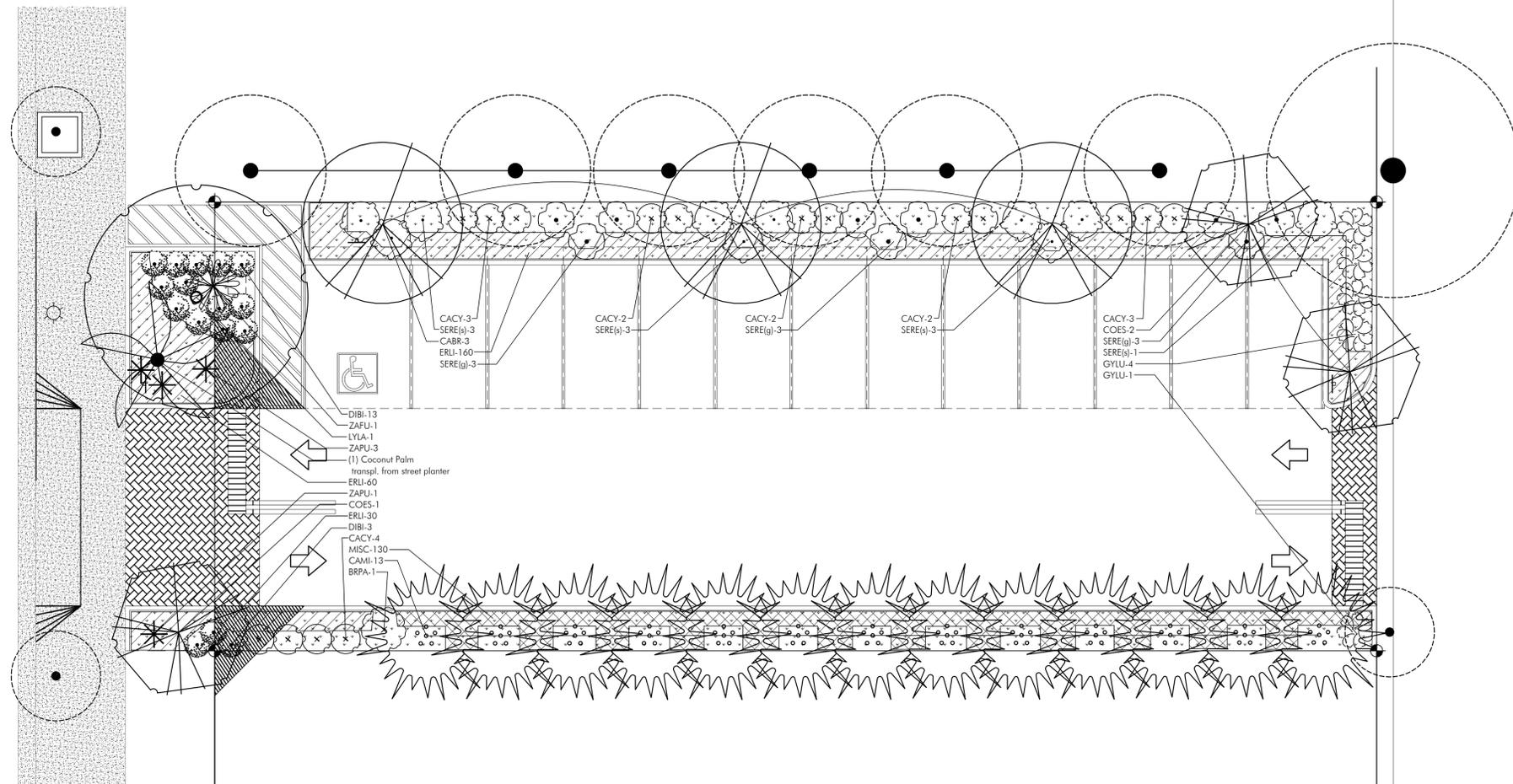




COLLINS AVENUE



PLANTING PLAN

SCALE: 1/8"=1'-0"



**CITY OF MIAMI BEACH  
LANDSCAPE LEGEND**

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS  
Zoning District\_RPS-3 Lot Area\_6,500 s.f. Acres\_0.15

	REQUIRED/ ALLOWED	PROVIDED
<b>OPEN SPACE</b>		
A. Square feet of required Open Space as indicated on site plan: Lot Area = 6,500 s.f. x _____ % = _____ s.f.		1378
B. Square feet of parking lot open space required as indicated on site Number of parking spaces _____ x 10 s.f. parking space =	130	130
C. Total square feet of landscaped open space required: A+B=		1508
<b>LAWN AREA CALCULATION</b>		
A. Square feet of landscaped open space required		
B. Maximum lawn area (sod) permitted= _____ 20 _____ % x 1508 s.f.	301	0
<b>TREES</b>		
A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements= _____ 22 _____ trees x _____ 0.15 _____ net lot acres - number of existing trees=	4	4
B. % Natives required: Number of trees provided x 30% =	2	2
C. % Low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	2	7
D. Street Trees (maximum average spacing of 20' o.c.) _____ linear feet along street divided by 20'=	3	2
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): _____ linear feet along street divided by 20'=	0	0
<b>SHRUBS</b>		
A. Number of shrubs required: Sum of lot and street trees required x 12=	84	312
B. % Native shrubs required: Number of shrubs provided x 50%=	42	294
<b>LARGE SHRUBS OR SMALL TREES</b>		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	9	18
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=	5	5

PLANT LIST				
KEY	PLANT NAME	QTY.	UT.	SIZE
<b>TREES</b>				
CABR	Calliophyllum brasiliense ...Brazilian Beautyleaf	5	ea.	12' tall x 6' spread min, 2' cal. Min
COES	Conocarpus erectus "Sericus" ...Silver Buttonwood	2	ea.	12' tall x 5' spread min, 2" cal. min, 4' CT
LYLA	Lysiloma latisiliqua ...Wild Tamarind	1	ea.	14' tall x 6' spread, 3" cal., 4' CT
<b>PALMS</b>				
KEY	PLANT NAME	QTY.	UT.	SIZE
CAMI	Caryota mitis (as large shrub) ...Fishtail Palm	13	ea.	12' tall OA x 4' spread min., multi-trunk, full to ground
<b>SHRUBS AND GROUNDCOVERS</b>				
KEY	PLANT NAME	QTY.	UT.	SIZE
GYLU	Gymnanthes lucida (as large shrub) ...Crabwood	5	ea.	6' tall x 4' spread min, full to ground
DIBI	Dietes bicolor ...Fortnight Lily	16	ea.	3 gal cans, full, install approx 30' o.c. as shown
ZAFU	Zamia furfuracea ...Cardboard Palm	1	ea.	36x36"
ZAPU	Zamia pumila ...Coontie	4	ea.	24x24"
ERLI	Ermodea littoralis ...Golden Creeper	250	ea.	18x18", 18" o.c.
CACY	Capparis cynophallophora ...Jamaica Caper	16	ea.	30x24", install approx 36' o.c. as shown
MISC	Microsorium scolopendria ...Wart Fern	130	ea.	3 gal cans, full, 18" o.c.
SERE(s)	Sereoa repens ...Saw Palmetto	10	ea.	30x30", silver form, install approx 48' o.c.
SERE(g)	Sereoa repens ...Saw Palmetto	9	ea.	30x30", green form, install approx 48' o.c.
BRPA	Brunfelsia pauciflora ...Yesterday, Today, and Tomorrow	1	ea.	36x30", install approx 48' o.c. as shown
<b>MISCELLANEOUS</b>				
sod	St. Augustine "Floratum"	as req.	s.f.	solid sod
	Planting Soil 80% Silica Sand 20% Everglades Muck	95	c.y.	Excavate top 18" of planting area and backfill with planting soil
	Shredded Mulch	10	c.y.	



ASTA PARKING  
121 COLLINS AVENUE  
MIAMI BEACH, FLORIDA 33139

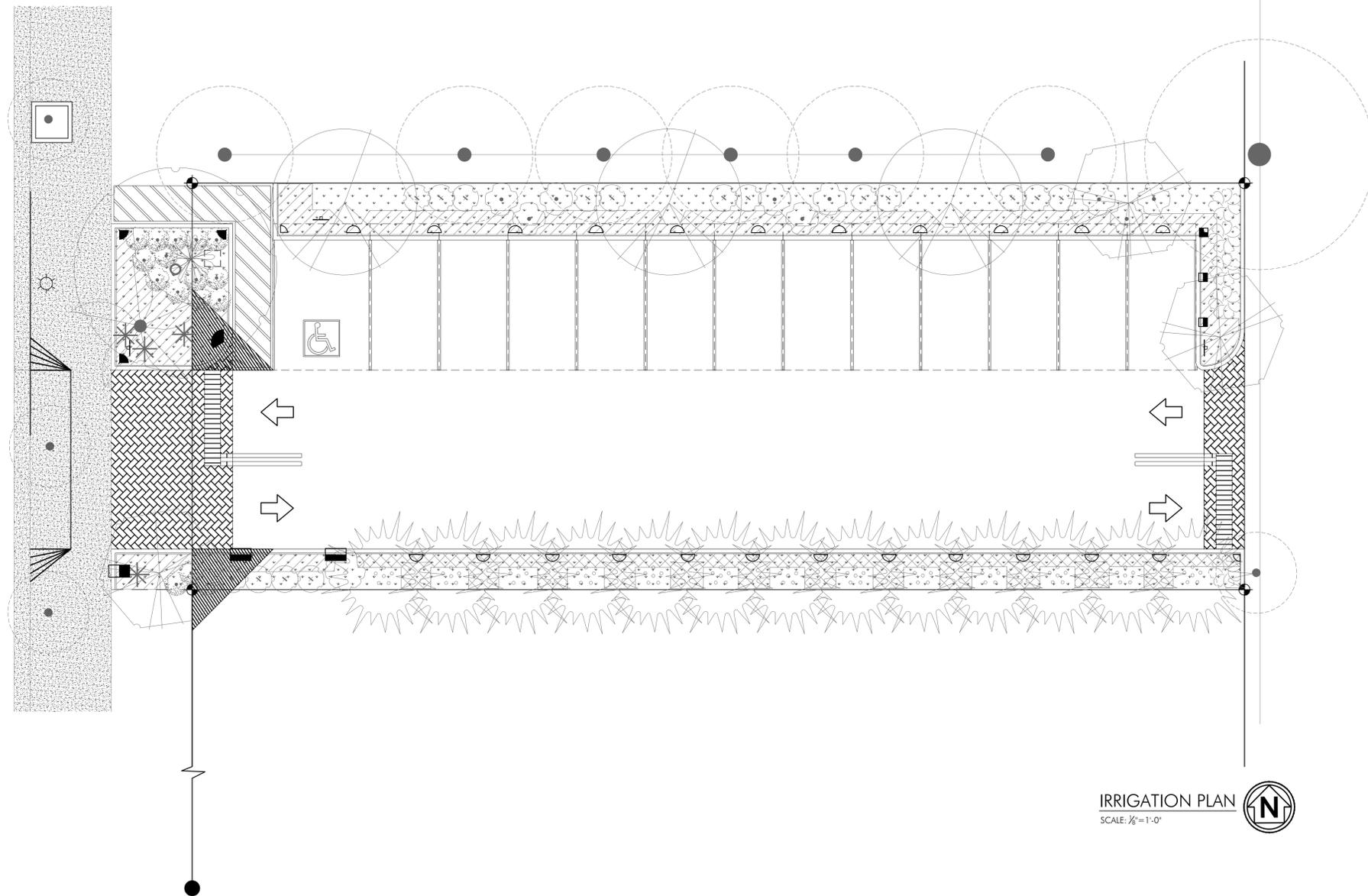
DATE	REVISION



**IRRIGATION MATERIALS LIST**

KEY	ITEM	QTY.
—	PVC laterals & mains shall be schedule 40 PVC (sized as shown on plans)	as required
---	MAIN	as required
====	PVC sleeves shall be Schedule 40 PVC (sized 2 sizes larger than the pipe running through it)	as required
	Flexible PVC or Polypipe (for swing joints)	as required
WM	2" WATER METER (See Civil Plans)	1
EC	Electric Controller RAINBIRD ESP-Me Series 4 station Controller	1
▲	MINI-Click II Rain Sensor (locate in area of free rainfall)	1
●	RAINBIRD 200-PESB 2" Electromechanical Solenoid Control Valve	1
	Irrigation Control Wire	as required
	RAINBIRD Spray Heads 1800 @ 30 PSI Series w/MPR nozzles	as required
	4" pop-up in grass areas	
	12" pop-up on risers in shrub beds	
15-T	(1.23 gpm)	
15-Q	(.92 gpm)	
15-ss	(1.21 gpm)	
15-est	(.61 gpm)	
10-H	(.79 gpm)	
10-Q	(.39 gpm)	
5-TQ	(.33 gpm)	
5-H	(.20 gpm)	

COLLINS AVENUE



IRRIGATION PLAN  
SCALE: 1/8" = 1'-0"



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ASTA PARKING  
121 COLLINS AVENUE  
MIAMI BEACH, FLORIDA 33139

DATE	REVISION

DWG. TITLE  
SITE PLAN & DETAILS  
SCALE  
VARIES  
PROJECT NO.  
2016-24  
DATE  
08-02-17  
SHEET NUMBER  
IR-101

**GENERAL NOTES:**

1. **SCOPE OF WORK:** The Contractor shall furnish all labor, machinery, tools, supplies, and equipment necessary to construct and provide an operating system, as indicated in the Plans. The work shall include, but not be limited to, furnishing materials (pipe, valves, sprinkler heads, fittings, controllers, electrical, wire and fittings, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfilling, compaction, repair of road or pavement surfaces, controller and low voltage feed to the valves, clean-up, maintenance and guarantee, and as-built plans.

2. Contractor shall coordinate with General Contractor or other pertinent Contractors on the job to insure that sleeves are provided and installed under hand surfaces to allow access to all areas to be irrigated. All sleeves shall be constructed of Schedule 40 PVC. Bury all sleeves a minimum of 24" below the surface. Sleeve to be 2 times the size of the pipe running through it. Sleeve shall extend 24" past the edge of pavement into the area to be irrigated.

3. **GUARANTEE:** The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

4. **REPAIR UTILITIES:** The Contractor shall be responsible to verify the location of all utilities by hand excavation or other appropriate measures before performing any work that may result in damage to utilities structures, or property. The Contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to his operations. All costs involved in disruption of service and repairs due to negligence on part of the Contractor shall be his responsibility.

5. **AS-BUILT DRAWINGS:** Prints of the plans will be supplied to the Contractor for recording "as-built" information. Immediately upon installation of any work which deviates from what is shown on the Plans, the Contractor shall clearly indicate such changes in red pencil on the prints. Such changes shall include, but not be limited to, changes in (1) materials; (2) sizes of material; (3) location; and (4) quantities.

6. The entire installation shall fully comply with all applicable local and state codes and ordinances. The Contractor shall take out all required plumbing and electrical applications and permits, arrange for all necessary inspections and shall pay all fees and expenses in connection with same as part of work under the contract.

7. **UNIT PRICES:** The successful bidder shall furnish, to the Owner, a unit price breakdown for all materials. The Owner may at his own discretion, add to or delete from the materials, using the unit price breakdown submitted to and accepted by the Owner.

8. **MAINTENANCE PERIOD:** The irrigation system shall be maintained for a period of 90 days after final acceptance of installation. Maintenance shall include checking of the system 2 times per week. Contractor shall be responsible to replace/repair any broken or malfunctioning parts of the system including those damaged by accidents or vandalism. Repairs shall be made immediately at the time of inspection or when notified by the Landscape Architect.

9. The irrigation system shall provide 100% coverage with a minimum of 90% overlap of water spray.

10. The system is design to provide sprinkler precipitation rates that are nearly equal in each zone. Mating of sprinklers with widely varying precipitation rates in a zone will not be accepted.

11. All pipe shall be made of Schedule 40 PVC, except flexible PVC (or Toro funny pipe) for flexible swing joint and Schedule 80 galvanized steel pipe for all above ground fittings. Pipe locations shall be adjusted in the field. When laying out mains and laterals, locate pipe near edges of pavement or against buildings wherever possible, to allow space for plant rootballs. Coordinate pipe locations with plantings. Bury all mains 18" below surface and laterals 12". Depth shall be measured to top of pipe.

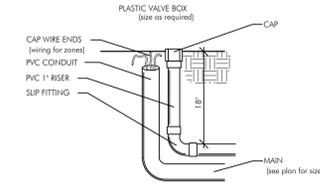
12. Keep pop-up sprinkler heads a minimum of 8" from edges of pavement and curbing, and heads on risers a minimum of 18", or as indicated in the plans.

13. All heads located in shrub or groundcover beds shall be installed on a riser as per details in the plans. All other heads shall be installed on a swing joint as per details in the plans.

14. Place irrigation control wire in conduit in the same trench as mains and under the main. ASI wire shall be #14 or larger solid copper U.L. approved underground direct burial cable and shall be continuous with no splices from controller to solenoid valve.

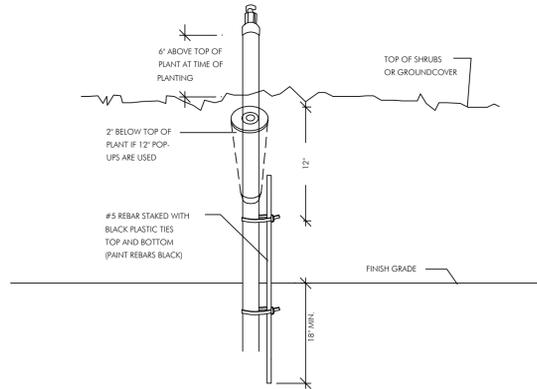
15. Valve locations are schematic and shall be adjusted in the field. Each valve shall be in a separate valve box (10' x 16" min.). When grouping valve boxes in grass or groundcover areas, set boxes a minimum of 12" apart to allow grass or groundcover to grow between them. When possible, hide valve boxes in shrub beds, a minimum of 12" from edges of beds. Set all valve boxes, concrete or plastic, in ground with cover flush with finish grade, and level, with a minimum of 6" of pea gravel at the bottom of the box, with at least 2" of clearance from the bottom of the valve to the top of the gravel.

16. **TESTING:** Notify the Landscape Architect in writing when testing will be conducted. Conduct test in the presence of the Landscape Architect. After all PVC assembly is completed the lines shall be flushed to insure that no rocks, sand, or other foreign debris remains in the lines. The mains shall be filled with water and all outlets shall be capped and plugged. The main shall be pressurized to 100 PSI for a minimum of one hour. No section of the main will be approved if the pressure drops more than 5 PSI at the end of the one hour period. Leaks shall be repaired immediately and the system shall be re-tested until found satisfactory by the Landscape Architect.



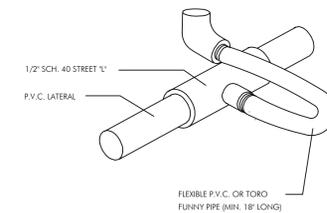
**DETAIL OF STUB-OUT FOR FUTURE USE**

N.T.S.



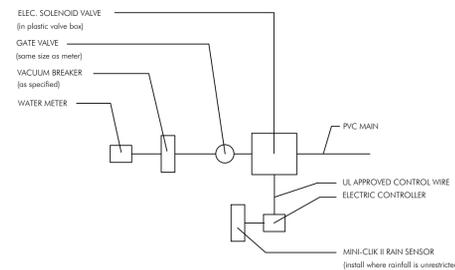
**SPRINKLER ON RISER DETAIL FOR SHRUB AREAS**

N.T.S.



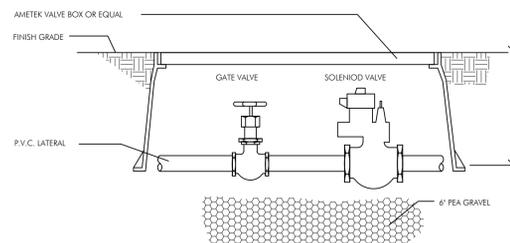
**FLEXIBLE SWING JOINT DETAIL**

N.T.S.



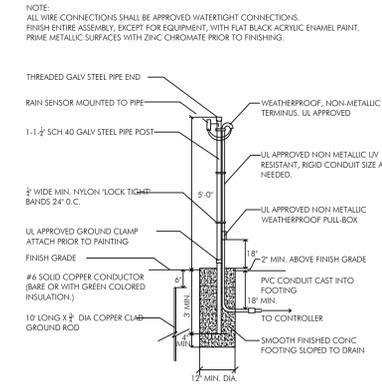
**CONNECTION TO METER DETAIL**

N.T.S.



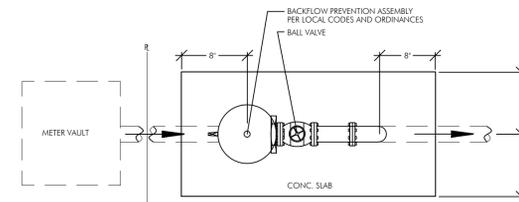
**TYPICAL SOLENOID VALVE ASSEMBLY**

N.T.S.



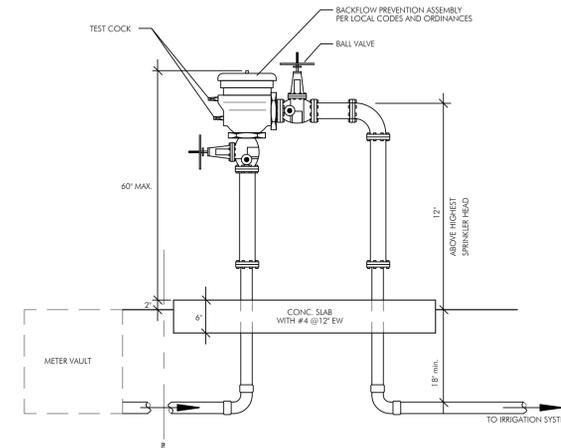
**RAIN SENSOR DETAIL**

N.T.S.



**PLAN VIEW**

N.T.S.



**ELEVATION VIEW**

N.T.S.

**BACKFLOW PREVENTION ASSEMBLY DETAIL IRRIGATION SYSTEM ONLY**

N.T.S.



DATE	REVISION