

- REDUCE BENDS, FITTINGS, ETC. FOR A DISTANCE EQUAL TO 10X THE DIA. OF THE PIPE. SIMILAR ON BOTH SIDES OF **SENSOR**
- PRE-CAST CONCRETE VALVE BOX WITH BOLT DOWN COVER AND BOX EXTENSION IF REQUIRED. REFER TO SPECIFICATIONS.
- PIGTAIL EXPANSION LOOP (18" MIN. LOOP)
- FLOW SENSOR
- FINISH GRADE
- COMMUNICATION CABLE. RETURN TO CONTROLLER IN 1" GREY SCH. 40 PVC CONDUIT
- SCH. 80 PVC FLANGES TYP. (2) PLACE
- SCH. 80 PVC UNION DOWNSTREAM OF VALVE
- BRICK OR CINDER BLOCK TYP. (2) PLACES
- PLACE 3" DIA DRAIN ROCK AT BASE OF VALVE BOX PRIOR TO INSTALLATION.

NOTES:

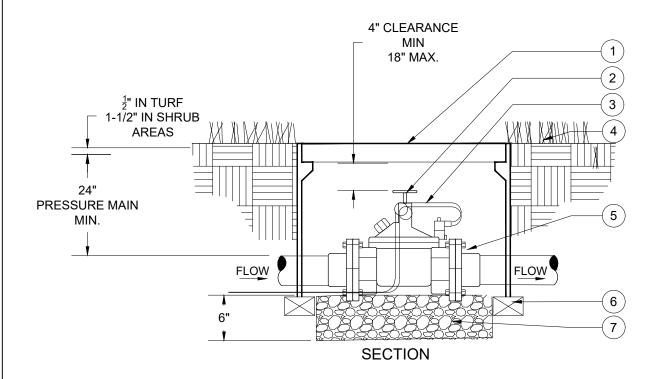
- **INSTALL FLOW SENSOR A MINIMUM** OF 12" FROM ANY STRUCTURES OR HARDSCAPE.
- 2. **INSTALL FLOW SENSOR IN PLANTING** BEDS WHEREVER POSSIBLE
- PLACE VALVE BOX AT RIGHT ANGLES 3. TO STRUCTURES OR HARDSCAPES.
- INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH FINISH GRADE OF ADJACENT HARDSCAPING.

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DWG. NO.

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L-100



- 1 CONCRETE UTILITY BOX (12" X 20") WITH BOLT DOWN CAST IRON LID. BOX EXTENSION IF REQUIRED.
- (2) MASTER CONTROL VALVE
- (3) CONTROL AND COMMON WIRES EXPANSION LOOP (18" MIN.)
- (4) FINISH GRADE
- (5) SCH 40 PVC FLANGES, (2) PLACES TYP.
- (6) BRICK, MINIMUM (2) PER BOX, TYP.
- (7) 3/4" DIAMETER DRAIN ROCK

NOTES

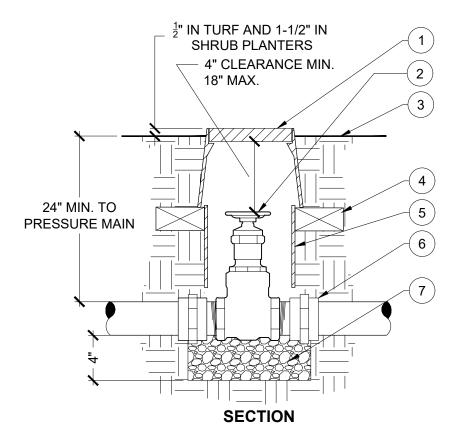
- INSTALL FLOW SENSOR A MINIMUM OF 12" FROM ANY STRUCTURES OR HARDSCAPE.
- 2. INSTALL FLOW SENSOR IN PLANTING BEDS WHEREVER POSSIBLE
- 3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPES.
- 4. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH FINISH GRADE OF ADJACENT HARDSCAPING.

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CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

SINGLE MASTER VALVE

APPR'D BY: DWG. NO. L-101



- (1) 10" ROUND CONCRETE VALVE BOX AND COVER LABELED WATER, W/ BOX EXTENSIONS AS REQUIRED.
- (2) GATE VALVE BRONZE OR CAST IRON HANDWHEEL. SEE PLANS AND SPECIFICATIONS FOR MANUFACTURER AND MODEL NUMBER.
- (3) FINISH GRADE
- (4) BRICK, TYPICAL. (2) PLACES.
- (5) 10" DIAMETER SCHEDULE 40 PVC.
- (6) SCHEDULE 80 PVC UNION, TYPICAL. (2) PLACES.
- $\frac{3}{4}$ " DIA. DRAINAGE ROCK

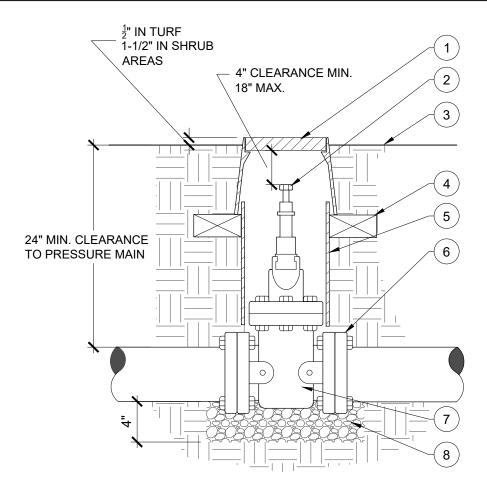
NOTES

- INSTALL GATE VALVES A MINIMUM OF 24" FROM STRUCTURES OR HARDSCAPE.
- 2. INSTALL GATE VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
- 3. DOMESTIC GATE VALVES SHALL BE LEAD FREE ONLY.
- 4. VALVE SIZE SHALL BE EQUAL WITH THE MAINLINE SIZE UNLESS LABELED OTHERWISE.

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CITY OF SACRAMENTO Department of Youth, Parks and Community Enrichment

IRRIGATION GATE VALVE 3" AND SMALLER



CALLOUTS

- 10" ROUND CONCRETE VALVE BOX AND COVER LABELED WATER, W/ BOX EXTENSIONS AS REQUIRED.
- 2 GATE VALVE W/ 2" OPERATING NUT SEE PLANS AND SPECIFICATIONS FOR MANUFACTURER AND MODEL NUMBER.
- (3) FINISH GRADE.
- (4) BRICK, TYPICAL. (2) PLACES.
- (5) 10" SCHEDULE 40 PVC.
- (6) SCHEDULE 40 PVC FLANGES, TYPICAL. (2) PLACES.
- 7 VALVE SIZE SHALL BE EQUAL WITH THE MAINLINE SIZE UNLESS LABELED OTHERWISE.
- (8) 3/4" DIA. DRAIN ROCK.

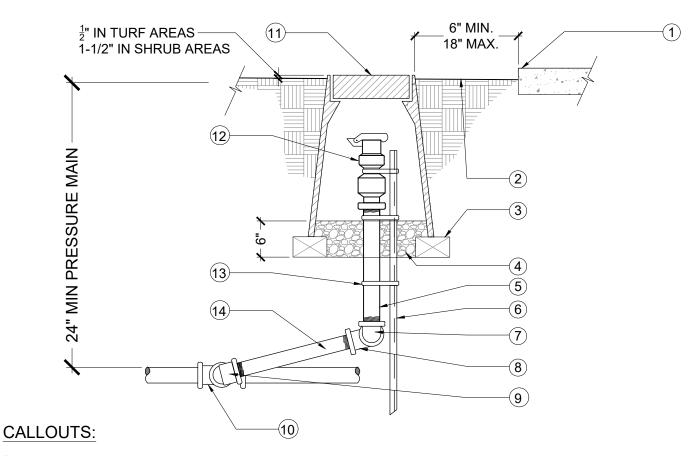
NOTES

- 1. INSTALL GATE VALVES A MINIMUM OF 24" FROM STRUCTURES OR HARDSCAPE.
- 2. INSTALL GATE VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
- 3. DOMESTIC GATE VALVES SHALL BE LEAD FREE ONLY.
- 4. VALVE SIZE SHALL BE EQUAL WITH THE MAINLINE SIZE UNLESS LABELED OTHERWISE.

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CITY OF SACRAMENTO

IRRIGATION GATE VALVE
4" AND LARGER



- (1) STRUCTURE OR PAVING
- (2) FINISH GRADE BEFORE PLANTING.
- 3 BRICK SUPPORT, TYPICAL (2) PLACES.
- (4) 3/4" DIA. DRAIN ROCK.
- (5) SCHEDULE 80 PVC THREADED NIPPLE, 12" LONG.
- 6 #5 REBAR ANGLE IRON, 36" LONG.
- (7) SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
- (8) SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
- 9 SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
- (10) SCHEDULE 80 PVC TEE (SLIPXSLIPXFIPT).
- (11) 10" ROUND PLASTIC VALVE BOX WITH LOCKING COVER.
- (12) QUICK COUPLING VALVE, SEE PLANS OR SPECS FOR MANUFACTURER AND MODEL NUMBER.
- (13) STAINLESS STEEL HOSE CLAMPS, MINIMUM OF (3) PLACES.
- (14) SCHEDULE 80 PVC THREADED NIPPLE, 12" LONG.

NOTES:

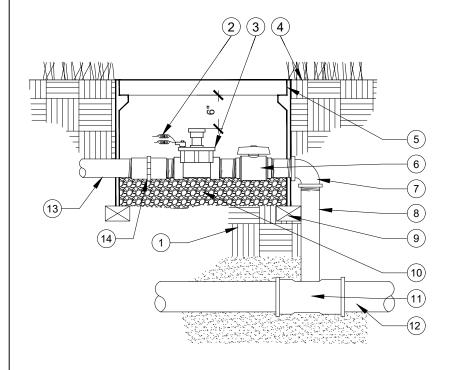
- INSTALL QUICK COUPLING VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
- 2. SEE PLAN & SPECIFICATIONS FOR MORE INFORMATION.
- 3. SIZE OF ASSEMBLY TO BE EQUAL TO THE FIPT OF THE QUICK COUPLER.

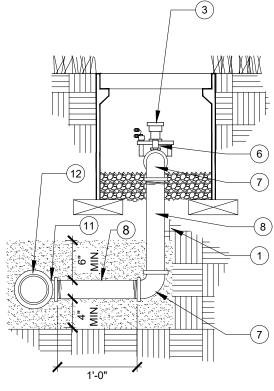
APPR'D BY:

DATE: APRIL 2020 DWG. NO. L-104

CITY OF SACRAMENTO

QUICK COUPLER





SECTION - FRONT VIEW

CALLOUTS:

- SOIL IN IRRIGATION MAIN AND LATERAL LINES SHALL BE COMPACTED IN 6" LIFT WITH EACH LIFT COMPACTED TO 85% R.D. IN LANDSCAPED AREAS AND 95% R.D. IN PAVING AREAS.
- VALVE CONTROL WIRE PROVIDE "3M DBY" SEAL PACKS AT ALL SPLICES & 36" OF EXCESS UF WIRE IN A 1" DIA. COIL.
- REMOTE CONTROL VALVE.
- FINISH GRADE.
- 13" X 20" JUMBO RECTANGULAR LOCKING VALVE BOX.
- FULL PORT ¹/₄ TURN PVC BALL VALVE.

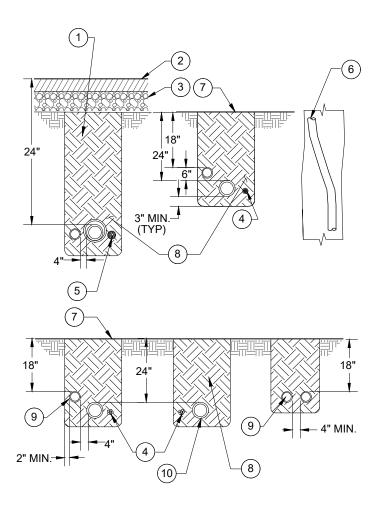
SECTION - SIDE VIEW

- SCH. 80 PVC 90 DEGREE ELL.
- (8) SCH. 80 PVC NIPPLE.
- BRICK TYP (4) PER BOX
- (10) 3" DIA. DRAIN ROCK
- (11) SCH. 80 PVC TEE.
- (12) PVC MAIN LINE.
- (13) IRRIGATION SUPPLY LINE.
- SCH. 40 UNION.

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CITY OF SACRAMENTO Department of Youth, Parks and Community Enrichment **REMOTE CONTROL VALVE**

DATE: APRIL 2020 **DWG. NO.** L-105



KEYNOTES

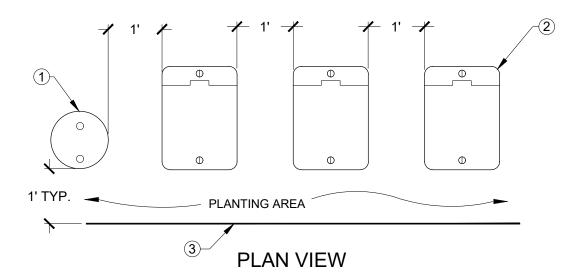
- 1) 6" COMPACTED LIFTS 95% R.D. IN PAVING AREAS
- (2) HARDSCAPE MATERIAL
- (3) BASE MATERIAL
- (4) IRRIGATION CONTROL WIRES
- (5) IRRIGATION CONTROL WIRES IN CONDUIT UNDER PAVED AREAS
- (6) SNAKE ALL PIPES IN TRENCHING
- 7 FINISH GRADE
- (8) EXCAVATED FILL COMPACTED IN 6" LIFTS AT 85% R.D. IN LANDSCAPE AREAS AND 95% R.D. IN PAVING AREAS
- (9) LATERAL PIPE (TYP)
- (10) IRRIGATION MAINLINE (TYP)

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TRENCH

APPR'D BY: 1 DWG. NO. L-106



- 1) 10" ROUND LOCKING VALVE BOX
- (2) 13" X 20" JUMBO RECTANGLE LOCKING VALVE BOX
- (3) EDGE OF STRUCTURE, HARDSCAPE, ETC.

NOTES

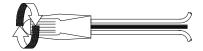
- 1. CENTER BOXES OVER VALVES.
- 2. INSTALL BOXES IN PLANTER BED WHEREVER POSSIBLE.
- 3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
- 4. AVOID EXCESSIVE COMPACTION SOIL AROUND BOXES TO PREVENT DAMAGING VALVE BOXES.

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STEP 1: STRIP WIRES 1/2" FROM ENDS.

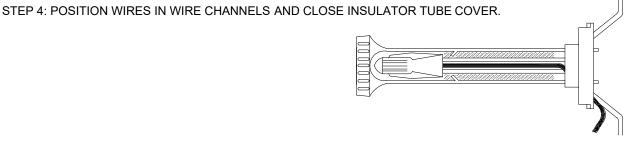


STEP 2: APPLY SCOTCHLOK SPRING CONNECTOR IN A CLOCKWISE DIRECTION.



STEP 3: INSERT SPLICE TO BOTTOM OF GEL-FILLED TUBE. CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.





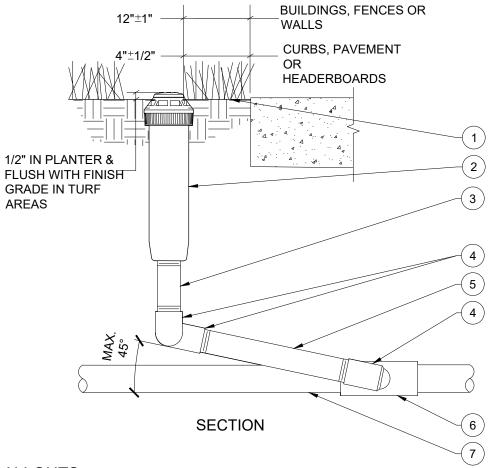
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WIRE CONNECTION

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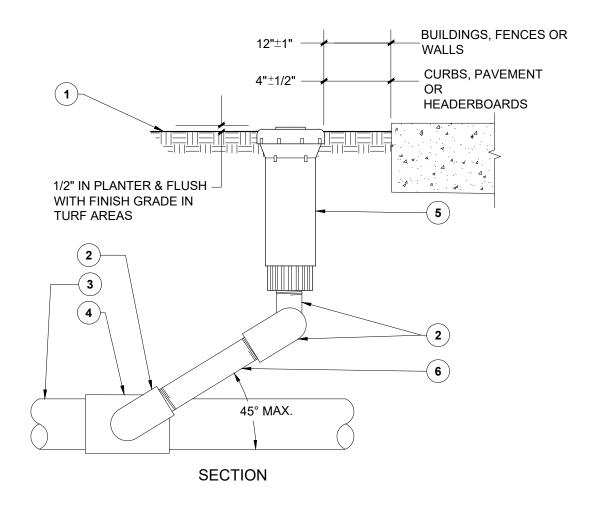


- (1) FINISH GRADE.
- (2) ROTOR POP-UP SPRINKLER.
- (3) PVC SCH. 40 NIPPLE (LENGTH AS REQUIRED).
- (4) MARLEX STREET ELL.
- (5) PVC SCH. 40 NIPPLE. (LENGTH AS REQUIRED).
- (6) PVC SCH. 40 TEE OR ELL.
- (7) PVC LATERAL PIPE.

NOTE

 SPRAY HEADS LOCATED ADJACENT TO ROADWAYS AND PARKING LOTS SHALL BE LOCATED 24" FROM EDGE OF HARDSCAPE.

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- (1) FINISH GRADE.
- (2) MARLEX STREET ELLS.
- (3) IRRIGATION LATERAL.
- (4) PVC SCHEDULE 40, 90 DEGREE ELL (SxT) OR TEE (SxSxT)
- (5) POP-UP SPRAY HEAD.
- (6) PVC SCHEDULE 40 NIPPLE. (LENGTH AS REQUIRED).

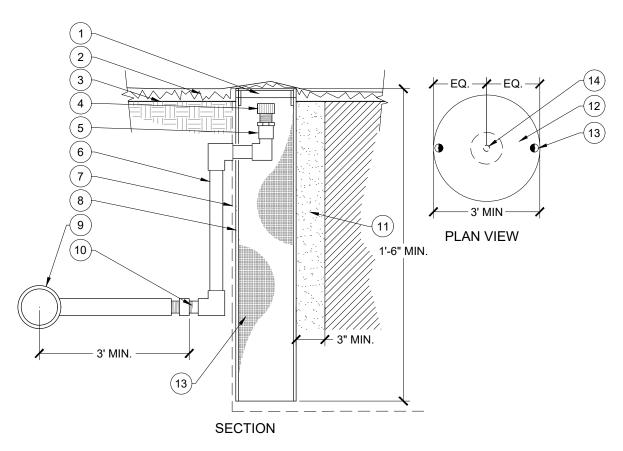
NOTE

 SPRAY HEADS LOCATED ADJACENT TO ROADWAYS AND PARKING LOTS SHALL BE LOCATED 24" FROM EDGE OF HARDSCAPE.

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SPRAY HEAD



- (1) GRATED CAP
- (2) BARK MULCH.
- (3) FINISH GRADE.
- (4) BUBBLER HEAD.
- (5) CHECK VALVE (T X T)
- 6 SWING JOINT
- (7) TREE PIT WALL BUBBLER SLEEVE
- (8) PVC SCHEDULE 40 TEE (SXSXT) OR 90 DEGREE ELL (SXT), CONNECTED TO IRRIGATION LATERAL.
- (9) IRRIGATION LATERAL LINE
- (10) 1/2" PVC SCHEDULE 40 MALE ADAPTER.
- (11) ROOTBALL.
- (12) WATER BASIN
- (13) TREE BUBBLER (TWO PER TREE)
- (14) TREE TRUNK

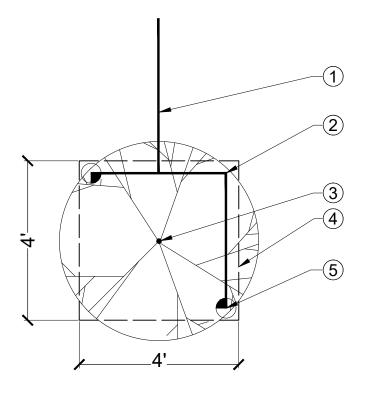
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TREE BUBBLER

APPR'D BY: // // // DATE: APRIL 2020

DWG. NO. L-111



KEYNOTES

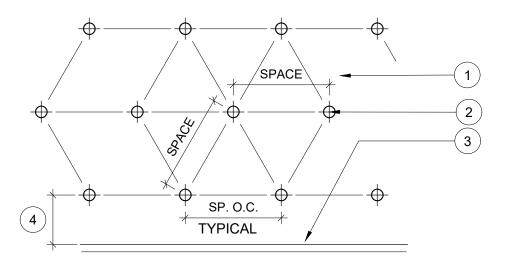
- (1) IRRIGATION LATERAL LINE CONNECTION
- (2) TYPICAL PIPE ROUTING (SUBJECT TO FIELD ADJUSTMENTS)
- (3) TREE PER TYPICAL TREE PLANTING DETAIL
- (4) PLANTING BOUNDARY NO PLANTS TO BE PLANTED WITHIN 2' OF TRUNK
- (5) LOW FLOW TECHNOLOGY NOZZLES PER SPRAY HEAD STANDARD DETAIL (PLACED ON OPPOSITE SIDES OF TREE)

NOTES

- 1. SCH 40 PVC FITTINGS TYP.
- 2. FOLLOW TREE PLANTING DETAIL FOR EXCAVATION, BACKFILL AND MULCHING.

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PLAN VIEW

CALLOUTS

- (1) GROUNDCOVER SPACING: SEE PLANTING LEGEND.
- (2) GROUNDCOVER CENTERS.
- 3) WALL, SIDEWALK OR EDGE OR GROUNDCOVER PLANTING.
- 4 HALF SPACE OF THE GROUNDCOVER SPACING OR AS SPECIFIED ON THE PLANS.

NOTES

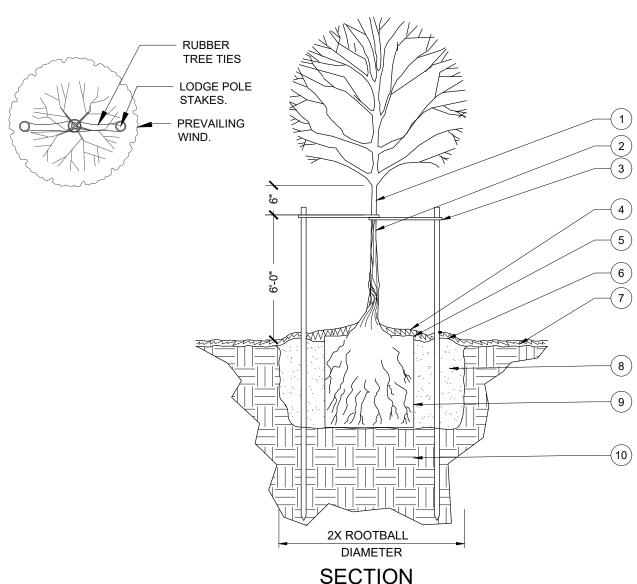
- RIP OR SCARIFY TOP 12" OF SUBGRADE PRIOR TO PLANTING.
- 2. ADD AMENDMENTS AND FERTILIZER PER SOILS REPORT.
- 3. ROTOTILL AMENDMENTS AND FERTILIZER INTO TOP 12" OF TOPSOIL OR PER SOILS REPORT.
- 4. PLANT GROUNDCOVER: TRIANGULAR SPACING.
- 5. BARK MULCH, MULCH SHALL NOT COVER ROOT CROWN

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GROUNDCOVER PLANTING APPRID BY:

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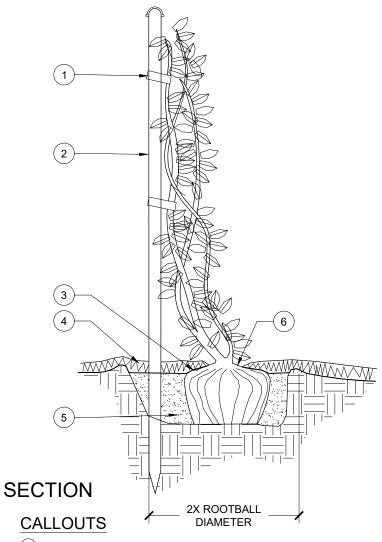


- TREE
- (2) REMOVE NURSERY STAKE.
- VINYL OR NON-ABRASIVE RUBBER TREE TIES: 2 PER STAKE, WRAP NO WIRE AROUND TRUNK OR LIMB.
- (4) BARK MULCH, NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. KEEP TRUNK BASE CLEAR OF BARK
- (5) TOP OF ROOT BALL SHALL BE A MINIMUM OF 1" ABOVE FINISHED GRADE.
- (6) 4" HIGH EARTH WATERING BERM IN PLANTER AREA ONLY. BERM SHALL BEGIN AT ROOT BALL PERIPHERY.
- (7) FINISH SURROUNDING GRADE.
- (8) LOOSENED NATIVE SOIL, PER STANDARD SPECIFICATIONS.
- ROOTS SHALL BE LOOSENED, SCORED, AND UNTANGLED PRIOR TO PLACING ROOT BALL IN HOLE. REV. DATE **DESCRIPTION**
- (10) UNDISTURBED OR COMPACTED SOIL.

APPR'D BY: L-202 DATE: APRIL 2020 DWG. NO.

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TREE PLANTING



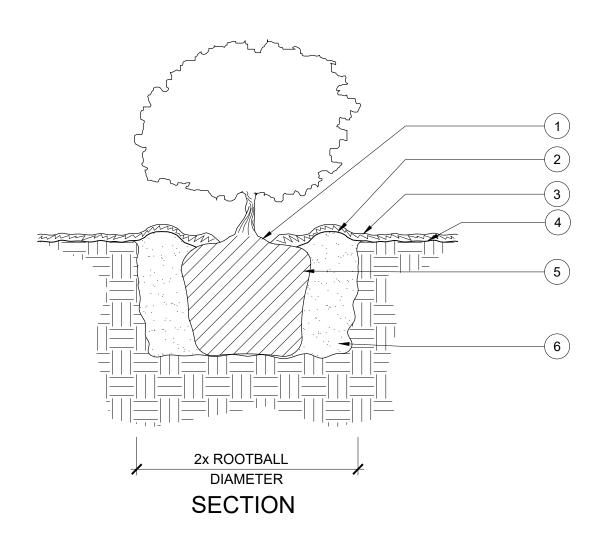
- 1) TIES OR FASTENERS FOR SUPPORT AS NEEDED.
- (2) ATTACH TO WALL OR TRELLIS.
- (3) SET ROOT CROWN 1" ABOVE BACKFILL.
- (4) BARK MULCH, KEEP ROOT CROWN CLEAR OF MULCH
- (5) SOIL AMENDMENTS, PER STANDARD SPECIFICATIONS.
- (6) ROOT CROWN, PULL BARK MULCH AWAY FROM ROOT CROWN

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VINE PLANTING

DATE: APRIL 2020 DWG. NO. L-202

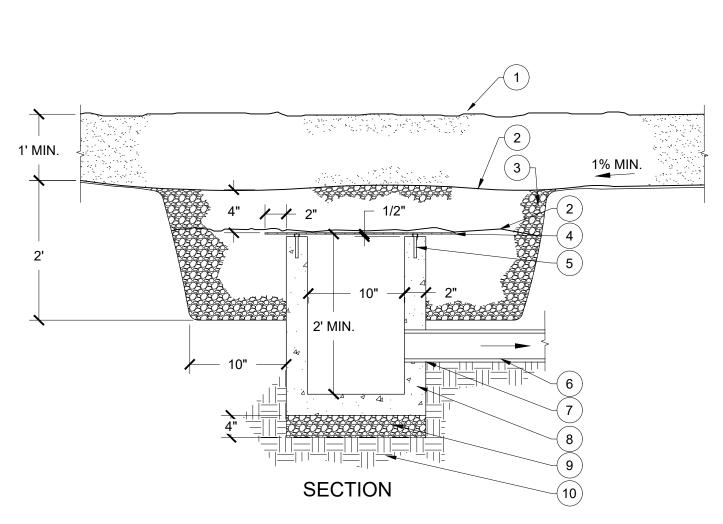


- (1) PLANT ROOT CROWN 1" ABOVE FINISH GRADE.
- (2) 2" HIGH EARTH MOUND. FINISH GRADE
- 3) BARK MULCH, MULCH SHALL NOT COVER ROOT CROWN.
- 4) FINISH GRADE.
- 5 SHRUB ROOTBALL.
- 6 BACKFILL MIX, PER STANDARD SPECIFICATIONS.

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SHRUB PLANTING

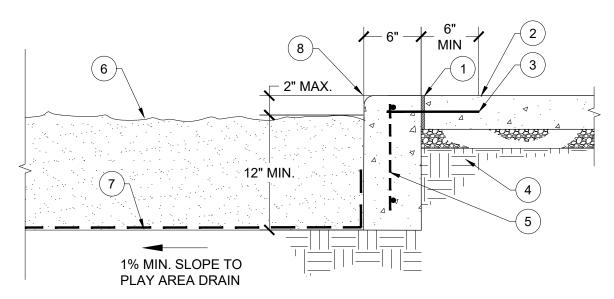


- 1 PLAY AREA SURFACE
- (2) GEOTEXTILE FABRIC PER SPECIFICATIONS
- (3) 3/4" DIA. DRAIN ROCK
- (4) 3/16" GALVANIZED STEEL COVER
- (5) 1/2" Ø X 4" GALV. STEEL BOLT (TYP. OF 4)
- (6) DRAIN PIPE PER PLANS AND SPECIFICATIONS
- (7) GROUT SHALL BE NON-SHRINK EPOXY GROUT
- (8) SQUARE CATCH BASIN MAY BE POURED IN PLACE OR PRECAST.
- (9) 3/4" DIA. DRAIN ROCK
- 10 COMPACTED SUBGRADE OR UNDISTURBED SOIL.

APPR'D BY:
DATE: APRIL 2020 DWG, NO. L-300

CITY OF SACRAMENTO

PLAY AREA CATCH BASIN



CALLOUTS

- (1) EXPANSION JOINT
- (2) CONCRETE PAVING
- (3) 12" SMOOTH DOWEL AT 24" O.C. W/ SLEEVE
- (4) COMPACTED SUBGRADE OR UNDISTURBED SOIL.
- (5) #4 REBAR 24" O.C. VERTICALLY AND TWO ROWS RUNNING HORIZONTAL ENTIRE DISTANCE OF CURB.
- 6 ENGINEERED WOOD FIBER
- (7) GEOTEXTILE FABRIC, TURN UP EDGES 6"
- (8) TOOLED EDGE 1" MIN. RADIUS.

NOTES:

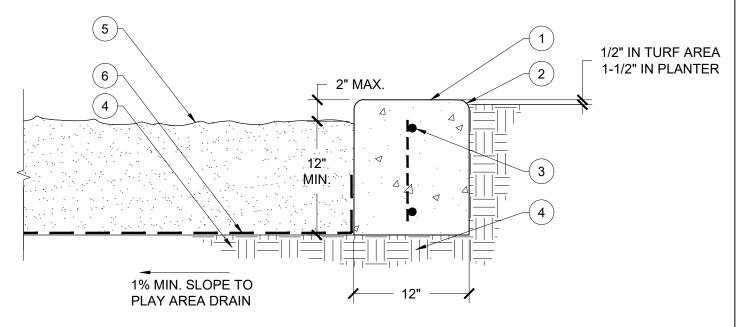
 PROVIDE EXPANSION JOINTS AT 20' ON CENTER.

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CITY OF SACRAMENTO

PLAY AREA CURB

APPR'D BY: DWL DWG. NO. L-301



CALLOUTS

- (1) 12" CONCRETE PLAY AREA CURB
- (2) TOOLED EDGE,1" MIN. RADIUS
- 3 #4 REBAR, TWO HORIZONTAL ROWS AND VERTICAL ROW 24" ON CENTER.
- (4) COMPACTED SUBGRADE OR UNDISTURBED SOIL.
- (5) ENGINEERED WOOD FIBER
- (6) GEOTEXTILE FABRIC, TURN UP EDGES 6"

NOTES

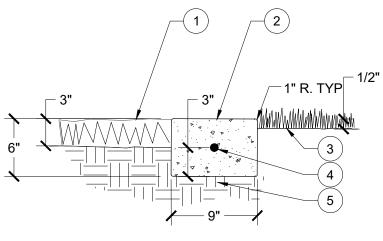
 PROVIDE EXPANSION JOINTS AT 20' ON CENTER.

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CITY OF SACRAMENTO

12" PLAY AREA CURB

APPR'D BY: // // // DATE: APRIL 2020 DWG. NO. L-302



CALLOUTS

- 1) BARK MULCH, REFER TO SPECIFICATIONS
- (2) CONCRETE MOW CURB
- (3) FINISH GRADE
- 4) #4 REBAR
- (5) COMPACTED SUBGRADE OR UNDISTURBED SOIL.

NOTES

1. EXPANSION JOINTS SHALL BE INSTALLED AT EVER 20' O.C. AND SCORE JOINTS AT 10' O.C.

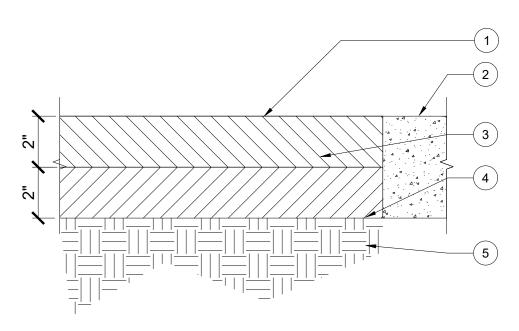
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9" CONCRETE MOW CURB

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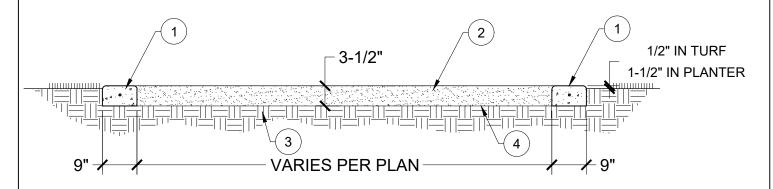


CALLOUTS

- 1 TOP OF INFIELD MIX
- (2) CONCRETE PAVING / CURBING. COMPACTED INFIELD MIX SHALL BE FLUSH WITH THE TOP OF PAVING.
- (3) INFIELD MIX SHALL BE INSTALLED AND COMPACTED IN TWO LIFTS AT 95% R.D.
- (4) PRE-EMERGENT WEED SUPPRESSION.
- (5) COMPACTED SUBGRADE OR UNDISTURBED SOIL

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CALLOUTS

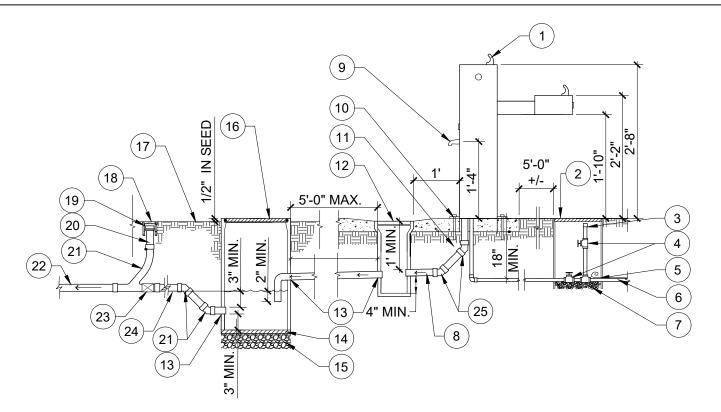
- (1) CONCRETE MOW CURB
- 2 DECOMPOSED GRANITE SHALL BE FLUSH WITH THE TOP OF MOW CURB AND COMPACTED 95% R.D. (2 LIFTS).
- (3) COMPACTED SUBGRADE AT 95%.
- (4) PRE-EMERGENT WEED CONTROL

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DECOMPOSED GRANITE TRAIL APPR'D BY:

APPR'D BY: DWG. NO. L-402



- 1) DRINKING FOUNTAIN, INSTALL PER MANUFACTURES SPECIFICATIONS
- (2) VALVE BOX WITH LOCKING LID, TYPICAL.
- 3 BLOWOFF VALVE (1" TEE, 1" THREADED GALV. RISER, 1" PVC CAP, HAND TIGHTEN TYPICAL
- 4 1" GATE VALVE (TYP.)
- 5 TRACER WIRE TAPE TO WATER LINE EVERY 5' O.C.
- 6 SCHEDULE 40 P.V.C. PIPE, CONNECT TO WATER METER AND BACKFLOW
- (7) 3/4" DIA. DRAIN ROCK
- (8) 2" ABS DRAIN LINE SLOPED AT 2% TO CLEANOUT
- (9) JUG FILLER WITH VACUUM BREAKER
- (10) 4-1/2" DIA. BOLTS SET IN CONCRETE
- 12"+\- AREA OF CONCRETE SURROUNDING GRATE SHALL BE SLOPED TO GRATE CLEANOUT: 12" INSIDE DIAMETER CONCRETE BOX STEEL GRATE
- (12) WATER STOP, TYP.
- (13) POUR IN PLACE CONCRETE BOTTOM
- $\frac{14}{4}$ 3" DIA. DRAIN ROCK
- $^{
 m 19}$ $^{
 m 7}$ CLEANOUT: 12" X 18" CONCRETE BOX WITH SOLID TRAFFIC RATED LID
- 19 FINISH GRADE BEFORE PLANTING
- $ootnotesize {rac{1}{2}}$ REINFORCED CONCRETE VALVE BOX AND LID
- 18 JIMMY CAP
- 9 ABS DRAIN LINE (TYP.)
- 20 LONG SWEEP "Y" FITTING
- 21) 45 DEGREE ABS ELBOWS TYP.
- ${ootnotesize egin{aligned} arphi \end{aligned}}$ WHEN TOP OF GRATE IS LOWER THAN THE NEXT UPSTREAM MANHOLE COVER, A
- $^{ extstyle{23}}$ BACKWATER VALVE IS REQUIRED AT THIS LOCATION.
- (24) 4" ABS DRAIN PIPE SLOPED AT MIN. 2% TO SANITARY SEWER STUB.

NOTE:

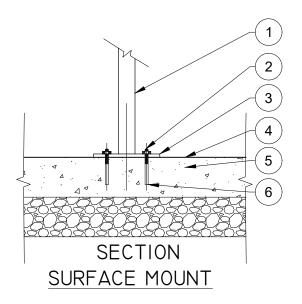
1. IF DRINKING FOUNTAIN HAS JUG FILLER SLOTTED CLEANOUT DRAIN MUST BE LOCATED ON JUG FILLER SIDE, SLOPED TO DRAIN.

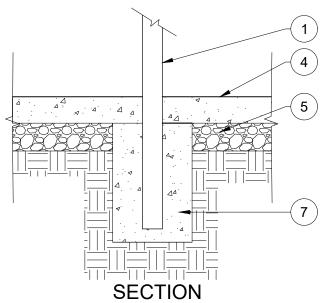
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CITY OF SACRAMENTO

DRINKING FOUNTAIN

APPR'D BY: DWG. NO. L-500





IN-GROUND MOUNT

CALLOUTS

- (1) SITE FURNISHING POST CLEAN AND FREE OF CONCRETE SPLATTERS. INSTALL PER MANUFACTURES SPECIFICATIONS
- TACK WELD AND SECURE NUT.
- 3 BASE PLATE PER MANUFACTURES SPECIFICATIONS.
 4 FINISH GRADE
 5 CONCRETE PAVING
 6 CONCRETE ANCHOR BOLT

- CONCRETE FOOTING PER MANUFACTURE'S SPECIFICATIONS

DATE: API	RIL 2020	DWG. NO.	L-501
APPR'D BY	r: OC	Dalin	_
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CITY OF SACRAMENTO

SURFACE & **INGROUND MOUNT**

Department of Youth, Parks and Community Enrichment