OF SURVEY. THIS PLAN IS NOT TO BE SCALED, ALTERED OR REPRODUCED AND IS INTENDED FOR USE ONLY IN RELATION TO THE PROJECT FOR WHICH IT WAS PREPARED.
6. THIS PLAN SHOULD BE USED IN CONJUNCTION WITH RELEVANT DOCUMENTS, PLANS, AND DETAILS PREPARED BY DW LDS.
7. SOIL AND GROUNDWATER CHARACTERISTICS WERE IDENTIFIED AT BOREHOLE (TEST PIT) LOCATIONS ONLY AND MAY VARY BEYOND THE TEST LOCATIONS.
8. THE APPROVED SEPTIC SYSTEM DESIGN AS PREPARED BY DW LDS MEETS ALL ONTARIO BUILDING CODE REQUIREMENTS AND MANUFACTURER SPECIFICATIONS IN EFFECT AT THE TIME THE DESIGN WAS PREPARED. DW LDS DOES NOT WARRANT THE PERFORMANCE OR DURABILITY OF THE PROPOSED SEPTIC SYSTEM AND ITS COMPONENTS OR ASSUME LIABILITY FOR ANY DEFECTS OR ADVERSE PERFORMANCE CONCERNING THE PROPOSED SEPTIC SYSTEM.
9. MINIMUM REQUIRED SEPTIC SYSTEM SEPARATION DISTANCES:
- SEPTIC TANK TO STRUCTURES = 1.5m (min)
- SEPTIC TANK TO WELL = 15m (min) DRILLED TO A DEPTH OF 6m OR 30m (min) TO ANY OTHER WELL
- SEPTIC TANK TO PROPERTY LINE = 3m (min)
- DISTRIBUTION PIPE TO STRUCTURE = 5m (min)
- DISTRIBUTION PIPE TO PROPERTY LINE = 3m (min)
- DISTRIBUTION PIPE TO RIVER = 15m (min)

SURVEY NOTES:

LEGAL AND TOPOGRAPHIC INFORMATION OBTAINED FROM FAIRHALL, MOFFATT & WOODLAND LIMITED

BENCHMARK FOR SEPTIC SYSTEM: 111.98m

TOP OF WELL CAP

BENCHMARK FOR OVERALL SITE: 112.07m

TOP OF WASHER IN UTILITY POLE

LEGEND

EXISTING GRADE / PROPOSED GRADE	CORNER LOT GRADES
2.0%	PROPOSED DIRECTION OF SURFACE WATER DRAINAGE
	EXISTING DIRECTION OF SURFACE WATER DRAINAGE
×129.83	EXISTING GRADES
(88.03)	EXISTING GRADES TO REMAIN
88.03	PROPOSED GRADES
W	EXISTING WATERMAIN
ST	EXISTING STORM SEWER
S	EXISTING SANITARY SEWER
WV	EXISTING WATER VALVE
	EXISTING PROPERTY LINE
STM	PROPOSED STORM SEWER
S	PROPOSED SANITARY SEWER
WTR	PROPOSED WATER SERVICE
W	PROPOSED WELL
	EXISTING WELL
	PROPOSED ACCESS POINT
	PROPOSED LANDSCAPE WALKWAY
S	PROPOSED SANITARY SUMP PUMP
ST	PROPOSED STORM SUMP PUMP
	PROPOSED ROOF DOWN SPOUT/DRAINS
WV	PROPOSED WATER VALVE
TP	TEST PIT LOCATION
FH	EXISTING FIRE HYDRANT
HP	EXISTING HYDRO POLE
	EXISTING TREE
FF	PROPOSED FINISH FLOOR ELEVATION
TOF	PROPOSED TOP OF FOUNDATION ELEVATION
USF	PROPOSED UNDERSIDE OF FOOTING ELEVATION

ITEM	DESCRIPTION	DATE	BY	APPR'D
1	ISSUED FOR REVIEW	Jul 22/2026	P.W.	P.W.

SCHEDULE OF REVISIONS

NOT VALID UNLESS SIGNED

PROJECT:

Proposed Mini Storage
1508 Thomas Argue Rd
Part of Lot 15, Concession 3
City of Ottawa

TITLE:

SEPTIC SYSTEM DESIGN PLAN

DW LDS

DW LAND DEVELOPMENT SERVICES INC.

DRAWN: P.W.	SCALE: 1:150	DWG. No.	SSDP
DESIGNED: P.W.			
CHECKED: P.W.			