



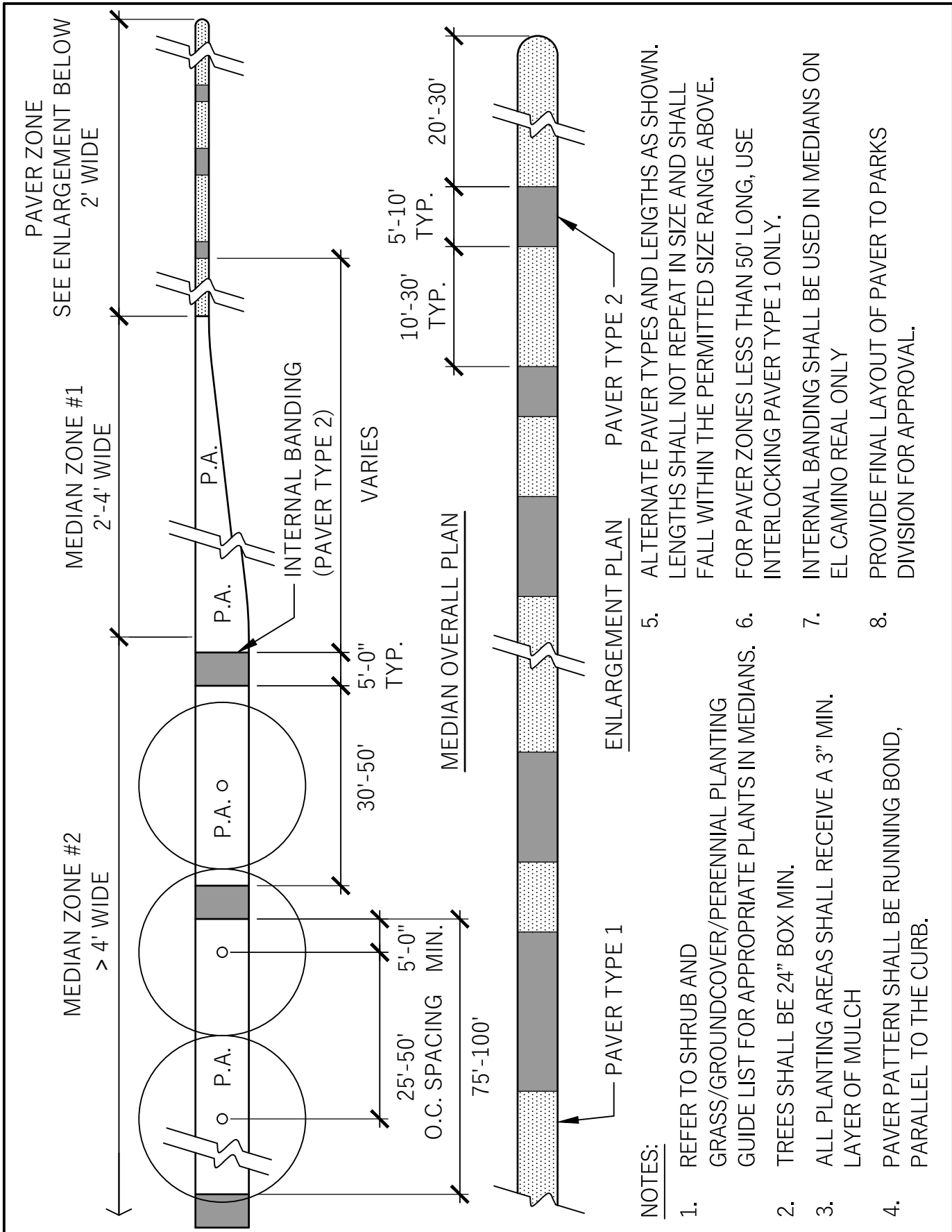
**CITY OF SOUTH SAN FRANCISCO  
PARKS DIVISION**

**LANDSCAPE / MEDIAN / RIGHT-OF-WAY  
STANDARD DETAILS**

**550 NORTH CANAL STREET  
SOUTH SAN FRANCISCO, CA 94080**

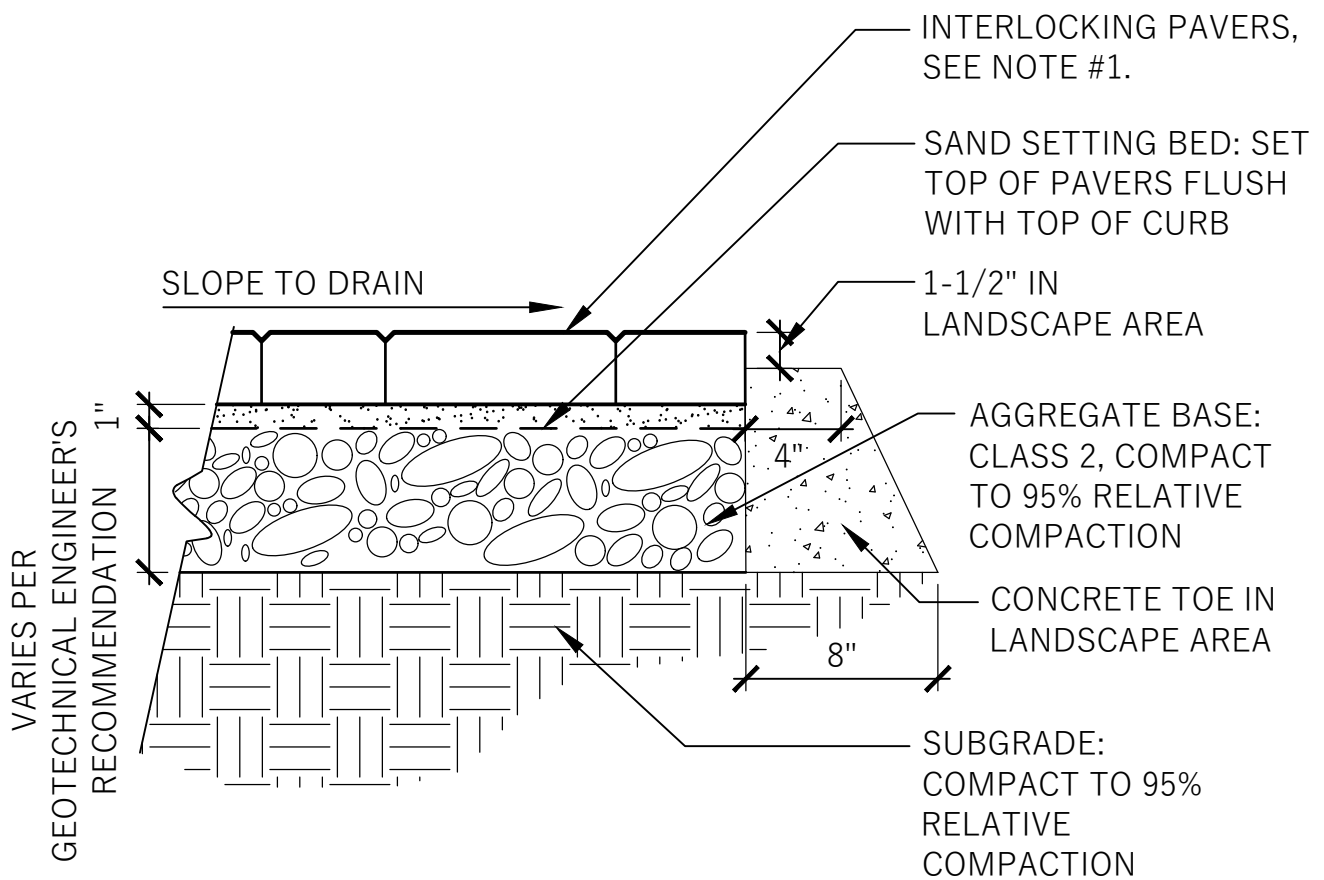
**DETAIL NUMBER****TITLE****CURRENT VERSION**

LD-1	MEDIAN DESIGN GUIDELINES	NOVEMBER 2022
LD-2	MEDIAN PAVERS	NOVEMBER 2022
LD-3	MEDIAN WIRE MESH FENCING	NOVEMBER 2022
LD-4	CONCRETE PAVEMENT	NOVEMBER 2022
LD-5	CONCRETE JOINTS	NOVEMBER 2022
LD-6	CONCRETE BAND	NOVEMBER 2022
LD-7	DECOMPOSED GRANITE PAVEMENT	NOVEMBER 2022
LD-8A - LD-8C	IRRIGATION MATERIALS LIST	NOVEMBER 2022
LD-9	CONTROLLER	NOVEMBER 2022
LD-10	BACKFLOW PREVENTER	NOVEMBER 2022
LD-11	FLOW SENSOR	NOVEMBER 2022
LD-12	MASTER VALVE	NOVEMBER 2022
LD-13	REMOTE CONTROL VALVE	NOVEMBER 2022
LD-14	DRIP REMOTE CONTROL ZONE KIT	NOVEMBER 2022
LD-15	BALL VALVE	NOVEMBER 2022
LD-16	QUICK COUPLING VALVE	NOVEMBER 2022
LD-17	IRRIGATION TRENCHING	NOVEMBER 2022
LD-18	TREE EMITTER	NOVEMBER 2022
LD-19	TREE EMITTER TABLE	NOVEMBER 2022
LD-20	SHRUB/GROUNDCOVER/GRASS BUBBLER	NOVEMBER 2022
LD-21	POP-UP SPRAYHEAD/ROTOR	NOVEMBER 2022
LD-22	INLINE DRIP IRRIGATION LAYOUT	NOVEMBER 2022
LD-23	TREE RING DRIPLINE	NOVEMBER 2022
LD-24	LATERAL/DRIP HEADER CONNECTION	NOVEMBER 2022
LD-25	DRIP MANUAL FLUSH VALVE	NOVEMBER 2022
LD-26	DRIP AIR VACUUM RELIEF VALVE	NOVEMBER 2022
LD-27	DRIP OPERATION INDICATOR	NOVEMBER 2022
LD-28	VALVE BOX LAYOUT	NOVEMBER 2022
LD-29	TREE PLANTING AND STAKING	NOVEMBER 2022
LD-30	MEDIAN TREE PLANTING AND STAKING	NOVEMBER 2022
LD-31	SHRUB/GROUNDCOVER/GRASS PLANTING	NOVEMBER 2022
LD-32	SHRUB/GROUNDCOVER/GRASS SPACING	NOVEMBER 2022
LD-33	PLANTING ON SLOPE	NOVEMBER 2022
LD-34	LANDSCAPE EDGER	NOVEMBER 2022
LD-35A - LD-35G	TREE PLANTING GUIDE LIST	NOVEMBER 2022
LD-36A - LD-36D	SHRUB PLANTING GUIDE LIST	NOVEMBER 2022
LD-37A - LD-37E	GRASS/GROUNDCOVER/PERENNIAL PLANTING GUIDE LIST	NOVEMBER 2022
LD-38	FURNISHING LIST	NOVEMBER 2022



**NOTES:**

1. REFER TO SHRUB AND GRASS/GROUNDCOVER/PERENNIAL PLANTING GUIDE LIST FOR APPROPRIATE PLANTS IN MEDIANS.
2. TREES SHALL BE 24" BOX MIN.
3. ALL PLANTING AREAS SHALL RECEIVE A 3" MIN. LAYER OF MULCH
4. PAVER PATTERN SHALL BE RUNNING BOND, PARALLEL TO THE CURB.
5. ALTERNATE PAVER TYPES AND LENGTHS AS SHOWN. LENGTHS SHALL NOT REPEAT IN SIZE AND SHALL FALL WITHIN THE PERMITTED SIZE RANGE ABOVE.
6. FOR PAVER ZONES LESS THAN 50' LONG, USE INTERLOCKING PAVER TYPE 1 ONLY.
7. INTERNAL BANDING SHALL BE USED IN MEDIANS ON EL CAMINO REAL ONLY
8. PROVIDE FINAL LAYOUT OF PAVER TO PARKS DIVISION FOR APPROVAL.

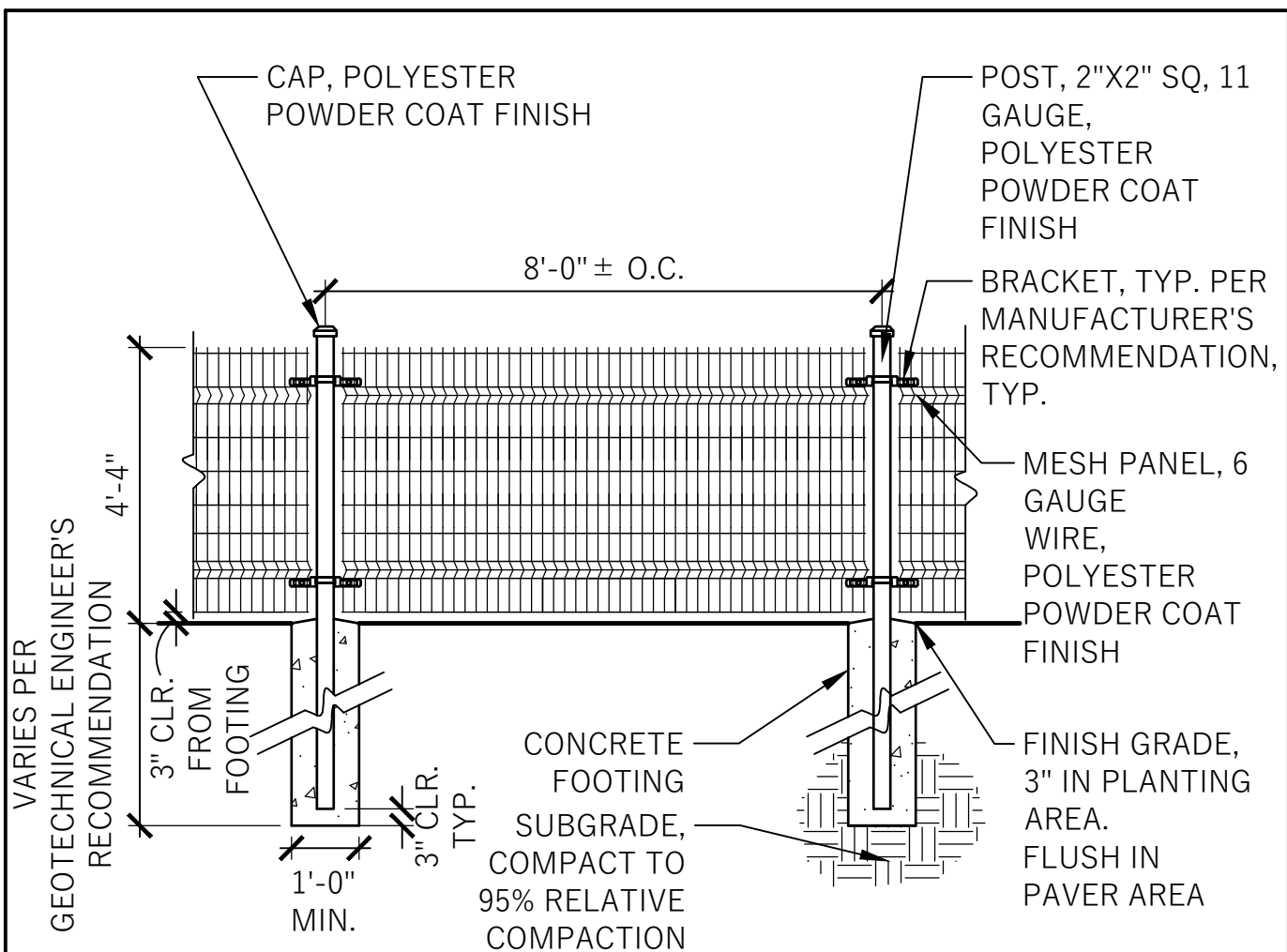


**NOTES:**

1. INTERLOCKING PAVERS SHALL BE SMALL PLANK PAVERS, 8.78"L X 2.87"W X 2.94"H SIZE, AVAILABLE FROM BASALITE CONCRETE PRODUCTS, (800) 776-6690, OR APPROVED EQUAL.  
 TYPE 1 SHALL BE GRANITE BAY COLOR  
 TYPE 2 SHALL BE TRUCKEE COLOR
2. REFER TO LD-1 FOR LAYOUT GUIDELINES.
3. SAND SHALL BE A PLASTER CONCRETE TYPE, CLEAN, WASHED, AND MEET THE FOLLOWING SIEVE ANALYSIS:

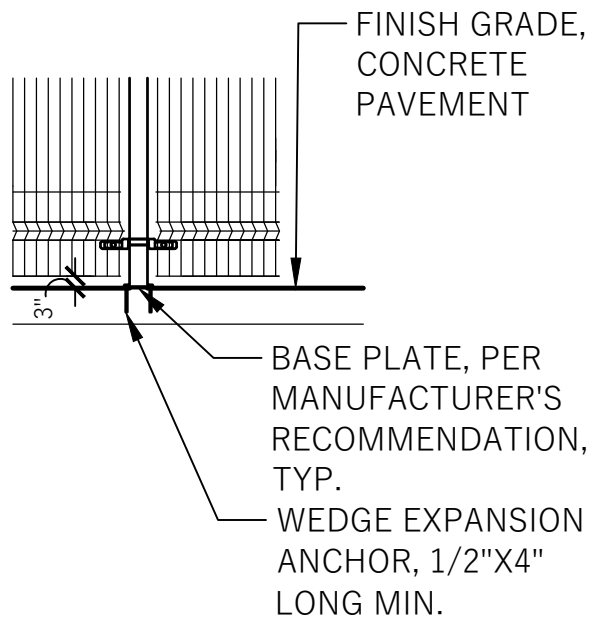
SIEVE SIZE	PERCENT PASSING
3/8"	100%
NO. 4	95% - 100%
NO. 8	85% - 100%
NO. 16	50% - 85%
NO. 30	25% - 60%
NO. 50	10% - 30%
NO. 100	2% - 10%
NO. 200	0 - 1%

4. ANY SUBSTITUTIONS MUST BE APPROVED BY PARKS DIVISION.

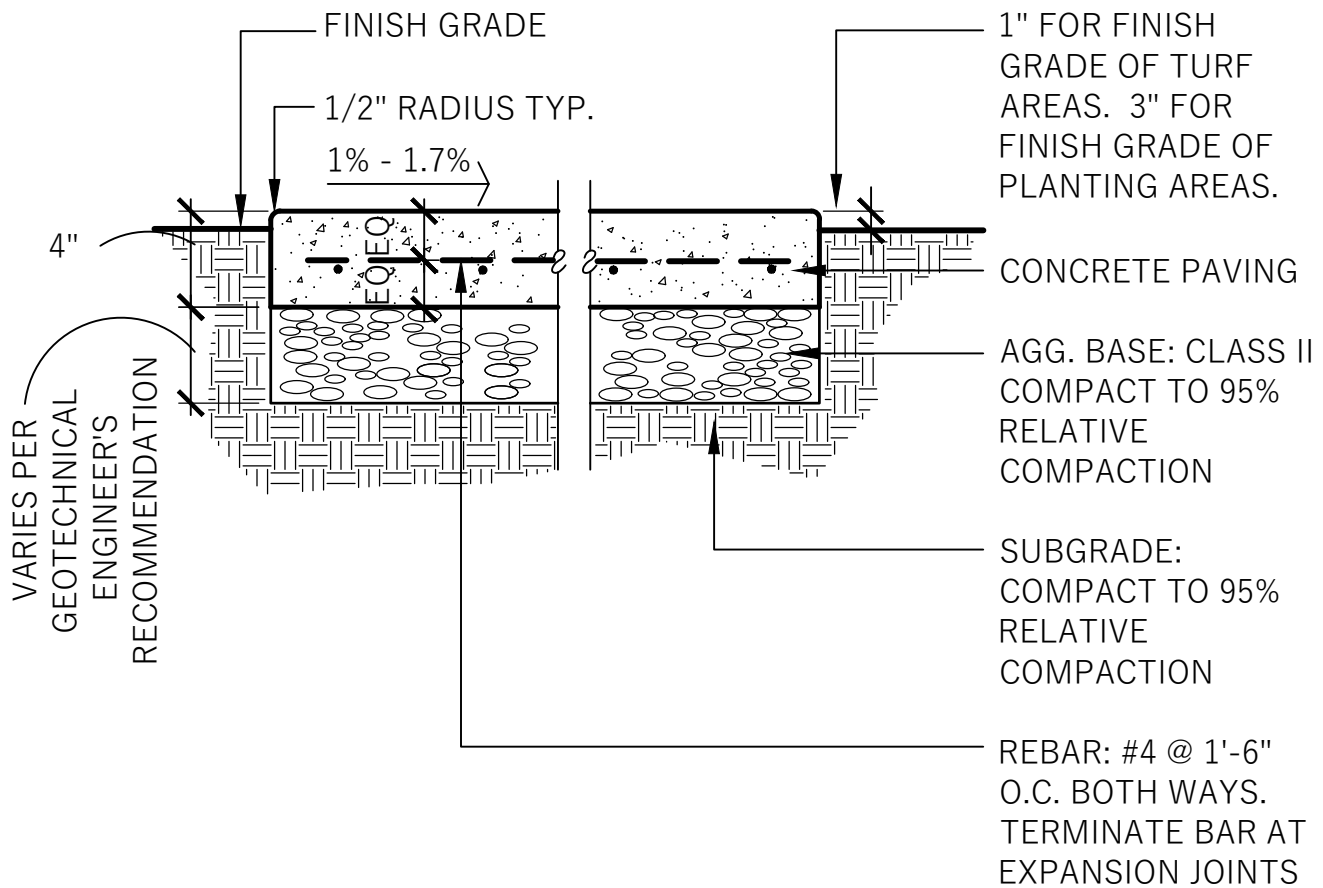


**NOTES:**

1. WIRE MESH FENCING AVAILABLE THROUGH OMEGA FENCE SYSTEMS, SECURE TECHNOLOGY, CE SHEPARD OR APPROVED EQUAL.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. INCLUDING CONNECTIONS TO CONCRETE, IF APPLICABLE.
3. ALL POWDER COATED COMPONENTS SHALL BE BLACK COLOR
4. ANY SUBSTITUTIONS MUST BE APPROVED BY PARKS DIVISION.

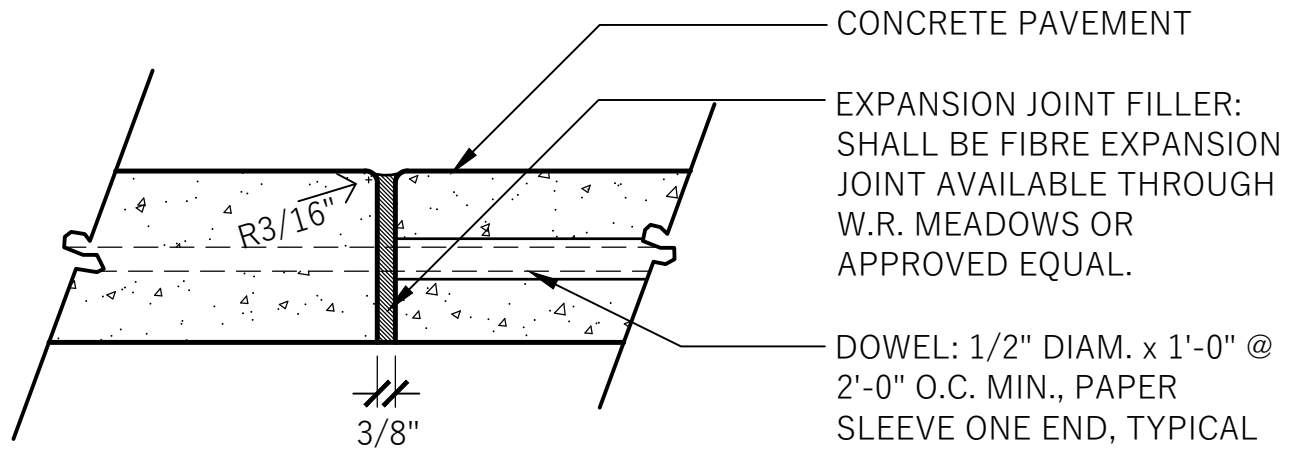


SURFACE MOUNT OPTION

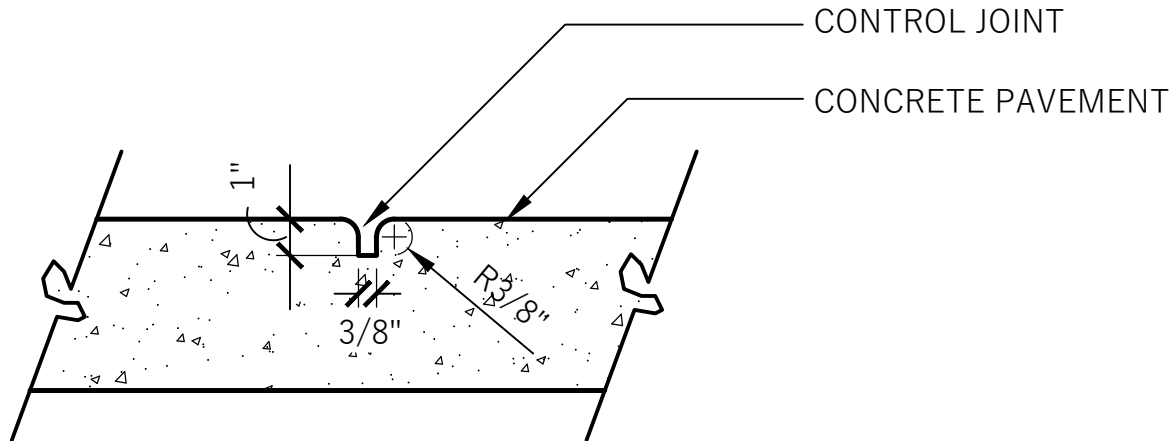


**NOTES:**

1. PROVIDE A MEDIUM BROOM FINISH WITH STROKES PERPENDICULAR TO DIRECTION OF TRAVEL ALONG WALK.
2. CONCRETE MIX SHALL MEET CALTRANS CLASS A 6-SACK MIX WITH 3/4" MIN. TO 1" MAX AGGREGATE AND MIN. 3,000 P.S.I COMPRESSIVE STRENGTH AFTER 28 DAYS. ADD 1 PINT LAMPLACK PER CUBIC YARD OF CONCRETE MIX. MAX SLUMP OF 4". NO ADMIXTURES WITHOUT THE APPROVAL OF THE PARKS DIVISION. CURE VIA THE IMPERVIOUS MEMBRANE METHOD.
3. NEW CONCRETE SHALL CONFORM TO EXISTING CONCRETE AT THE NEAREST JOINT.



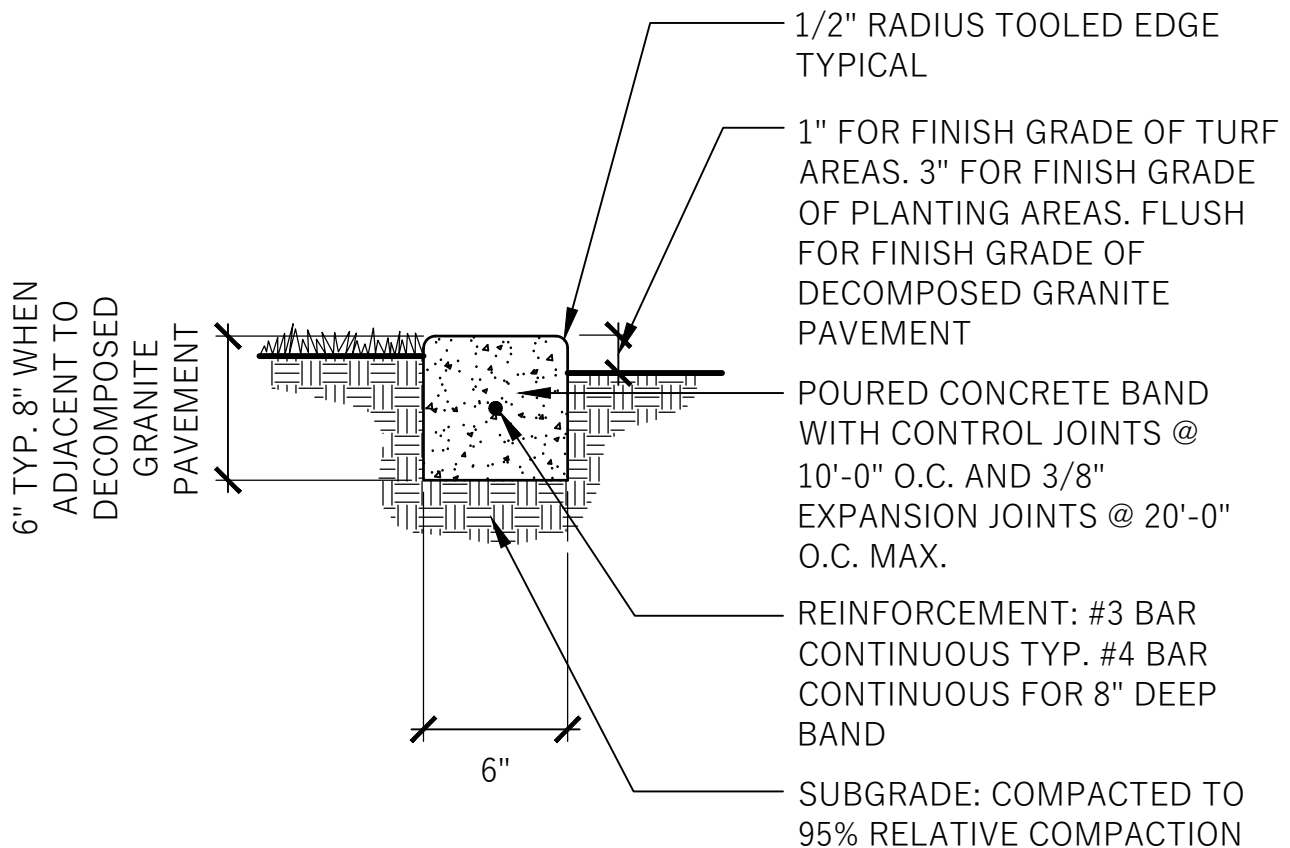
EXPANSION JOINT



CONTROL JOINT

NOTES:

1. DISCONTINUE REBAR 3" FROM ALL EXPANSION JOINTS
2. EXPANSION JOINTS SHALL BE PLACED AT 20' MAX INTERVALS.
3. CONTROL JOINTS SHALL BE SPACED EQUALLY TO THE WIDTH OF PATH. LIMIT RECTANGULAR PANELS SO THE LONG SIDE IS NO MORE THAN 1.5 TIMES THE SHORT SIDE.

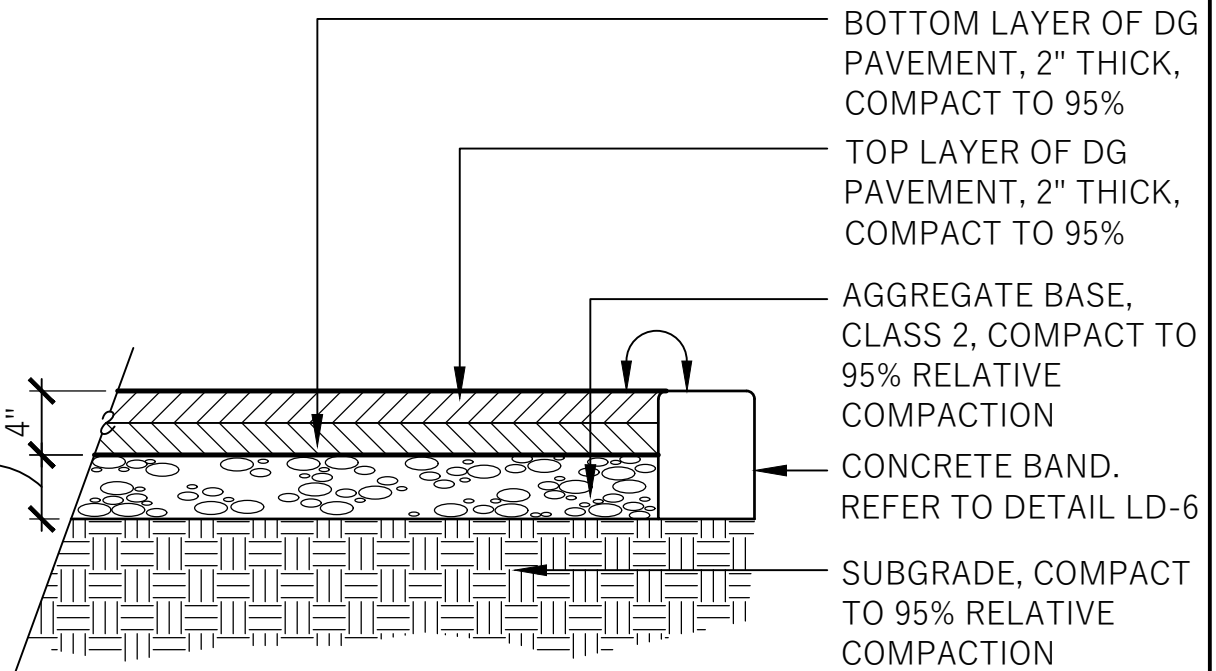


**NOTES:**

1. REFER TO DETAIL LD-4 FOR CONCRETE MIX INFORMATION.
2. REFER TO LD-5 FOR ADDITIONAL EXPANSION AND CONTROL JOINT INFORMATION.
3. PROVIDE TROWEL FINISH, SMOOTH, PARALLEL TO THE LONGEST SURFACE.



PER GEOTECHNICAL  
ENGINEER'S  
RECOMMENDATION



**NOTES:**

1. BOTTOM LAYER OF DG PAVEMENT SHALL BE COMPACTED BEFORE INSTALLATION OF TOP LAYER
2. DECOMPOSED GRANITE PAVEMENT SHALL BE YELLOW-BROWN OR GOLD IN COLOR AND MEET THE FOLLOWING SIEVE ANALYSIS:

SIEVE SIZE	PERCENT PASSING
3/8"	100%
NO. 4	85% - 100%
NO. 8	65% - 85%
NO. 30	35% - 65%
NO. 200	15% - 30%

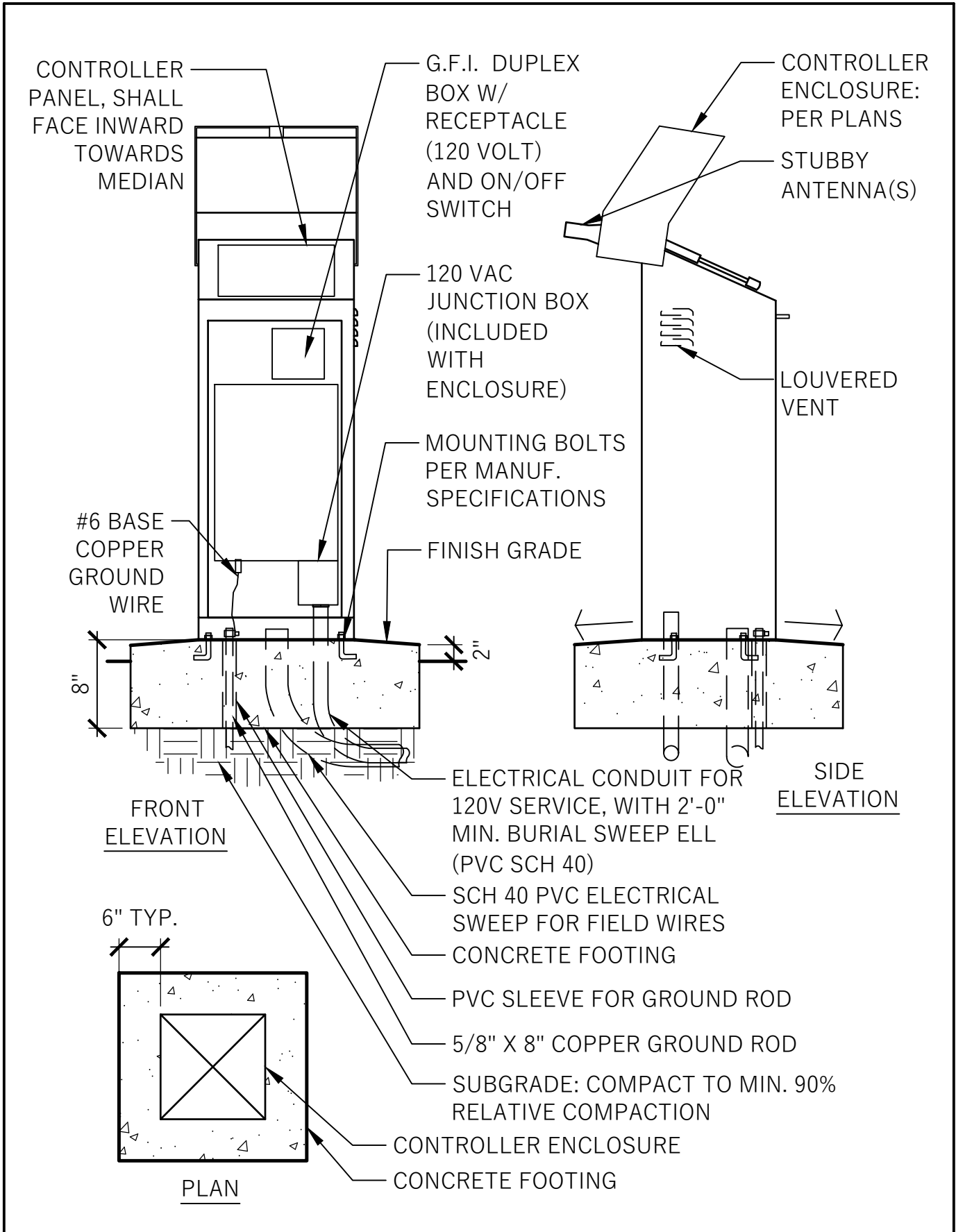
3. SUBMIT ONE-QUART PRODUCT SAMPLE AND BINDER PRODUCT DATA TO PARKS DIVISION FOR APPROVAL PRIOR TO DELIVERY TO THE SITE.
4. BINDER SHALL BE USED IN ALL DECOMPOSED GRANITE PAVEMENT APPLICATIONS AND SHALL BE PRE-MIXED OFF SITE BY THE SUPPLIER.
5. BINDER SHALL BE A PATENTED, NON-TOXIC ORGANIC BINDER THAT IS A COLORLESS AND ODORLESS CONCENTRATED POWDER THAT BINDS DECOMPOSED GRANITE PAVEMENT TO PRODUCE A FIRM SURFACE. RATE OF BINDER SHALL BE PER MANUFACTURER'S RECOMMENDATION.

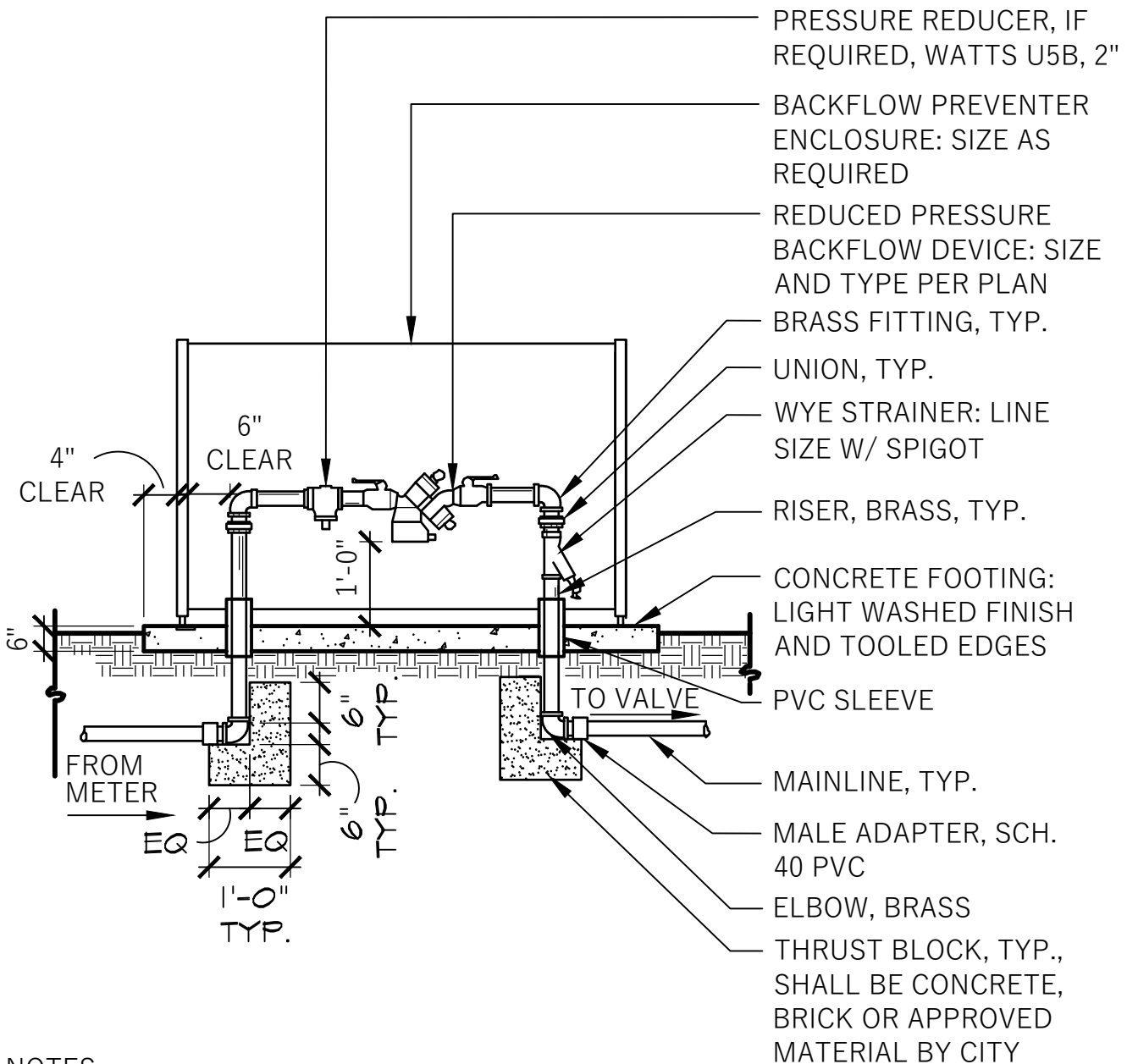
DESCRIPTION	MANUFACTURER	MODEL (if applicable)	COMMENTS	STANDARD DETAIL #
Backflow Preventer	Febco	825Y		LD-10
Backflow Preventer Enclosure	Strong Box	SBBC-CR Models	Front entry enclosure, size as required, dark green color	LD-10
Master Valve	Superior	3300 Series NO	NO=Normally Open	LD-12
Flow Sensor	Calsense	FM Series	Size as required based on operating range	LD-11
Controller	Calsense	CS3000 Series	Including CS3-GR-BUNDLE-2 (4G LTE cellular modem, includes GR - STUBBY antenna and prepaid 10 - year data plan for 1 - cellular modem communicating with 1 or 2 controllers)	LD-9
Controller Enclosure	Calsense	SSE enclosure		LD-9
Remote Control Valve	Rainbird	PEB Series	Size as required. Include PRS-D pressure regulating dial if pressure exceeds 90 P.S.I.	LD-13
Drip Remote Control Zone Kit	Rainbird	XCZ-100-PRB-COM	For low pressure situations use 1" PESB valve with 1" large capacity disc filter LCEBY100D and pressure regulator PSI-H40X-100	LD-14
Ball Valve	Stockham	Bronze ball valve	Size per mainline, up to 4"	LD-15
Quick Coupling Valve	Rainbird	44LRC		LD-16
Irrigation Trenching - Mainline			Sch.40 PVC for 2" & less, Class 315 PVC for 2-1/2" to 4"	LD-17
Irrigation Trenching - Lateral Line		Sch. 40 PVC		LD-17
Sleeve		Sch. 40 PVC		LD-17

DESCRIPTION	MANUFACTURER	MODEL (if applicable)	COMMENTS	STANDARD DETAIL #
Tree Emitter	Rainbird	XBD-80	Tree irrigation is dependent on site conditions. Tree irrigation type shall be approved by City.	LD-18, LD-19
Shrub/Groundcover/ Grass Bubbler	Rainbird	1401		LD-20
Pop-up Sprayhead	Rainbird	Spray Body: RD 1800 SAM-PRS-30 or -45 Series Spray Head: HE-VAN Series	1800 SAM-PRS includes check valve	LD-21
	Hunter	Spray Body: Pro-Spray PRS30 or PRS40, Spray Head: MP Rotators	Including CV=Factory-installed drain check valve (4", 6", and 12" models only)	LD-21
Pop-up Rotor	Hunter	I-20, I-25, I-40, I-50	I-20, I-25 for small and medium areas. I-40, I-50 for medium and large areas.	LD-21
Inline Drip Irrigation	Rainbird	XFS-CV		LD-22
Tree Ring Dripline	Rainbird	XFS-CV	Tree irrigation is dependent on site conditions. Tree irrigation type shall be approved by City.	LD-23
Drip Header		Sch.40 PVC		LD-24
Drip Manual Flush Valve	Matco Norca	770G PVC Ball Valve - Sch. 80	1/2" size	LD-25
Drip Air Vacuum Relief Valve	Rainbird	ARV050	For subsurface use only. See detail for additional requirements	LD-26
Drip Operation Indicator	Hunter	ECO-Indicator		LD-27
Valve Box	Carson	1419, 1324 or 910	1419 for RCV, MV, FS, 1324 for DRCVK 910 for BV, AVR, FV, QCV & TE	LD-28

DESCRIPTION	MANUFACTURER	MODEL (if applicable)	COMMENTS	STANDARD DETAIL #
Waterproof Splice	3m	DBR/ Y-6 Direct bury splice kit	Install per manufacturer's recommendation	
Threaded Connections		Threaded sealant teflon tape	Sealant and teflon tape shall be be white in color. Threaded sealant shall be for metal threaded connections, teflon tape shall be for plastic connections. Install sealant or teflon tape per manufacturer's recommendation	
Standardize Glue and Primer	Weld-On	Glue: 711 PVC Industrial Grade (Gray) Primer: P-70 Industrial Grade (Purple)	Install per manufacturer's recommendation	

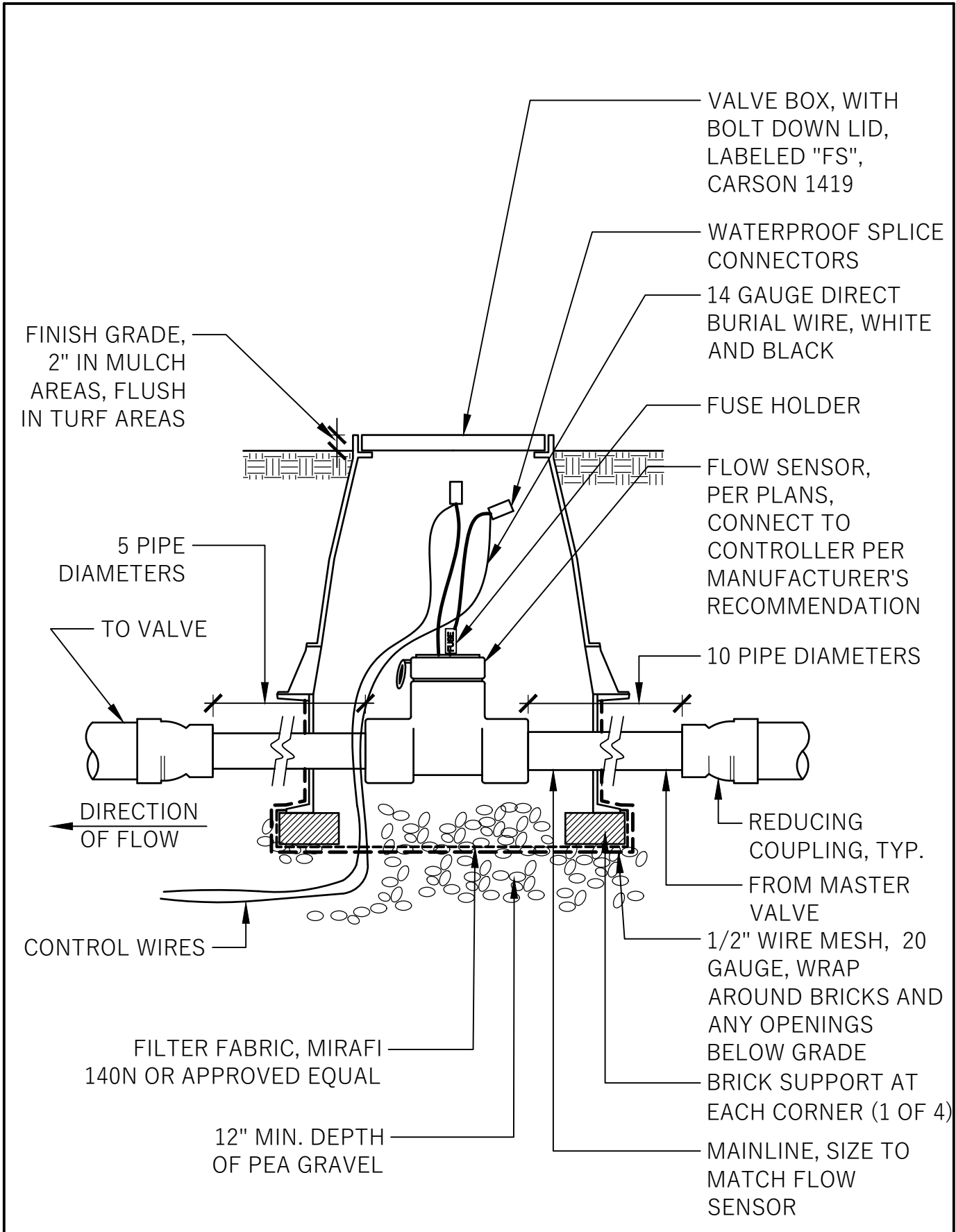
\* Recycled Water Equipment: All recycled water projects shall utilize recycled water designated equipment. All recycled water equipment must be identified as conveying recycled water (purple color) and that the water is not for drinking. Equipment that must comply are valve boxes, I.D. tags, warning labels, sprayheads, bubblers, piping, valves and any other equipment designated by the City.

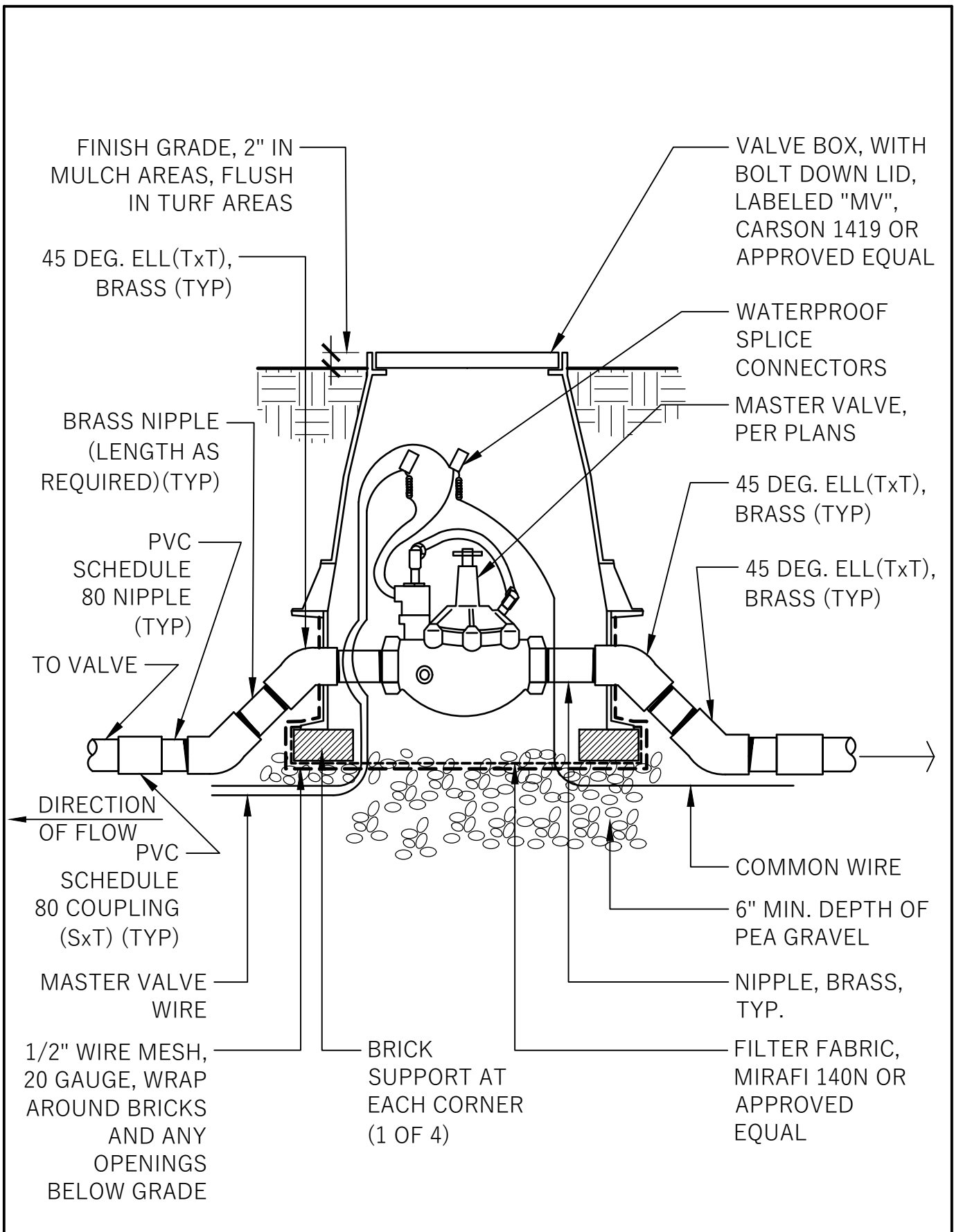




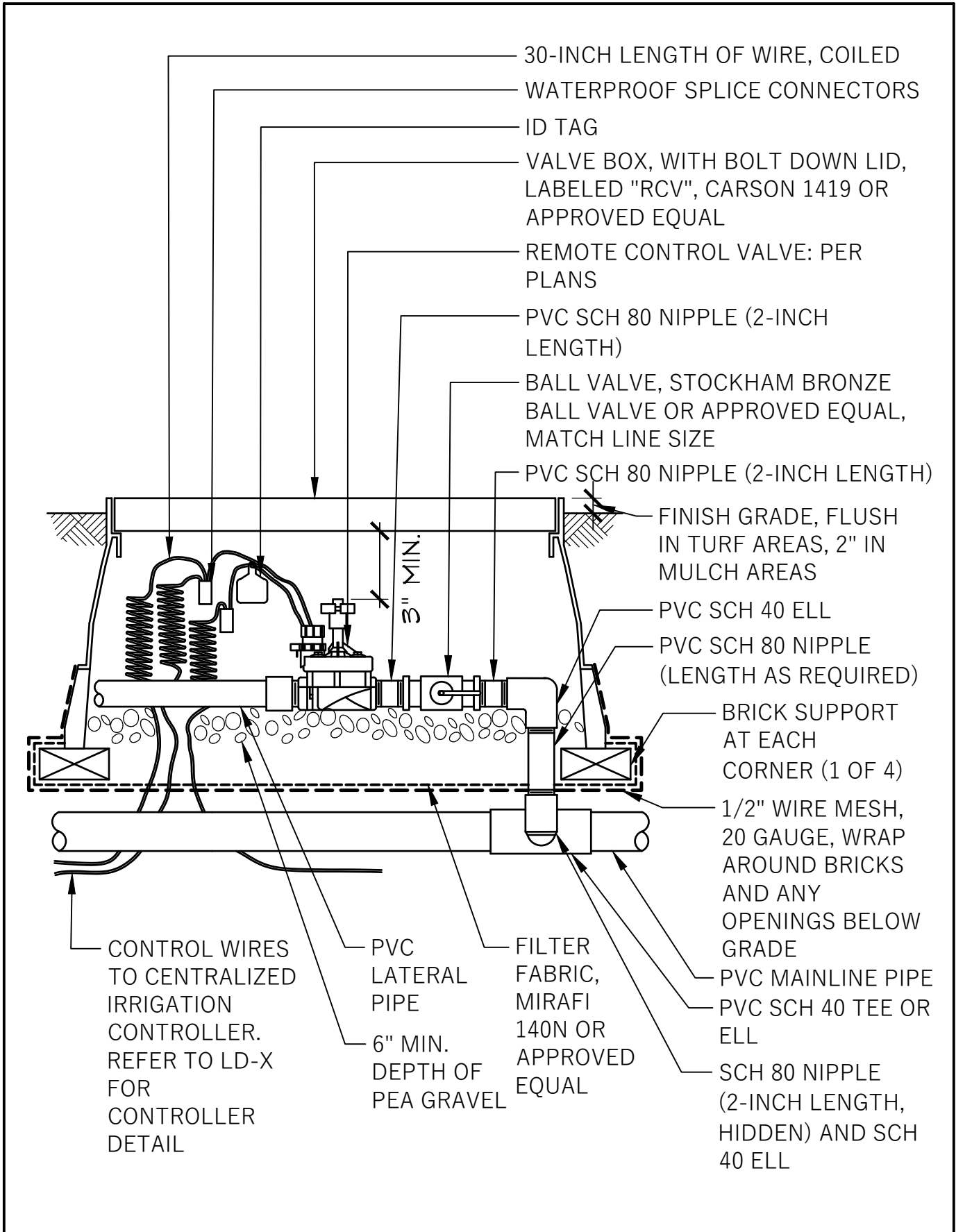
**NOTES:**

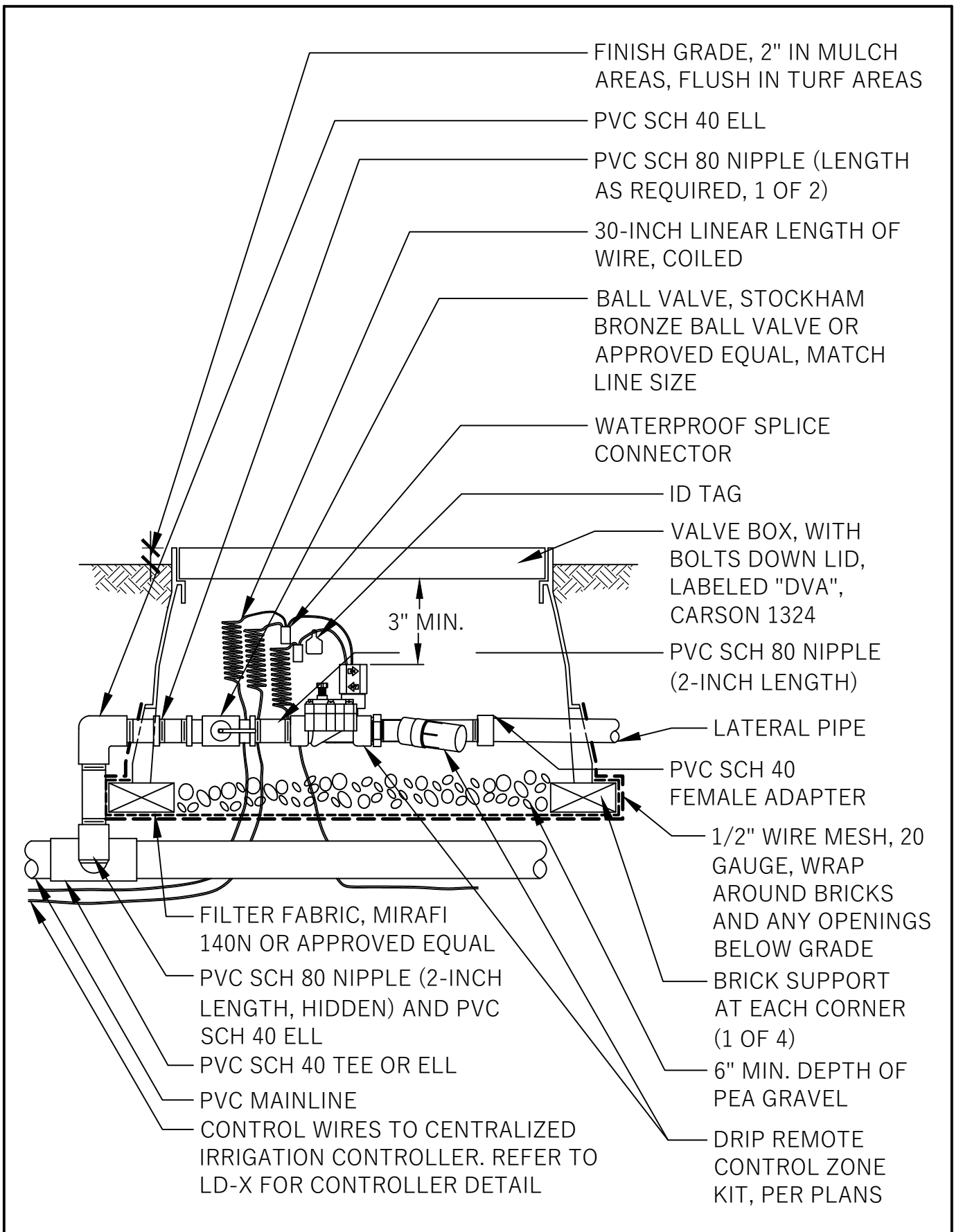
1. REFER TO DETAIL LD-8 IRRIGATIONS MATERIALS LIST FOR BACKFLOW PREVENTER AND ENCLOSURE MATERIALS.
2. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.
3. INSTALL ENCLOSURE IN CONCRETE PER MANUFACTURER'S RECOMMENDATION.
4. THRUST BLOCKS SHALL NOT PROJECT HIGHER THAN 1/2 THE DISTANCE FROM THE BOTTOM OF THE TRENCH TO THE FINISH GRADE. DO NOT COVER ENDS OF FITTINGS OR BOLTS WITH CONCRETE. CONCRETE SHALL HAVE COMPRESSION STRENGTH OF 2000 P.S.I. THRUST BLOCKING IS REQUIRED ALONG PIPES WHERE: PIPE CHANGES DIRECTION/STOPS OR DEAD ENDS. THRUST BLOCK SHALL BE PLACED BELOW TEES OR ENDS AND MEET SIZE REQUIREMENTS SHOWN ABOVE.

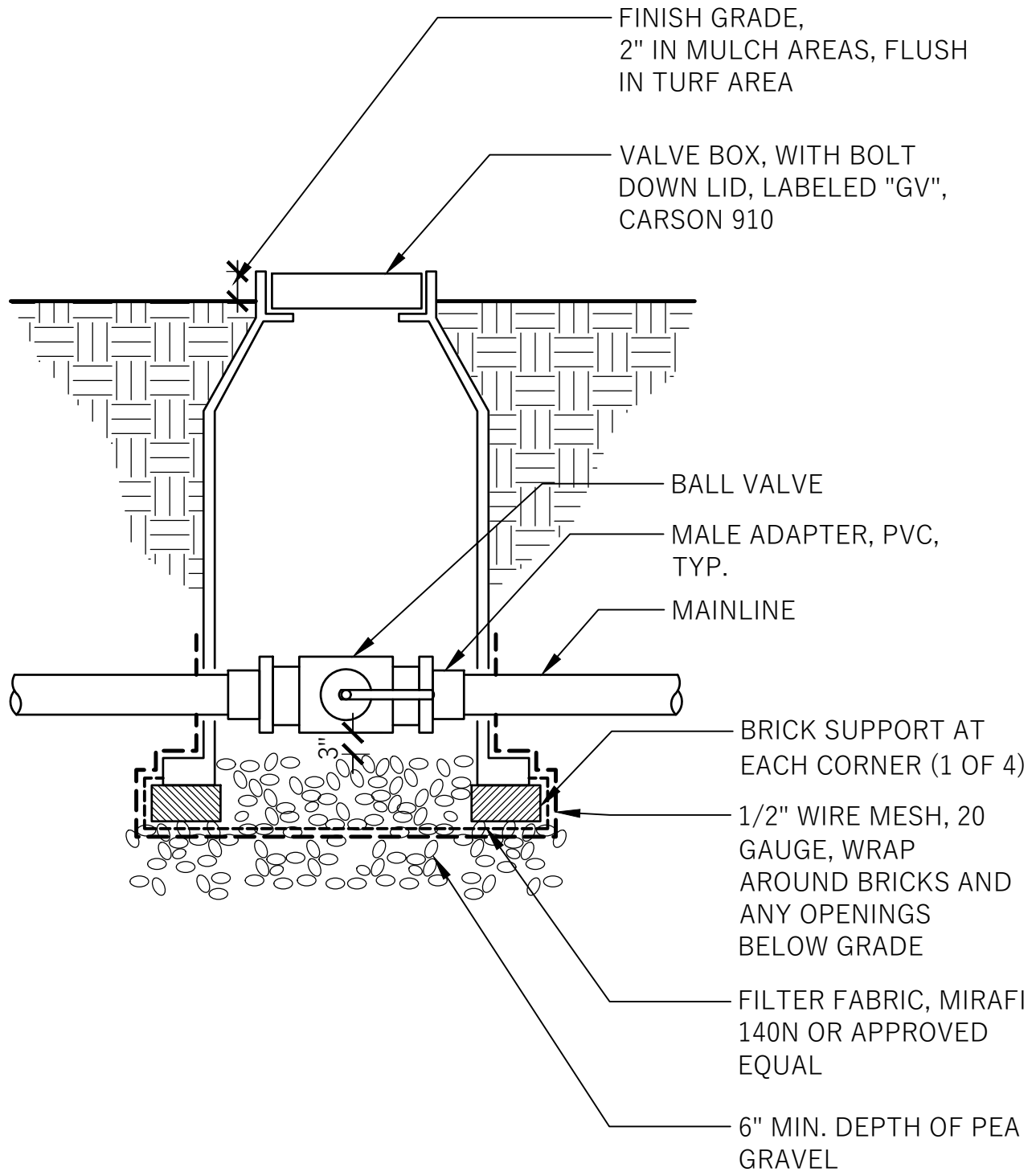


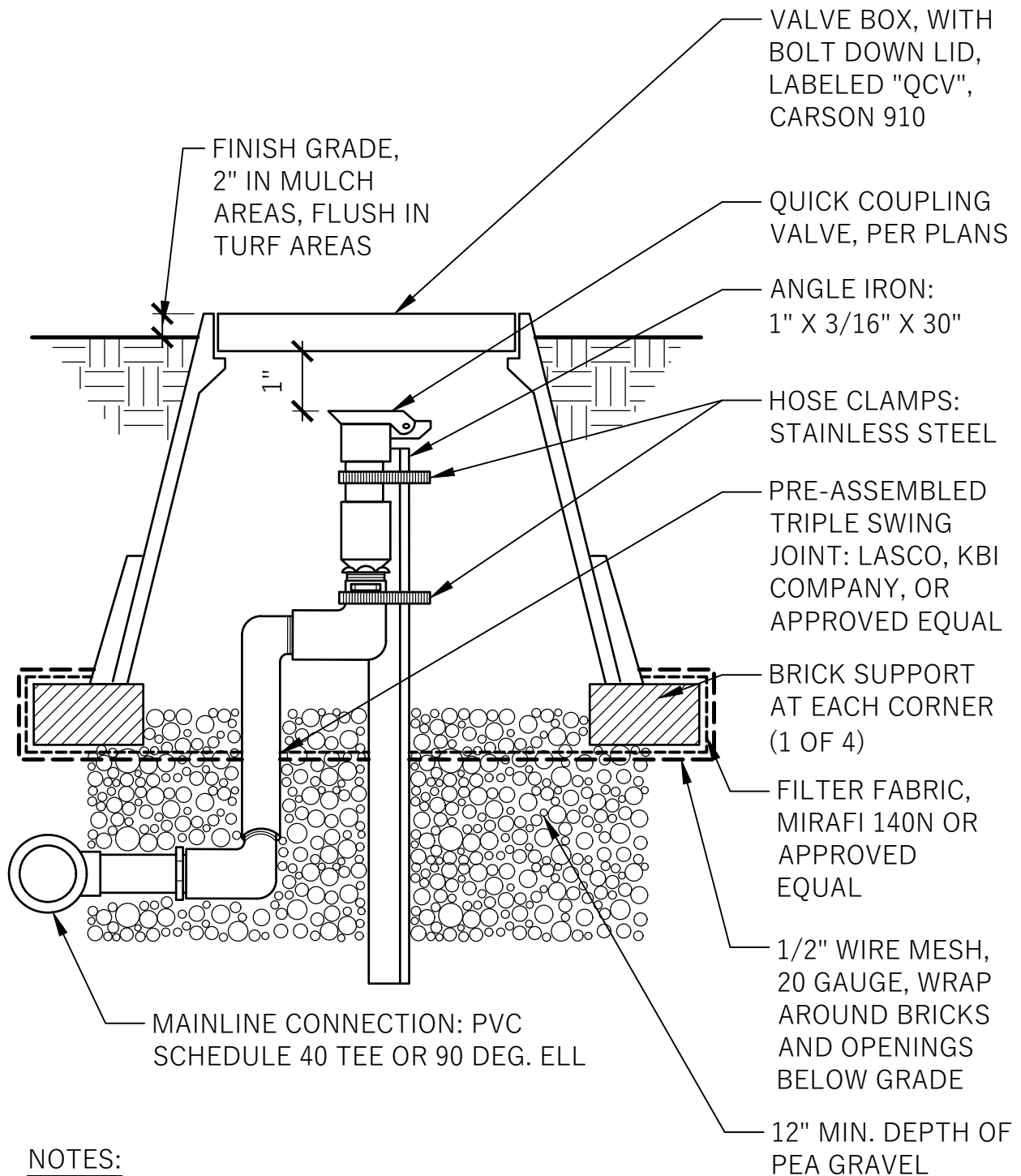






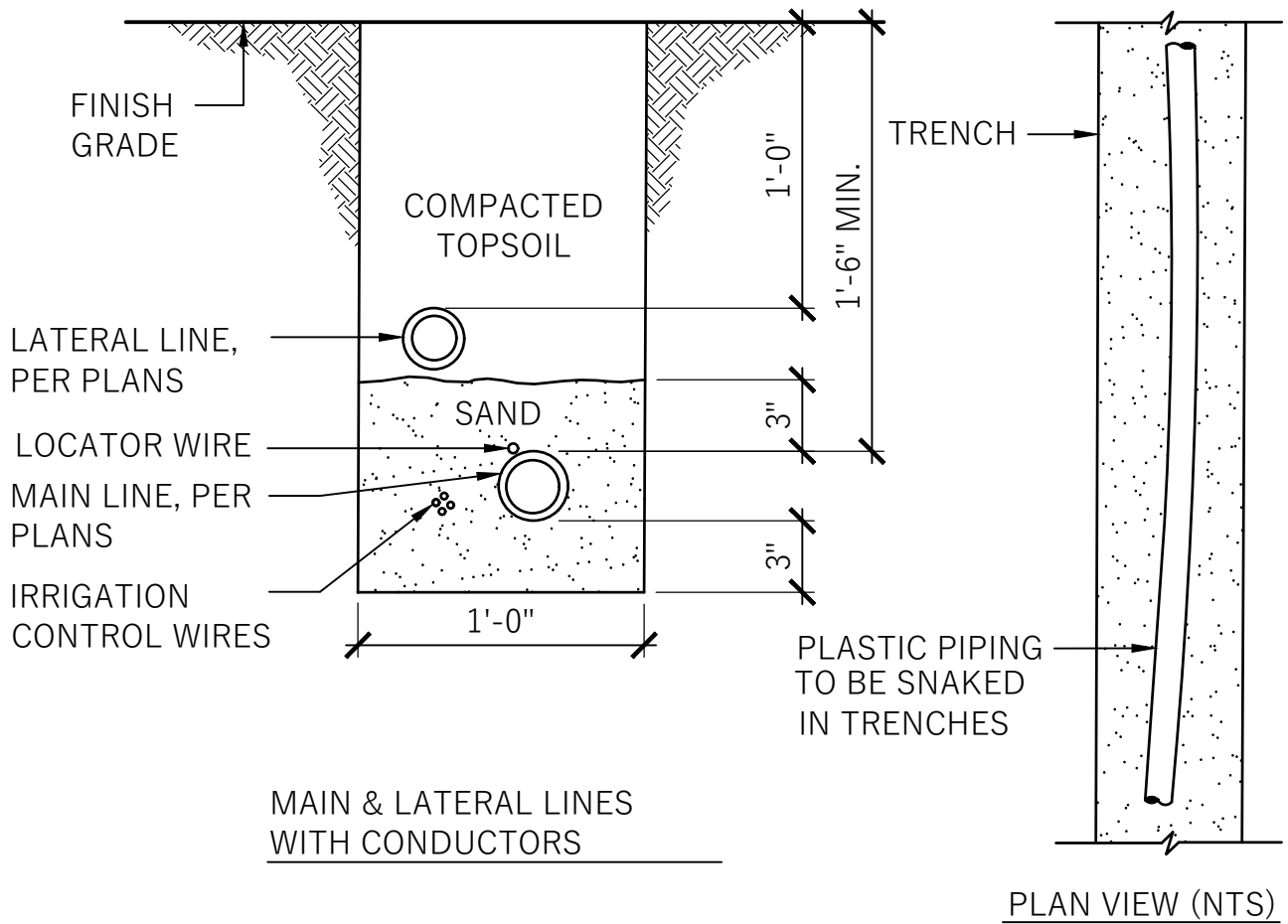






**NOTES:**

1. CONTRACTOR SHALL PROVIDE TWO (2) VALVE KEYS AND TWO (2) SWIVEL HOSE-ELLS.

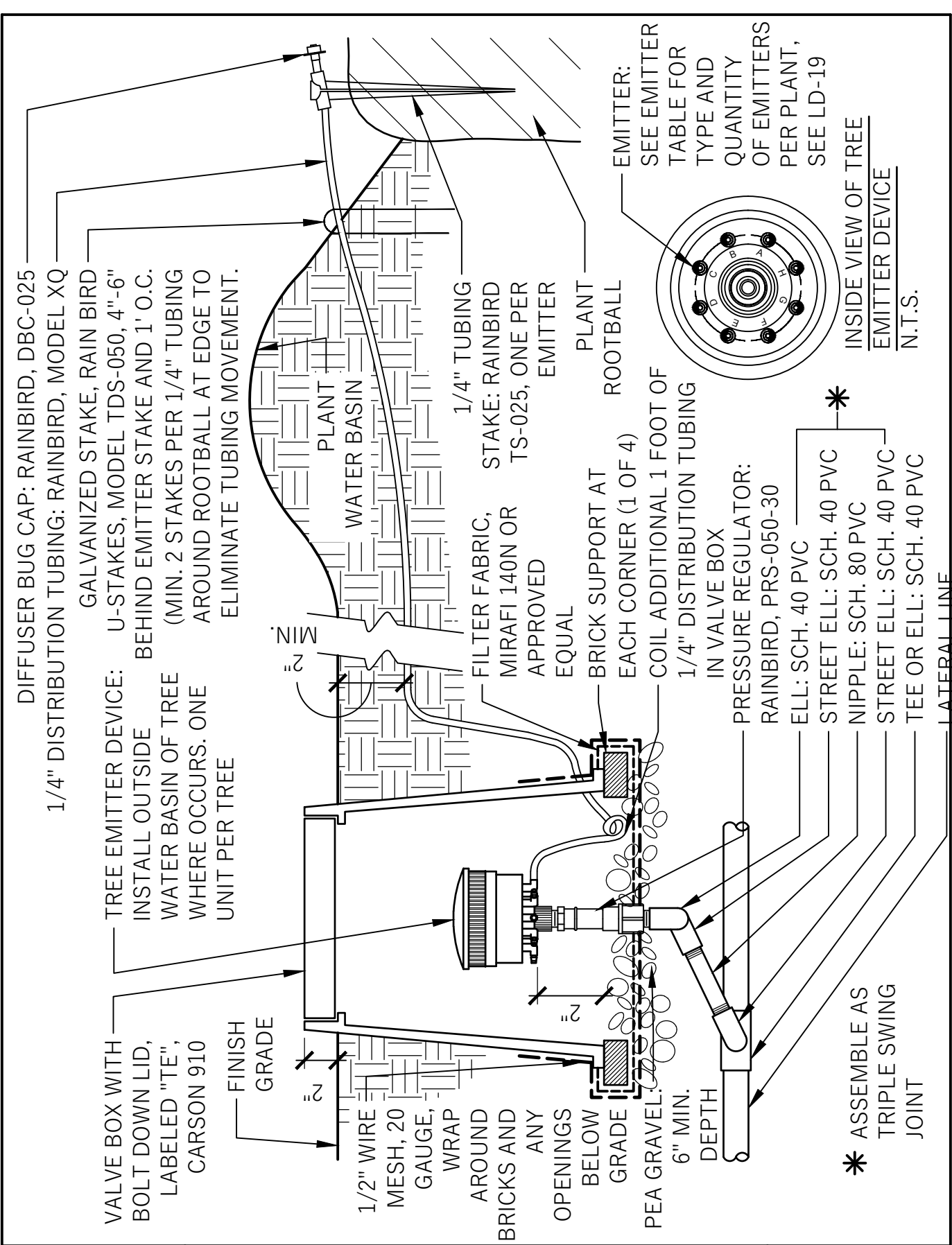


NOTES:

1. ADEQUATELY SIZE ALL SLEEVES. SLEEVES SHALL BE A MIN. TWICE THE DIAMETER OF THE PIPE AND WIRE CONDUIT WITHIN. SLEEVES SHALL BE INSTALLED AT THE NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION, MIN. DEPTH OF 6" BELOW PAVEMENT. SLEEVING SHALL EXTEND 1'-0" FROM EDGE OF PAVING INTO PLANTING AREA, AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE.
2. ALL PIPING BELOW PAVEMENT SHALL BE SLEEVED UNLESS OTHERWISE APPROVED BY THE PARKS DIVISION.
3. TAPE AND BUNDLE WIRING AT 10'-0" INTERVALS. IRRIGATION LINES SHALL HAVE A 1'-0" MIN. VERTICAL CLEARANCE FROM ALL UTILITIES. CONFIRM CLEARANCE WITH GOVERNING AGENCY.

**TREE EMITTER**

N.T.S.



**TREE EMITTER TABLE**

**EMITTER TABLE (TREE IN SUN)**

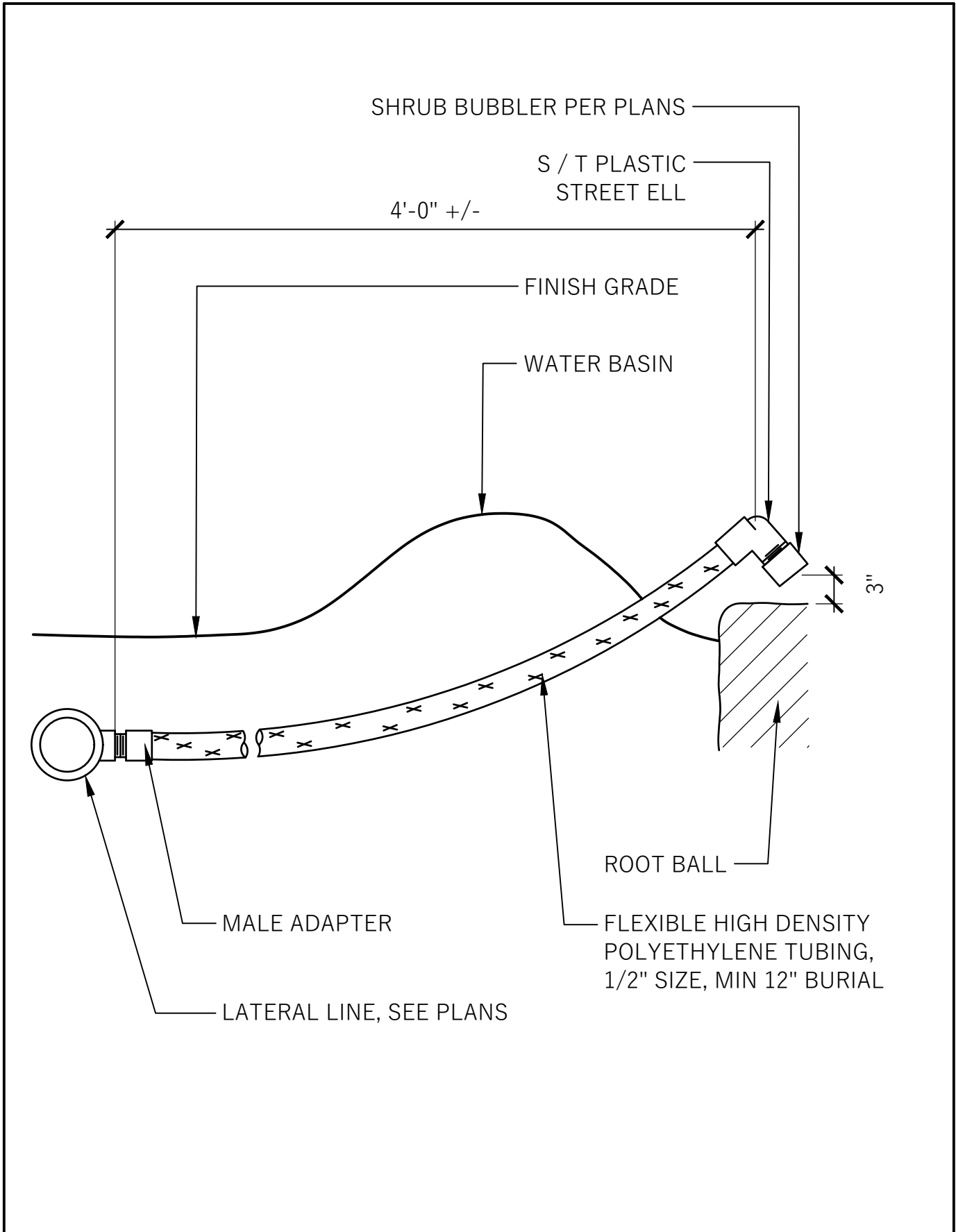
PLANT SIZE	# OF EMITTERS	TYPE OF EMITTERS
15 GALLON TREE	2	XB-20PC (2 GPH)
24" BOX TREE	4	XB-20PC (2 GPH)
36" BOX TREE	4	PC-05-1032 (5 GPH)
48" BOX TREE	6	PC-05-1032 (5 GPH)
60" BOX TREE	6	PC-07-1032 (7 GPH)
72" BOX TREE	6	PC-10-1032 (10 GPH)

**EMITTER TABLE (TREE IN SHADED LOCATION)**

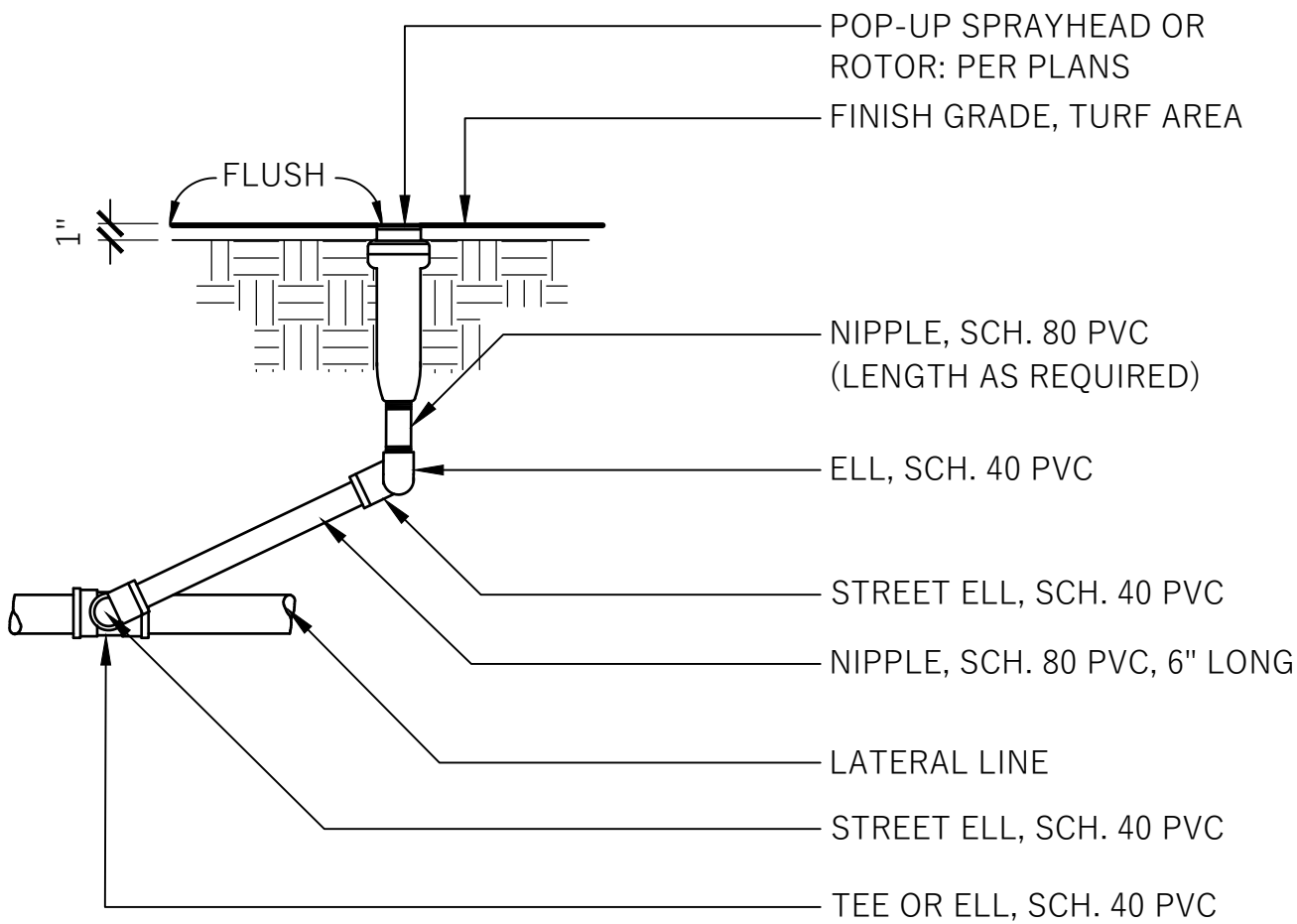
PLANT SIZE	# OF EMITTERS	TYPE OF EMITTERS	% OF (SUN) GPM
15 GALLON TREE	3	XB-10PC (1 GPH)	75%
24" BOX TREE	5	XB-10PC (1 GPH)	63%
36" BOX TREE	6	XB-20PC (2 GPH)	60%
48" BOX TREE	4	PC-05-1032 (5 GPH)	67%
60" BOX TREE	6	PC-05-1032 (5 GPH)	71%
72" BOX TREE	6	PC-07-1032 (7 GPH)	70%

**NOTES:**

- SEE ABOVE TABLE FOR SIZE AND QUANTITY OF EMITTERS PER TREE IN SUN OR SHADE AND WHEN TREES ARE CONNECTED TO SAME IRRIGATION ZONE.
- QUANTITY OF EMITTERS AND TYPE OF EMITTERS AS SHOWN ARE EDUCATED ESTIMATES TO BE USED AS A GUIDE ONLY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MONITORING TREES AND FOR APPLYING PROPER QUANTITIES OF WATER AS REQUIRED BASED ON THE TYPE AND SIZE OF TREE, AND ALL ENVIRONMENTAL FACTORS DURING PROJECT INSTALLATION AND SUBSEQUENT MAINTENANCE PERIOD. EMITTER QUANTITIES AND FLOWS SHALL BE CONFIRMED WITH THE CITY.
- PLACE ALL EMISSION POINTS AT 3/4 DISTANCE FROM TRUNK TO EDGE OF ROOTBALL ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF TREE ROOTBALL. CROSSING OVER ROOTBALL WITH 1/4" TUBING IS NOT ALLOWABLE AND SHALL BE REJECTED.
- WHEN DIFFERENT SPECIES OF TREES ARE TIED TO THE SAME ZONE VALVE, CONTRACTOR SHALL BE REQUIRED TO MAKE ADJUSTMENTS TO SIZE OF EMITTER (FOR QUANTITY OF WATER PURPOSES) FOR EACH TREE IN THE ZONE AS NEEDED TO PROVIDE PROPER AND ADEQUATE AMOUNT OF WATER AS REQUIRED BY EACH SPECIES. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR INFORMATION REGARDING PROPER AND ADEQUATE AMOUNT OF WATER AS REQUIRED BY EACH SPECIES.
- PROVIDE ONE DRIP MANUAL FLUSH VALVE AT END OF LATERAL LINE RUN OF EACH TREE EMITTER ZONE. IF ZONE IS SPLIT, PROVIDE TWO DRIP MANUAL FLUSH VALVES, ONE AT EACH END.

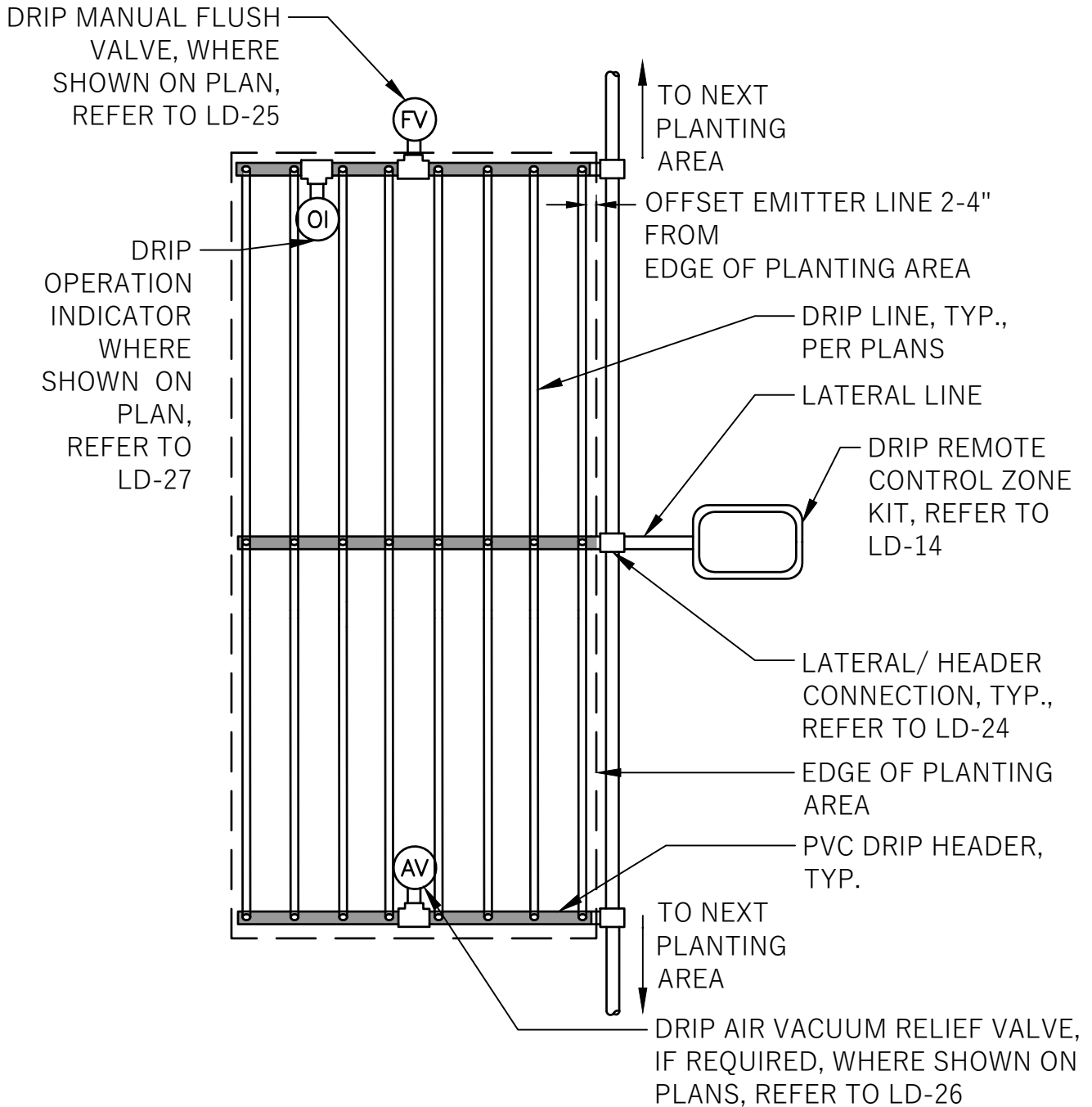






**NOTES:**

1. ASSEMBLE ENTIRE UNIT AS TRIPLE SWING JOINT. AS AN ALTERNATIVE TO THE ABOVE MATERIALS, "MARLEX" POLYETHYLENE FITTINGS OR A PRE-MANUFACTURED PRODUCT MAY BE SUBSTITUTED. ANY SUBSTITUTIONS MUST BE APPROVED BY PARKS DIVISION.
2. LOCATE HEAD 4" MIN. FROM WALKS, CURBS, HARDSCAPING AND LANDSCAPE EDGING IF ADJACENT HARDSCAPE DRAINS TOWARDS LANDSCAPE AREAS OR 24" IF ADJACENT HARDSCAPE DRAINS AWAY FROM LANDSCAPE AREA.

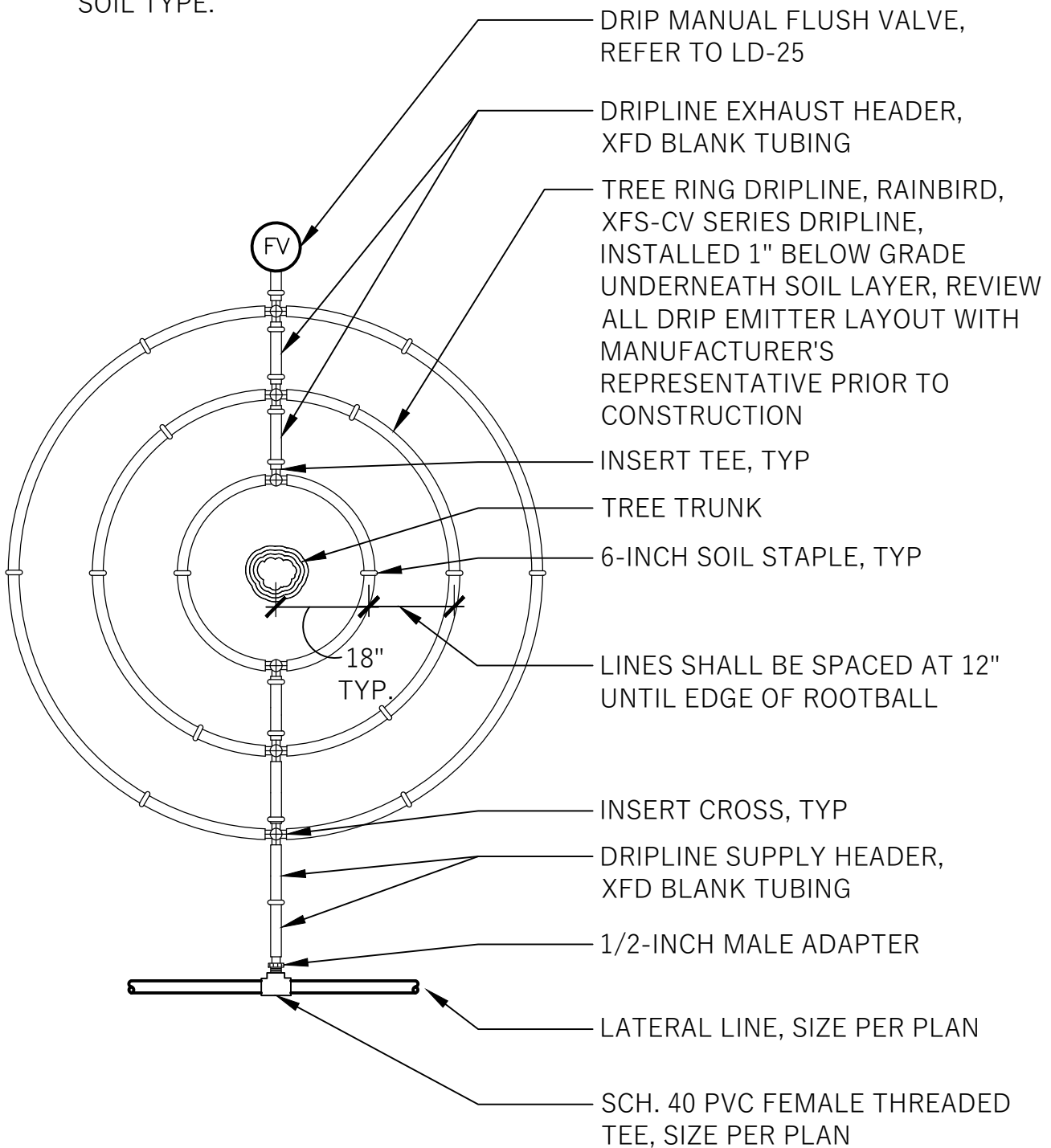


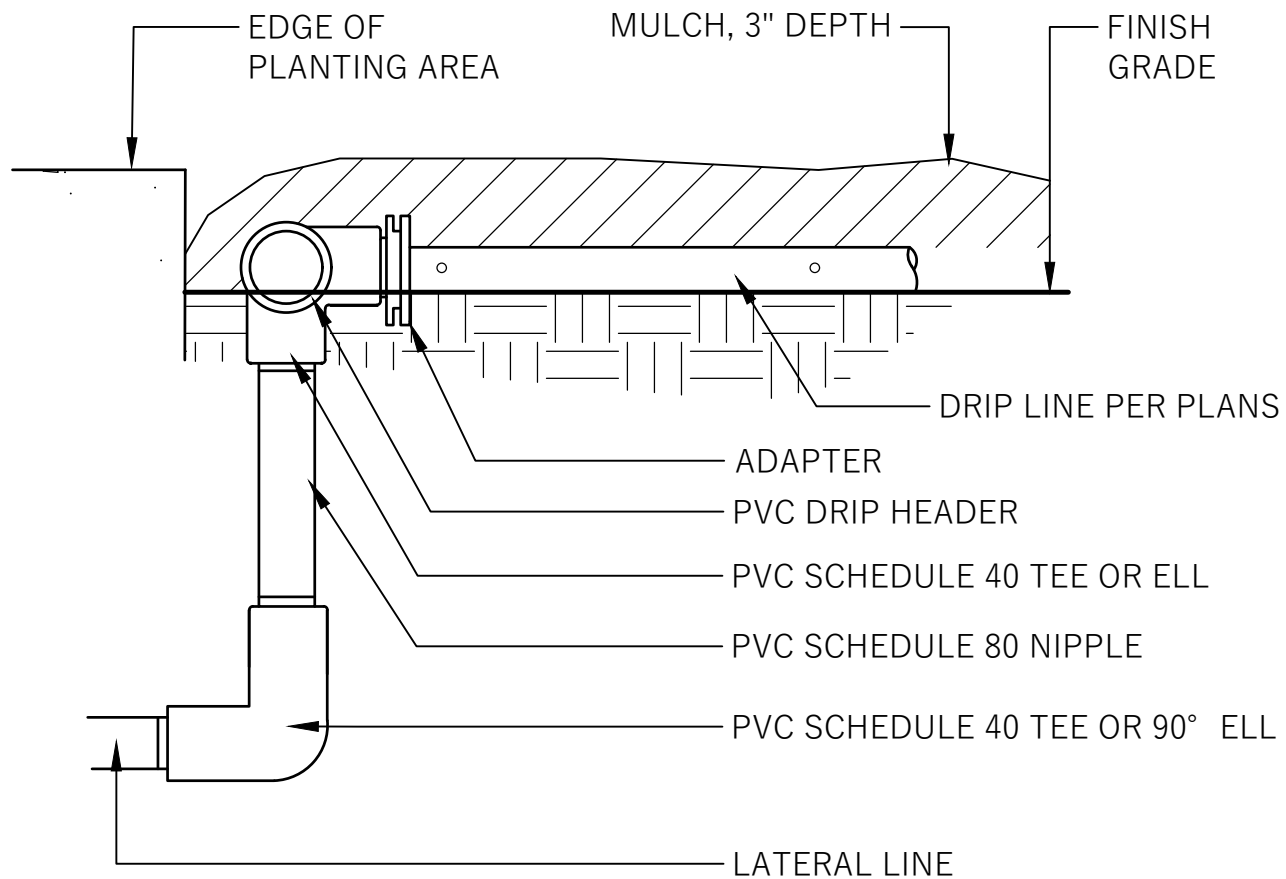
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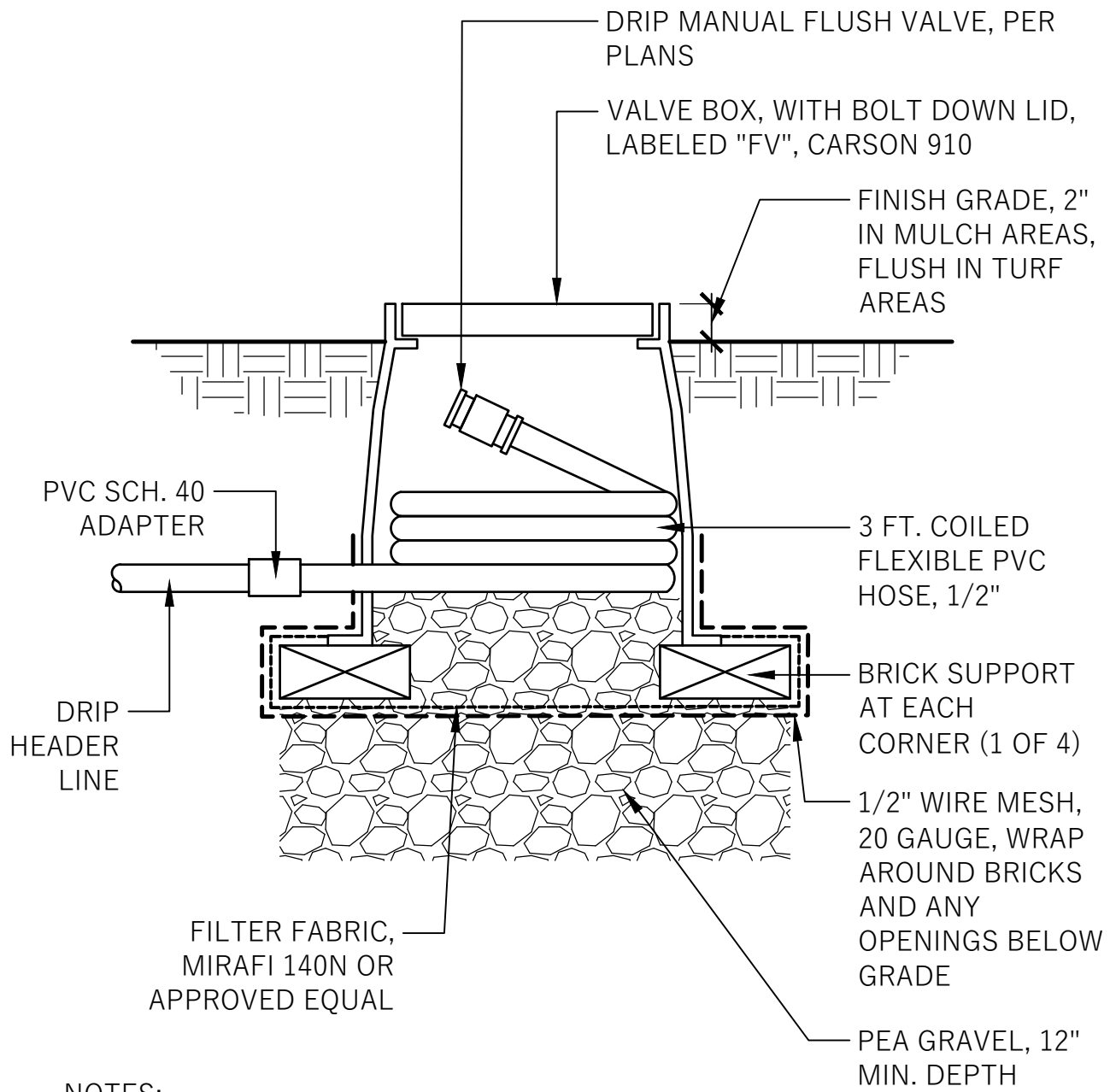
1. STAKE EMITTER LINE EVERY 4' WITH 6" LONG GALVANIZED STAKE.
2. LOCATE ALL DRIP IRRIGATION COMPONENTS WITHIN PLANTING AREAS.
3. FLOW RATE, DRIPLINE SPACING, AND EMITTER SPACING SHALL BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. REFER TO RAINBIRD DESIGN INSTALLATION GUIDE FOR RECOMMENDATIONS AND MAXIMUM DRIPLINE LENGTHS.
4. REFER TO RAINBIRD DRIPLINE INSTALLATION GUIDE FOR ALL REQUIRED DRIPLINE FITTINGS AND CONNECTIONS.

**NOTES:**

1. STAKE EMITTER LINE EVERY 4'-0"
2. FLOW RATES OF EMITTERS SHOULD BE DETERMINED BY DESIGNER BASED ON SOIL TYPE.

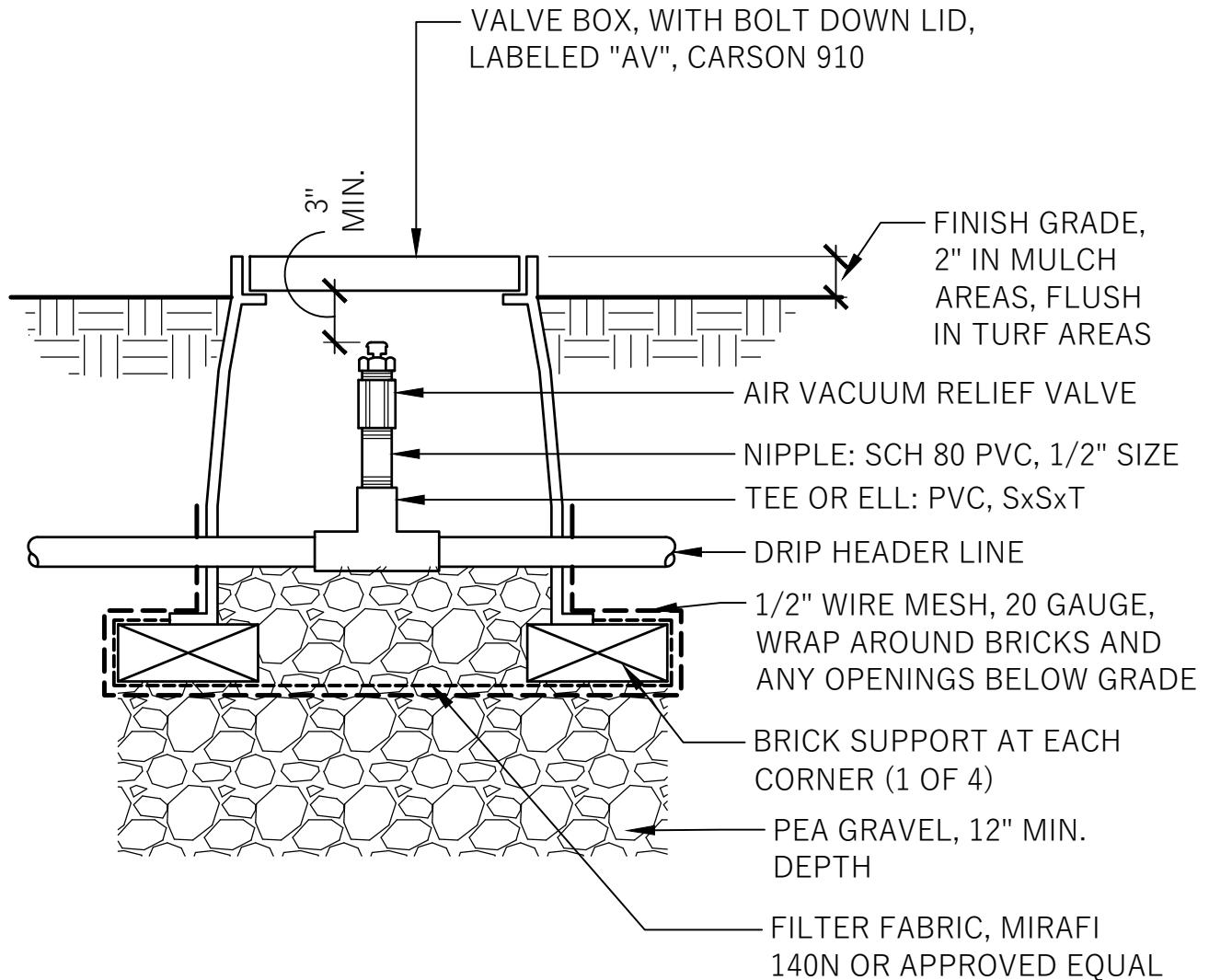






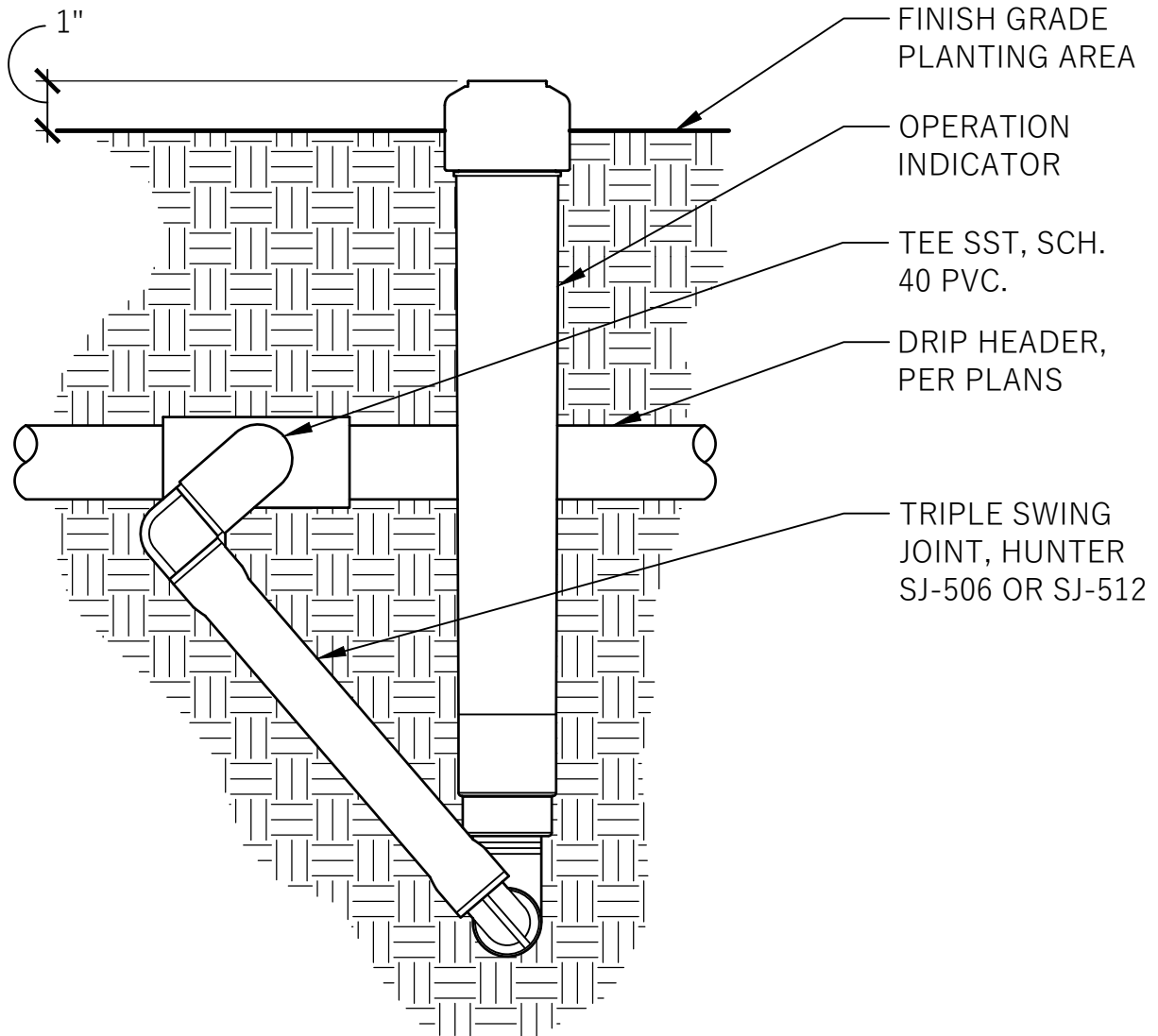
**NOTES:**

1. INSTALL FLUSH VALVE AT LOW END OF DRIP HEADER LINE.



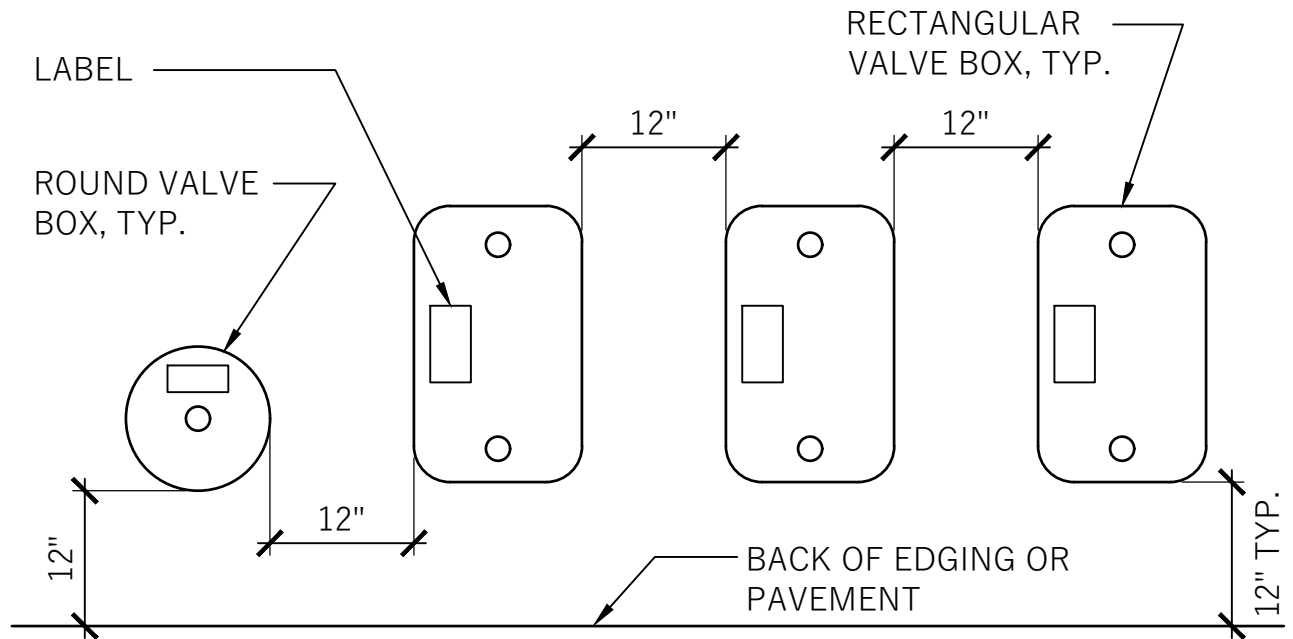
**NOTES:**

1. IF REQUIRED, INSTALL AIR VACUUM RELIEF VALVE ON HIGH END OF DRIP HEADER.
2. AIR VACUUM RELIEF VALVE IS REQUIRED FOR RAINBIRD XFS, SUB-SURFACE DRIPLINE. USE OF XFS SUB-SURFACE PRODUCT MUST BE APPROVED BY PARKS DIVISION PRIOR TO USE. REFER TO RAINBIRD DRIPLINE DESIGN INSTALLATION GUIDE FOR REQUIREMENTS.



**NOTES:**

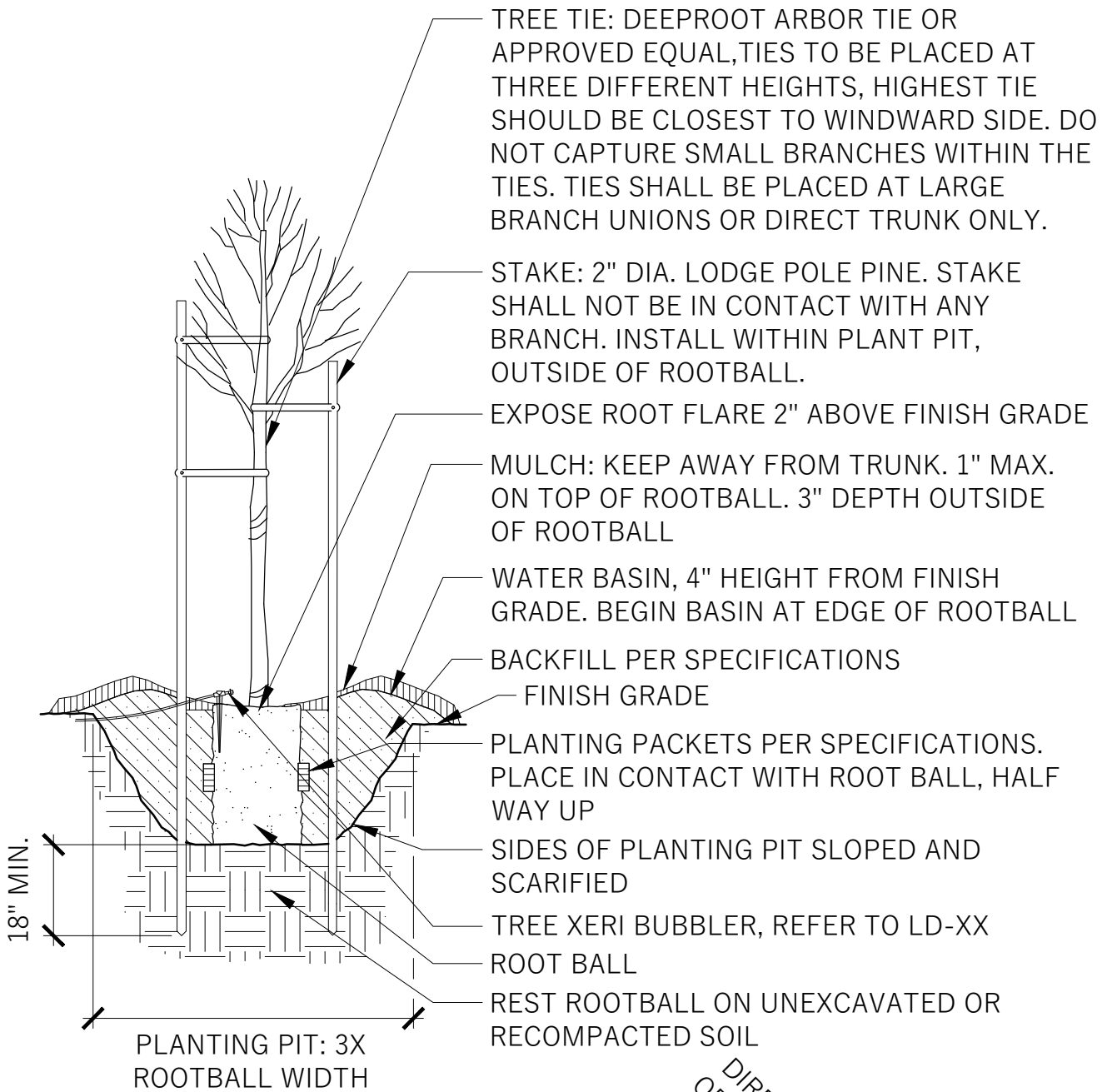
1. INSTALL DRIP OPERATION INDICATOR AT FURTHEST POINT FROM DRIP REMOTE CONTROL ZONE KIT, ONE PER EACH ZONE.



**NOTES:**

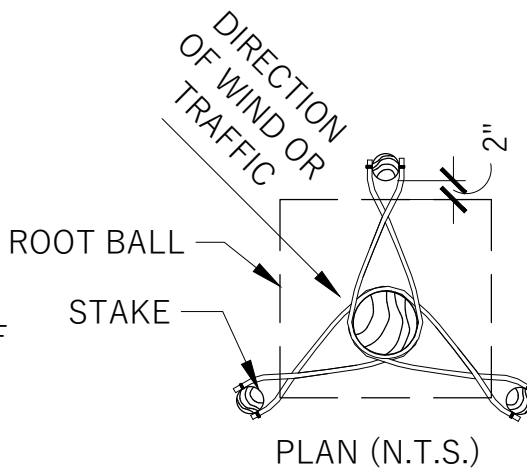
1. CENTER VALVE BOX OVER VALVE TO FACILITATE SERVICING VALVE.
2. SET VALVES AND VALVE BOX ASSEMBLY IN GROUNDCOVER/SHRUB AREAS.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
4. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOXES.

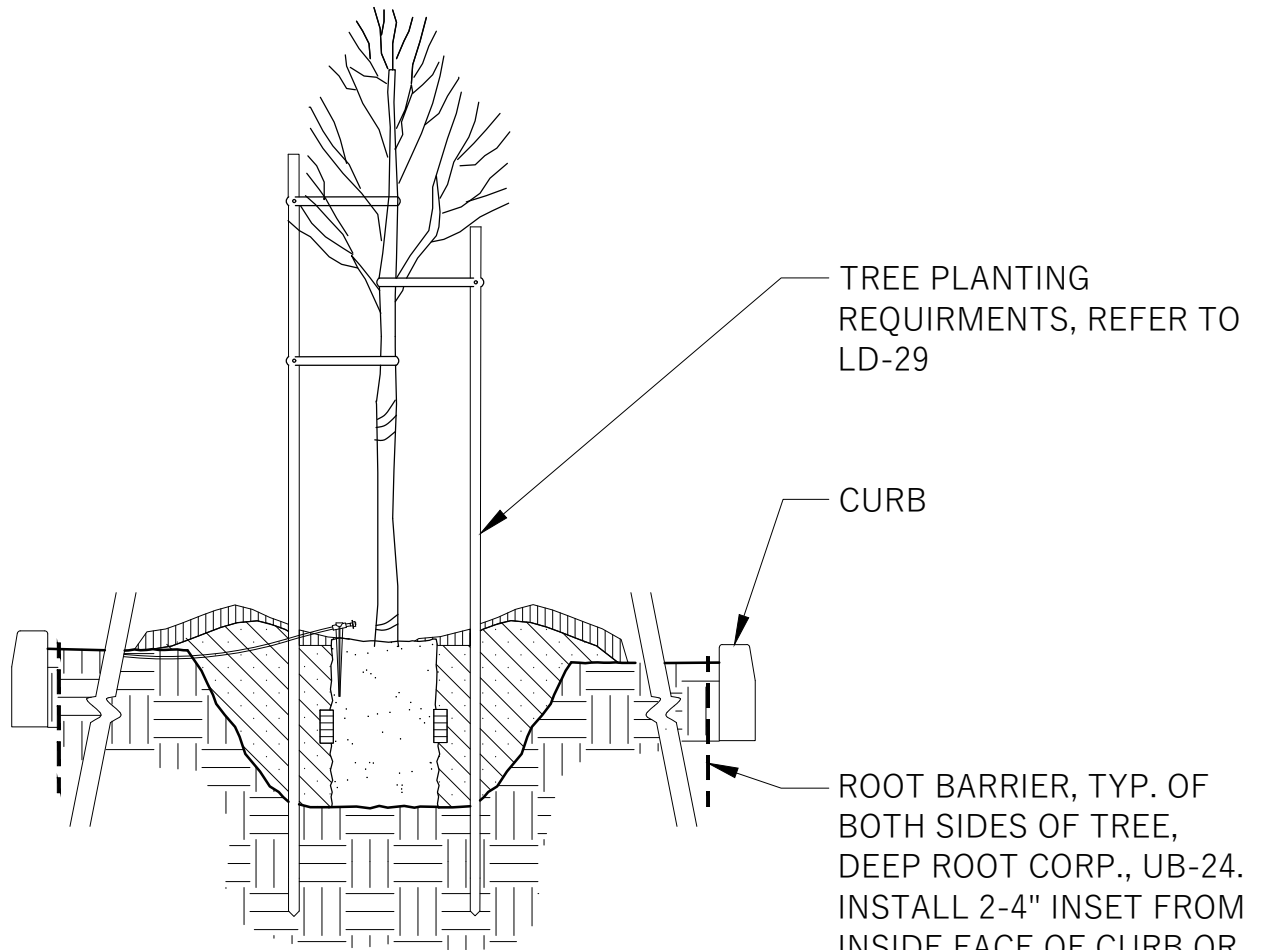




**NOTES:**

1. FERTILIZER, PLANT PACKETS, AMENDMENTS AND BACKFILL RECOMMENDATIONS SHALL BE DETERMINED BY A HORTICULTURAL SOIL ANALYSIS.
2. WHEN TREE IS LOCATED WITHIN 6' OF CURB, SIDEWALK OR OTHER HARDSCAPE INSTALL ROOT BARRIER PER LD-30.

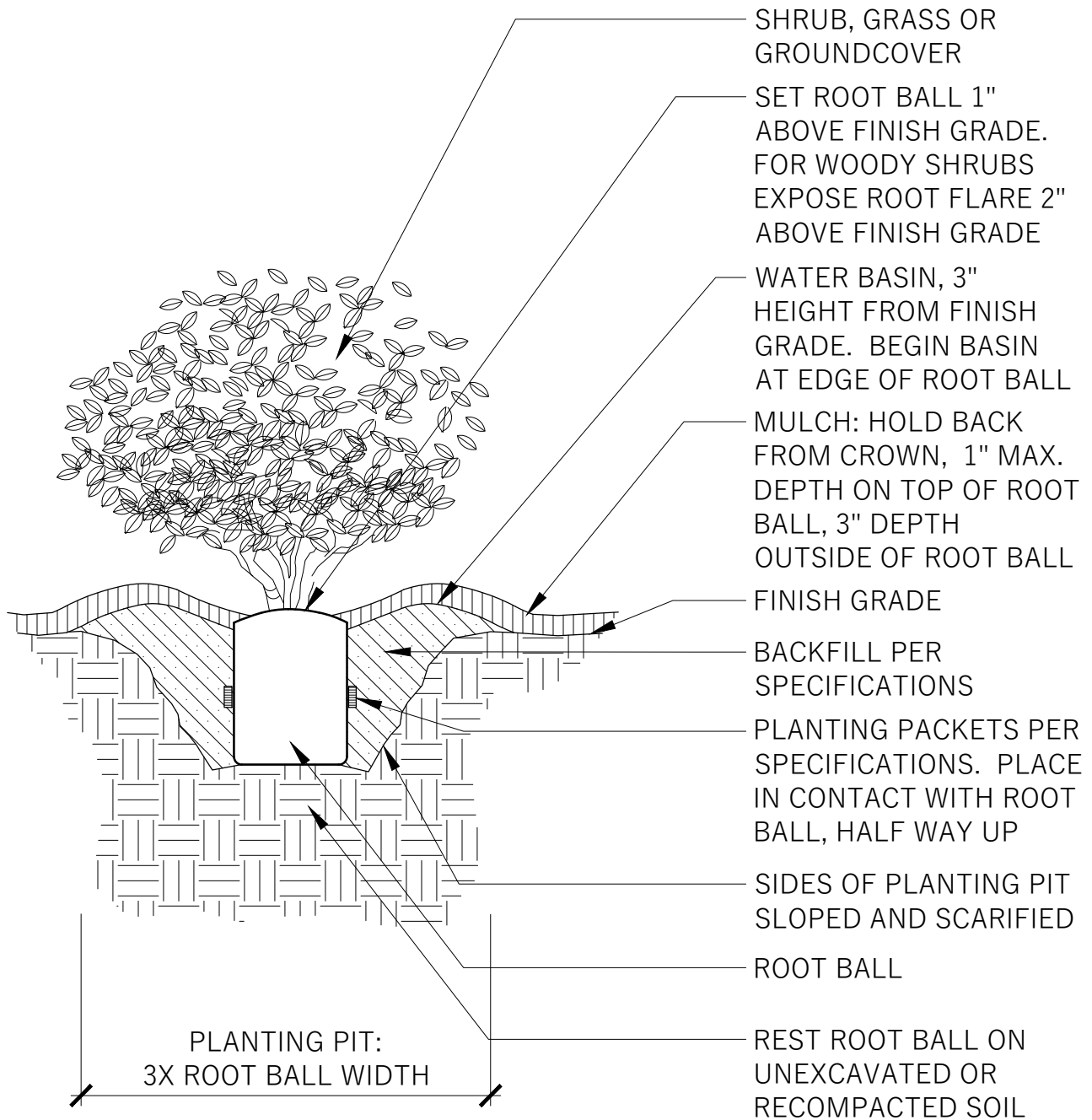




TREE PLANTING  
REQUIREMENTS, REFER TO  
LD-29

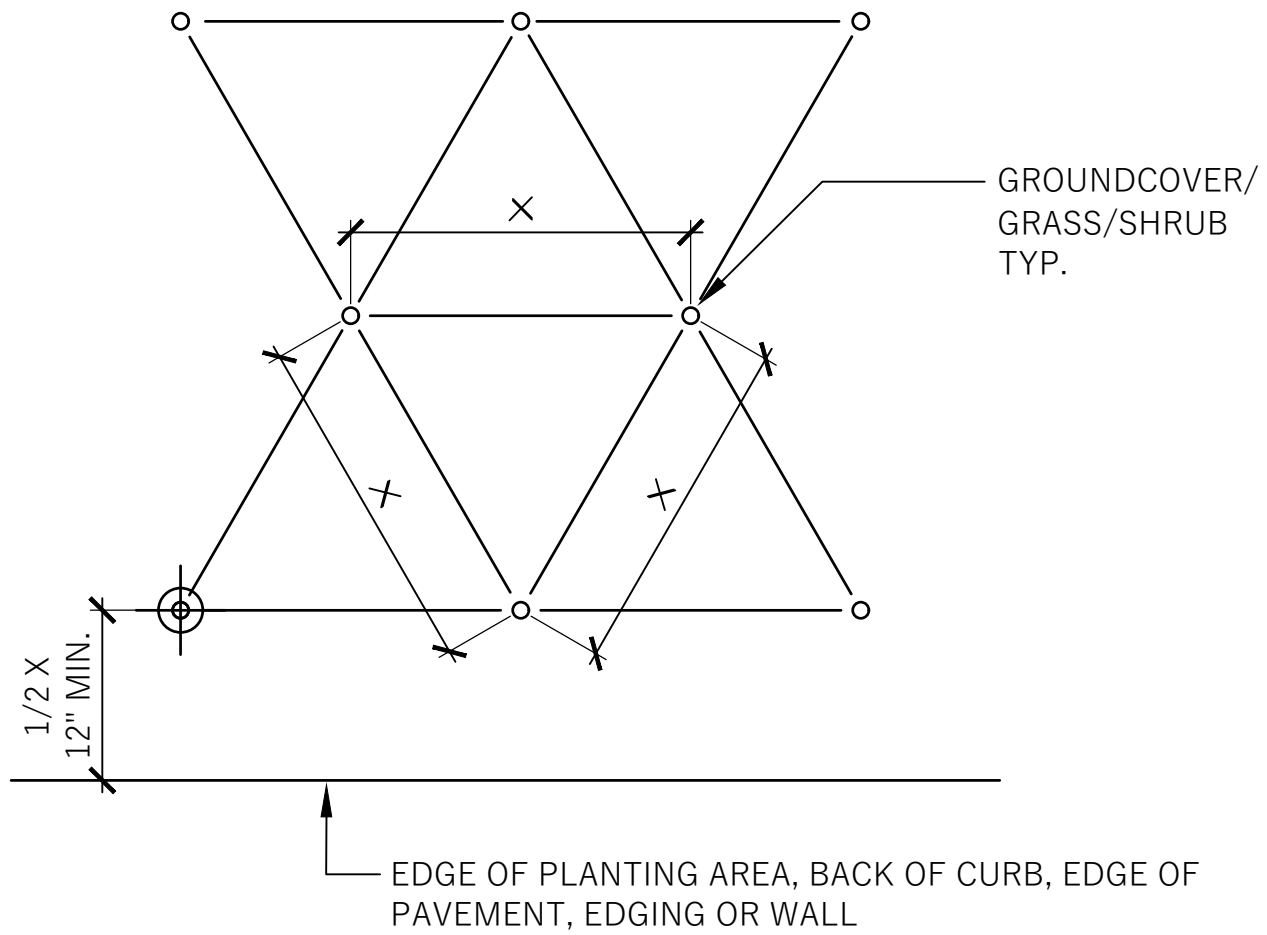
CURB

ROOT BARRIER, TYP. OF  
BOTH SIDES OF TREE,  
DEEP ROOT CORP., UB-24.  
INSTALL 2-4" INSET FROM  
INSIDE FACE OF CURB OR  
PAVEMENT AND 1" ABOVE  
FINISH GRADE PER  
MANUFACTURER'S  
RECOMMENDATION.  
PROVIDE 10 LF OF ROOT  
BARRIER OR MORE  
DEPENDENT ON TREE  
SPECIES, CENTERED ON  
TREE. CONFIRM WITH CITY  
PRIOR TO INSTALLATION  
OF TREES WHERE ROOT  
BARRIER IS REQUIRED.

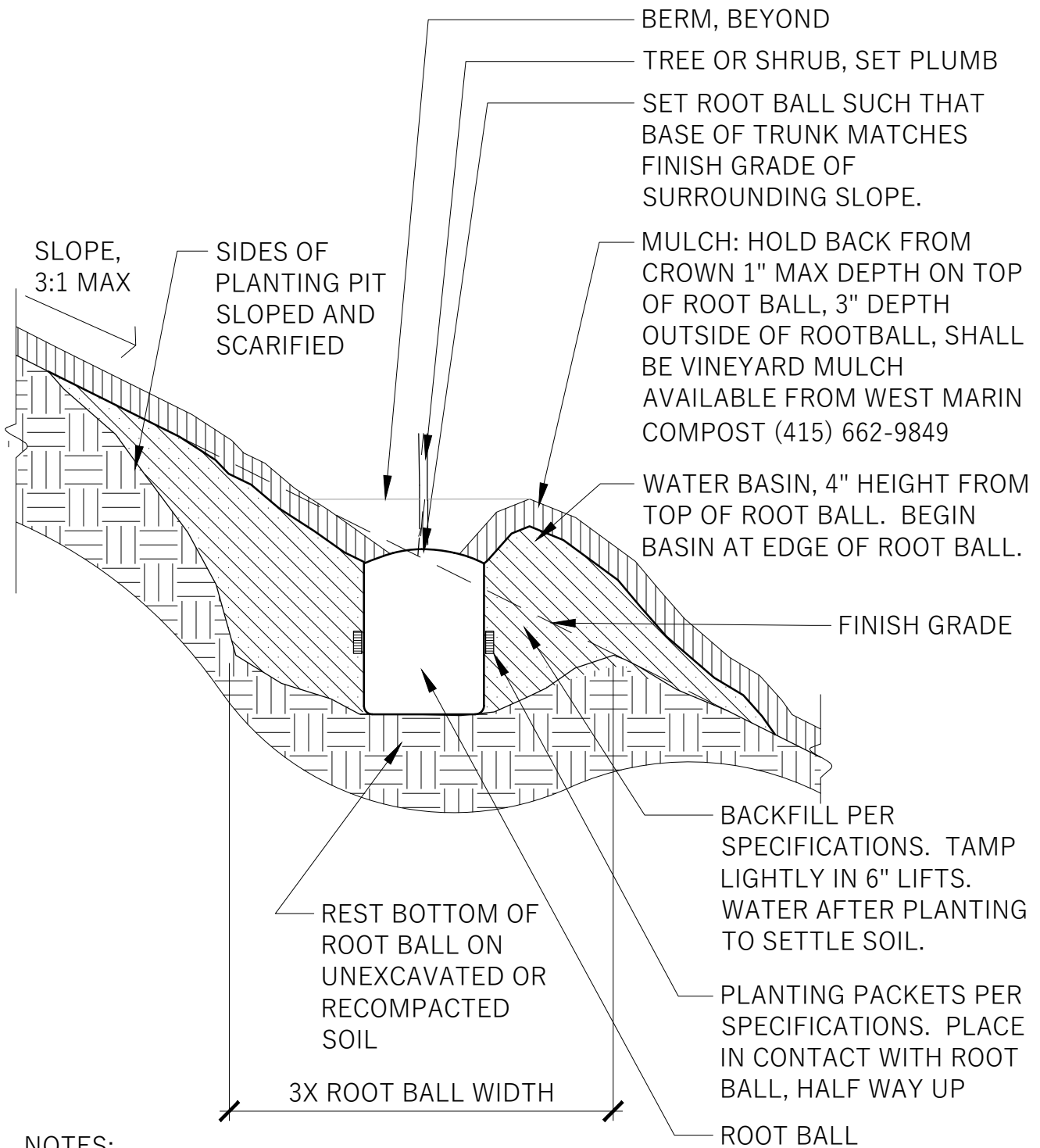


**NOTES:**

1. FERTILIZER, PLANT PACKETS, AMENDMENTS AND BACKFILL RECOMMENDATIONS SHALL BE DETERMINED BY A HORTICULTURAL SOIL ANALYSIS.

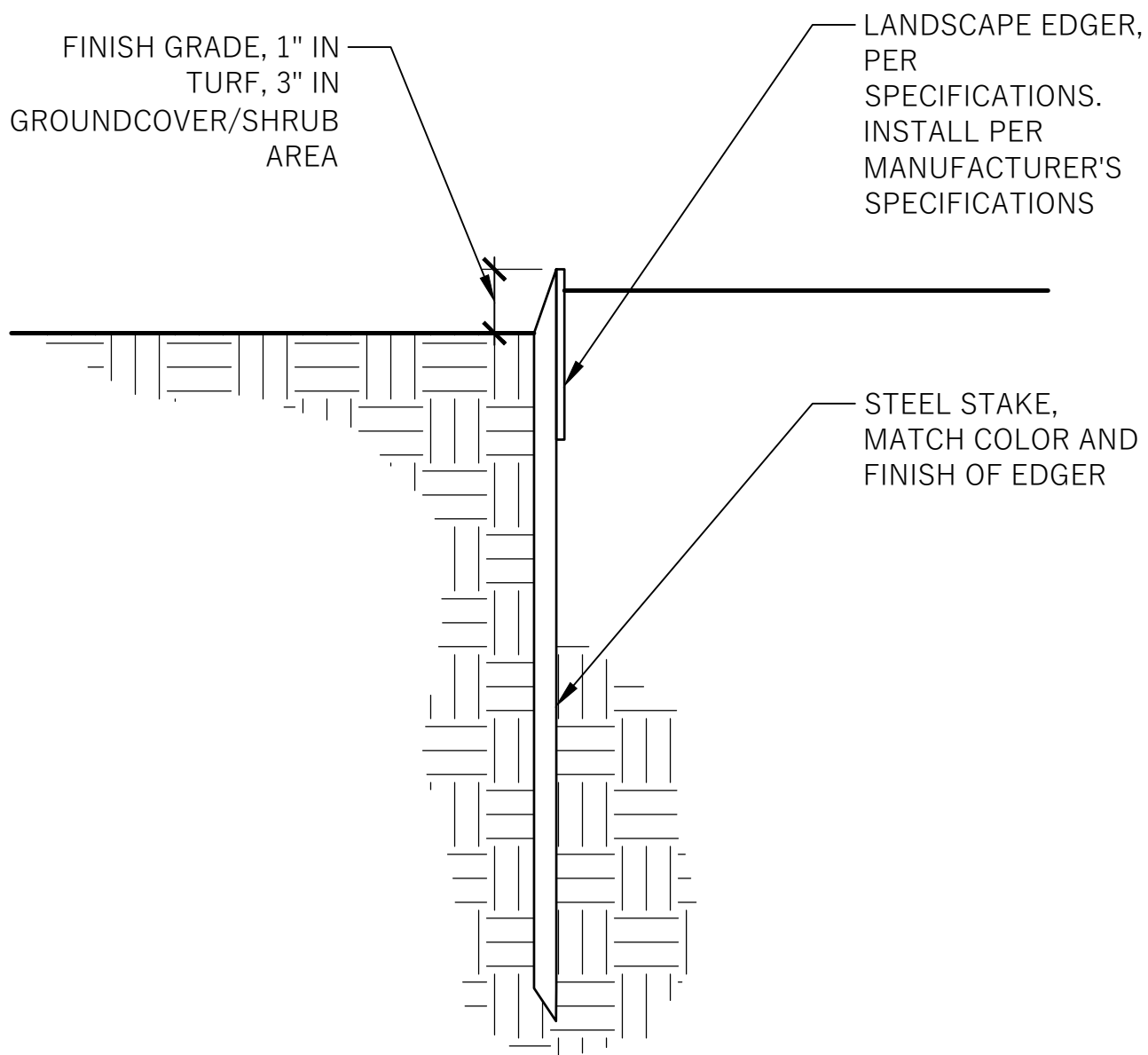


NOTE:  
FOR PLANT SPACING 'X' SEE PLANTING PLAN



**NOTES:**

1. REFER TO LD-29 FOR TREE STAKING AND LD-18 TREE EMITTER INFO. REFER TO LD-20 FOR SHRUB BUBBLER INFO.
2. FERTILIZER, PLANT PACKETS, AMENDMENTS AND BACKFILL RECOMMENDATIONS SHALL BE DETERMINED BY A HORTICULTURAL SOIL ANALYSIS.



NOTES:

1. LANDSCAPE EDGER SHALL BE 4" HIGH STEEL, 3/16" MIN. THICKNESS WITH A SMOOTH POWDER COATED FINISH, BLACK COLOR.
2. SUBMIT CUT SHEET OF LANDSCAPE EDGER TO PARKS DIVISION FOR APPROVAL.

**TREE PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Acer rubrum 'Armstrong'/ Red Maple	60' x 40'		M	B	2		Only plant in medians 6' or wider
Acer tataricum subsp. ginnala/ Amur Maple	25' x 25'		M	P			
Aesculus californica/ California Buckeye	15' x 30'	Y	VL	P		Y	
Agonis flexuosa/ Peppermint Tree	30' x 25'		L	P			
Agonis flexuosa 'Burgandy'/ Purple Peppermint Tree	30' x 25'		L	P			
Araucaria heterophylla/ Norfolk Island Pine	100' x 60'		M	P			Only plant in medians 12' or wider
Arbutus x 'Marina'/ Strawberry Tree	30' x 25'		L	B	2		
Arctostaphylos 'Dr. Hurd'/ Dr. Hurd Manzanita	10' x 10'	Y	L	P		Y	
Banksia integrifolia/ Coast banksia	30' x 20'		L	P			
Callistemon citrinus/ Lemon bottlebrush	25' x 25'		L	B	2	Y	

**NOTE:** REFER TO CITY RECOMMENDED TREE LIST AND ASSOCIATED MAP FOR PREFERRED TREE LOCATION REQUIREMENTS

**LEGEND:**

\* H=HIGH WATER USE, M=MEDIUM WATER USE, L=LOW WATER USE, VL=VERY LOW WATER USE

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\*\*\*REFER TO LD-1 FOR MEDIAN ZONES

**TREE PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Camellia japonica/ Japanese Camellia	9' x 9'		M	P			Recommended under power lines
Carpinus betulus 'Frans Fontaine'/ European Columnar Hornbeam	25' x 25'		M	B	2		
Cassia leptophylla/ Gold Medallion Tree	20' x 30'		L	B	2		
Ceanothus x 'Frosty Blue'/ Frosty Blue Wild Lilac	8' x 9'	Y	L	P		Y	
Ceanothus x 'Ray Hartmann'/ Ray Hartmann Wild Lilac	15' x 18'	Y	L	P		Y	
Cedrus deodara/ Deodar Cedar	80' x 40'		L	P			
Cotinus obovatus/ American Smoke Tree	25' x 20'		L	P			
Cupressus macrocarpa/ Monterey Cypress	45' x 40'	Y	M	P			
Eriobotrya deflexa 'Coppertone'/ Coppertone Loquat	20' x 20'		M	P		Y	
Fagus sylvatica/ Copper Beech	80' x 50'		M	P			

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**TREE PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Fraxinus americana 'Autumn Applause' / White Ash	80' x 50'		M	P			
Fraxinus angustifolia 'Raywood' / Raywood Ash	50' x 35'		M	P			
Geijera parviflora/ Australian willow	30' x 20'		M	B	2		
Ginkgo biloba 'Autumn Gold' / Ginkgo	40' x 30'		M	P			
Gleditsia triacanthos var. inermis / Thornless Honey Locust	55' x 40'		L	P			
Grevillea robusta / Silk Oak Tree	50' x 30'		L	P			
Heteromeles arbutifolia/ Toyon	25' x 20'	Y	L	P		Y	
Jacaranda mimosifolia/ Jacaranda	45' x 25'		M	P			
Lagerstroemia indica/ Crape myrtle	15' x 10'		L	P			Recommended under power lines
Leptospermum laevigatum / Australian Tea Tree	20' x 20'		L	P		Y	

**NOTE:** REFER TO CITY RECOMMENDED TREE LIST AND ASSOCIATED MAP FOR PREFERRED TREE LOCATION REQUIREMENTS

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**TREE PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Liriodendron tulipifera/ Tulip tree	70' x 40'		M	P			
Lophostemon confertus/ Brisbane Box	35' x 25'		M	B	2		
Lyonothamnus floribundus var. asplenifolius/ Catalina ironwood	30' x 15'	Y	L	P			
Magnolia x soulangeana/ Saucer Magnolia	25' x 25'		M	P			Recommended under power lines
Melaleuca linariifolia/ Flaxleaf Paperbark	25' x 25'		L	B	2		
Melaleuca quinquenervia/ Paperbark Tree	30' 20'		L	B	2		
Metrosideros excelsa/ New Zealand Christmas Tree	30' x 30'		L	P			
Morella californica/ Pacific Wax Myrtle	20' x 20'	Y	M	P			
Nyssa sylvatica/ Black Gum	40' x 20'		M	P			
Olea europaea 'Swan Hill'/ Fruitless European Olive	30' x 25'		VL	P			

**NOTE:** REFER TO CITY RECOMMENDED TREE LIST AND ASSOCIATED MAP FOR PREFERRED TREE LOCATION REQUIREMENTS

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**TREE PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Photinia glabra/ Red-Tip Photinia	8' x 8'		M	P			Recommended under power lines. Can be used as shrub
Pinus eidarica/ Afghan Pine	60' x 25'		L	P			
Pinus sabiniana/ Gray Pine	65' x 20'	Y	VL	P		Y	
Pistacia chinensis/ Chinese pistache	30' x 30'		L	B	2		
Pittosporum undulatum/ Victorian Box	35' x 35'		L	P			Recommended under power lines
Platanus x hispanica/ London Plane Tree	60' x 35'		M	B	2		Only plant in medians 12' or wider
Platanus racemosa/ California Sycamore	60' x 40'	Y	M	P		Y	
Podocarpus gracilior/ Fern Pine	40' x 15'		M	P			
Podocarpus henkelii/ Long Leafed Yellowwood	40' x 20'		M	P			
Podocarpus/ macrophyllus/ Shrubby Yew Pine	35' x 15'		M	P			

**NOTE:** REFER TO CITY RECOMMENDED TREE LIST AND ASSOCIATED MAP FOR PREFERRED TREE LOCATION REQUIREMENTS

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**TREE PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H. M. L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Prunus ilicifolia subsp. Lyonii/ Catalina cherry	30' x 25'	Y	L	P		Y	
Prunus x Incamp/ Okame Cherry	25' x 20'		L	P			Recommended under power lines
Prunus serrulate 'Kwanzan'/ Kwanzan Cherry	30' x 20'		L	P			Recommended under power lines
Pyrus kawakamii/ Everygreen Pear	25' x 25'		M	P			Recommended under power lines
Quercus agrifolia/ Coast Live Oak	45' x 45'	Y	VL	B	2	Y	Only plant in medians 6' or wider
Quercus douglasii/ Blue Oak	60' x 55'	Y	VL	B	2	Y	Only plant in medians 6' or wider
Quercus ilex/ Holly Oak	45' x 45'		L	P			
Quercus kelloggii/ California Black Oak	50' x 40'	Y	L	B	2	Y	Only plant in medians 6' or wider
Quercus lobata/ Valley Oak	60' x 50'	Y	L	B	2	Y	Only plant in medians 6' or wider
Quercus suber/ Cork Oak	70' x 70'		L	B	2		Only plant in medians 6' or wider

**NOTE:** REFER TO CITY RECOMMENDED TREE LIST AND ASSOCIATED MAP FOR PREFERRED TREE LOCATION REQUIREMENTS

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**TREE PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Quillaja saponaria/ Chilean soapbark	35' x 20'		L	P			
Rhaphiolepis 'Majestic Beauty'/ Majestic Beauty Indian Hawthorn	25' x 10'		L	P			
Sambucus nigra subsp. cerulea/ Blue Elderberry	20' x 15'	Y	L	P		Y	
Thuja plicata/ Western Red Cedar	50' x 25'	Y	M	P		Y	
Tristaniopsis laurina/ Swamp Myrtle	45' x 30'		M	B	2		
Ulmus parvifolia/ Chinese Elm	50' x 60'		L	B	2		
Zelkova serrata/ Sawtooth Zelkova	60' x 60'		M	P			

**NOTES:**

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**SHRUB PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Agave americana medio-picta 'Alba' / White-striped Century Plant	4' x 4'		VL	M	2		
Agave attenuata/ Fox Tail Agave	4-5' x 5'		L	M	1 or 2		Space at 4' O.C. max
Agave 'Blue Flame/ Blue Flame Agave	2.5' x 2'		L	M	1 or 2		
Agave 'Blue Glow' / Blue Glow Agave	1-2' x 2-3'		L	M	1 or 2		
Anigozanthos hybrids/ Kangaroo Paw	2-3' x 1-2'		L	P			
Arctostaphylos densiflora 'Howard McMinn' / Howard McMinn Manzanita	5-6' x 7'	Y	L	P		Y	
Arctostaphylos manzanita 'Dr. Hurd' / Dr. Hurd Manzanita	15' x 15'	Y	L	P		Y	
Callistemon 'Little John' / Dwarf Callistemon	3' x 3'		L	B	2	Y	
Carpenteria californica 'Elizabeth' / Elizabeth Bush Anemone	4-6' x 4-6'	Y	M	P		Y	
Ceanothis' Concha' / Concha Ceanothus	6-7' x 6-8'	Y	L	P		Y	

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**SHRUB PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H. M. L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Ceanothus 'Dark Star'/ Dark Star Ceanothus	5-6' x 8-10'	Y	L	P		Y	
Ceanothus thyrsiflorus 'Snow Flurry' / Snow Flurry Ceanothus	6-10' x 8-12'	Y	L	P		Y	
Cistus x purpureus/ Orchid Rockrose	4' x 4'		L	P		Y	
Cistus skanbergii/ Pink Rockrose	3' x 8'		L	P		Y	
Dasyliirion wheeleri/ Spoon Yucca	3-5' x 4-5'		VL	M	2		Space at 4' O.C. max
Dietes bicolor/ Fortnight Lily	2-3' x 2-3'		L	P			
Diplacus aurantiacus & hybrids/ Sticky monkey-flower	4' x 4'	Y	VL	P		Y	Hybrids range from 1'-4' H and W
Grevillea noellii/ Noell Grevillea	4' x 4-5'		L	P			
Hesperaloe parviflora/ Red Yucca	3-4' x 3-4'		L	M	1 or 2		Space at 4' O.C. max
Lavandula angustifolia/ English Lavender	1-2' x 1-2'		L	P		Y	

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PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H. M. L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Leucadendron Spp./ Conebush	3-10' x 3-8'		L	P			Height and width varies by cultivar
Mahonia pinnata/ California Grape Holly	4-5' x 4-5'	Y	L	P		Y	
Phlomis fruticosa/ Jerusalem Sage	4' x 4'		L	B	2		
Phormium spp./ New Zealand Flax	Varies		L	B	2		Species 3' or smaller are permitted in medians unless approved by Parks Division
Rhamnus californica & cultivars/ Coffeeberry	3-15' x 8'	Y	L	P		Y	H and W vary by cultivars
Rhamnus crocea/ Redberry	2-3' x 3-6'	Y	L	P		Y	
Ribes sanguineum ad cultivars/ Red flowering Currant	5-12' x 5-12'	Y	L	P		Y	
Ribes viburnifolium/ Evergreen Currant	3-6' x 12'	Y	L	P		Y	
Rosa gymnocarpa/ Wood Rose	3-6' x 6-9'	Y	M	P		Y	Space at 6'-0' O.C. max
Salvia Clevelandii 'Winnifred Gilman'/ Cleveland sage	3' x 3'	Y	L	P		Y	

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**SHRUB PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Salvia leucantha 'Santa Barbara' / Compact Mexican Bush Sage	2.5' x 3-4'		L	B	2	Y	
Symphoricarpos albus/ Snowberry	3-6' x 6'	Y	L	P		Y	
Yucca filamentosa 'Color Guard' / Variegated Adam's Needle	3' x 3'		L	M	1 or 2		

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**GRASS/GROUNDCOVER/PERENNIAL PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H. M. L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
<i>Achillea millefolium</i> & cultivars/ Yarrow	Varies	Y	L	P		Y	Space at 2' O.C.
<i>Allium unifolium</i> / Oneleaf Onion	1-2' x 1'	Y	L	P		Y	
<i>Bouteloua gracilis</i> 'Blonde Ambition'/ Blonde Ambition Blue Grama Grass	1-2' x 1-2'		L	P			
<i>Calamagrostis x acutiflora</i> 'Karl Foerster'/ Feather Reedgrass	2-3' x 2-3'		M	B	2		
<i>Calamagrostis</i> koelerioides/ Dense-pine Reedgrass	2-3' x 2'	Y	M	P			
<i>Calamagrostis nutkaensis</i> / Pacific Reedgrass	3-4' x 3-4'	Y	M	P			
<i>Calamagrostis rubescens</i> / Pine Reedgrass	2-3' x 2'	Y	M	P			
<i>Ceanothus gloriosus</i> 'Heart's Desire'/ Pt. Reyes Ceanothus	1' x 3-5'	Y	L	B	1 or 2	Y	Space at 3' O.C. in medians
<i>Ceanothus griseus</i> var. horizontalis 'Yankee Point'/ Yankee Point Ceanothus	2-3' x 8-10'	Y	L	B	2	Y	
<i>Chondropetalum tectorum</i> / Cape Rush	2-3' x 3-4'		L	P			

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**GRASS/GROUNDCOVER/PERENNIAL PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H. M. L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Cistus salviifolius/ Sageleaf Rockrose	2' x 6'		L	P		Y	
Coprosma x kirkii/ Creeping Mirror Plant	1-3' x 4-6'		L	P			
Correa 'Carmine Bells' / Red Australian Fuchsia	2-2.5' x 8'		L	P			
Deschampsia cespitosa ssp. Holciformis/ California Hairgrass	1-2' x 2'	Y	L	P			
Erigeron glaucus 'Wayne Roderick' / Beach Aster	1' X 1.5'	Y	L	P		Y	
Erigeron karvinskianus/ Mexican Daisy	1-1.5' X 3'	Y	L	P			
Eriogonum fasciculatum/ California Buckwheat	1-3' X 4'	Y	VL	P		Y	
Eriogonum grande var. rubescens/ San Miguel Island Buckwheat	1' x 1-1.5'	Y	L	P		Y	
Eriogonum latifolium/ Coast Buckwheat	1-2' x 2-3'	Y	L	P		Y	
Eriogonum nudum/ Nude Buckwheat	0.5-1' x 0.5'	Y	L	P		Y	

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**GRASS/GROUNDCOVER/PERENNIAL PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Eriogonum umbellatum 'Shasta Sulfur' / Sulfur Buckwheat	1.5' x 3'	Y	L	P		Y	
Eschscholzia californica/ California Poppy	1-2' x 1-2'	Y	VL	B	1 or 2	Y	
Festuca californica/ California Fescue	2-3' x 1-2'	Y	L	P			
Festuca glauca/ Blue Fescue	1' x 1'		L	P			
Helictotrichon sempervirens/ Blue Oat Grass	2-3' x 2-3'		L	P			
Iris douglasiana/ Douglas Iris	1-2' x 2-3'	Y	L	P		Y	
Juncus patens/ Common Rush	2' x 2'	Y	L	B	1 or 2		
Lantana montevidensis/ Trailing Lantana	2' x 3-6'		L	P			
Limonium perezii/ Sea Lavender	3' x 3'		L	P			
Lomandra longifolia 'Breeze' / Dwarf Mat Rush	2-3' x 2-3'		L	P			

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**GRASS/GROUNDCOVER/PERENNIAL PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H. M. L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Mahonia aquifolium var. repens/ Creeping Barberry	1' x 3'	Y	L	P		Y	
Melica californica/ California Melicgrass	2-4' x 1'	Y	L	P		Y	
Monardella villosa/ Coyote Mint	1-2' x 1- 1.5'	Y	VL	P		Y	
Muhlenbergia rigens/ Deer Grass	4' x 4'	Y	L	P			
Myoporum parvifolium 'Putah Creek'/ Creeping Myoporum	1-2' x8-10'		L	B	2		Space at 3'-4' O.C.
Nandina domestica 'Firepower'/ Heavenly Bamboo 'Firepower'	2' x 2'		L	P			
Penstemon heterophyllus 'Margarita Bop'/ Margarita Bop Penstemon	1-1.5' x 2-3'	Y	L	P		Y	
Salvia 'Bee's Bliss'/ Bee's Bliss Sage	1.5' x 4-6'	Y	L	P		Y	
Salvia gracios/ Gracias Sage	1' x 6-8'	Y	L	P		Y	
Salvia sonomensis/ Creeping Sage	1' x 3-4'	Y	L	P		Y	

**LEGEND**

\* H=HIGH WATER USE, M=MEDIUM WATER USE, L=LOW WATER USE, VL=VERY LOW WATER USE

\*\* P=PARK, M=MEDIAN, B=BOTH

\*\*\*REFER TO LD-1 FOR MEDIAN ZONES

**GRASS/GROUNDCOVER/PERENNIAL PLANTING GUIDE LIST**

PLANT NAME BOTANICAL NAME / COMMON NAME	AVERAGE MATURE SIZE (H X W)	CA NATIVE	WATER USE (H, M, L) *	APPLICATION (P, M, B) **	MEDIAN ZONE (1 or 2) ***	POLLINATOR SPECIES	COMMENTS
Salvia spathacea/ Hummingbird Sage	1-2' x 3-4'	Y	VL	B	1 or 2	Y	
Sisyrinchium bellum/ Blue Eyed Grass	1-2' x 1-2'	Y	VL	P		Y	
Solidago velutina ssp. California/ California Goldenrod	1.5-5' x 2-3'	Y	M	P		Y	
Zauschneria californica & hybrids/ California Fuchsia	1-4' x 3-4'	Y	L	P		Y	

**NOTE:**

PLANT SPECIES NOT SHOWN ON THESE LISTS REQUIRE APPROVAL BY THE CITY PRIOR TO SPECIFYING.

**LEGEND**

\* H=HIGH WATER USE, M=MEDIUM WATER USE, L=LOW WATER USE, VL=VERY LOW WATER USE

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PRODUCT	MANUFACTURER	MODEL	FINISH/ COLOR	MOUNTING
Waste and recycling receptacles	Wabash Valley	Elegance "E" Style	Trash: Black color. Round perforations. Dome top Recycling: Blue color. Round perforations. Dome top	Surface mount
Picnic tables	Wabash Valley	Rectangular 8' Picnic Table – Designer Series	Black color top, legs, and seat. Traditional slat pattern	Surface mount
Picnic tables (ADA)	Wabash Valley	8' ADA Side by Side Picnic Table – Designer Series	Black color top, legs, and seat. Traditional slat pattern	Surface mount
Benches	Wabash Valley	6 Foot Outdoor Bench with back & arms – Dewart Collection	Black color back and Legs. Slat pattern	Surface mount
Drinking fountain with bottle filler	Most Dependable Fountains	10155 SM (Pet fountain included)	Black and/ or silver color, dependent on project, confirm color with city prior to specifying	Surface mount
Wall drinking fountain	Most Dependable Fountains	10485 WMSS	Black and/ or silver color, dependent on project, confirm color with city prior to specifying	Wall mount
BBQ	Pilot Rock	Grill-20 inch Wide x 15 inch Deep x 10" High	Black	In-ground mount
Bike repair station	Saris Infrastructure	Deluxe Public Work Stand	Black color	Surface mount
Pathway light (Lighting materials shall be approved with Parks Division)	Hess	Light 800	Luminaire: 145 W, LED, 120V, Type T4, Mounting height: 25'-3", Pole height: 26'-0", Material: Aluminum, grey color	Foundation