

# TYPICAL STAKED DECIDUOUS TREE DETAIL

**D1** 1:30 P-WD-ARC-02

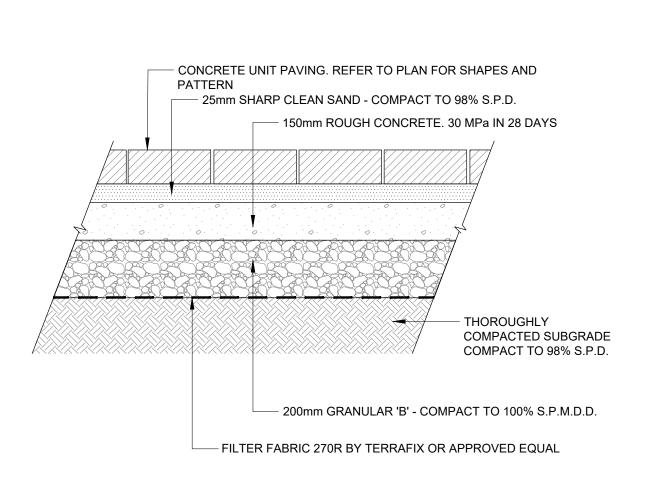
CUT A LEADER BRANCH.

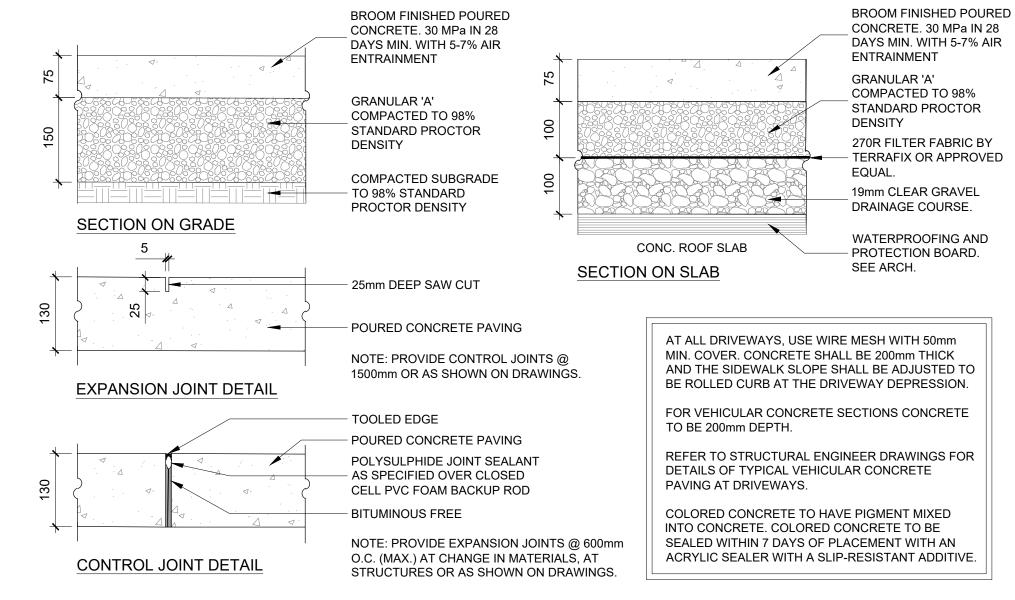
TYPICAL SHRUB PLANTING DETAIL

1:25

3 TYPICAL PERENNIAL PLANTING DETAIL

**D1** 1:20 P-WD-ARC-06





P-WD-ARC-05

## **4** UNIT PAVING ON CONCRETE

**D1** 1:7.5 P-WD-ARC-17

### 5 TYPICAL CONCRETE PAVING ON GRADE AND ON SLAB

**D1** 1:7.5

DEVELOPER: RIOCAN HOLDINGS INC.
2200 - 2300 YONGE ST. TORONTO
ARCHITECT: LLA ARCHITECTURE+
365A - 700 LAWRENCE AVE. WEST TORONTO

#### **GENERAL NOTES**

**LEGEND** 

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- any discrepancies to the landscape architect).
- 7. Do not leave any holes open overnight.
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   Contractor shall thoroughly clean areas surrounding the construction zone at the end of each work day.
- 9. Contractor to make good any and all damages outside of the development area that may occur as a result of construction at no extra cost.
- 10.This drawing is Copyright MHBC 2023.

2. 2025.07.08 ISSUED FOR SITE PLAN APPLICATION RF

1. 2025.03.21 ISSUED FOR SITE PLAN APPLICATION RF

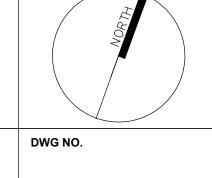


PROJECT

**DWG NAME** 

STAMP

SHOPPERS DRUG MART WESTGATE SHOPPING CENTRE 1309 CARLING AVENUE OTTAWA, ONTARIO



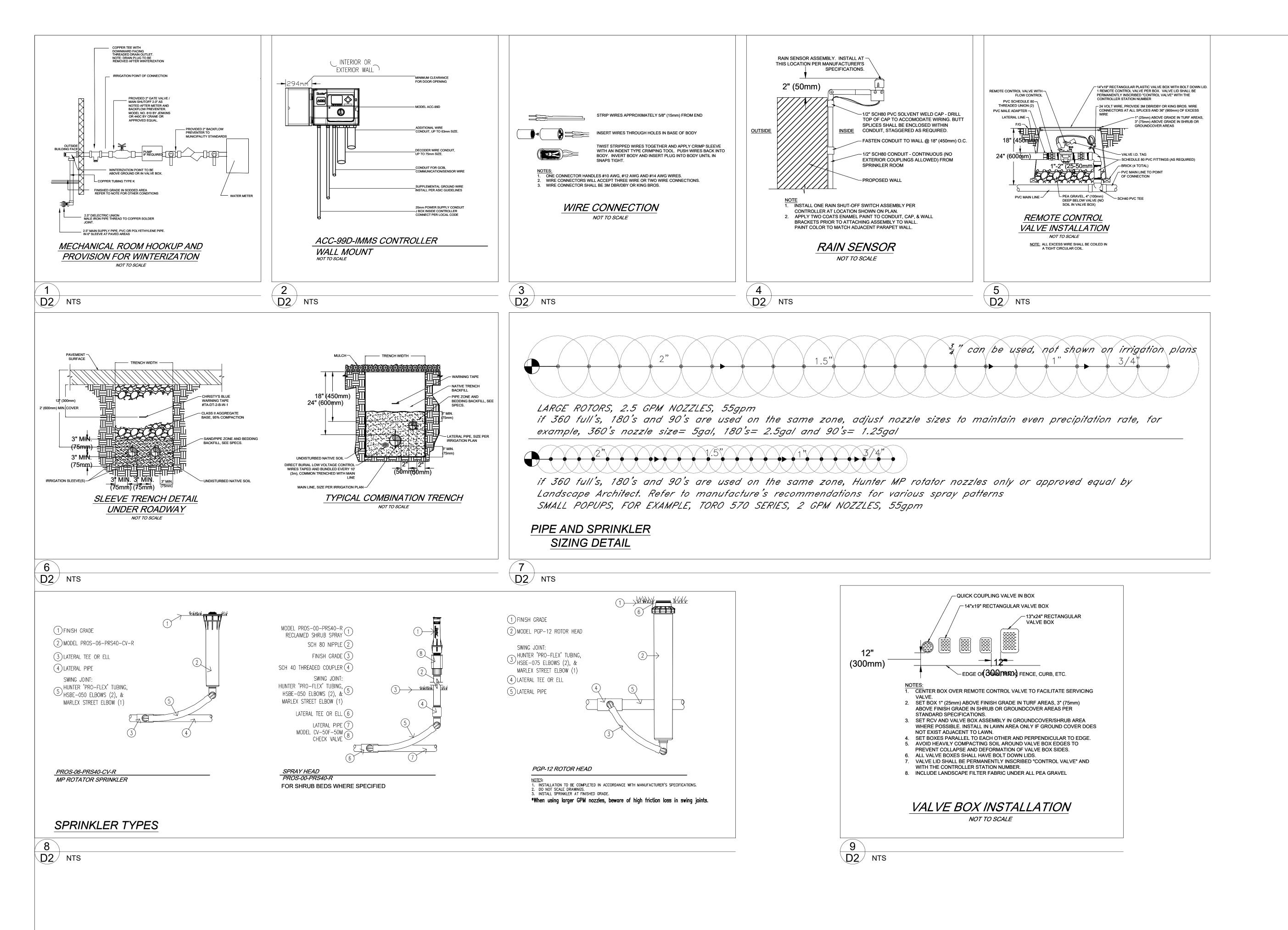
**JANUARY 2025** 

NTS

18248 AR

DETAILS

D1



**LEGEND** 

DEVELOPER: RIOCAN HOLDINGS INC. 2200 - 2300 YONGE ST. TORONTO ARCHITECT: LLA ARCHITECTURE+ 365A - 700 LAWRENCE AVE. WEST TORONTO

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2025.07.08 ISSUED FOR SITE PLAN APPLICATION 2025.03.21 ISSUED FOR SITE PLAN APPLICATION REVISION NO. ISSUED / REVISION



**JANUARY 2025** DRAWN BY PLAN SCALE NTS FILE NO. 18248 AR CHECKED BY

ISSUED FOR SPA ONLY NOT FOR CONSTRUCTION All drawings and specifications are instruments of service and will remain the property of MHBC Planning and must be returned at the completion of the work. This drawing shall not be used for construction purposes unless

the drawings are marked 'Issued for Construction' and the professional seal is signed and dated by the landscape architect.

PROJECT

**DWG NAME** 

STAMP

SHOPPERS DRUG MART WESTGATE SHOPPING CENTRE 1309 CARLING AVENUE OTTAWA, ONTARIO

DWG NO.

**IRRIGATION DETAILS** 

D2

IRRIGATION SPECIFICATIONS

PART 1 - GENERAL

1.1 Description

.1 Division 1, General Requirements, is part of this Section and shall apply as if repeated here.

.2 Provide all labour, materials, tools, services and incidentals to do complete irrigation work required and/or indicated on the Drawings and specified herein.

1.2 Submittals

.1 Submit shop drawings of mechanical work for main line connection at sprinkler room showing winterization provision

.2 Record drawings: .1 Submit record drawings to record location of installed Work of this Section.

.3 Maintenance and Operating instructions: .1 Submit a warranty of the Work of this Section covering the period for one year beyond the expiration of the warranty period specified in the General Conditions to the Contract.

.1 Supply itemized prices for irrigation pipe and sprinkler heads and an itemized price for all irrigation Work as called for in the tender form.

.2 The layout of the system as shown on Irrigation Plan is schematic only. Prior to submitting a quotation, the design of the system and site conditions should be examined, any questions or concerns should be directed to the Landscape Architect at this time.

1.4 Quality Assurance

.1 The Contractor must have five (5) years experience minimum in large scale underground lawn sprinkler systems. Provide 3 references for large scale projects.

.2 Contractor shall provide manual for operation and warranty papers to Owner.

1.5 Inspection

.1 Obtain the approval of the Landscape Architect for sprinkler head location stake out before proceeding.

1.6 Related Work

.1 Site grading: Section 02

.2 Landscape finish grading: Section 02

.3 Trees, shrubs and groundcovers: Section 02

.4 Plumbing connections: Division 15

.5 Electrical connections: Division 16

#### PART 2 - PRODUCTS

.1 4" PVC sleeves installed 18" below grade at pathways and at driveways are the responsibility of the irrigation contractor. Sleeves across roadway must receive the approval of the general contractor before proceeding.

2.2 Installed Inground (As per Irrigation Plan)

.1 Fixed spray pop-ups: except for shrub sprinklers which will be attached to an extension made of sch 80 PVC OR nipple, height to match shrub height, paint black and bury 10" into ground for stability. ALL SPRINKLERS ARE TO BE BY SAME MANUFACTURER. A. ALL SPRINKLER HEADS SHALL BE POP-UP TYPE HEADS.ACCEPTABLE MANUFACTURERS LISTED BELOW:

HUNTER INDUSTRIES INC.OR APPROVED EQUIVALENT.

B. SPRAY NOZZLES FOR SPRINKLER BODIES SHALL BE OF HUNTER MP ROTATORS OR APPROVED EQUIVALENT.

C. SPRAY BODIES SHALL BE OF HUNTER MPR 40 OR APPROVED EQUIVALENT.

D. EACH SPRINKLER HEAD SHALL INCLUDE AN INTERNAL 40 PSI REGULATOR TO ENSURE THE MP ROTATORS ARE OPERALLING AT THE OPTIMUM PRESSURE FOR HIGHEST EFFICIENCY.

PREFERRED SUPPLIER

1 Hunter: 1 TURF AREAS: S-TYPE PROS-06. .2 SHRUB BEDS: PROS-00.

.1 TURF AREAS: 1800 SERIES 1804, 1806

.2 SHRUB BEDS: PA-8S. .3 HIGH POP-UPS: 1812

.3 TORO: .1 TURF AREAS: 570Z SERIES 570Z-4P.

.3 HIGH POP-UPS: 570Z-12P.

.2 SHRUB BEDS: 570 SHRUB.

.2 Rotor spray pop-ups: PREFERRED SUPPLIER

1 TURF AREAS: PGP. .2 HIGH POP-UPS: PGP-12.

.3 RAIN BIRD: .1 TURF AREAS: T-4-PC/FC

.2 SHRUB BEDS: T-S-PC/FC

.3 HIGH POP-UPS: T-12-PC/FC

.1 TURF AREAS: S600L PC/FC #3 NOZZLE. .2 SHRUB BEDS: S600S PC/FC #3 NOZZLE. .3 HIGH POP-UPS: S600HP PC/FC #3 NOZZLE.

2.3 Electrical Wiring and Service

.1 Electrical service to automatic controller shall be in accordance with Division 16. Provide final hookup to equipment as part of the Work of this Section. This work is to be done by and co-ordinated with electrical contract.

.2 Low voltage: .1 Connections between controller and remote control valves shall be made with direct burial AWG-UF, 600 volt wire, 14 gauge or larger, insulation thickness 3/64", utilizing low density high molecular weight polyethylene insulation. .2 Splices, where permitted, shall be waterproofed using Rainbird, Snap-Rite, Scotch-Lok No 3576 Connectors, or approved equal. .3 pilot wires shall be a different colour for each 600V wire, 16 gage wire can be used. .4 For distances less than 500 feet, direct burial, AWG-UF,

stripe for each controller. Minimum size shall be No. 14 gage.

2.4 Solenoid Valves

.1 Irritrol series 216B for all stations (zones).

2.5 Controller

APPROVED EQUAL

MODEL ACC-99D-IMMS CONTROLLER, BY HUNTER INDUSTRIES, OR

CONTROLLER TO BE WALL MOUNTED AS PER MANUFACTURERS

SPECIFICATIONS. THE ET SYSTEM SHALL BE HUNTER INDUSTRIES MODEL ET SYSTEM. THE WIND SPEED SENSOR SHALL BE HUNTER INDUSTRIES MODEL ET

THE COMPATIBLE IRRIGATION CONTROLLERS SHALL BE HUNTER

INDUSTRIES MODEL [PRO-C, ICC, ACC] EQUIPPED WITH SMARTPORTS. CONTROLLER MUST HAVE THE FOLLOWING FEATURES: 1. MASTER ON/OFF SWITCH THAT PERMITS SYSTEM SHUTDOWN WITH

PROGRAMMING MAINTAINED 2. ET CAPABILITY

7. BATTERY POWERED MODELS NOT PERMITTED.

3. INDEPENDENT STATION PROGRAMMING 4. INDEPENDENT STALLON LIMING.

5. MANUAL OPERATION OPLLON. 6. VARIABLE DAY CYCLE.

(Include rain sensor)

2.6 Joint Cement and Primer

.1 Non-pressure plastic pipe and fittings (lateral pipes) shall be cemented in the same manner as pressure plastic pipe.

.2 Pressure plastic pipe and fittings shall be coated with a primer and then with a 100% active solvent.

.3 Both prime and solvent shall be similar in all respects to that manufactured by Christy's or approved equal.

2.7 Valves

.1 3" and smaller (unless otherwise noted on Drawings): ASTM B 62 brass body, 150 lb saturated steam-rated with screwed joints, non-rising stem, screwed bonnet, solid wedge disc. Provide with bronze handwheel. Nibco, or approved equal, by Mechanical Contract.

2.8 Valve Boxes

.1 Single valves: NDSO model VB010.

.2 Double valves: NDSO model VB012.

.3 More than two valves: NDSO Jumbo Series.

2.9 Piping and Fittings

.1 Pressure supply lines 1 1/2" and smaller downstream of backflow prevention unit shall be CSA approved 100 psi polyethylene pipe. Pressure lines 2" and larger shall be Class 160 PVC. .1 Threaded nipples: standard weight, Schedule 80, CSA approved, with molded threads. .2 All fittings under constant pressure: main line, turf valves and upstream side of automatic valves to be sch 80 pvc or galvanized steel. All galvanized insert fittings to be double clamped. Fittings on lateral pipe to be pvc insert fittings clamped with stainless steel bolt and clamp

.1 Galvanized pipe: CSA Schedule 40 mild steel with threaded .2 Fittings: medium galvanized screwed beaded malleable iron. .3 Protective coating: two coats of Koppers No. 50

.3 Visible pipe and fittings:

.1 General: integral gray colour. .2 Threaded risers and nipples: Schedule 80 PVC. .3 Other risers and fittings: Schedule 40 PVC, solvent weld.

.4 Sleeves: .1 For roadways 6" drainage pipe or 4" PCV pipe, by irrigation

.2 For pathways 4" PVC pipe, by irrigation contractor. .5 Conduit: Schedule 80 PVC.

.6 Water Supply and Backflow prenventor: Water supply will be provided in SPRINKLER-RM Back Flow Prevention device to be provided as well, by Mechanical Contract. Size: 50MM per Municipal standards

2.10 Pump - IF REQUIRED

PUMP TO BE INSTALLED BY IRRIGATION CONTRACTOR, COORDINATE WITH ELECTRICAL CONTRACT, POWER OUTLET TO BE PROVIDE BY BERKELEY 11/2 HP, SINGLE PHASE. MODEL # CP1XPHS CAT # S39522 11/2" SUCTION INTAKE

11/4" DISCHARGE. HEX REDUCER UP TO 2" IMMEDIATELY AT PUMP TO ENSURE 55 GPM.

PART 3 - EXECUTION

3.1 Examination

.1 Examine surfaces for conditions that shall adversely affect execution, permanence and quality of Work. .1 Verify that grading has been completed and the work of this Section can properly proceed. .2 Exercise care in excavating and working near existing utilities. Be responsible for existing utilities and for damages to utilities which are caused by operations or neglect. Check existing utility drawings for locations.

3.2 Water Source

.1 50MM in SPRINKLER-RM

3.3 Electrical Requirement

.1 A 120 V outlet is to be provided in SPRINKLER-RM for sprinkler system. 120 V outlet by electrical contractor.

.2 Conduit: all exposed wires to be installed in rigid conduit.

3.4 Pipe Installation

.1 Trenches for sprinkler lines and wiring shall be of sufficient width (minimum of 8") to permit proper handling and installation of the pipe and fittings. A depth of 18" should be

.2 The first 4" of backfill material over the pipe shall be free of stone or any foreign objects greater than 3/4" in diameter. The top 6" of backfill shall be free of rocks over 1" or trash. Piping greater than 1«" in diameter shall have a minimum cover of 12" .3 Backfill shall be thoroughly compacted to 95 % Standard Proctor Density in 6" lifts and evened off with a minimum of 2" of topsoil. .4 In rocky areas, the trenching depth shall be 2" below normal trench depth, to allow for placement of selected fill.

.5 All trenches that are opened during any particular working

day shall be closed and backfilled the same day.

.1 Where soil conditions allow the pipe depth of 18" to be met, the irrigation piping may be directly installed without trenching by use of vibratory plow. The feed blade must be equipped with a minimum bullet diameter of 1.5 times the O.D. of

the pipe to be installed. 3.6 Utility Services

.1 50MM supply to be connected in SPRINKLER-RM as indicated on Drawing and make minor changes in location necessary due to actual site conditions as work of this Section.

.2 Connect to electrical service as indicated on Irrigation Plan

site conditions as work of this Section.

disconnection.

.1 Place wiring in the same trench and along the same routing as the pressure supply lines, unless otherwise approved. .1 Install wiring prior to main line whenever possible. .2 When more than one wire is placed in a trench, tape wires

and make minor changes in location as necessary due to actual

.2 Provide a 12" expansion loop at each connection and directional change. Provide a sufficient length at each splice to allow valve bonnet to be brought to the surface without

.3 If wires under paved areas cannot be continuous, splices shall be enclosed in an approved junction box.

3.8 Field Quality Control

together at maximum 10' O.C.

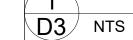
.1 Contractor's responsibility: .1 Notify Landscape Architect for the following reviews, with 1 week minimum notice.

PART 4 - MAINTENANCE

.1 System layout.

4.1 Winterization

.1 Irrigation contractor is responsible for winterizing the system in the fall and activating the system in the spring of the



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**LEGEND** 

2200 - 2300 YONGE ST. TORONTO ARCHITECT: LLA ARCHITECTURE+ 365A - 700 LAWRENCE AVE. WEST TORONTO

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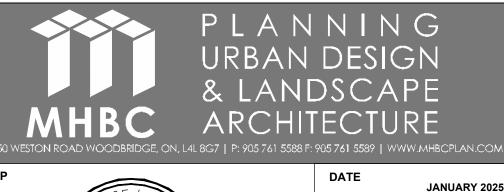
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SHOPPERS DRUG MART WESTGATE SHOPPING CENTRE 1309 CARLING AVENUE OTTAWA, ONTARIO

DWG NAME IRRIGATION NOTES

D3

DWG NO.

DRAWN BY

PLAN SCALE

**CHECKED BY** 

FILE NO.

NTS

18248 AR