

SYMBOL	DESCRIPTION
	2" (50mm) SDR-26 (CLASS 160) MAIN LINE PVC PIPE
	POTABLE WATER SOURCE POINT OF CONNECTION (SIZED AS SHOWN)
	CISTERN WATER SOURCE 2" (50 mm) POINT OF CONNECTION
	RAIN BIRD ESP-LXIVM CONTROLLER: LOCATION TO BE DETERMINED
	RAIN BIRD 5000 P/C SPRINKLER - 1.5 NOZZLE @ 45 PSI (POTABLE WATER)
	RAIN BIRD 5000 P/C SPRINKLER - 3.0 NOZZLE @ 45 PSI (POTABLE WATER)
	1" (25mm) 100 PSI POLYETHYLENE PIPE

BLUE, GREEN, ORANGE AND CYAN OUTLINES DEFINE THE TREE AREAS TO BE WATERED FROM EACH CHAMBER

**IRRIGATION NOTES**

- CISTERN SYSTEM DESIGN 60 usgpm @ 60 psi AT WATER SOURCE POINTS OF CONNECTION. GROUND LEVEL POTABLE SYSTEM DESIGN: 60 usgpm @ 60 psi AT WATER SOURCE POINTS OF CONNECTION. GREEN ROOF CONNECTION POINTS SIZED AS SHOWN.
- PIPES ARE DIAGRAMATIC ONLY.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH BY-LAWS AND CODES HAVING JURISDICTION OVER SITE LOCATION.
- IT IS THE RESPONSIBILITY OF THE PLAN USER TO INFORM THEMSELVES OF THE EXACT LOCATION OF ALL POLES, LINES, CONDUIT, WATER MAINS, SEWERS AND OTHER UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES BEFORE COMMENCING WORK.
- LOCATION OF THE PIPE LINES AND OTHER IRRIGATION EQUIPMENT ARE APPROXIMATE. VALVES MAY BE LOCATED INAPPROPRIATELY ON THE PLAN DUE TO SPACE LIMITATIONS ON DRAWING. VALVE BOX LOCATIONS TO BE COORDINATED WITH LANDSCAPE ARCHITECT.
- ACTUAL LOCATION OF DRIP LINES AND OTHER IRRIGATION EQUIPMENT TO BE DETERMINED AT TIME OF CONSTRUCTION. HOWEVER THE DRIP DESIGN MUST COMPLY WITH THE DRIP DETAIL DRAWINGS AND MANUFACTURERS' DESIGN GUIDE.
- IT IS THE RESPONSIBILITY OF PLAN USER TO INFORM THEMSELVES OF THE EXACT MATERIAL QUANTITIES REQUIRED.
- THE IRRIGATION PLAN IS BASED UPON AND IS TO BE READ IN CONJUNCTION WITH THE LANDSCAPE PLANSITE PLAN, AND THEREFORE MAY BE SUBJECT TO RELATED CHANGES, IRRESPECTIVE OF THE IRRIGATION DESIGN INTENSION.
- THE PLAN USER IS TO FAMILIARIZE THEMSELVES WITH ALL RELATED SPECIFICATIONS.
- MECHANICAL CONTRACTOR IS TO PROVIDE WATER SOURCE POINTS OF CONNECTION (POC), SIZED AS SHOWN ON THE DRAWINGS, AT THE LOCATIONS SHOWN ON THE PLAN OUTSIDE OF THE BUILDING. MECHANICAL SHALL ALSO SUPPLY AND INSTALL AN APPROPRIATELY SIZED SHUT-OFF VALVE, BACKFLOW PREVENTER AND 1" DRAIN VALVE AT THE POINT OF CONNECTION TO THE POTABLE WATER SUPPLY IN THE MECHANICAL ROOM, AS PER LOCAL PLUMBING CODE.
- ELECTRICAL CONTRACTOR IS TO PROVIDE A 110 VOLT POWER SUPPLY TO THE IRRIGATION CONTROLLER AND 1" ELECTRICAL CONDUIT FROM THE CONTROLLER TO THE WATER SUPPLY POINTS OF CONNECTION OUTSIDE OF THE BUILDING.
- CISTERNS AND ASSOCIATED POINTS OF CONNECTION BY CIVIL ENGINEER.

The Ottawa Hospital  
 Below Ground Drip Zones  
 Drip Line Calculations on 18" Row Spacing with 12" Emitter Spacing (.6gpm emitters)  
 12" x 18" Application Rate = 0.64 inches/hour

Area #	Area Square Meters	Area Square Feet	Emitter Spacing	Row Spacing	Feet of Dripline	USGPM Per 100 ft	Total GPM	Number Zones	Cistern Origin
1	307	3305	12	18	2203	1	22.03	1	202
2	311	3348	12	18	2232	1	22.32	1	202
3	206	2217	12	18	1478	1	14.78	1	202
4	129	1389	12	18	926	1	9.26	1	202
5	85	915	12	18	610	1	6.10	1	202
6	120	1292	12	18	861	1	8.61	1	202
7	396	4263	12	18	2842	1	28.42	1	202
8	192	2067	12	18	1378	1	13.78	1	202
9	191	2056	12	18	1371	1	13.71	1	202
10	85	915	12	18	610	1	6.10	1	202
11	1490	16038	12	18	10692	1	106.92	4	204
12	551	5931	12	18	3954	1	39.54	2	204
13	200	2153	12	18	1435	1	14.35	1	204
14	170	1830	12	18	1220	1	12.20	1	204
15	110	1184	12	18	789	1	7.89	1	204
16	874	9408	12	18	6272	1	62.72	3	204
17	912	9817	12	18	6544	1	65.44	3	204
18	500	5382	12	18	3588	1	35.88	2	203
19	53	570	12	18	380	1	3.80	1	203
20	303	3261	12	18	2174	1	21.74	1	203
21	432	4650	12	18	3100	1	31.00	2	203
22	1237	13315	12	18	8877	1	88.77	3	203
23	270	2906	12	18	1938	1	19.38	1	203
<b>TOTALS</b>	<b>9124</b>	<b>98210</b>			<b>65473</b>		<b>655</b>	<b>35</b>	

- Irrigation Area (see charts)
- Below Grade Drip Irrigation
- Above Grade Drip Irrigation

See Irrigation Detail Drawing and Specifications for Details

The Ottawa Hospital  
 Above Ground Drip Zones  
 Drip Line Calculations on 18" Row Spacing with 12" Emitter Spacing (.6gpm emitters)  
 12" x 18" Application Rate = 0.64 inches/hour

Area #	Area Square Meters	Area Square Feet	Emitter Spacing	Row Spacing	Feet of Dripline	USGPM Per 100 ft	Total GPM	Number Zones	Cistern Origin
101	1715	18460	12	18	12307	1	123.07	5	202
102	275	2960	12	18	1973	1	19.73	1	202
103	620	6674	12	18	4449	1	44.49	2	202
104	745	8019	12	18	5346	1	53.46	2	202
105	5745	61839	12	18	41226	1	412.26	14	202
106	17445	187776	12	18	125184	1	1251.84	42	201
107	483	5199	12	18	3466	1	34.66	2	204
108	525	5651	12	18	3767	1	37.67	2	204
109	7050	75885	12	18	50590	1	505.90	17	204
110	480	5167	12	18	3444	1	34.44	2	204
111	1330	14316	12	18	9544	1	95.44	4	203
112	1775	19106	12	18	12737	1	127.37	5	203
113	2020	21743	12	18	14495	1	144.95	5	203
114	462	4973	12	18	3315	1	33.15	2	203
115	2400	25833	12	18	17222	1	172.22	6	203
116	805	8665	12	18	5777	1	57.77	2	203
117	550	5920	12	18	3947	1	39.47	2	203
118	1175	12648	12	18	8432	1	84.32	3	202
119	990	10656	12	18	7104	1	71.04	3	202
120	240	2583	12	18	1722	1	17.22	1	202
121	256	2756	12	18	1837	1	18.37	1	202
122	122	1313	12	18	875	1	8.75	1	202
123	194	2088	12	18	1392	1	13.92	1	202
<b>TOTALS</b>	<b>47402</b>	<b>510230</b>			<b>340154</b>		<b>3402</b>	<b>125</b>	

REFER TO L00-001-L00-005 FOR NOTES AND LEGENDS

**PROJECT**  
 THE OTTAWA HOSPITAL  
 NEW CAMPUS  
 DEVELOPMENT -  
 PHASE 4 MAIN HOSPITAL  
 BUILDING

900 CARLING AVE. OTTAWA, ONTARIO

**CLIENT**  
 The Ottawa Hospital | L'Hôpital d'Ottawa

**CONSTRUCTION**  
 PCL | EllisDon

**CLIENT PROJECT NO.**  
 1070002

**KEY PLAN**  
 TRUE NORTH | PROJECT NORTH

**CIS**  
 Creative Irrigation Solutions Inc.  
 25222 McMurphy Line  
 West Lorne, Ontario  
 CANADA  
 N4A 2P5  
 519-521-6120  
 Project # 25-015

THIS DRAWING TO BE PRINTED IN COLOUR

NO.	DESCRIPTION	DATE
01	SITE PLAN CONTROL, RESUBMISSION	2020-01-10
02	95% DD SUBMISSION	2023-09-19
03	65% DD SUBMISSION	2025-09-03
04	REVISED	2025-09-03

**REVISIONS**

**NOT FOR CONSTRUCTION**

COORDINATES MUST BE REPORTED IMMEDIATELY TO THE ARCHITECT. BEFORE PROCEEDING. ONLY FIGURED DIMENSIONS ARE TO BE USED. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. THIS DRAWING IS PROTECTED BY COPYRIGHT.

ALL DIMENSIONS ARE SHOWN IN METRIC.

**AUTHOR**  
 PWP

**PROJECT TEAM**  
**DESIGN/BUILDER** PCL/ED, A JOINT VENTURE  
**ARCHITECTURAL** PARSON ARCHITECTS LIMITED, JORDAN LABAREE PRATTE ARCHITECTS, ADAMSON ASSOCIATE ARCHITECTS, BBS ARCHITECTS INC.  
**STRUCTURAL** STEPHENSON ENGINEERING LTD, BOUTHELLETT PARDEAUX INC.  
**MECHANICAL** HH ANGLIS & ASSOCIATES LTD, CROSBY ENGINEERING LTD.  
**ELECTRICAL** MCELVEY & BIRNAN INTERNATIONAL INC.  
**CIVIL** WEST OAKS CIVIL INC.  
**LANDSCAPE** VERTICUS DESIGN INC, PWP LANDSCAPE ARCHITECTURE  
**BUILDING CODE** UMG BUILDING CODE CONSULTANTS LTD.

**AUTHOR PROJECT NO.**  
 PCL2301\_C

**STAMP**  
 STAMP | STAMP

**DRAWING TITLE**  
 IRRIGATION DESIGN  
 GROUND LEVEL

DRAWN	CHECKED
RZ	JC

SCALE AT 40" x 60" | DATE | 15-AUG-2024

GRAPHIC SCALE | SCALE IN METERS

**DRAWING NO.** | **REV NO.**  
 L11-100 | 03