ADDENDUM NO. 1

GRANGER PARK

CITY OF LAGRAGE LAGRANGE, GEORGIA

DRAWINGS

Add

SHEET IR1.01 – IR1.03

Bidder Must Acknowledge Receipt of this Addendum on Bid Form

August 18, 2021 Barge Design Solutions, Inc. 1201 Front Ave, Suite F Columbus, Georgia 31901 706-321-4590

08/13/21 Project # 3643212 ADD-1-1

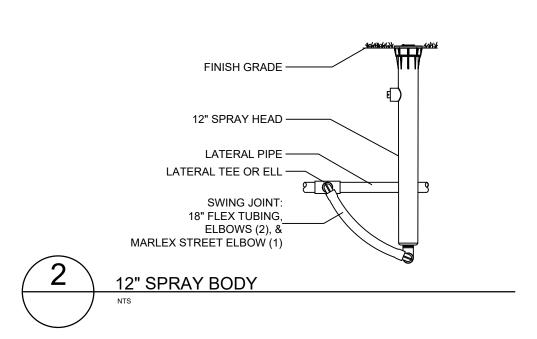


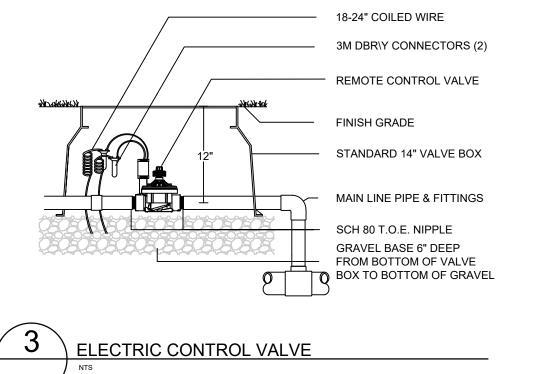
PARK LAGRANGE IRRIGATION

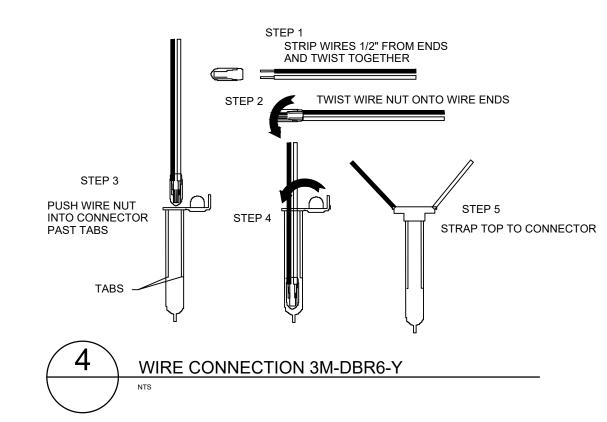
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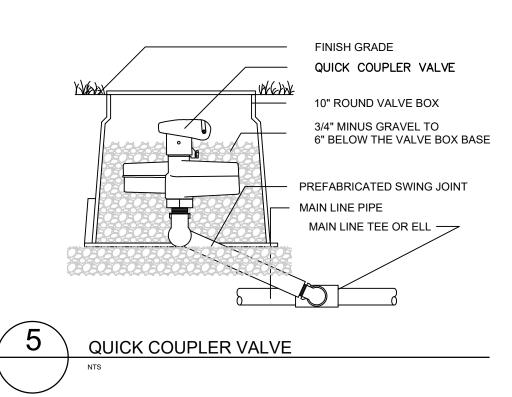
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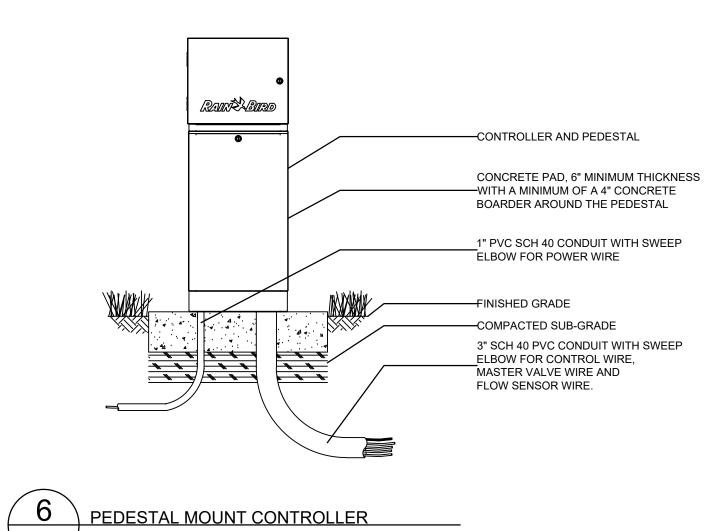
IR1.01 PROJ. NO. 3643212

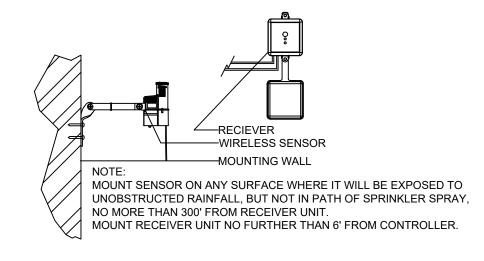




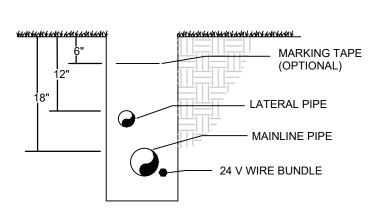




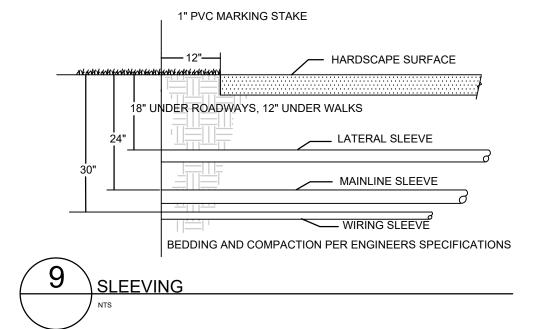








8 TRENCH, PIPE AND WIRE



GENERAL NOTES

- ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE, IF TRENCHING MUST BE DONE WITHIN TREE DRIPLINE FOLLOW TREE PRESERVATION GUIDELINES FOR THE PROJECT OR LOCAL MUNICIPALITY
- 2. MAINLINE TO HAVE MINIMUM OF 18" OF COVER AND A MINIMUM OF 18" OFF OF THE HARDSCAPE
- 3. LATERALS TO HAVE MINIMUM OF 12" OF COVER AND A MINIMUM OF 12" OFF OF THE HARDSCAPE
- OF THE HARDSCAPE

 4. NO ROCKS, BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL
- 5. ALL PIPE TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS
- SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS
 CONTROL WIRE TO BE 14 GA UL APPROVED, SINGLE CONDUCTOR, PE JACKETED
- 8. WIRE SPLICES TO BE DONE AS PER DETAILS
- 9. ALL WIRE SPLICES OUSIDE OF CONTROL VALVE BOX TO BE IN 10" VALVE BOX
- 10. WIRE TO BE COLOR CODED, RED FOR POWER AND WHITE FOR COMMON11. CONTRACTOR SHALL INSTALL MANUFACTURES GROUNDING EQUIPMENT
- ON BOTH THE POWER AND OUTPUT SIDES

 12. CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE
- CONNECTION BY WRAPPING WIRE AROUND 3/4" PIPE 12 TIMES

 13. AT EACH CHANGE IN MAINLINE DIRECTION CONTRACTOR TO INSTALL A 30" LOOP OF EXTRA WIRE
- 14. WIRE TO BE BUNDLED WITH ZIP-TIE EVERY 15'
- 15. SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO NON-IRRIGATED AREAS
- 16. ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS FOLLOWS
- 14" RECTANGULAR FOR EACH ELECTRIC CONTROL VALVE
 17. SPRINKLERS TO BE INSTALLED 12" FROM FOUNDATIONS AND 2" FROM
- HARDSCAPE
- 18. CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED
- TO MAINTAIN PROPER COVERAGE

 19. ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS
- 20. ALL VALVES, QUICK COUPLER VALVES, WIRE SPLICES TO BE IN
- LANDSCAPED BEDS WHEREVER POSSIBLE
 21. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF
- AREA TO BE IRRIGATED, MAKE ADJUSTMENTS AS NECESSARY
 22. CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES
- REPAIRING ANY DAMAGES AT HIS OWN COST 23. PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT
- TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS 24. ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED
- TO THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION
- 25. CONTRACTOR TO PROVIDE 1 YEAR WARRANTEE OF ALL PRODUCTS AND
- WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START-UP
- 26. CONTRACTOR TO PROVIDE OWNER AND OR LANDSCAPE ARCHITECT RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION
- 27. INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT
- 28. CLEANUP AND DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT, CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R.O.W.

CONTROLLER INSTALLATION NOTES

 IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE.
 PROVIDE 120VAC 20 AMP POWER TO JUNCTION BOX IN THE CONTROLLER

PEDESTAL.

3. IRRIGATION CONTRACTOR TO HARD WIRE CONTROLLER TO POWER

SUPPLY AS PER PREVAILING CODE.

4. CONTROLLER TO BE SECURELY ATTACHED TO THE CONCRETE PEDESTAL

BASE USING METALLIC FASTENERS MADE FOR CONCRETE.

5. ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC ELECTRICAL CONDUIT.

6. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL POTENTIAL WALL PENETRATIONS AND THE SEALING OF THOSE PENETRATIONS.
7. CONTROLLER TO BE GROUNDED AS PER MANUFACTURERS RECOMMENDATIONS.

VALVE SCHEDULE

INSTALLATION

| - | | | | | |
|--------|---------------|--------|-------------|-------|------------|
| NUMBER | MODEL | SIZE | TYPE | GPM | PRECIP |
| C1 | Rain Bird PEB | 1" | Shrub Spray | 21.12 | 1.6 in/h |
| C2 | Rain Bird PEB | 1-1/2" | Shrub Spray | 30.83 | 1.4 in/h |
| C3 | Rain Bird PEB | 1" | Bubbler | 12.00 | 30.64 in/h |
| C4 | Rain Bird PEB | 1-1/2" | Turf Rotary | 34.41 | 0.48 in/h |
| C5 | Rain Bird PEB | 1-1/2" | Shrub Spray | 32.95 | 1.37 in/h |
| C6 | Rain Bird PEB | 1" | Turf Spray | 20.89 | 1.53 in/h |
| C7 | Rain Bird PEB | 1" | Turf Spray | 22.10 | 1.45 in/h |
| C8 | Rain Bird PEB | 1" | Shrub Spray | 11.64 | 0.66 in/h |
| C9 | Rain Bird PEB | 1" | Shrub Spray | 4.23 | 1.15 in/h |
| C10 | Rain Bird PEB | 1" | Turf Spray | 24.70 | 1.48 in/h |
| C11 | Rain Bird PEB | 1-1/2" | Shrub Spray | 26.44 | 1.84 in/h |
| C12 | Rain Bird PEB | 1" | Turf Rotary | 23.66 | 0.42 in/h |
| C13 | Rain Bird PEB | 1-1/2" | Turf Spray | 30.25 | 1.67 in/h |
| C14 | Rain Bird PEB | 1" | Shrub Spray | 9.35 | 1.43 in/h |
| | | | | | |

DESIGN SOLUTION

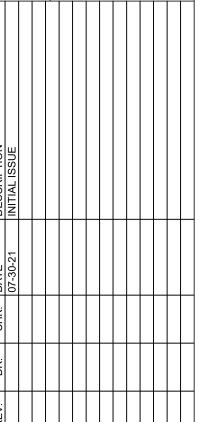


CITY OF LAGRANGE

GRANGER PARK
LAGRANGE, GEORGIA

MOIL

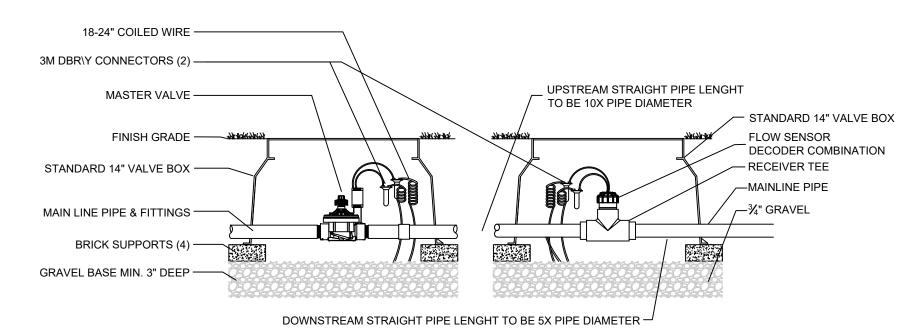
IRRIGA⁻



IR1.02

PROJ. NO. 3643212





MASTER VALVE FLOW SENSOR

CRITICAL ANALYSIS

| Generated: | 2021-08-17 10:23 |
|--|------------------------|
| P.O.C. NUMBER: 01 Water Source Information: | Irrigation Meter |
| FLOW AVAILABLE | |
| Water Meter Size: | 1-1/2" |
| Flow Available: | 40.32 gpm |
| PRESSURE AVAILABLE | |
| Static Pressure at POC: | 90.00 PSI |
| Elevation Change: | 5.00 ft |
| Service Line Size: | 1 1/2" |
| Length of Service Line: | 20 ft |
| Pressure Available: | 84.00 psi |
| DESIGN ANALYSIS | |
| Maximum Station Flow: | 34.41 gpm |
| Flow Available at POC: | 40.32 gpm |
| Residual Flow Available: | 5.91 gpm |
| Critical Station: | C12 |
| Design Pressure: | 40.00 psi |
| Friction Loss: | 4.18 psi |
| Fittings Loss: | 0.42 psi |
| Elevation Loss: | 0.00 psi |
| Loss through Valve: | 3.89 psi |
| Pressure Req. at Critical Station: | 48.48 psi |
| Loss for Fittings: | 0.19 psi |
| Loss for Main Line: | 1.93 psi |
| Loss for POC to Valve Elevation: | 0.00 psi |
| Loss for Backflow: | 4.25 psi |
| Loss for Master Valve: | 0.65 psi |
| Loss for Water Meter: | 1.17 psi |
| Critical Station Pressure at POC: | 56.67 psi |
| | |
| Pressure Available: Residual Pressure Available: | 84.00 psi 27.33 psi |



IRRIGATION PLAN
CITY OF LAGRANGE
GRANGE, GEORGIA
LAGRANGE, GEORGIA

IR1.03

PROJ. NO. 3643212