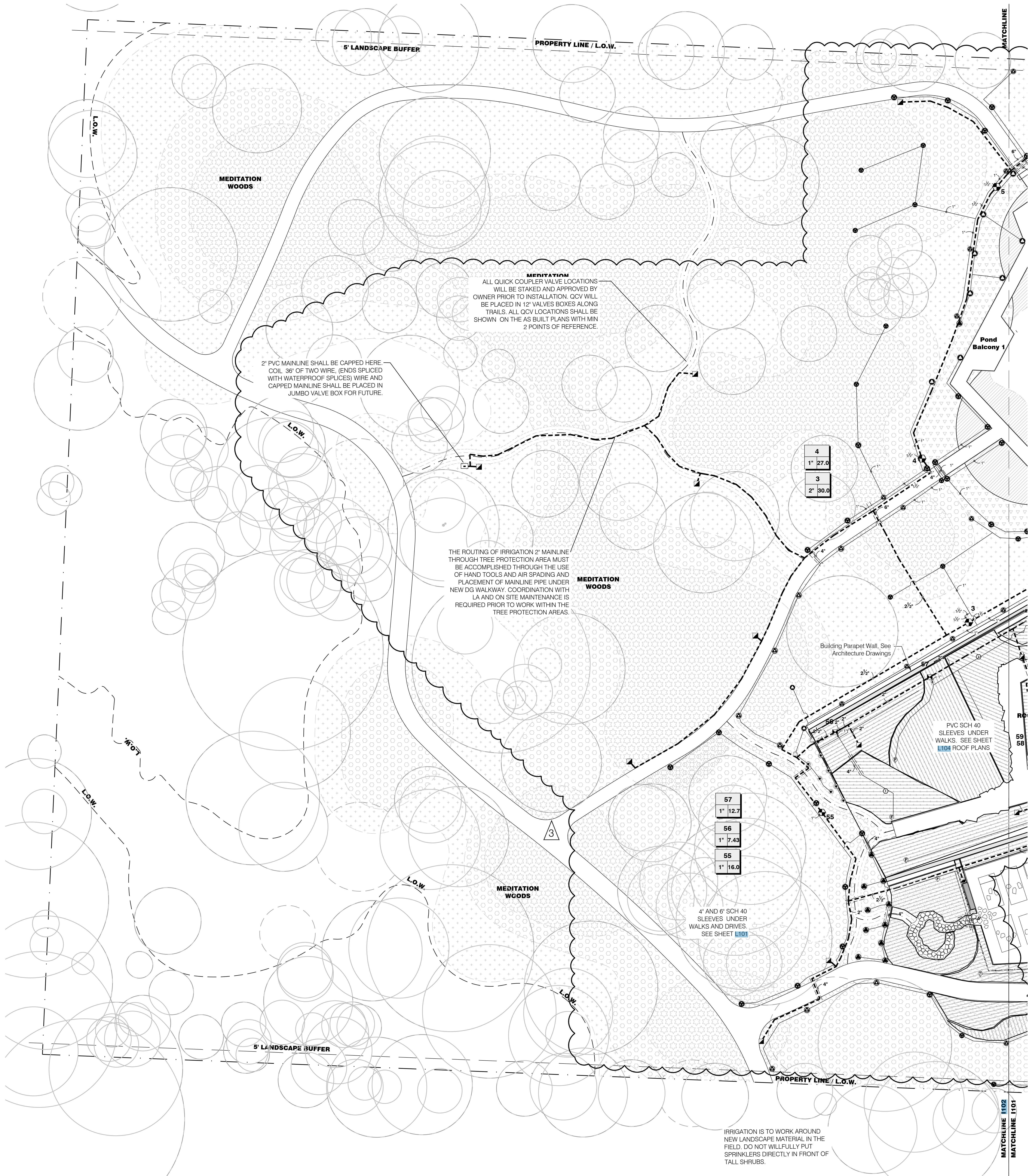




IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL
	RAINBIRD 1812-SAM W/ 5' STRIP SPRAY
	RAINBIRD 1812-SAM W/ ADJUSTABLE ARC
	RAINBIRD 1804-SAM W/ MP1000
	RAINBIRD 1804-SAM W/ MP2000
	RAINBIRD 1804-SAM W/ MP3000
	RAINBIRD 1804-SAM W/ MP3500
	RAINBIRD 1812-SAM W/ MP STRIP
	RAINBIRD 1812-SAM W/ MP1000
	RAINBIRD 1812-SAM W/ MP2000
	RAINBIRD 1812-SAM W/ MP3000
	RAINBIRD 1812-SAM W/ MP3500
	RAINBIRD 1812-SAM W/ MP800SR
	RAINBIRD 1812-SAM W/ MP815
	RAINBIRD 5004-SAM ROTOR
	RAINBIRD 5004-SAM ROTOR
	RAINBIRD 5004-SAM ROTOR
	RAINBIRD 5004-SAM ROTOR
	RAINBIRD X2C-100-LC 1" DRIP VALVE KIT
	RAINBIRD X2C-150-LCS 1.5" DRIP VALVE KIT
	FLUSH VALVE
	OPERATIONAL INDICATOR
	AREA TO RECEIVE DIPLINE RAIN BIRD XFD-06-18
	RAINBIRD PEB-100 1"
	RAINBIRD PEB-150 1.5"
	RAINBIRD -5RC 1"
	SHUT OFF VALVE
	BUCKNER-SUPERIOR 3300 3" NORMALLY OPEN MASTER VALVE
	RAINBIRD LXVM TWO-WIRE CONTROLLER
	RAINBIRD RSD RAIN SENSOR
	FLOMEC QS200 FLOW SENSOR
	WATER METER
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 3"
	PIPE SLEEVE: PVC SCHEDULE 40 2"
	PIPE SLEEVE: PVC SCHEDULE 40 4"
	PIPE SLEEVE: PVC SCHEDULE 40 6"
	Valve Callout
	Valve Number
	Valve Flow
	Valve Size

DESIGN REQUIREMENT

Generated: 2024-07-31 14:56

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE
Point of Connection Size: 3"
Flow Available 170.11 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 80 PSI
Pressure Available: 80 PSI

DESIGN ANALYSIS	
Maximum Multi-valve Flow:	80 GPM
Flow Available at POC:	170.11 GPM
Residual Flow Available:	90.11 GPM

Critical Station:	7
Design Pressure:	45 PSI
Friction Loss:	0.76 PSI
Fittings Loss:	0.08 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3 PSI
Pressure Req. at Critical Station:	48.8 PSI
Loss for Fittings:	1.19 PSI
Loss for Main Line:	11.9 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Loss for Master Valve:	2.38 PSI
Critical Station Pressure at POC:	64.4 PSI
Pressure Available:	80 PSI
Residual Pressure Available:	15.6 PSI

RELATED CASES:
CASE # 21-DDP-0106; WMM 825021 1171

801 South Spring Street
Little Rock, AR 72201
501.378.0878 office
509 W. Spring St. Suite 150
Fayetteville, AR 72701
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McClintland Consulting Engineers, Inc.
1580 E STEARNS ST
FAYETTEVILLE, AR 72703
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LANDSCAPE
OSD
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MartinMartin Consulting Engineers
5008 SOUTH WALTON BLVD., STE 212
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LEXENA, KS 66214
P: 913.860.1197

SUSTAINABILITY
SOM
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SIGNAGE - WAYFINDING
TWO TWELVE
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NEW YORK, NY 10001
P: 212.254.8670

FOOD SERVICE
JME HOSPITALITY
6505 SW FINES DR., SUITE B210
THE WOODLANDS, TX 77380
P: 800.641.2222

WATER FEATURES
OTL
2150 S. TOWNE CENTER, SUITE 100
ANAHEIM, CA 92806
P: 714.637.4747

IRRIGATION
WC3 DESIGN
11A ROBINSON MANAGER BLVD.
MOORESDALE, PA 16906
P: 844.231.7042

PSW Job Number:
993A



AWSOM
Bentonville, AR

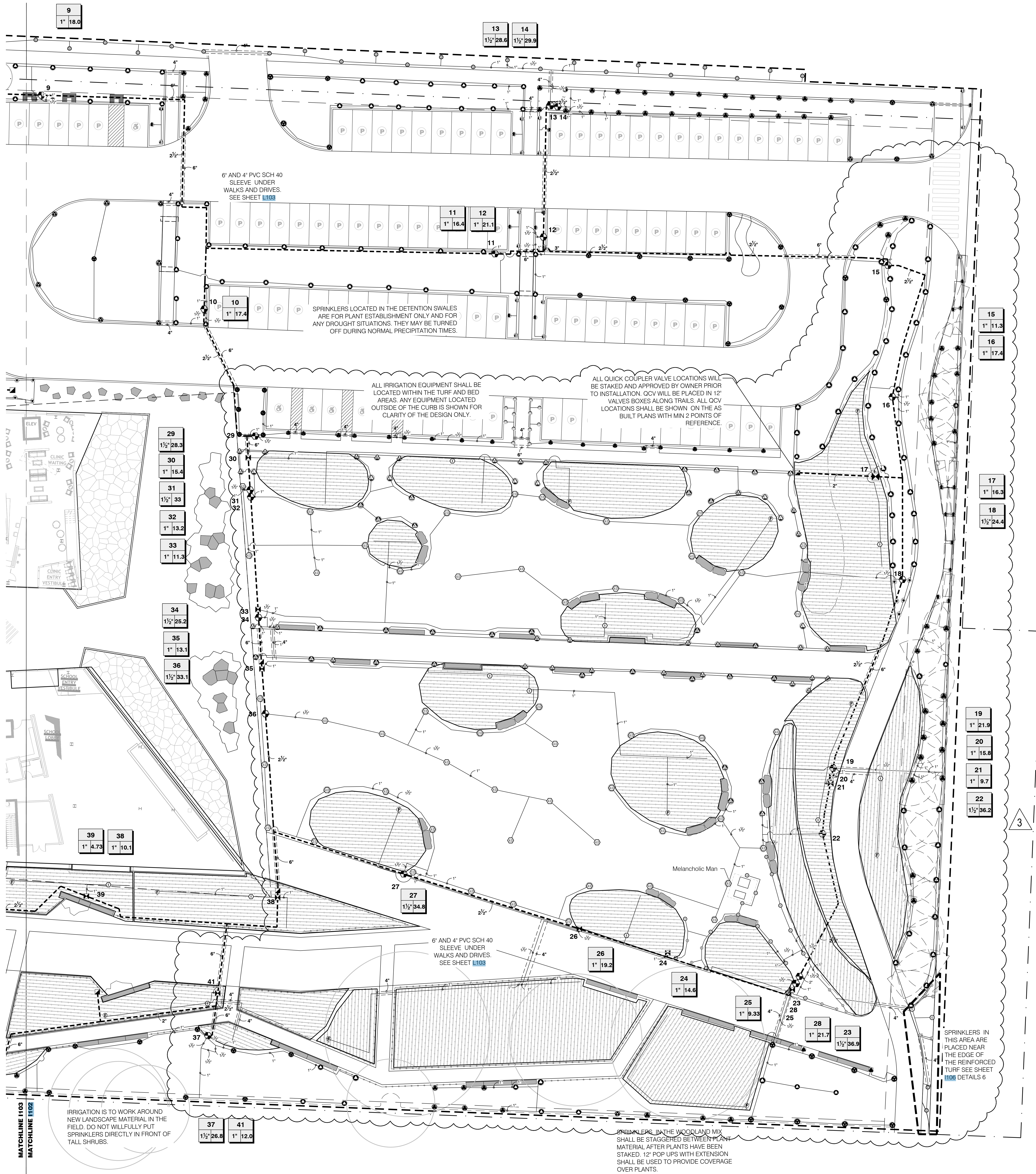
Issue Date:
02.24.2023

REVISIONS		
NUMBER	DATE	DESCRIPTION
1	02/24/2023	ADDENDUM 1
2	07/24/2024	ASB/DB
3	11/05/2024	PR/DB

Contents:
GROUND FLOOR
IRRIGATION
PLAN-1

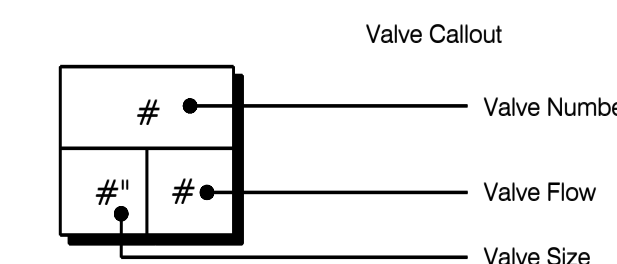


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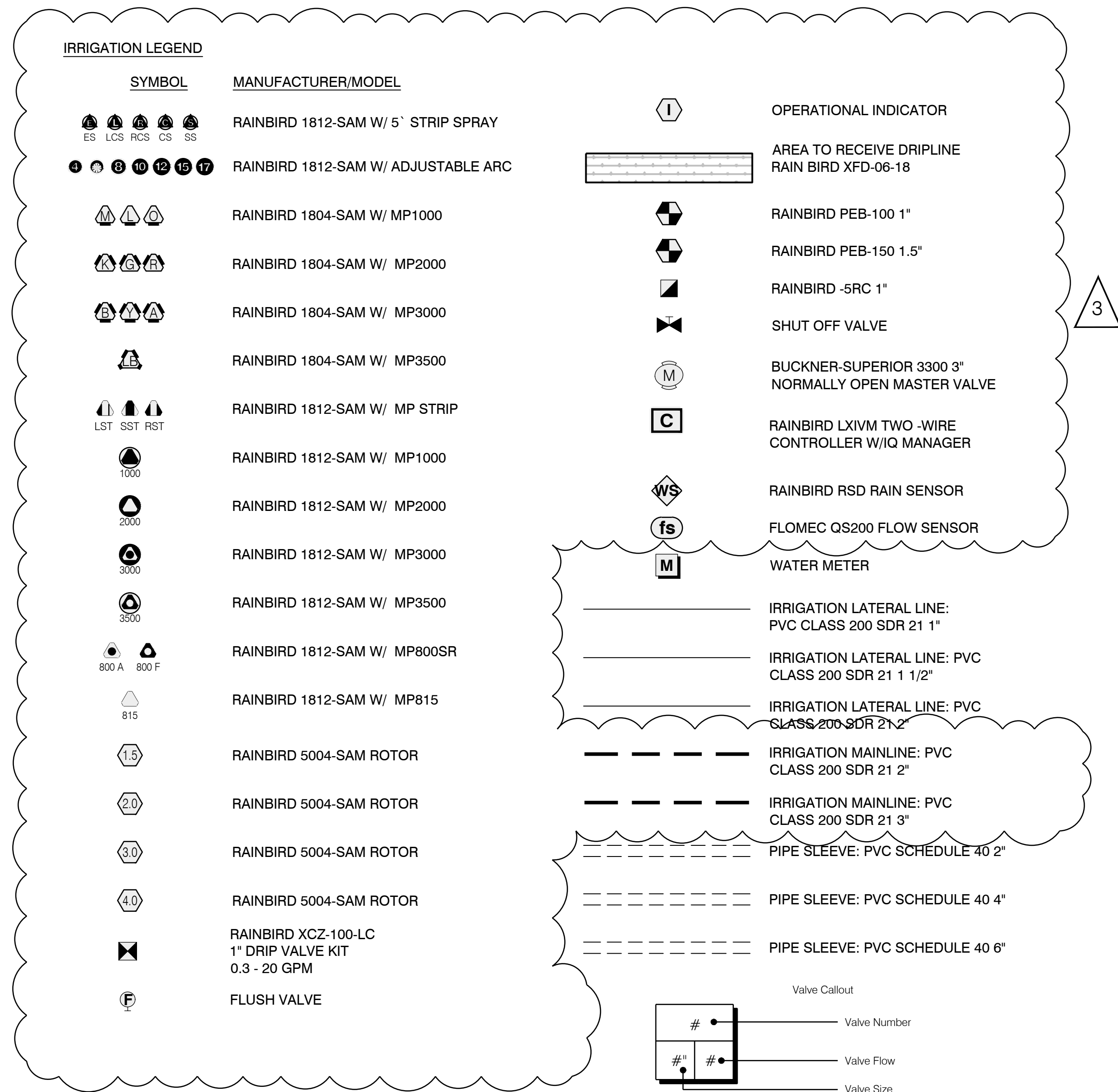
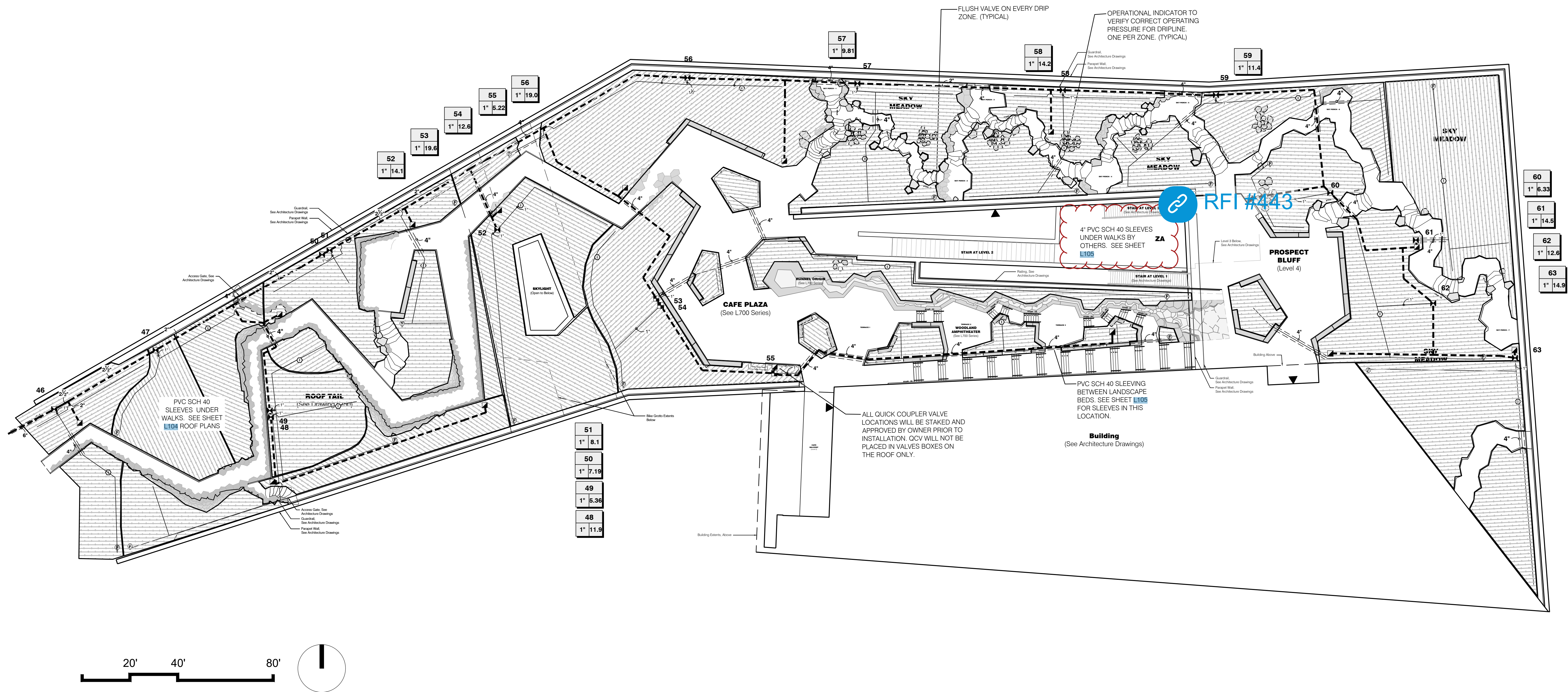
IRRIGATION LEGEND

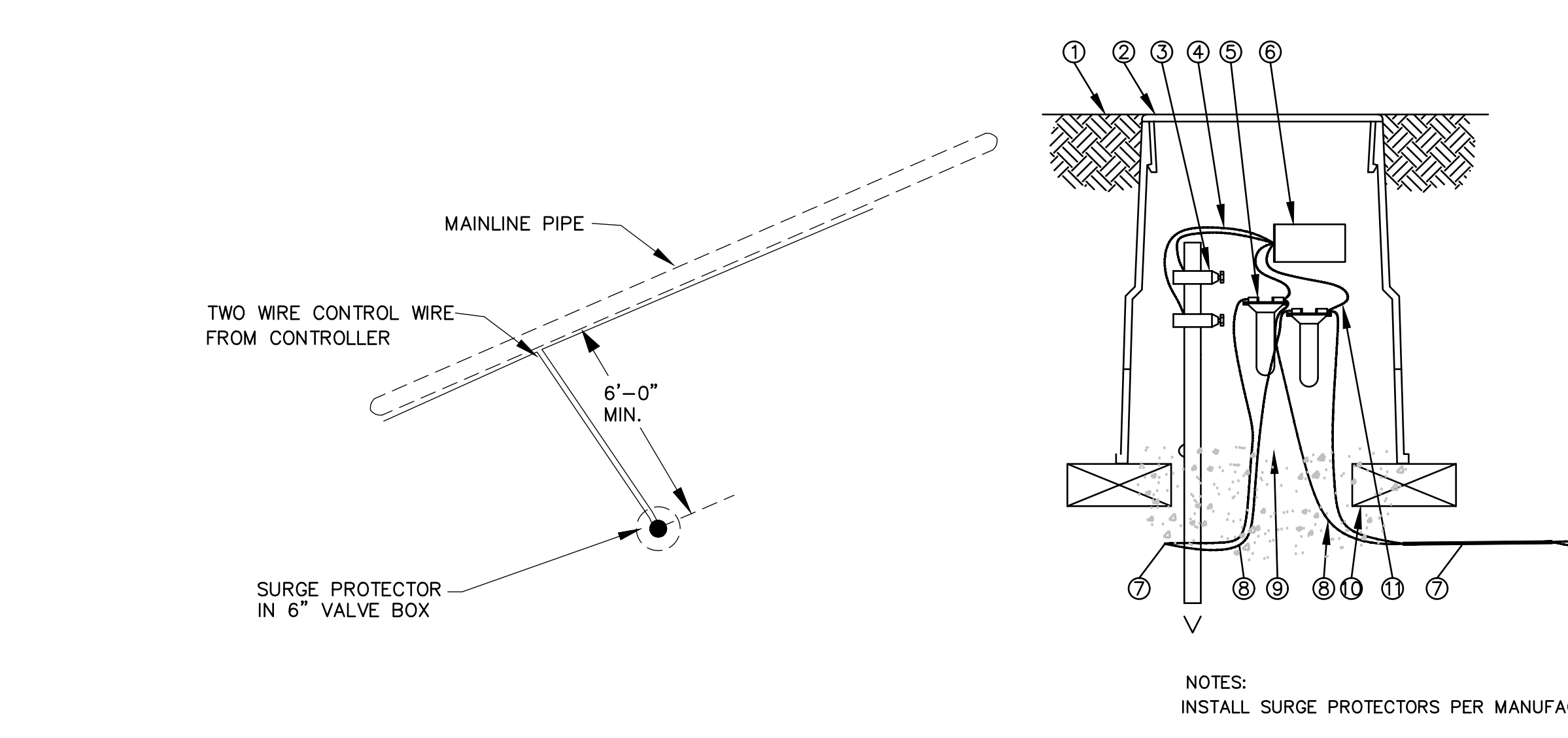
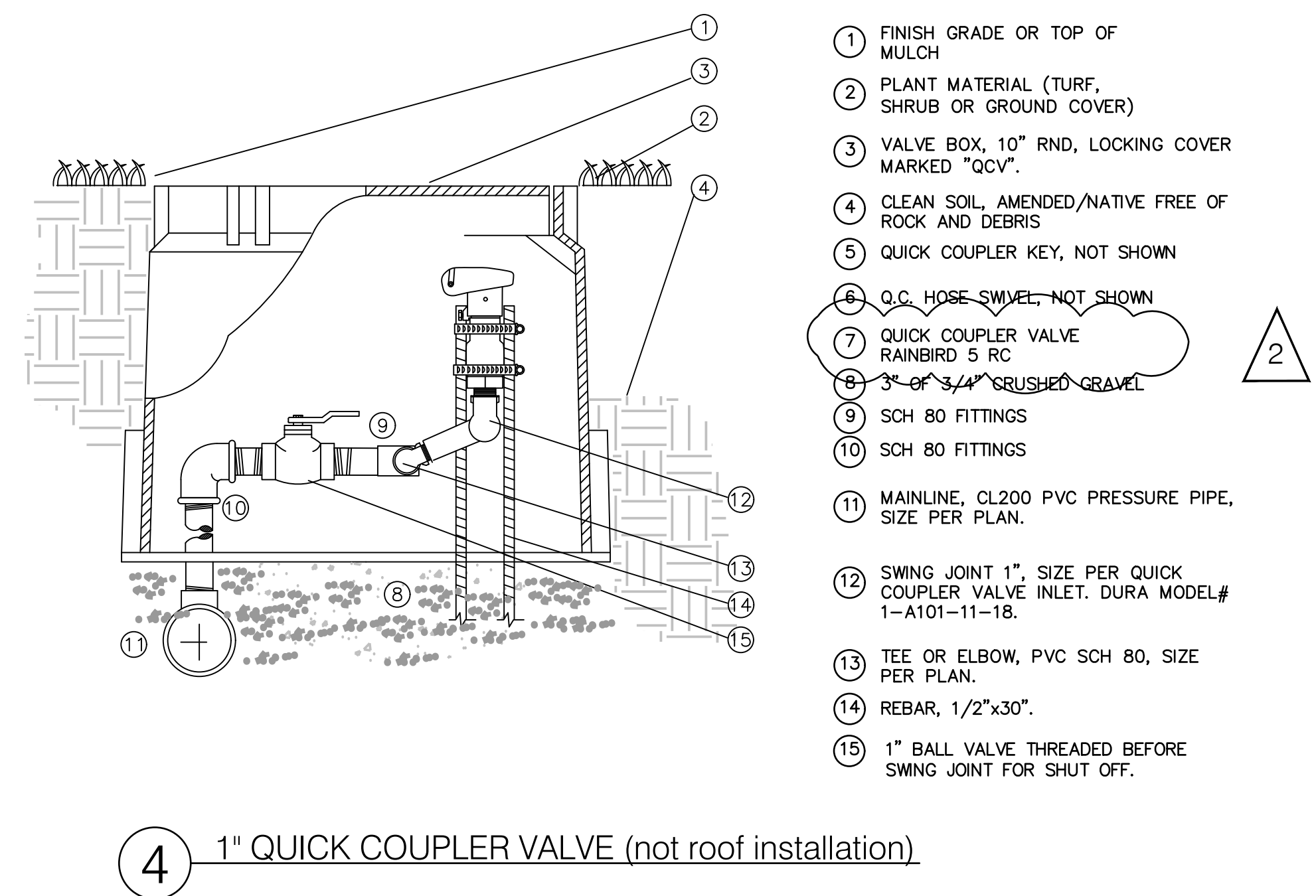
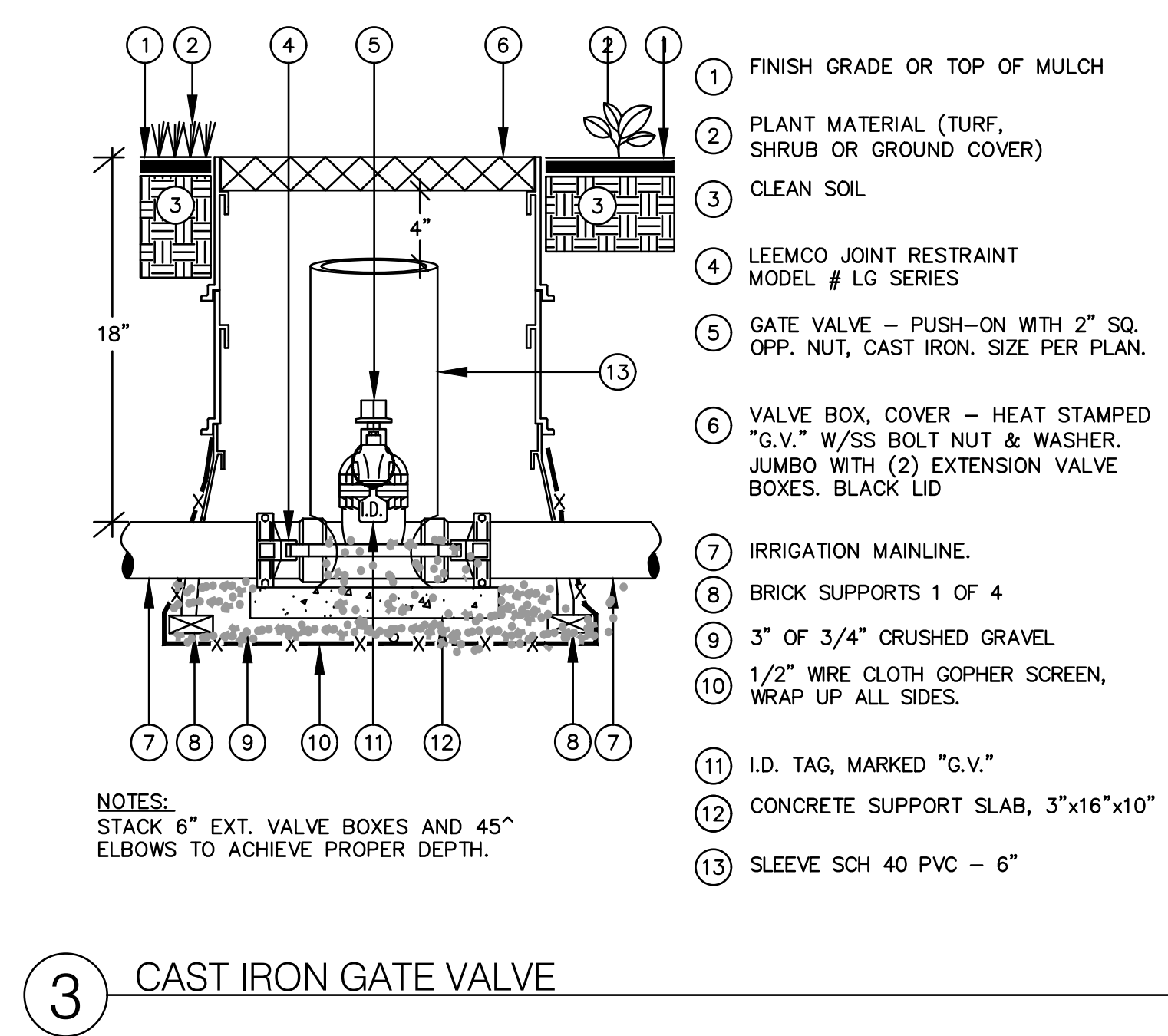
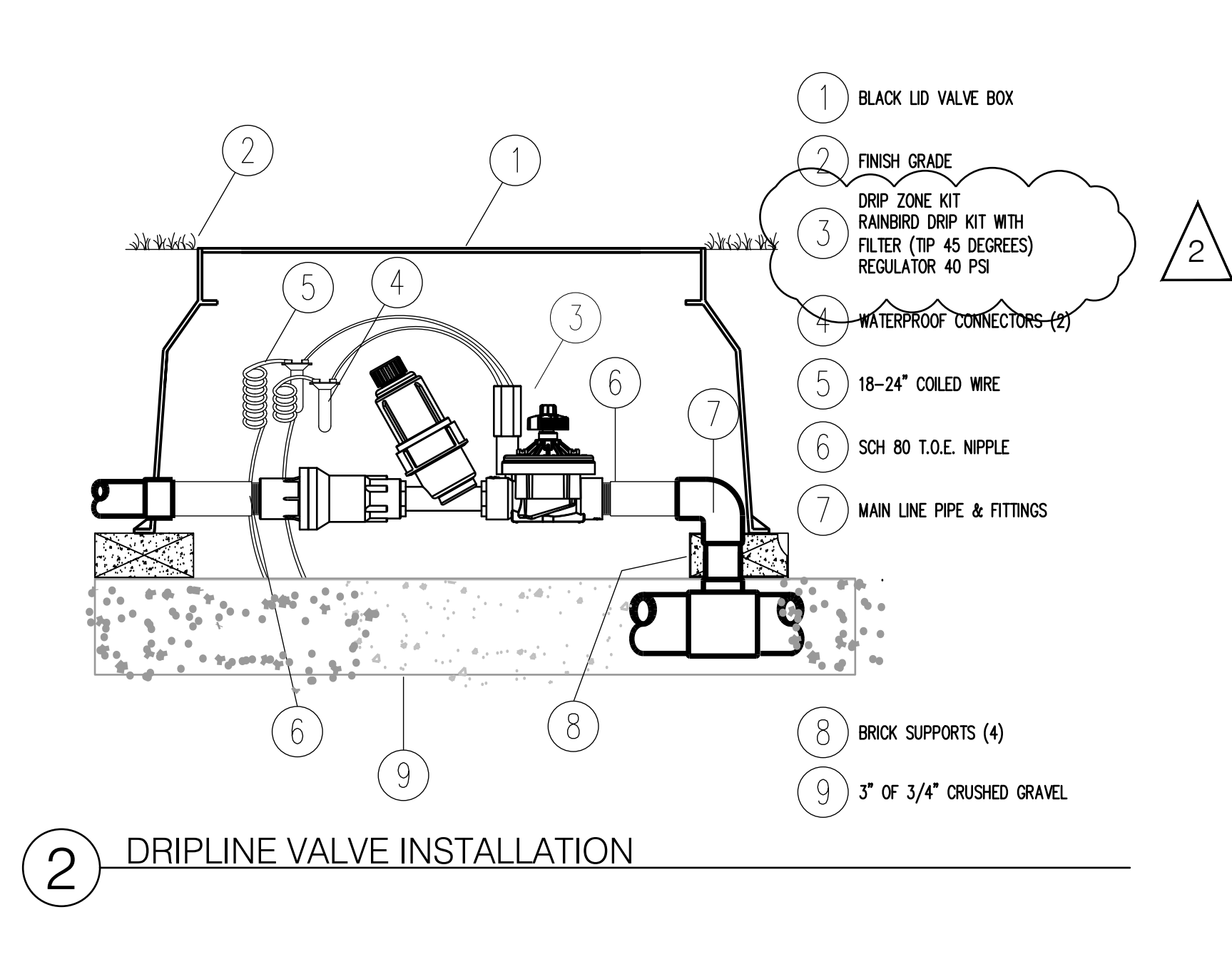
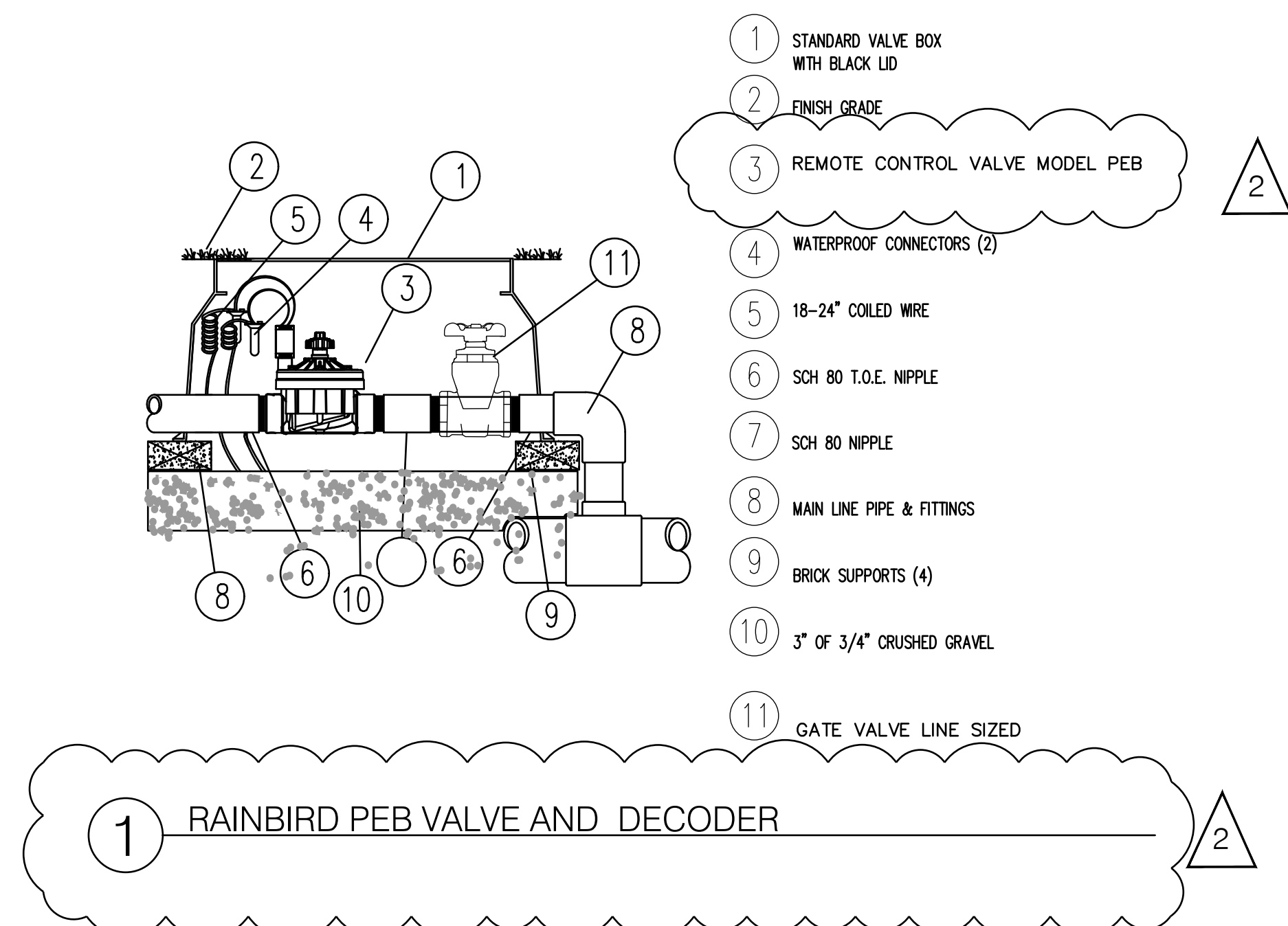
SYMBOL	MANUFACTURER/MODEL
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	RAINBIRD 1804-SAM W/ MP3500
	RAINBIRD 1812-SAM W/ MP STRIP
	RAINBIRD 1812-SAM W/ MP1000
	RAINBIRD 1812-SAM W/ MP2000
	RAINBIRD 1812-SAM W/ MP3000
	RAINBIRD 1812-SAM W/ MP3500
	RAINBIRD 1812-SAM W/ MP800SR
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	RAINBIRD XCZ-150-LCS 1.5" DRIP VALVE KIT
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	PIPE SLEEVE: PVC SCHEDULE 40 2"
	PIPE SLEEVE: PVC SCHEDULE 40 4"
	PIPE SLEEVE: PVC SCHEDULE 40 6"



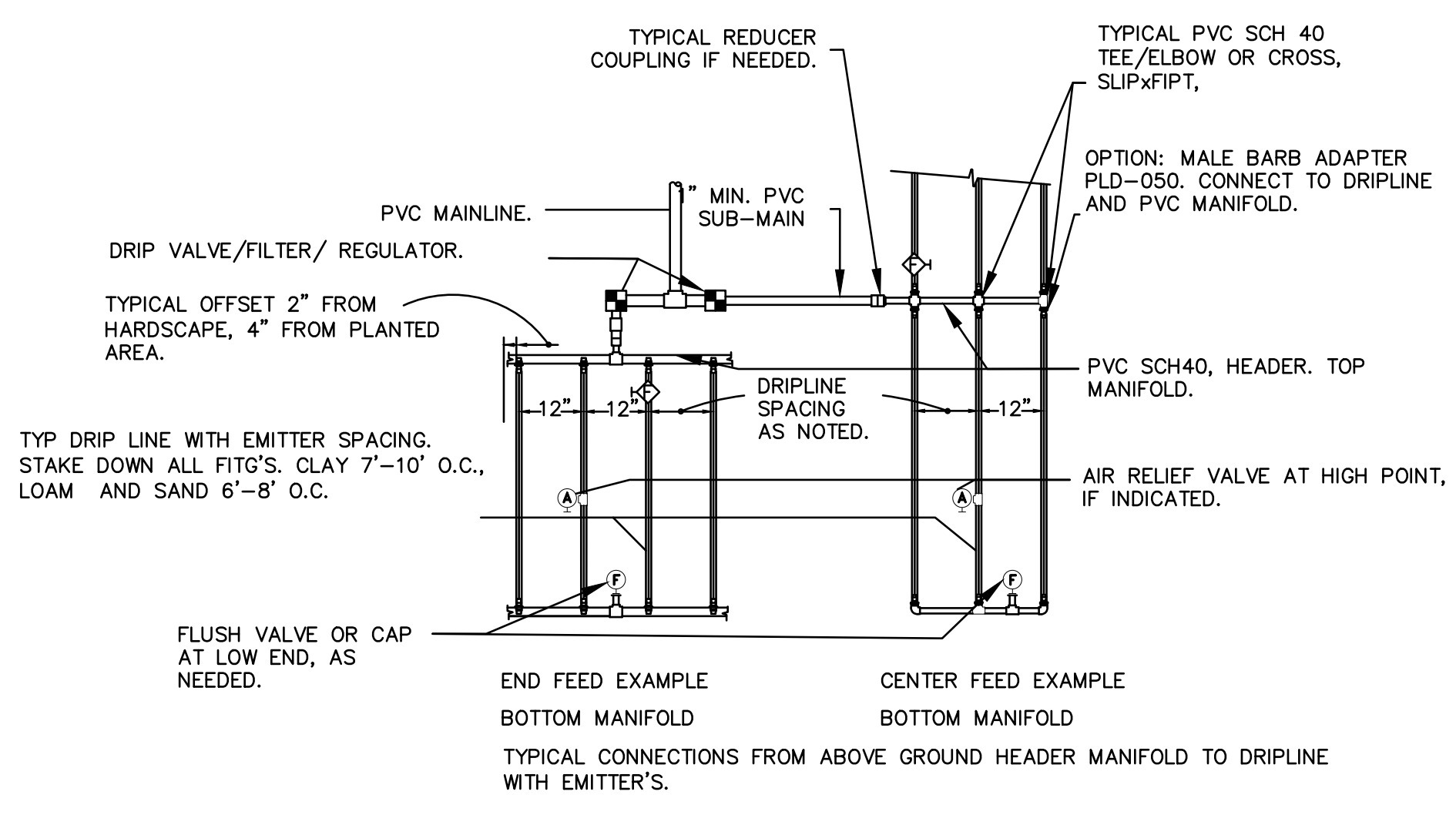


REVISIONS		
NUMBER	DATE	DESCRIPTION
1	03.13.2023	ADDENDUM 1
2	06.06.2023	REVISED
3	07.24.2024	ADDENDUM 2





1. FINISH GRADE OR TOP OF MULCH
2. 10-INCH VALVE BOX WITH COVER: BLACK LID
3. GROUNDING ROD: 10 OHMS OR LESS, SEE SPECS
4. GREEN/YELLOW WIRE FROM SURGE PROTECTOR TO GROUNDING ROD BRASS CLAMPS (1 OF 2)
5. WATERPROOF WIRE CONNECTOR
6. LINE SURGE PROTECTOR
7. TWO-WIRE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR CONTROLLER)
8. COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR CONTROLLER)
9. 3" OF 3/4" CRUSHED GRAVEL
10. BRICK (1 OF 2)
11. BLUE WIRE FROM SURGE PROTECTOR TO DB SERIES WIRE CONNECTOR

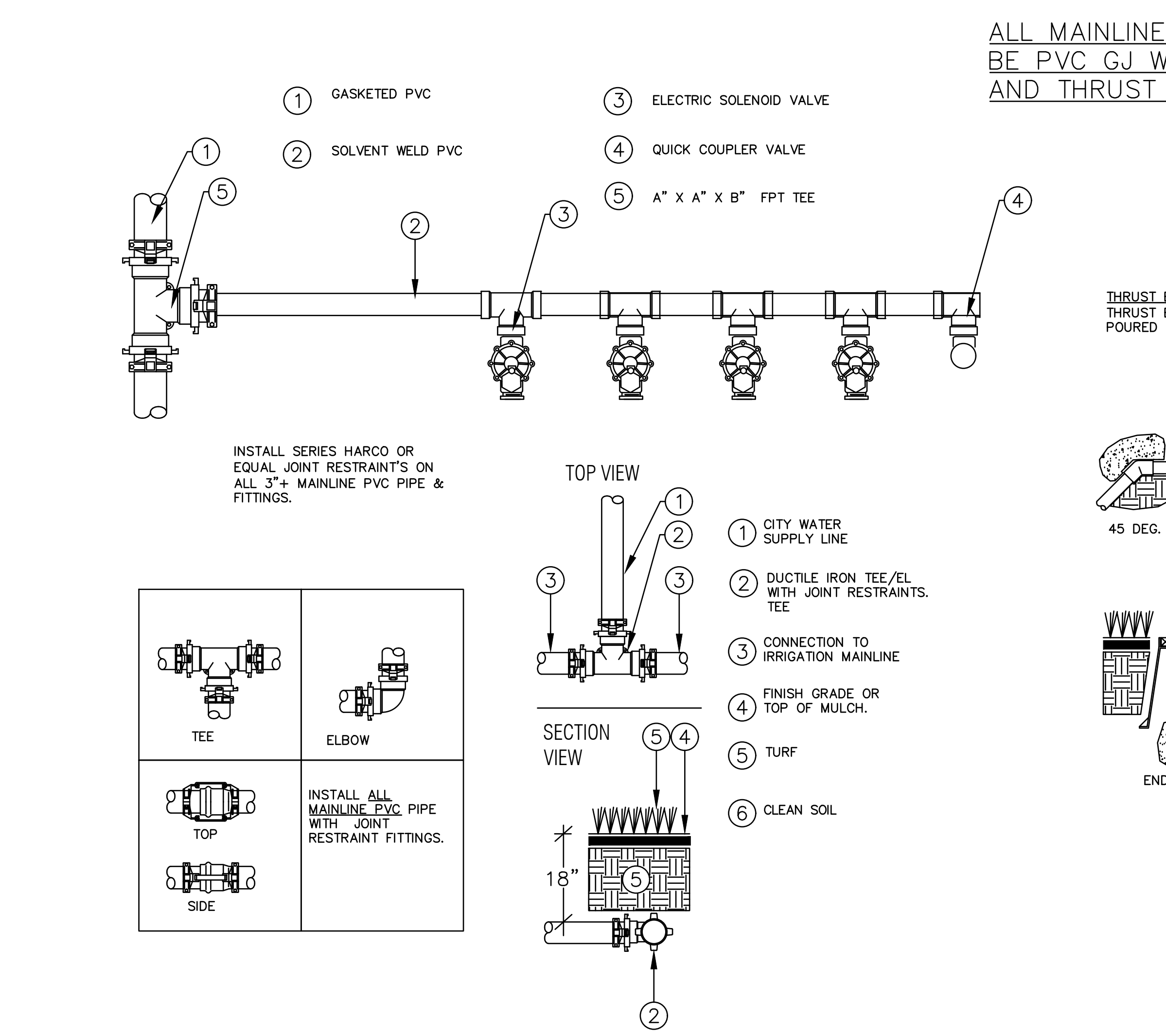


MAXIMUM LATERAL LENGTH (FEET)					
EMITTER FLOW RATE GPH					
PSI	12" SPACING 0.6 1.0		18" SPACING 0.6 1.0		24" SPACING 0.6 1.0
20	279	203	261	283	479 354
25	331	243	384	339	574 427
30	384	259	490	361	674 453
35	390	289	542	401	679 502
40	420	312	585	432	735 541
50	472	344	654	482	819 608

GRID PRECIPITATION RATES (IN/HR)				MAXIMUM FLOW PER ZONE			
EMITTER SPACING		LATERAL SPACING		EMITTER FLOW RATE		MAX. GPM LOSS	
				0.60 1.0		SCHEDULE 40 PVC HEADERS SIZE	
						1.0" 1.2"	
12"		12"		0.96 1.60		1.5" 30.0 GPM 2.34 PSI	
18"		18"		0.69 1.08		2.0" 50.0 GPM 1.73 PSI	
24"		24"		0.28 0.80		2.5" 75.0 GPM 1.48 PSI	
						3.0" 100.0 GPM 0.83 PSI	

LATERAL FLOW PER 100 FT (GPM)							
EMITTER FLOW		12" SPACING		18" SPACING		24" SPACING	
0.6 GPM		1.0 GPM		0.67 GPM		0.50 GPM	
1.0 GPH		1.7 GPM		1.12 GPM		0.83 GPM	

SLOPED CONDITION NOTE:
 1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
 2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
 3. NORMAL SPACING WITHIN THE TOP 2/3 OF SLOPE.
 4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM 1/3 OF THE SLOPE.



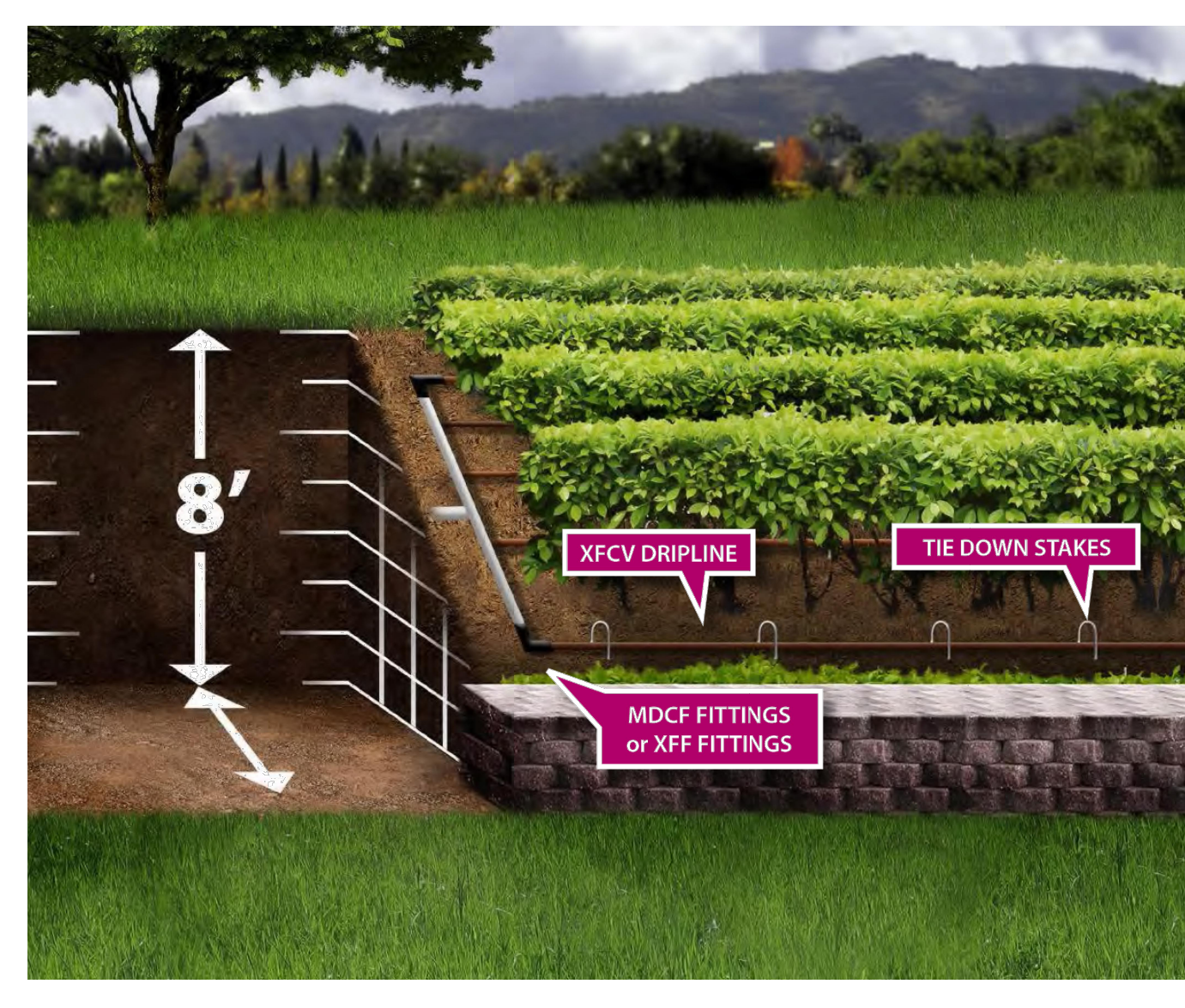
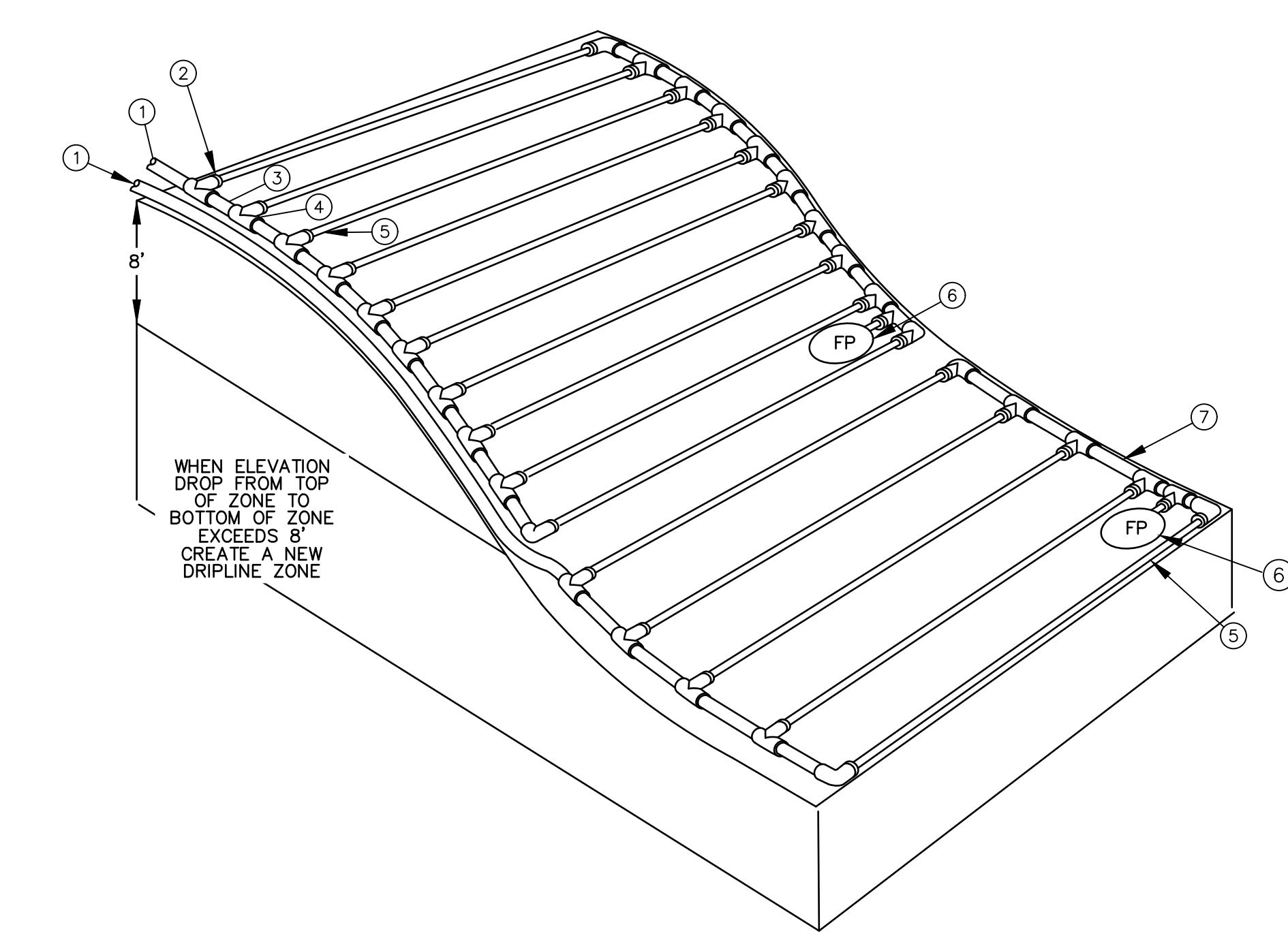
ALL MAINLINE PIPE 3" AND ABOVE SHALL BE PVC GJ WITH DUCTILE IRON FITTINGS AND THRUST BLOCKED AT ALL FITTINGS...

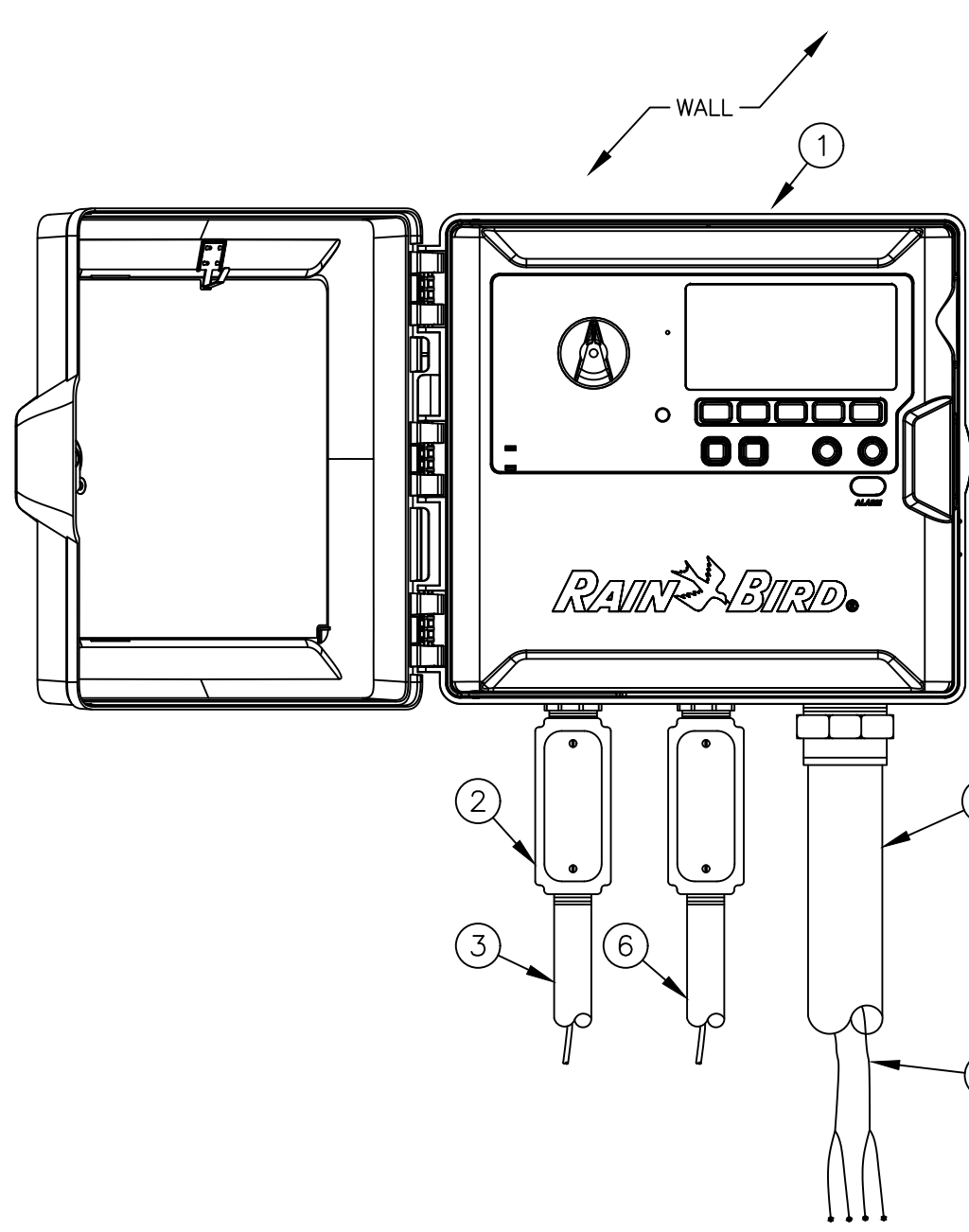
THRUST BLOCK DETAILS:
 THRUST BLOCK ALL FITTINGS ON LATERAL LINE PVC PIPE 2" AND ABOVE. POURED IN-PLACE CONCRETE, 120 LBS. MINIMUM.

Dripline Maximum Lateral Lengths (Feet)				
Inlet Pressure	12" Spacing		18" Spacing	
	Nominal Flow	Nominal Flow	Nominal Flow	Nominal Flow
20	192	136	254	215
30	289	205	402	337
40	350	248	498	416
50	397	281	573	477
60	436	309	637	529

1. PVC DRIP MANIFOLD FROM CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
2. BARB X MALE FITTING:
3. PVC SUPPLY HEADER
4. PVC SCH 40 TEE OR EL (TYPICAL)
5. SUB-SURFACE DRIPLINE:
6. FLUSH POINT: FLUSH POINT INSTALLATION
7. PVC FLUSH HEADER

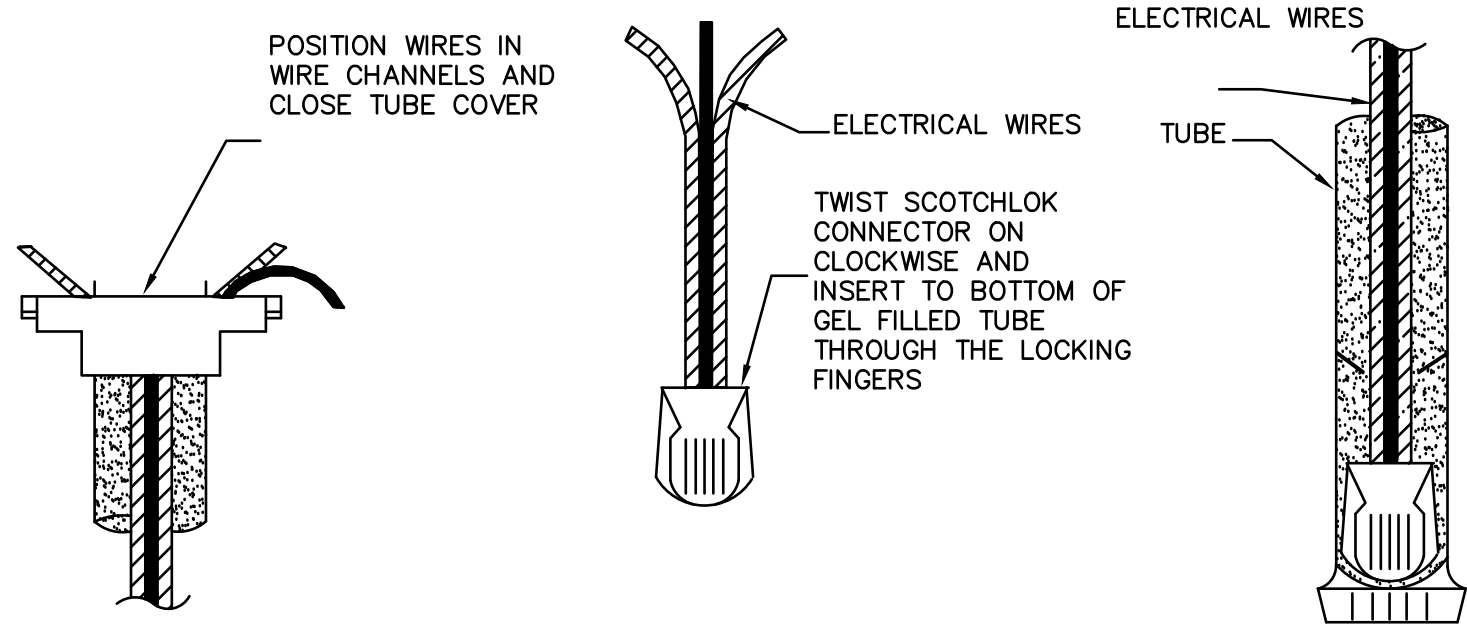
NOTES:
 1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. DISTANCE BETWEEN LATERAL ROWS FOR BOTTOM 1/3 OF SLOPE TO BE SPACED GREATER THAN OPTIMAL ROW DISTANCE. SEE DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACING.
 2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
 3. WHEN ELEVATION CHANGE EXCEEDS 8 FEET IT IS RECOMMENDED THAT A NEW DRIPLINE ZONE BE CREATED.
 4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.





- 1 TWO-WIRE CONTROLLER: RAIN BIRD ESP-LXVM/PRO IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 2 JUNCTION BOX
- 3 1-INCH CONDUIT AND FITTINGS FOR POWER SUPPLY WIRE
- 4 2-INCH CONDUIT AND FITTINGS FOR TWO-WIRE CABLE
- 5 MAXICABLE TWO-WIRE PATH TO FIELD DEVICES. USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH.
- 6 1-INCH CONDUIT AND FITTINGS FOR GROUND WIRE. ONLY FOR OUTDOOR INSTALLATIONS.

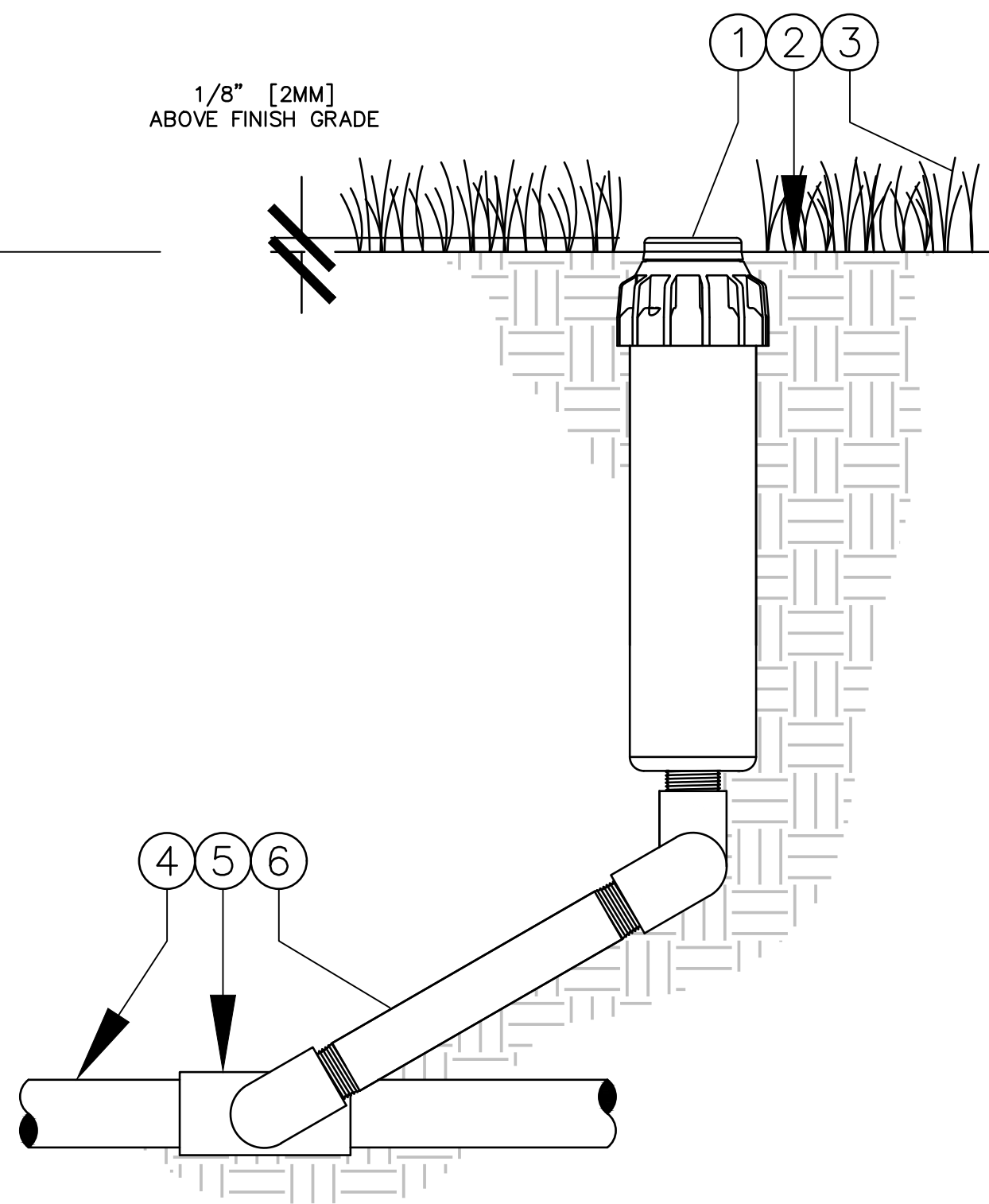
NOTES:
1. ESP-LXVM CONTROLLER IS AVAILABLE IN TWO MODELS. THE LXVM WITH 60 STATIONS, AND THE LXVM-PRO WITH 240 STATIONS. REFER TO THE CHART BELOW FOR DIFFERENCES BETWEEN THE TWO MODELS.
2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS. IF CONTROLLER IS MOUNTED INDOORS, USE POWER SUPPLY GROUND.



4 WATERPROOF WIRE CONNECTORS

LEGEND

- 1 RAINBIRD 5004-SAM ROTOR NOZZLE AND CAP PER PLAN
- 2 FINISHED GRADE
- 3 ADJACENT LANDSCAPE
- 4 LATERAL PIPE PER PLAN
- 5 LATERAL FITTING PER PLAN
- 6 FIELD-BUILT SWING ARM



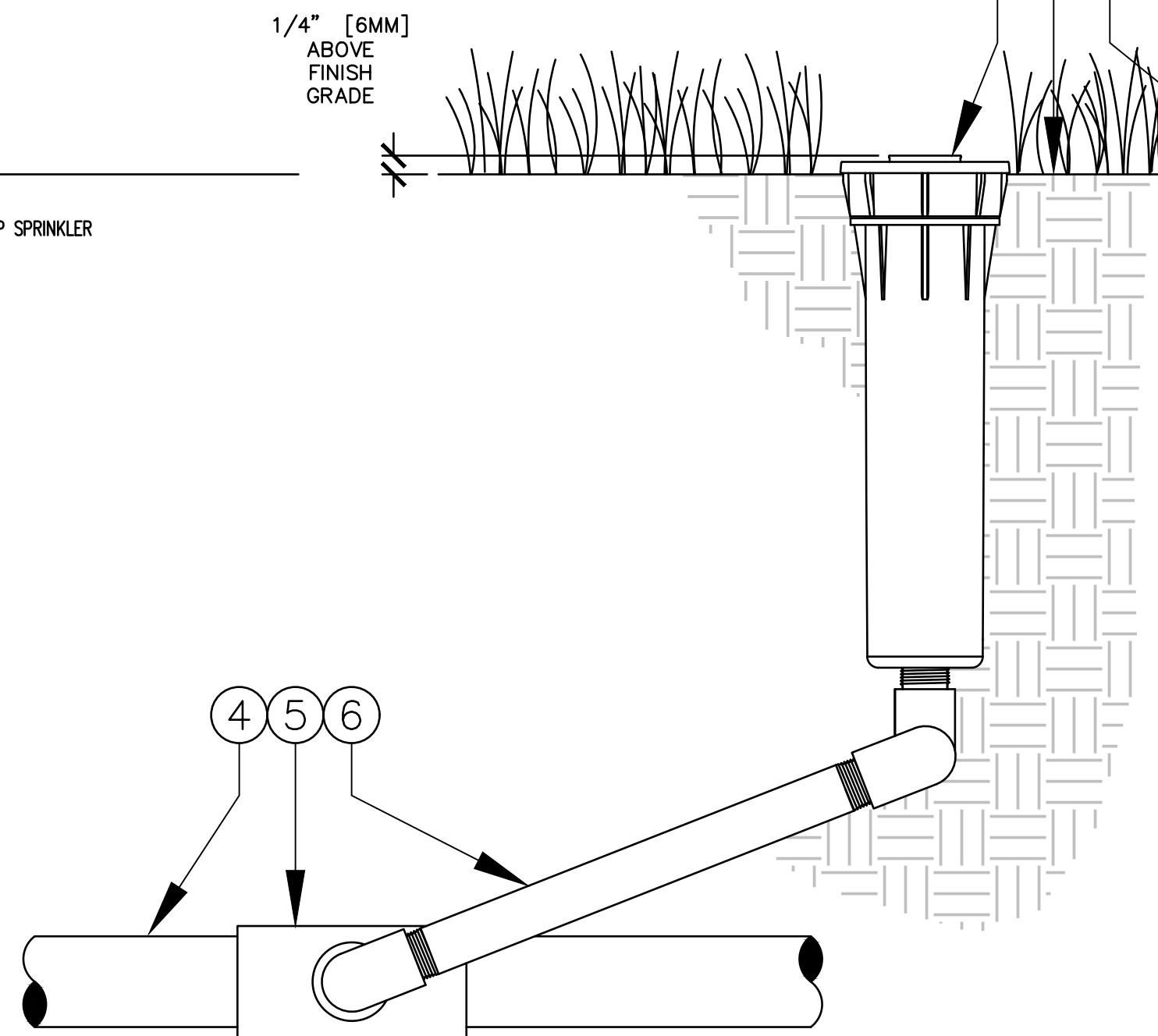
3 TURF ROTOR INSTALLATION

INSTALL POPUP SPRAY SPRINKLER 4" FROM PAVED EDGE, BUILDINGS AND FENCE AREAS. AND, INSTALL FLUSH TO GRADE. ADJUST COVERAGE TO AVOID OVERSPRAY ONTO PAVED SURFACES, FENCES, BUILDINGS AND PARKING LOTS.

USE ONLY TEFLON TAPE OR SEALANT ON ALL THREADED CONNECTIONS.

LEGEND

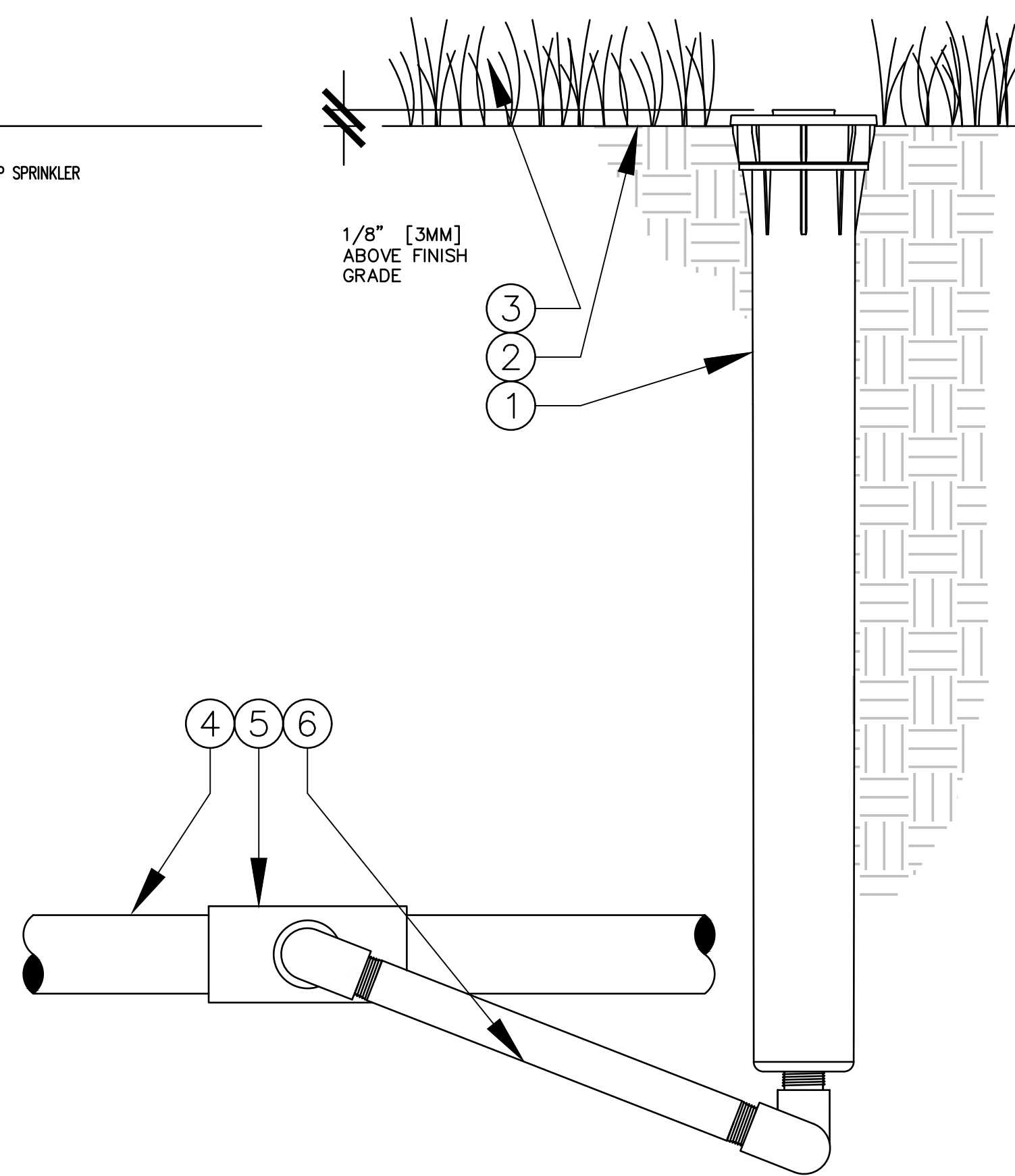
- 1 RAINBIRD 1804-SAM 4" POP UP SPRINKLER NOZZLE AND CAP PER PLAN
- 2 FINISHED GRADE
- 3 ADJACENT LANDSCAPE
- 4 LATERAL PIPE PER PLAN
- 5 LATERAL FITTING PER PLAN
- 6 FIELD-BUILT SWING ARM



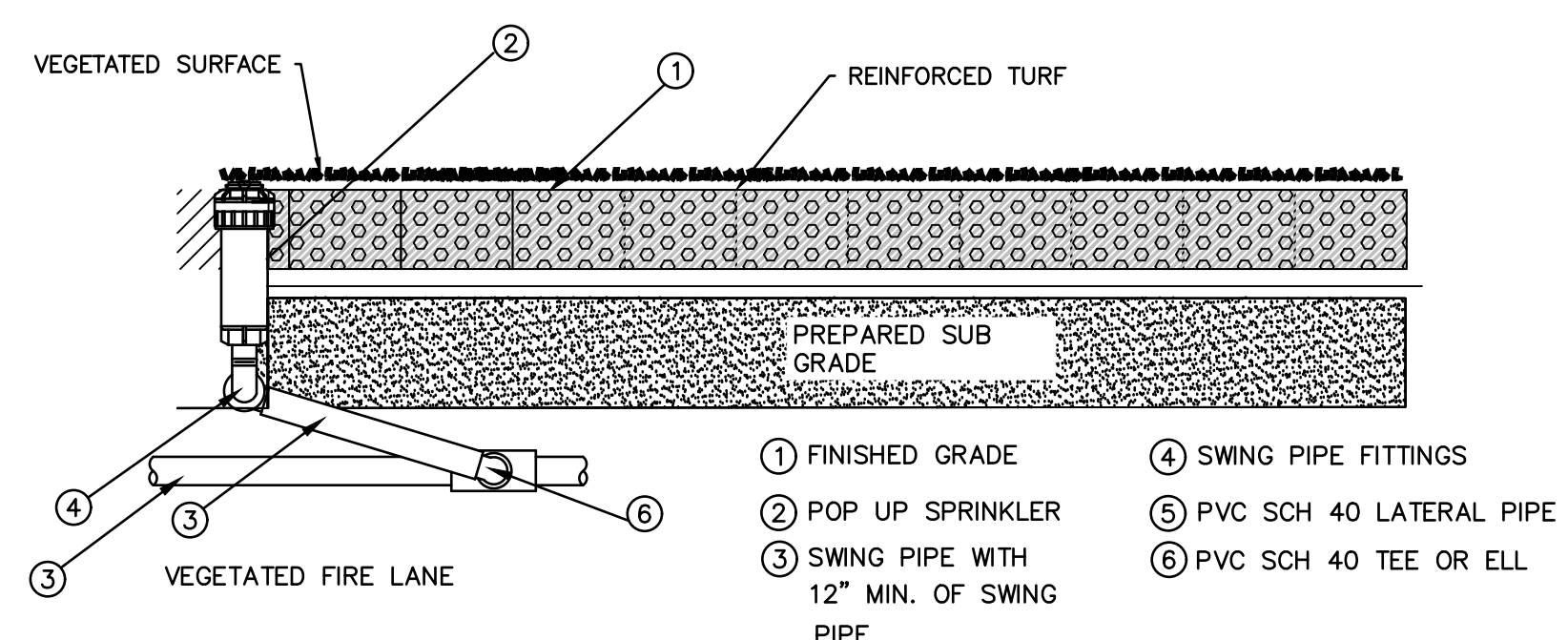
4 4" POP UP SPRINKLER INSTALLATION

LEGEND

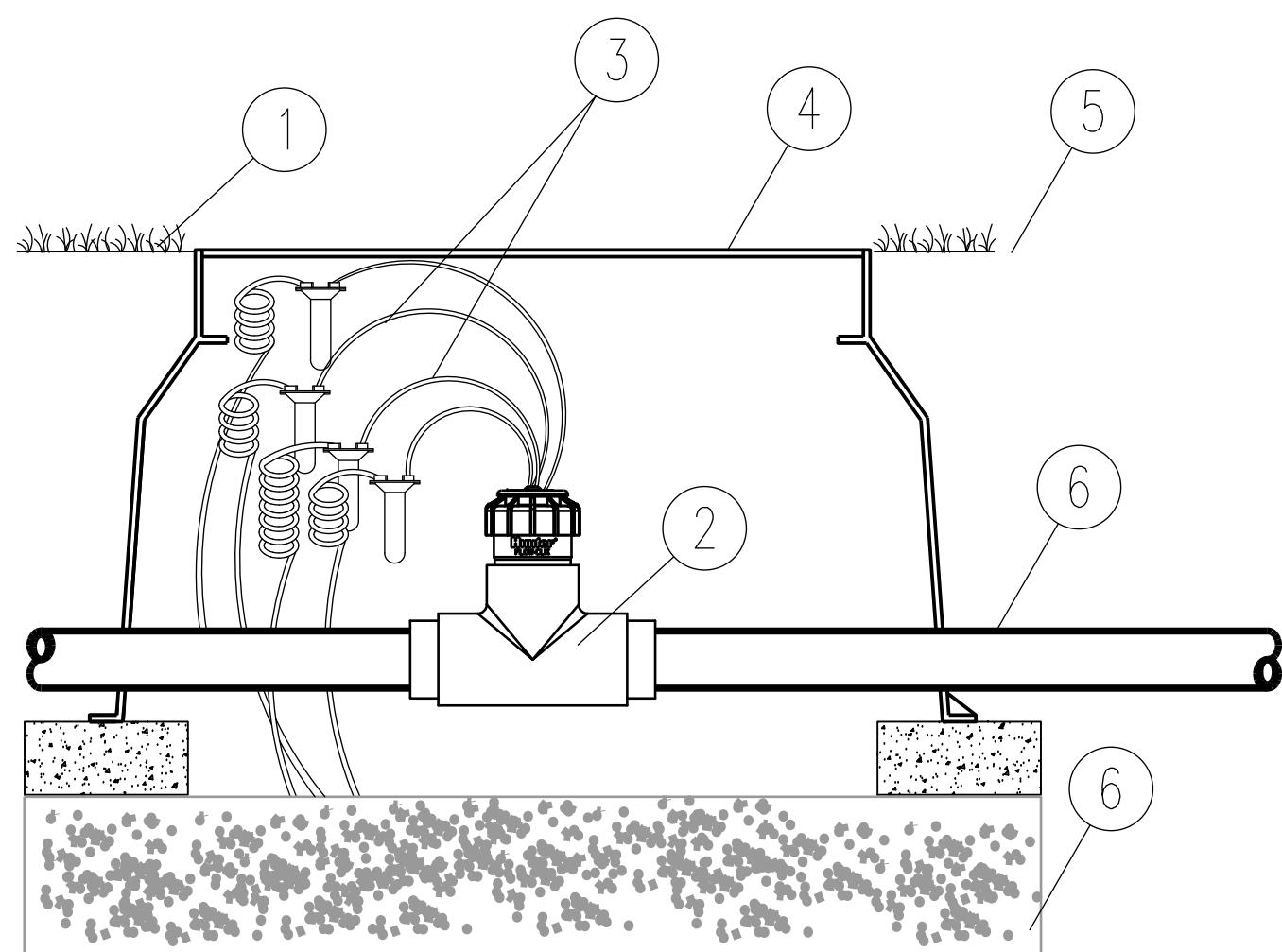
- 1 RAINBIRD 1812-SAM 12" POP UP SPRINKLER NOZZLE AND CAP PER PLAN
- 2 FINISHED GRADE
- 3 ADJACENT LANDSCAPE
- 4 LATERAL PIPE PER PLAN
- 5 LATERAL FITTING PER PLAN
- 6 FIELD-BUILT SWING ARM



5 12" POP UP SPRINKLER



6 POP UP SPRINKLER IN REINFORCED TURF FIRE LANE



NOTE INLET PIPE LENGTH OF SENSOR MUST BE MIN. 10X PIPE DIA. STRAIGHT, CLEAN RUN OF PIPE, NO FITTINGS OR TURNS. OUTLET PIPE LENGTH OF SENSOR MUST BE MIN. 5X PIPE DIA. OF STRAIGHT CLEAN RUN OF PIPE, NO FITTINGS OR TURNS.

6 FLOMEC FLOW SENSOR QS200

- 1 BLACK VALVE BOX COVER
- 2 MODEL QS200 FLOW SENSOR
- 3 MIN. 18/4 WIRE TO SITE INTERFACE. MAXIMUM WIRE DISTANCE RUN OF 1,000'
- 4 STANDARD VALVE BOX
- 5 FINISH GRADE
- 6 MAIN LINE PIPE
- 7 3" OF 3/4" CRUSHED GRAVEL

WATERING SCHEDULE TO BE USED AS A GUIDE

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	228	76.1
2	RAINBIRD PEB	SHRUB ROTARY	0.42 in/h	1	145	3,072	1,024
3	RAINBIRD PEB	SHRUB ROTARY	0.35 in/h	1	173	5,189	1,730
4	RAINBIRD PEB	SHRUB ROTARY	0.24 in/h	1	255	6,876	2,292
5	RAINBIRD PEB	SHRUB ROTARY	0.26 in/h	1	230	7,235	2,412
6	RAINBIRD PEB	SHRUB ROTARY	0.28 in/h	1	216	5,510	1,837
7	RAINBIRD PEB	SHRUB ROTARY	0.28 in/h	1	214	6,035	2,012
8	RAINBIRD PEB	SHRUB ROTARY	0.32 in/h	1	191	4,906	1,635
9	RAINBIRD PEB	TURF ROTOR	1.06 in/h	1	57	1,020	340
10	RAINBIRD PEB	SHRUB ROTARY	0.53 in/h	1	114	3,649	1,216
11	RAINBIRD PEB	SHRUB ROTARY	0.29 in/h	1	210	3,775	1,258
12	RAINBIRD PEB	SHRUB ROTARY	0.33 in/h	1	183	3,184	1,061
13	RAINBIRD PEB	SHRUB ROTARY	0.31 in/h	1	193	3,166	1,055
14	RAINBIRD PEB	SHRUB ROTARY	0.47 in/h	1	128	2,705	902
15	RAINBIRD PEB	TURF SPRAY	1.05 in/h	1	57	1,630	543
16	RAINBIRD PEB	SHRUB ROTARY	0.45 in/h	1	134	4,007	1,336
17	RAINBIRD PEB	SHRUB ROTARY	0.46 in/h	1	131	1,486	495
18	RAINBIRD PEB	SHRUB ROTARY	0.56 in/h	1	108	1,876	625
19	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,291	764
20	RAINBIRD PEB	TURF ROTOR	0.59 in/h	1	103	2,513	838
21	RAINBIRD PEB	SHRUB ROTARY	0.46 in/h	1	131	2,865	955
22	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,228	743
23	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,368	456
24	RAINBIRD PEB	TURF ROTARY	0.63 in/h	1	96	3,475	1,158
25	RAINBIRD PEB	TURF SPRAY	1.54 in/h	1	40	1,475	492
26	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,052	684
27	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,316	439
28	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,703	901
29	RAINBIRD PEB	TURF ROTOR	0.73 in/h	1	83	2,888	963
30	RAINBIRD PEB	SHRUB ROTARY	0.39 in/h	1	155	3,359	1,120
31	RAINBIRD PEB	SHRUB SPRAY	1.4 in/h	1	43	1,216	405
32	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,173	724
33	RAINBIRD PEB	TURF ROTOR	0.53 in/h	1	115	3,795	1,265
34	RAINBIRD PEB	TURF ROTARY	0.33 in/h	1	180	2,373	791
35	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,586	529
36	RAINBIRD PEB	TURF ROTARY	0.22 in/h	1	272	6,866	2,289
37	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,851	617
38	RAINBIRD PEB	TURF ROTOR	0.41 in/h	1	148	4,899	1,633
39	RAINBIRD PEB	SHRUB ROTARY	0.34 in/h	1	178	4,778	1,593
40	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,430	477
41	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	667	222
42	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,617	539
43	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,686	562
44	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,290	763
45	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,189	396
46	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	687	229
47	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,134	378
48	RAINBIRD PEB	SHRUB ROTARY	0.38 in/h	1	158	7,228	2,409
49	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	140	1,225	408
50	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	998	333
51	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	578	193
52	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,681	560
53	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,449	816
54	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,726	575
55	RAINBIRD PEB	SHRUB ROTARY	0.21 in/h	1	280	7,230	2,410
56	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,048	349
57	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,789	596
58	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,272	757
59	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	140	750	250
60	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,014	338
61	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,142	381
62	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,994	665
63	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,762	921
64	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	736	245
65	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,682	894
66	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,383	461
67	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,998	666
68	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,610	537
69	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	893	298
70	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,037	679
71	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	1,777	592
72	RB XCZ-100-LC	AREA FOR DRIPLINE	0.43 in/h	1	141	2,095	698
		TOTALS:			10,500	185,416	61,805