

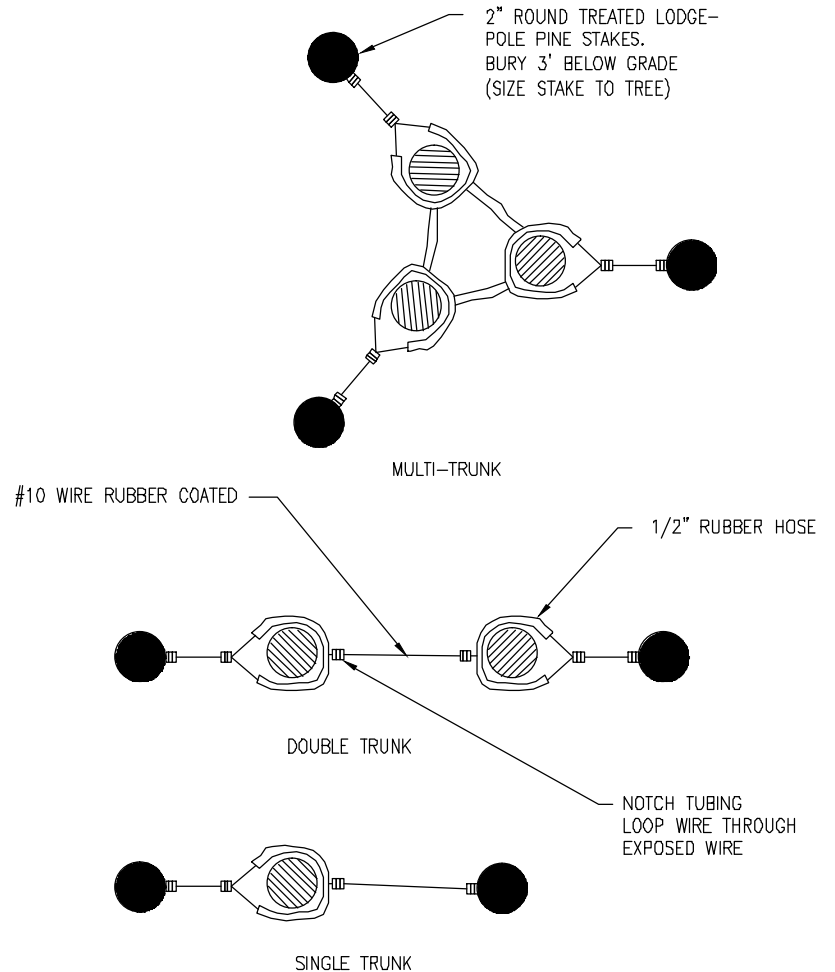
NOTES:

- ① SEAL BETWEEN POT AND PIPING PRIOR TO WATERPROOFING APPLICATION, THEN THOROUGHLY APPLY WATERPROOFING AROUND PIPES TO PROVIDE PRIMARY SEAL.
- ② SET POT IN URETHANE SEALANT/CAULT (COMPLETE RING ROUND PIPING TO PROVIDE A SECONDARY SEAL)

- \* ALL POTS TO BE GROUPED ON SEPARATE VALVE(S) UNLESS NOTED
- \* COORDINATE DRAINAGE WELL AND SLEEVING WITH CONCRETE CONTRACTOR
- \* LOCATE POTS ACCORDING TO LAYOUT ON PLAN
- \* SHIM POTS LEVEL AS NEEDED WATERPROOF INSIDE OF POT
- \* CRACKED OR CHIPPED POTS ARE NOT ACCEPTABLE
- \* WATERPROOFING TO BE PACIFIC POLYMERS ELASTO-DECK BT OR OTHER EQUIVALENT ELASTOMETRIC MATERIAL. CEMENTITIOUS WATERPROOFING IS NOT ACCEPTABLE.
- \* EXTEND PIPE 1/4" INSIDE THE POT

**PLANTER POT PLANTING DETAIL  
 (AT GRADE POT W/DRAINAGE WELL)**

NOTE  
 ALL MULTI-TRUNKED TREES  
 TO HAVE ALL MAJOR  
 LEADERS STAKED



**TREE GUYING DETAIL**

**NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SHALL ONLY USE MATERIALS FROM THE LATEST EDITION OF THE CITY OF GOODYEAR APPROVED MATERIALS LIST FOR PARKS AND RIGHT OF WAYS.
2. REMOVE SUCKERS AND POORLY ATTACHED LOWER BRANCHES AS DIRECTED BY CITY OF GOODYEAR REPRESENTATIVE.
3. TREE SHALL HAVE A SINGLE, RELATIVELY STRAIGHT CENTRAL LEADER AND TAPERED TRUNK FREE OF CODOMINANT STEMS.
4. TREES WITH CALIPER EQUAL TO OR LESS THAN 4" WILL BE MEASURED AT 6" ABOVE THE SOIL LINE.
5. TREE SHALL HAVE TWO (2) STAKES AT 9 O'CLOCK AND 3 O'CLOCK POSITIONS. STAKES SHALL BE SET WITH THE PREVAILING WIND.
6. CONTRACTOR SHALL REMOVE TREE STAKES TWELVE (12) MONTHS FROM AUTHORIZED MAINTENANCE PERIOD START DATE, ADJUST TREE TIES TO ACCOMODATE TREE GROWTH AND PRUNE TREE AS DIRECTED BY CITY OF GOODYEAR REPRESENTATIVE.
7. CONTRACTOR SHALL REMOVE NURSERY STAKES IMMEDIATELY AFTER PLANTING.

2-1/2" I.D. RUBBER HOSE LOOP WITH 12 GA. DOUBLE STRAND GALVANIZED AND ANNEALED WIRE. MAINTAIN 4" I.D. MINIMUM LOOP AROUND TREE. WRAP WIRE AROUND TREE STAKE, AND STAPLE. LOCATE TIE ABOVE FIRST BRANCH.

2" DIA. LODGEPOLE PINE STAKES. STAKES SHALL BE 10' VERTICAL. LOCATE 12" OUTSIDE ROOTBALL. (TYP. OF 2) TREE TRUNK SHALL BE CAPABLE OF MOVEMENT IN ALL DIRECTIONS. TREE STAKE SHALL NOT PROTRUDE INTO CANOPY (CUT STAKE AS DIRECTED BY CITY OF GOODYEAR REPRESENTATIVE)

THE STANDARD HEIGHT TO LOWEST SCAFFOLD LIMB ON THE TRUNK SHALL BE 36" MIN.

4" DEEP WATERING BASIN SHALL BE GENTLE AND UNIFORM THROUGHOUT, WITHOUT ANY OBTRUSIVE EDGES. BOTTOM OF BASIN TO BE 48" DIAMETER WITH 6:1 TAPER TO GRADE. SET TOP OF TREE ROOT BALL AT SOIL SURFACE.

FINISHED GRADE: 2" DEEP DECOMPOSED GRANITE PER LANDSCAPE SCHEDULE. MAINTAIN 4" CLEAR ZONE AROUND TRUNK

PLANT TABLET: LOCATION OF PLANT TABLETS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS (SEE NOTE 1)

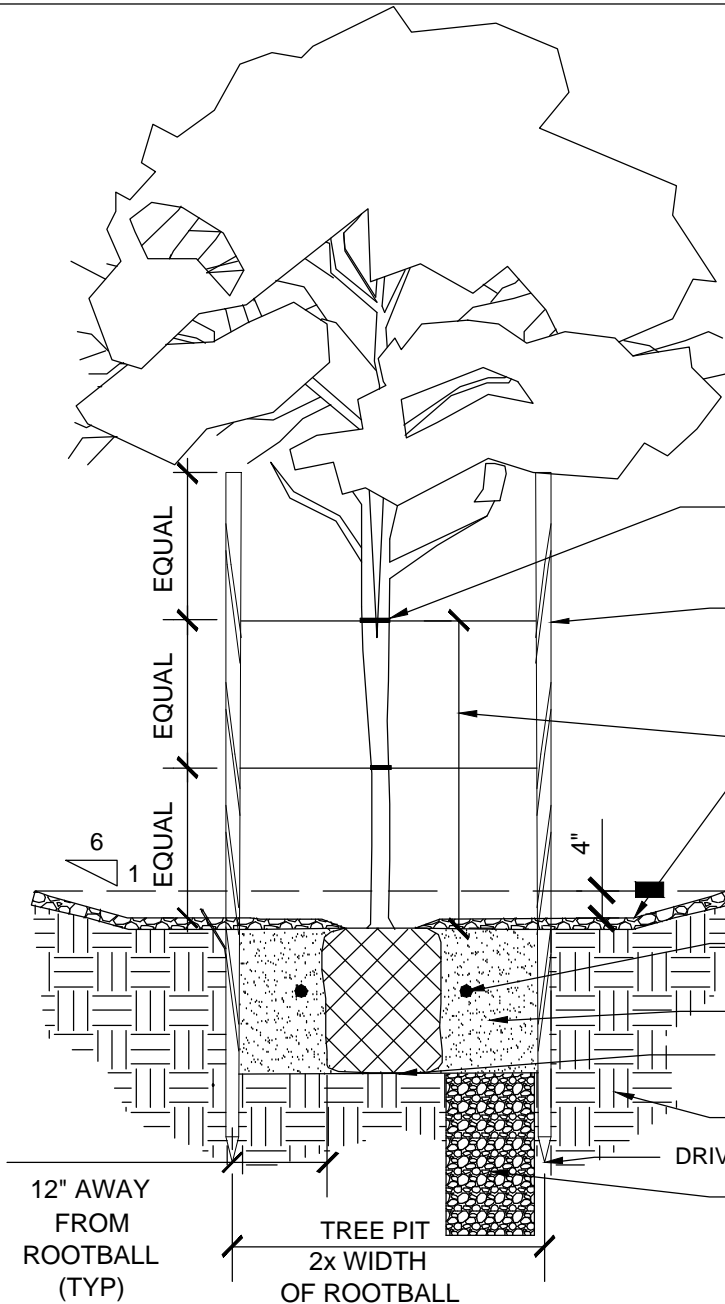
BACKFILL MIX (SEE NOTE 1)

SET ROOTBALL ON NATIVE UNDISTURBED SOIL. SCARIFY SIDES AND BOTTOM OF PLANT PIT. SCARIFY/SHAVE A MAXIMUM OF 2" OFF THE ROOTBALL.

UNDISTURBED NATIVE SOIL OR SUBGRADE

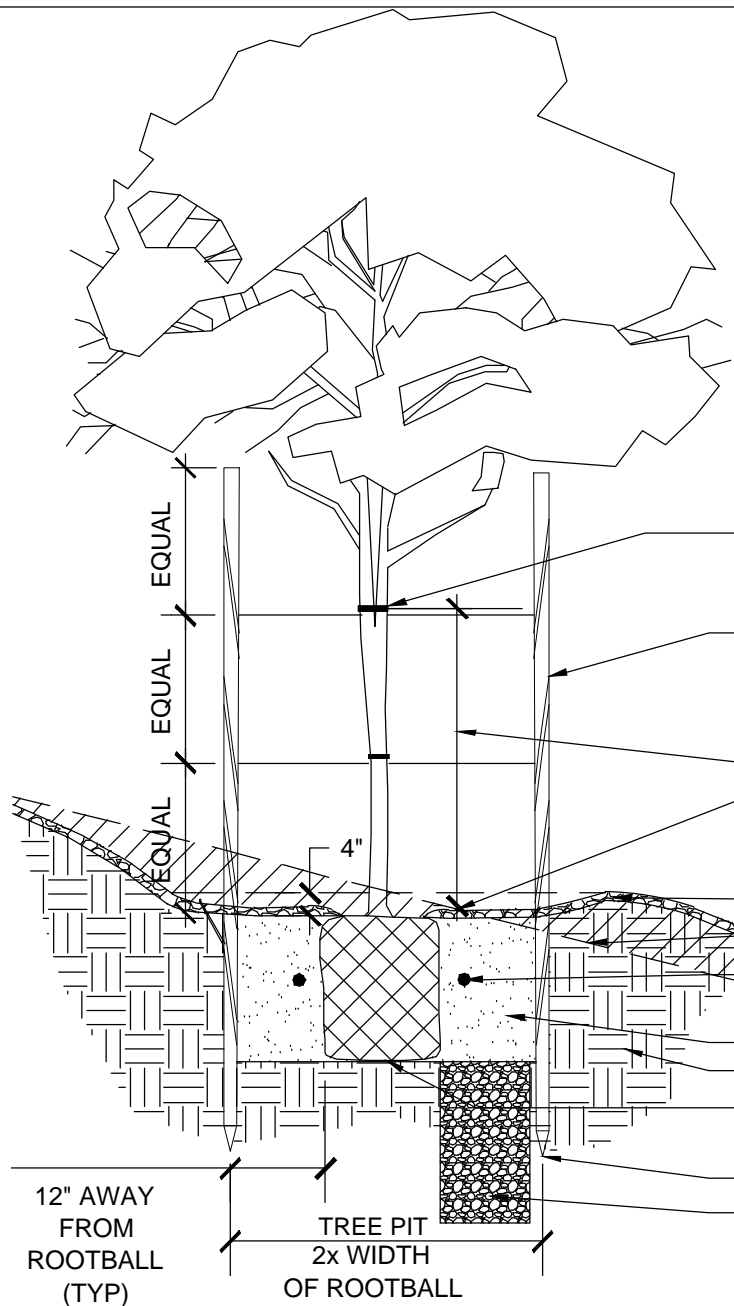
DRIVE STAKES 12" MIN. INTO UNDISTURBED SOIL (TYP.) OR SUBGRADE

IF PLANT PIT DOES NOT DRAIN THEN DRILL ONE (1) 12" DIAMETER X 24" DEEP HOLE. BELOW EXCAVATED PIT, RE-TEST PERCOLATION PER SPECIFICATIONS, CERTIFY PERCOLATION TEST AND FILL HOLE WITH PEA GRAVEL. COORDINATE LOCATION WITH TREE STAKES

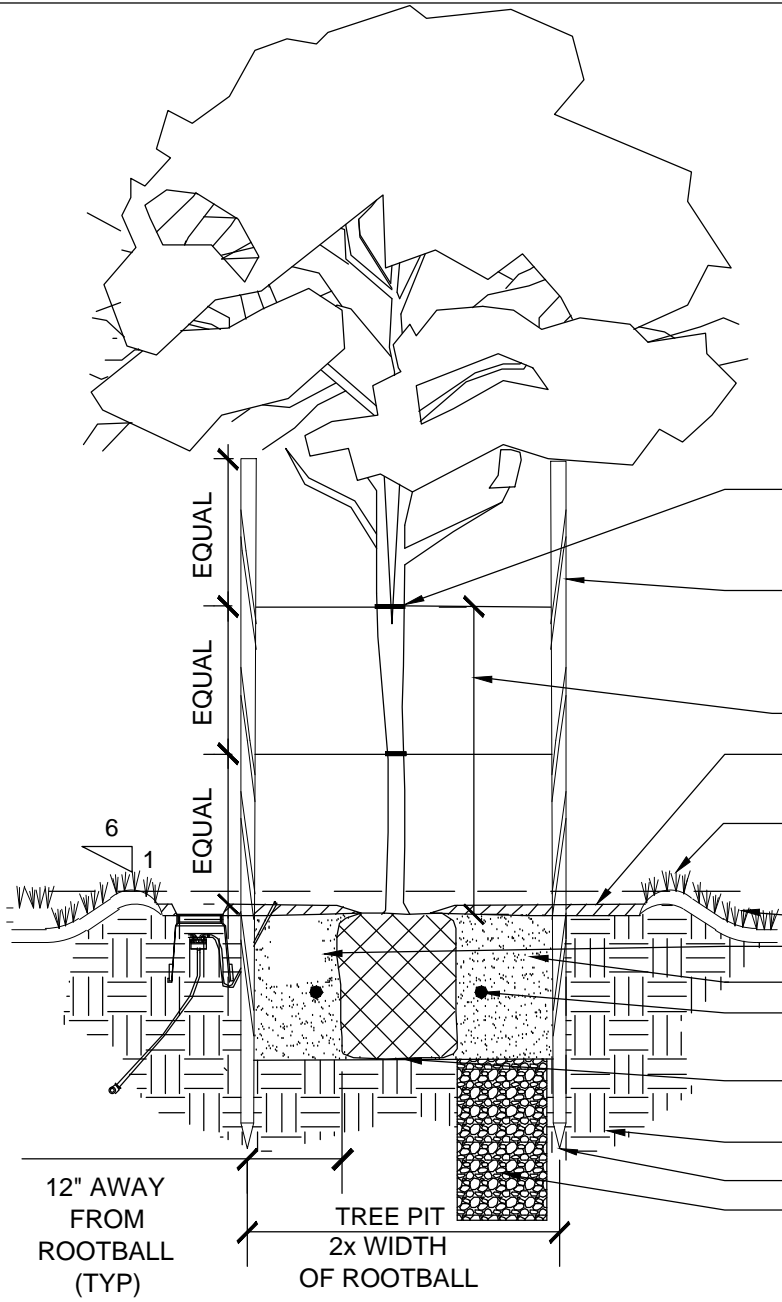


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2. REMOVE SUCKERS AND POORLY ATTACHED LOWER BRANCHES AS DIRECTED BY CITY OF GOODYEAR REPRESENTATIVE.
3. TREE SHALL HAVE A SINGLE, RELATIVELY STRAIGHT CENTRAL LEADER AND TAPERED TRUNK FREE OF CODOMINANT STEMS.
4. TREES WITH CALIPER EQUAL TO OR LESS THAN 4" WILL BE MEASURED AT 6" ABOVE THE SOIL LINE.
5. TREE SHALL HAVE THREE (3) STAKES AT 2 O'CLOCK, 6 O'CLOCK, AND 10 O'CLOCK POSITIONS.
6. CONTRACTOR SHALL REMOVE TREE STAKES TWELVE (12) MONTHS FROM AUTHORIZED MAINTENANCE PERIOD START DATE, ADJUST TREE TIES TO ACCOMODATE TREE GROWTH AND PRUNE TREE AS DIRECTED BY CITY OF GOODYEAR REPRESENTATIVE.
7. CONTRACTOR SHALL REMOVE NURSERY STAKES IMMEDIATELY AFTER PLANTING.



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- 2" DIA. LODGEPOLE PINE STAKES. STAKES SHALL BE 10' VERTICAL. LOCATE 12" OUTSIDE ROOTBALL. (TYP. OF 2) TREE TRUNK SHALL BE CAPABLE OF MOVEMENT IN ALL DIRECTIONS. TREE STAKE SHALL NOT PROTRUDE INTO CANOPY (CUT STAKE AS DIRECTED BY CITY OF GOODYEAR REPRESENTATIVE)
- THE STANDARD HEIGHT TO LOWEST SCAFFOLD LIMB ON THE TRUNK SHALL BE 36" MIN.
- 4" DEEP WATERING BASIN SHALL BE GENTLE AND UNIFORM THROUGHOUT, WITHOUT ANY OBTRUSIVE EDGES. BASIN TO BE 6' DIAMETER. SET TOP OF TREE ROOT BALL AT SOIL SURFACE.
- GENTLE SLOPE TREE WELL
- 6:1 MAX GRADED SLOPE (CUT SOIL ON UP-SLOPE AND PLACE ON DOWN-SLOPE)
- PLANT TABLET: LOCATION OF PLANT TABLETS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS (SEE NOTE 1)
- BACKFILL MIX (SEE NOTE 1)
- UNDISTURBED NATIVE SOIL OR SUBGRADE
- SET ROOTBALL ON NATIVE UNDISTURBED SOIL. SCARIFY SIDES AND BOTTOM OF PLANT PIT. SCARIFY/SHAVE A MXIMUM OF 2" OFF THE ROOTBALL.
- DRIVE STAKES 12" MIN. INTO UNDISTURBED SOIL OR SUBGRADE (TYP.)
- IF PLANT PIT DOES NOT DRAIN THEN DRILL ONE (1) 12" DIAMETER X 24" DEEP HOLE. BELOW EXCAVATED PIT, RE-TEST PERCOLATION PER SPECIFICATIONS, CERTIFY PERCOLATION TEST AND FILL HOLE WITH PEA GRAVEL. COORDINATE LOCATION WITH TREE STAKES



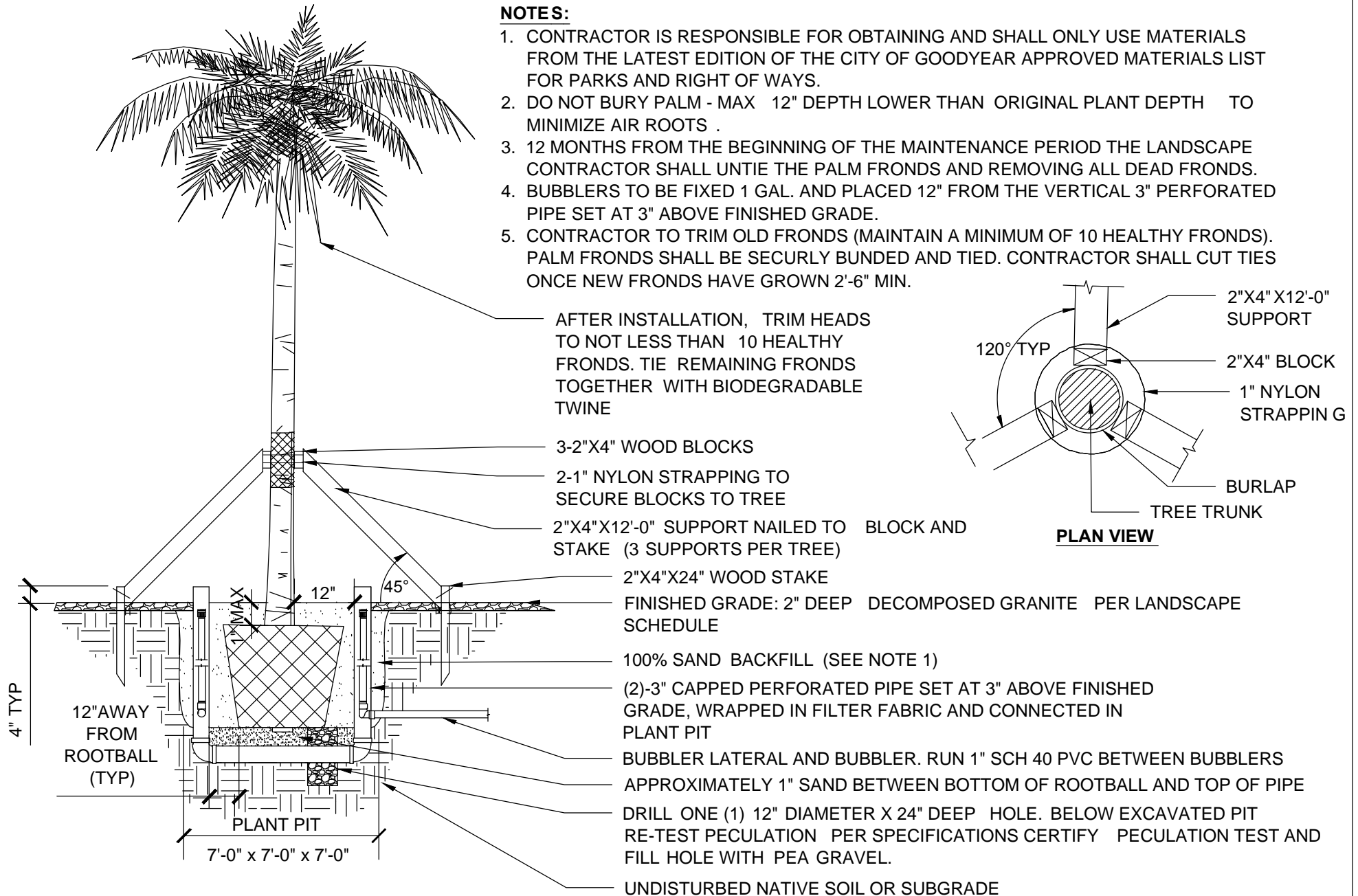
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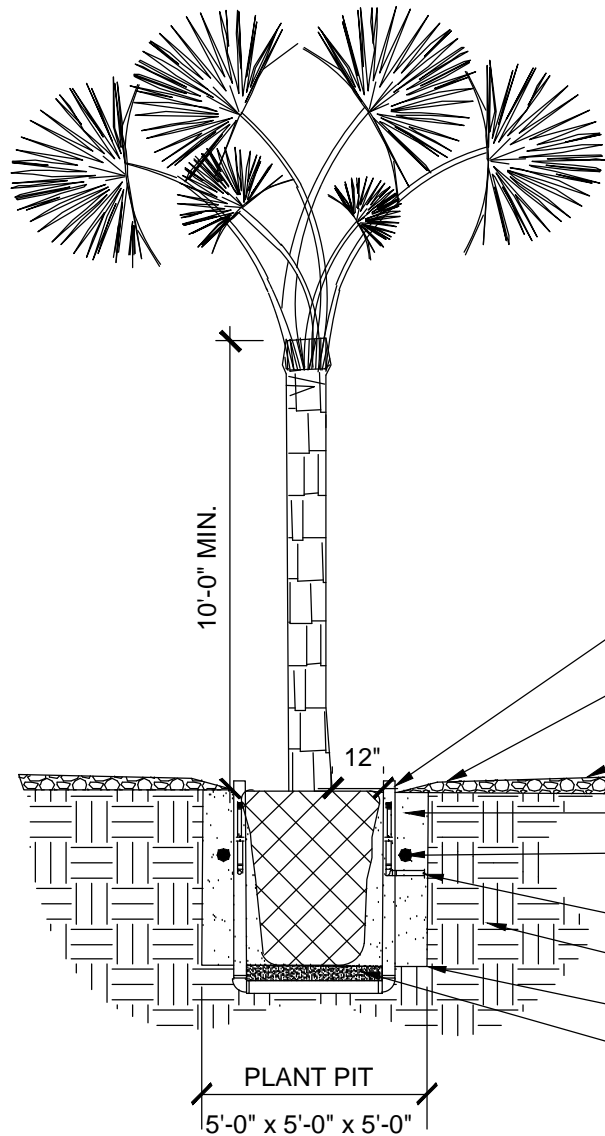
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3. TREE SHALL HAVE A SINGLE, RELATIVELY STRAIGHT CENTRAL LEADER AND TAPERED TRUNK FREE OF CODOMINANT STEMS.
4. TREES WITH CALIPER EQUAL TO OR LESS THAN 4" WILL BE MEASURED AT 6" ABOVE THE SOIL LINE.
5. TREE SHALL HAVE TWO (2) STAKES AT 9 O'CLOCK AND 3 O'CLOCK POSITIONS.
6. CONTRACTOR SHALL REMOVE TREE STAKES TWELVE (12) MONTHS FROM AUTHORIZED MAINTENANCE PERIOD START DATE, ADJUST TREE TIES TO ACCOMODATE TREE GROWTH AND PRUNE TREE AS DIRECTED BY CITY OF GOODYEAR REPRESENTATIVE.
7. CONTRACTOR SHALL REMOVE NURSERY STAKES IMMEDIATELY AFTER PLANTING.

- 2-1/2" I.D. RUBBER HOSE LOOP WITH 12 GA. DOUBLE STRAND GALVANIZED AND ANNEALED WIRE. MAINTAIN 4" I.D. MINIMUM LOOP AROUND TREE. WRAP WIRE AROUND TREE STAKE, AND STAPLE. LOCATE TIE ABOVE FIRST BRANCH.
- 2" DIA. LODGEPOLE PINE STAKES. STAKES SHALL BE 10' VERTICAL. LOCATE 12" OUTSIDE ROOTBALL. (TYP. OF 2) TREE TRUNK SHALL BE CAPABLE OF MOVEMENT IN ALL DIRECTIONS. TREE STAKE SHALL NOT PROTRUDE INTO CANOPY (CUT STAKE AS DIRECTED BY CITY OF GOODYEAR REPRESENTATIVE)
- THE STANDARD HEIGHT TO LOWEST SCAFFOLD LIMB ON THE TRUNK SHALL BE 36" MIN.
- 3" THICK WOOD FIBAR. COLOR AND SIZE TO BE APPROVED BY CITY PRIOR TO CONSTRUCTION. MAINTAIN 3" CLEAR ZONE AROUND TREE TRUNK
- 4" DEEP WATERING BASIN SHALL BE GENTLE AND UNIFORM THROUGHOUT, WITHOUT ANY OBTRUSIVE EDGES. BASIN TO BE 6' DIAMETER. SET TOP OF TREE ROOT BALL AT SOIL SURFACE.
- FINISHED GRADE: TURF
- LOCATE IRRIGATION EMITTER PER DETAIL G-3620-18
- BACKFILL MIX (SEE NOTE 1)
- PLANT TABLET: LOCATION OF PLANT TABLETS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS (SEE NOTE 1)
- SET ROOTBALL ON NATIVE UNDISTURBED SOIL. SCARIFY SIDES AND BOTTOM OF PLANT PIT. SCARIFY/SHAVE A MAXIMUM OF 2" OFF THE ROOTBALL.
- UNDISTURBED NATIVE SOIL OR SUBGRADE
- DRIVE STAKES 12" MIN. INTO UNDISTURBED SOIL (TYP.) OR SUBGRADE
- IF PLANT PIT DOES NOT DRAIN THEN DRILL ONE (1) 12" DIAMETER X 24" DEEP HOLE. BELOW EXCAVATED PIT RE-TEST PERCOLATION PER SPECIFICATIONS CERTIFY PERCOLATION TEST AND FILL HOLE WITH PEA GRAVEL. COORDINATE LOCATION WITH TREE STAKES

**NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SHALL ONLY USE MATERIALS FROM THE LATEST EDITION OF THE CITY OF GOODYEAR APPROVED MATERIALS LIST FOR PARKS AND RIGHT OF WAYS.
2. DO NOT BURY PALM - MAX 12" DEPTH LOWER THAN ORIGINAL PLANT DEPTH TO MINIMIZE AIR ROOTS .
3. 12 MONTHS FROM THE BEGINNING OF THE MAINTENANCE PERIOD THE LANDSCAPE CONTRACTOR SHALL UNTIE THE PALM FRONDS AND REMOVING ALL DEAD FRONDS.
4. BUBBLERS TO BE FIXED 1 GAL. AND PLACED 12" FROM THE VERTICAL 3" PERFORATED PIPE SET AT 3" ABOVE FINISHED GRADE.
5. CONTRACTOR TO TRIM OLD FRONDS (MAINTAIN A MINIMUM OF 10 HEALTHY FRONDS). PALM FRONDS SHALL BE SECURLY BUNDED AND TIED. CONTRACTOR SHALL CUT TIES ONCE NEW FRONDS HAVE GROWN 2'-6" MIN.





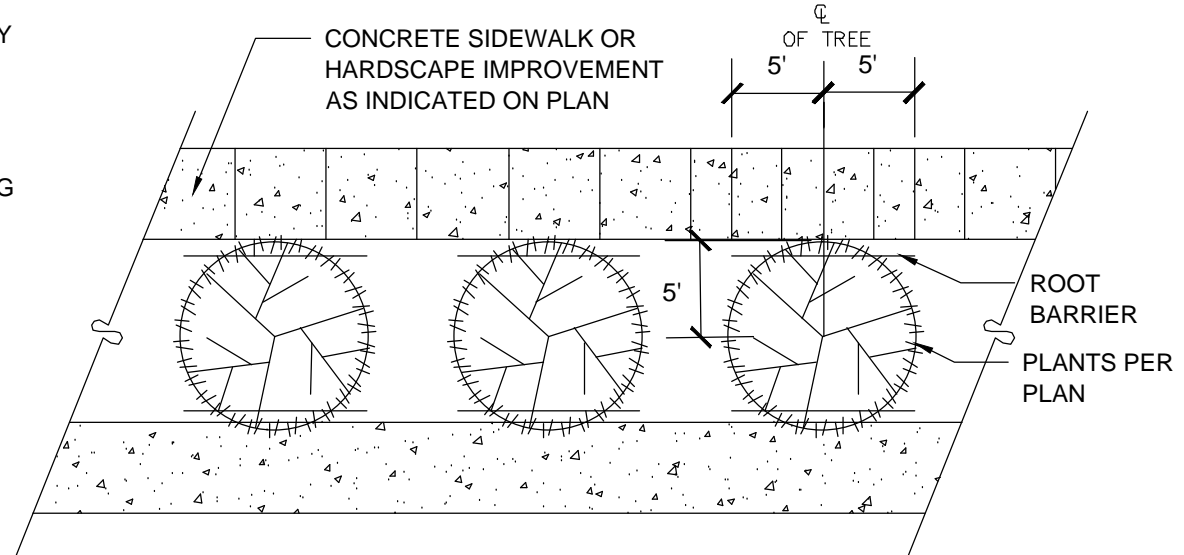
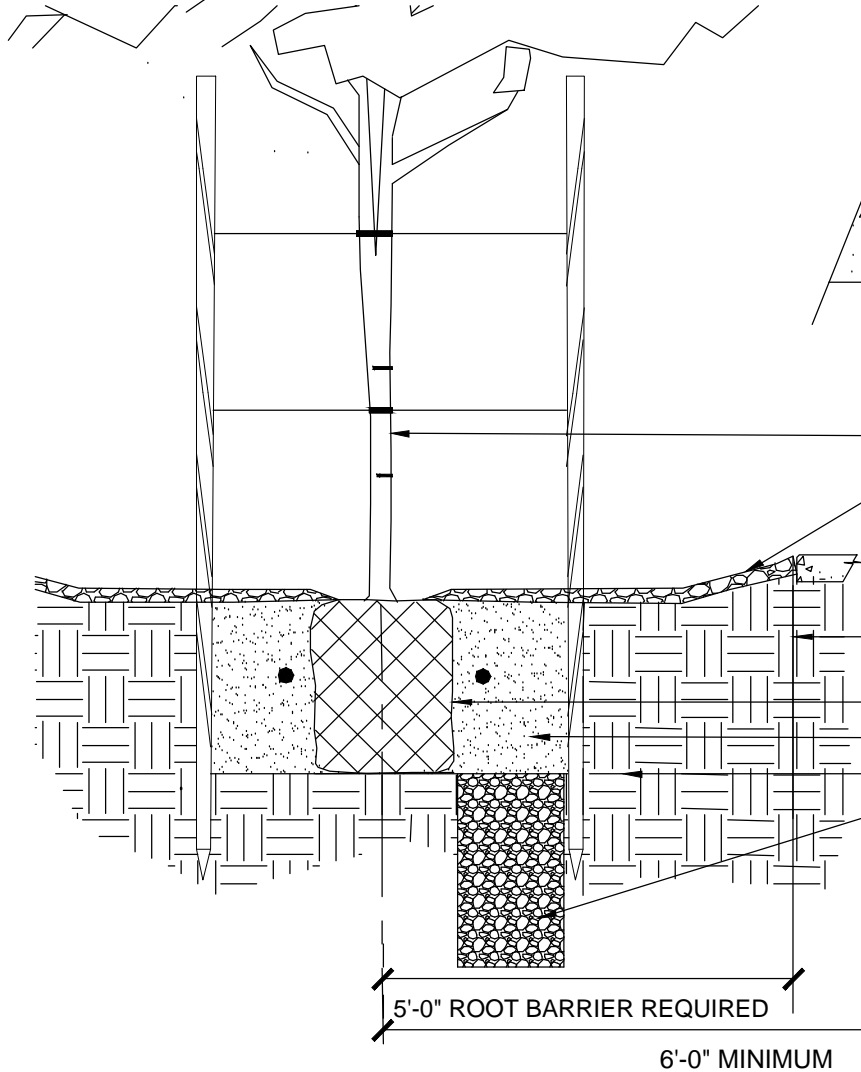
**NOTES:**

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2. DO NOT BURY PALM - MAX 12" DEPTH LOWER THAN ORIGINAL PLANT DEPTH.
3. BUBBLERS TO BE FIXED 1 GAL. AND PLACED 12" FROM THE VERTICAL 3" PERFORATED PIPE SET AT 3" ABOVE FINISHED GRADE.
4. TREE BRACING PER DETAIL 3610-4.
5. CONTRACTOR TO TRIM OLD FRONDS (MAINTAIN A MIN. OF 10 HEALTHY FRONDS). PALM FRONDS SHALL BE SECURELY BUNDLED AND TIED. CONTRACTOR SHALL CUT TIES ONCE NEW FRONDS HAVE GROWN 2'-6" (MIN.).

- (2) 3" CAPPED PERFORATED PIPE SET AT 3" ABOVE FINISHED GRADE, WRAPPED IN FILTER FABRIC
- 2" DEEP WATERING BASIN SHALL BE GENTLE AND UNIFORM THROUGHOUT WITH NO OBTRUSIVE EDGES. BASIN TO BE 2 TIMES WIDTH OF ROOTBALL
- FINISH GRADE: 2" DEPTH DECOMPOSED GRANITE PER LANDSCAPE SCHEDULE
- BACKFILL MIX (NATIVE SOIL)
- LOCATION OF PLANT TABLET PER MANUFACTURER'S SPECIFICATION (SEE NOTE 1)
- BUBBLER LATERAL AND BUBBLER
- UNDISTURBED NATIVE SOIL OR SUBGRADE
- SET ROOTBALL ON NATIVE UNDISTURBED SOIL AND/OR SUBGRADE
- APPROXIMATELY 1" SAND BETWEEN BOTTOM OF ROOTBALL AND TOP OF PIPE

**NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SHALL ONLY USE MATERIALS FROM THE LATEST EDITION OF THE CITY OF GOODYEAR APPROVED MATERIALS LIST FOR PARKS AND RIGHT OF WAYS.
2. A ROOT BARRIER IS REQUIRED FOR TREES PLANTED LESS THAN 5'-0" FROM ANY PAVED OR CONSTRUCTED SURFACES, INCLUDING WALLS/FOOTINGS.



TREE INSTALLATION PER TREE PLANTING DETAIL G-3610-1  
 FINISHED GRADE: 2" DEEP DECOMPOSED GRANITE

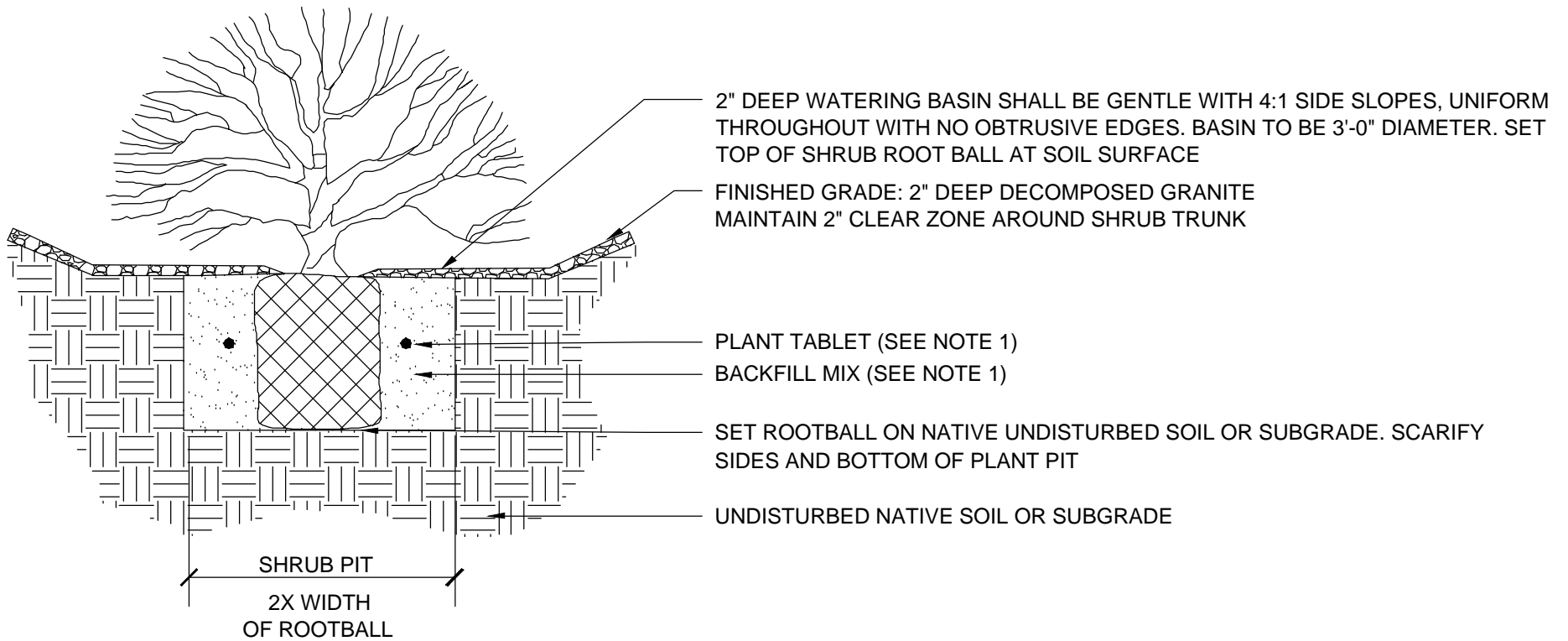
ROOT BARRIER IS REQUIRED ADJACENT TO ANY PAVED OR CONSTRUCTED HARD SURFACES ; SIZE: 24" DEEP  
 ROOT BALL  
 SOIL BACKFILL

UNDISTURBED NATIVE SOIL OR SUBGRADE  
 DRILL ONE (1) 12" DIAMETER X 24" DEEP HOLE. BELOW EXCAVATED PIT RE-TEST PERCOLATION PER SPECIFICATION. CERTIFY PERCOLATION TEST AND FILL HOLE WITH PEA GRAVEL.

TO CENTER LINE OF PIPE  
 WATER OR SEWER LINE (DEPTH AND DIAMETER OF PIPE VARIABLE)

**NOTES:**

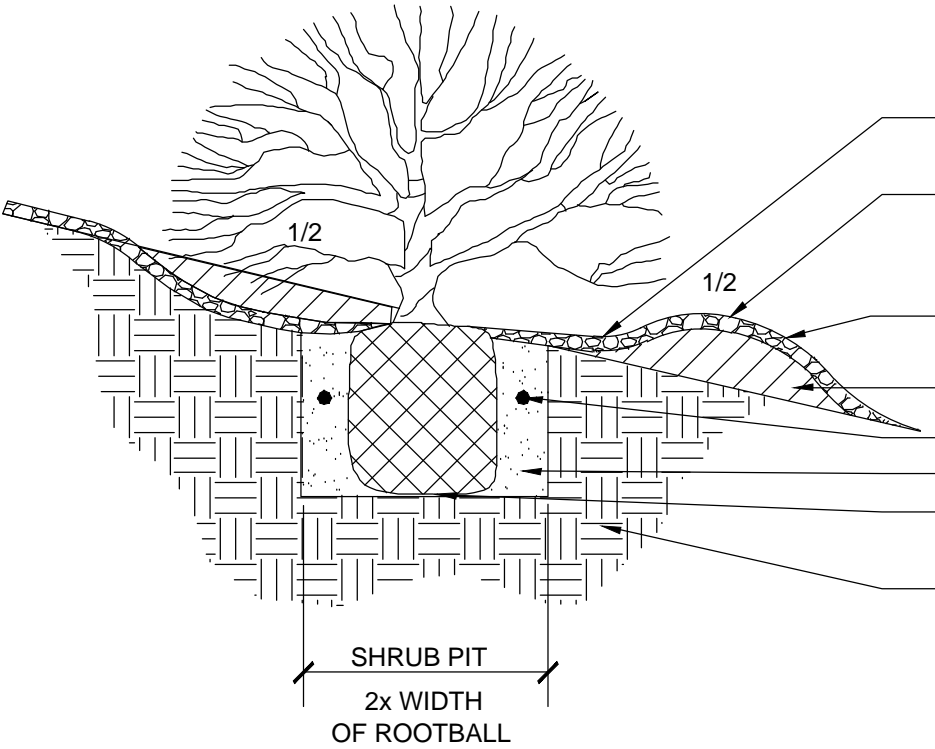
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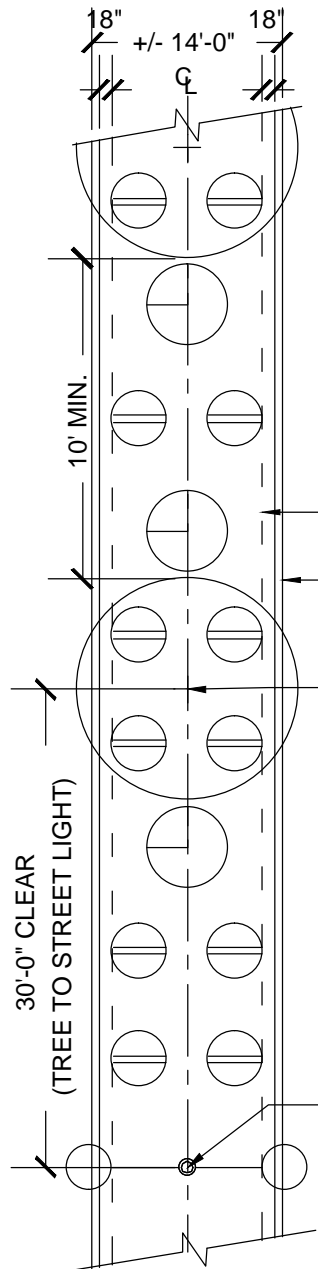


**NOTES:**

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- 2" DEEP WATERING BASIN SHALL BE GENTLE AND UNIFORM THROUGHOUT WITH NO OBTRUSIVE EDGES. BASIN TO BE 3'-0" DIAMETER
- FORM WELL BY DIVING SOIL EQUALLY ACROSS SLOPE
- FINISHED GRADE: 2" DEEP DECOMPOSED GRANITE PER LANDSCAPE SCHEDULE. MAINTAIN 2" CLEAR ZONE AROUND SHRUB TRUNK
- CUT SOIL ON UP SLOPE SIDE AND PLACE ON DOWN SLOPE SIDE
- PLANT TABLET (SEE NOTE 1)
- BACKFILL MIX (SEE NOTE 1)
- SET ROOTBALL ON NATIVE UNDISTURBED SOIL OR SUBGRADE. SCARIFY SIDES AND BOTTOM OF PLANT PIT
- UNDISTURBED NATIVE SOIL OR SUBGRADE



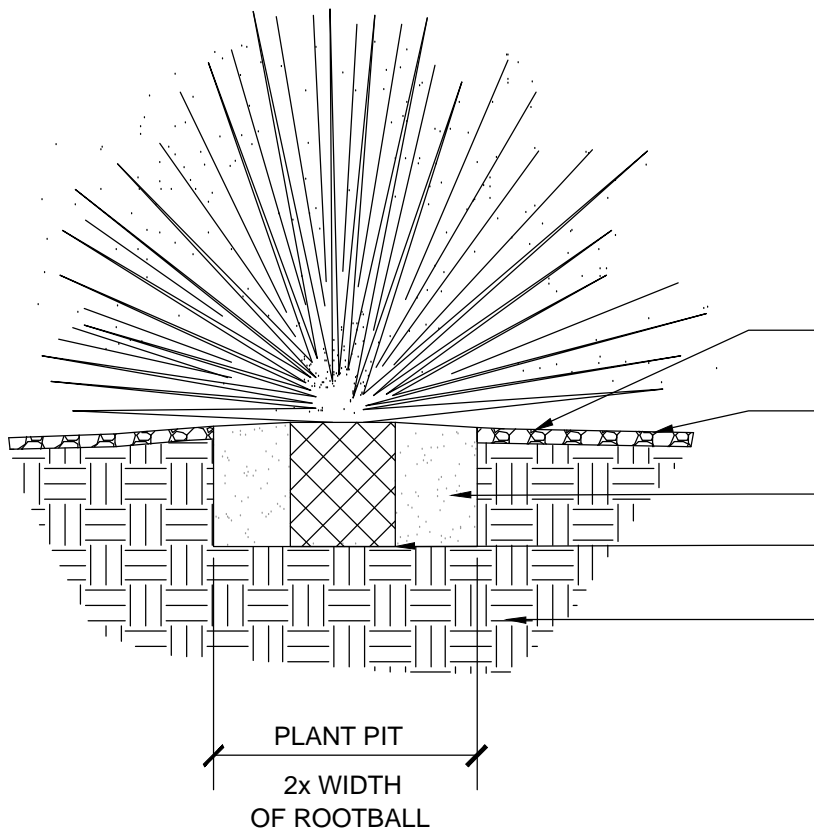
**NOTES:**

1. CONTRACTOR SHALL USE CURRENT CITY OF GOODYEAR PARKS AND RIGHT-OF-WAYS "MATERIALS LIST" AS REFERENCED ON THE DETAIL.
2. GRADE OF MEDIAN SHALL SLOPE 8% FROM FACE OF CURB TO MIDDLE OF MEDIAN.
3. MAINTAIN TOP OF DECOMPOSED GRANITE 1" BELOW TOP OF CURB
4. SOIL WITHIN MEDIAN SHALL BE SLOPED TOWARD THE CENTER OF THE MEDIAN WITH AN 8% GRADIENT.

18" CLEAR FROM FACE OF CURB TO OUTSIDE EDGE OF MATURE SHRUB CANOPY  
 MEDIAN CURB

STREET TREE SPACED 1 1/2 TIMES THE WIDTH OF THE CANOPY.

STREET LIGHT; MAINTAIN 1 1/2 TIMES THE WIDTH OF THE TREE CANOPY CLEAR BETWEEN TREE AND STREET LIGHT



**NOTES:**

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TO REDUCE PONDING, ESTABLISH POSITIVE DRAINAGE AWAY FROM PLANT BASE

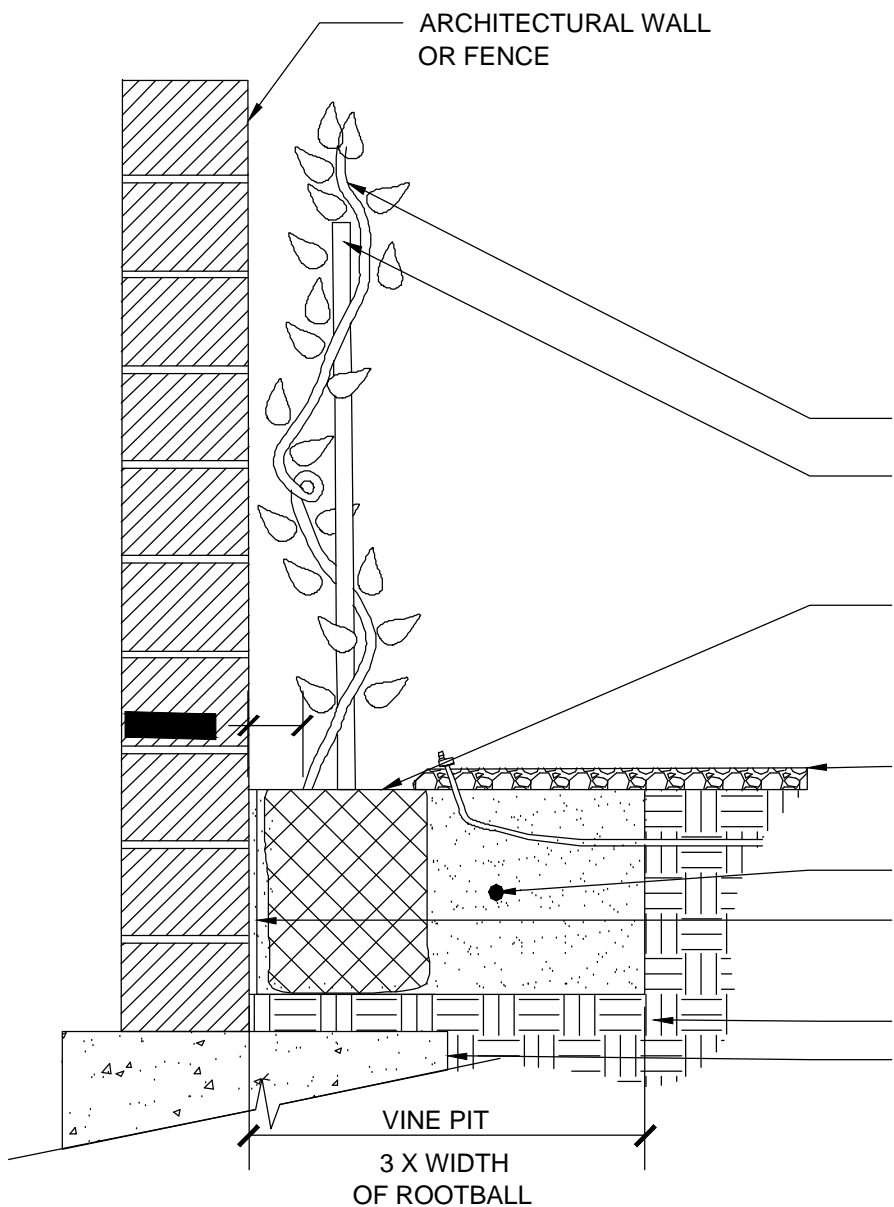
FINISHED GRADE: 2" DEEP DECOMPOSED GRANITE PER LANDSCAPE SCHEDULE  
 MAINTAIN 4" CLEAR ZONE AROUND ACCENT TRUNK

BACKFILL MIX (SEE NOTE 1)

SET ROOTBALL ON NATIVE UNDISTURBED SOIL OR SUBGRADE. SCARIFY  
 SIDES AND BOTTOM OF PLANT PIT

UNDISTURBED NATIVE SOIL OR SUBGRADE

PLANT PIT  
 2x WIDTH  
 OF ROOTBALL



**NOTES:**

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2. ALTERNATE METHOD OF ATTACHMENT. VINE SHALL BE ATTACHED TO SURFACE OF FREESTANDING MASONRY WALLS WITH CLEAR EPOXY VINE TIES. DO NOT ATTACH VINES TO BUILDING.
3. VINES WITH NURSERY ESPALIER STAKE TO BE MOVED OUT OF ROOTBALL AND INSTALLED 6" FROM BUILDING.
4. TOP OF WATERING BASINS TO BE MIN 6" BELOW FINISHED FLOOR OF BUILDING.

SPREAD VINE ONTO WALL WITH VINYL PLANT TIES (SEE NOTE 1)

CONTRACTOR SHALL REMOVE NURSERY STAKE ONCE VINE HAS ATTACHED TO ARCHITECTURAL WALL OR FENCE

SET ROOTBALL TIGHT TO FOOTING, REMOVE ANY EXCESS TRASH OR CONCRETE THAT WOULD AFFECT PLANTING PIT

FINISHED GRADE: 2" DEEP DECOMPOSED GRANITE PER LANDSCAPE SCHEDULE

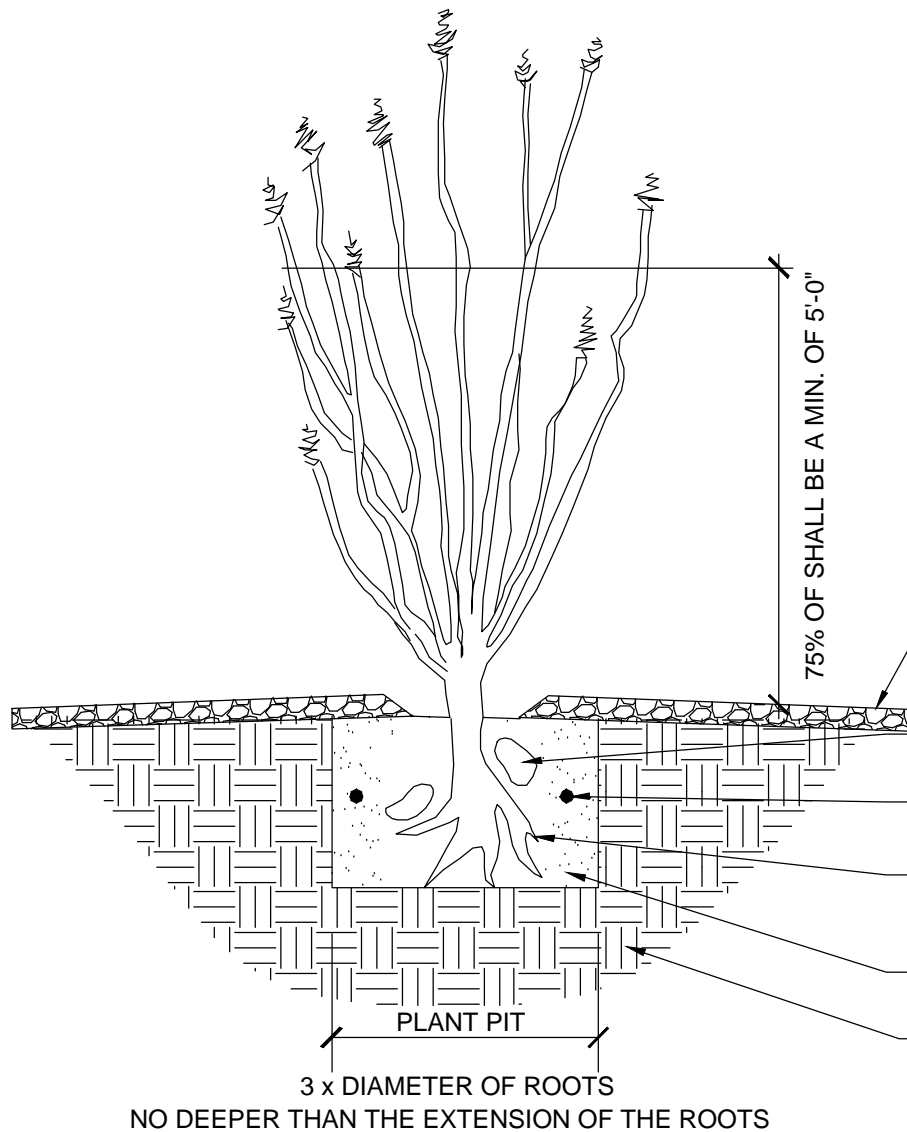
PLANT TABLET (SEE NOTE 1)

CONTRACTOR SHALL INSTALL A 3'-0" WIDE WATER PROOF MAT BETWEEN WALL AND FOOTING; ATTACH PER MANUFACTURER'S RECOMMENDATIONS (SEE NOTE 1)

UNDISTURBED NATIVE SOIL OR SUBGRADE

ANY DEVIATION TO STANDARD INSTALLATION TO AVOID CONFLICTS WITH THE WALL OR FENCE FOOTING SHALL BE COORDINATED WITH THE CITY OF GOODYEAR REPRESENTATIVE

VINE PIT  
3 X WIDTH  
OF ROOTBALL



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2. OCOTILLO SHALL HAVE TWELVE (12) CANES MINIMUM
3. DURING WARM GROWING MONTHS, IRRIGATE EVERY MONTH IF NO RAIN.
4. TO REDUCE PONDING, ESTABLISH POSITIVE DRAINAGE AWAY FROM OCOTILLO BASE.

FINISHED GRADE: 2" DEEP DECOMPOSED GRANITE  
 MAINTAIN 4" CLEAR ZONE AROUND OCOTILLO BASE

USE 6" TO 8" ROCKS TO ANCHOR ROOTS

PLANT TABLET: LOCATION OF PLANT TABLETS SHALL BE PER  
 MANUFACTURER'S RECOMMENDATIONS (SEE NOTE 1)

ROOT PRUNE ALL SHREDDED OR DAMAGED ROOTS AND DUST  
 ENTIRE ROOT STRUCTURE WITH WETTABLE SULPHUR (1.5 MIN.) AT  
 PLANTING SITE

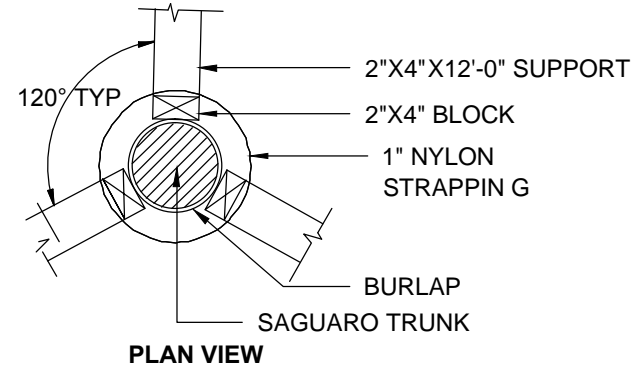
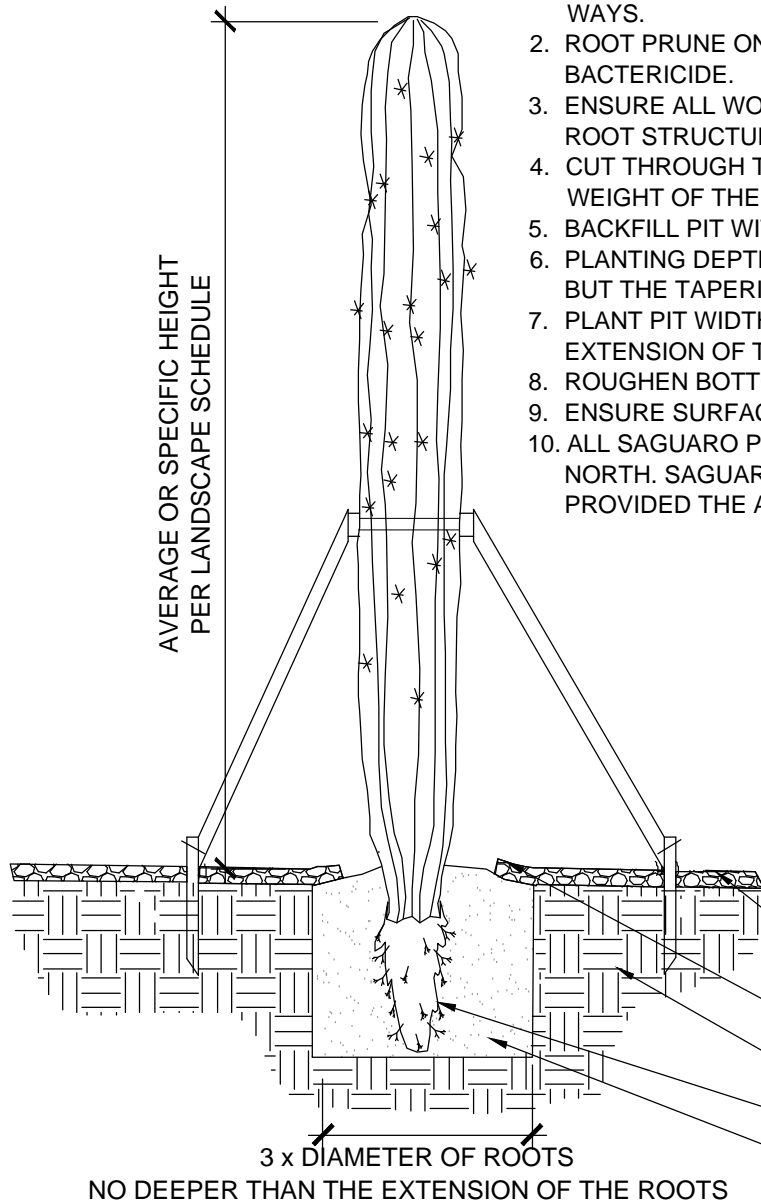
BACKFILL WITH MOIST NATIVE SITE SOIL.  
 FOR SOIL MIX (SEE NOTE 1)

UNDISTURBED NATIVE SOIL OR SUBGRADE

3 x DIAMETER OF ROOTS  
 NO DEEPER THAN THE EXTENSION OF THE ROOTS

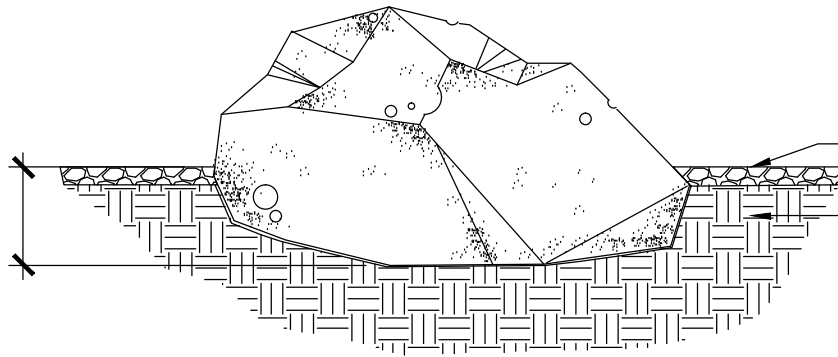
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2. ROOT PRUNE ONLY SHREDDED OR DAMAGED ROOTS. TREAT ALL SURFACE WOUNDS WITH BACTERICIDE.
3. ENSURE ALL WOUNDS TO THE ROOT SYSTEM ARE CLEAN CUT BEFORE PLANTING. TREAT ENTIRE ROOT STRUCTURE WITH WETTABLE SULFUR AND AGRA-MYCIN.
4. CUT THROUGH TAPROOT TO PROVIDE A FLAT BASE WITH DIAMETER SUFFICIENT TO SUPPORT THE WEIGHT OF THE UNSUPPORTED SAGUARO.
5. BACKFILL PIT WITH 6" LAYERS OF ROTTED, COMPACTED, MOIST, NATIVE SITE SOIL.
6. PLANTING DEPTH SHALL BE THE DEPTH AT WHICH THE PLANT WAS GROWN OR SLIGHTLY DEEPER, BUT THE TAPERING OF THE ROOT COLLAR MUST BE VISIBLE.
7. PLANT PIT WIDTH SHALL BE 3 TIMES THE DIAMETER OF THE STEM AND NO DEEPER THAN THE EXTENSION OF THE ROOTS.
8. ROUGHEN BOTTOM AND SIDES OF PLANT PIT PRIOR TO SETTING.
9. ENSURE SURFACE WATER CANNOT STAND AGAINST THE ROOT COLLAR.
10. ALL SAGUARO PLACEMENT SHALL MATCH ORIGINAL ORIENTATION WITH THE NORTH SIDE FACING NORTH. SAGUARO ARE SPECIFIED BY HEIGHT. A VARIETY OF HEIGHTS MAY BE ACCEPTABLE PROVIDED THE AVERAGE IS NOT LESS THAN SPECIFIED.



- FINISHED GRADE: 2" DEEP DECOMPOSED GRANITE PER LANDSCAPE SCHEDULE. MAINTAIN 4" CLEAR ZONE AROUND SAGUARO BASE
- 4" HEIGHT BERM TO PROVIDE POSITIVE DRAINAGE AWAY FROM BASE
- UNDISTURBED NATIVE SOIL OR SUBGRADE
- 8" TO 12" MIN. TAPROOT BELOW ROOT BASE WITH LATERAL ROOTS
- SOIL MIX USE 30%-40% SAND AND 60%-70% NATIVE SOIL

BOULDER SHALL BE BURIED  
BELOW GRADE FOR NATURAL AESTHETICS



**NOTES:**

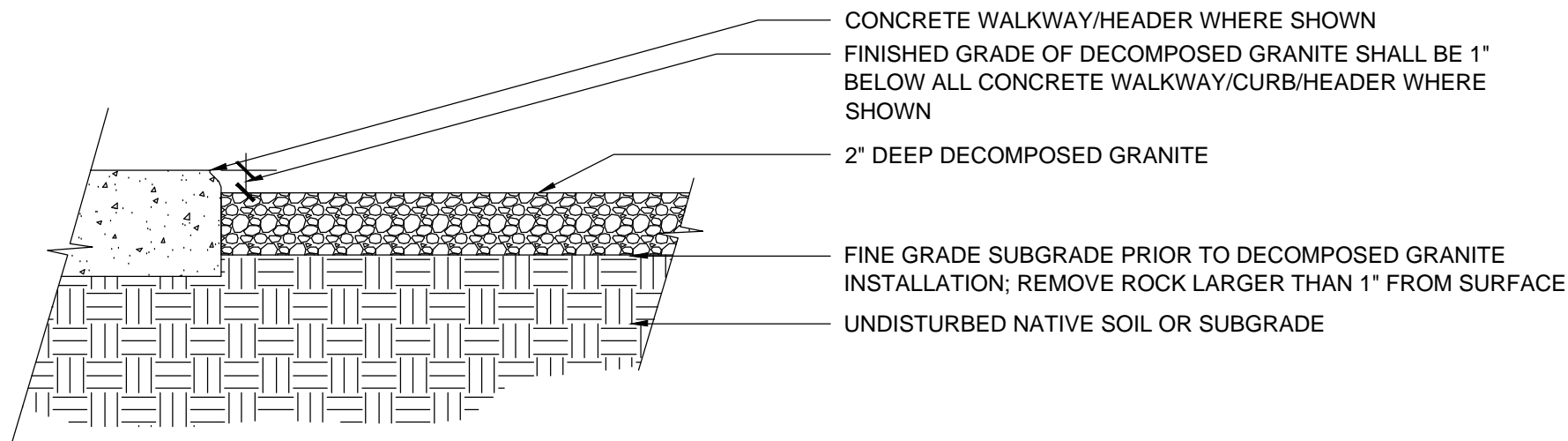
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2. BOULDERS SHALL BE PLACED UNDER THE DIRECTION OF CITY OF GOODYEAR REPRESENTATIVE.
3. SEE LANDSCAPE SCHEDULE FOR TYPE AND SIZE OF BOULDER.
4. BOULDERS TO BE PLACED IN A WAY THAT THERE IS NO SCARRING.

FINISHED GRADE: 2" DEEP DECOMPOSED GRANITE PER LANDSCAPE SCHEDULE

UNDISTURBED NATIVE SOIL OR COMPACTED SUBGRADE

**NOTES:**

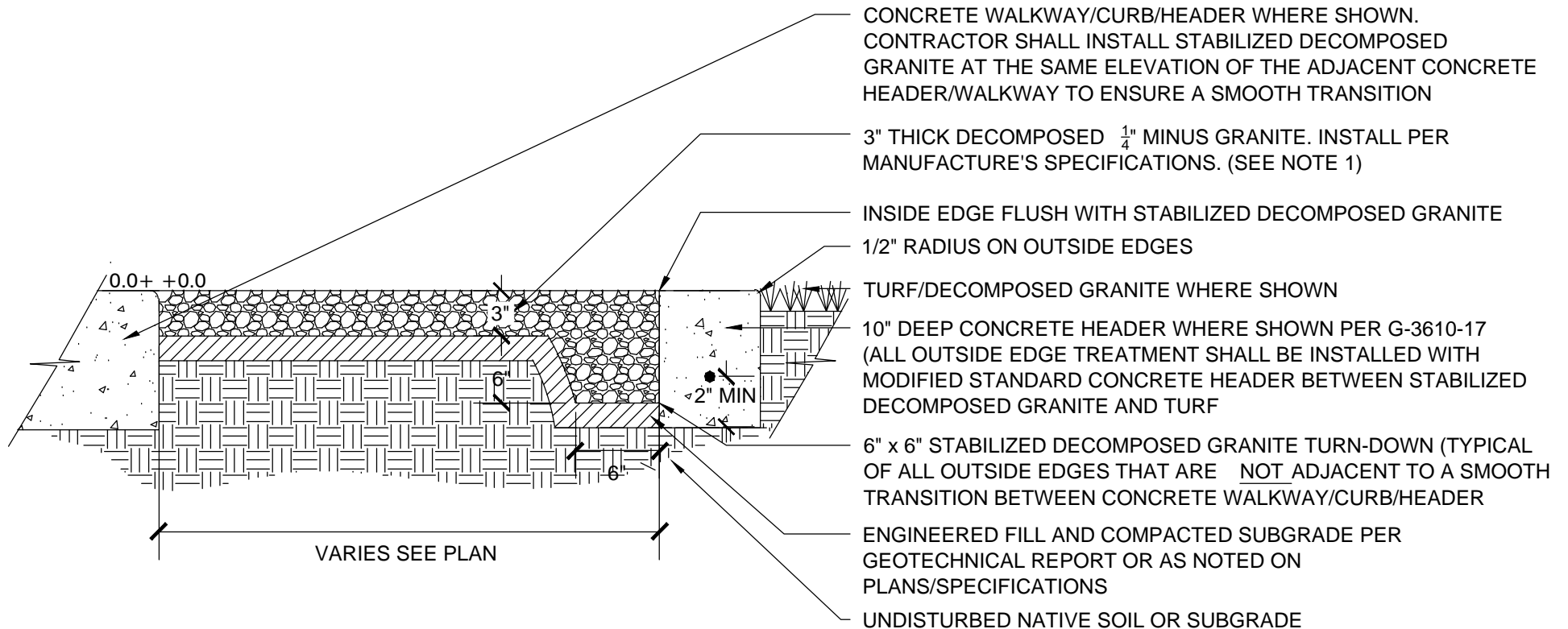
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2. APPLY PRE-EMERGENT HERBICIDE PRIOR TO INSTALLATION OF DECOMPOSED GRANITE, ONE WEEK AFTER INSTALLATION OF DECOMPOSED GRANITE, AND ONE WEEK BEFORE PROJECT IS TURNED OVER TO THE CITY OF GOODYEAR. PRE-EMERGENT TO BE APPLIED AT 6 MONTH INTERVALS (MAX.) AND SHALL BE FULL-STRENGTH. EACH APPLICATION OF PRE-EMERGENT SHALL BE WATERED IN PER MANUFACTURER'S RECOMMENDATIONS.
3. FINISH GRADE SHALL BE RAKED SMOOTH WITH NO CONTAMINATES OF CONSTRUCTION AND/OR UNDULATION CREATED BY CONSTRUCTION.
4. PRIOR TO INSTALLATION, THE COLOR AND GRADATION OF THE DECOMPOSED GRANITE SHALL BE APPROVED BY THE CITY OF GOODYEAR REPRESENTATIVE.





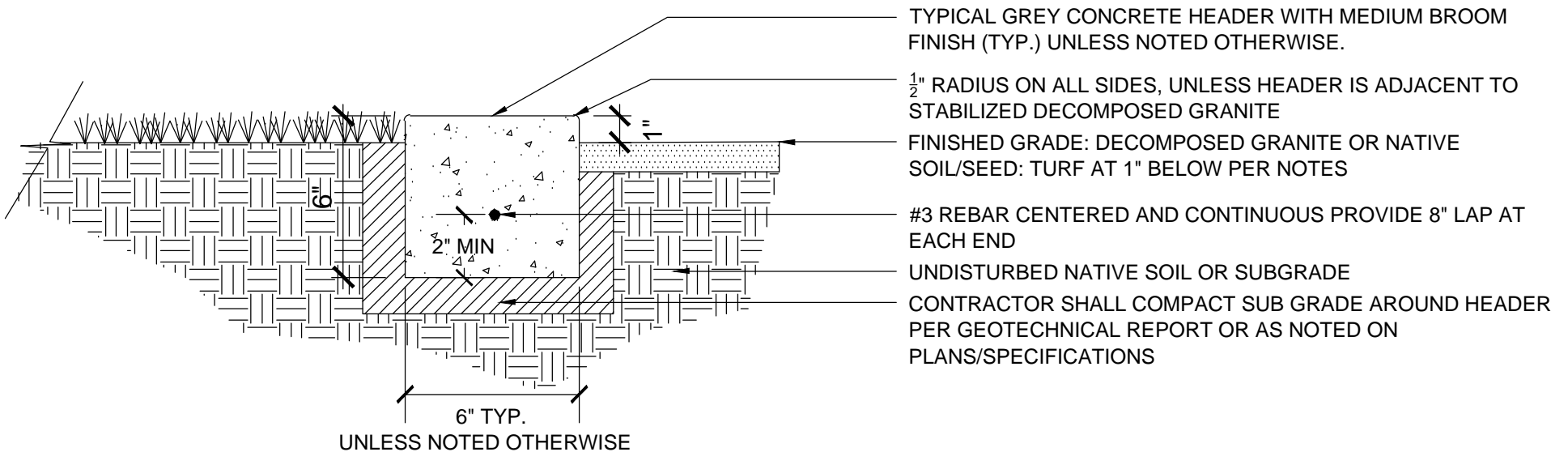
**NOTES:**

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2. CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN STABILIZED DECOMPOSED GRANITE AND CONCRETE WALKWAY/CURB/HEADER WHERE SHOWN.
3. THERE SHALL BE NO PONDING ON STABILIZED DECOMPOSED GRANITE. ENSURE POSITIVE DRAINAGE.
4. APPLY PRE-EMERGENT HERBICIDE PRIOR TO INSTALLATION OF STABILIZED DECOMPOSED GRANITE, ONE WEEK AFTER INSTALLATION OF STABILIZED DECOMPOSED GRANITE, AND ONE WEEK BEFORE PROJECT IS TURNED OVER TO THE CITY OF GOODYEAR. PRE-EMERGENT SHALL BE APPLIED AT 6 MONTH INTERVALS (MAX.) AND SHALL BE FULL-STRENGTH. EACH APPLICATION OF PRE-EMERGENT SHALL BE WATERED IN PER MANUFACTURERS RECOMMENDATIONS.



**NOTES:**

1. HEADER SHALL BE FLUSH WITH ADJACENT STABILIZED DECOMPOSED GRANITE PATHWAY AND TRANSITION WITH CONCRETE WALKWAYS.
2. ADJACENT TO TURF; FINISHED GRADE OF TURF SHALL BE 1" BELOW TOP OF CONCRETE HEADER.
3. CITY OF GOODYEAR REPRESENTATIVE SHALL APPROVE FORM WORK PRIOR TO PLACING CONCRETE.
4. CONCRETE SHALL BE MAG. CLASS "B".
5. EXPANSION JOINTS @ 24'-0" ON CENTER AND AT ALL LOCATIONS WHERE NEW CONCRETE MEETS EXISTING CONCRETE.
6. CONTRACTOR SHALL INSTALL CONTROL JOINTS EVERY 4'-0" O.C. OR AT EQUAL DISTANCE ALONG HEADER IF SECTION LENGTH IS NOT DIVISIBLE BY 4'-0".
7. STRAIGHT SECTIONS TO MEET CURVED SECTIONS AT TRUE TANGENT POINTS WITH NO BROKEN CURVE SECTIONS.
8. CURVED SECTIONS TO BE FORMED IN SMOOTH, EVEN CURVES.
9. FORM STAKING SHALL KEEP CONCRETE FROM DEFORMING OR LEAKING. ALL SPILL OF EXCESS CONCRETE SHALL BE CLEANED UP AND REMOVED FROM SITE BY CONTRACTOR.



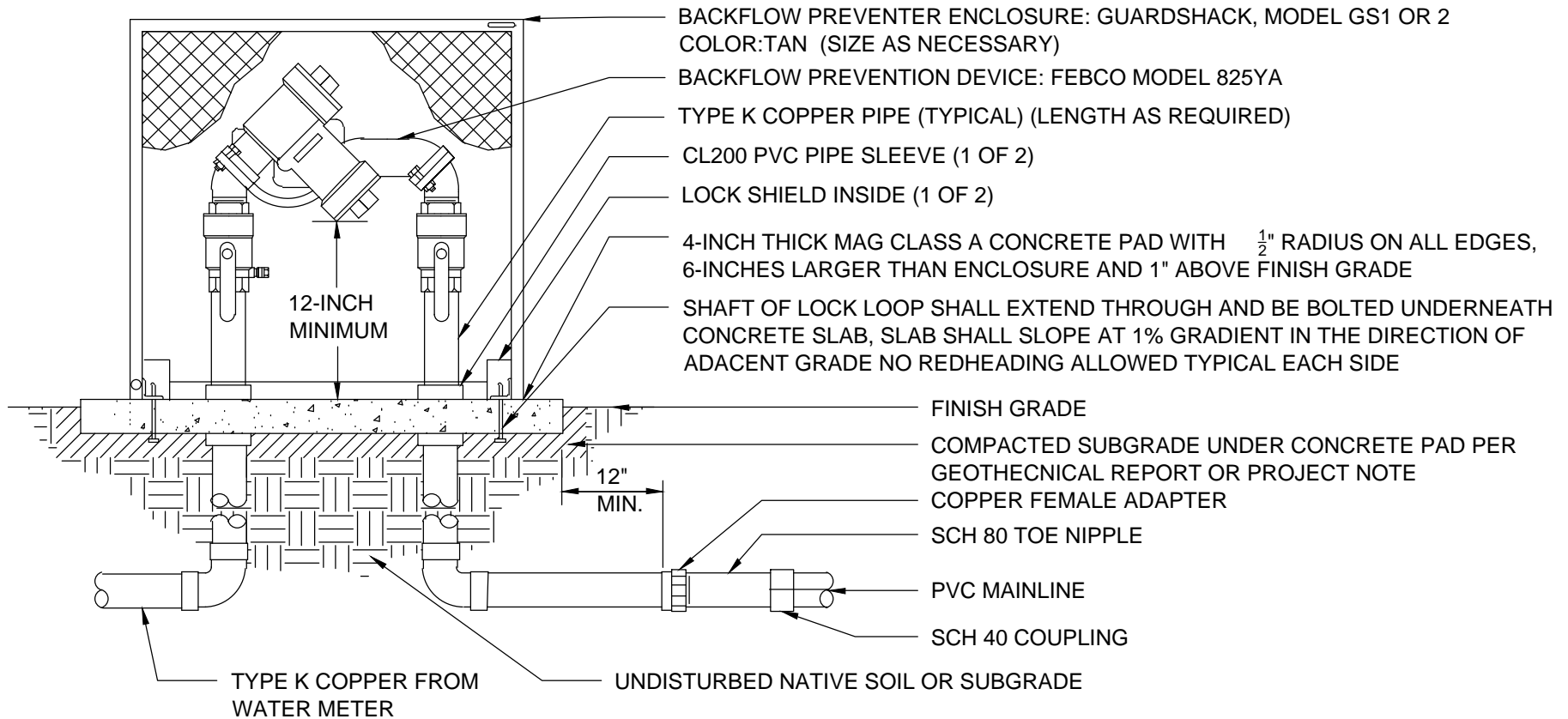
WIRE SIZE (AWG)	MAXIMUM NUMBER OF WIRES TO BE INSTALLED IN A SCHEDULE 40 PVC SLEEVE			WIRE SIZE (AWG)
	2"	2-1/2"	3"	
14	25	40	56	14
12	20	33	50	12

NOTE:

1. ALL WIRE SLEEVES TO BE SHC. 40 PVC AND SHALL BE INSTALLED WITH A MINIMUM OFFSET AT THE JOINTS TO PERMIT EASY INSTALLATION AND REMOVAL OF CONTROL AND COMMON WIRES. ALL WIRES SHALL BE INSTALLED IN SLEEVES UNDER THE PAVED AREAS. SLEEVES SHALL EXTEND AT LEAST 12" BEYOND THE EDGES OF THE PAVEMENT. SIZE OF SLEEVES SHALL BE AS SHOWN.

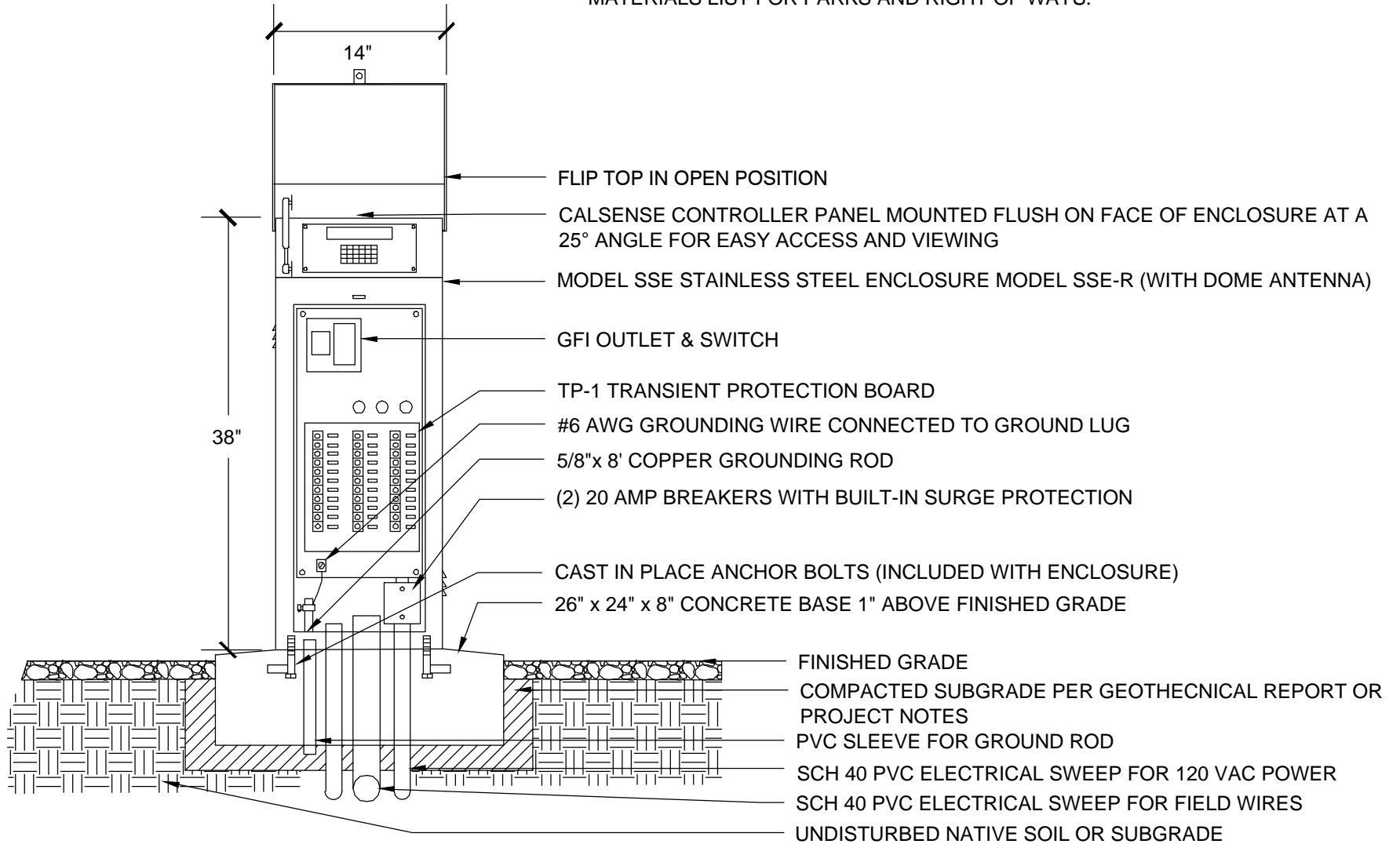
**NOTES:**

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2. SUBMIT SHOP DRAWINGS SPECIFYING ENCLOSURE SIZE AND SHOWING RELATIVE LAYOUT OF EQUIPMENT.
3. CONTRACTOR SHALL PROVIDE A LOCK FOR THE ENCLOSURE UNTIL SUBSTANTIAL COMPLETION APPROVAL. AT THAT TIME CONTRACTOR SHALL REMOVE HIS LOCK AND THE CITY SHALL PROVIDE A LOCK FOR THE ENCLOSURE.
4. IRRIGATION MAINLINES LESS THAT 2" SHALL BE SCH. 40, MAINLINES 2"-3" SHALL BE BALL GASKET CLASS 315, MAINLINES GREATER THAN 3" SHALL BE CLASS 200. MAINLINES SHALL COMFORM TO ASTM D1785.
5. CONTRACTOR SHALL FURNISH FITTINGS AND PIPING SIZED IDENTICALLY WITH NOMINAL BACKFLOW PREVENTION DEVICE.



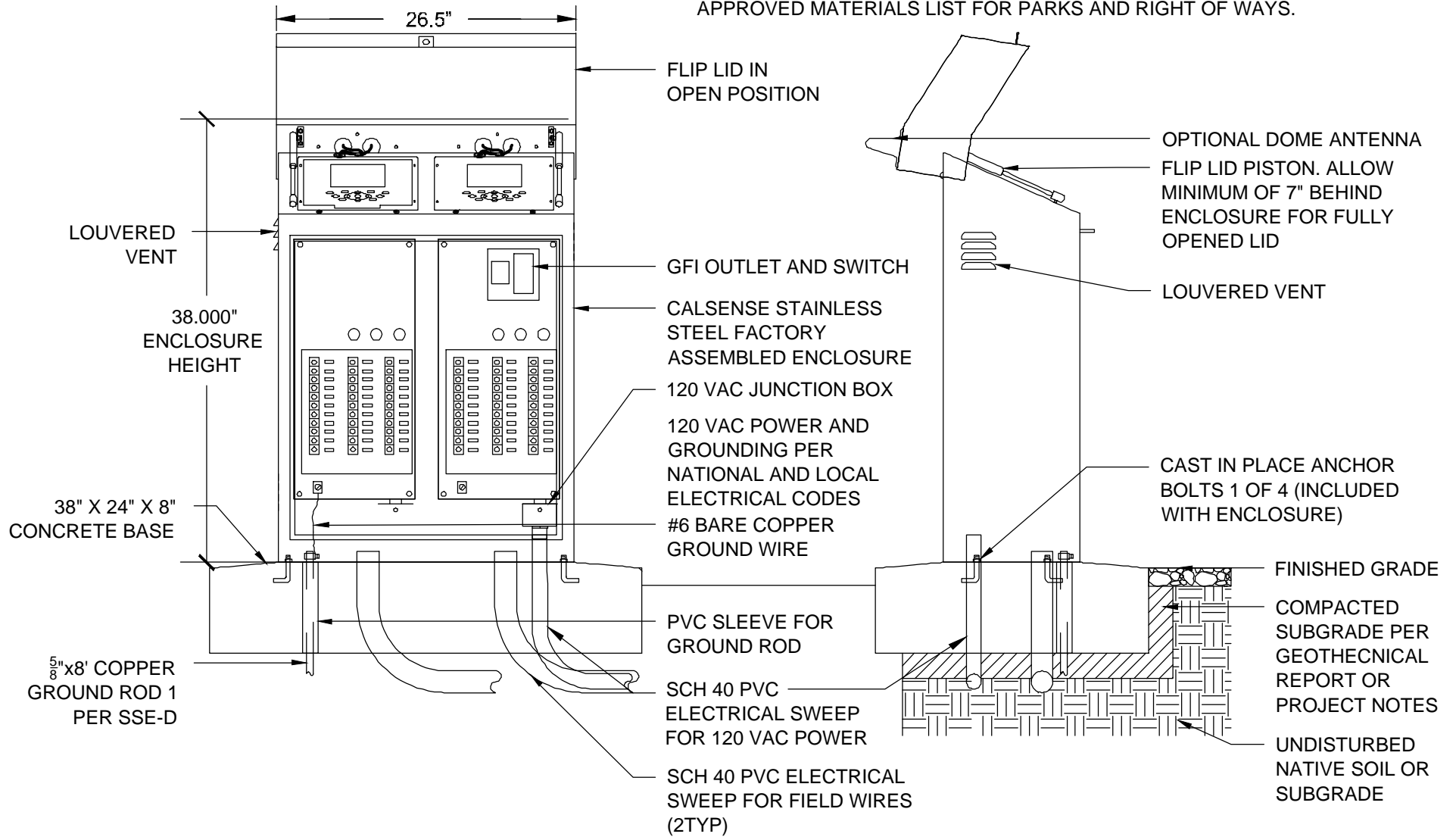
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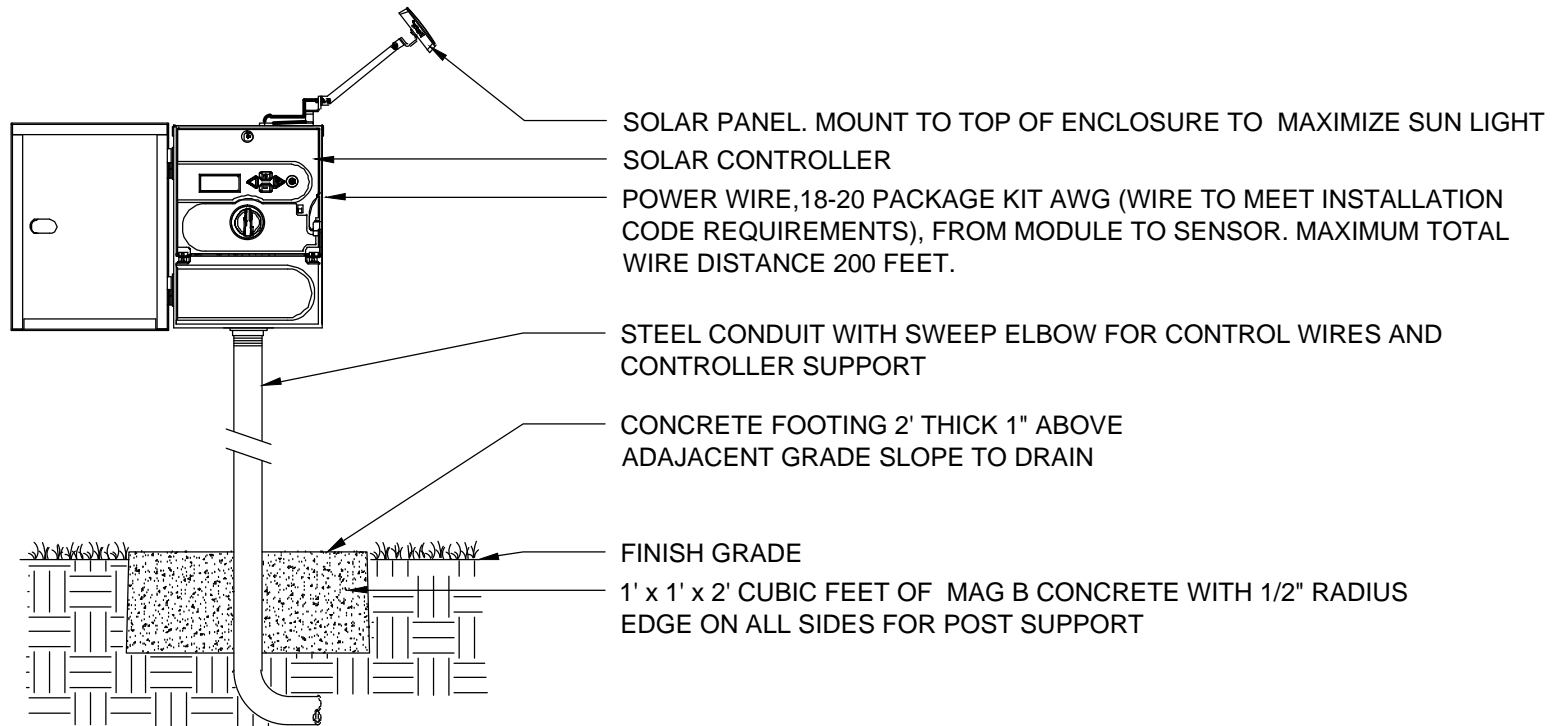
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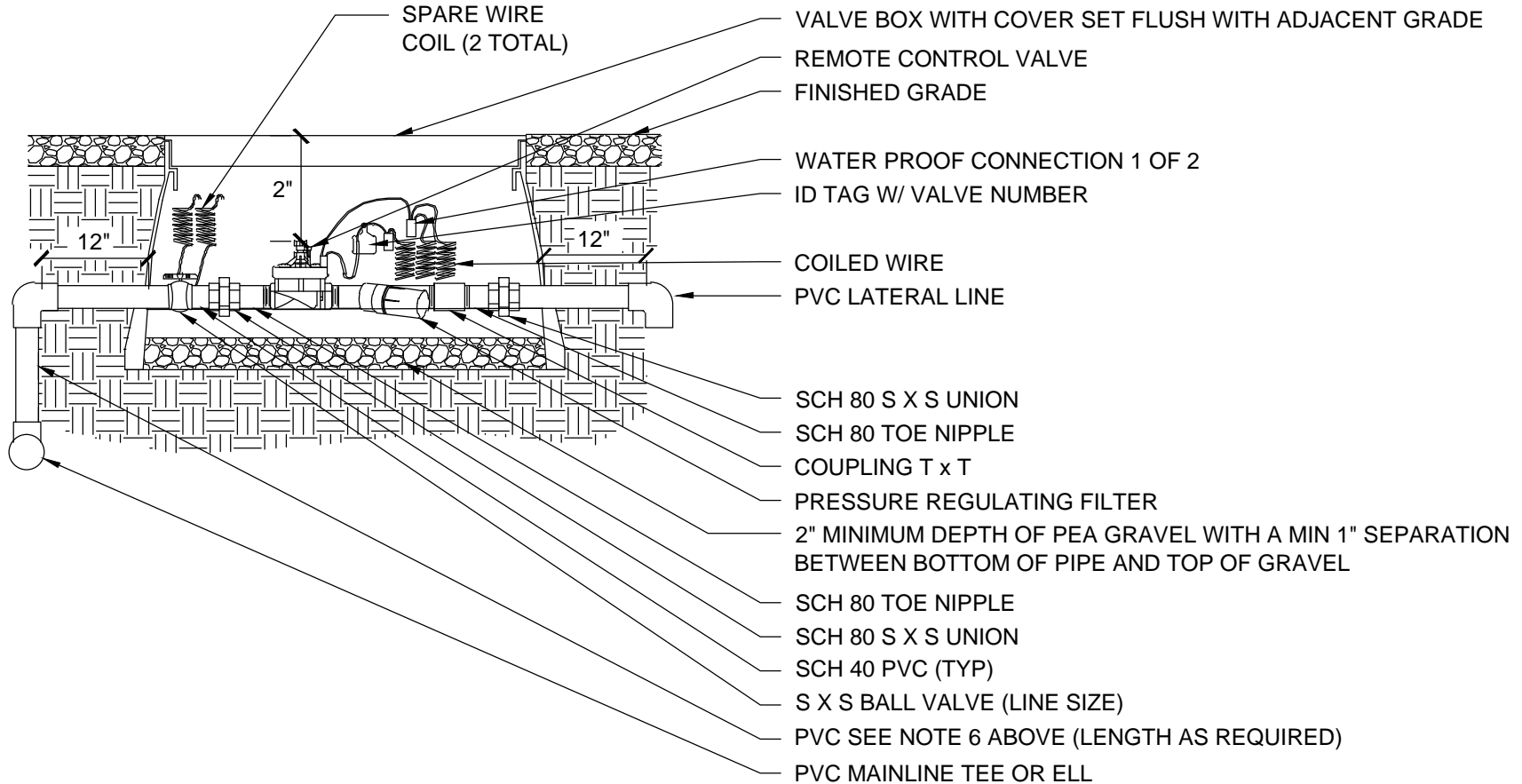
**NOTES:**

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2. INSTALL CONTROLLER PER MANUFACTURER'S SPECIFICATIONS.
3. SPECIFY STATION MODEL CONTROLLER. MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL.



**NOTES:**

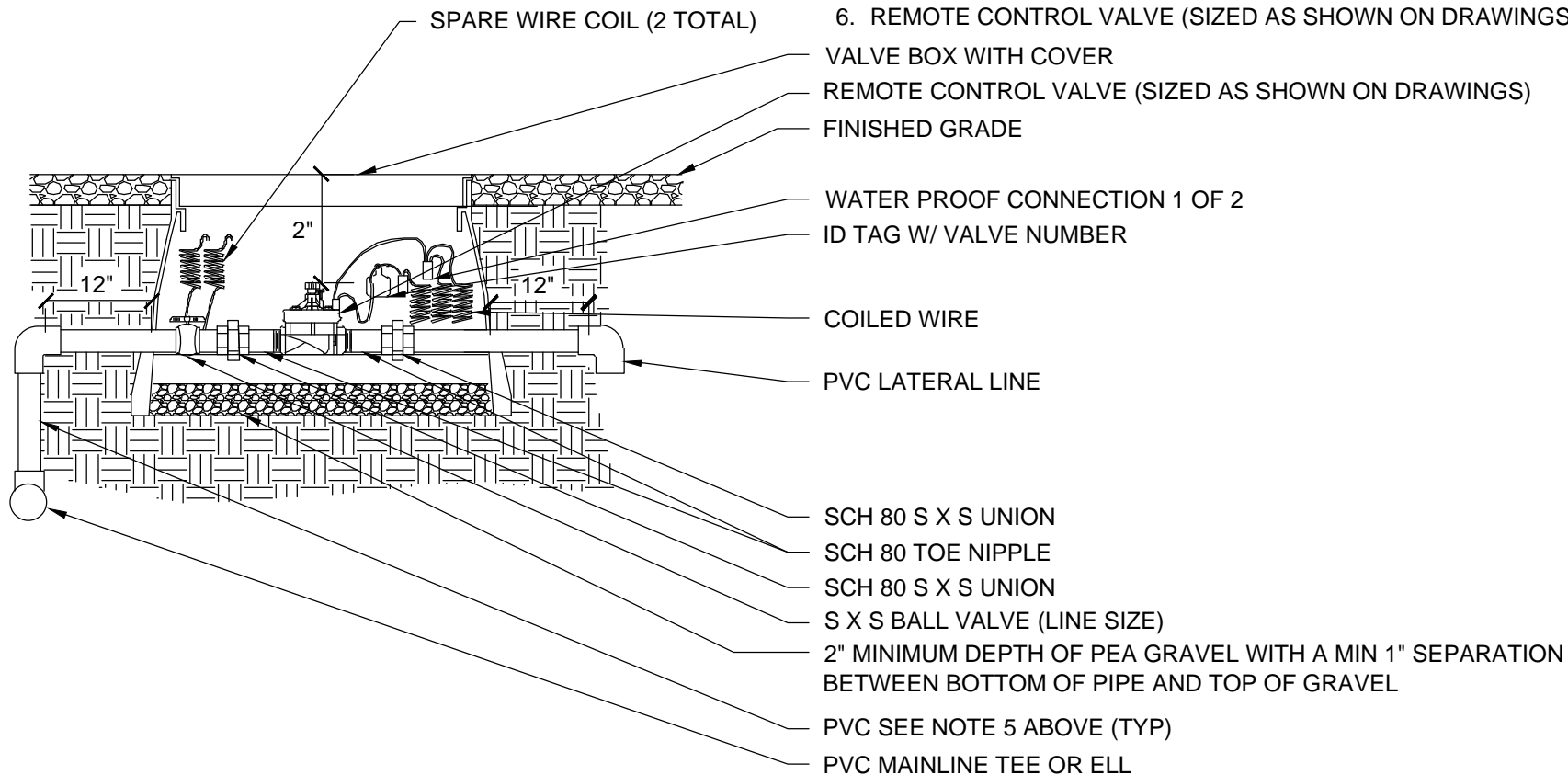
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SHALL ONLY USE MATERIALS FROM THE LATEST EDITION OF THE CITY OF GOODYEAR APPROVED MATERIALS LIST FOR PARKS AND RIGHT OF WAYS.
2. STATION NO. ENGRAVED ON LID.
3. MAINLINE SHALL NOT TO BE INSTALLED UNDER VALVE BOX.
4. ALL VALVE BOXES TO BE (MIN) 3 FEET APART FROM EACH OTHER.
5. INSTALL 2 EXTRA WIRES, ONE WHITE (COMMON) AND ONE GREEN INTO EACH VALVE BOX AND COIL PER NOTE 1 ABOVE.
6. IRRIGATION MAINLINES LESS THAT 2" SHALL BE SCH. 40, MAINLINES 2"-3" SHALL BE BALL GASKET CLASS 315, MAINLINES GREATER THAN 3" SHALL BE CLASS 200. MAINLINES SHALL COMFORM TO ASTM D1785.
7. COILED WIRE, WRAP AROUND 1" PVC PIPE 15 TIMES.





**NOTES:**

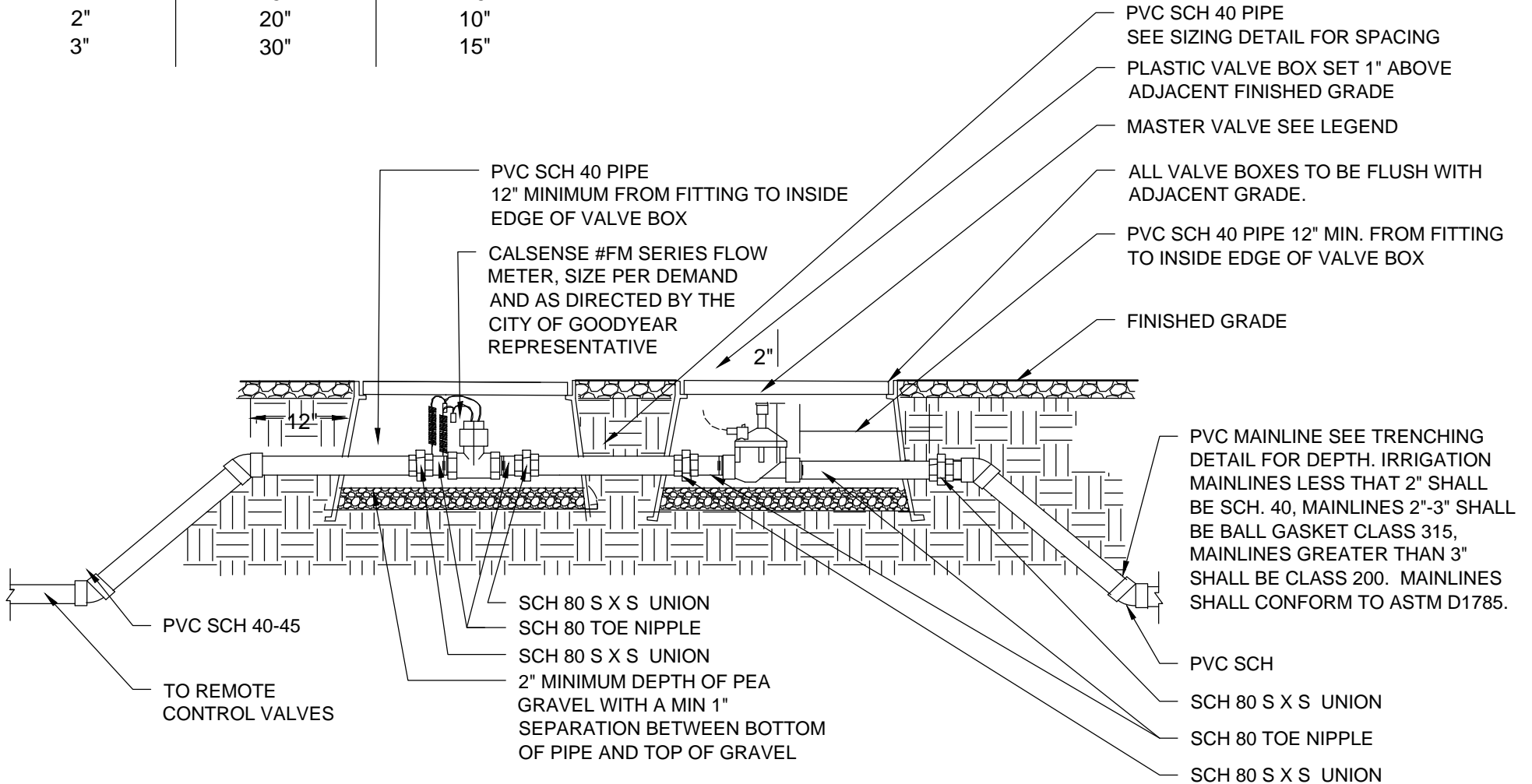
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2. EXPANSION COIL WRAP AROUND 1" PIPE 15 TIMES.
3. VALVE BOX COVER IS ENGRAVED WITH THE VALVE NUMBER (2" HIGH MIN.).
4. VALVE BOXES SHALL NOT BE PLACED IN TURF UNLESS ABSOLUTELY NECESSARY. KEEP TOP OF VALVE BOX FLUSH WITH ADJACENT GRANDE.
5. IRRIGATION MAINLINES LESS THAT 2" SHALL BE SCH. 40, MAINLINES 2"-3" SHALL BE BALL GASKET CLASS 315, MAINLINES GREATER THAN 3" SHALL BE CLASS 200. MAINLINES SHALL CONFORM TO ASTM D1785.
6. REMOTE CONTROL VALVE (SIZED AS SHOWN ON DRAWINGS).



FLOW METER SIZE	MIN UPSTREAM DISTANCE	MIN DOWNSTREAM DISTANCE
1"	12"	5"
1-1/4"	12.5"	6.25"
1-1/2"	15"	7.5"
2"	20"	10"
3"	30"	15"

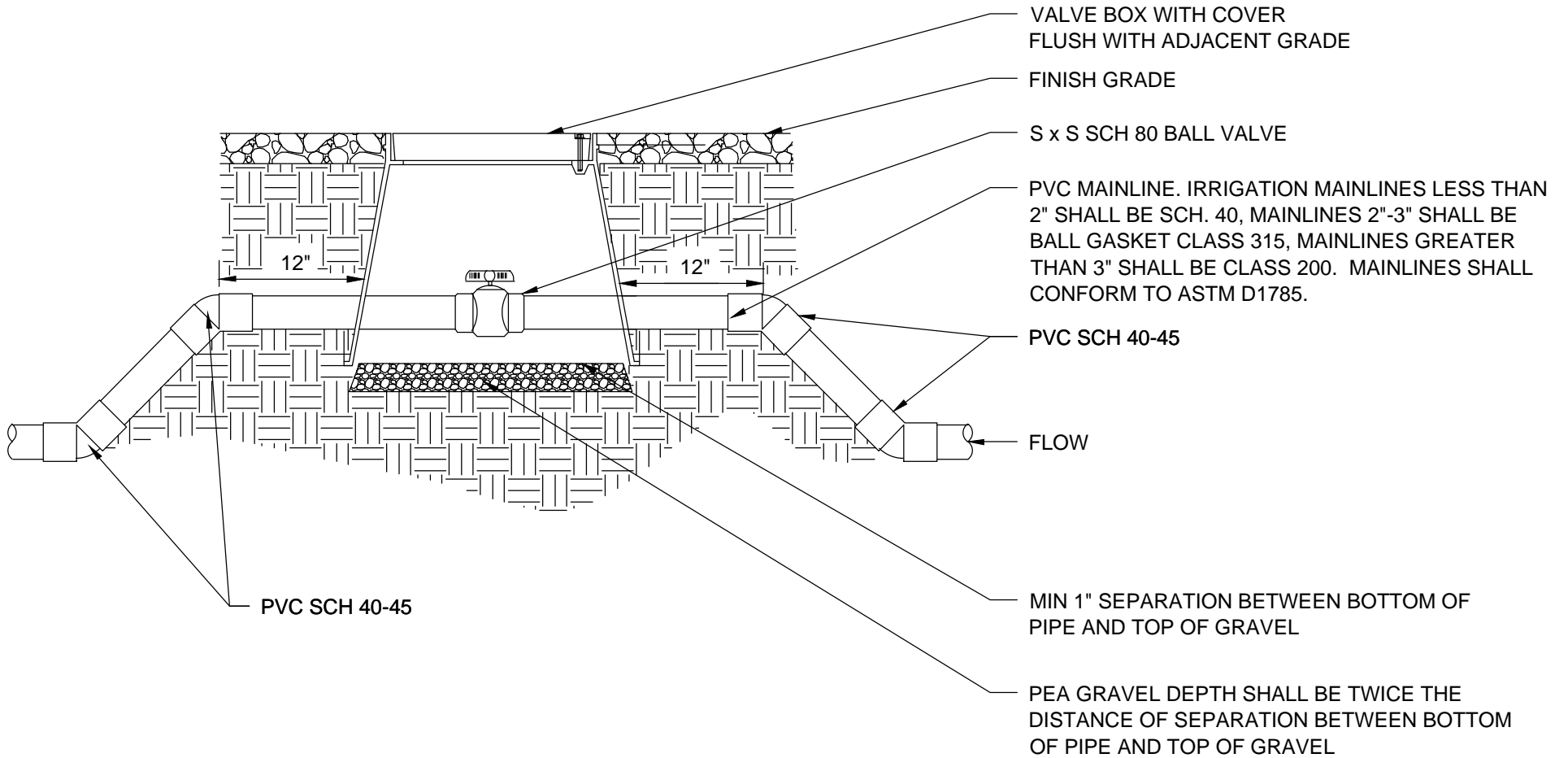
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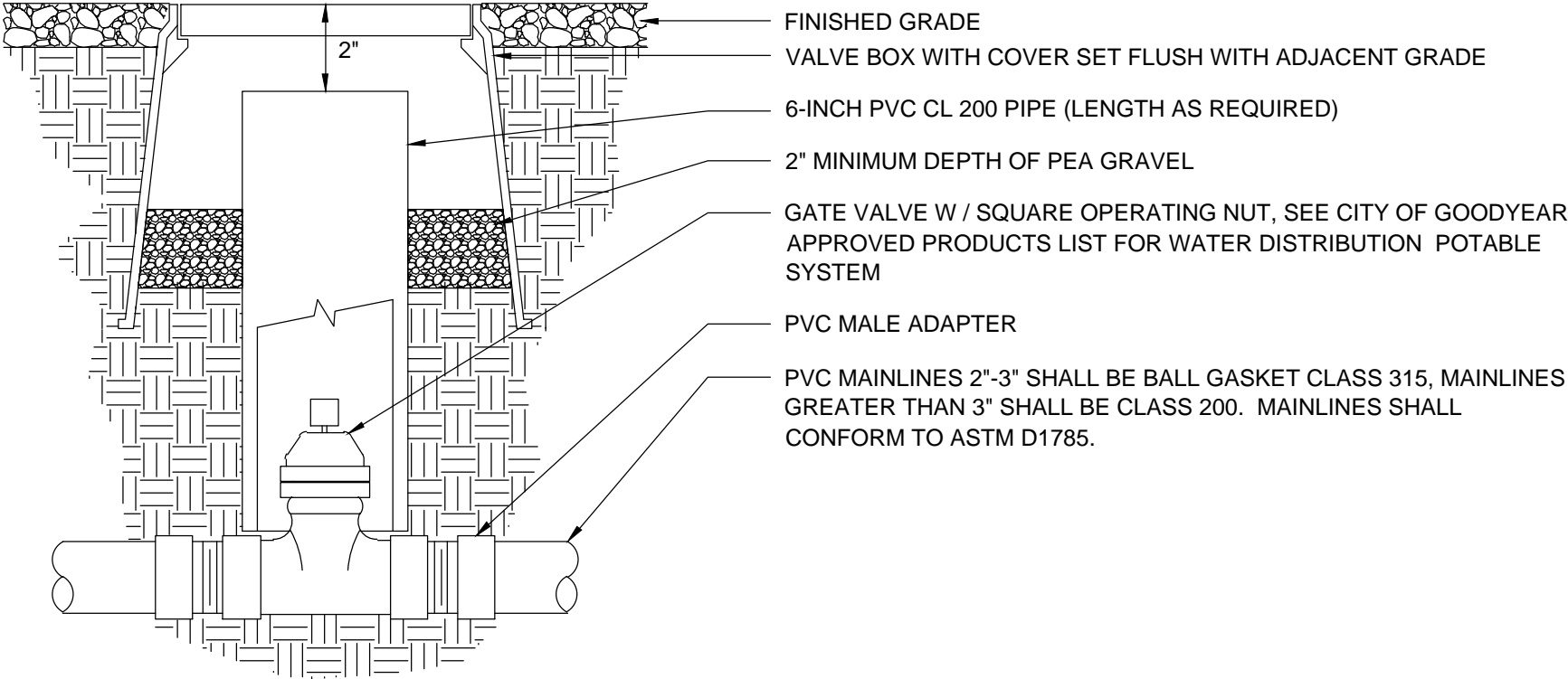
**NOTES:**

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2. BALL VALVE SHALL MATCH NOMINAL SIZE OF MAINLINE PIPE.



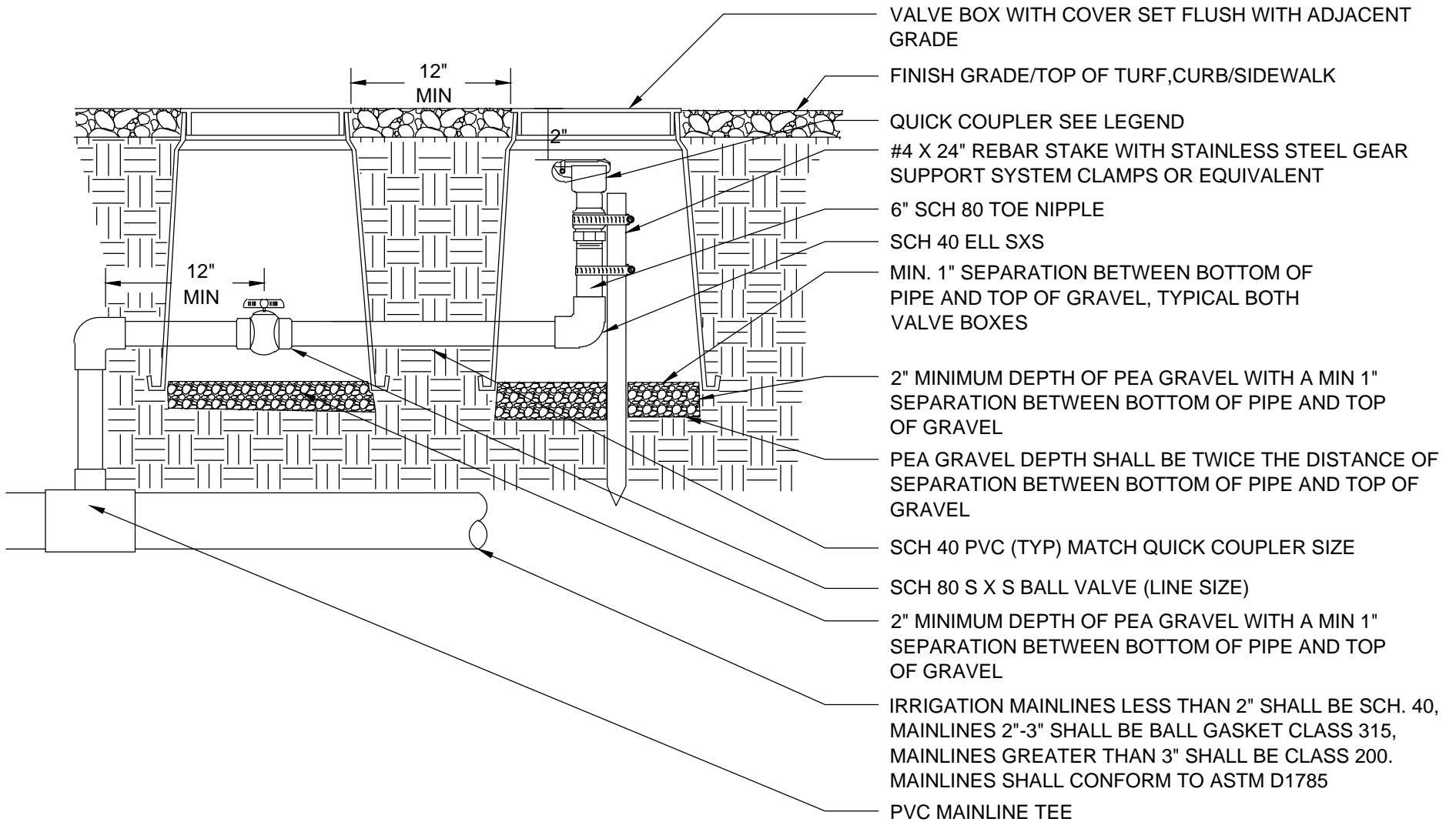
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2. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.



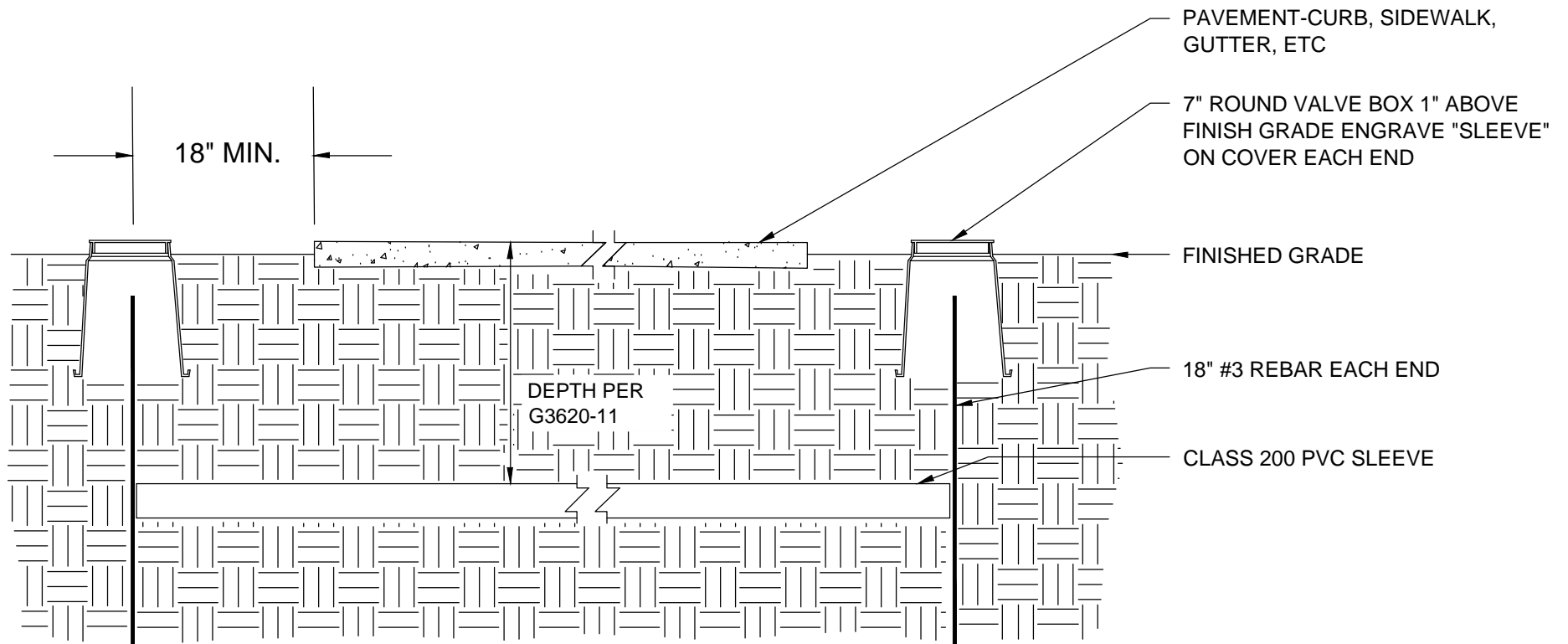
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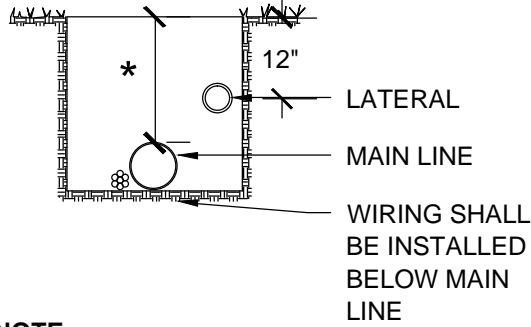


**NOTES:**

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2. VALVE BOX AND REBAR MARKERS TO BE INSTALLED WHEN LANDSCAPE AND IRRIGATION IS A FUTURE CONTRACT.

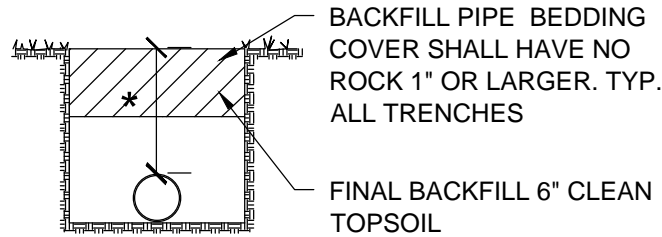


**MAINLINE AND WIRING WITH LATERAL**



**NOTE:**  
TAPE AND BUNDLE TUBING OR WIRING AT 10' INTERVALS.

**MAINLINE AND WIRING WITHOUT LATERAL**



* PIPE DIA	TRENCH DEPTHS
3/4" - 2"	18"
2-1/2" - 3"	24"
4" - 6"	36"
8" - 12"	48"

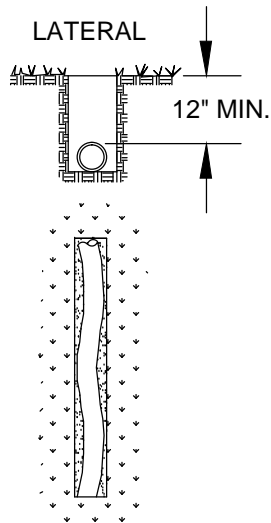
**NOTES:**

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2. NO TRENCH TO BE CLOSER THAN 18" TO CONCRETE SIDEWALK CURBS, ELECTRIC POLES, J-BOXES, ELECTRIC CABINETS, STREET SIGNALS, SIGNS, ETC.
3. WHEN MULTIPLE MAIN OR LATERAL LINES RUN IN THE SAME TRENCH MAINTAIN 3" HORIZONTAL CLEARANCE BETWEEN PIPES.
4. DETAIL APPLIES WHEN A 2" OR LARGER MAINLINE IS IN A SEPARATE TRENCH.

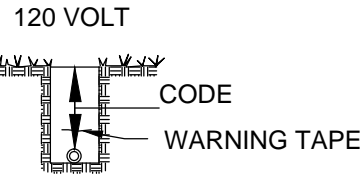
**WIRE LEGEND**

- RED-CONTROLLER
- BLUE-MASTER VALVE
- BLACK/ORANGE-FLOW METER
- WHITE-COMMON
- GREEN-EXTRA

CONTROL WIRING NOT IN MAINLINE TRENCH

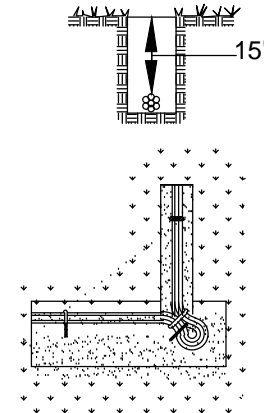


**NOTE:**  
ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES WITH A 2" MIN. CLEARANCE BETWEEN PIPES AND PIPES AND SIDE OF TRENCH.



**NOTE:**  
ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODE.

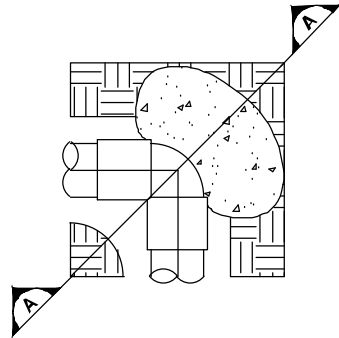
APPROVED "ELECTRICAL POWER WIRES BELOW" WARNING TAPE SHALL BE INSTALLED 12" ABOVE ALL POWER WIRING IN TRENCHES.



**NOTE:**  
TIE A LOOSE 20" LOOP IN ALL WIRING AT CHANGES OF DIRECTION GREATER THAN 30°. UNTIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.

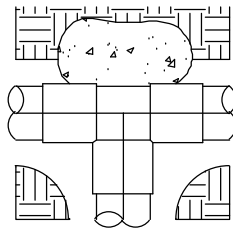
**NOTES:**

1. MINIMUM THRUST BLOCK AREAS ARE BASED ON A SOIL BEARING CAPACITY OF 3000 LBS/SF
2. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.
3. THRUST BLOCK SHALL BE MAG SECT. 725-CLASS C.
4. MAINLINE PIPING 4" AND LARGER SHALL HAVE MEGA/LUG JOINT RESTRAINTS INSTALLED AT ALL FLOW DIRECTION CHANGES (CONCRETE THRUST BLOCK NOT REQUIRED IF BELL END HARNESS JOINT RESTRAINTS ARE INSTALLED PER MAG 303-1 AND 303-2).



**90° ELL**

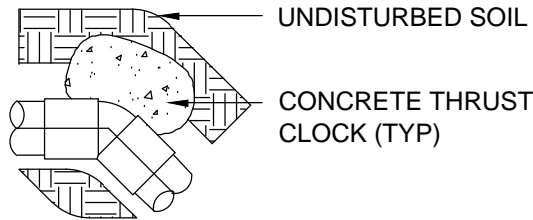
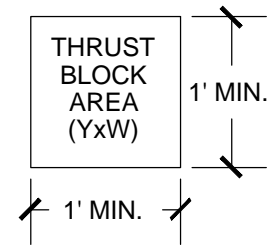
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**TEE**

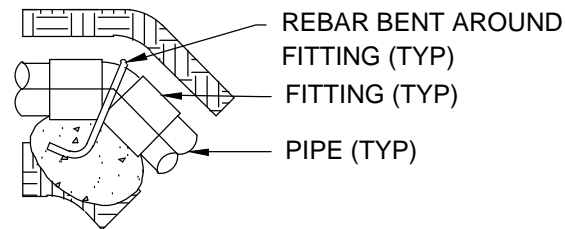
SCALE: NTS

MINIMUM THRUST BLOCK AREA (YxW)		
PIPE SIZE	IRRIGATION PIPE	
	TEE, DEAD END 90° BEND	45°, 22.5°
3"	2 SF	1 SF
4"	2 SF	1 SF
5" & LARGER	2 SF	1.5 SF
	PER MAG DETAIL 380	PER MAG DETAIL 380



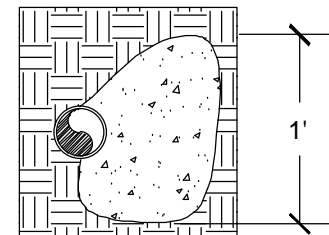
**45° ELL**

SCALE: NTS



**45° ELL (VERTICAL)**

SCALE: NTS



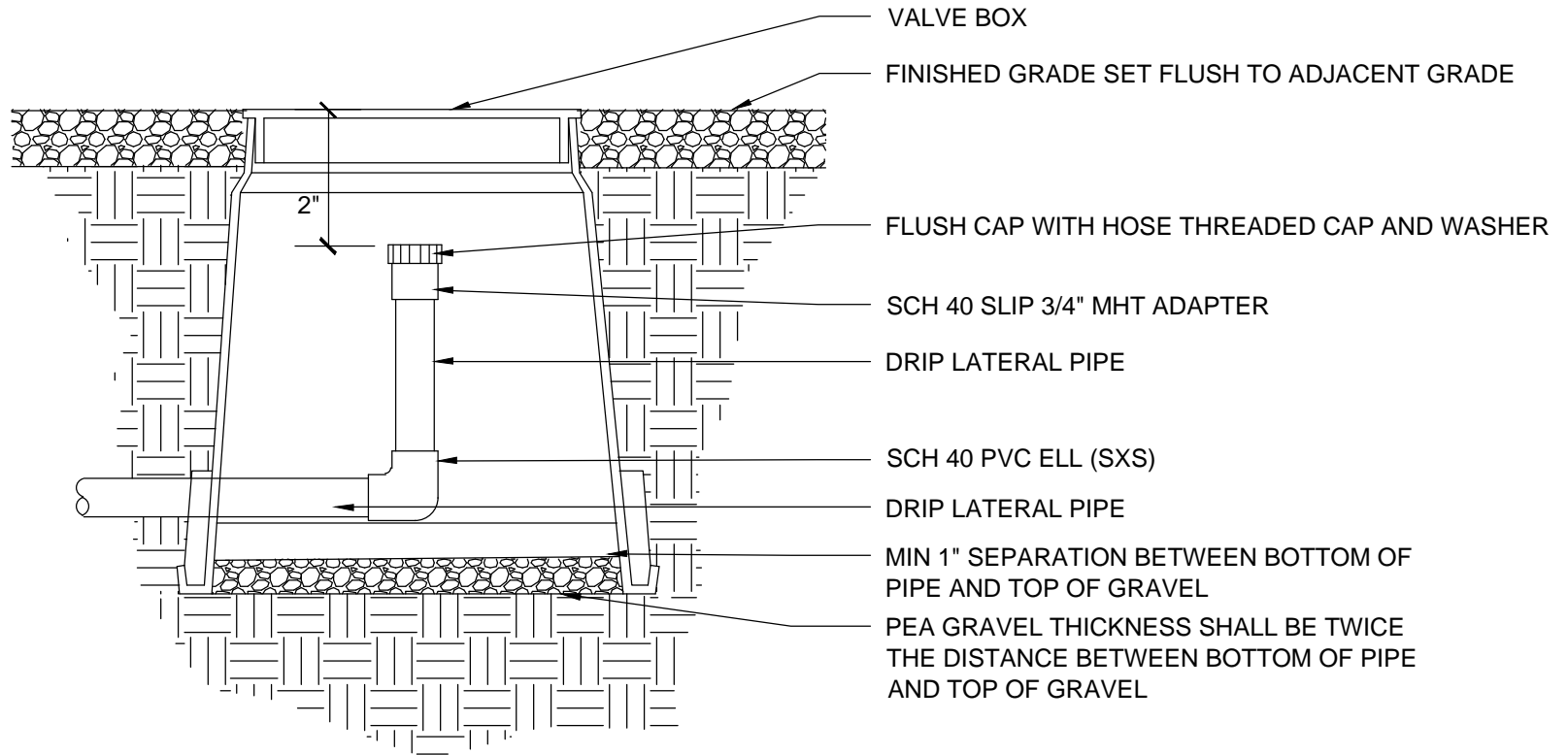
**SECTION**

**A-A**



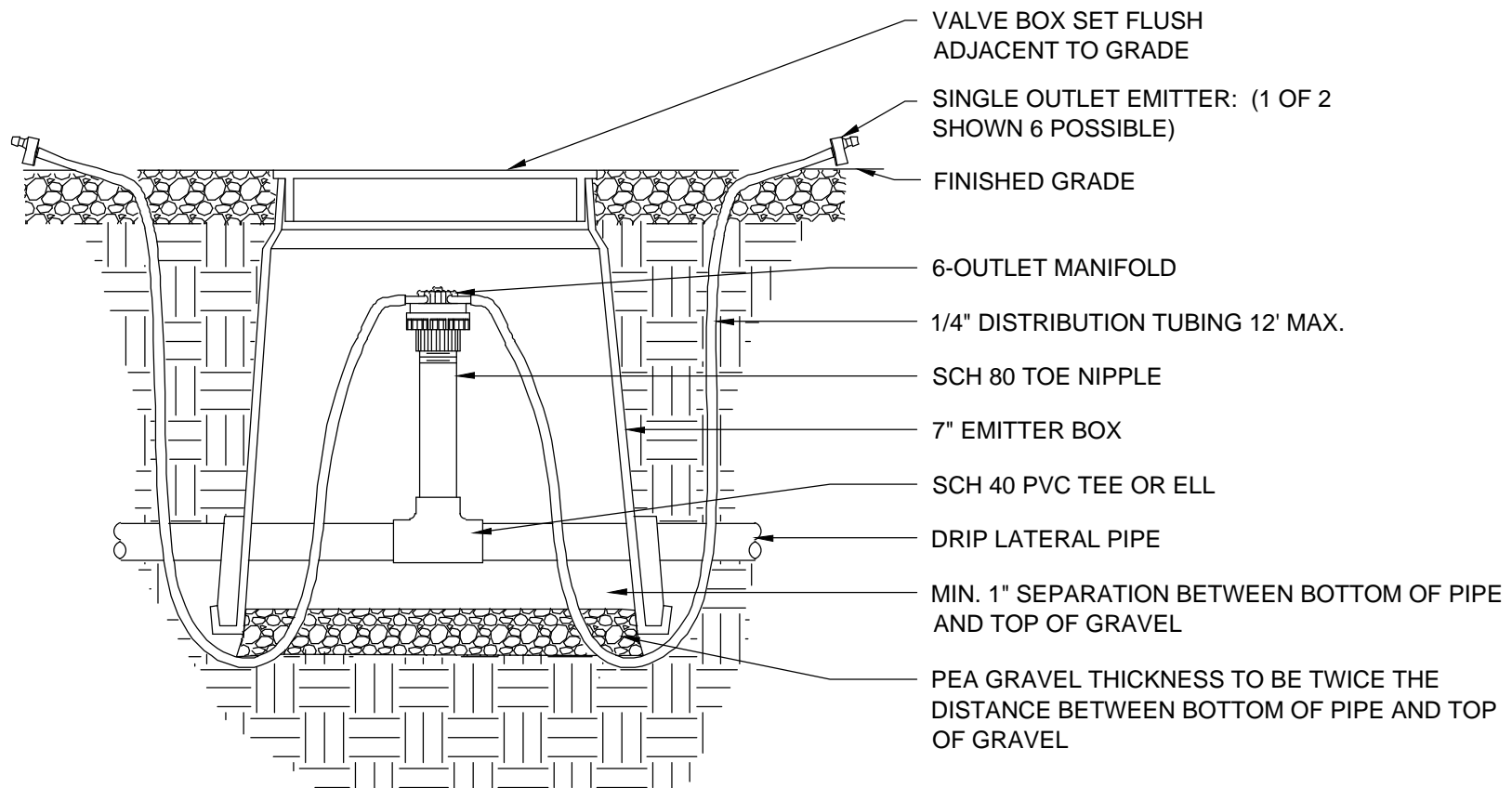
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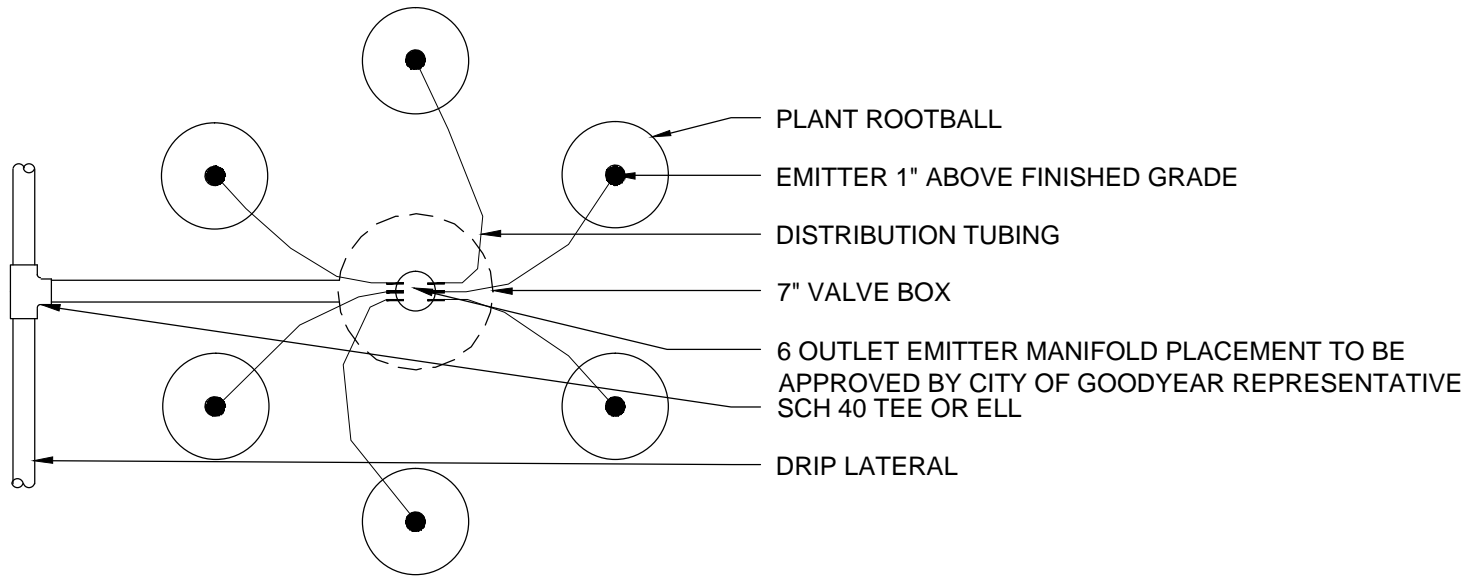
**NOTES:**

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2. EMITTER TUBE OUTLET SHALL BE LOCATED DIRECTLY OVER ROOT BALL FOR PLANTS.
3. EMITTER TUBE OUTLET FOR CACTI ACCENTS SHALL NOT BE PLACED DIRECTLY ON ROOT BALL BUT 4" TO 6" AWAY.
4. NUMBER OF EMITTER TUBES REQUIRED PER PLANT IS BASED ON PLANT SIZE. SEE EMITTER SCHEDULE.
5. ONE 6-ORIFICE MANIFOLD PER TREE. THE EMITTERS ARE PLACED EVENLY AROUND TREE PER CITY OF GOODYEAR STANDARD DETAIL G-3620-18. MANIFOLD PLACEMENT TO BE APPROVED BY CITY OF GOODYEAR REPRESENTATIVE.
6. MANIFOLD OUTLETS NOT USED SHALL BE PLUGGED TO THE SATISFACTION OF THE CITY OF GOODYEAR REPRESENTATIVE.
7. TREE MANIFOLD EMITTER VALVE BOX SHALL BE 5' MIN. FROM TREE TRUNK AND 12" FROM PAVEMENT EDGE.
8. EMISSION POINTS SHALL BE LOCATED UPHILL OF PLANT CENTERLINE AND SHALL DELIVER WATER DIRECTLY TO ROOT BALL (TYP.).



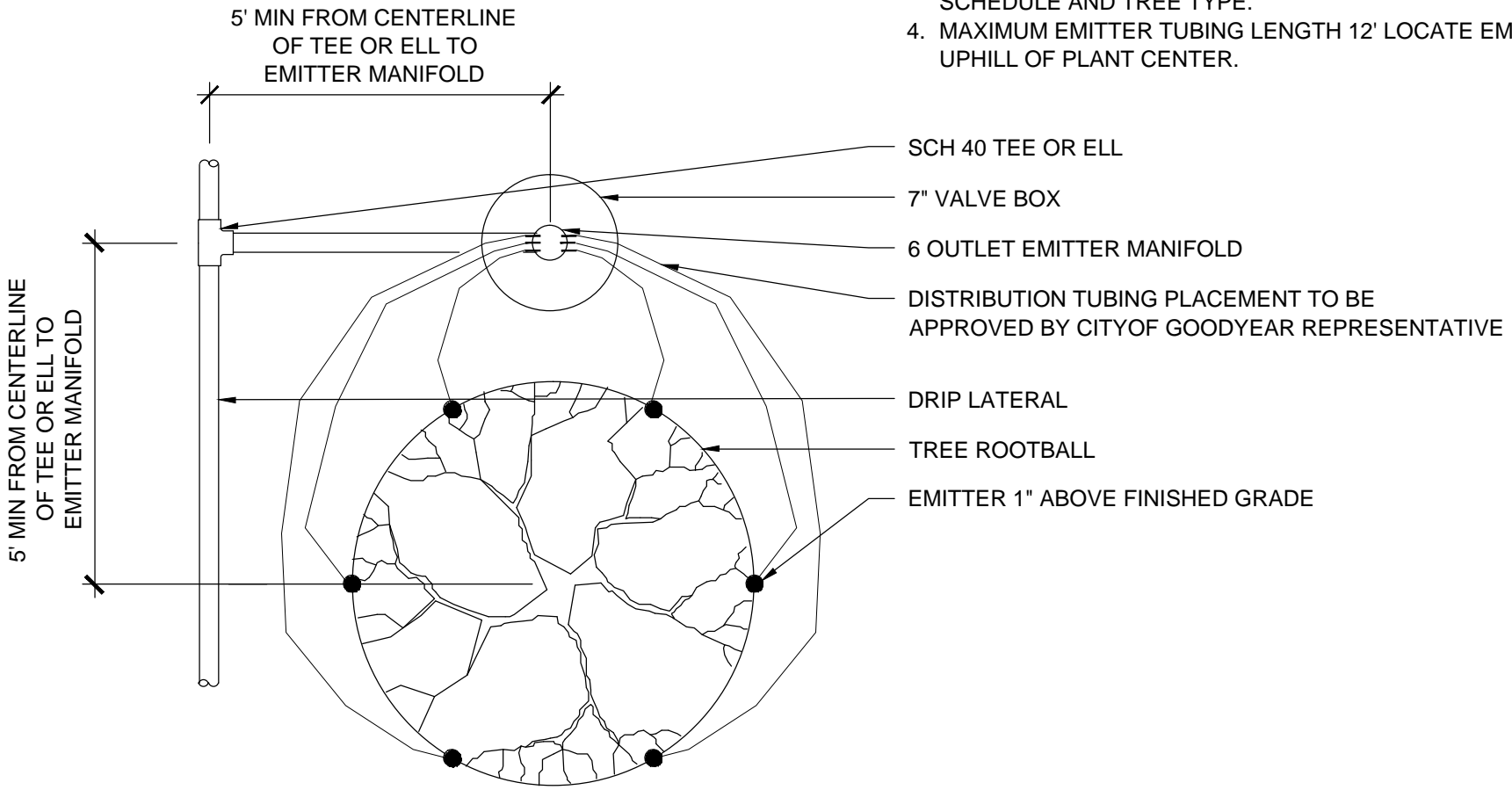
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2. EMITTER OUTLETS SHALL BE LOCATED TO DIRECT WATER FLOW TO MIDDLE OF ROOTBALL.
3. PROVIDE SPECIFIED NUMBER OF OUTLETS PER EMITTER SCHEDULE AND PLANT TYPE.
4. MAXIMUM EMITTER TUBING LENGTH 12' LOCATE EMITTERS UPHILL OF PLANT CENTER.



**NOTES:**

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2. EMITTER OUTLETS SHALL BE EQUALLY SPACED, AND LOCATED TO DIRECT WATER FLOW TO PERIMETER OF DRIP LINE AS WELL AS ROOT BALL.
3. PROVIDE SPECIFIED NUMBER OF OUTLETS PER EMITTER SCHEDULE AND TREE TYPE.
4. MAXIMUM EMITTER TUBING LENGTH 12' LOCATE EMITTERS UPHILL OF PLANT CENTER.



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