

DIVISION FIVE

STANDARDS FOR LANDSCAPING

CHAPTER I. GENERAL

Sec. 501-1 Purpose and Scope

This division establishes the minimum standards of design, materials, plants, and methods to be used in providing landscaping for developments in Kern County. Landscaping required by development or within a County right-of-way shall be maintained by an entity approved by the Director. A County Service Area (CSA) or Park District are examples of acceptable maintenance entities. All landscaping installed in County right-of-way shall require an encroachment permit from the Public Works Department.

Sec. 501-2 Procedures

The following procedures shall be used when landscaping is to be provided:

501-2.01 Maintenance entity/CSA shall be formed prior to approval of landscape plans.

501-2.02 Landscape plans shall be submitted to the Public Works Department for review and final approval. All Landscape plans and specifications shall be designed in compliance with Assembly Bill No. 1881 (Government Code Section 6551), The California Code of Regulations – Title 23 Waters – Division 2 – Department of Water Resources – Chapter 2.7 – Model Water Efficient Landscape Ordinance (MWEL) and State and/or local regulations and ordinances relating to water conservation. Landscape plans shall be approved by the Director of Public Works and the maintenance entity.

501-2.03

- a. Landscape Plans shall identify and label all hydrozones, recreational areas, pervious & non-pervious hardscapes, permanent best management practices, graywater discharge systems and any areas irrigated with recycled water. Landscape Plans must include a Water Efficient Landscape Worksheet which contains two sections (see sample worksheet in Appendix 'B'):
 1. A Hydrozone Information Table (see Appendix 'B', Section 'A') for the landscape project; and
 2. A Water Budget Calculation (see Appendix 'B', Section 'B') for the landscape project. For the calculation of the Maximum Applied Water Allowance and Estimated Total Water Use, a project

applicant shall use the ETO values from the Reference Evapotranspiration Table in Appendix 'A' for geographic areas not covered in Appendix 'A', use data from other cities located nearby in the same reference evapotranspiration zone, as found in the CIMIS Reference Evapotranspiration Zones Map, Department of Water Resources, 1999.

b. Water budget calculation shall adhere to the following requirements:

1. The plant factor used shall be from the "Water Use Classification of Landscape Species" website (WUCOLS). The plant factor ranges from 0 to 0.1 for very low water use plants, 0.2 to 0.3 for low water use plants, from 0.4 to 0.6 for moderate water use plants and from 0.7 to 1.0 for high water use plants.
2. All water features shall be included in the high-water use hydrozone and temporarily irrigated areas shall be included in the low water use hydrozone.
3. All Special Landscape Areas shall be identified and their water use calculated as described below.
4. Evapotranspiration Adjustment Factor (ETAF) is based on the plant factors and irrigation methods selected. ETAF shall not exceed 0.45 exclusive of Special Landscape Areas. ETAF for Special Landscape Areas shall not exceed 1.0.
5. Estimated Total Water Use (ETWU) is calculated based on the plants used, irrigation method selected, Conversion Factor and Eto. The total ETWU must be less than the calculated total MAWA.

c. Maximum Applied Water Allowance (MAWA);

The Maximum Applied Water Allowance shall be calculate using the equation:

$$\text{MAWA} = (\text{ETo})(0.62)[(0.45 \times \text{LA}) + (0.55 \times \text{SLA})]$$

Where:

MAWA – Maximum Applied Water Allowance (gallons per year)

ETo = Reference Evapotranspiration (inches per year)

0.62 – Conversion Factor (to gallons)

0.45 – ETAF Adjustment Factor (to gallons)

LA – Landscape Area (square feet)

0.55 – Additional Water Allowance for SLA (1-ETAF)

SLA – Special Landscape Area (square feet)

501-2.04 Provisions from Division One, Standards for Streets, Chapter VI shall be met.

501-2.05 The plans shall clearly show the location of all valves, meters, backflow preventers, controllers, sprinkler heads, points of connection to the water system and other such equipment. These exact locations shall be indicated on the "As-Built Record Drawings" to allow easy location. The As-Built Record Drawings shall be prepared by the Landscape engineer/architect.

The plans shall clearly show existing and proposed streetlights, utility poles, utility vaults and fire hydrants.

501-2.06 The plans shall be prepared on mylar or similar material on sheets sized to 24 inches X 36 inches.

Title sheet shall identify the development, contain a vicinity map, a key map (scale 1 inch = 200 feet), signature blocks for the Landscape Architect and the Kern County Public Works Director.

The balance of the drawings shall be drawn at a scale not less than 1 inch = 20 feet.

Where shrubs or trees are to be planted, the sight distance lines, per Plate No. T-7 shall be overlaid on the plans to show that the plants and other improvements do not interfere with clear zones. See Division One, Chapter VIII, Section 108-1 Landscaping, for sight distance requirements.

CHAPTER II. IRRIGATION SYSTEM

Sec. 502-1 General Design Notes

502-1.01 All electrical wiring, controls, and devices shall be U.L. listed, and so labeled. Other approval organizations will be subject to review and approval prior to installation.

502-1.02 The landscape system shall be designed to properly function from service pressure without the use of pumps.

502-1.03 Sprinkler heads shall be selected to limit the amount of overspray on walls, sidewalks, or pavement.

502-1.04 All sprinklers and quick coupling valves shall be installed using double swing joints.

502.105 A master irrigation plan shall be submitted for phased development.

502.106 Irrigation system shall be designed to minimize the number of meters and backflow devices.

Sec. 502-2 As-Built Drawings

502-2.01 Provide a complete "As-Built" record set of prints which shall be corrected daily and show every change from the original drawings and the exact "As-Built" locations, sizes, and kinds of equipment. The "As-Built" prints shall be a set of cronar or similar mylar material. All work shall be in waterproof, red ink and applied to the mylar by a technical pen made expressly for use on mylar material in a neat and complete legible manner.

502-2.02 The As-Built shall be dimensioned from two permanent points of reference, i.e., building corners, sidewalks, or road intersections, etc., and accurately show the location of the following items:

- a. Connection to existing water lines.
- b. Connection to existing electrical power and irrigation controller.
- c. Gate valves, remote control valves, quick couplings and related equipment.
- d. Routing and/or directional turns of sprinkler pressure lines and control wiring (dimension max. 100 feet along routing).

Sec. 502-3 Controller Charts

Provide three controller charts for each controller supplied, one is to be attached in the controller and the other turned over to the County in the Operation and Maintenance Manuals. Chart attached to controller shall be laminated to prevent weather damage.

The chart shall indicate the area controlled by the automatic controller and shall be the maximum size which the controller door will allow.

Sec. 502-4 Operation and Maintenance Manuals

Prepare and deliver prior to completion of construction, two (2) hard cover three (3) ring binders containing the following information:

502-4.01 Index sheet stating landscape Contractor's address and telephone number, list of equipment with contacts for manufacturer's representative.

502-4.02 Catalog and part sheets on all material and equipment installed.

- 502-4.03** Complete operating and maintenance instructions on all major equipment.

CHAPTER III. MATERIALS

Sec. 503-1 PVC Pipe and Fittings

- 503-1.01** Pressure Main Line Piping and Fittings: Sizes two and one half (2-1/2) inches or larger shall be P.V.C. Class 200 Ring Tite or approved equal.
- 503-1.02** Pressure Main Line Piping and Fittings: Sizes two (2) inches and smaller shall be Schedule 40 P.V.C.
- 503-1.03** Non-pressure laterals shall be minimum thickness Schedule 40 P.V.C.
- 503-1.04** P.V.C. nipples shall be Schedule 80 with molded threads.
- 503-1.05** All pipe and fittings shall conform to specific requirements as follows:
- a. P.V.C. Pipe: Manufactured from virgin polyvinyl chloride compound in accordance with ASTM D1784 or ASTM D2241, Cell classification 12454B.
 - b. P.V.C. Fittings (solvent weld or thread): Standard weight, schedule 40, side gated, injection molded P.V.C. complying with ASTM D1784, cell classification 13454B, including threads when required.

Sec. 503-2 Electrical (Low Voltage)

- 503-2.01** Wiring sizing shall be a minimum of #14 direct burial AWG-UF, 600-volt wire, insulation thickness 3/64 inch, utilizing low density high molecular weight polyethylene insulation. Wiring shall be color coded with the common wire to be white and all others in different colors. An extra wire for every six (6) stations shall be looped in each valve box and housed in a box.
- 503-2.02** Splices, where necessary or permitted, shall be waterproofed using connectors which are UL 486D compliant.
- 503-2.03** All wiring placed under concrete or pavement shall be placed in a sleeve with pull boxes at each end.

Sec. 503-3 Gate Valves

- 503-3.01** Gate valves three (3) inches and smaller: ASTM B62 brass body, 150-pound saturated steam rated; with screwed joints; non-rising stem; screwed bonnet, solid disc. Provide with handwheel.
- 503-3.02** All gate valves shall be installed with schedule 80 unions to allow easy removal and placed in an approved valve box.

Sec. 503-4 Backflow Prevention Units

- 503-4.01** Backflow preventer shall be designed to operate on a "reduced pressure" principle; equipped with gate valves, "Wye" strainers of 125# class brass with 40 mesh monel screen and field test cocks acceptable to the water purveyor and the Environmental Health Services Department.
- 503-4.02** Prior to acceptance, the backflow prevention unit must be tested, and the test results submitted to, and approved by, the Environmental Health Services Department.
- The backflow preventer shall be protected by a water protection unit mounted to the concrete slab and shall have adequate insulation blanket attached to the unit.

Sec. 503-5 Automatic Controller

Automatic controllers shall be the fully automatic operation type capable of independently operating the number of stations indicated.

- 503-5.01** Wall mount type in a housing with locking hinged cover.
- 503-5.02** Fuse and chassis ground all controller components.
- 503-5.03** The controller shall be mounted inside a stainless steel, vandal-resistant and weather-resistant enclosure. The enclosure shall include a predrilled backboard with 117-volt duplex outlet. Metal conduit shall run from the 117-volt supply to the controller housing. All power within the housing shall be properly phased.
- 503-5.04** Controller must be UL approved. Each valve shall be controlled by a separate station.
- 503-5.05** The electric meter may be installed in the above cabinet or a separate, approved vandal-resistant enclosure.

Sec. 503-6 Remote Control Valves

- 503-6.01** Valve type shall be spring-loaded, packless diaphragm activated, normally closed type with plastic body, equipped with adjustable flow control.
- 503-6.02** Valve solenoid shall be 24-volt A.C. 45-watt maximum, 500 milli-amp maximum surge, corrosion-proof, stainless steel construction, epoxy encapsulated to form a single integral unit.
- 503-6.03** Provide bleeder valve to permit operation in the field without power at the controller.
- 503-6.04** All valves shall be installed with Schedule 80 unions to provide for easy maintenance.
- 503-6.05** Identification tags shall be attached to each remote-control valve, showing the number that corresponds with the controller sequence. Tags shall have the station number displayed with one-half (1/2) inch letters.

Sec. 503-7 Small Lawn Sprinkler Heads

Heads shall have screw adjustments.

Nozzles shall rise a minimum of six (6) inches.

Sec. 503-8 Rotary Sprinkler Heads

Rotary sprinkler heads shall be gear driven with minimum six (6) inch pop-up sprinkler heads.

Part circle heads shall have variable arc setting capability.

Sec. 503-9 Quick Coupling Valves

- 503-9.01** Type: Heavy-duty, brass construction, with stainless steel internal valve spring, using a three-fourths (3/4) inch valve key, and shall have a locking rubber cover.
- 503-9.02** Quick Coupling Valves shall be spaced no more than 100 feet apart or 50 feet from either end of landscape sections.
- 503-9.03** All Quick Coupling Valves shall be installed in approved round valve boxes.

Sec. 503-10 Small Shrubbery Sprinkler Heads

12-inch minimum pop-up type body shall be used. Heads shall be fully adjustable.

Sec. 503-11 Valve Boxes

503-11.01 Valve boxes shall be fabricated from a durable plastic material with UV inhibitors, resistant to weather, sunlight and chemical action of soils.

503-11.02 Gate valve boxes shall be round plastic boxes with an overlapping, lockable lid.

503-11.03 Remote control valve boxes shall be rectangular plastic boxes with an overlapping, lockable lid.

Sec. 503-12 Installation - General

503-12.01 All plastic pipe and fittings shall be installed in accordance with manufacturer's instructions for same.

503-12.02 Line Clearance: All lines shall have a minimum clearance of six (6) inches from each other and from lines of other trades. Parallel lines shall not be installed directly over one another.

503-12.03 Pressure lines shall have a metallic detector tape placed above them in accordance with manufacturer's recommendation.

503-12.04 Provide minimum coverage as follows:

Pressure supply lines (two and one half - (2-1/2) inches and smaller):
18 inches

Pressure supply lines (three (3) inches and larger): 30 inches

Non-pressure lines: 12 inches

Control wire: 18 inches

All wire and pipes under concrete or paving shall be at least 30 inches deep and sleeved.

503-12.05 All lines placed under paving or concrete shall be contained in a Schedule 40 P.V.C. sleeve. The size of the sleeve shall be the minimum size which will allow the interior pipe or control wire to be freely removed and replaced.

Sec. 503-13 Field Quality Control - Adjustment of the System

503-13.01 The Contractor shall adjust all sprinkler heads and valves for optimum performance and to prevent as much as possible any overspray onto walks and roadways.

503-13.02 Testing of Irrigation System

Test all pressure lines under hydrostatic pressure of 150 pounds per square inch and prove watertight. Testing of pressure main lines shall occur prior to installation of electric control valves, quick couplers or any other equipment that might prevent a proper test from being performed. All piping under paved areas shall be tested under a hydrostatic pressure of 150 pounds per square inch, and proved water-tight, prior to paving. Pressure in lines shall be sustained for not less than two (2) hours. If leaks develop, replace joints and repeat test until entire system is proven watertight.

Sec. 503-14 Plant Material

503-14.01 Soil

Engineer shall submit to the County for approval a soil nutrient report; this requirement may be waived if the County has on file acceptable information to indicate that it is not warranted. The report shall contain recommendations of soil amendments, fertilizers, as well as an indication of the soil's suitability for the purpose intended.

503-14.02 Plants

Turf will only be allowed under certain circumstances and if in compliance with MWELO, this must be approved by the Director of Public Works. Trees shall not be a type which have a lot of surface roots or drop fruit or are a maintenance problem. Trees when planted near concrete or paving shall be planted with root guards. All plants/trees must be chosen from WUCOLS Database (Water Use Classification of Landscape Species). Trees which exceed a four (4) inch diameter trunk at 10 years growth shall not be placed in the right-of-way without specific approval from the Director of Public Works or his representative. No trees shall be planted within 20 feet of a streetlight pole base.

Sec. 503-15.01 Multi-Use Trail Fence

Trail fence shall be heavy duty two rail white vinyl fence designed for agricultural uses, or an alternative approved by the Engineer. Fence rails shall be nominal two (2) inches x six (6) inches x 16 feet ribbed type, with minimum 0.11-inch wall thickness, installed with a minimum

24" bury at eight (8) feet on center. Use aluminum inserts at all end, corner and gate posts (both latch and hinge sides) or fill with concrete. See Plate No. L-15 for details.

Sec. 503-16.01 Stamped Concrete

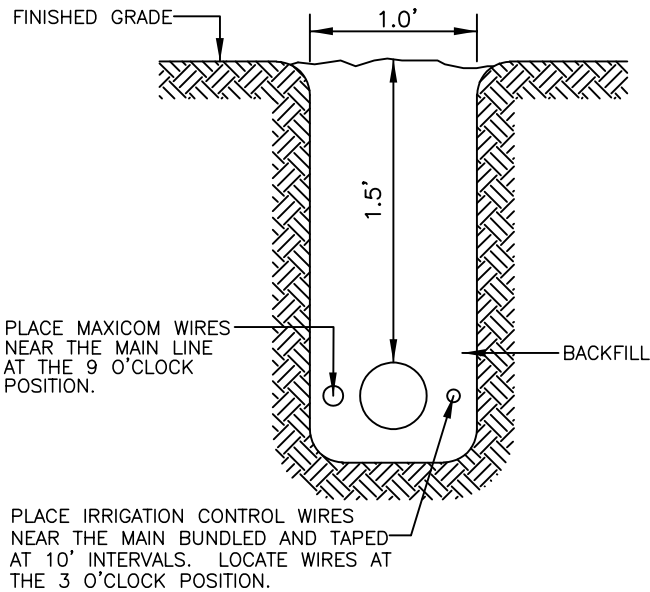
Stamped or imprinted concrete shall require proposed design provided and approved with Landscape Plans. Design mix shall include design of stamp or imprinting, color and other relevant specifications. If vapor retarding membrane is not used, the base shall be moistened. Concrete shall be constructed with the use of forms in accordance with ACI 347. Concrete shall be placed in accordance with ACI 301, 302 and 304. If using non-integral color, apply color hardener prior to application of pattern. Apply hardener at rate by that recommended by the manufacturer, evenly to the surface of the fresh concrete by the dry-shake method. If applied in two or more shakes, float after each shake and trowel concrete only after final floating. While concrete is still in its plastic state, apply the tool/texture pattern to the surface of the concrete. Properly tamp tools into the surface to achieve the required texture, with uniformity of pattern and depth of stamping. Release materials shall be applied to the troweled surface prior to stamping/imprinting. Place curing compound on exposed concrete surfaces immediately after finishing in accordance with the manufacturer's instructions. If required per design, apply secondary stain treatment and apply finish sealer per approved design. Immediately after placement, protect concrete from premature drying, excessive temperatures and mechanical damage.

CHAPTER IV. MAINTENANCE

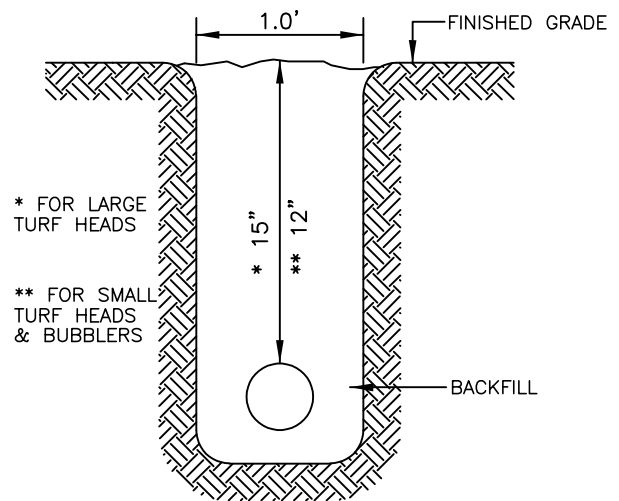
Sec. 504-1 Maintenance

Maintenance of the system is the responsibility of the Developer until such time as the maintenance entity/CSA has collected sufficient funds to operate and maintain the system. Prior to the entity/CSA beginning to maintain the system, the Developer shall replace all plants which are not in healthy condition, readjust all sprinklers and make all repairs to the system.

A one (1) year's maintenance bond is required prior to acceptance of the landscaping by the maintenance entity.



(D) MAIN LINE



(E) LATERAL LINE

NOTES:

1. ALL ELECTRICAL WIRING AND WATER LINES SHALL BE INSTALLED 2.5' DEEP IN A SCHEDULE 40 PVC CONDUIT WHEN CROSSING ROADWAYS OR UNDER ANY HARD SURFACES. PULL BOXES SHALL BE PLACED AT EACH END FOR ELECTRICAL WIRE RUNS.
2. IF MORE THAN ONE LINE IS INSTALLED PER TRENCH, PROVIDE 0.5' HORIZONTAL AND VERTICAL SEPARATION.
3. ALL PVC SOLVENT (GLUE) SHALL BE #711 (PRIMER IS REQUIRED ON MAIN LINE ONLY).
4. LANDSCAPE AND IRRIGATION IMPROVEMENTS WITHIN THE DEDICATED STREET RIGHT-OF-WAY MAY REQUIRE AN OPEN STREET PERMIT. CHECK WITH THE KERN COUNTY PUBLIC WORKS DEPARTMENT FOR REQUIREMENTS.
5. WHERE OPEN STREET CUTS ARE REQUIRED TO INSTALL VARIOUS IRRIGATION LINES AND/OR WIRES, ALL STREET PATCHING WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH COUNTY STANDARD R-67, A & B/ R-68 OR AS DIRECTED BY THE ENGINEER.
6. WHEN THERE IS A CHANGE IN FITTED DIRECTION, ALL IRRIGATION MAIN LINES LARGER THAN 2.0" IN DIAMETER PRESSURE LINES SHALL BE SECURED WITH CONCRETE THRUST BLOCKS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS DIRECTED BY THE ENGINEER. SEE COUNTY STANDARD PLATE L-7 FOR THRUST BLOCK DETAIL.
7. ALL IRRIGATION LATERAL LINES SHALL BE CLASS 200 LINE PVC AND SIZED AS SHOWN ON THE PLANS. IF A LATERAL IS LOCATED UNDER A HARD SURFACE, SCHEDULE 40 PVC IS REQUIRED.
8. ALL IRRIGATION MAINLINES 2.0" IN DIAMETER AND LESS SHALL BE SCHEDULE 40 PVC. IRRIGATION MAINLINES GREATER THAN 2.0" IN DIAMETER SHALL BE CLASS 200 RING RITE PVC SCHEDULE 40 OR APPROVED EQUAL BY THE ENGINEER.
9. ANY AND ALL CHANGES SHALL BE APPROVED BY THE ENGINEER, PRIOR TO IMPLEMENTATION.
10. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST APPROVED EDITION OF THE CALIFORNIA PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
11. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
12. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBER, SIZE, QUANTITY, MANUFACTURER, AND PERFORMANCE REQUIREMENTS.



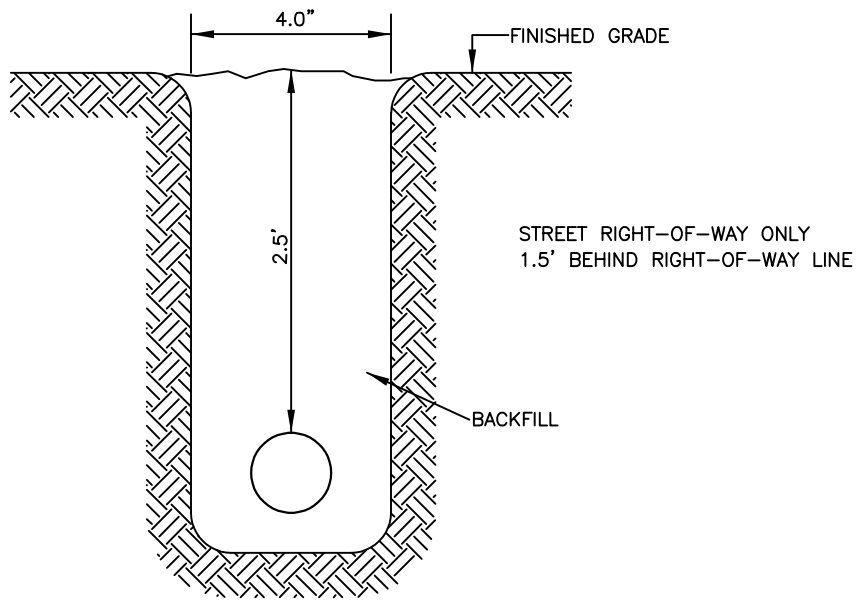
STANDARD DETAILS FOR PIPING, TRENCHING, AND BACKFILL

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

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DESIGNED BY: J.R.C.
DATE DRAFTED: 09/30/23
APPROVED BY: J.R.C.

PLATE NO.
L-2



(F) ELECTRICAL CONDUIT

NOTES:

1. ALL ELECTRICAL WIRING AND WATER LINES SHALL BE INSTALLED 2.5' DEEP IN A SCHEDULE 40 PVC CONDUIT WHEN CROSSING ROADWAYS OR UNDER ANY HARD SURFACES. PULL BOXES SHALL BE PLACED AT EACH END FOR ELECTRICAL WIRE RUNS.
2. IF MORE THAN ONE LINE IS INSTALLED PER TRENCH, PROVIDE 0.5' HORIZONTAL AND VERTICAL SEPARATION.
3. ALL PVC SOLVENT (GLUE) SHALL BE #711 (PRIMER IS REQUIRED ON MAIN LINE ONLY).
4. LANDSCAPE AND IRRIGATION IMPROVEMENTS WITHIN THE DEDICATED STREET RIGHT-OF-WAY MAY REQUIRE AN OPEN STREET PERMIT. CHECK WITH THE KERN COUNTY PUBLIC WORKS DEPARTMENT FOR REQUIREMENTS.
5. WHERE OPEN STREET CUTS ARE REQUIRED TO INSTALL VARIOUS IRRIGATION LINES AND/OR WIRES, ALL STREET PATCHING WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH COUNTY STANDARD R-67, A & B/ R-68 OR AS DIRECTED BY THE ENGINEER.
6. WHEN THERE IS A CHANGE IN FITTED DIRECTION, ALL IRRIGATION MAIN LINES LARGER THAN 2.0" IN DIAMETER PRESSURE LINES SHALL BE SECURED WITH CONCRETE THRUST BLOCKS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS DIRECTED BY THE ENGINEER. SEE COUNTY STANDARD PLATE L-7 FOR THRUST BLOCK DETAIL.
7. ALL IRRIGATION LATERAL LINES SHALL BE CLASS 200 LINE PVC AND SIZED AS SHOWN ON THE PLANS. IF A LATERAL IS LOCATED UNDER A HARD SURFACE, SCHEDULE 40 PVC IS REQUIRED.
8. ALL IRRIGATION MAINLINES 2.0" IN DIAMETER AND LESS SHALL BE SCHEDULE 40 PVC. IRRIGATION MAINLINES GREATER THAN 2.0" IN DIAMETER SHALL BE CLASS 200 RING TITE PVC SCHEDULE 40 OR APPROVED EQUAL BY THE ENGINEER.
9. ANY AND ALL CHANGES SHALL BE APPROVED BY THE ENGINEER, PRIOR TO IMPLEMENTATION.
10. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST APPROVED EDITION OF THE CALIFORNIA PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
11. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
12. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBER, SIZE, QUANTITY, MANUFACTURER, AND PERFORMANCE REQUIREMENTS.



**STANDARD DETAILS FOR ELECTRICAL
CONDUIT TRENCHING AND BACKFILL**

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

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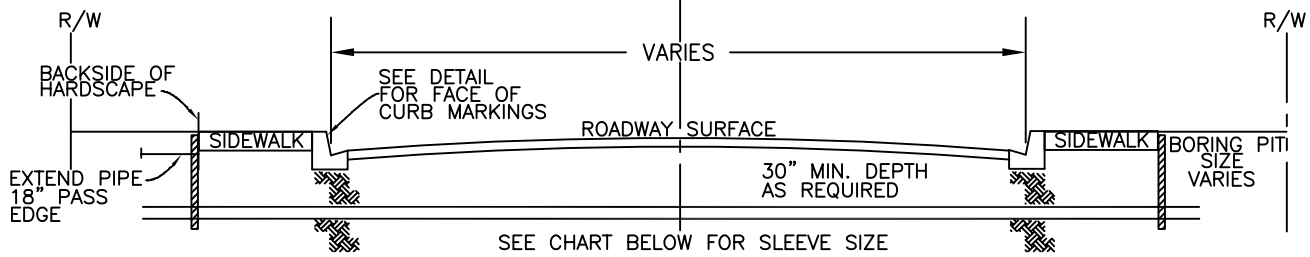
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APPROVED BY: J.R.C.

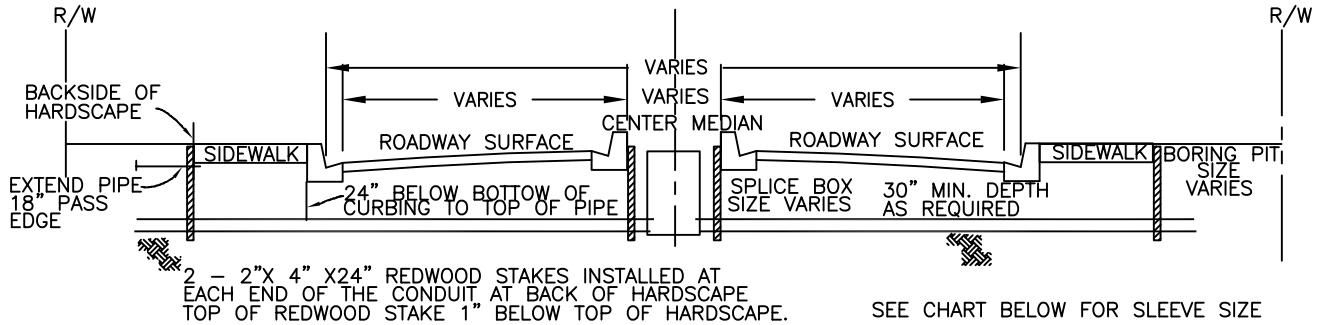
PLATE NO.

L-3



CONTRACTOR SHALL CONTACT UTILITY COMPANIES PRIOR TO BORING.

(H) IRRIGATION CROSSOVER (NO CENTER MEDIAN)



2 - 2"x 4" X24" REDWOOD STAKES INSTALLED AT EACH END OF THE CONDUIT AT BACK OF HARDSCAPE TOP OF REDWOOD STAKE 1" BELOW TOP OF HARDSCAPE.

SEE CHART BELOW FOR SLEEVE SIZE

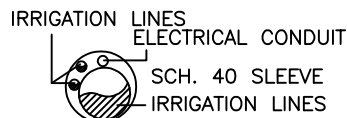
(I) IRRIGATION CROSSOVER (WITH CENTER MEDIAN)

(J) IRRIGATION SLEEVE CHART

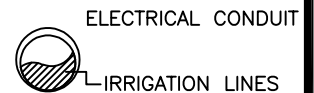
SLEEVE CHART INCREASE SLEEVE SIZE AS REQUIRED PER THIS CHART FOR MORE THAN ONE PIPE PER SLEEVE			
P.V.C. PIPE SIZE	SLEEVE SIZE		
	UNDER 18'	OVER 18' UNDER 18'	OVER 28'
1/2"	1"	1-1/4"	1-1/2"
3/4"	1-1/4"	1-1/2"	2"
1"	1-1/2"	2"	2"
1-1/4"	2"	2-1/2"	2-1/2"
1-1/2"	2-1/2"	2-1/2"	3"
2"	3"	3"	3"
2-1/2"	3"	3"	4"
3"	4"	5"	5"
3-1/2"	5"	5"	6"
4"	5"	6"	6"
5"	6"	8"	8"
6"	8"	8"	8"

GENERAL NOTES:

1. ALL PIPING AND FITTINGS SHALL BE SCH. 40 P.V.C. UNLESS APPROVED EQUAL BY THE ENGINEER.
2. WHERE CONDUIT(SLEEVE ONLY) IS INSTALLED, ONE PULL WIRE OR ROPE SHALL BE INSTALLED. THE LENGTH OF WIRE OR ROPE SHALL EXTEND 6' BEYOND EACH END OF THE CONDUIT. EACH CONDUIT (SLEEVE) SHALL BE CAPPED AT EACH END.
3. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
4. SEE APPROVED LANDSCAPE/IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBER, SIZE, MANUFACTURER AND PERFORMANCE REQUIREMENTS.
5. ALL TRANSITIONS FROM GALVANIZED PIPE TO PVC PIPE SHALL BE CONSTRUCTED WITH SCH. 40 FEMALE ADAPTER OR APPROVED EQUAL BY THE ENGINEER.
6. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE, MANUFACTURER'S RECOMMENDATION, SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
7. ANY AND ALL CHANGES SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
8. THE METHOD USED FOR BORING SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO START OF OPERATION.
9. VERIFY ALL MEASUREMENTS IN THE FIELD.
10. VERIFY SPECIFIC SITE CONDITIONS IN THE FIELD.



MORE THAN ONE PIPE PER SLEEVE



ONE PIPE PER SLEEVE

ROUTE PIPE AS REQUIRED PER THE APPROVED LANDSCAPE/IRRIGATION PLANS



STANDARD DETAILS FOR IRRIGATION SLEEVE(S)

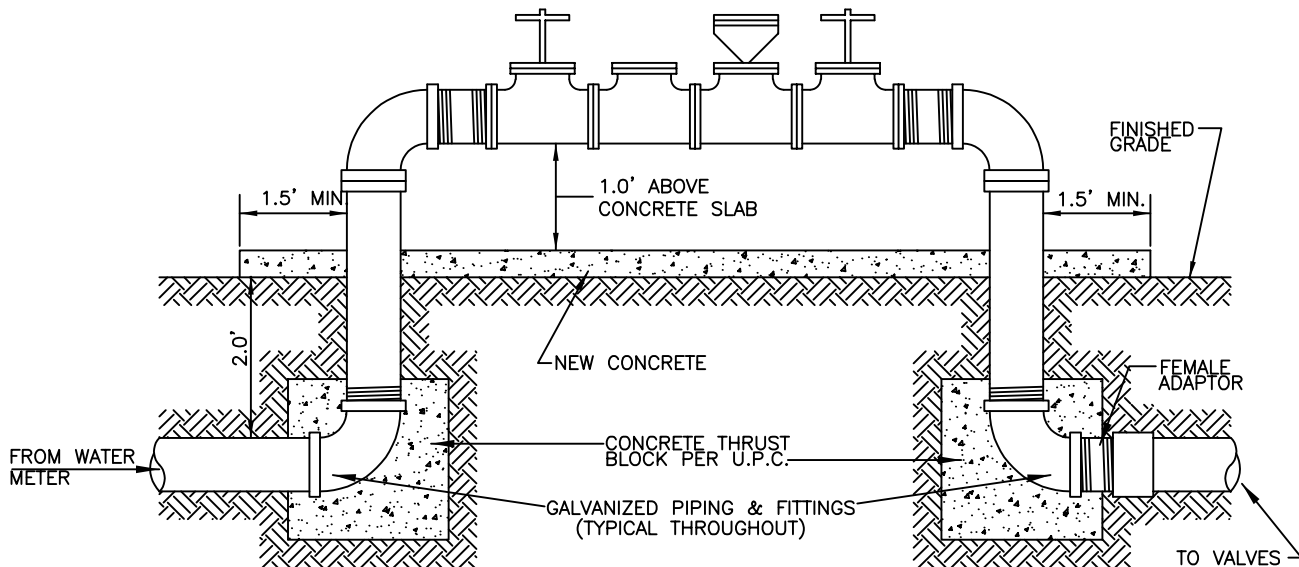
COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

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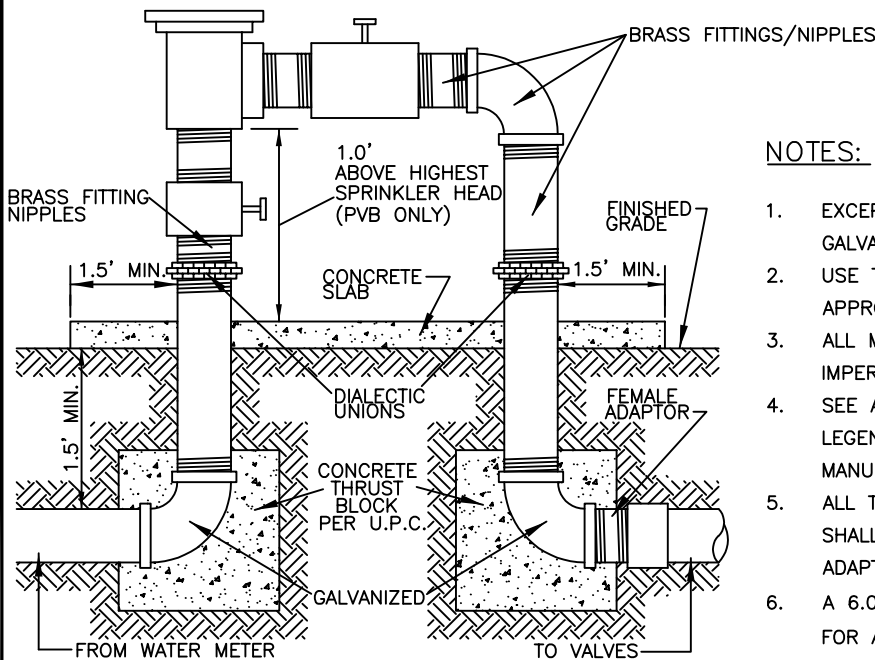
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APPROVED BY: J.R.C.

PLATE NO.

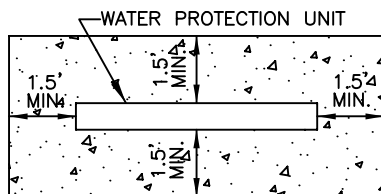
L-4



(G) DOUBLE CHECK OR REDUCED PRESURE BACKFLOW PREVENTER
(GREATER THAN 2.0" DIA.)



(H) BACKFLOW PREVENTER (2.0" AND LESS)

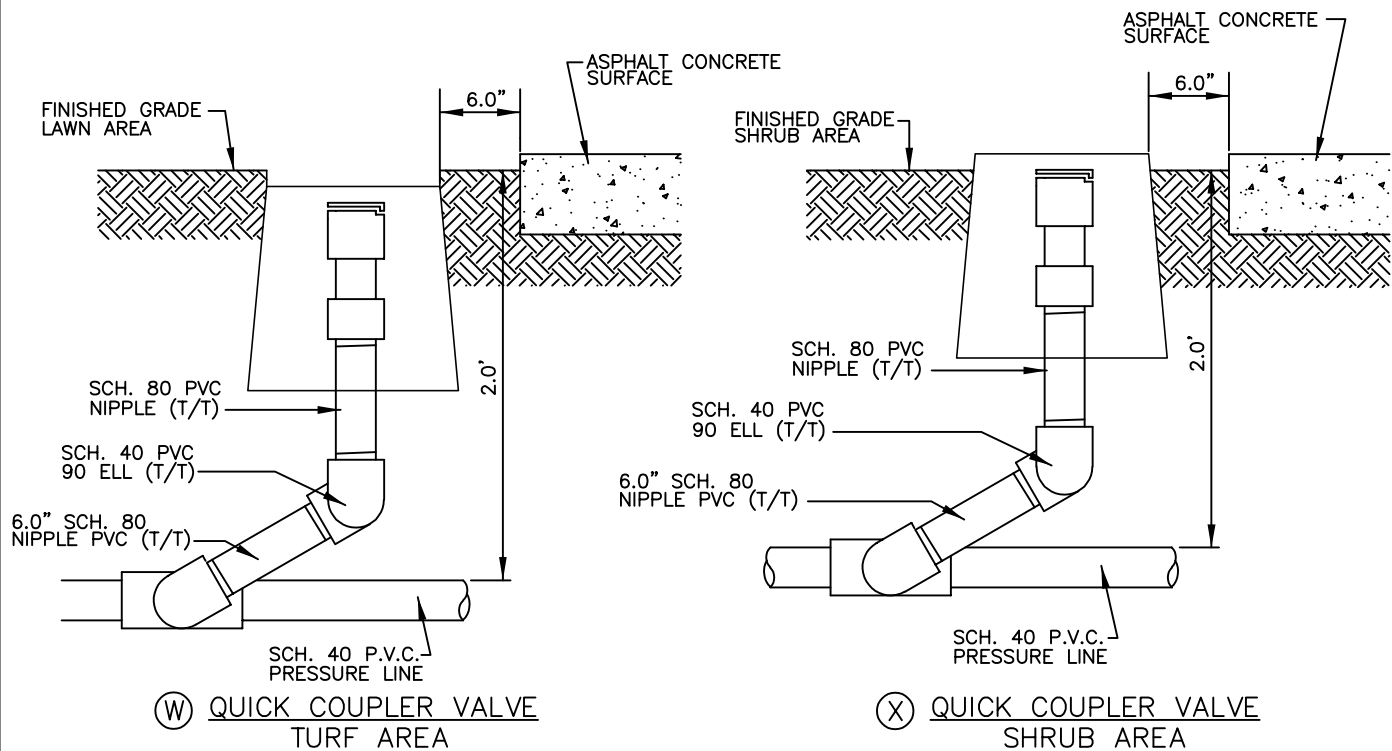


REQUIRED ON ALL ASSEMBLIES

(I) CONCRETE SLAB PLAN

NOTES:

1. EXCEPT AS NOTED, ALL PIPING AND FITTINGS SHALL BE GALVANIZED UNLESS APPROVED BY THE ENGINEER.
2. USE TEFLON PIPE TAPE ON ALL THREADED JOINTS OR APPROVED EQUAL BY THE ENGINEER.
3. ALL MATERIALS SHALL BE NEW AND FREE FROM IMPERFECTIONS.
4. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITY, MANUFACTURERS, AND PERFORMANCE REQUIREMENTS.
5. ALL TRANSITIONS FROM GALVANIZED PIPE TO PVC PIPE SHALL BE CONSTRUCTED WITH SCHEDULE 40 FEMALE ADAPTER OR APPROVED EQUAL BY THE ENGINEER.
6. A 6.0" THICK REINFORCED CONCRETE SLAB IS REQUIRED FOR ALL WATER PROTECTION DEVICES. MINIMUM CLEARANCE SHALL BE 1.5' ON ALL SIDES OF THE DEVICE AND AS DIRECTED BY THE ENGINEER (SEE STANDARD L-5 DETAIL I).
7. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST ACCEPTED EDITION OF THE CALIFORNIA PLUMBING CODE, MANUFACTURER'S RECOMMENDATION, SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
8. ANY AND ALL CHANGES SHALL BE APPROVED BY THE ENGINEER BEFORE IMPLEMENTATION.



NOTES:

1. USE TEFLON ON ALL THREADED JOINTS.
2. ALL NIPPLES SHALL BE SCHEDULE 80 PVC. ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
3. ALL IRRIGATION CONTROL VALVES SHALL BE PLACED IN A PLASTIC IRRIGATION CONTROL VALVE BOX WITH TOP OF VALVE BOX 2.0" BELOW FINISHED GRADE IN TURF AND 2.0" ABOVE FINISHED GRADE IN PLANTER AREA.
4. INSTALLATION OF EXTRA IRRIGATION CONTROL WIRE FROM IRRIGATION CONTROL CLOCK TO REMOTE CONTROL VALVE IS REQUIRED FOR EACH MANIFOLD (BUNDLE OF VALVES). EXTRA WIRE SHALL BE A DIFFERENT COLOR THAN THE ONE USED TO OPERATE VALVES.
5. ALL IRRIGATION CONTROL WIRES (CONTROL AND COMMON) SHALL BE 14 GAUGE U.L. SINGLE STRAND COPPER WIRE, TAPED AND BUNDLED AT 10' INTERVALS AND PLACED NEAR THE IRRIGATION MAINLINE AT THE 3 O'CLOCK POSITION.
6. ALL WIRE CONNECTIONS SHALL BE WATERPROOF.
7. ALL IRRIGATION INSTALLATIONS SHALL BE IN ACCORDANCE WITH STANDARDS, THE LATEST APPROVED EDITION OF THE CALIFORNIA PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
8. ALL MATERIALS USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
9. ANY AND ALL CHANGES SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
10. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITY, MANUFACTURERS AND PERFORMANCE REQUIREMENTS.



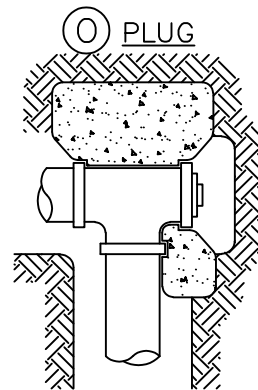
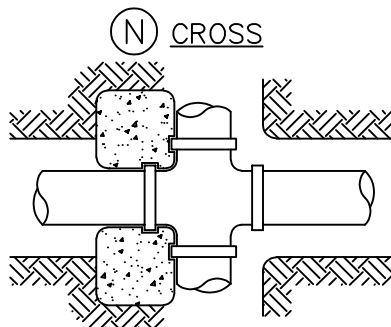
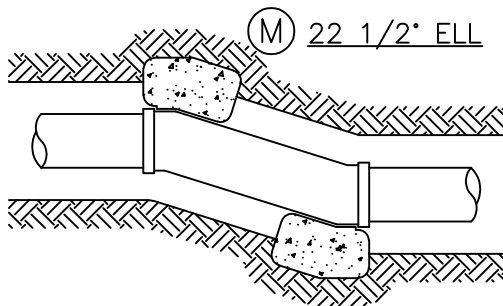
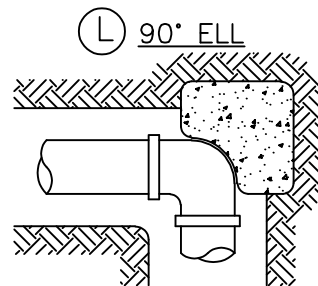
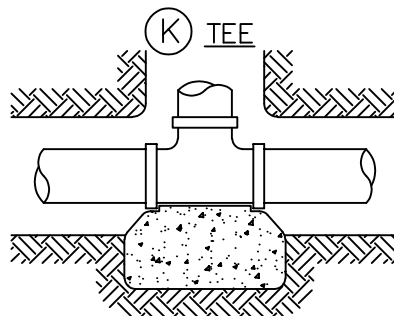
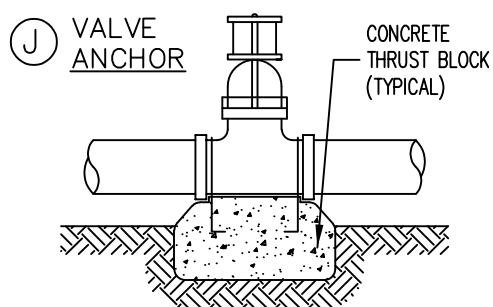
STANDARD QUICK COUPLER VALVE DETAIL

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

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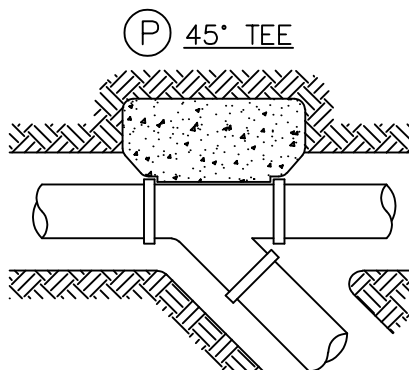
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DESIGNED BY: J.R.C.
DATE DRAFTED: 09/30/23
APPROVED BY: J.R.C.

PLATE NO.
L-6

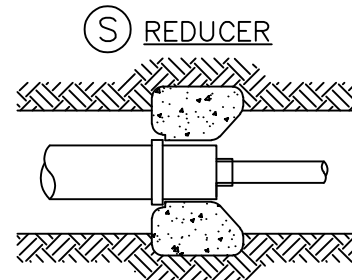
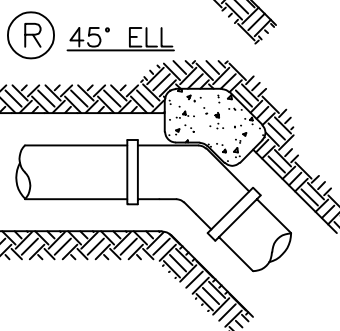
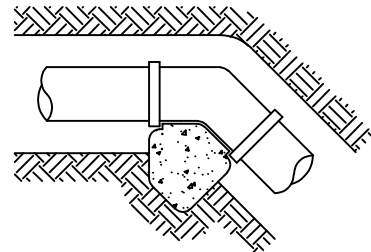


NOTES:

1. ALL MAINLINES INSTALLED SHALL BE TESTED AS PER MANUFACTURES SPECIFICATIONS AND SHALL BE A PART OF THE INSTALLATION SPECIFICATIONS.
2. ALL TRENCHING DEPTHS SHALL BE PER COUNTY STANDARD PLATE L-2 DETAIL D & E, L-3 DETAIL F.
3. PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS CONCRETE SHALL CONFORM TO REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR MINOR CONCRETE (MIN. CEMENT CONTENT 505 LB/CU.YD.) CONCRETE SHALL CONTAIN NO ADDITIVES UNLESS APPROVED PRIOR APPROVAL IS OBTAINED FROM THE COUNTY ENGINEER.
4. THRUST BLOCKS SHALL BE USED AT CHANGES OF DIRECTION (BENDS, TEES), CHANGES OF VELOCITY (REDUCERS, VALVES), AND PIPE DEAD ENDS.
5. WHEN THRUST BLOCKS ARE USED, THE SIZE AND TYPE OF THE BLOCKING MUST BE BASED ON THE MAXIMUM THRUST FORCE EXPECTED AND THE LOAD-BEARING CAPACITY OF THE SOIL.
6. ALL ANCHOR RODS SHALL BE REINFORCED STEEL AND A MINIMUM OF 0.5" IN DIAMETER.
7. ALL CONCRETE THRUST BLOCKS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE CALIFORNIA PLUMBING CODE.
8. ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL, CONCRETE SHALL BE PLACED BEHIND BELLS OF FITTINGS.
9. BEARING AREAS SHOWN IN TABLE ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1500 P.S.F.
10. KEEP CONCRETE AWAY FROM BELLS.



Q 45° TEE ELEVATION



THRUST BLOCK SCHEDULE				
PIPE SIZE	BEARING AREA IN SQ. FT.			
	TEE OR PLUG	90° ELL OR HYDRANT	45° ELL	22-1/2° ELL
4"	2	2	2	1
6"	3	4	2	2
8"	5	7	4	2
10"	8	11	6	3
12"	11	16	8	4



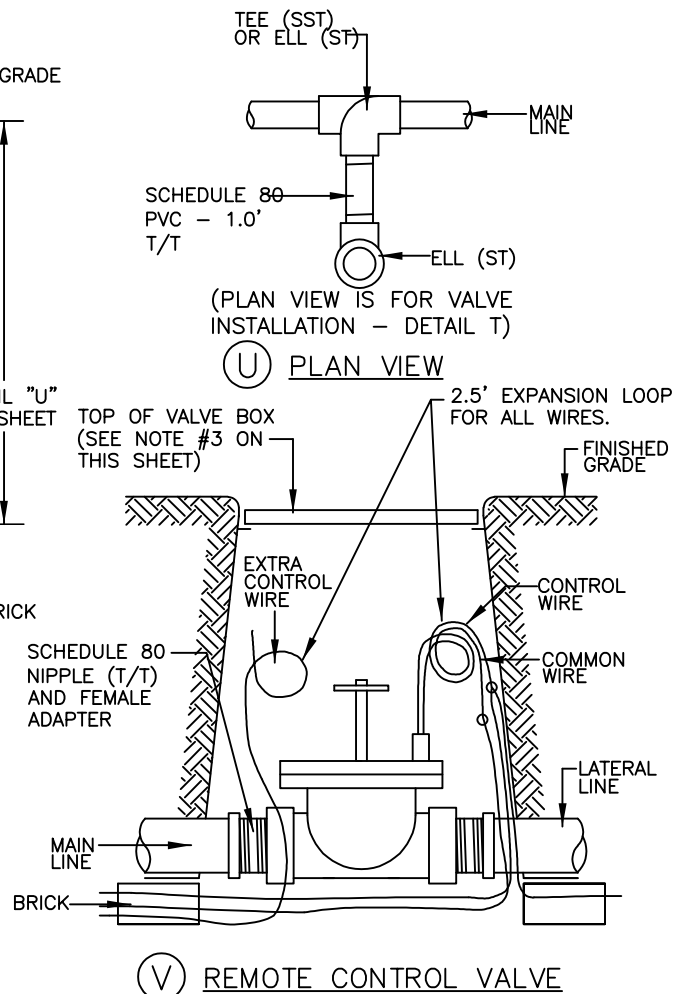
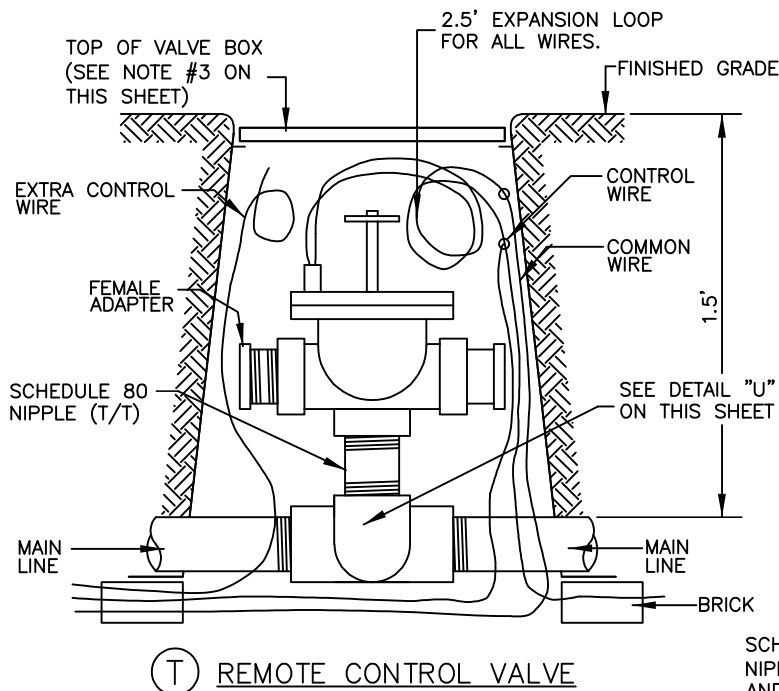
STANDARD DETAIL FOR THRUST BLOCK

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

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DESIGNED BY:	J.R.C.
DATE DRAFTED:	09/30/23
APPROVED BY:	J.R.C.

PLATE NO.
L-7



NOTES:

1. USE TEFLON ON ALL THREADED JOINTS.
2. ALL NIPPLES SHALL BE SCHEDULE 80 PVC. ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
3. ALL IRRIGATION CONTROL VALVES SHALL BE PLACED IN A PLASTIC IRRIGATION CONTROL VALVE BOX WITH TOP OF VALVE BOX 2.0" BELOW FINISHED GRADE IN TURF AND 2.0" ABOVE FINISHED GRADE IN PLANTER AREA.
4. INSTALLATION OF EXTRA IRRIGATION CONTROL WIRE FROM IRRIGATION CONTROL CLOCK TO REMOTE CONTROL VALVE IS REQUIRED FOR EACH MANIFOLD (BUNDLE OF VALVES). EXTRA WIRE SHALL BE A DIFFERENT COLOR THAN THE ONES USED TO OPERATE VALVES.
5. ALL IRRIGATION CONTROL WIRES (CONTROL AND COMMON) SHALL BE 14 GAUGE U.L. SINGLE STRAND COPPER WIRE, TAPED AND
6. ALL WIRE CONNECTIONS SHALL BE WATERPROOF AND APPROVED BY THE ENGINEER. SPLICES WILL NOT BE ALLOWED UNLESS APPROVED BY ENGINEER.
7. MAINTAIN 2.0' SEPARATION BETWEEN REMOTE CONTROL VALVE (CENTERLINE TO CENTERLINE) WHEN MORE THAN ONE VALVE IS INSTALLED IN THE SAME LOCATION.
8. WHERE POSSIBLE, LOCATE VALVES IN THE PLANTER AREAS. BUNDLED AT 10' INTERVALS AND PLACED NEAR THE IRRIGATION MAINLINE AT THE 3 O'CLOCK POSITION.
9. ALL IRRIGATION INSTALLATIONS SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST APPROVED EDITION OF THE CALIFORNIA PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
10. ALL MATERIALS USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
11. ANY AND ALL CHANGES SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
12. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITY, MANUFACTURERS AND PERFORMANCE REQUIREMENTS.



STANDARD DETAIL FOR REMOTE CONTROL VALVES

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

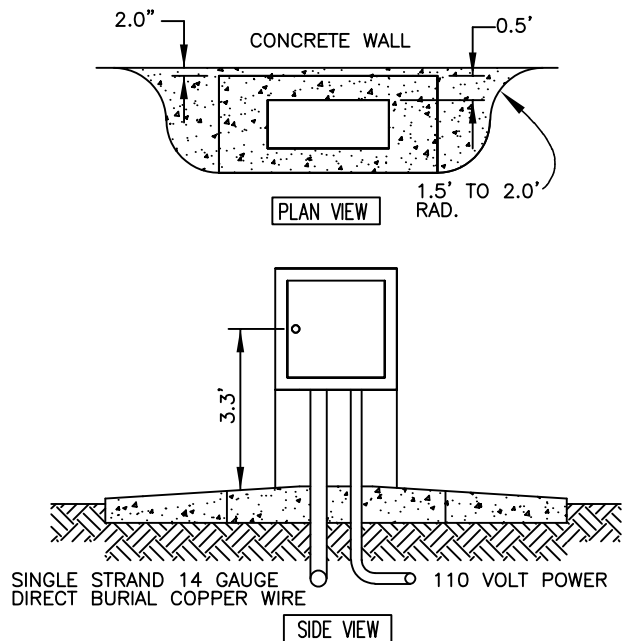
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DATE DRAFTED: 09/30/23
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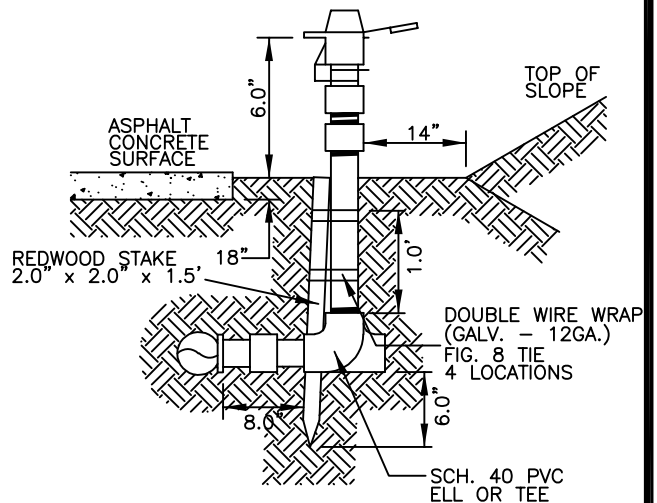
PLATE NO.
L-8

NOTES:

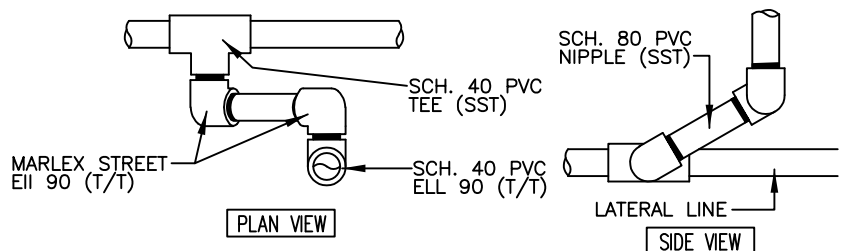
1. USE TEFLON TAPE ON ALL THREADED JOINTS
2. ALL RISERS AND NIPPLES SHALL BE SCHEDULE 80 PVC SIZED AS REQUIRED BY THE ENGINEER.
3. ALL FITTINGS SHALL BE SCHEDULE 40 PVC SIZED AS REQUIRED.
4. WHERE IRRIGATION HEADS ARE INSTALLED WITHIN EMBANKMENTS, A DRAIN VALVE OR CHECK VALVE IS REQUIRED TO PREVENT EROSION. CHECK VALVES AND DRAIN VALVES SHALL BE INSTALLED AT LOCATIONS AS PRESCRIBED BY THE SPECIFIC FIELD CONDITIONS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE AND PLACEMENT.
5. USE SCHEDULE 80 PVC CONDUIT WITH AN ENCLOSED PEDESTAL, SLOPE CONDUIT TO DRAIN 1/8" PER 1.0'.
6. CONSTRUCT 0.5' MINOR CONCRETE (MIN. CEMENT CONTENT 505 LB/CU.YD.) CONCRETE SHALL CONTAIN NO ADDITIVES UNLESS APPROVED PRIOR APPROVAL IS OBTAINED FROM THE COUNTY ENGINEER. SLAB AS REQUIRED TO RECEIVE THE PEDESTAL MOUNTED IRRIGATION CONTROL CLOCK. COMPACT 0.5' BASE TO 90% RELATIVE DENSITY PRIOR TO PLACEMENT OF THE CONCRETE SLAB.
7. WHERE PART CIRCLE IRRIGATION HEADS ADJACENT TO A BUILDING WALL, LOCATE IRRIGATION HEAD 4.0" FROM FACE OF BUILDING WALL TO BACK OF IRRIGATION HEAD.
8. ALL IRRIGATION HEADS SHALL PROVIDE 100% COVERAGE WITH NO OVER SPRAY ONTO SIDEWALKS, STREETS, WALLS, AND BUILDINGS. ADDITION OF HEADS MAY BE REQUIRED AT ANY TIME IN ORDER TO ACHIEVE 100% COVERAGE.
9. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE, AND MANUFACTURER'S RECOMMENDATION, SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
10. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS.
11. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITIES, MANUFACTURES AND PERFORMANCE REQUIREMENTS.
12. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY TYPE OF CONSTRUCTION.



(X) VANDAL RESISTANT ENCLOSURE FOR ELECTRIC METER AND/OR IRRIGATION CONTROL CLOCK



(Y) OSCILLATING HEAD DETAIL



(Z) TRIPLE SWING JOINT DETAIL



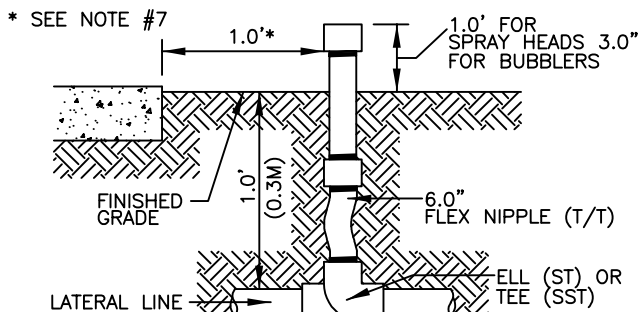
STANDARD DETAIL FOR CONTROL CLOCK, OSCILLATING HEAD AND TRIPLE SWING JOINT

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

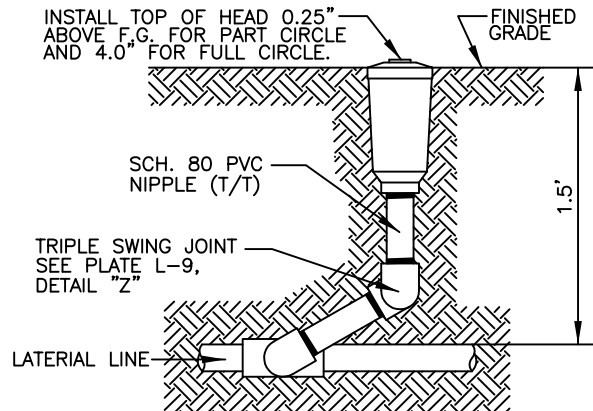
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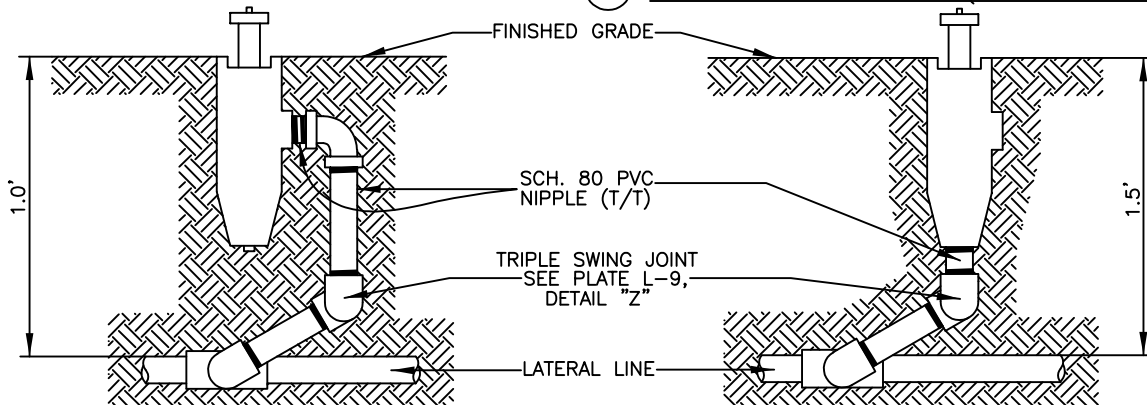
PLATE NO.
L-9



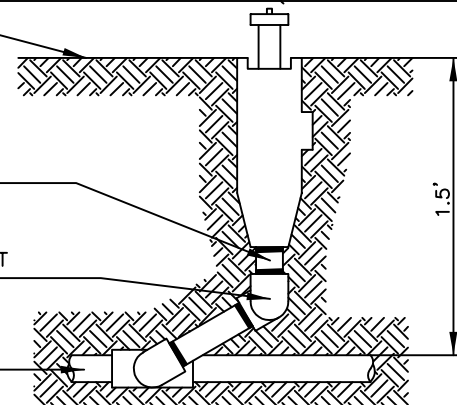
(A) BUBBLER/SHRUB SPRAY HEAD



(B) LARGE RADIUS HEAD (BOTTOM MOUNTED)



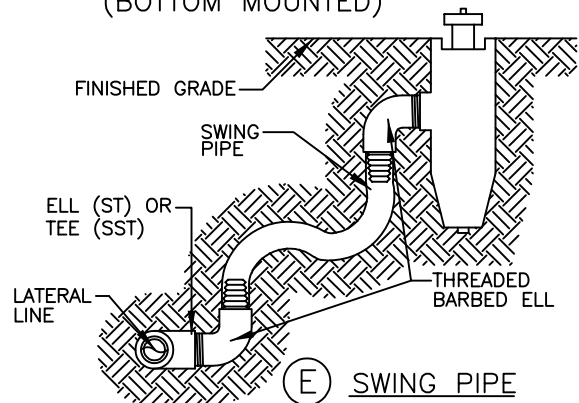
(C) POP UP SPRAY HEAD (SIDE MOUNTED)



(D) POP UP SPRAY HEAD (BOTTOM MOUNTED)

NOTES:

1. USE TEFLON PIPE ON ALL TREADED JOINTS
2. ALL RISERS AND NIPPLES SHALL BE SCH. 80 PVC. ALL FITTINGS SHALL BE SCH. 40 PVC.
3. ALL LATERALS SHALL BE CLASS 200 PVC OR AS REQUIRED ON PLANS.
4. WHEN IRRIGATION HEADS ARE INSTALLED WITHIN EMBANKMENTS, A DRAIN VALVE OR CHECK VALVE IS REQUIRED TO PREVENT EROSION. CHECK VALVES AND DRAIN VALVES SHALL BE INSTALLED AT LOCATIONS AS PRESCRIBED BY THE SPECIFIED CONDITIONS AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT AND USE.
5. ALL POP UP HEADS SHALL BE 1.0" FROM CONCRETE AND ASPHALT AREAS. ALL LARGE RADIUS IRRIGATION HEADS (PART CIRCLE) SHALL BE 4.0" FROM CONCRETE AND ASPHALT AREAS. HEIGHT OF POP UP HEADS SHALL BE AS FOLLOWS:
4.0" FOR LAWN AREAS
1.0' FOR SHRUBS
1.0' FOR GROUND COVERS
6. WHERE PART CIRCLE IRRIGATION HEADS ARE ADJACENT TO A BUILDING WALL, LOCATE HEADS 1.0' FROM FACE OF BUILDING WALL TO BACK OF IRRIGATION HEAD.
7. WHERE TRIPLE SWING JOINT IS REQUIRED, SEE COUNTY PLATE L-9, DETAIL "Z". SWING JOINTS SHALL BE ALLOWED ON ALL IRRIGATION HEADS EVEN WHERE NOT REQUIRED.



(E) SWING PIPE

NOTES: (CONT.)

8. ANY AND ALL CHANGES FROM THIS STANDARD DETAIL SHEET SHALL BY APPROVED BY THE ENGINEER.
9. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITY, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
10. ALL IRRIGATION INSTALLATIONS SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE, MANUFACTURER'S RECOMMEN-DATION SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
11. ALL MATERIALS USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.



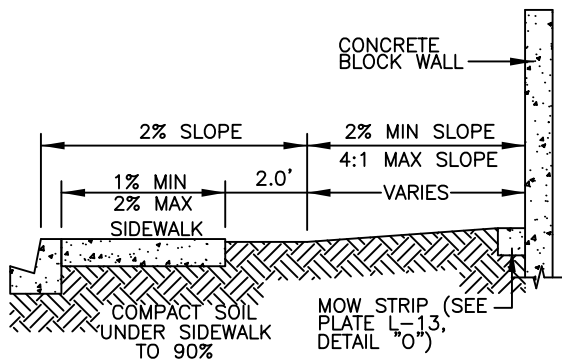
STANDARD DETAIL FOR VARIOUS IRRIGATION HEADS

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

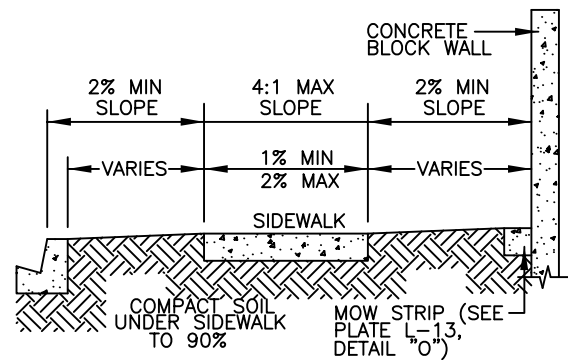
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DESIGNED BY: J.R.C.
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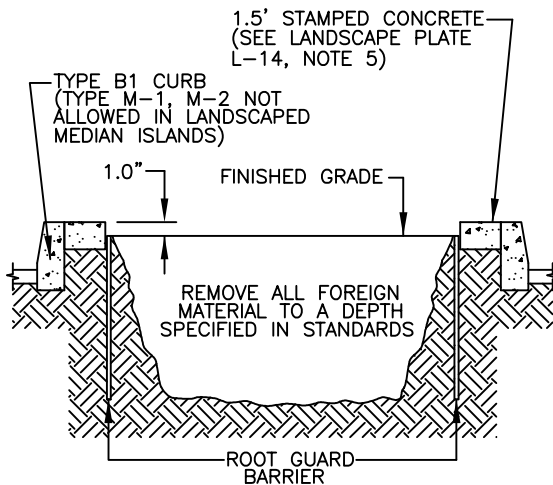
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L-10



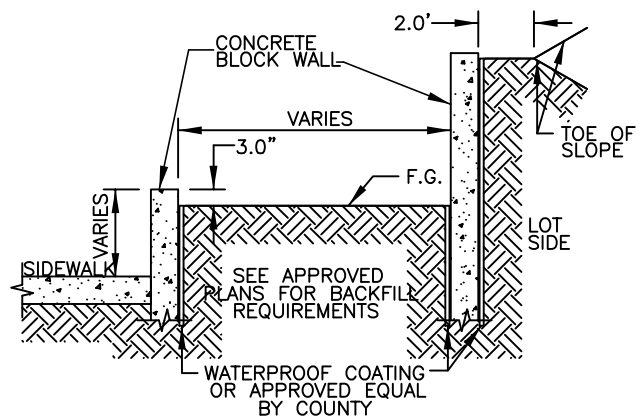
F PARKWAY SECTION
(COMBINATION TYPE SIDEWALK)



G PARKWAY SECTION
(STANDARD TYPE SIDEWALK)



H MEDIAN SECTION



I WATER PROOFING
(PLANTERS AND RETAINING WALLS)

NOTES:

1. PROVIDE POSITIVE DRAINAGE (2% MINIMUM TO 4:1 MAX.) IN ALL LANDFILL AREAS.
2. 9.0" CONCRETE MOW STRIP IS REQUIRED FOR ALL LAWN AREAS ADJACENT TO PROPOSED OR EXISTING WALL PER COUNTY PLATE L-13, DETAIL "O".
3. WHERE LOT GRADES ARE HIGHER THAN STREET GRADES, SIDE OF WALL WATER PROOFING IS REQUIRED PER COUNTY PLATE L-11, DETAIL "I".
4. ANY AND ALL CHANGES SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
5. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
6. ALL MATERIALS USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.

NOTES: (CONT.)

7. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITY, MANUFACTURES, AND PERFORMANCE REQUIREMENTS.
8. IF CURBING AND OR CURB/GUTTER FOR LANDSCAPE CENTER MEDIANS ARE NOT EXISTING, SEE APPROVED CIVIL ENGINEERING DRAWINGS.
9. MEANDERING SIDEWALK MAY BE APPROVED BY THE DIRECTOR WITHIN THE PARKWAY AREA WHERE LANDSCAPING IS PROVIDED.



**STANDARD VARIOUS PARKWAY AND
MEDIAN SECTION MISCELLANEOUS DETAIL**

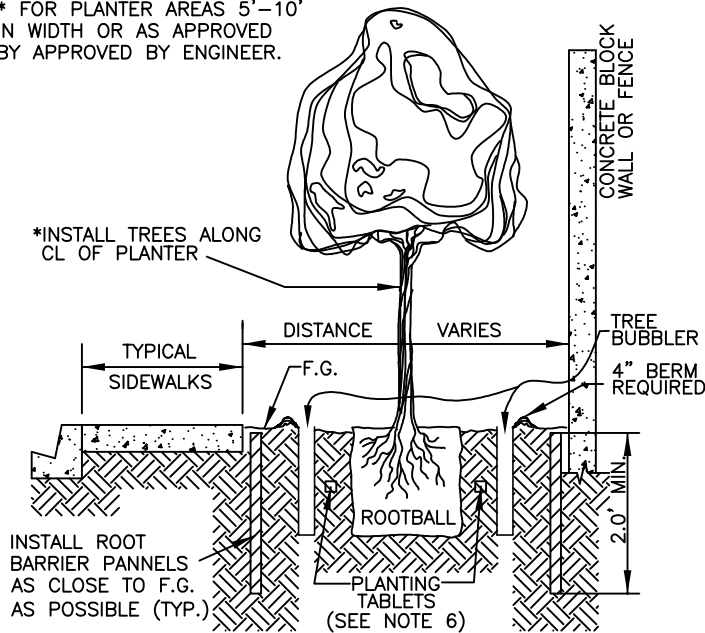
COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

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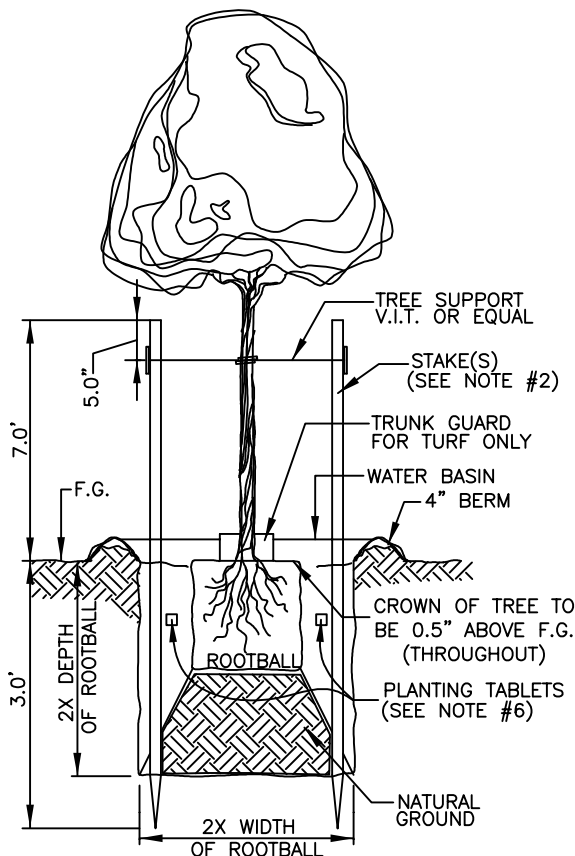
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DESIGNED BY: J.R.C.
DATE DRAFTED: 09/01/23
APPROVED BY: J.R.C.

PLATE NO.
L-11

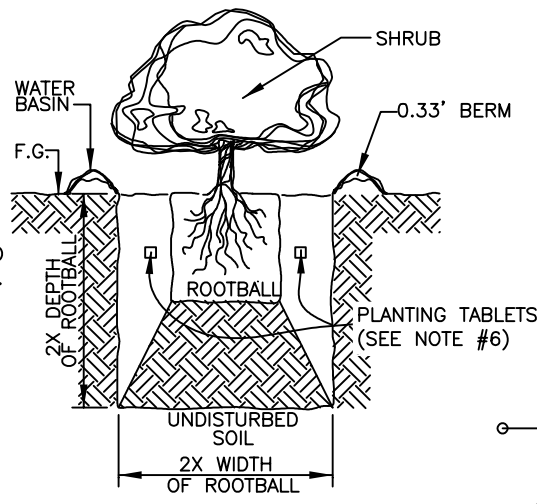
* FOR PLANTER AREAS 5'-10'
IN WIDTH OR AS APPROVED
BY APPROVED BY ENGINEER.



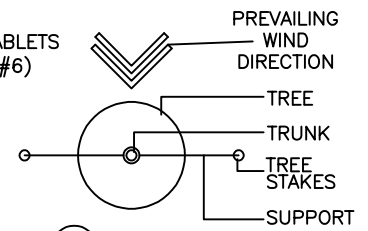
J TREE PLANTING WITH ROOTGUARD



K STAKING DETAIL



L TYPICAL SHRUB PLANTING DETAIL



M STAKE LOCATION

NOTES:

1. APPLY SOIL AMENDMENT AS PER SOIL TEST.
2. ALL TREES SHALL BE STAKED WITH NEW 2.0" DIA. (PRESSURE TREATED) LODGE POLE PINE. REMOVE ORIGINAL TREE STAKES FROM ALL PLANT MATERIAL DELIVERED TO THE PROJECT SITE AND INSTALL NEW TREE STAKES.
3. CONSTRUCT MOUND AS REQUIRED TO SECURE PLANTS STABILITY DURING CONSTRUCTION INSTALLATION.
4. ARBOR TREE GUARD OR APPROVED EQUAL IS REQUIRED AROUND ALL TREES PLANTED IN LAWN AREAS. TREE BUBBLER SHALL BE INSTALLED.
5. ROOT GUARD BARRIER IS REQUIRED ON ALL HARD SURFACES WHEN THE TREE TRUNK IS 5.0' OR LESS FROM ANY HARD SURFACE. PLACE BARRIER PARALLEL ALONG THE EDGE OF HARD SURFACE.
6. PLANTING TABLET SHALL BE PLACED 2.0" BELOW FINISHED GRADE NEAR ROOT FOUNDATION AS FOLLOWS:
1 - TABLET PER 1 GAL.
3 - TABLETS PER 5 GAL.
6 - TABLETS PER 15 GAL.
9 - TABLETS PER 2.0' BOX
7. ANY AND ALL DEVIATIONS FROM THIS STANDARD SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
8. ALL LANDSCAPE INSTALLATION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, MANUFACTURER'S RECOMMENDATION, AND SECTION 20 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
9. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
10. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS FOR SPECIFIC MODEL NUMBERS, SIZE, MANUFACTURER, AND PERFORMANCE REQUIREMENTS.



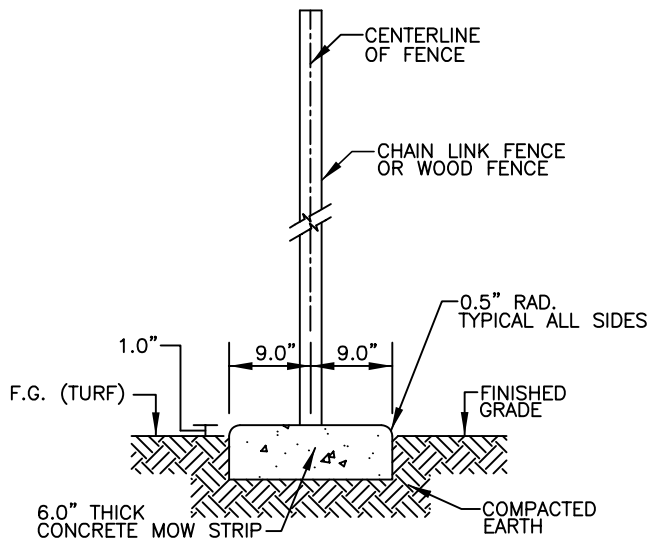
STANDARD LANDSCAPE AND IRRIGATION FOR VARIOUS PLANTINGS

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

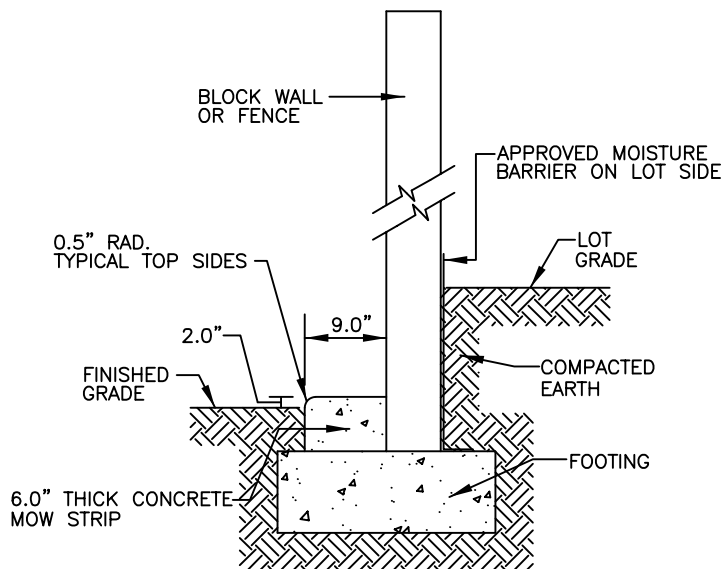
REVISIONS	DATE	DESC
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DRAFTED BY:	R.R.P.
DESIGNED BY:	J.R.C.
DATE DRAFTED:	09/30/23
APPROVED BY:	J.R.C.

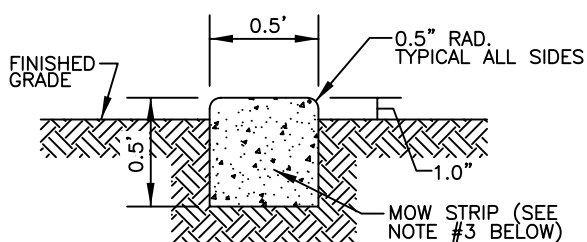
PLATE NO.
L-12



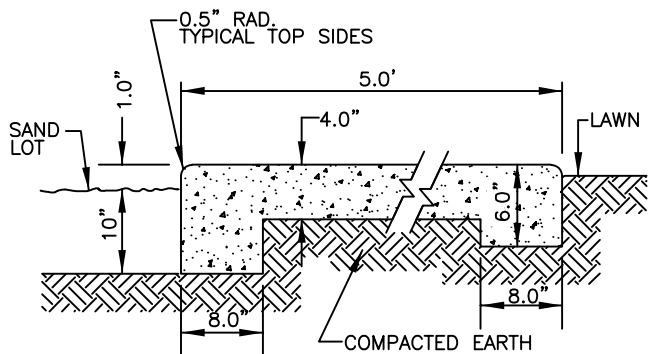
(N) MOW STRIP AT CHAIN LINK FENCE AND WOOD FENCE



(O) MOW STRIP AT WALL AND FENCE



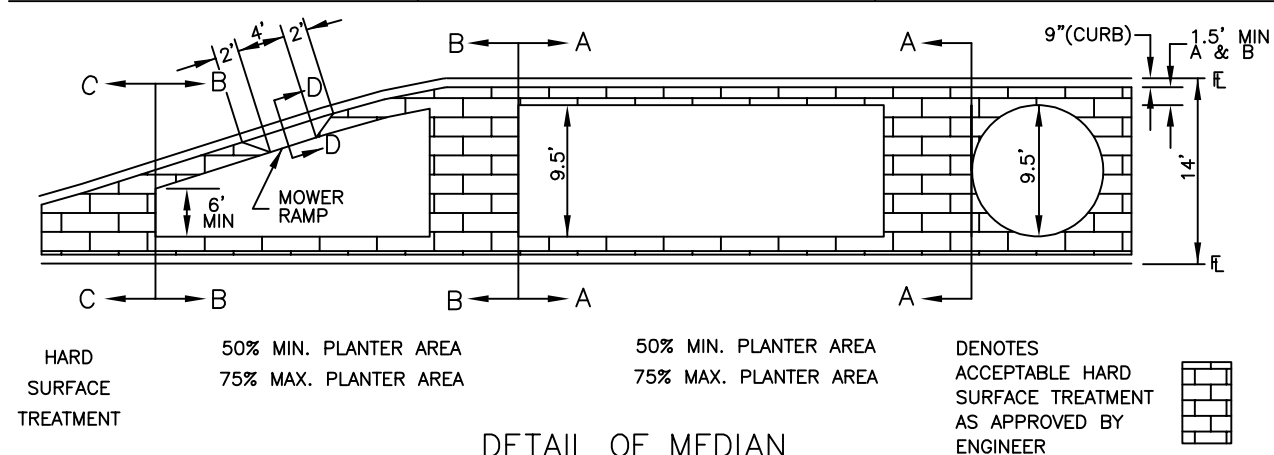
(P) CONCRETE MOW STRIP



(Q) PLAYGROUND SIDEWALK

NOTES:

1. CONSTRUCT A DEEP SCORE EXPANSION JOINT AT EVERY FENCE POST AND EVERY 15' ON ALL OTHER CONCRETE SURFACES.
2. ALL AREAS TO RECEIVE CONCRETE SHALL BE COMPACTED TO 90% RELATIVE DENSITY FOR A DEPTH OF 0.5' OR AS APPROVED BY THE ENGINEER.
3. TOP OF MOW STRIP SHALL BE 1.0" ABOVE FINISHED GRADE WHEN ADJACENT TO TURF AND 2.0" ABOVE FINISHED GRADE WHEN ADJACENT TO PLANTER.
4. WHERE THE GRADE ON THE LOT SIDE OF THE WALL IS HIGHER THAN THE GRADE ON THE STREET SIDE OF THE WALL, WATER PROOFING IS REQUIRED. SEE COUNTY PLATE L-11, DETAIL "I" FOR WATER PROOFING REQUIREMENTS.
5. A 9.0" CONCRETE MOW STRIP IS REQUIRED FOR ALL LAWN AREAS ADJACENT TO AN EXISTING OR PROPOSED FENCE PER COUNTY PLATE L-13, DETAILS "N" & "O".
6. ANY AND ALL CHANGES FROM THIS STANDARD DETAIL SHEET SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
7. ALL CONCRETE SHALL BE MINOR CONCRETE (SEE PLATE L-7, NOTE 2) IN ACCORDANCE WITH COUNTY STANDARDS, THE LATEST EDITION OF SECTION 73 OF THE STANDARD SPECIFICATION, AND AS APPROVED BY THE ENGINEER.



-
- 1/4" PER FT 1/4" PER FT
- 1"

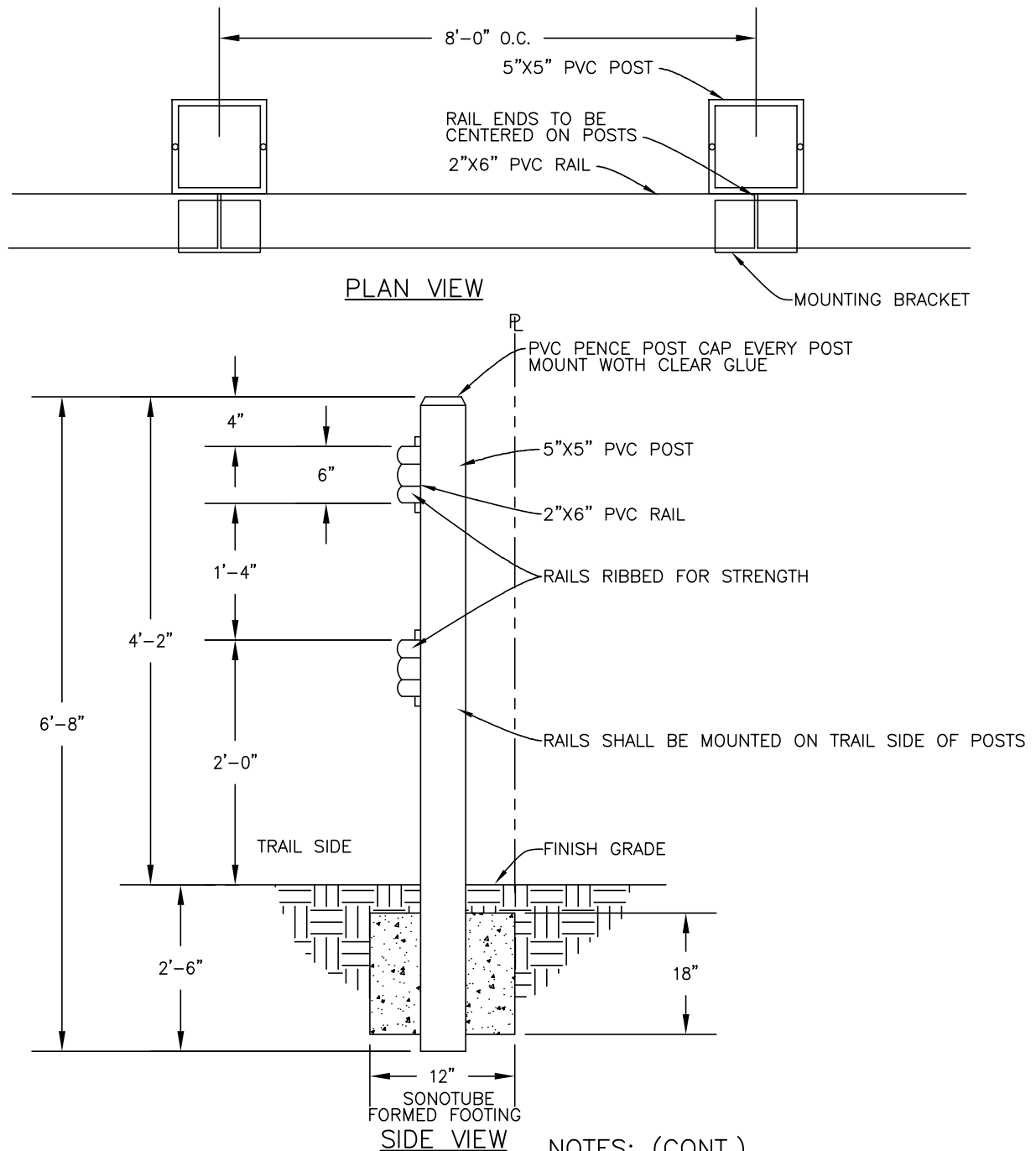
X-SECTION ADJACENT
TO PLANTER AREAS



COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

REVISIONS		DRAFTED BY: R.R.P.
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—	—	DESIGNED BY: J.R.C.
—	—	
—	—	DATE DRAFTED: 09/30/23
—	—	
—	—	APPROVED BY: J.R.C.
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PLATE NO.
L-14



NOTES:

1. RAILS SHALL MEASURE EXACTLY 2"X6".
2. POST SHALL MEASURE EXACTLY 5"X5".
3. ALL FENCE MATERIAL SHALL CONSIST OF 100% MONO-EXTRUDED VIRGIN PVC WITH A MIN. OF 8% T102 THROUGHOUT THE PRODUCT OR ALTERNATIVE APPROVED BY THE DIRECTOR.
4. FENCE MATERIAL SHALL BE UV RESISTANT.
5. CAP ALL POSTS AND ENDS OF EXPOSED RAILS.

NOTES: (CONT.)

6. EVERY THIRD PVC POST AND ALL PVC POSTS LOCATED AT CHANGES OF DIRECTION OR END POSTS ARE REQUIRED TO BE FILLED WITH CONCRETE.
7. STAINLESS STEEL SCREWS SHALL BE USED FOR FENCE CONSTRUCTION.
8. RAILS SHALL HAVE TWO RIBS ALONG THE ENTIRE LENGTH OF THE PRODUCT FOR ADDED STRENGTH.
9. TRAILS ON CURVES REQUIRE SPECIAL DESIGN.



DETAIL FOR MULTI-USE TRAIL FENCE

COUNTY OF KERN
STATE OF CALIFORNIA
DEVELOPMENT STANDARD

REVISIONS	DATE	DESC
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DRAFTED BY:	R.R.P.
DESIGNED BY:	J.R.C.
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PLATE NO.
L-15