

REQUEST FOR PROPOSAL

PROPOSALS MUST BE RECEIVED BY:
4:00 PM on Monday, March 27th, 2023

E-mail to: mwarner@cityoframsey.com
Mary Jo Warner
763-433-9820

Procure and Plant 42 or 78 B & B Trees, with corresponding Design-build Irrigation System for Sunwood Drive NW



Add Alternate ↓

Base Bid ↑



PROPOSAL SPECIFICATIONS

Provide and plant trees, and provide and install irrigation system as follows:

I/We agree to furnish all trees, materials, labor and incidentals to perform the work below.

- Mobilization, deliver and plant, B & B trees approximately 60" back of curb in the locations shown in the attached plan view document (Appendix).
- A mandatory pre-construction meeting shall occur at the job with the City and the Contractor's on-site supervisor.
- Each tree shall have no less than ½ cubic yard 'Plaisted's Growers Mix' incorporated into the parent soil immediately surrounding each tree, at a rate of 25% Plaisted's soil to 75% native or parent soil.
- All trees shall be staked or paint-located in the ROW, approximately 40' O.C. by the contractor, and then verified/approved by a City representative.
- Trees shall be thoroughly watered-in upon planting, and kept sufficiently moist by the Contractor until acceptance of the irrigation system by the City.
- Trees shall be individually approved for planting on site by the City upon visual inspection—no park grade trees permitted, nor any defects in the trunk will be approved.
- The root flare shall be properly located level with the top of the B-style curb, even if the ground level slopes down and away from back of curb. It is not anticipated that any soil generated from the tree planting excavations will be hauled away – rather, this sand may be evenly spread parallel to the curb line to level the ROW where the tree planting is to take place.
- After the correct placement and planting depth is approved by the city representative, a 4' diameter circle of 'mink mulch' wood chips shall be placed around each tree, 3" to 4" in depth.
- All trees shall be warranted for a period of 18 months following installation and acceptance by the City.

- **Base Bid** tree planting shall include the following trees at a minimum 2.5 diameter, with Elms (only) a minimum of 3" dbh:

 - 6, Swamp White Oak
 - 6, Red Oak
 - 6, Heritage River Birch (single stem)
 - 6, Accolade Elm

And 6 trees each (18 trees), of three of the following species;

 - Bur Oak
 - Sentry Linden
 - Espresso Kentucky Coffee Tree
 - Street Keeper Locust
 - Sienna Glenn Maple

- **Add Alternate** tree planting shall include the following trees at a minimum 2.5 diameter, with Elms (only) a minimum of 3" dbh:

 - 6, Swamp White Oak
 - 6, Heritage River Birch (single stem)
 - 6, Espresso Kentucky Coffee Tree
 - 6, Accolade Elm

And 6 trees each (12 trees), of two of the following species;

 - Bur Oak
 - Sentry Linden
 - Street Keeper Locust
 - Sienna Glenn Maple

- This Request for Proposal shall be a not-to-exceed amount, for the irrigation component, and numbers of trees to be planted. If upon field staking, it is determined that the tree count (of 42 or 36) can not 'fit' in the corresponding street blocks, the tree(s) shall be planted by the Contractor elsewhere in the downtown area, without the corresponding irrigation component. The Contractor must include within his/her quote any time or materials necessary and incidental to complete the work in a professional and quality manner. **There will be no Change Orders.**

- Key points of the design-build irrigation are noted on the 7 page appendix and may not be to scale – The relevant notes germane to this RFP are in color (many notes in black and white are carried forward in the plan view drawing from a previous project). All irrigation components shall be staked or located for field verification and approval by the city.
- The Base Bid irrigation main line is in place and consists of a 2" PVC pressurized pipe 32" to 48" below grade *approximately* 8' to 10' north of the curb line.
- The Add Alternate CL200 2" PVC main line shall be provided by the Contractor and installed 1.5' to 2' feet deep, approximately 1' foot back of curb.
- There shall be one Acclima decoder and one Hunter PROS valve per block A, B, and C for three total decoders and valves for the Base Bid. There shall be one Acclima decoder and one Hunter PROS valve per block D and E for two total decoders and valves for the Add Alternate blocks.
- Each block shall be served by 40 psi MP pop-up pressure regulating heads. The spray pattern shall be 5' x 30' with an approximate 20% overlap between heads (maximum spacing of 21' to 24' feet). Each zone line shall be connected to the main line with a 1" poly pipe. Each pop-up shall be connected to the zone line with 'funny pipe'.
- There shall be one surge protector in the Base Bid block and another in the Add Alternate block, or more frequency *if* the Acclima manufacturing specifications call for it. There shall be one 8' foot ground rod 5/8" diameter every 500' feet or less, and located within 24" of each decoder. The ground rod shall be connected by a #6 or # 10 copper wire.
- Each decoder and valve shall be in a green, 21" by 15" NDS 'jumbo' irrigation box blocked and secured to industry standards.
- The Acclima 2-wire system shall include a 14 gauge (blue or orange) jacketed wire.
- The contractor shall work with the City to program decoders, valves, with the Base Bid, and Add Alternate blocks on-site, following irrigation component installation. The Acclima CS3500 Installation Checklist (included in the Appendix) shall be consulted as part of part of project acceptance (where applicable), including also that spray patterns do not overlap curbing or street pavement.

Work and Staging Areas:

Confine work activities to the immediate project area, and approved traffic control and signage shall be employed for all vehicles, equipment and persons within Sunwood

Drive. Contactor is responsible for protecting pavement edge at the street from breaking and damage. No construction activity shall be performed before 7 AM nor after 7 PM Monday through Saturday. The contractor shall provide 72 hour advance notice before working on Saturday. City Council approval is required for Sunday work.

A dumpster is not anticipated to be needed on site, and no construction related disposal is to be placed in the trash receptacles along Sunwood Drive.

Warranty/Guarantee:

The Contractor warrants and guarantees to the Owner that all Work will be of good quality and free from faults or defects for 18 months and in accordance with this RFP. All defective Work may be rejected.

If required by the Owner, prior to payment, the Contractor will promptly without cost to the Owner, correct defective Work, or replace it with non-defective Work. If the Contractor does not correct such defective Work or remove and replace within a reasonable time, the Owner may have the deficiency corrected or the rejected Work removed and replaced. All direct or indirect costs of such correction or removal and replacement, including compensation for additional professional services shall be paid by the Contractor, or deducted by the Owner, all such costs from the quoted contract price.

If, instead of requiring correction or removal and replacement of defective Work, the Owner (prior to approval of final payment) prefers to accept it, they may do so. In such case, if the acceptance occurs prior to payment, a Statement shall be issued incorporating the necessary revisions, including appropriate reductions in Contract Price.

Specification References:

- Plaisted's Grower's Mix

<https://plaistedcompanies.com/horticultural-mixes/>

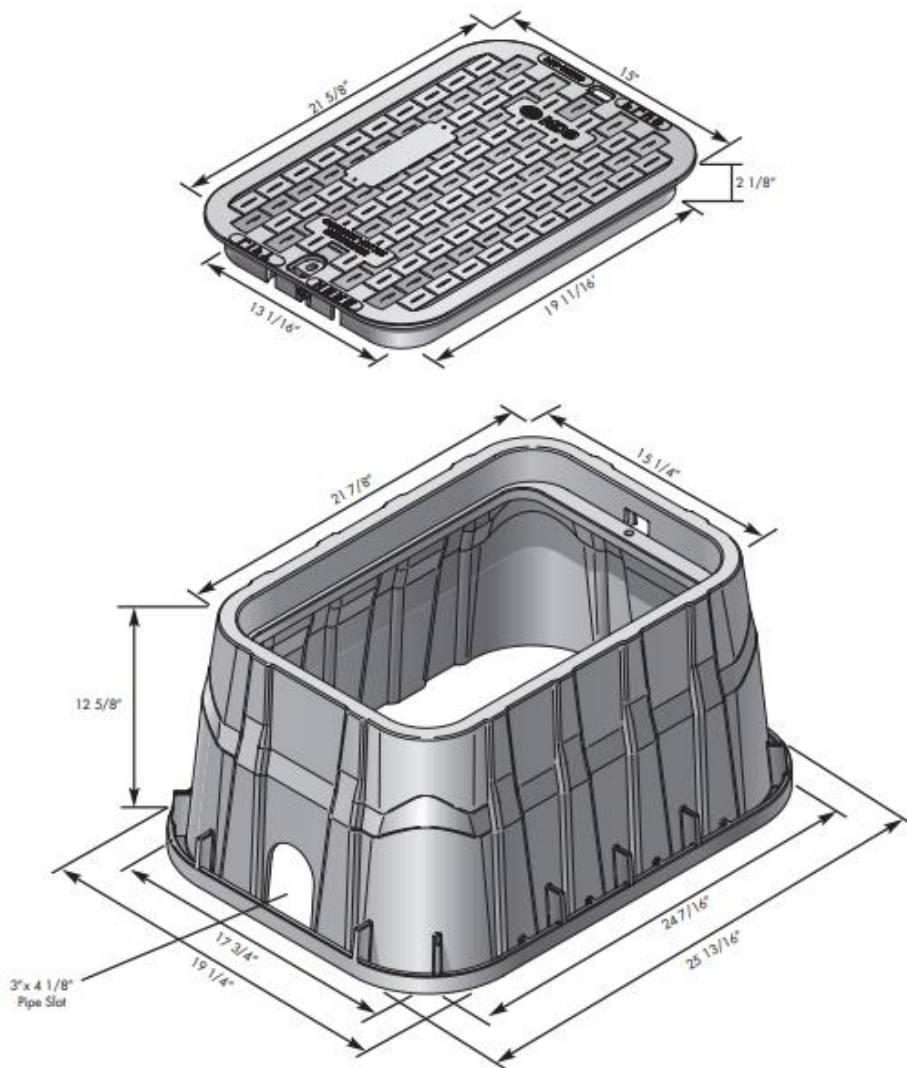


P.O. Box 332 • 11555 205th Avenue NW • Elk River, MN 55330 U.S.A.
www.plaistedcompanies.com
Tel 763.441.1100 • Fax 763.441.7782

NDS Pro Series Plus 13" x 20" Jumbo Rectangular Valve Boxes

318BC, 13" x 20" Jumbo Rectangular Valve Box

The NDS 318BC is a 13" x 20" rectangular high performance structural foam polyethylene valve box with locking brass insert, structural corrugated ribbed sidewall, corrugated overlapping lip cover, and UV inhibitor. Optional locking stainless steel bolt available.



Decoder

2 and 4 Zone Decoder

2-Wire System Accessories, connecting solenoid valves and other system devices to the 2-Wire System.



Features:

- Waterproof, submersible enclosure
- Interfaces with any 24VAC solenoid valve
- Zone activity LED for each zone
- Communications activity LED
- 14 Gauge Polyethylene insulated wire
- Automatic overload and short-circuit disconnect
- Short-circuit and overload reporting to controller
- Includes built in lightning arrestor

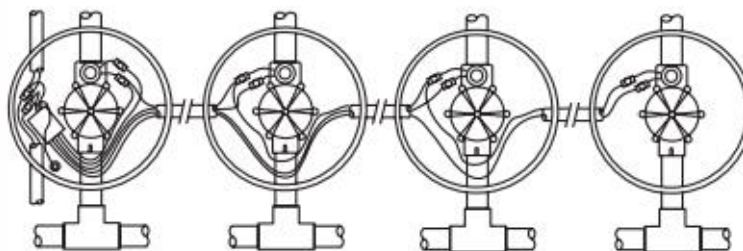
The Acclima 2 and 4 zone Decoders are used to connect 24 volt AC solenoid valves and relays to the Acclima 2-wire system. They are designed to be installed in valve boxes or underground wiring boxes where they can adapt any 24 volt AC solenoid valve or pump-start relay to the 2-wire system, thus providing communications to and control over those devices from Acclima's CS3500 controller.

NOTE:

2 and 4 Zone Adapters are best used for new system installation only. For retrofitting existing systems to the Acclima 2-Wire system use 16 or 32 zone decoders.

Specifications:

- Power Consumption (valves off): 24vac 20ma, 48w
- Load Capability per zone: 0.7 Arms
- Operating Temperature Range: -20C to 70C
- Survival Temperature Range: -40C to 85C
- 36" min wire length for 2-Wire and zone connections
- Lightning Arrestor 6KV 6KA



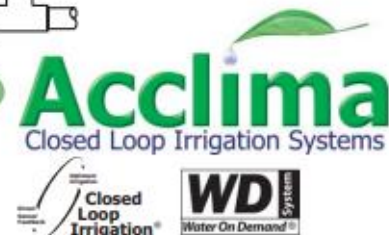
Dimensions:

Width: 3-1/2" (8.9 cm)
Length: 2-1/2" (6.3 cm)
Height: 7/8" (2.2 cm)
Wire length: 3" (7.6 cm)

Model Number#
ACC-DCR-002
ACC-DCR-004

Acclima, Inc., 2260 East Commercial Street, Meridian, Idaho 83642
Toll Free: 866-887-1470 Fax: 208-887-6368
www.acclima.com

Rev 0309



PRO-SPRAY® PRS40

To optimize MP Rotator Nozzle performance, the Pro-Spray PRS40 Sprinkler Body is pressure-regulated to 40 PSI.

KEY BENEFITS

- Industry's strongest sprinkler body for years of reliable performance
- Pressure-regulated to 40 PSI for the MP Rotator Nozzle
- Gray cap for easy field identification
- Co-molded wiper seal made from chemical- and chlorine-resistant materials
- Innovative seal design prevents cap-to-body leaks, even with a loose cap
- FloGuard Technology option eliminates water waste in the event of a missing nozzle

ADDITIONAL FEATURES

- Directional flush plug design for cleaner installation
- Interchangeable components for easier servicing, retrofits, and upgrades
- Heavy-duty spring for consistent riser retraction
- Check valve option eliminates low-head drainage

OPERATING SPECIFICATIONS

- Operational pressure range: 15 to 100 PSI
- Warranty period: 5 years

FACTORY-INSTALLED OPTIONS

- Check valve available for 4", 6", and 12" models (up to 14' of elevation)
- Reclaimed water identification
- FloGuard Technology available for pop-up models

USER-INSTALLED OPTIONS

- Check valve
 - Up to 10' of elevation for 3" model
 - Up to 14' of elevation for 4", 6", and 12" models
- Reclaimed water ID cap (P/N 458562SP)
- Snap-on reclaimed cover (P/N PROS-RC-CAP-SP)
- Shutoff cap (P/N 213600SP)
- Shutoff nozzle (P/N 916400SP)



PRS40 Reclaimed

Optional factory-installed purple reclaimed water caps



FloGuard Technology

Eliminate water waste in the event of a missing nozzle



PROS-00-PRS40
Retracted height: 4½"
Inlet size: ½"



PROS-03-PRS40
Retracted height: 5"
Pop-up height: 3"
Exposed diameter: 2¼"
Inlet size: ½"



PROS-04-PRS40-CV
Retracted height: 5½"
Pop-up height: 4"
Exposed diameter: 2¼"
Inlet size: ½"



PROS-06-PRS40-CV
Retracted height: 8¾"
Pop-up height: 6"
Exposed diameter: 2¼"
Inlet size: ½"



PROS-12-PRS40-CV
Retracted height: 16½"
Pop-up height: 12"
Exposed diameter: 2¼"
Inlet size: ½"

Site Installation

- Sensors are installed in each microclimate of the site
- Each sensor is be watered by a single host zone
- Each sensor is installed in healthy turf and free from runoff
- Sensors are buried at 3 inch depth +/-1 inch. Use a stiff wire probe or ice pick to find the sensor body
- New sites are wired with sheathed 2-conductor cable of at least 14 Gauge diameter
- All wire connections are protected by closed grease caps
- Wiring inside grease caps is secured by tightly fastened wire nuts. Don't open to inspect – ask
- Wires in valve boxes are orderly and easily discernable as to what they control

Device Configuration (at the Controller or from Irrigation Manager)

- Inspect the controller to see that it is clean and not damaged in shipping or by mishandling during installation
- Create and name watering restrictions in accordance with area and site requirements
- Install water sources, master valves and pumps and name them
- Install sensors and name them
- Install flow meters and name them
- Assign each flow meter a water source
- Set pipe diameter or custom settings for each flow meter
- Install any remaining devices and name them
- Install zones and name them. These can be reordered at any time
- Assign a Host Zone to each sensor

Zone Checklist

- Sensor zones are identified and programmed as per site specifications
- Dependent zones are assigned to sensor zones according to the microclimate
- Dependent zones are set to reasonable tracking ratios
- Timed zones have reasonable run times and frequencies
- Each zone should be assigned to the proper water source
- All zones are assigned to the appropriate watering restriction
- All zones water when manually activated
- Water distribution patterns assure efficient coverage (head to head coverage)
- Nozzle types (precipitation rates) are consistent throughout each zone
- Heads are clean with full spray patterns
- Heads are adjusted to avoid sidewalks and parking lots
- If a pressure meter is installed, verify that pressure readings are reasonable
- Set flow rates for each zone (as determined from flow meter readings or as specified if flow meter is not present)

Sensor Checklist

- Verify each sensor reads reasonable moisture, temperature and EC levels
- Identify Field Capacity and Managed Allowable Depletion levels for each sensor
- Program proper threshold settings for each sensor

Final Check

- Run the "Configuration Check" from the diagnostic screen in Irrigation Manager and resolve concerns
- Successfully run the "System Test" from the diagnostic screen in Irrigation Manager
- Verify remote connection is working (Telephone, Ethernet, or Radio)
- Verify "Voice Access" is working (where installed)
- Install the Acclima Email Reporting application and verify it is working (where desired)
- Notify site maintenance personnel of site connection information
- Create a site map with zone names and sensor locations
- File an 'Initial Configuration' reference document using the "Print configuration" option in Irrigation Manager
- Create a configuration backup using "Export Configuration" in Irrigation Manager

Tree Planting Blocks A, B, and C

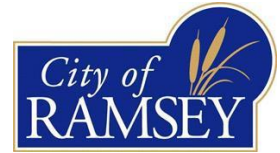


Add Alternate

Base Bid



Tree Planting Blocks D and E



**Procure and Plant 42 or 78 B & B Trees (Base Bid + Add Alternate),
with corresponding Design-build Irrigation System for Sunwood
Drive NW.**

Base Bid \$ _____.

Add Alternate \$ _____.

Total Base *and* Alternate \$ _____.

In submitting the above quote, I/We warrant the quote valid for work to be completed in the Spring, Summer, or Fall of 2023 (Contractor's choice), *or* Spring of 2024. (Bidders need only to submit this page, not the entire RFQ.)

Additionally, I/we acknowledge that the specifications and provisions above.

Contractor name _____

Owner or representative _____

Signature _____

Phone(s) _____

E-mail _____