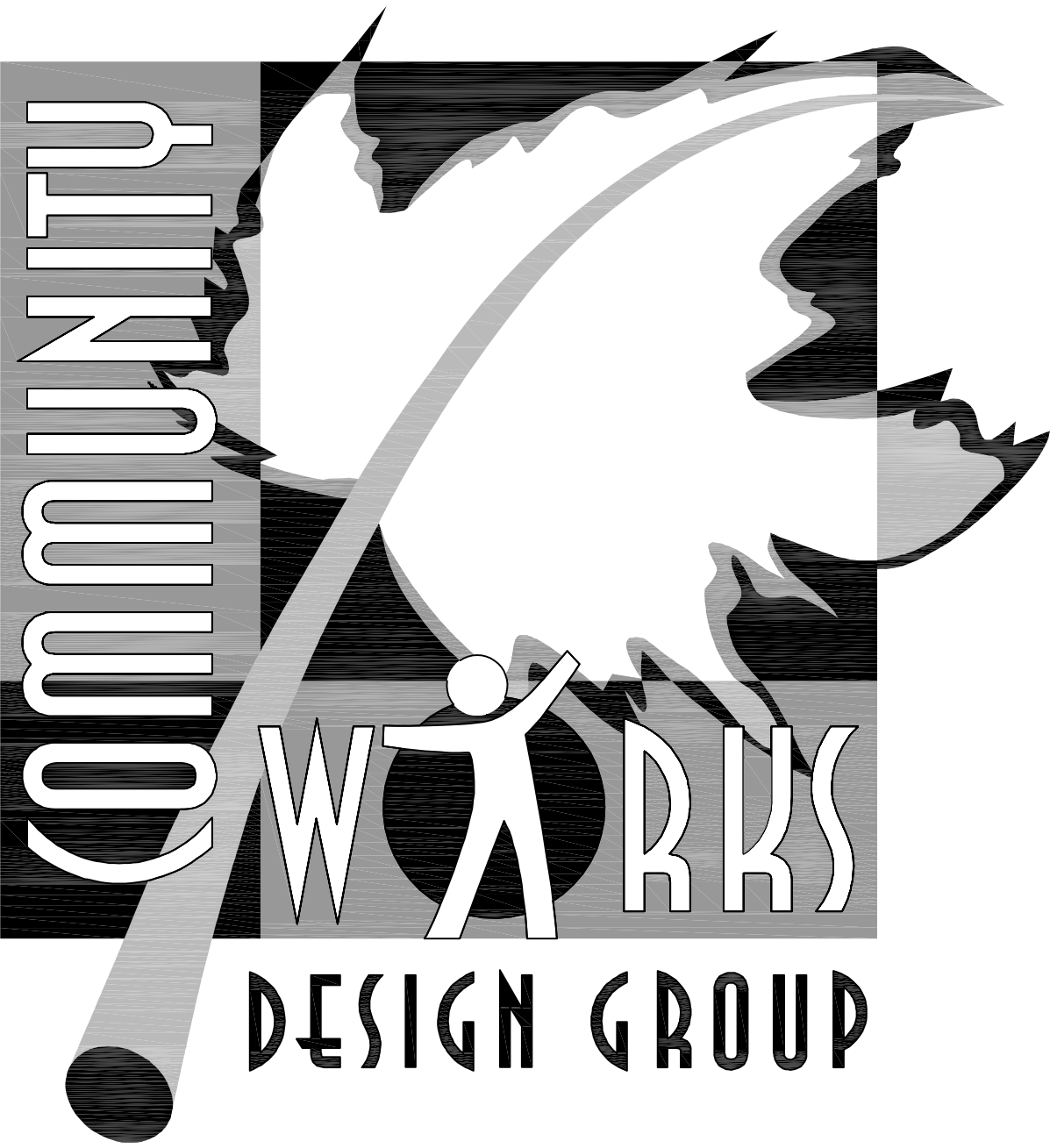


GREYSTONE MANSION SLOPE IRRIGATION IMPROVEMENTS

905 LOMA VISTA DRIVE, BEVERLY HILLS, CA 90210

FOR:
CITY OF BEVERLY HILLS
DEPARTMENT OF PUBLIC WORKS
345 FOOTHILL ROAD
BEVERLY HILLS, CA 90210



LANDSCAPE ARCHITECTURE

4649 Brockton Avenue

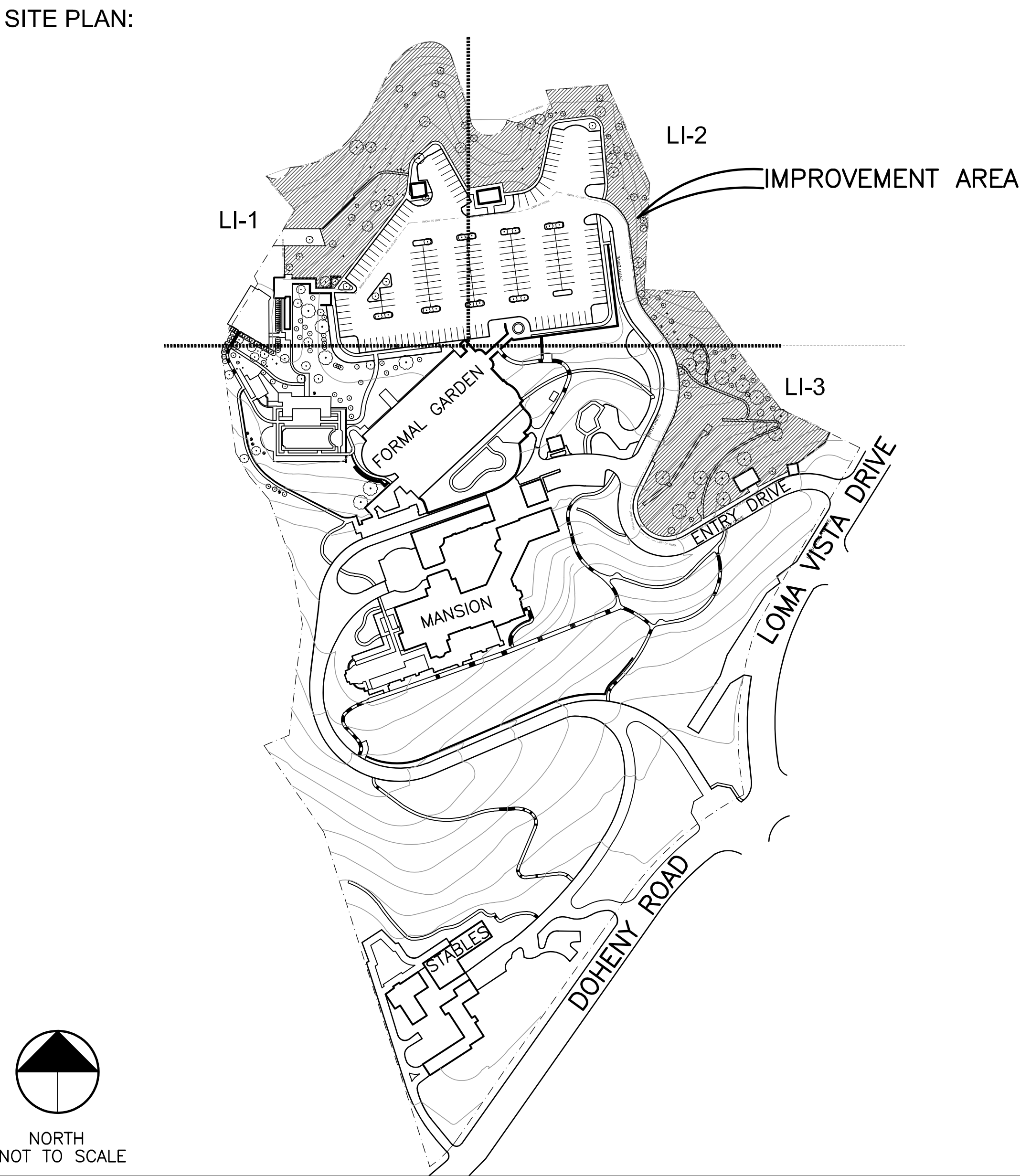
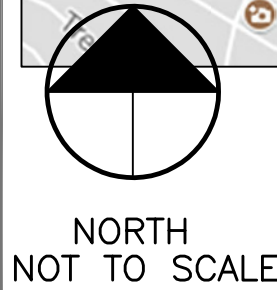
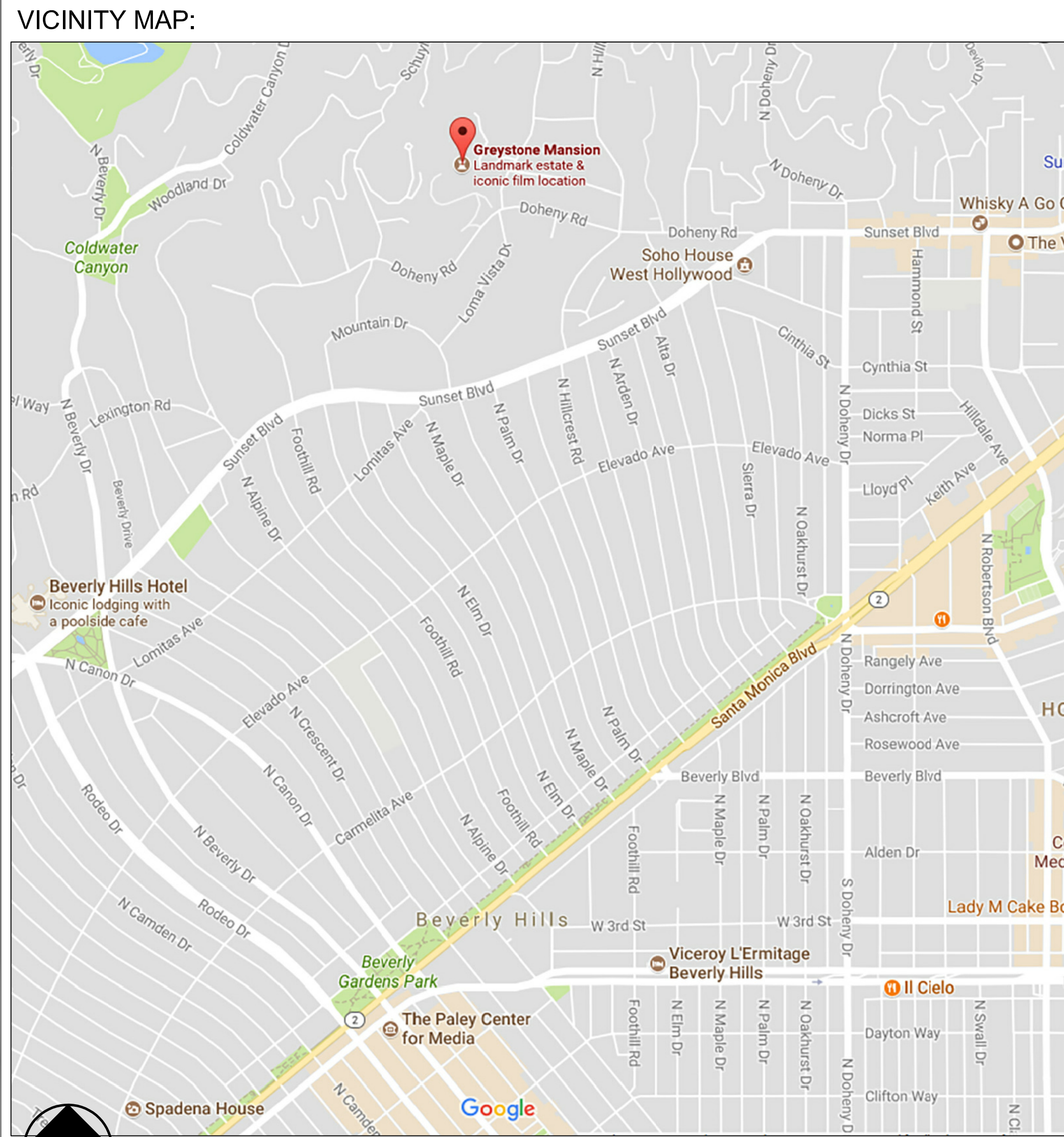
Riverside, CA 92506

Phone: (951) 369-0700

Fax: (951) 369-4039

www.comworksdg.com

Contact: Kay Kite



CONSULTANTS:

**GREYSTONE MANSION
SLOPE IRRIGATION**

CITY OF BEVERLY HILLS
345 FOOTHILL ROAD
BEVERLY HILLS, CA 90210

CONTACT: **MANDANA MOTAHARI**
310-288-2866

JOB NUMBER: **170432**
DRAWN BY: **KCK**
CHECKED BY: **SJR**
DATE: **10/3/17**

REVISIONS:

NO.	DATE	DESCRIPTION
1	3/8/18	REMOVE P2 LAYOUT, ADD CONT. 2 PWR NOTE

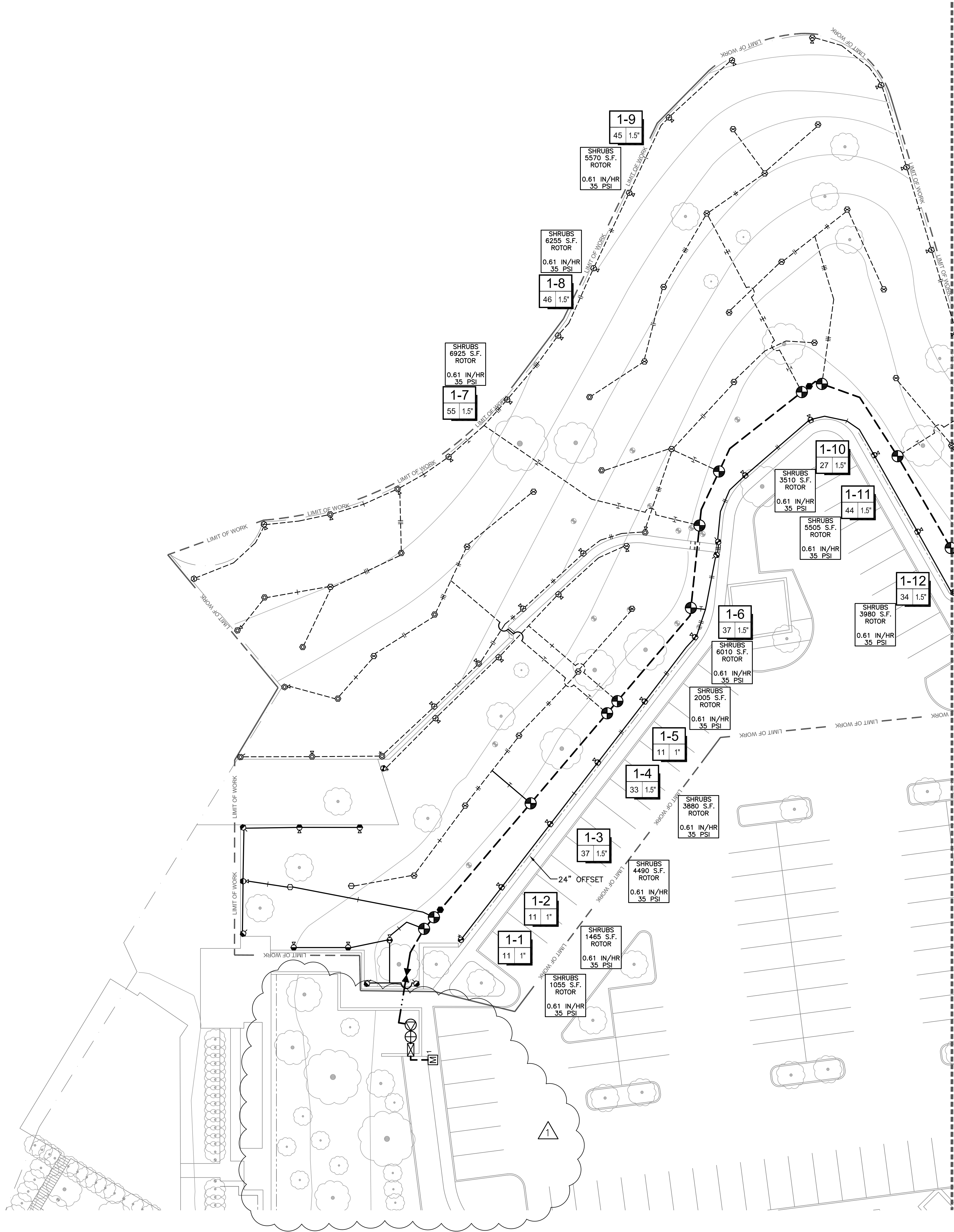
811
Know what's below.
Call before you dig.

SHEET INDEX:

NO.	DESCRIPTION
T-1	TITLE SHEET
LI-1	IRRIGATION PLAN
LI-2	IRRIGATION PLAN
LI-3	IRRIGATION PLAN
LI-4	IRRIGATION DETAILS
LI-5	IRRIGATION DETAILS





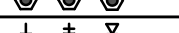



TITLE SHEET

T-1
SHEET 1 OF 6



MATCHLINE, SEE SHEET LI-2

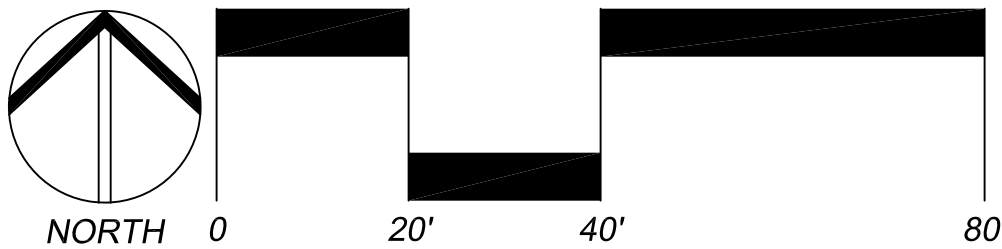
EQUIPMENT LEGEND				
SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
	INSTALL NEW IRRIGATION WATER METER PER CITY OF BEVERLY HILLS PUBLIC WORKS STANDARDS	2"	N/A	—
	EXISTING HUNTER ACC. CONTROLLER TO REMAIN, PROTECT IN PLACE. WIRE NEW VALVES TO FIRST AVAILABLE STATIONS. ADD A2C-600 EXPANSION MODULE IF NECESSARY.	42 STA.	—	(1,2)
	HUNTER A2C-1200-SS IRRIGATION CONTROLLER EQUIPPED WITH A2C-600 EXPANSION MODULE AND SOLAR SYNC ET SENSOR	18 STA.	'A', LI-4	(1,2)
	EXISTING BACKFLOW PREVENTER TO REMAIN, PROTECT IN PLACE. INSTALL NEW WATER METER UPSTREAM OF BFP	2"	—	(4)
	FEBCO 825V REDUCED PRESSURE BACKFLOW PREVENTER LOCATED IN A STRONG BOX SBBC-45SS VANDAL RESISTANT ENCLOSURE	2"	'B', LI-4	(4)
	HUNTER IBV-301G MASTER VALVE	3"	'C', LI-4	(3)
	HUNTER HFS FLOW SENSOR WITH FCT-208 RECEPTACLE TEE	2"	'D', LI-4	(6,7)
	NIBCO P-619 GATE VALVE	3"	'E', LI-4	(3)
	RAINBIRD #33DLRC SERIES QUICK COUPLING VALVE	3/4"	'F', LI-4	(3)
	RAINBIRD EFB-CP SERIES REMOTE CONTROL VALVE WITH PRS-D DIAL	PLAN SIZE	'G', LI-4	(3)
	EXISTING IRRIGATION MAINLINE TO REMAIN, PROTECT IN PLACE	3"	—	(3)
	CLASS 315 PVC IRRIGATION MAINLINE — 18" MIN. COVER	3"	'H', LI-4	(3)
	SCH 40 PVC NON-PRESSURE LATERAL LINE — 12" MIN. COVER	PLAN SIZE	'H', LI-4	(3)
	SCH 40 UV RESISTANT PVC NON-PRESSURE LATERAL LINE	PLAN SIZE	'I' & 'J', LI-4	(3)
	SCH 40 PVC IRRIGATION PIPE / WIRE SLEEVE — 24" MIN. COVER	SEE CHART	'K', LI-4	(3)
	UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT	12/14 GA	'L', LI-4	—
	SPARE WIRES PULLED	—	'A', LI-5	—
(1) LANDSCAPE CONTRACTOR TO COORDINATE ELECTRICAL POWER W/ CITY OF BEVERLY HILLS PUBLIC WORKS DEPT. (2) CONTRACTOR TO LOCATE BACKFLOW PREVENTER IN SHRUB AREA AND SCREEN WHENEVER POSSIBLE.				

SPRINKLER LEGEND														
SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM)							PRECOR RATE	DETAIL	NOTES
					Q	T	H	TT	TQ	F	Var			
HI-POP SPRAY HEADS														
	HUNTER PROS-12-PRS40-CV	MP1000	14'	40	0.21		0.42				0.41	'B', LI-5	(1)	
	HUNTER PROS-12-PRS40-CV	MP2000	19'	40			0.77				0.41	'B', LI-5	(1)	
HI-POP ROTOR HEADS														
	HUNTER I-20-12-MPR-25	90/120/180	24'	35	0.88	1.21	1.73				0.61	'C', LI-5	(2)	
	HUNTER I-20-12-MPR-30	90/120/180	30'	35	1.23	1.62	2.59				0.61	'C', LI-5	(2)	
	HUNTER I-20-12-MPR-35	90/120/180	34'	35	1.67	2.15	3.33				0.61	'C', LI-5	(2)	
FIXED RISER ROTOR HEADS														
	HUNTER I-20-00-MPR-25	90/120/180/360	24'	35	0.88	1.21	1.73			3.34	0.61	'D'-F', LI-5	(2)	
	HUNTER I-20-00-MPR-30	90/120/180/360	30'	35	1.23	1.62	2.59			5.08	0.61	'D'-F', LI-5	(2)	
	HUNTER I-20-00-MPR-35	90/120/180/360	34'	35	1.67	2.15	3.33			6.62	0.61	'D'-F', LI-5	(2)	
(1) IN PLANTER AREAS, USE BOTTOM INLET ONLY. (2) CONTRACTOR IS TO USE CHECK VALVES AS REQUIRED TO STOP LOW HEAD DRAINAGE.														

PIPE SIZING CHART	
	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE

SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	2 1/2"-3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE



LANDSCAPE ARCHITECTURE

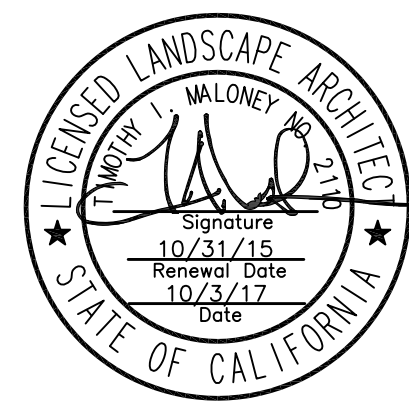
4649 Brockton Ave.
Riverside, CA 92506
Phone: (951) 369-0700
Fax: (951) 369-4039
www.comworksdg.com

GREYSTONE MANSION SLOPE IRRIGATION

CITY OF BEVERLY HILLS
345 FOOTHILL ROAD
BEVERLY HILLS, CA 90210

JOB NUMBER: **170432**
DRAWN BY: **KCK**
CHECKED BY: **SJR**
DATE: **10/3/17**

REVISIONS:
1 3/8/18-REMOVE P2 LAYOUT, ADD CONT. 2 PWR NOTE



IRRIGATION PLAN

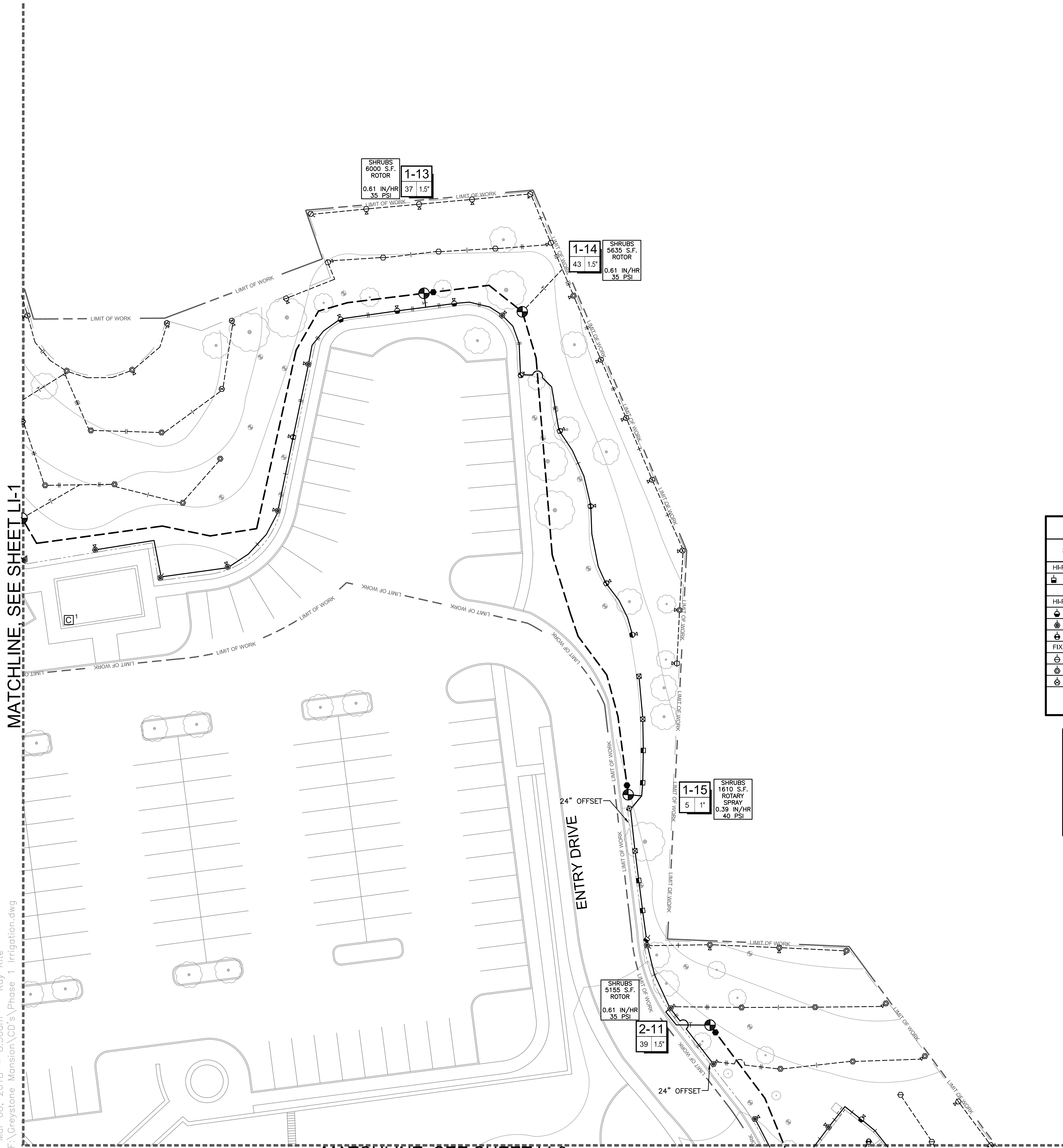
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LI-1









SHEET 2 OF 6

Mar 08, 2018 -- 8:50am -- Kay Kite
F:\Greystone Mansion\CD's\Phase 1 Irrigation.dwg



EQUIPMENT LEGEND				
SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
	INSTALL NEW IRRIGATION WATER METER PER CITY OF BEVERLY HILLS PUBLIC WORKS STANDARDS	2"	N/A	—
	EXISTING HUNTER ACC CONTROLLER TO REMAIN, PROTECT IN PLACE. WIRE NEW VALVES TO FIRST AVAILABLE STATIONS. ADD A2C-600 EXPANSION MODULE IF NECESSARY	42 STA.	—	(1,2)
	HUNTER A2C-1200-SS IRRIGATION CONTROLLER EQUIPPED WITH A2C-600 EXPANSION MODULE AND SOLAR SYNC ET SENSOR	18 STA.	'A', LI-4	(1,2)
	EXISTING BACKFLOW PREVENTER TO REMAIN, PROTECT IN PLACE. INSTALL NEW WATER METER UPSTREAM OF BFP	2"	—	(4)
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER LOCATED IN A STRONG BOX SBBC-45SS VANDAL RESISTANT ENCLOSURE	2"	'B', LI-4	(4)
	HUNTER IBV-301G MASTER VALVE	3"	'C', LI-4	(3)
	HUNTER HFS FLOW SENSOR WITH FCT-208 RECEPTACLE TEE	2"	'D', LI-4	(6,7)
	NIBCO P-619 GATE VALVE	3"	'E', LI-4	(3)
	RAINBIRD #33DLRC SERIES QUICK COUPLING VALVE	3/4"	'F', LI-4	(3)
	RAINBIRD EFB-CP SERIES REMOTE CONTROL VALVE WITH PRS-D DIAL	PLAN SIZE	'G', LI-4	(3)
	EXISTING IRRIGATION MAINLINE TO REMAIN, PROTECT IN PLACE	3"	—	(3)
	CLASS 315 PVC IRRIGATION MAINLINE — 18" MIN. COVER	3"	'H', LI-4	(3)
	SCH 40 PVC NON-PRESSURE LATERAL LINE — 12" MIN. COVER	PLAN SIZE	'H', LI-4	(3)
	SCH 40 UV RESISTANT PVC NON-PRESSURE LATERAL LINE	PLAN SIZE	'I'&'J', LI-4	(3)
	SCH 40 PVC IRRIGATION PIPE / WIRE SLEEVE — 24" MIN. COVER	SEE CHART	'K', LI-4	(3)
	NOT SHOWN UF RATED CONTROL WIRE, 12 GA COMMON, 14 GA PILOT	12/14 GA	'L', LI-4	—
	SPARE WIRES PULLED	—	'A', LI-5	—

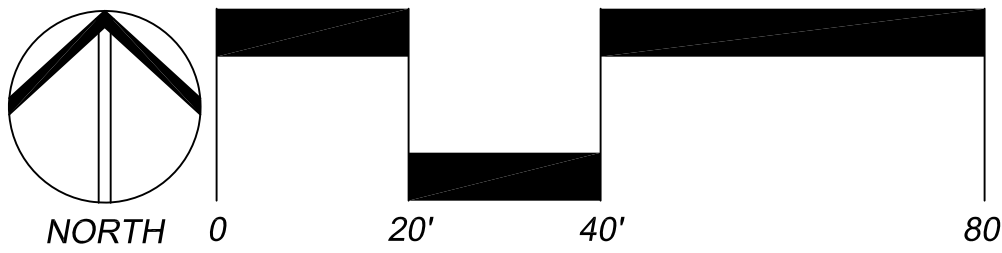
(1) LANDSCAPE CONTRACTOR TO COORDINATE ELECTRICAL POWER W/ CITY OF BEVERLY HILLS PUBLIC WORKS DEPT.
(2) CONTRACTOR TO LOCATE BACKFLOW PREVENTER IN SHRUB AREA AND SCREEN WHENEVER POSSIBLE.

SPRINKLER LEGEND														
SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM)							PRECIP RATE	DETAIL	NOTES
					Q	T	H	TT	TQ	F	Van			
HI-POP SPRAY HEADS														
	HUNTER PROS-12-PRS40-CV	MP1000	14'	40	0.21		0.42				0.41	'B', LI-5	(1)	
	HUNTER PROS-12-PRS40-CV	MP2000	19'	40			0.77				0.41	'B', LI-5	(1)	
HI-POP ROTOR HEADS														
	HUNTER I-20-12-MPR-25	90/120/180	24'	35	0.88	1.21	1.73				0.61	'C', LI-5	(2)	
	HUNTER I-20-12-MPR-30	90/120/180	30'	35	1.23	1.62	2.59				0.61	'C', LI-5	(2)	
	HUNTER I-20-12-MPR-35	90/120/180	34'	35	1.67	2.15	3.33				0.61	'C', LI-5	(2)	
FIXED RISER ROTOR HEADS														
	HUNTER I-20-00-MPR-25	90/120/180/360	24'	35	0.88	1.21	1.73			3.34	0.61	'D'-F', LI-5	(2)	
	HUNTER I-20-00-MPR-30	90/120/180/360	30'	35	1.23	1.62	2.59			5.08	0.61	'D'-F', LI-5	(2)	
	HUNTER I-20-00-MPR-35	90/120/180/360	34'	35	1.67	2.15	3.33			6.62	0.61	'D'-F', LI-5	(2)	
(1) IN PLANTER AREAS, USE BOTTOM INLET ONLY.														
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PIPE SIZING CHART	
	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE

SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	2 1/2"-3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE



LANDSCAPE ARCHITECTURE

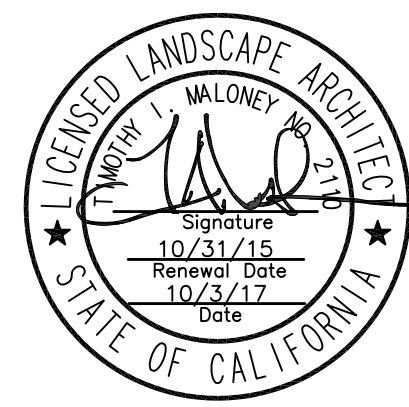
4649 Brockton Ave.
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GREYSTONE MANSION
SLOPE IRRIGATION

CITY OF BEVERLY HILLS
345 FOOTHILL ROAD
BEVERLY HILLS, CA 90210

JOB NUMBER: 170432
DRAWN BY: KCK
CHECKED BY: SJR
DATE: 10/3/17

REVISIONS:
1 3/8/18-REMOVE P2 LAYOUT, ADD CONT. 2 PWR NOTE



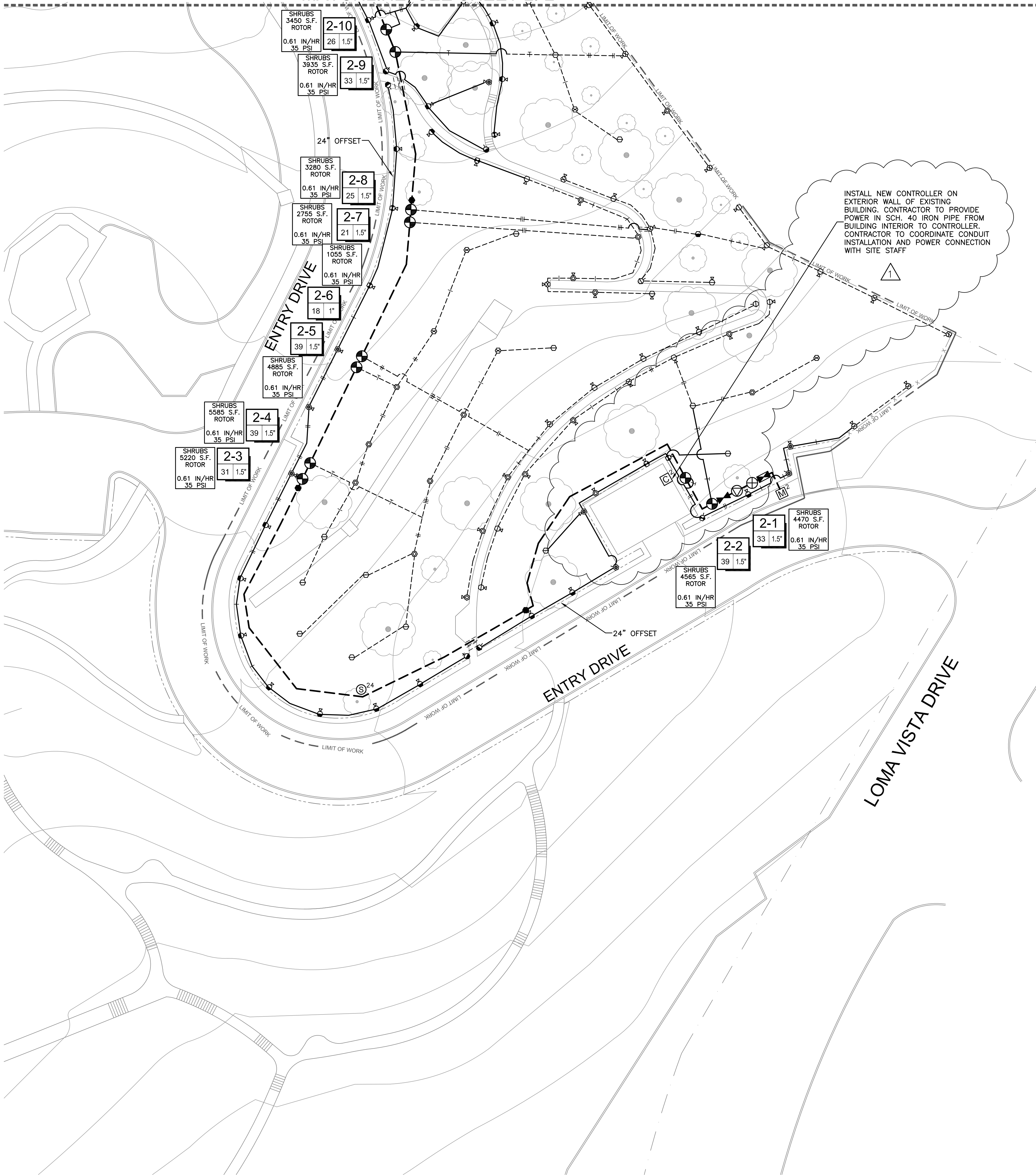
IRRIGATION PLAN


SCALE: 1"=20'-0"









811
Know what's below.
Call before you dig.

LI-2
SHEET 3 OF 6

MATCHLINE, SEE SHEET LI-2



EQUIPMENT LEGEND				
SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL	NOTES
	INSTALL NEW IRRIGATION WATER METER PER CITY OF BEVERLY HILLS PUBLIC WORKS STANDARDS	2"	N/A	-
	EXISTING HUNTER ACC CONTROLLER TO REMAIN, PROTECT IN PLACE. WIRE NEW VALVES TO FIRST AVAILABLE STATIONS. ADD A2C-600 EXPANSION MODULE IF NECESSARY	42 STA.	-	(1,2)
	HUNTER A2C-1200-SS IRRIGATION CONTROLLER EQUIPPED WITH A2C-600 EXPANSION MODULE AND SOLAR SYNC ET SENSOR	18 STA.	'A', LI-4	(1,2)
	EXISTING BACKFLOW PREVENTER TO REMAIN, PROTECT IN PLACE. INSTALL NEW WATER METER UPSTREAM OF BFP	2"	-	(4)
	FEBCO 825Y REDUCED PRESSURE BACKFLOW PREVENTER LOCATED IN A STRONG BOX SBBC-45SS VANDAL RESISTANT ENCLOSURE	2"	'B', LI-4	(4)
	HUNTER IBV-301G MASTER VALVE	3"	'C', LI-4	(3)
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	CLASS 315 PVC IRRIGATION MAINLINE - 18" MIN. COVER	3"	'H', LI-4	(3)
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	SPARE WIRES PULLED	-	'A', LI-5	-
(1) LANDSCAPE CONTRACTOR TO COORDINATE ELECTRICAL POWER W/ CITY OF BEVERLY HILLS PUBLIC WORKS DEPT. (2) CONTRACTOR TO LOCATE BACKFLOW PREVENTER IN SHRUB AREA AND SCREEN WHENEVER POSSIBLE.				

SPRINKLER LEGEND													
SYMBOL	MANUFACTURER/MODEL #	NOZZLE	RAD.	PSI	FLOW (GPM)						PRECIP RATE	DETAIL	NOTES
					Q	T	H	TT	TQ	F			
HI-POP SPRAY HEADS													
	HUNTER PROS-12-PRS40-CV	MP1000	14'	40	0.21		0.42				0.41	'B', LI-5	(1)
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HI-POP ROTOR HEADS													
	HUNTER I-20-12-MPR-25	90/120/180	24'	35	0.88	1.21	1.73				0.61	'C', LI-5	(2)
	HUNTER I-20-12-MPR-30	90/120/180	30'	35	1.23	1.62	2.59				0.61	'C', LI-5	(2)
	HUNTER I-20-12-MPR-35	90/120/180	34'	35	1.67	2.15	3.33				0.61	'C', LI-5	(2)
FIXED RISER ROTOR HEADS													
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	HUNTER I-20-00-MPR-35	90/120/180/360	34'	35	1.67	2.15	3.33			6.62	0.61	'D'-F', LI-5	(2)
(1) IN PLANTER AREAS, USE BOTTOM INLET ONLY. (2) CONTRACTOR IS TO USE CHECK VALVES AS REQUIRED TO STOP LOW HEAD DRAINAGE.													

PIPE SIZING CHART	
	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE
	8" PIPE

STATION # / CONTROLLER	
FLOW (GPM)	VALVE SIZE

SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
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3" SLEEVE	31-40 WIRES	1 1/2" PIPE
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345 FOOTHILL ROAD
BEVERLY HILLS, CA 90210

JOB NUMBER: 170432
DRAWN BY: KCK
CHECKED BY: SJR
DATE: 10/3/17

REVISIONS:
1 3/8/18-REMOVE P2 LAYOUT, ADD CONT. 2 PWR NOTE



IRRIGATION PLAN

SCALE: 1"=20'-0"

811
Know what's below.
Call before you dig.

LI-3

SHEET 4 OF 6



LANDSCAPE ARCHITECTURE

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Riverside, CA 92506
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GREYSTONE
MANSION
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DATE: 10/3/17

REVISIONS:
3/8/18-REMOVE P2 LAYOUT,
ADD CONT. 2 PWR NOTE



IRRIGATION
DETAILS

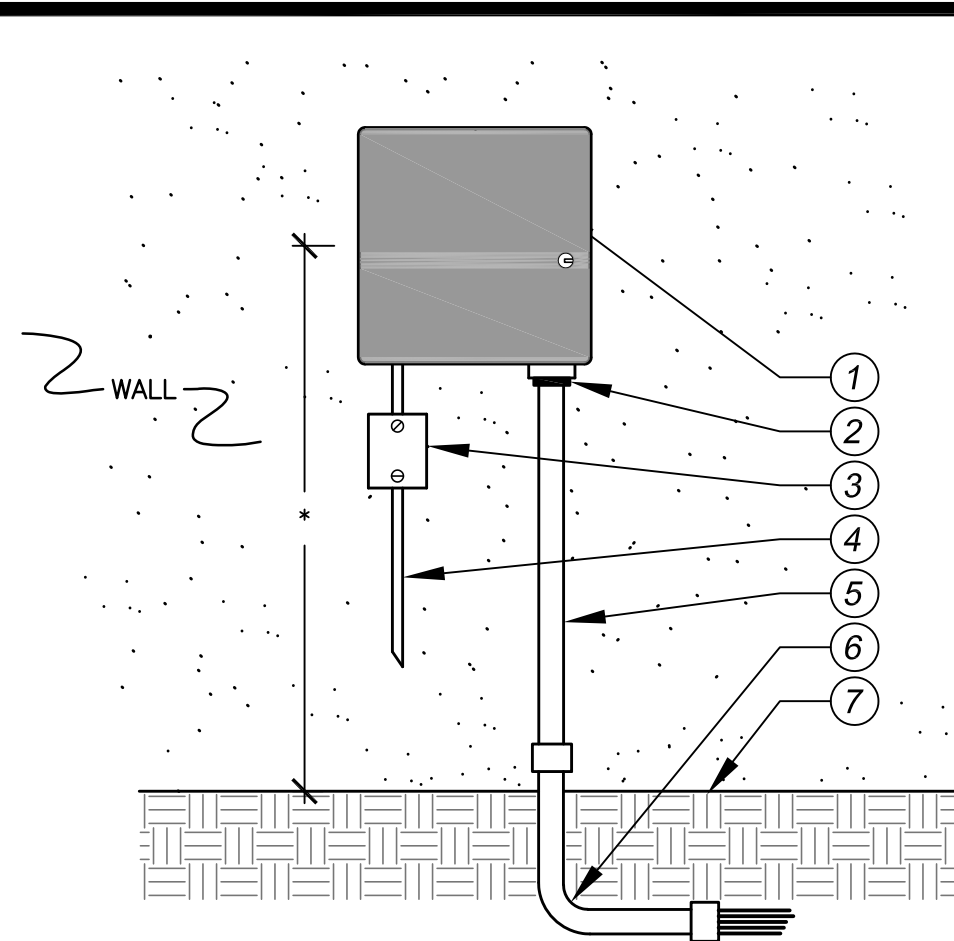
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Know what's below.
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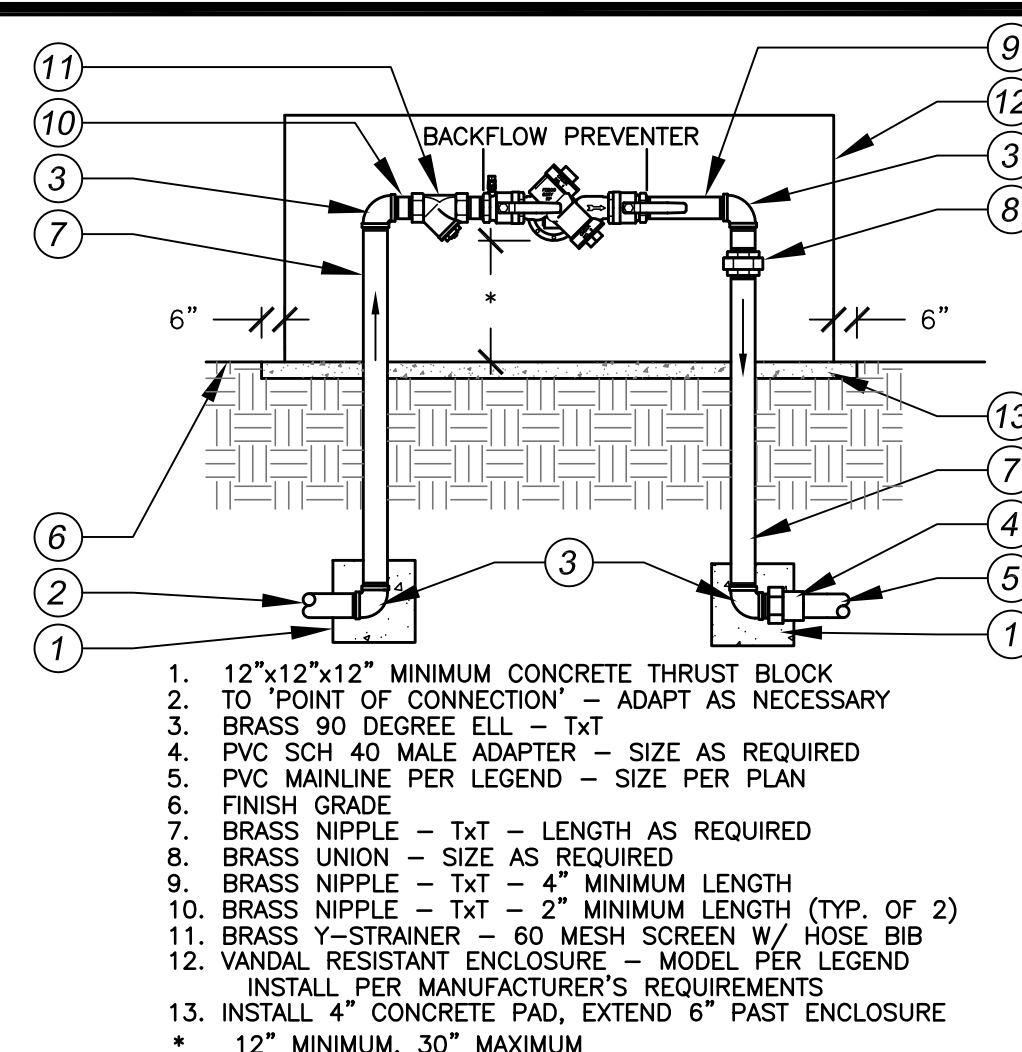
LI-4

SHEET 5 OF 6



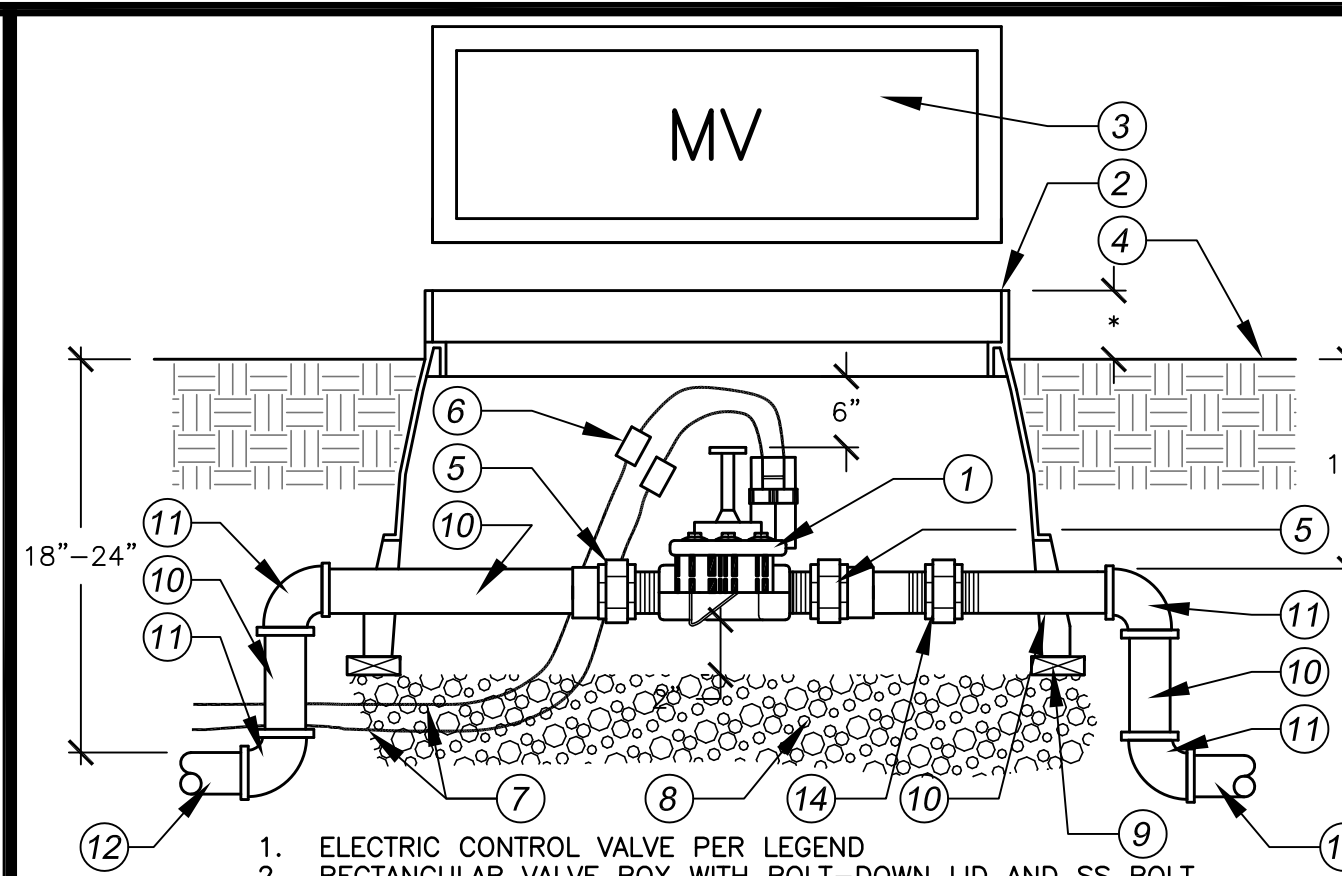
1. WALL MOUNT CONTROLLER - MOUNT PER MANUFACTURER
2. LOCKING NUT
3. ELECTRICAL JUNCTION BOX
4. 120V WIRES IN RIGID CONDUIT PER LOCAL CODES
5. RIGID CONDUIT FOR COMMON / CONTROL WIRES
6. SWEEP ELL - SIZE AS REQUIRED
7. FINISH GRADE (FLOOR SURFACE FOR INDOOR MOUNT)

* MOUNT CONTROLLER AT "EYE-LEVEL" (+/- 5'-0")

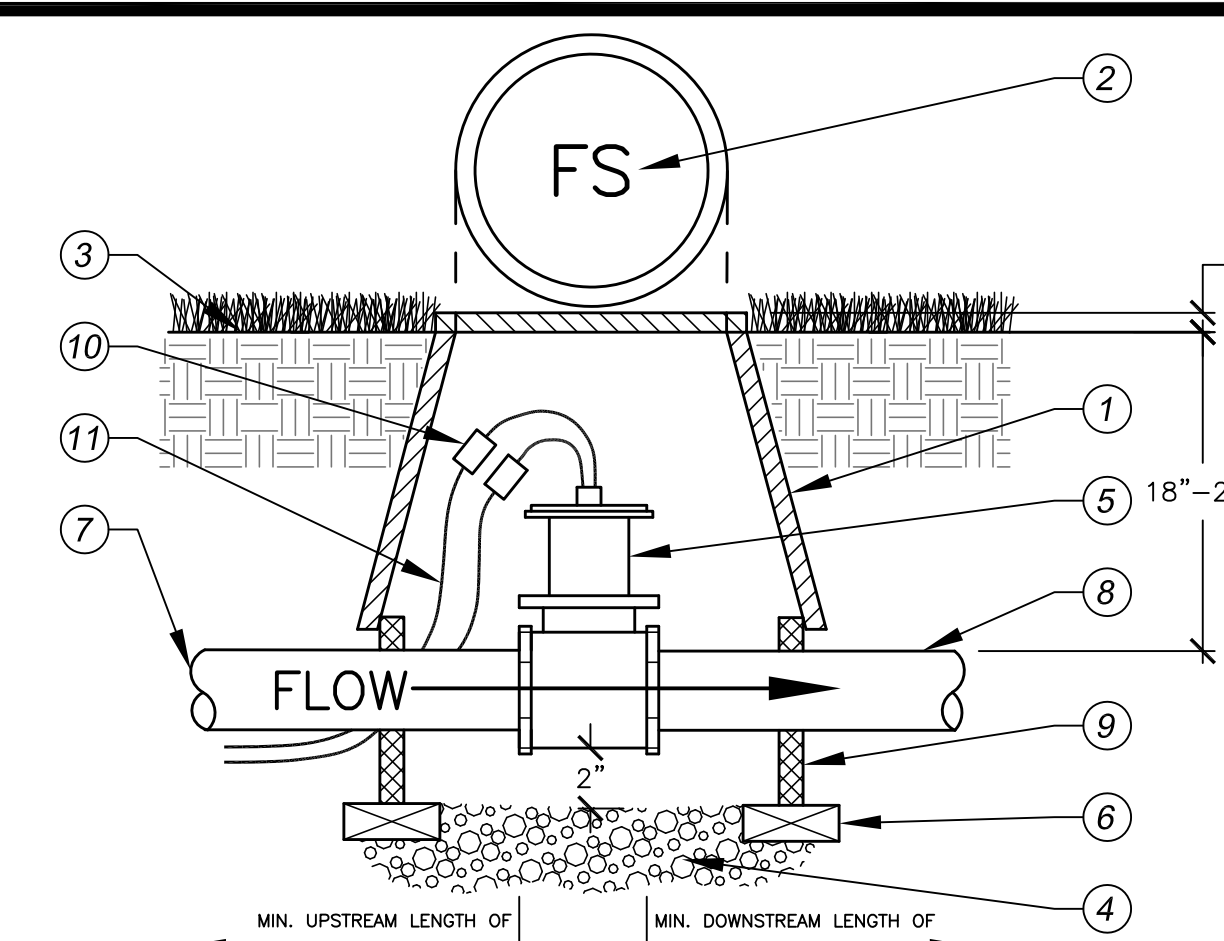


1. 12"x12"x12" MINIMUM CONCRETE THRUST BLOCK TO POINT OF CONNECTION - ADAPT AS NECESSARY
2. BRASS 90 DEGREE ELL - T&T
3. PVC SCH 40 MALE ADAPTER - SIZE AS REQUIRED
4. PVC MAINLINE PER LEGEND - SIZE PER PLAN
5. FINISH GRADE
6. BRASS NIPPLE - T&T - LENGTH AS REQUIRED
7. BRASS UNION - SIZE AS REQUIRED
8. BRASS NIPPLE - T&T - 4" MINIMUM LENGTH
9. BRASS NIPPLE - T&T - 2" MINIMUM LENGTH (TYP. OF 2)
10. BRASS Y-STRAINER - 60 MESH SCREEN W/ HOSE BIB
11. BRASS Y-STRAINER - 60 MESH SCREEN W/ HOSE BIB
12. VANDAL RESISTANT ENCLOSURE - MODEL PER LEGEND
13. INSTALL PER MANUFACTURER'S REQUIREMENTS
14. INSTALL 4" CONCRETE PAD, EXTEND 6" PAST ENCLOSURE
15. 12" MINIMUM, 30" MAXIMUM

NOTES:
INSTALL BACKFLOW PREVENTER PER LOCAL CODES, HEALTH DEPARTMENT STANDARDS, AND MANUFACTURER'S DIRECTIONS. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION. WHERE BACKFLOW DEVICE SIZE IS SMALLER THAN MAINLINE, ENTIRE APPARATUS TO BE SIZE OF MAINLINE. BUSH DOWN ONLY AT THE BACKFLOW DEVICE. FINAL LOCATION OF DEVICE TO BE DETERMINED IN THE FIELD. BACKFLOW TO BE LOCATED IN PLANTER AREA AND SCREENED WITH SHRUBS AS POSSIBLE.

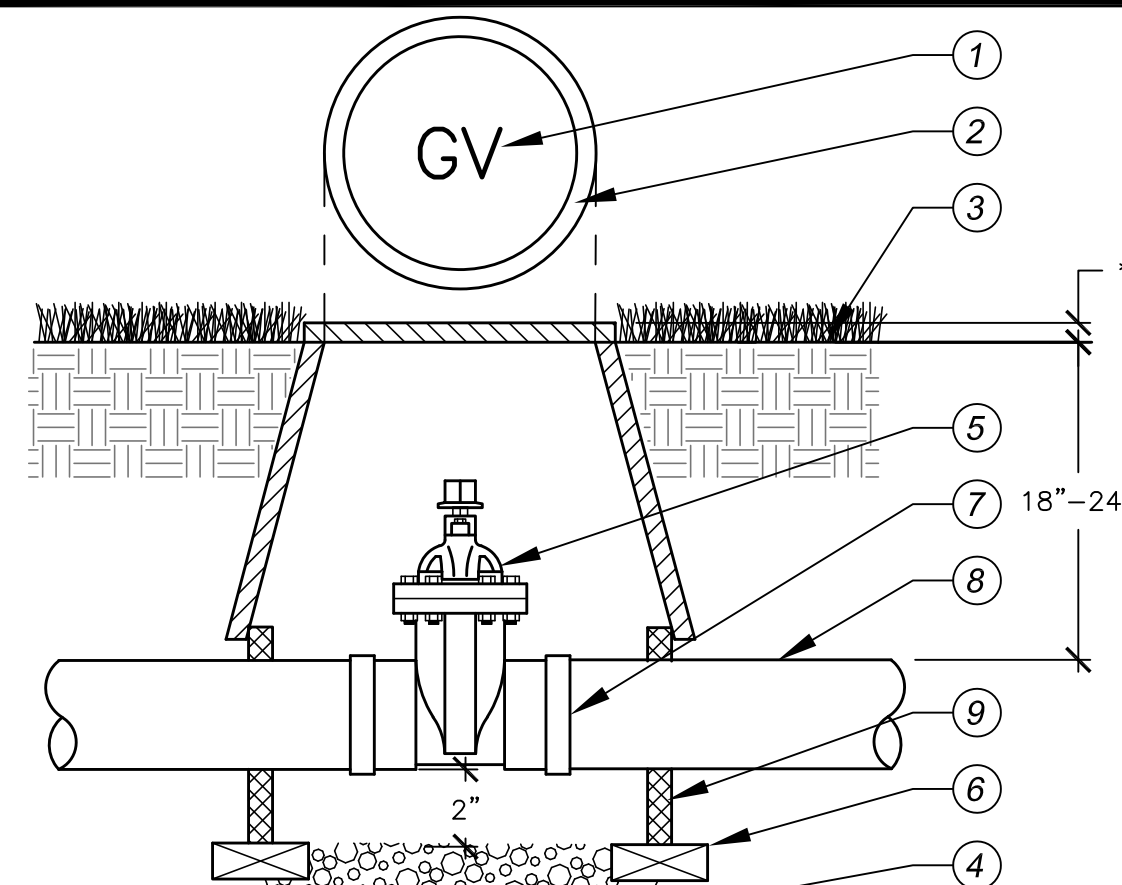


1. ELECTRIC CONTROL VALVE PER LEGEND
2. RECTANGULAR VALVE BOX WITH BOLT-DOWN LID AND SS BOLT
3. HEAT BRAND "MV" ON LID IN 2" HIGH CHARACTERS
4. FINISH GRADE
5. PVC SCH 40 MALE ADAPTER
6. WATERPROOF WIRE CONNECTION W/36" EXPANSION LOOP
7. #14 UF WIRES TO CONTROLLER MASTER VALVE OUTPUT
8. 3/4" CRUSHED ROCK - 6" DEEP
9. COMMON BRICK - 4 REQUIRED
10. PVC MAINLINE PER LEGEND - LENGTH AS REQUIRED
11. PVC SCH 40 ELL - SxS
12. MAINLINE PIPING FROM POINT OF CONNECTION
13. MAINLINE PIPING TO CONTROL VALVES
14. PVC UNION - SIZE AS REQUIRED
15. 1/2" IN TURF AREAS, 2" IN SHRUB AREAS



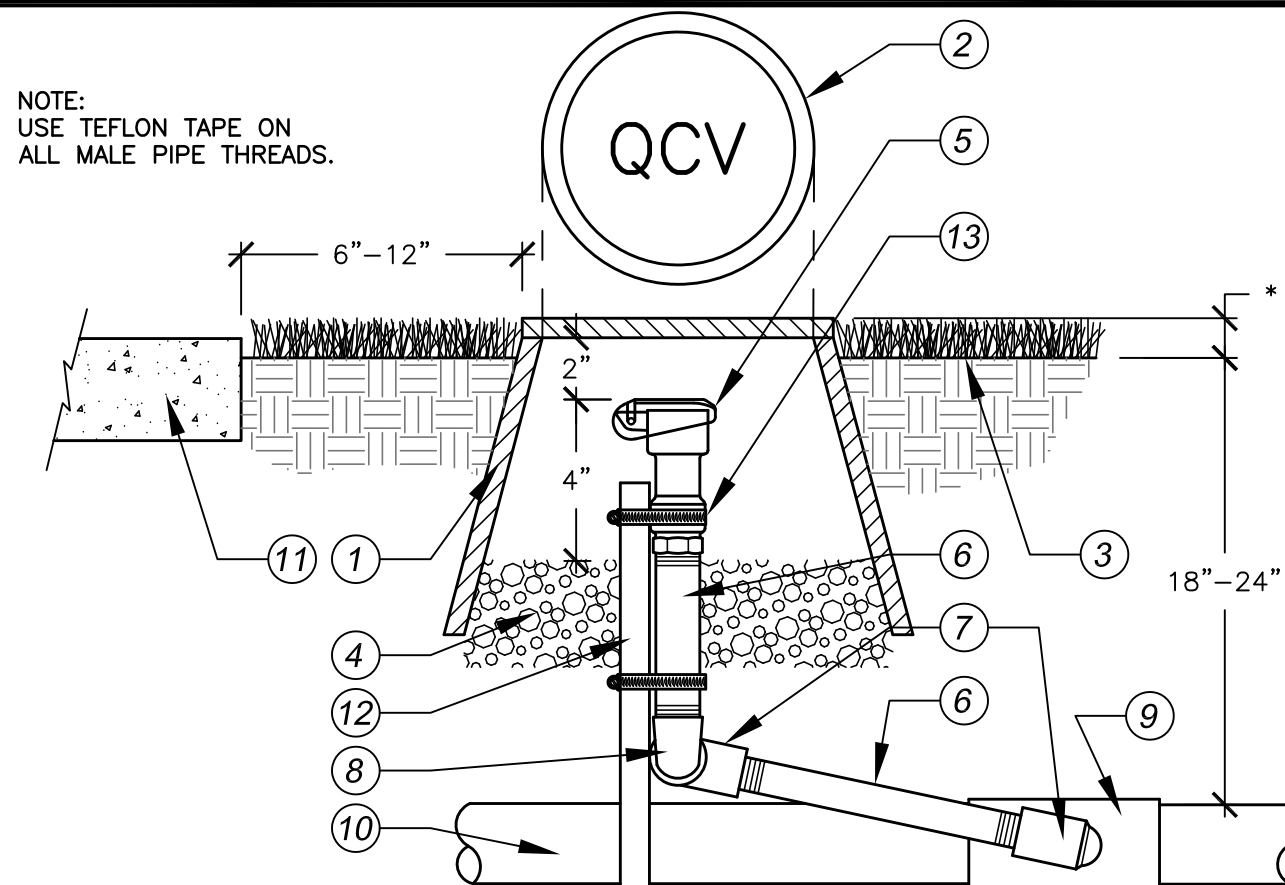
1. 10" ROUND PLASTIC VALVE BOX WITH LOCKING LID AND SS BOLT
2. HEAT BRAND "FS" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK - 4" DEEP
5. FLOW SENSOR PER LEGEND
6. COMMON BRICK - 4 REQUIRED
7. PVC MAINLINE FROM POC - PER LEGEND
8. PVC MAINLINE TO SYSTEM - PER LEGEND
9. VALVE BOX EXTENSIONS AS REQUIRED
10. WATERPROOF WIRE CONNECTORS WITH 36" EXPANSION LOOP
11. CABLE TO TRANSMITTER/CONTROLLER PER MANUFACTURER
12. 1/2" IN TURF AREAS
13. 2" IN SHRUB AREAS

MIN. UPSTREAM LENGTH OF STRAIGHT PIPE = 10x PIPE DIA.
MIN. DOWNSTREAM LENGTH OF STRAIGHT PIPE = 5x PIPE DIA.

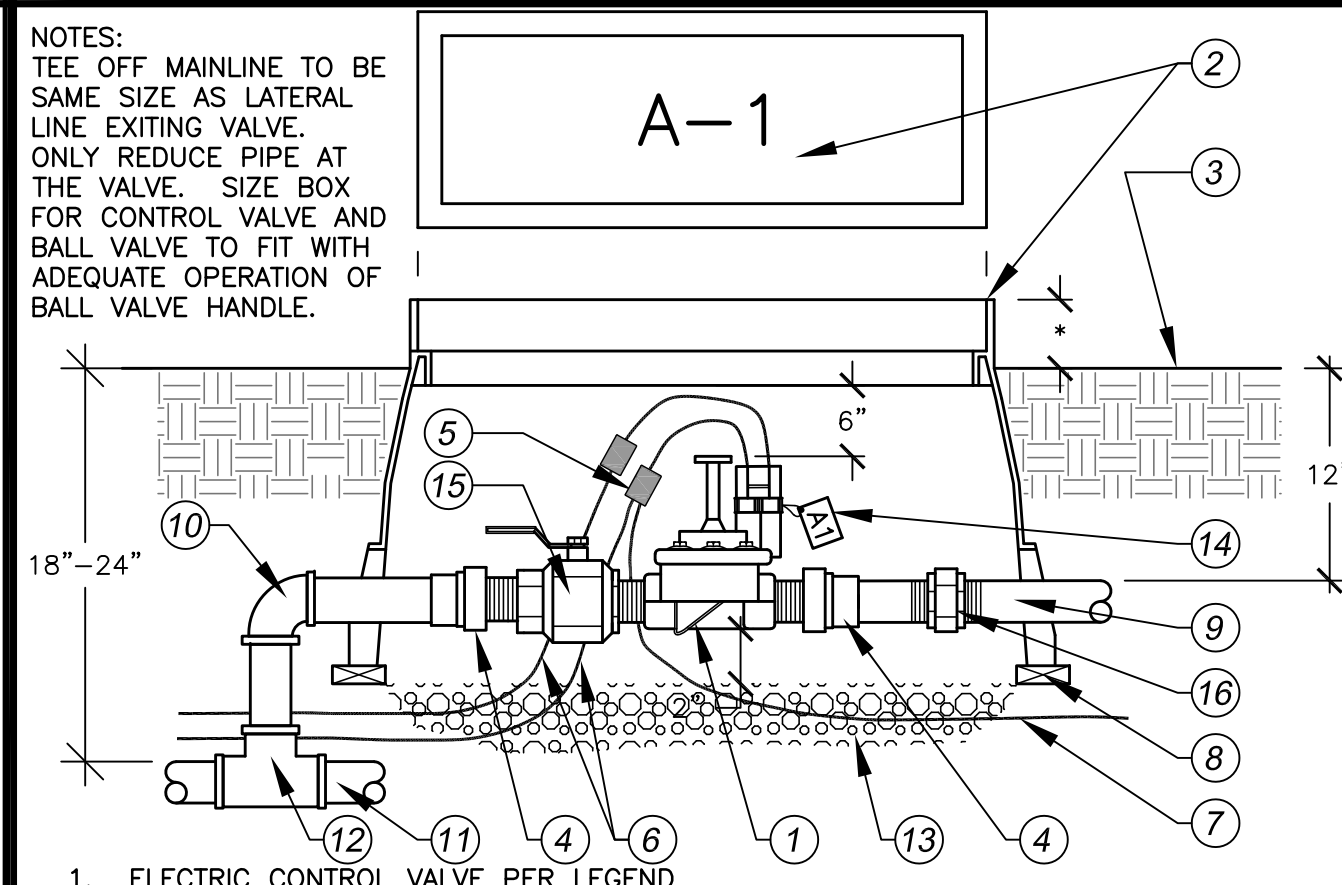


1. ROUND PLASTIC VALVE BOX WITH LOCKING LID AND SS BOLT SIZED AS REQUIRED
2. HEAT BRAND "GV" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK - 4" DEEP
5. GATE VALVE PER LEGEND
6. COMMON BRICK - 4 REQUIRED
7. ADAPT TO MAINLINE AS NECESSARY
8. MAINLINE PIPING PER LEGEND
9. VALVE BOX EXTENSIONS AS REQUIRED
10. 1/2" IN TURF AREAS, 2" IN SHRUB AREAS

NOTES:
USE TEFLON TAPE ON ALL MALE PIPE THREADS.

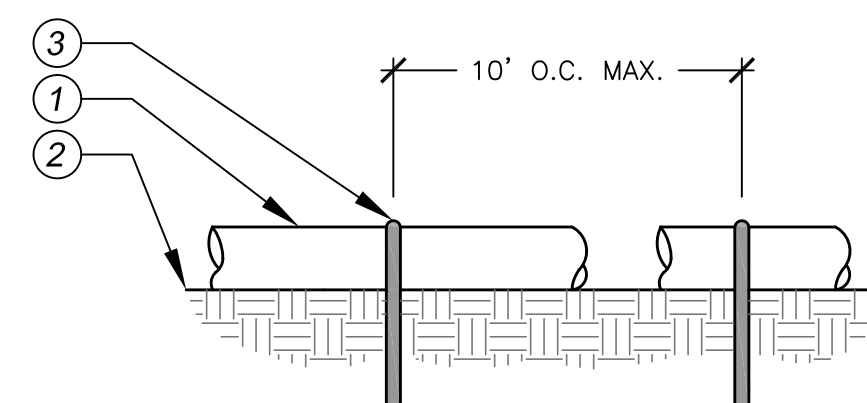


1. 10" ROUND PLASTIC VALVE BOX WITH LOCKING LID AND SS BOLT
2. HEAT BRAND "QCV" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK - 4" DEEP
5. QUICK COUPLER PER LEGEND
6. PVC SCH 80 NIPPLE - LENGTH AS REQUIRED
7. PVC SCH 40 STREET ELL - T&T
8. PVC SCH 40 ELL - T&T
9. SCH 40 PVC MAINLINE FITTING AND SS BOLT
10. PVC SCH 40 MAINLINE PIPING PER EQUIPMENT LEGEND
11. WALK, CURB, OR WALL, ETC.
12. #4 REBAR, 18" MINIMUM LENGTH SUPPORT STAKE
13. STAINLESS STEEL CLAMP - 2 REQ.
14. 1/2" IN TURF AREAS, 2" IN SHRUB AREAS

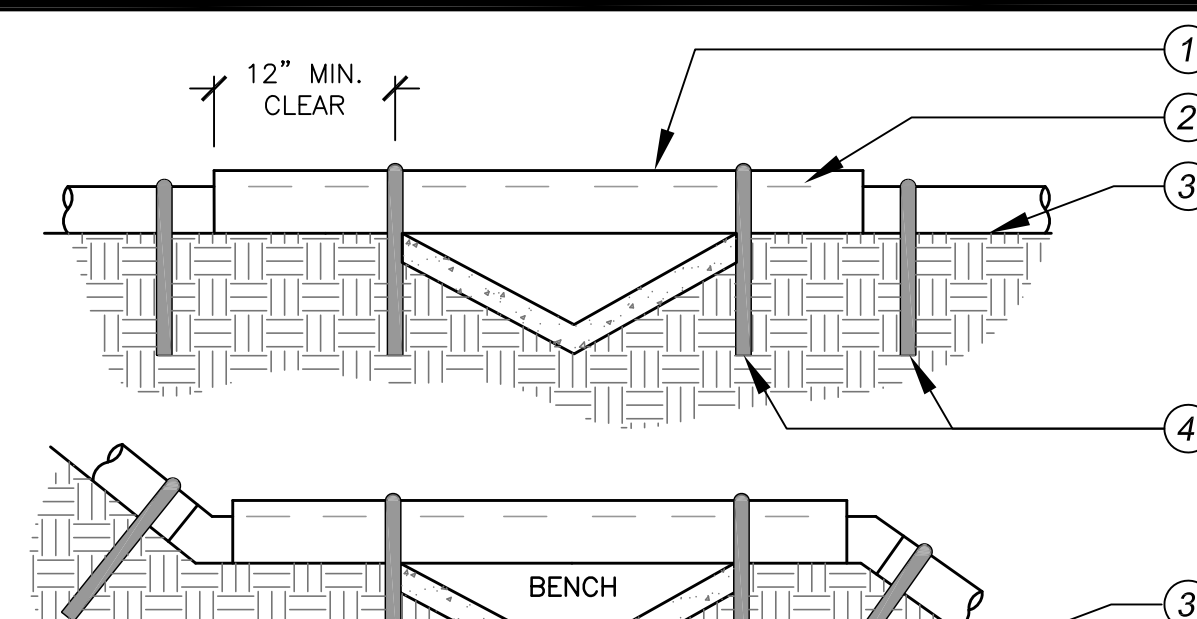


1. ELECTRIC CONTROL VALVE PER LEGEND
2. "JUMBO" PLASTIC VALVE BOX WITH BOLT-DOWN LID AND SS BOLT - HEAT BRAND STATION NUMBER ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. PVC SCH 40 MALE ADAPTER - SIZE AS REQUIRED - TYP. OF 2
5. WATERPROOF WIRE CONNECTOR WITH 36" COILED EXPANSION LOOP
6. WIRES FROM CONTROLLER
7. COMMON WIRE TO OTHER VALVES ON SAME CONTROLLER
8. COMMON BRICK - 4 REQUIRED
9. PVC LATERAL LINE PER LEGEND
10. PVC SCH 40 ELL - SxS
11. PVC MAINLINE PER LEGEND
12. SCH 40 PVC MAINLINE FITTING
13. 3/4" GRAVEL - 6" DEEP
14. "CHRISTY'S" L.D. TAG OR EQUAL
15. BALL VALVE PER EQUIPMENT LEGEND
16. PVC UNION - SIZE AS REQUIRED

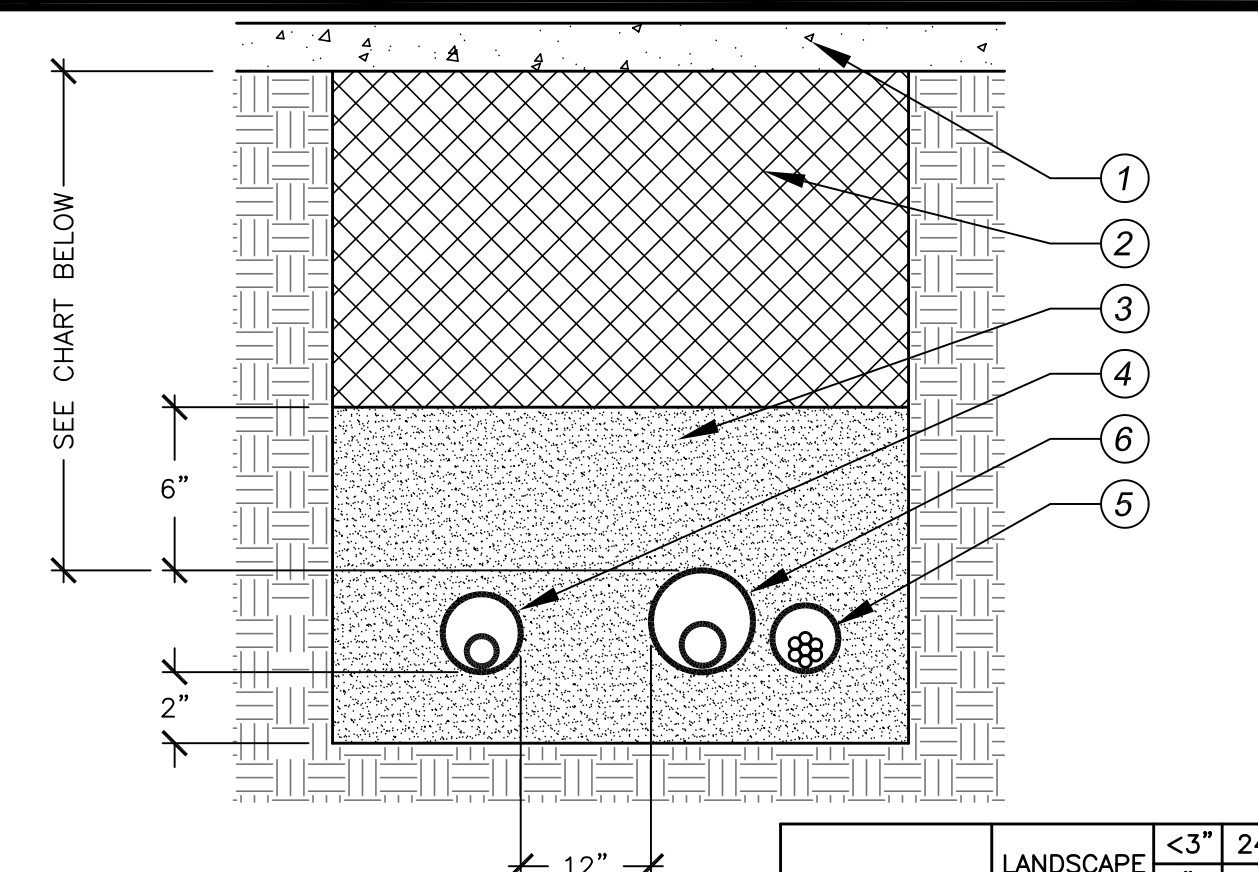
* 1/2" IN TURF, 2" IN PLANTER



1. UV RATED PVC PIPE INSTALLED ON GRADE. PIPE TO BE SCH 40 OR AS NOTED IN THE LEGEND.
2. FINISH GRADE
3. #3x24" REBAR STAKE WITH A "J-HOOK" ON ONE END TO SECURE PIPE TO SLOPE. INSTALL AT A MAXIMUM OF 10' O.C. FOR STRAIGHT PIPE RUNS, AND INSTALL AT ALL OF THE FOLLOWING LOCATIONS:
 - a) AT ALL TEES
 - b) AT ALL ELBOWS
 - c) AT ALL HEADS
 - d) AT ALL ATMOSPHERIC VACUUM BREAKERS
 - e) ANY OTHER LOCATION THE PIPE NEEDS TO BE SECURED TO PREVENT THE PIPE FROM "SAGGING" ON THE SLOPE.



1. 2 TIMES LINE SIZE GALVANIZED STEEL SLEEVE.
2. UV RATED PVC PIPE INSTALLED ON GRADE. PIPE TO BE SCH 40 OR AS NOTED IN THE LEGEND.
3. FINISH GRADE
4. #3x24" REBAR STAKE WITH A "J-HOOK" ON ONE END TO SECURE PIPE TO SLOPE. INSTALL AT A MAXIMUM OF 10' O.C. FOR STRAIGHT PIPE RUNS, AND INSTALL AT ALL OF THE FOLLOWING LOCATIONS:
 - a) AT ALL TEES
 - b) AT ALL ELBOWS
 - c) AT ALL HEADS
 - d) AT ALL ATMOSPHERIC VACUUM BREAKERS
 - e) ANY OTHER LOCATION THE PIPE NEEDS TO BE SECURED TO PREVENT THE PIPE FROM "SAGGING" ON THE SLOPE.

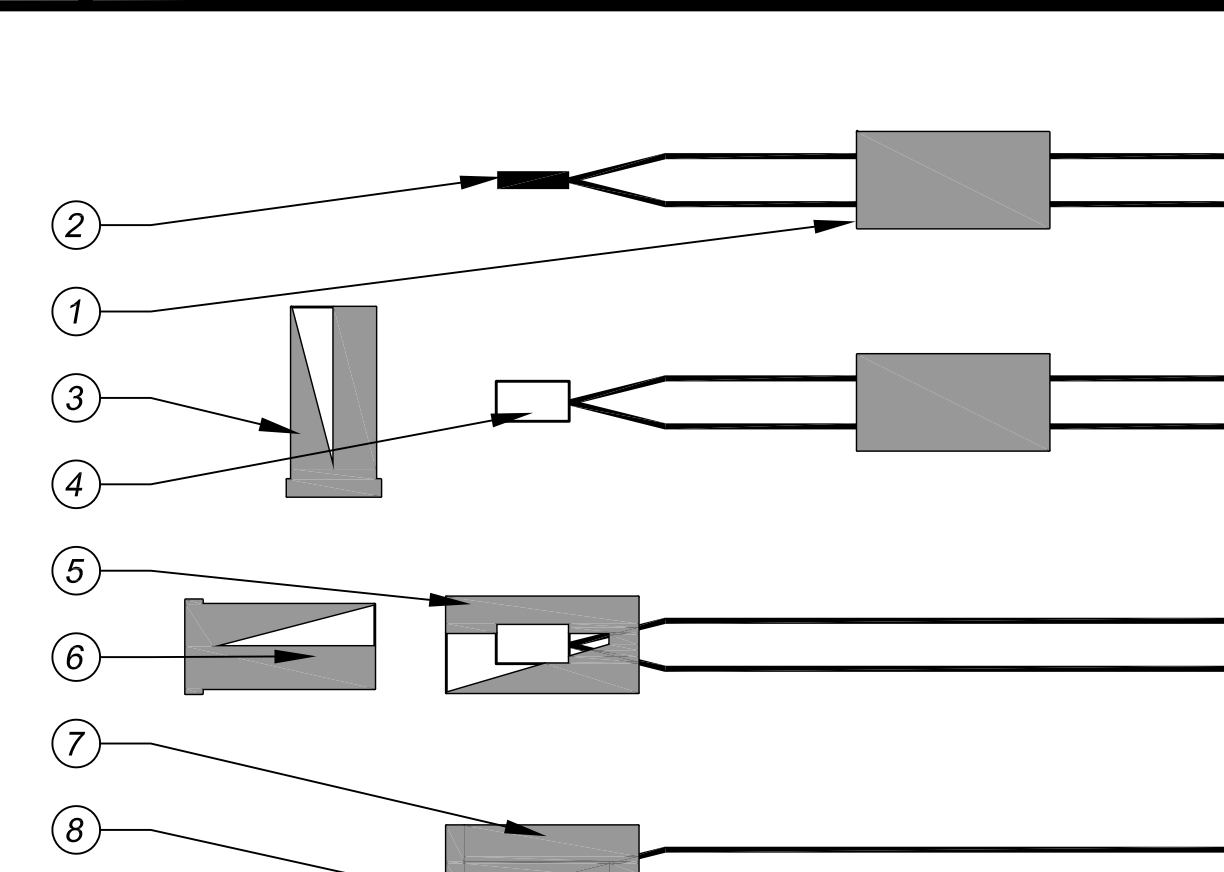


1. HARDSCAPE (TYPICAL)
2. CLEAN BACKFILL - 90% COMPACTION REQUIRED - SEE SPECS
3. SAND (TYPICAL)
4. NON-PRESSURE LATERAL LINE/ SLEEVE (SIZE PER CHART)
5. CONTROL WIRE SLEEVE ADJACENT TO MAINLINE SLEEVE (SIZE PER CHART)
6. PRESSURE SUPPLY LINE / SLEEVE (SIZE PER CHART)

NOTES:
SIZE ALL SLEEVES PER SLEEVING CHART ON PLANS. EXTEND SLEEVES 12" BEYOND EDGE OF HARDSCAPE ON BOTH ENDS. RECLAIMED WATER SLEEVES TO BE A MINIMUM 42"-48" DEEP (OR PER WATER DISTRICT STANDARDS) WHERE APPLICABLE.

		LANDSCAPE	
		<3"	24"
PRESSURE MAINLINE	VEHICULAR PAVING	<3"	30"
	LANDSCAPE	<3"	36"
NON PRESSURE LATERAL	VEHICULAR PAVING	<3"	12"
	LANDSCAPE	<3"	18"

H Trenching



1. SLIP BASE SOCKET OVER END OF WIRES
2. STRIP WIRES APPROX. 5/8" FROM ENDS - TWIST TOGETHER
3. APPLY SEALER TO OUTSIDE OF SEALING PLUG AND FILL CAVITY WITH SEALER
4. PUT CRIMP END OVER WIRE ENDS - CRIMP SLEEVE AND CUT OFF EXCESS WIRE
5. PULL BASE SOCKET OVER END OF WIRES AS FAR AS POSSIBLE
6. PUSH SEALING PLUG INTO BASE SOCKET
7. PUSH WIRES TO END OF BASE SOCKET TO INSURE COMPLETE SEALING OF CONNECTION
8. COMPLETED WATERPROOF WIRE CONNECTION

L Wire Connections

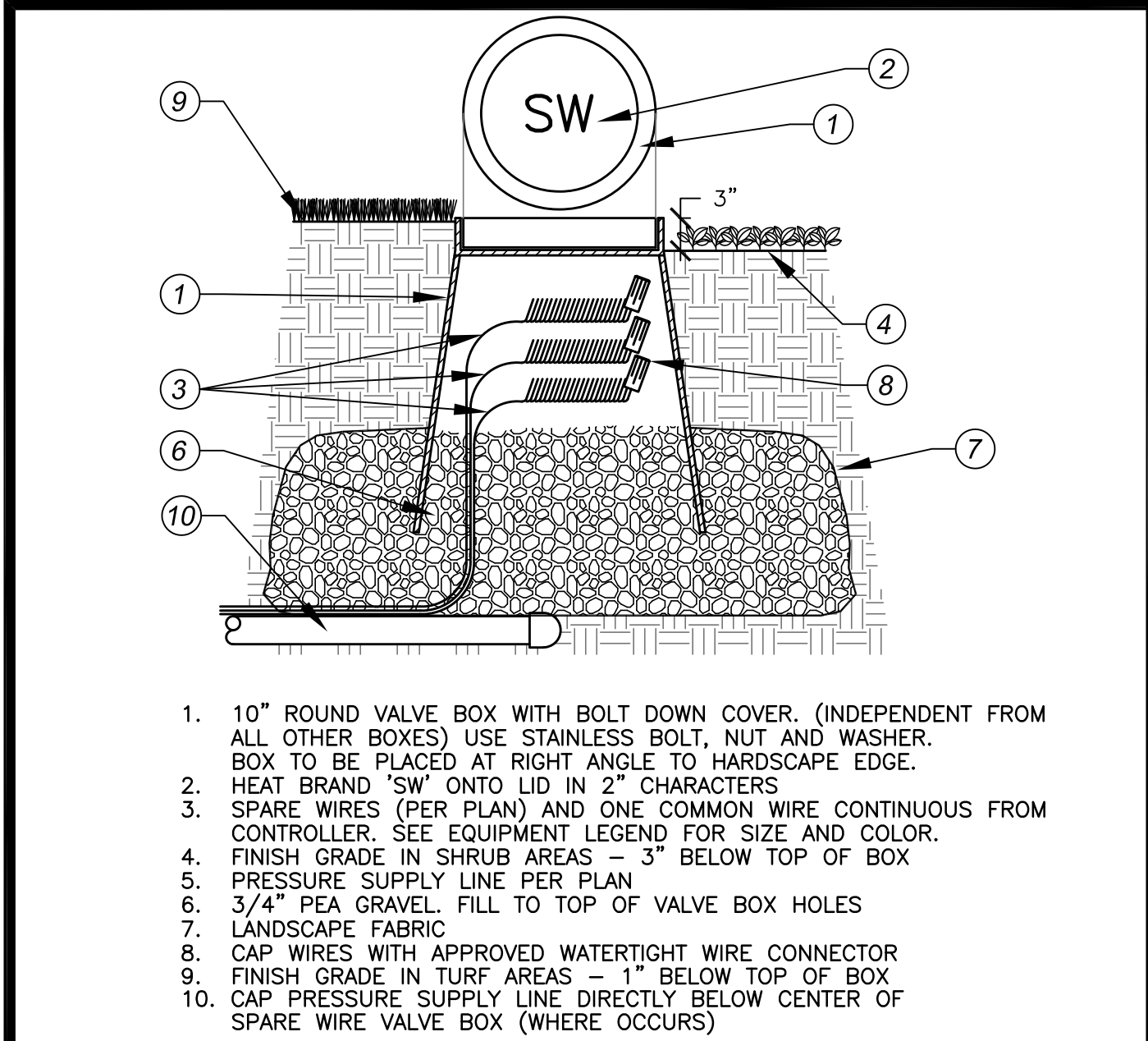
I On-Grade Lateral Pipe

J On-Grade Pipe Over V-Ditch

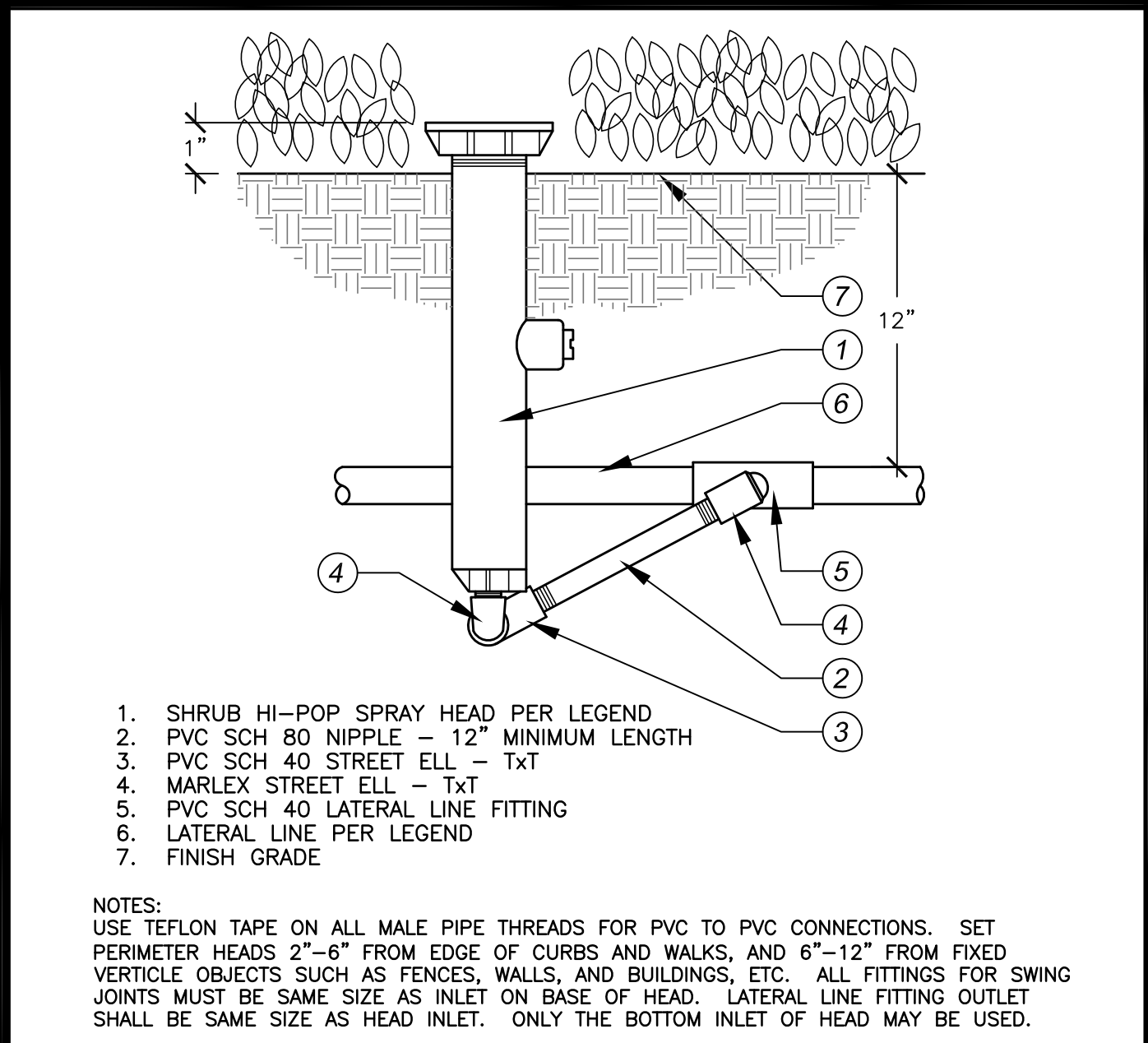
K Sleeving

L Wire Connections

Mar 08, 2018 - 8:51am Kay Kite
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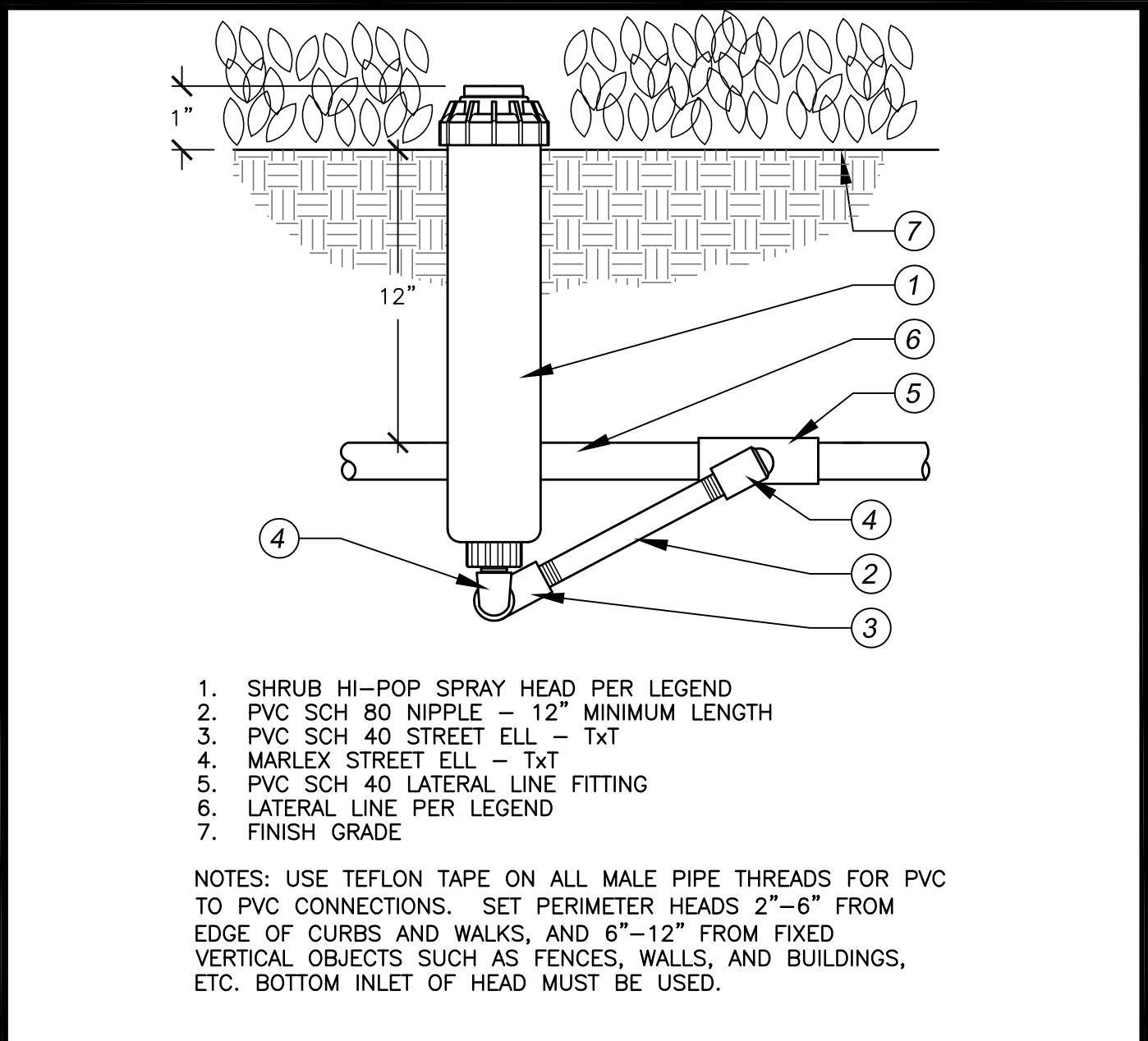


- 10" ROUND VALVE BOX WITH BOLT DOWN COVER. (INDEPENDENT FROM ALL OTHER BOXES) USE STAINLESS BOLT, NUT AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
- HEAT BRAND "SW" ONTO LID IN 2" CHARACTERS
- SPARE WIRES (PER PLAN) AND ONE COMMON WIRE CONTINUOUS FROM CONTROLLER. SEE EQUIPMENT LEGEND FOR SIZE AND COLOR.
- FINISH GRADE IN SHRUB AREAS - 3" BELOW TOP OF BOX
- PRESSURE SUPPLY LINE PER PLAN
- 3/4" PEA GRAVEL. FILL TO TOP OF VALVE BOX HOLES
- LANDSCAPE FABRIC
- CAP WIRES WITH APPROVED WATERTIGHT WIRE CONNECTOR
- FINISH GRADE IN TURF AREAS - 1" BELOW TOP OF BOX
- CAP PRESSURE SUPPLY LINE DIRECTLY BELOW CENTER OF SPARE WIRE VALVE BOX (WHERE OCCURS)



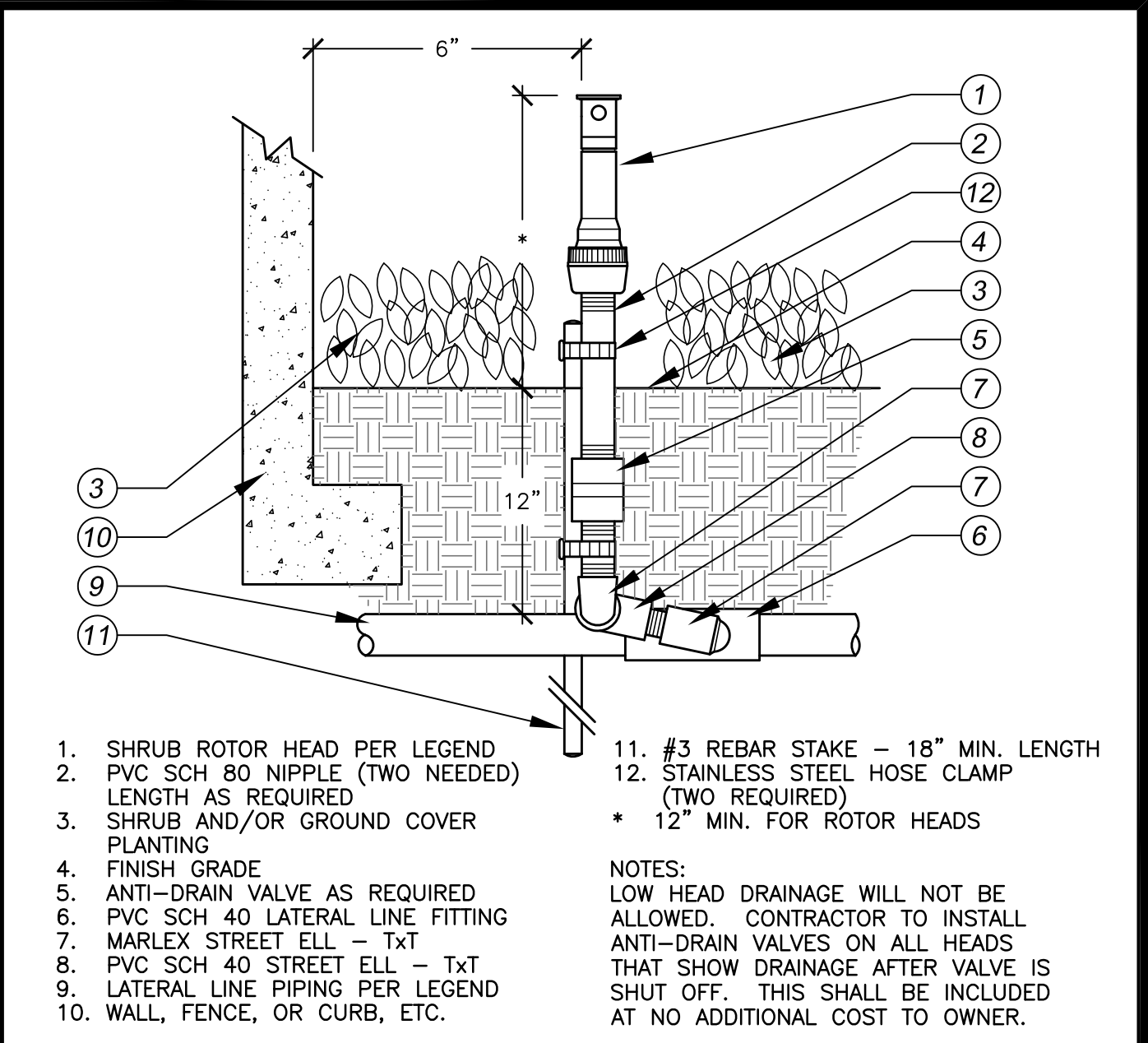
- SHRUB HI-POP SPRAY HEAD PER LEGEND
- PVC SCH 80 NIPPLE - 12" MINIMUM LENGTH
- PVC SCH 40 STREET ELL - T x T
- MARLEX STREET ELL - T x T
- PVC SCH 40 LATERAL LINE FITTING
- LATERAL LINE PER LEGEND
- FINISH GRADE

NOTES:
USE TEFLON TAPE ON ALL MALE PIPE THREADS FOR PVC TO PVC CONNECTIONS. SET PERIMETER HEADS 2"-6" FROM EDGE OF CURBS AND WALKS, AND 6"-12" FROM FIXED VERTICAL OBJECTS SUCH AS FENCES, WALLS, AND BUILDINGS, ETC. ALL FITTINGS FOR SWING JOINTS MUST BE SAME SIZE AS INLET ON BASE OF HEAD. LATERAL LINE FITTING OUTLET SHALL BE SAME SIZE AS HEAD INLET. ONLY THE BOTTOM INLET OF HEAD MAY BE USED.



- SHRUB HI-POP SPRAY HEAD PER LEGEND
- PVC SCH 80 NIPPLE - 12" MINIMUM LENGTH
- PVC SCH 40 STREET ELL - T x T
- MARLEX STREET ELL - T x T
- PVC SCH 40 LATERAL LINE FITTING
- LATERAL LINE PER LEGEND
- FINISH GRADE

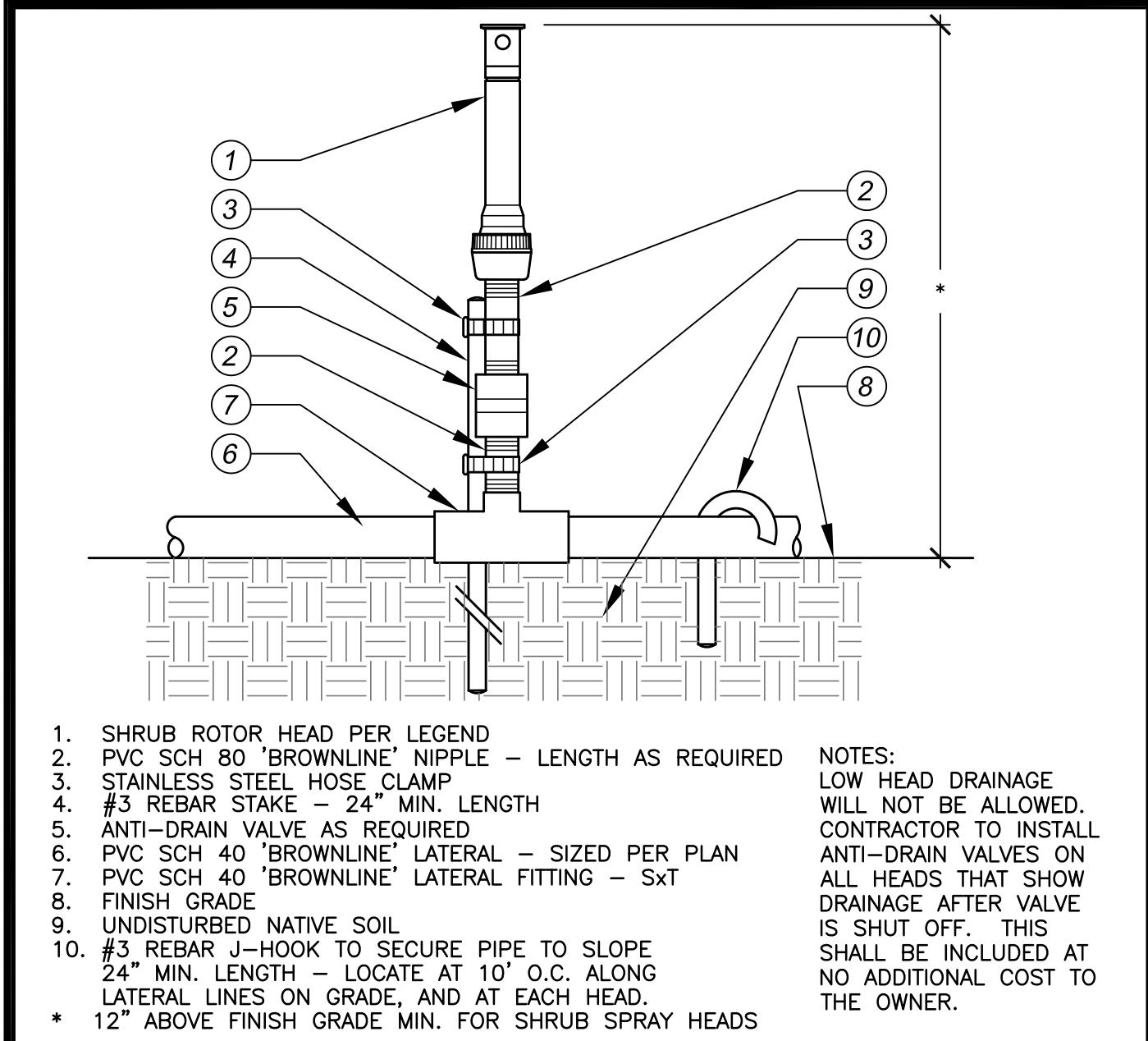
NOTES: USE TEFLON TAPE ON ALL MALE PIPE THREADS FOR PVC TO PVC CONNECTIONS. SET PERIMETER HEADS 2"-6" FROM EDGE OF CURBS AND WALKS, AND 6"-12" FROM FIXED VERTICAL OBJECTS SUCH AS FENCES, WALLS, AND BUILDINGS, ETC. BOTTOM INLET OF HEAD MUST BE USED.



- SHRUB ROTOR HEAD PER LEGEND
- PVC SCH 80 NIPPLE (TWO NEEDED) LENGTH AS REQUIRED
- SHRUB AND/OR GROUND COVER PLANTING
- FINISH GRADE
- ANTI-DRAIN VALVE AS REQUIRED
- PVC SCH 40 LATERAL LINE FITTING
- MARLEX STREET ELL - T x T
- PVC SCH 40 STREET ELL - T x T
- LATERAL LINE PIPING PER LEGEND
- WALL, FENCE, OR CURB, ETC.
- #3 REBAR STAKE - 18" MIN. LENGTH
- STAINLESS STEEL HOSE CLAMP (TWO REQUIRED) * 12" MIN. FOR ROTOR HEADS

NOTES:
LOW HEAD DRAINAGE WILL NOT BE ALLOWED. CONTRACTOR TO INSTALL ANTI-DRAIN VALVES ON ALL HEADS THAT SHOW DRAINAGE AFTER VALVE IS SHUT OFF. THIS SHALL BE INCLUDED AT NO ADDITIONAL COST TO OWNER.

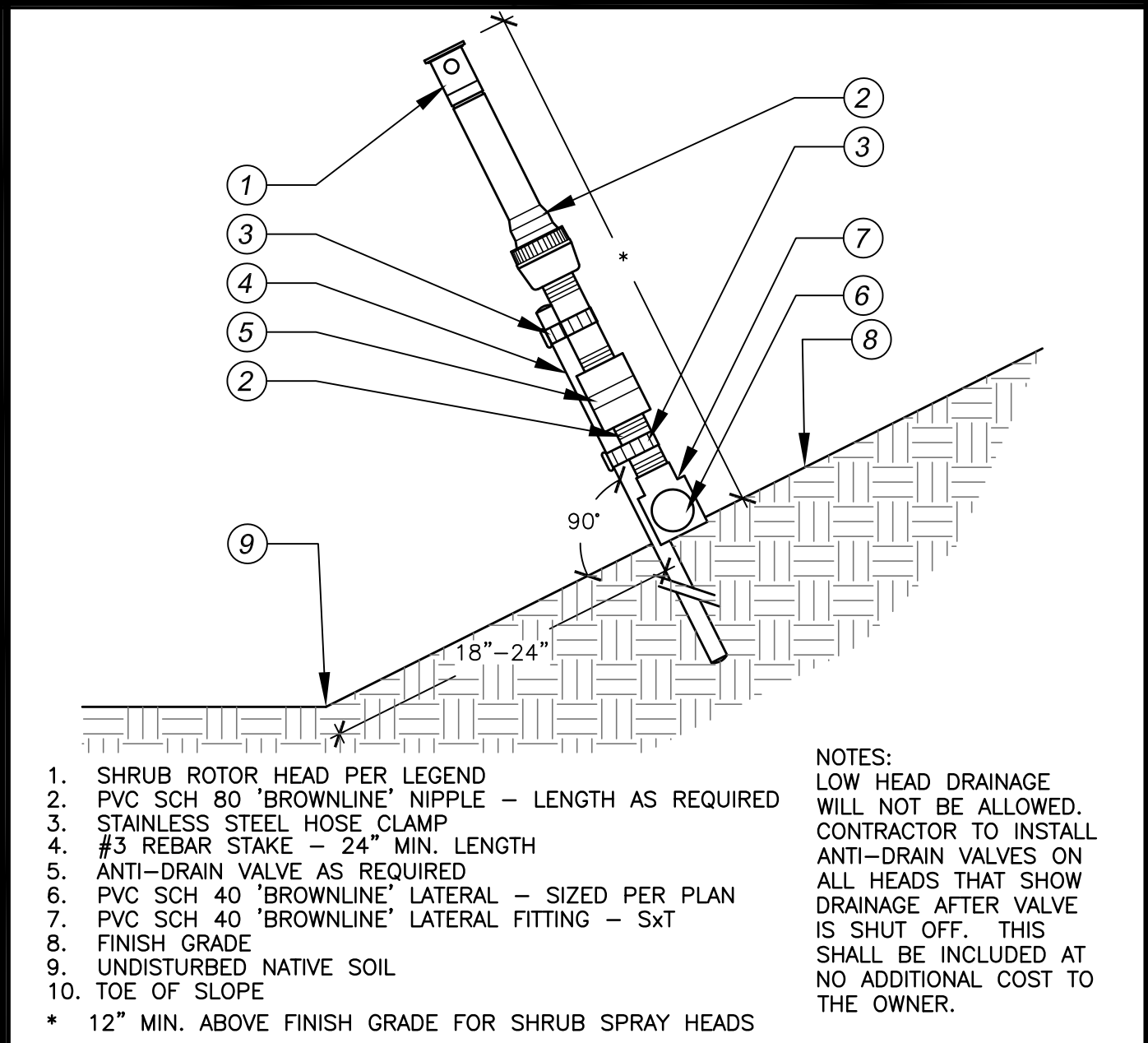
A Spare Wire Box



- SHRUB ROTOR HEAD PER LEGEND
- PVC SCH 80 'BROWNLINE' NIPPLE - LENGTH AS REQUIRED
- STAINLESS STEEL HOSE CLAMP
- #3 REBAR STAKE - 24" MIN. LENGTH
- ANTI-DRAIN VALVE AS REQUIRED
- PVC SCH 40 'BROWNLINE' LATERAL - SIZED PER PLAN
- PVC SCH 40 'BROWNLINE' LATERAL FITTING - SxT
- FINISH GRADE
- UNDISTURBED NATIVE SOIL
- #3 REBAR J-HOOK TO SECURE PIPE TO SLOPE
- 24" MIN. LENGTH - LOCATE AT 10' O.C. ALONG LATERAL LINES ON GRADE, AND AT EACH HEAD.
- * 12" ABOVE FINISH GRADE MIN. FOR SHRUB SPRAY HEADS

NOTES:
LOW HEAD DRAINAGE WILL NOT BE ALLOWED. CONTRACTOR TO INSTALL ANTI-DRAIN VALVES ON ALL HEADS THAT SHOW DRAINAGE AFTER VALVE IS SHUT OFF. THIS SHALL BE INCLUDED AT NO ADDITIONAL COST TO THE OWNER.

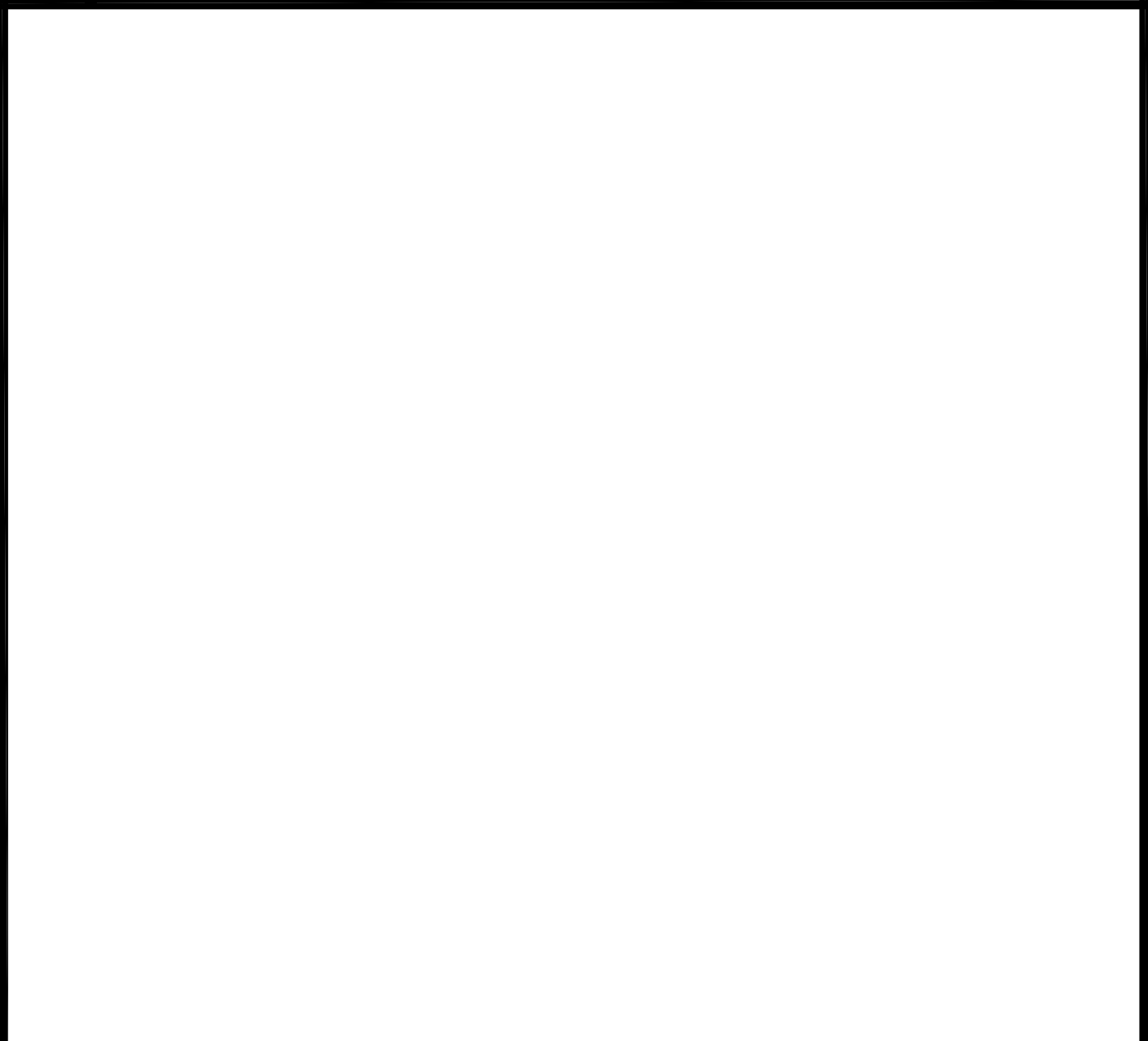
B Hi-Pop Spray Head



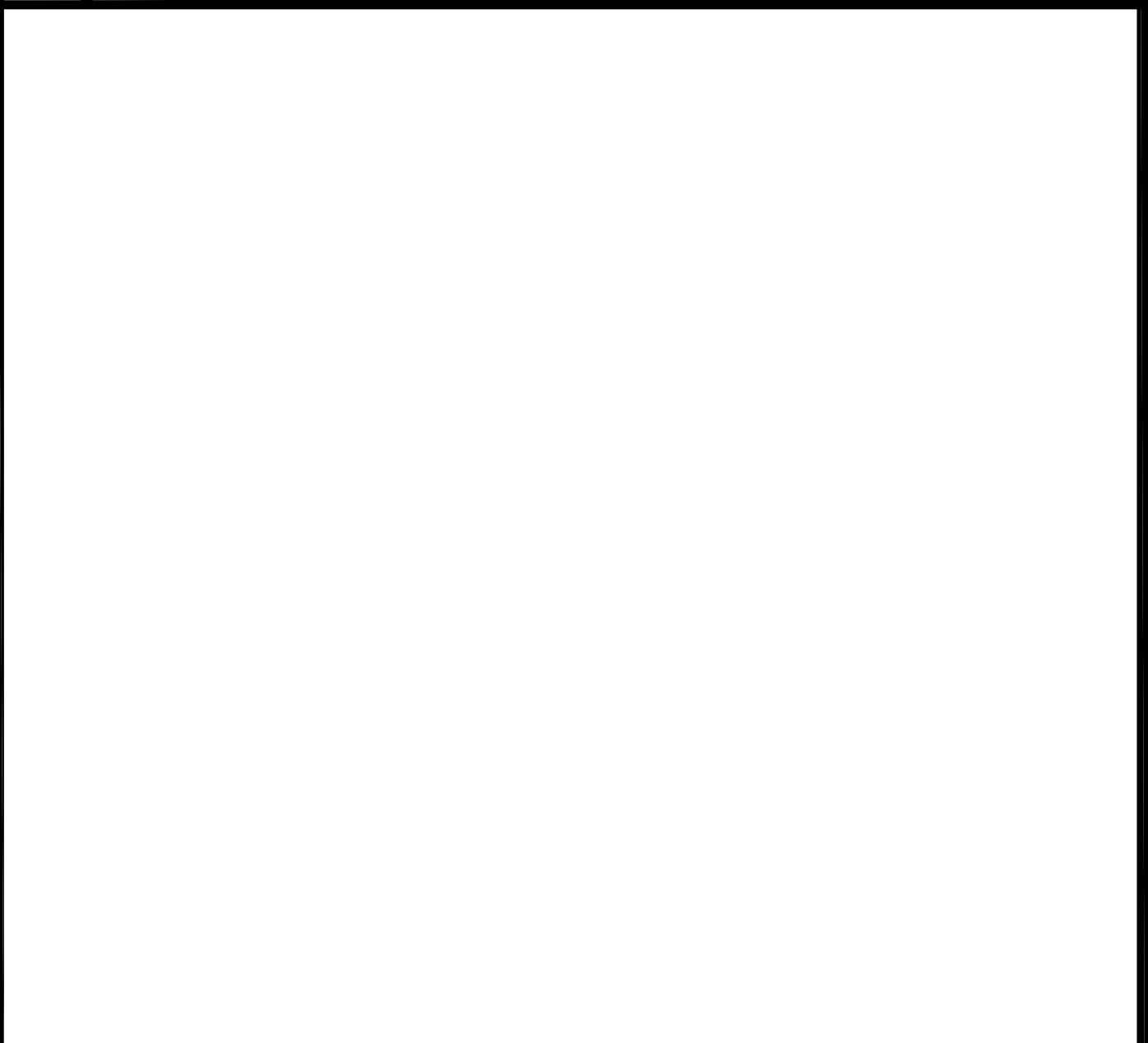
- SHRUB ROTOR HEAD PER LEGEND
- PVC SCH 80 'BROWNLINE' NIPPLE - LENGTH AS REQUIRED
- STAINLESS STEEL HOSE CLAMP
- #3 REBAR STAKE - 24" MIN. LENGTH
- ANTI-DRAIN VALVE AS REQUIRED
- PVC SCH 40 'BROWNLINE' LATERAL - SIZED PER PLAN
- PVC SCH 40 'BROWNLINE' LATERAL FITTING - SxT
- FINISH GRADE
- UNDISTURBED NATIVE SOIL
- TOE OF SLOPE
- * 12" MIN. ABOVE FINISH GRADE FOR SHRUB SPRAY HEADS

NOTES:
LOW HEAD DRAINAGE WILL NOT BE ALLOWED. CONTRACTOR TO INSTALL ANTI-DRAIN VALVES ON ALL HEADS THAT SHOW DRAINAGE AFTER VALVE IS SHUT OFF. THIS SHALL BE INCLUDED AT NO ADDITIONAL COST TO THE OWNER.

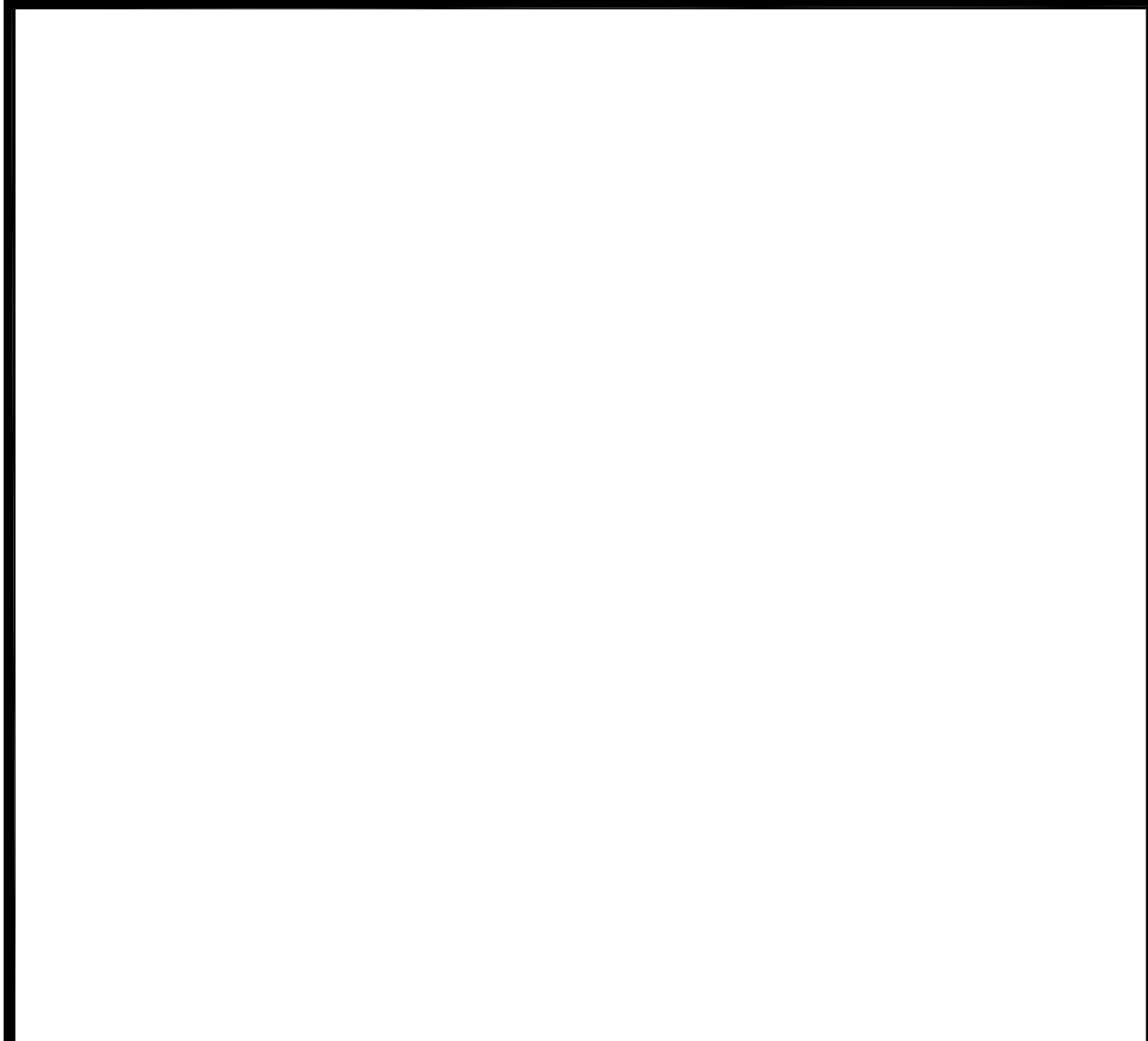
C Shrub Rotor Head



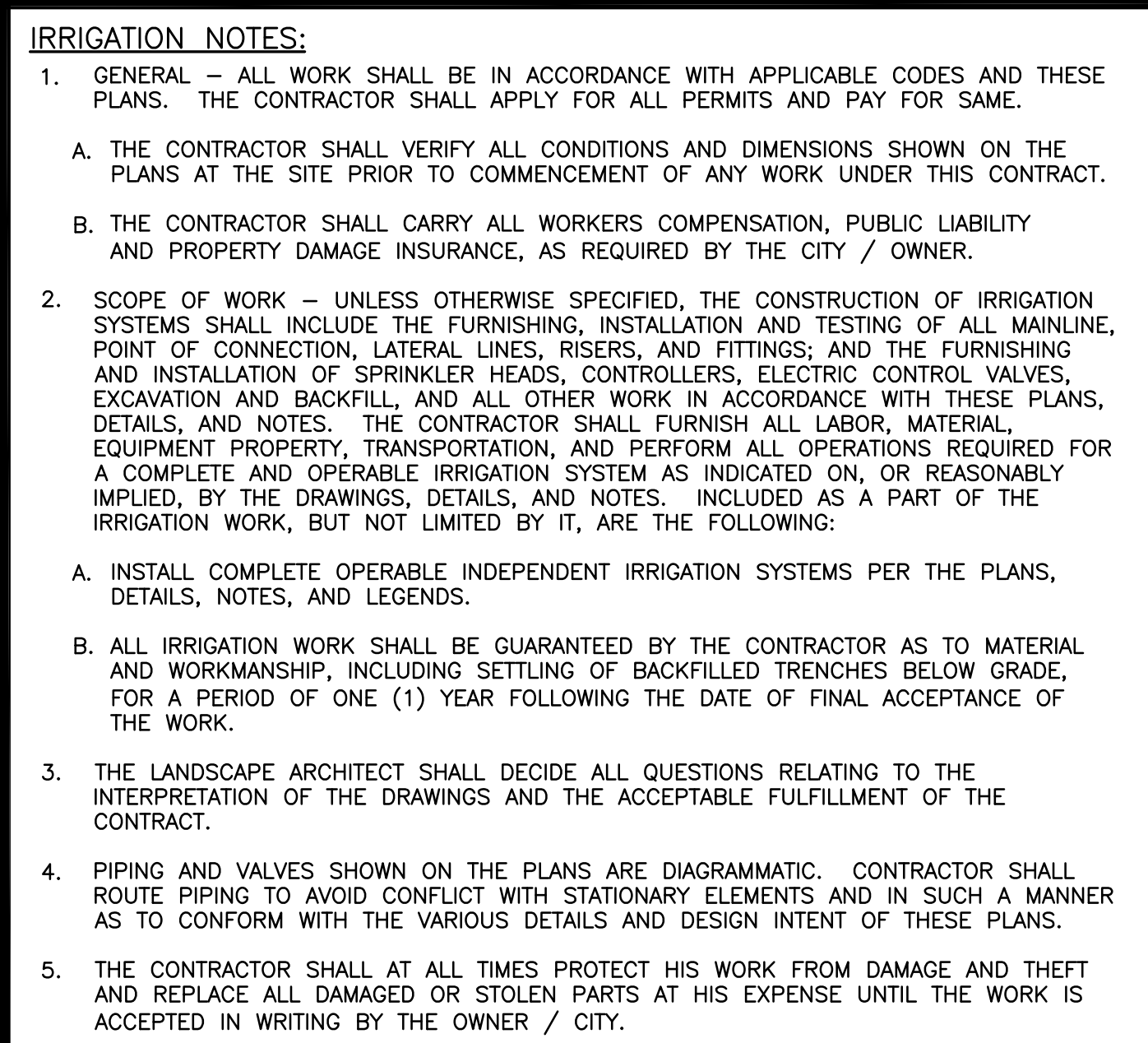
D Fixed Riser Rotor Head



E On-Grade Rotor Head



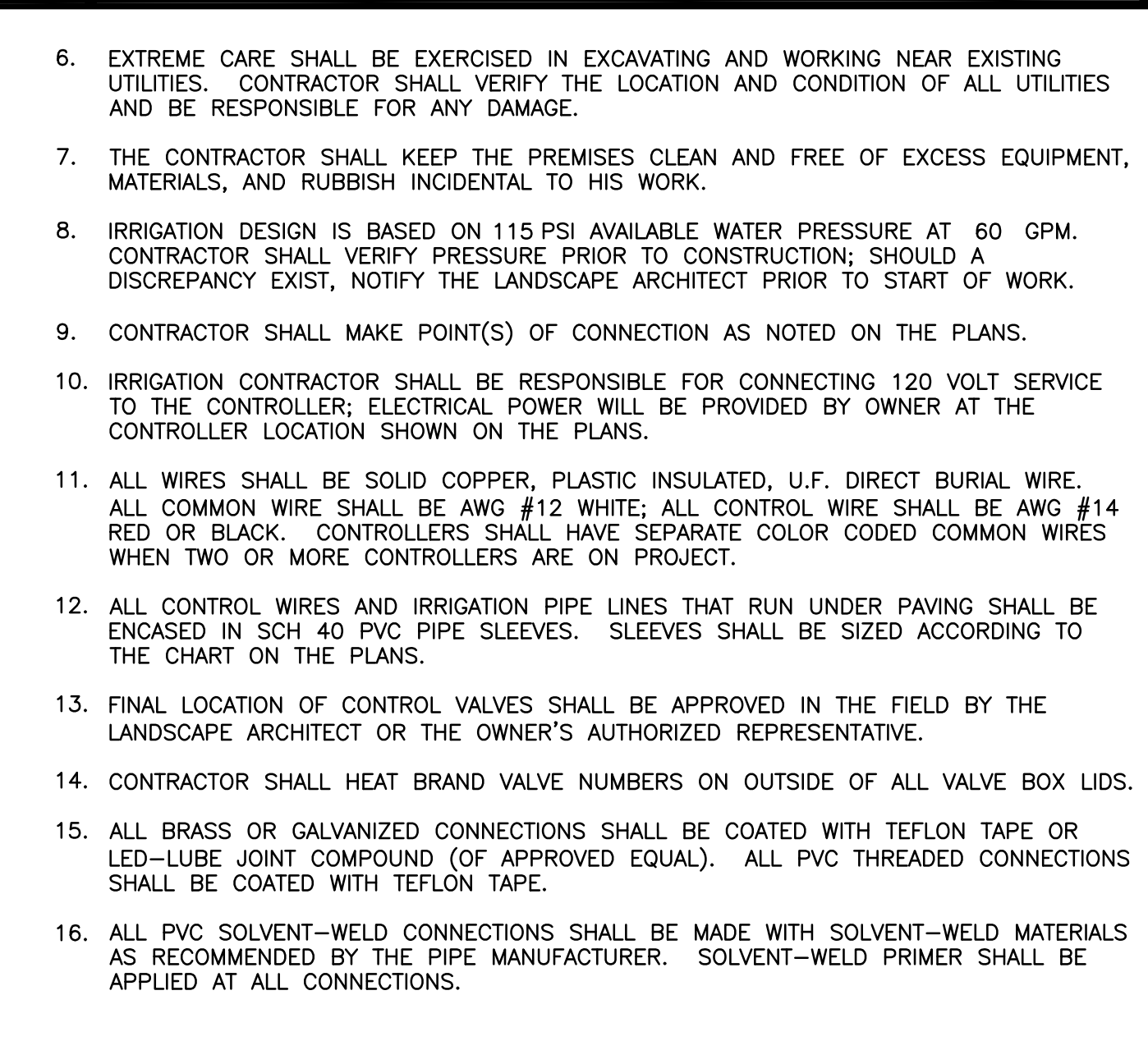
F Toe of Slope Rotor Head



IRRIGATION NOTES:

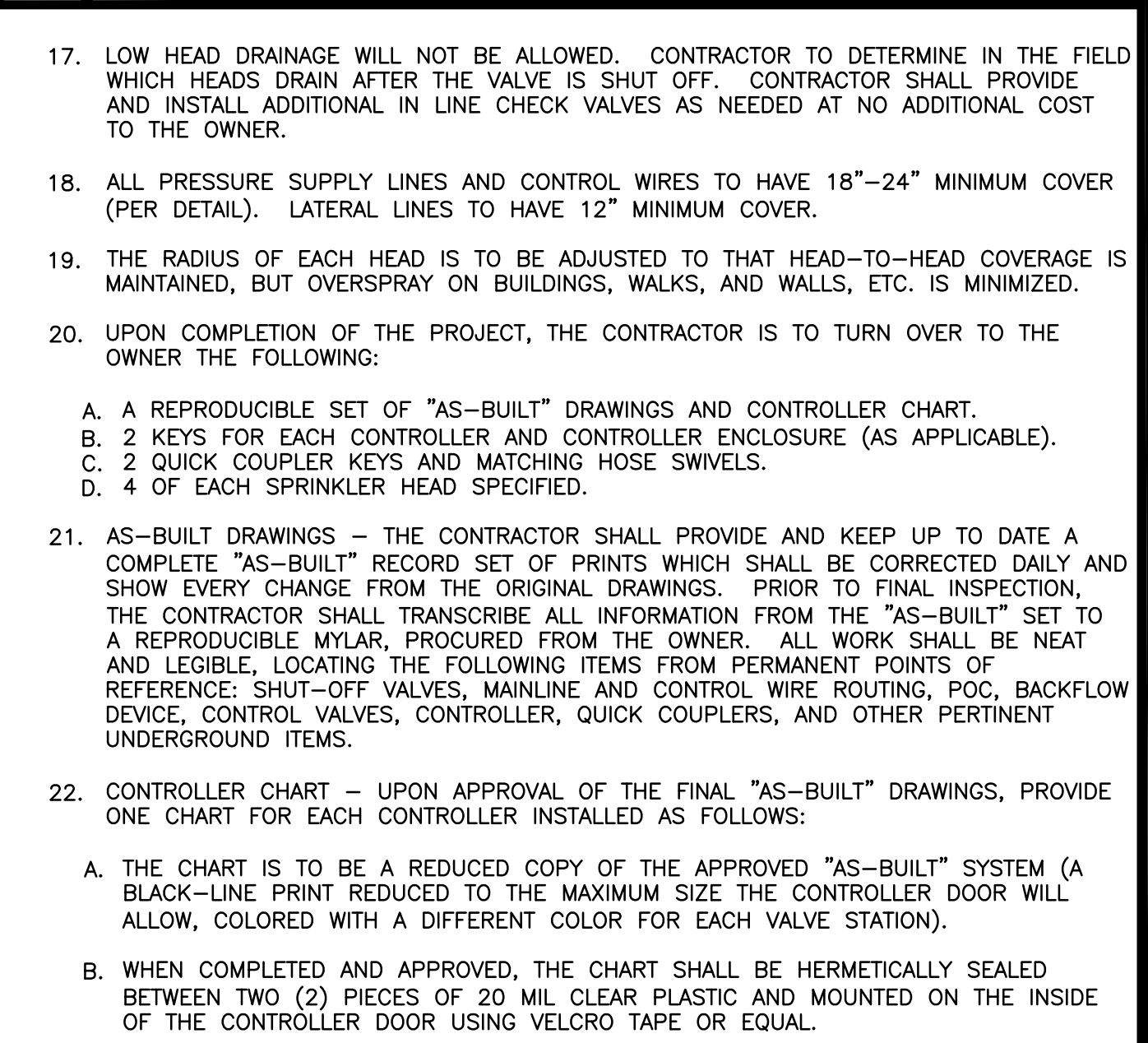
- GENERAL - ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND THESE PLANS. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY FOR SAME.
 - THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF ANY WORK UNDER THIS CONTRACT.
 - THE CONTRACTOR SHALL CARRY ALL WORKERS COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE, AS REQUIRED BY THE CITY / OWNER.
- SCOPE OF WORK - UNLESS OTHERWISE SPECIFIED, THE CONSTRUCTION OF IRRIGATION SYSTEMS SHALL INCLUDE THE FURNISHING, INSTALLATION AND TESTING OF ALL MAINLINE, POINT OF CONNECTION, LATERAL LINES, RISERS, AND FITTINGS; AND THE FURNISHING AND INSTALLATION OF SPRINKLER HEADS, CONTROLLERS, ELECTRIC CONTROL VALVES, EXCAVATION AND BACKFILL, AND ALL OTHER WORK IN ACCORDANCE WITH THESE PLANS, DETAILS, AND NOTES. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT PROPERTY, TRANSPORTATION, AND PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE AND OPERABLE IRRIGATION SYSTEM AS INDICATED ON, OR REASONABLY IMPLIED, BY THE DRAWINGS, DETAILS, AND NOTES. INCLUDED AS A PART OF THE IRRIGATION WORK, BUT NOT LIMITED BY IT, ARE THE FOLLOWING:
 - INSTALL COMPLETE OPERABLE INDEPENDENT IRRIGATION SYSTEMS PER THE PLANS, DETAILS, NOTES, AND LEGENDS.
 - ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP, INCLUDING SETTILING OF BACKFILLED TRENCHES BELOW GRADE, FOR A PERIOD OF ONE (1) YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK.
- THE LANDSCAPE ARCHITECT SHALL DECIDE ALL QUESTIONS RELATING TO THE INTERPRETATION OF THE DRAWINGS AND THE ACCEPTABLE FULFILLMENT OF THE CONTRACT.
- PIPING AND VALVES SHOWN ON THE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL ROUTE PIPING TO AVOID CONFLICT WITH STATIONARY ELEMENTS AND IN SUCH A MANNER AS TO CONFORM WITH THE VARIOUS DETAILS AND DESIGN INTENT OF THESE PLANS.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER / CITY.

G



- EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE.
- THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS, AND RUBBISH INCIDENTAL TO HIS WORK.
- IRRIGATION DESIGN IS BASED ON 115 PSI AVAILABLE WATER PRESSURE AT 60 GPM. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO CONSTRUCTION; SHOULD A DISCREPANCY EXIST, NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO START OF WORK.
- CONTRACTOR SHALL MAKE POINT(S) OF CONNECTION AS NOTED ON THE PLANS.
- IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING 120 VOLT SERVICE TO THE CONTROLLER; ELECTRICAL POWER WILL BE PROVIDED BY OWNER AT THE CONTROLLER LOCATION SHOWN ON THE PLANS.
- ALL WIRES SHALL BE SOLID COPPER, PLASTIC INSULATED, U.F. DIRECT BURIAL WIRE. ALL COMMON WIRE SHALL BE AWG #12 WHITE; ALL CONTROL WIRE SHALL BE AWG #14 RED OR BLACK. CONTROLLERS SHALL HAVE SEPARATE COLOR CODED COMMON WIRES WHEN TWO OR MORE CONTROLLERS ARE ON PROJECT.
- ALL CONTROL WIRES AND IRRIGATION PIPE LINES THAT RUN UNDER PAVING SHALL BE ENCASED IN SCH 40 PVC PIPE SLEEVES. SLEEVES SHALL BE SIZED ACCORDING TO THE CHART ON THE PLANS.
- FINAL LOCATION OF CONTROL VALVES SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT OR THE OWNER'S AUTHORIZED REPRESENTATIVE.
- CONTRACTOR SHALL HEAT BRAND VALVE NUMBERS ON OUTSIDE OF ALL VALVE BOX LIDS.
- ALL BRASS OR GALVANIZED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE OR LED-LUBE JOINT COMPOUND (OF APPROVED EQUAL). ALL PVC THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
- ALL PVC SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH SOLVENT-WELD MATERIALS AS RECOMMENDED BY THE PIPE MANUFACTURER. SOLVENT-WELD PRIMER SHALL BE APPLIED AT ALL CONNECTIONS.

H



- LOW HEAD DRAINAGE WILL NOT BE ALLOWED. CONTRACTOR TO DETERMINE IN THE FIELD WHICH HEADS DRAIN AFTER THE VALVE IS SHUT OFF. CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL IN LINE CHECK VALVES AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.
- ALL PRESSURE SUPPLY LINES AND CONTROL WIRES TO HAVE 18"-24" MINIMUM COVER (PER DETAIL). LATERAL LINES TO HAVE 12" MINIMUM COVER.
- THE RADIUS OF EACH HEAD IS TO BE ADJUSTED TO THAT HEAD-TO-HEAD COVERAGE IS MAINTAINED, BUT OVERSPRAY ON BUILDINGS, WALKS, AND WALLS, ETC. IS MINIMIZED.
- UPON COMPLETION OF THE PROJECT, THE CONTRACTOR IS TO TURN OVER TO THE OWNER THE FOLLOWING:
 - A REPRODUCIBLE SET OF "AS-BUILT" DRAWINGS AND CONTROLLER CHART.
 - 2 KEYS FOR EACH CONTROLLER AND CONTROLLER ENCLOSURE (AS APPLICABLE).
 - 2 QUICK COUPLER KEYS AND MATCHING HOSE SWIVELS.
 - 4 OF EACH SPRINKLER HEAD SPECIFIED.
- AS-BUILT DRAWINGS - THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE "AS-BUILT" RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL TRANSCRIBE ALL INFORMATION FROM THE "AS-BUILT" SET TO A REPRODUCIBLE MYLAR, PROCURED FROM THE OWNER. ALL WORK SHALL BE NEAT AND LEGIBLE, LOCATING THE FOLLOWING ITEMS FROM PERMANENT POINTS OF REFERENCE: SHUT-OFF VALVES, MAINLINE AND CONTROL WIRE ROUTING, POC, BACKFLOW DEVICE, CONTROL VALVES, CONTROLLER, QUICK COUPLERS, AND OTHER PERTINENT UNDERGROUND ITEMS.
- CONTROLLER CHART - UPON APPROVAL OF THE FINAL "AS-BUILT" DRAWINGS, PROVIDE ONE CHART FOR EACH CONTROLLER INSTALLED AS FOLLOWS:
 - THE CHART IS TO BE A REDUCED COPY OF THE APPROVED "AS-BUILT" SYSTEM (A BLACK-LINE PRINT REDUCED TO THE MAXIMUM SIZE THE CONTROLLER DOOR WILL ALLOW, COLORED WITH A DIFFERENT COLOR FOR EACH VALVE STATION).
 - WHEN COMPLETED AND APPROVED, THE CHART SHALL BE HERMETICALLY SEALED BETWEEN TWO (2) PIECES OF 20 MIL CLEAR PLASTIC AND MOUNTED ON THE INSIDE OF THE CONTROLLER DOOR USING VELCRO TAPE OR EQUAL.

I

J General Irrigation Notes



LANDSCAPE ARCHITECTURE

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www.comworksdg.com

GREYSTONE
MANSION
SLOPE IRRIGATION

CITY OF BEVERLY HILLS
345 FOOTHILL ROAD
BEVERLY HILLS, CA 90210

JOB NUMBER: 170432
DRAWN BY: KCK
CHECKED BY: SJR
DATE: 10/3/17

REVISIONS:
1 3/8/18-REMOVE P2 LAYOUT, ADD CONT. 2 PWR NOTE



IRRIGATION
DETAILS

SCALE: N.T.S.

811
Know what's below.
Call before you dig.

LI-5

SHEET 6 OF 6