## **IRRIGATION NOTES:**

- 1. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED BY THE IRRIGATION ASSOCIATION AND SHALL BE ON SITE TO DIRECT ALL IRRIGATION CONSTRUCTION ACTIVITIES.
- 2. ALL MATERIALS FOR THIS PROJECT SHALL BE NEW, NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT ENGINEER.
- PLANS ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. ALL EQUIPMENT SHALL BE INSTALLED IN PERVIOUS AREA (EXCEPT FOR SLEEVING) AND WITHIN THE RIGHT OF WAY, CONTRACTOR IS RESPONSIBLE ENSURING THERE ARE NO SUBGRADE CONFLICTS PRIOR TO INSTALLING PIPE.
- 4. ALL IRRIGATION COMPONENTS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, MANUFACTURER'S RECOMMENDATIONS AND CONTRACT SPECIFICATIONS.
- 5. THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE THE QUANTITIES ARE SUMMARIZED FOR THE CONVENIENCE OF THE CONTRACTOR AND OF THE ENGINEER. THE IRRIGATION SYSTEM IS A LUMP SUM BID ITEM ALL INCLUSIVE OF LABOR AND MATERIALS REQUIRED FOR A COMPLETED AND TOTALLY FUNCTIONAL, 100% COVERAGE IRRIGATION SYSTEM, INCLUDING WATER AND ELECTRICAL SERVICE CONNECTIONS.
- 6. THE OWNER SHALL BE NOTIFIED PRIOR TO START OF CONSTRUCTION
- 7. THE CONTRACTOR SHALL TAKE A WATER SAMPLE PRIOR TO START OF CONSTRUCTION TO TEST FOR WATER SALINITY LEVELS. IF SALINITY LEVELS EXCEED 1400PPM, CONTRACTOR SHALL NOTIFY THE OWNER AND REQUEST HOW TO PROCEED WITH METHOD OF PROVIDING IRRIGATION.
- 8. NO EXCAVATION SHALL TAKE PLACE UNTIL ALL EXISTING UTILITIES HAVE BEEN LOCATEO ON SITE CONTACT SUNSHINE STATE ONE CALL, TELEPHONE NUMBER 811, AND THE PUBLIC WORKS DEPARTMENT TWO BUSINESS DAYS PRIOR TO
- 9. ZONE LINES ARE DESIGNED TO PERFORM AT 30 PSI AT THE LAST HEAD FOR BUBBLER AND SPRAY ZONES.
- 10. ZONE LINE PIPING SHALL BE CLASS 200 PVC PLASTIC PIPE OR APPROVED EQUAL
- 11. THE IRRIGATION MAIN LINE SHALL BE SCHEDULE 40 PVC INSTALLED 18" BELOW THE FINISHED GRADE OF MEDIANS AND 36" BELOW FINISHED GRADE OF ROADWAY, FINISHED GRADE SHALL BE 2" BELOW TOP OF CURB, ADJACENT PAVEMENT, AND/OR SURROUNDING GROUND.
- 12. IRRIGATION SLEEVE PIPING SHALL BE SCHEDULE 40 PVC FOR TRENCHES AND DR17 (100PSI) HDPE PIPE FOR DIRECTIONAL BORE ACTIVITIES. SLEEVE SHALL BE NO LESS THAN TWICE THE DIAMETER OF THE RECEIVING PIPE
- 13. IRRIGATION LINES AND FITTINGS SHALL BE SOLVENT WELDED WITH E-2 WELD BLUE GLUE WITH WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
- 14. ALL VALVES, FILTERS, GAUGES, ETC., SHALL BE ENCLOSED IN APPROVED VALVE BOXES OF APPROPRIATE SIZE. THESE ITEMS MUST BE EASILY ACCESSIBLE FOR SERVICING AND MAINTENANCE AFTER INSTALLATION OF THE LANDSCAPING.

- 15.INCLUDE INSTALLATION OF 30MIL, 12 AWG TRACER WIRE ALONG THE MAINLINE
- 16.IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE, #12 IRRIGATION CONTROL WIRE AND #10 WHITE COMMON WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES, MAKE ELECTRICAL CONNECTIONS WITH IRRIGATION GRADE. WATERPROOF CONNECTORS, NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER. PROVIDE TWO EXTRA SPARE WIRES TO THE
- 17. FLUSH ALL LINES FOR A MINIMUM OF TEN MINUTES.
- 18. AFTER THE SATISFACTORY COMPLETION OF THE MAIN, AND BEFORE BACKFILLING, THE MAIN SHALL BE FILLED WITH WATER AND TESTED FOR PRESSURE AT THE WORKING PRESSURE WITH GAUGES AT OPPOSITE ENDS OF THE SYSTEM. MONITOR FOR TWO HOURS, THERE CAN BE NO PRESSURE LOSS. ALSO EACH ZONE SHALL BE VISUALLY TESTED FOR LEAKAGE
- 19. IRRIGATION SYSTEM SHALL BE OPERABLE FOR A MINIMUM OF 48 HOURS PRIOR TO THE LAYING OF SOD. GROUND SHALL BE THOROUGHLY SATURATED PRIOR TO THE LAYING OF SOD.
- 20.IF ANY COMPONENT OF THE IRRIGATION SYSTEM IS BROKEN DURING CONSTRUCTION, THE IRRIGATION CONTRACTOR WILL BE NOTIFIED IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL IMMEDIATELY. THE IRRIGATION CONTRACTOR SHALL IMMEDIATELY MAKE ALL NECESSARY REPAIRS TO THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL BE AWARE OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA AND ENSURE THAT NO EXISTING IRRIGATION SYSTEMS WILL BE DAMAGED. ANY DAMAGE TO AN EXISTING IRRIGATION SYSTEMS SHALL BE FULLY REPAIRED BY THE CONTRACTOR SHALL BE FULLY COMPENSATED FOR SUCH REPAIRS BY THOSE RESPONSIBLE FOR THE DAMAGE.
- 21, AT THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE: - CUT SHEETS OF ALL IRRIGATION EQUIPMENT TO BE PROVIDED - A UNIT COST BREAKDOWN OF PROPOSED IRRIGATION MATERIALS TO BE -AN INSTALLATION SCHEDULE FOR ALL IRRIGATION EQUIPMENT AT EACH AREA OF THE SITE
- 22.BEFORE THE IRRIGATION IS ACCEPTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORGANIZING AN OPERATIONAL TRAINING SESSION WITH THE OWNER'S MAINTENANCE STAFF IN THE FIELD. THIS MEETING WILL INFORM THE OWNER'S MAINTENANCE STAFF OF THE SYSTEM COMPONENTS AND FUNCTIONALITY.
- 23.UPON PROJECT ACCEPTANCE THE CONTRACTOR SHALL PROVIDE COPIES OF THE OPERATION MANUAL, MAINTENANCE SCHEDULES, WARRANTIES, AS-BUILTS, AND ANY OTHER PERTINENT INFORMATION ABOUT THE SYSTEM.

FINISHED GRADE

LATERAL PIPE -(PER NOTES & SPECS)

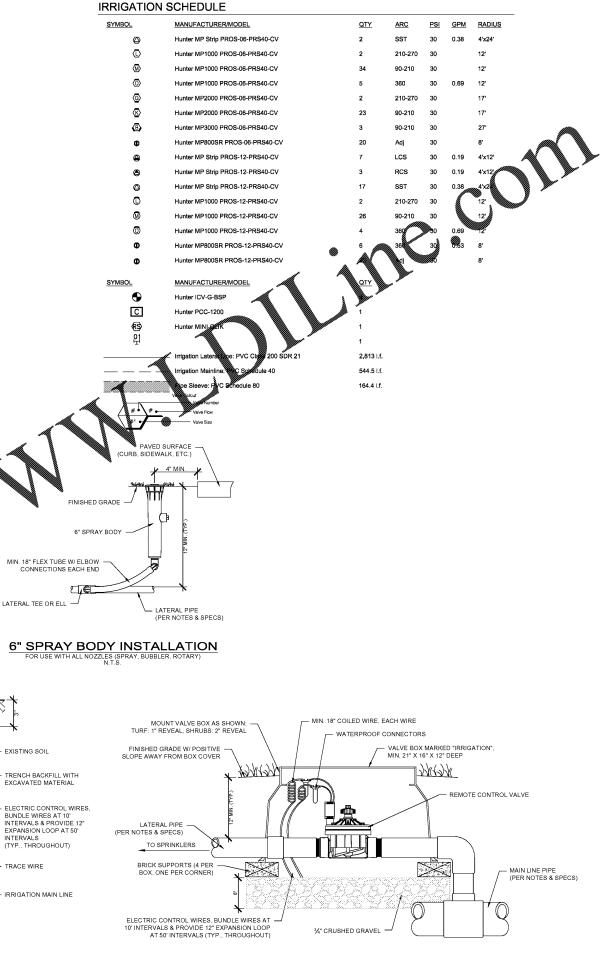
12" SPRAY BODY NOTALLATION

MIN. 18" FLEX TUBE W/ ELBOW CONNECTIONS EACH END

LATERAL TEE OR ELL

PAVED SURFACE

(CURB, SIDEWALK, ETC.)



GRAPHIC SCALE IN FEET HALF SIZE: 1" = 40

Dameir	Describes Claires			CHARDIN.		
Rev.	Date	Description	Ву	Chk'd	App'o	
5	08/13/19	PER CLIENT COMMENTS	DF	DP	J.	
4	03/24/19	BREVARD COUNTY COMMENTS	DP	J.		
3	03/04/19	BREVARD COUNTY COMMENTS	DP	т		
2	12/10/18	BREVARD COUNTY COMMENTS	DP	PM		

LOCAL OFFICE: 7175 MURRELL ROAD MELBOURNE, FL 32940

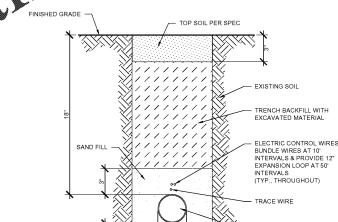
TEL. 321.242.4942 FAX. 321.242.6101

Cumberland

MICCO ROAD & US-1 BREVARD COUNTY, FL 100060192

IRRIGATION SCHEDULE, NOTES, & DETAILS

ARCH D CFG08.5



ELECTRIC CONTROL WIRES, RRIGATION MAIN LINE

THRUST BLOCKS

TRENCHING DETAIL

ARE ARE ARE OBE CONSTRUCTED WITH 3,000 PSI CONCRETE AT 48 HRS. STEEL 3 RODS WILL BE REQTO IF SURROUNDING SOIL HAS A BEARING VALUE OF LESS THAN THRUST BLOCKS REQUIRED AT ALL FITTINGS AND DIRECTION CHANGES ON MAIN

LINES 3" OR GREATER. NOTE THRUST BLOCK LOCATIONS ON AS-BUILT DRAWINGS

REMOTE CONTROL GLOBE VALVE INSTALLATION