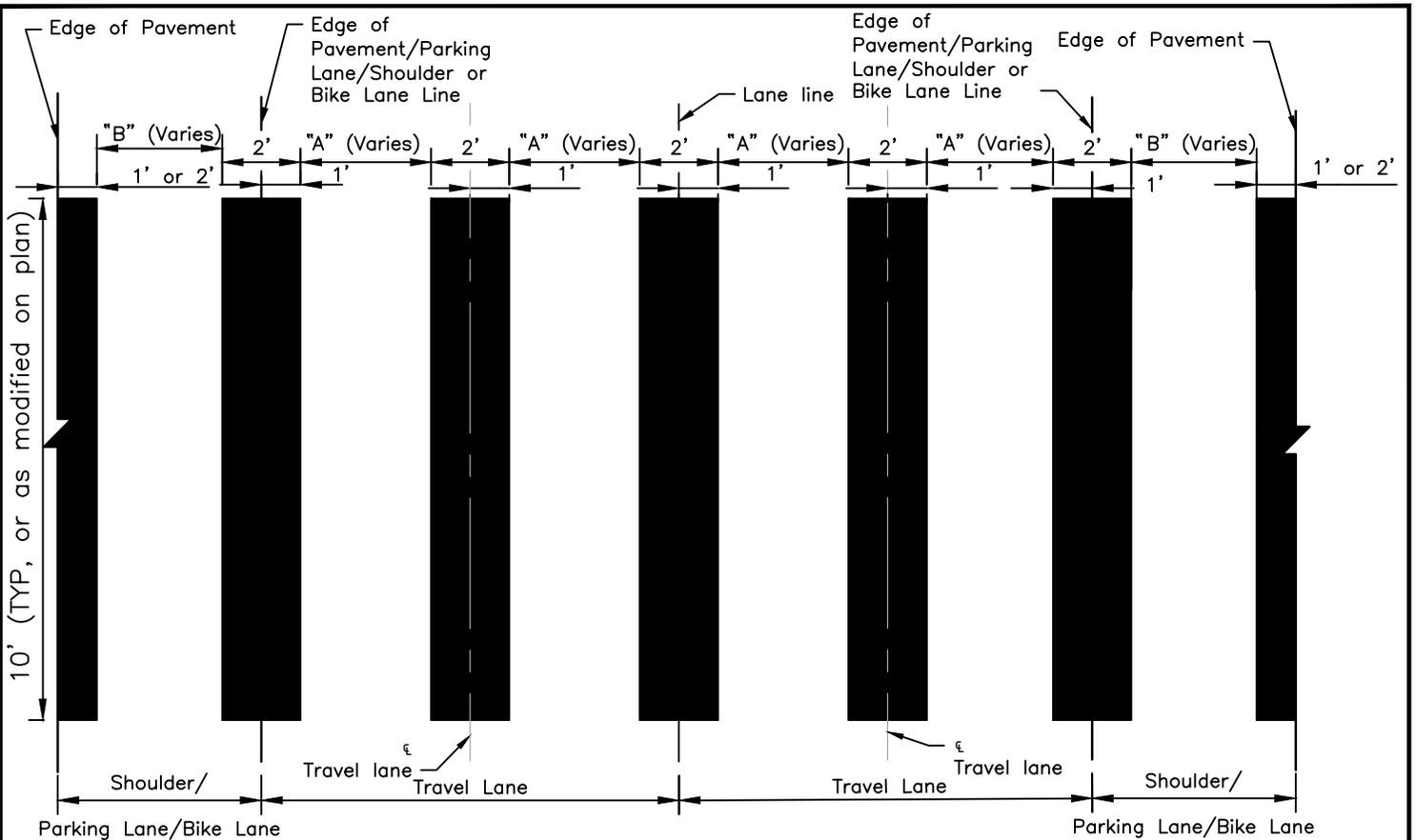




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STANDARD PEDESTRIAN CROSSWALK CONTINENTAL CROSSWALK DETAIL



NOTES:

1. Dimension "A" varies according to travel lane widths. Example $A=3'$ for 10' lane width, $A=4'$ for a 12' lane width, etc.
2. Dimension "A" or "B" must be no less than 2' and no greater than 4'.
3. Spaces between markings should be placed in vehicular wheel path of each lane.
4. Dimension "B" varies according to parking lane, shoulder or bike lane width. Example $B=2'$ for 4' or 5' shoulder/bike lane width, $B=3'$ for 6' parking lane width, $B=4'$ for 7' parking lane width, etc.
5. Crosswalk shown for standard single travel lane in each direction. Crosswalk layout for multiple travel lanes in each direction, per direction of City Engineer.

SPECIFICATIONS:

1. Crosswalk pavement markings must be thermoplastic, conforming to Section 84 Traffic Stripes and Pavement Markings of the State Standard Specifications, latest edition.
2. All crosswalk markings must be white, except for those near schools must be yellow in compliance with latest version of California Manual on Uniform Traffic Control Devices.
3. Crosswalk markings must be parallel to through lane lines.

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STANDARD PLAN

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City of Sonoma

PUBLIC WORKS DEPARTMENT

CONSTRUCTION GENERAL NOTES 1

GENERAL NOTES

1. ALL WORKMANSHIP, MATERIALS, AND CONSTRUCTION SHALL CONFORM TO THE LATEST REVISIONS FOR THE CITY OF SONOMA STANDARD PLANS, STATE (CALTRANS) STANDARD SPECIFICATIONS AND STANDARD PLANS. ALL WORK IS TO BE PERFORMED IN CONFORMANCE WITH THE LATEST EDITION OF ALL APPLICABLE REGULATORY REQUIREMENTS.
2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR CALL 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION FOR MARKOUTS OF EXISTING UNDERGROUND FACILITIES.
3. ANY DAMAGES TO PRIVATE, CITY OR UTILITY OWNER PROPERTY CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL DAMAGES CAUSED BY CONTRACTOR OPERATIONS SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND AT THE CONTRACTOR'S EXPENSE.
4. NO CONSTRUCTION SHALL COMMENCE WITHOUT PRIOR APPROVAL OF THE CITY OF SONOMA ENGINEER.
5. THE CONTRACTOR SHALL OBTAIN A TRENCH SAFETY PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH GREATER THAN 5- FEET DEEP.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE OFF-SITE DISPOSAL AND RECYCLING (WHERE POSSIBLE) OF ALL REMOVED OR DEMOLISHED BITUMINOUS PAVEMENT, CONCRETE, REINFORCEMENT, AND SPOILS AS REQUIRED BY THE ENGINEER AND PER THE SPECIFICATIONS.
7. ALL LANDSCAPING AND IRRIGATION SYSTEMS OR OTHER PRIVATE IMPROVEMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED IN KIND OR AS DIRECTED BY THE ENGINEER.
8. EXISTING TURF, PLANTS, SHRUBBERY AND TREES SHALL BE REMOVED ONLY AS DIRECTED BY THE ENGINEER.
9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION.
10. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
11. ALL EXCAVATIONS SHALL BE PAVED AT THE END OF EACH WORKING DAY PER THE SPECIFICATIONS.
12. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), STANDARD SPECIFICATIONS AND STANDARD PLANS. FLAGGERS SHALL BE PROVIDED WHEN NECESSARY. ALL SIGNS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROVIDE PROPER VISIBILITY.
13. THE CONTRACTOR SHALL HAVE A CLASS "A" LICENSE.
14. CAUTION SHALL BE EXERCISED WHEN DIGGING WITHIN THE DRIPLINE OF ANY TREE. ROOTS LARGER THAN 2 INCHES SHALL NOT BE CUT WITHOUT PERMISSION FROM THE ENGINEER. IN THE EVENT THAT A TREE ROOT LARGER THAN 2 INCHES NEEDS TO BE REMOVED, THE ROOT PRUNING SHALL BE PERFORMED BY A LICENSED ARBORIST APPROVED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE
15. CONTRACTOR SHALL PROTECT AND PRESERVE CITY SURVEY MONUMENTS. IF NOT POSSIBLE CONTRACTOR SHALL COORDINATE 10 DAYS IN ADVANCE WITH CITY OF SONOMA FOR REFERENCING OF EXISTING MONUMENTS PRIOR TO WORK IN THE AREA. IF MONUMENT(S) ARE DISTURBED CONTRACTOR SHALL RECONSTRUCT PER CITY OF SONOMA STANDARDS.
16. ALL PAVEMENT STRIPING, MARKINGS, AND SIGNS DAMAGED DUE TO CONSTRUCTION SHALL BE REPLACED IN KIND.
17. CONTRACTOR SHALL PROTECT AND PRESERVE EXISTING FACILITIES IF POSSIBLE OR REPLACE IN KIND
18. ALL TRENCHES SHALL BE PAVED OR COVERED WITH APPROVED TRENCH PLATES WHILE CONSTRUCTION WORK IS NOT ACTIVELY COMMENCING OR AT THE END OF EACH WORKING DAY.
19. THE CONTRACTOR SHALL SECURE ALL ENCROACHMENT PERMITS FROM THE CITY OF SONOMA, SONOMA COUNTY WATER AGENCY, CALIFORNIA DEPARTMENT OF TRANSPORTATION AND ANY OTHER APPLICABLE AGENCIES.

PG 1 of 2

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City of Sonoma

PUBLIC WORKS DEPARTMENT

CONSTRUCTION GENERAL NOTES 2

WATER NOTES

1. ONLY AUTHORIZED CITY PERSONNEL SHALL OPERATE VALVES ON THE EXISTING WATER SYSTEM.
2. IF DAMAGE OCCURS TO ANY WATER SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE SERVICE FROM THE CORPORATION STOP AT THE MAIN TO THE WATER METER WITHOUT SPLICING.
3. THERE SHALL BE NO UNMETERED CONNECTIONS TO THE CITY OF SONOMA WATER SYSTEM, INCLUDING CONNECTIONS BYPASSING THE METER FOR OBTAINING CONSTRUCTION WATER. UNMETERED CONNECTIONS WILL BE SEVERED BY THE CITY AND WILL RESULT IN PENALTIES INCLUDING FINES AND PAYMENT OF ESTIMATED WATER USAGE FEES. CITY PERSONNEL WILL INSTALL A TEMPORARY 2 INCH METER WITH CHECK VALVE FOR CONSTRUCTION WATER UPON COMPLETION OF APPLICATION.
4. NOTIFY RESIDENTS 48 HOURS IN ADVANCE OF SHUTDOWN.
5. ALL WATER MAIN/SERVICES SHALL HAVE WARNING TAPE INSTALLED IN THE TRENCH 12-INCHES BELOW FINISHED GRADE. WATER MAIN/SERVICE INSTALLATION SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH CRITERIA FOR THE SEPARATION OF WATER MAINS AND NON-POTABLE PIPELINES. SEPARATION AND CLEARANCE REQUIREMENTS ARE FROM THE PIPELINE EDGE-TO-EDGE.
6. WATER MAIN/SERVICE CONSTRUCTION SHALL BE PER CITY OF SONOMA STANDARD PLANS.
7. WATER MAINS SHALL BE CONSTRUCTED WITH MINIMUM COVER OF 36-INCHES FROM THE TOP OF PIPE.

PEDESTRIAN CURB RAMP GENERAL NOTES

1. ALL IMPROVEMENTS SHALL CONFORM TO APPLICABLE ACCESSIBILITY STANDARDS FOR WORK INSIDE AND OUTSIDE OF THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO, RAMP SLOPES, TRANSVERSE SLOPES, DIMENSIONS, DETECTABLE WARNINGS AND GROOVED BORDER.
2. ROADWAY SLOPE WITHIN 4-FEET OF GUTTER LIP WITHIN RAMP LANDING SHALL NOT EXCEED 5%.

SURVEY NOTES

1. LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE AVAILABLE RECORD MAPS. EXACT LOCATIONS AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800)227-2600 OR DIAL 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.

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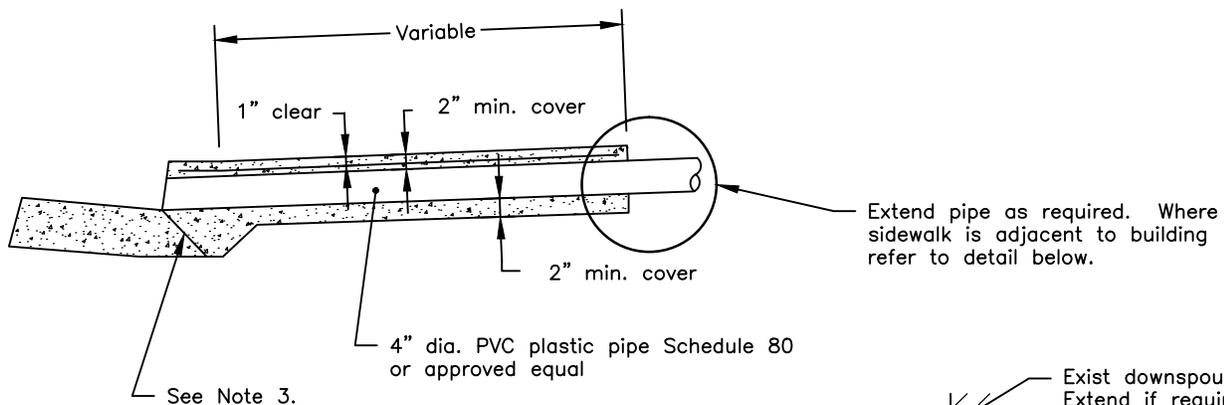
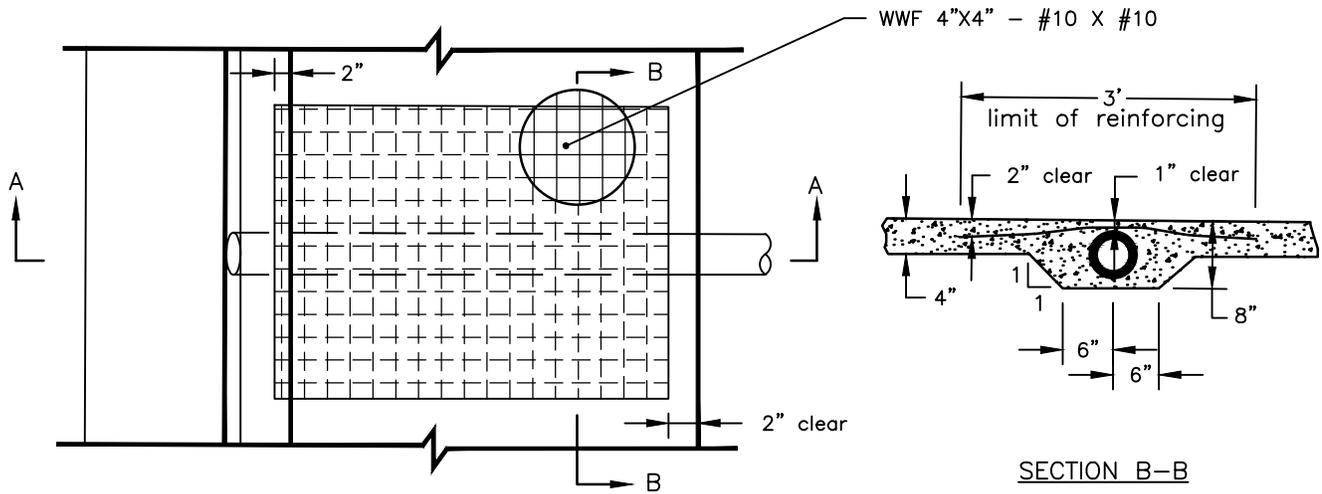
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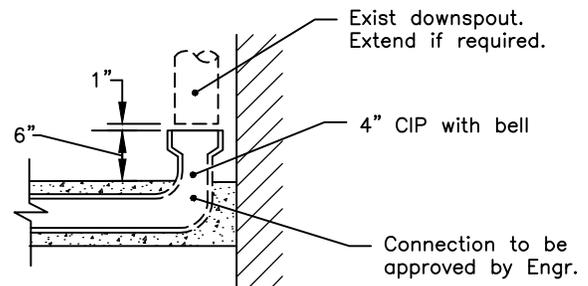
City of Sonoma

PUBLIC WORKS DEPARTMENT

SIDEWALK AND CURB DRAIN



SECTION A-A



NOTES:

1. See Std. Plan 110 for curb, gutter and sidewalk details.
2. Concrete Specifications; per Caltrans Section 90-2:
Minor Concrete: Cement: 505 lbs/cy (min), Aggregate: 3/4" (min), 1-1/2" (max), Water: potable and free of oil, salts and other impurities, Slump/Finish: 4" (max) light broom finish.
3. Add "lamp black" color to PCC at a rate of 1 pound per cubic yard.
4. If curb, gutter and sidewalk are existing, the curb, gutter and sidewalk shall be sawed at the nearest scoremark to a depth of 1 1/2" and removed to limits shown. The gutter shall be left undisturbed.
5. No concrete shall be placed without prior inspection by the City of Sonoma

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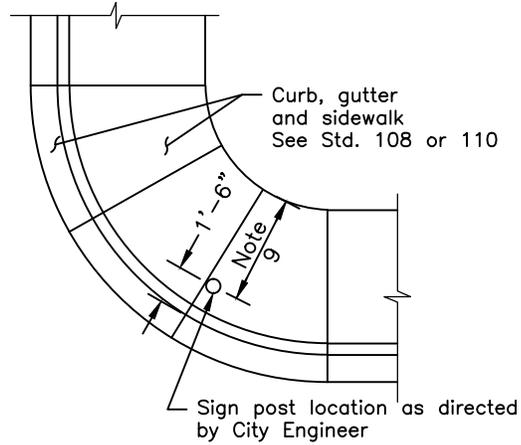
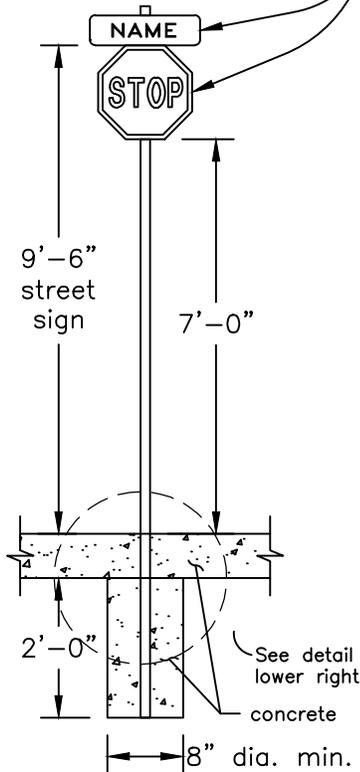


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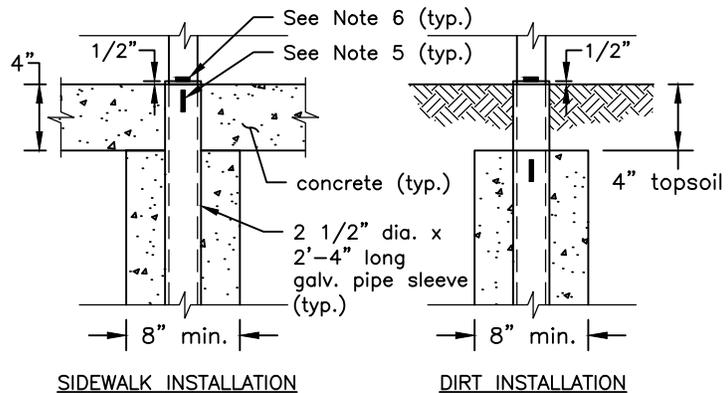
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SIGN, POST AND FOUNDATION INSTALLATION

Signs shall be furnished and installed by the applicant as specified on improvement plans



SIGN POST LOCATION



SIDEWALK INSTALLATION

DIRT INSTALLATION

NOTES:

- Sign, post and foundation installation must meet requirements of current CA Manual on Uniform Traffic Control Devices (MUTCD) and all Americans with Disabilities Act (ADA) requirements.
- Concrete for post installation per Caltrans Section 90-2:
 Minor concrete: Cementitious material 505 lbs/cy (min.);
 Aggregate: 3/4" (min.), 1-1/2" (max.)
 Water: Potable and free from oils, salts and other impurities;
 Slump: 4" (max.)
- Posts shall be new 2" std. galv. pipe and shall be set plumb.
- Where no street name sign is installed, post shall be capped by using a rounded post cap.
- Three equally spaced 1/4" high welded beads 3" in length or City approved equal on pipe sleeve as shown.
- Two equally spaced 1" long tack welds to post and sleeve.
- See Std. plan 122 for street name sign specs.
- Stop signs must be 30" x 30" (min.). All roadside signs must meet requirements of current CA MUTCD, including for reflectance and illuminance. Sign blanks must be 0.080 inches (min.) thick for all roadside signs. Base metal must conform to ASTM B209, of either 5052-H38 or 6061-T6 alloy. Signs must be manufactured by Hawkins or approved equivalent. Reflective sheeting must conform to 3M Diamond grade or approved equal.
- Sidewalk clear width from edge of pole shall meet ADA requirements.
- Sign mounting hardware must be Hawkins M2G-C2B-TP with theft-proof cap screw, or City approved equal.

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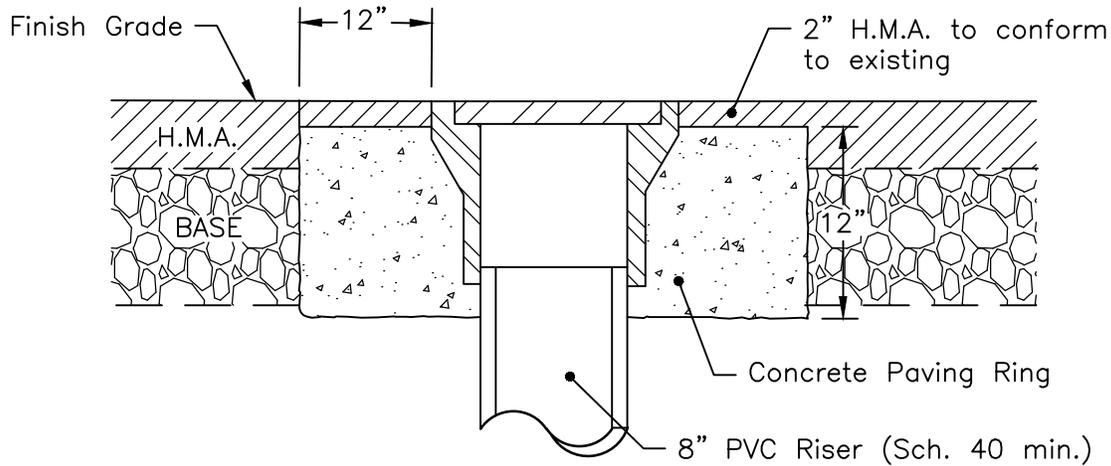
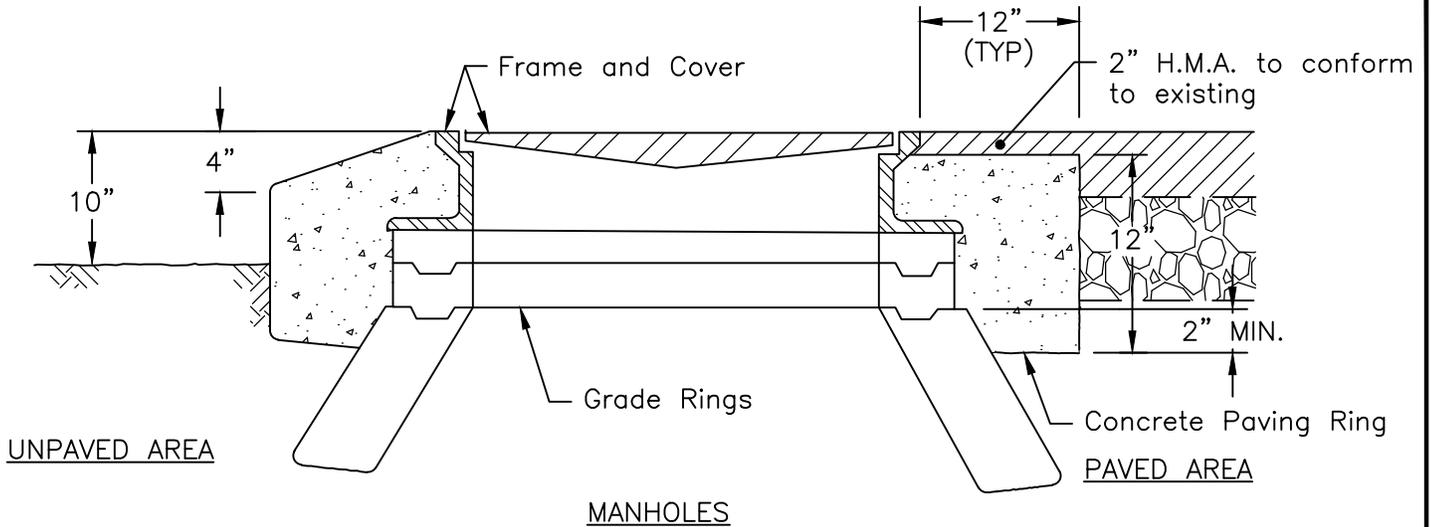
115



City of Sonoma

PUBLIC WORKS DEPARTMENT

FRAME AND COVER ADJUSTMENT



VALVES, CLEAN-OUTS, ETC

NOTES:

1. In unpaved areas, concrete paving ring shall be as directed by the City Engineer.
2. Under new street construction or reconstruction, frames and covers shall be lowered below subgrade processing depth and shall not be raised to grade until after paving.
3. The frame and cover shall not vary more than 1/8" from finish grade except that the rim of sanitary sewer manhole casings shall be installed 0.01' to 0.03' max. above finish pavement grade as required by the Sonoma Valley County Sanitation Department.
4. Concrete Specifications; per Caltrans Section 90-2:
Minor Concrete: Cement: 505 lbs/cy (min), Aggregate: 3/4" (min), 1-1/2" (max), Water: potable and free of oil, salts and other impurities, Slump/Finish: 4" (max) light broom finish.
5. See Standard Plan 117 for adjustment of survey monument frame and cover.

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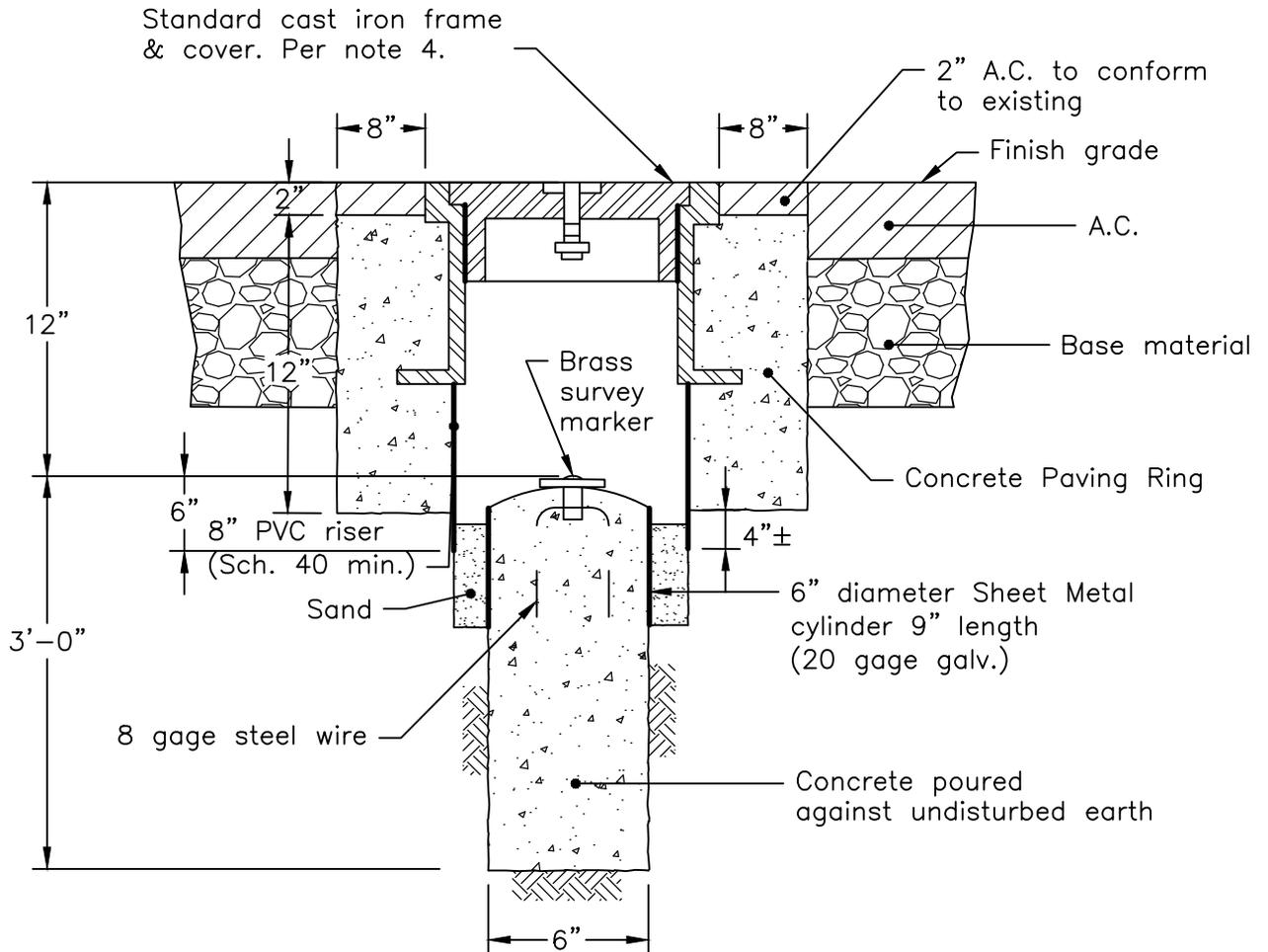
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PUBLIC WORKS DEPARTMENT

SURVEY MONUMENT INSTALLATION



NOTES:

1. Frame and cover to be set to grade after final paving where monument is set in conjunction with new street construction or where grade adjustment must be made in conjunction with reconstruction or repaving an existing street.
2. The frame and cover shall not vary more than 1/8" from finish grade.
3. Concrete Specifications; per Caltrans Section 90-2:
Minor Concrete: Cement: 505 lbs/cy (min), Aggregate: 3/4" (min), 1-1/2" (max), Water: potable and free of oil, salts and other impurities, Slump/Finish: 4" (max) light broom finish.
4. Frame and cover shall be Phoenix No.P - 200I - A (P200IE), AB&I Foundry Model 5020 - 21, South Bay Foundry No. SBF 1201, or approved equal.

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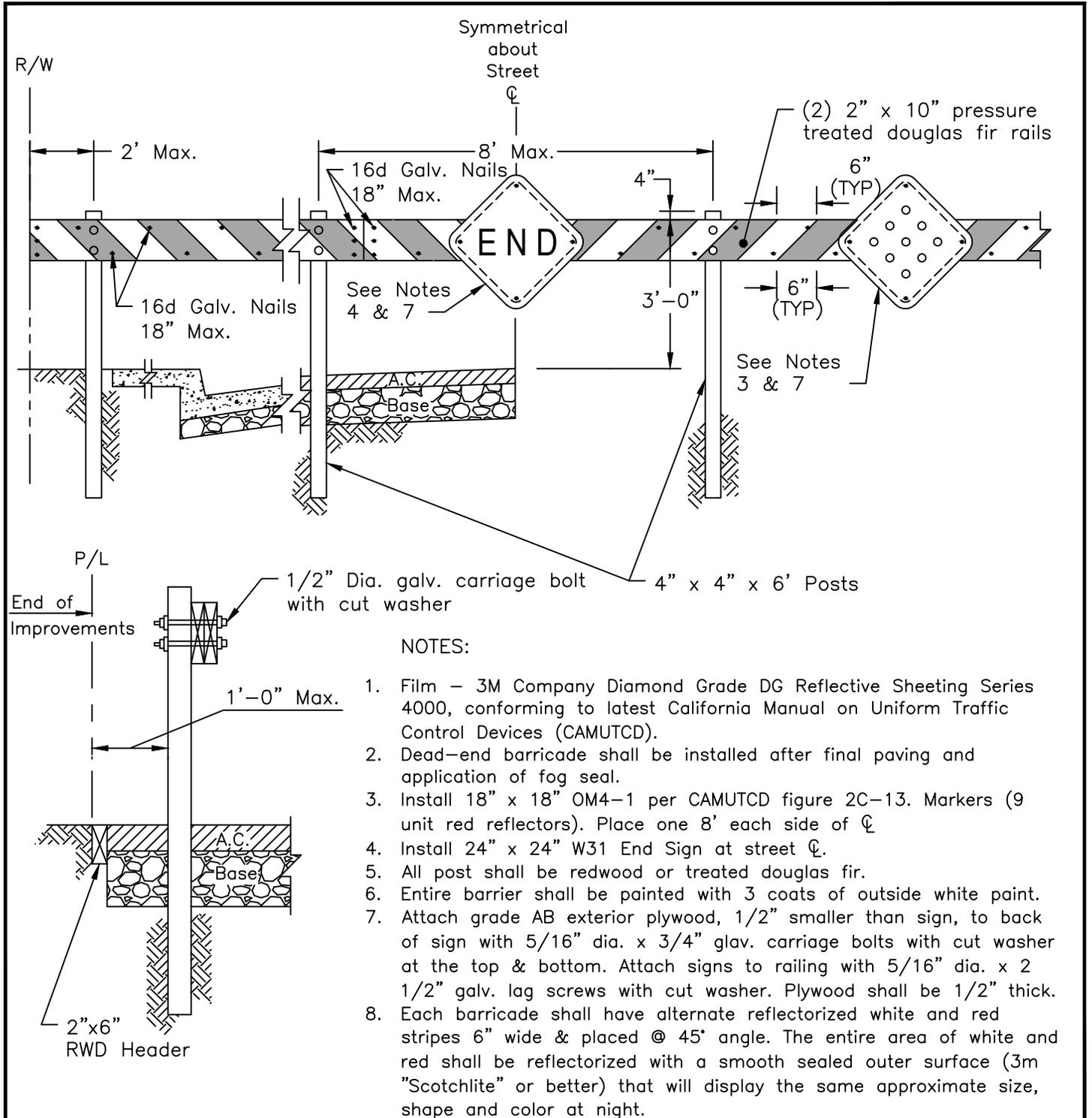
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DEAD-END BARRICADE



NOTES:

1. Film - 3M Company Diamond Grade DG Reflective Sheeting Series 4000, conforming to latest California Manual on Uniform Traffic Control Devices (CAMUTCD).
2. Dead-end barricade shall be installed after final paving and application of fog seal.
3. Install 18" x 18" OM4-1 per CAMUTCD figure 2C-13. Markers (9 unit red reflectors). Place one 8' each side of CL
4. Install 24" x 24" W31 End Sign at street CL.
5. All post shall be redwood or treated douglas fir.
6. Entire barrier shall be painted with 3 coats of outside white paint.
7. Attach grade AB exterior plywood, 1/2" smaller than sign, to back of sign with 5/16" dia. x 3/4" galv. carriage bolts with cut washer at the top & bottom. Attach signs to railing with 5/16" dia. x 2 1/2" galv. lag screws with cut washer. Plywood shall be 1/2" thick.
8. Each barricade shall have alternate reflectorized white and red stripes 6" wide & placed @ 45° angle. The entire area of white and red shall be reflectorized with a smooth sealed outer surface (3m "Scotchlite" or better) that will display the same approximate size, shape and color at night.

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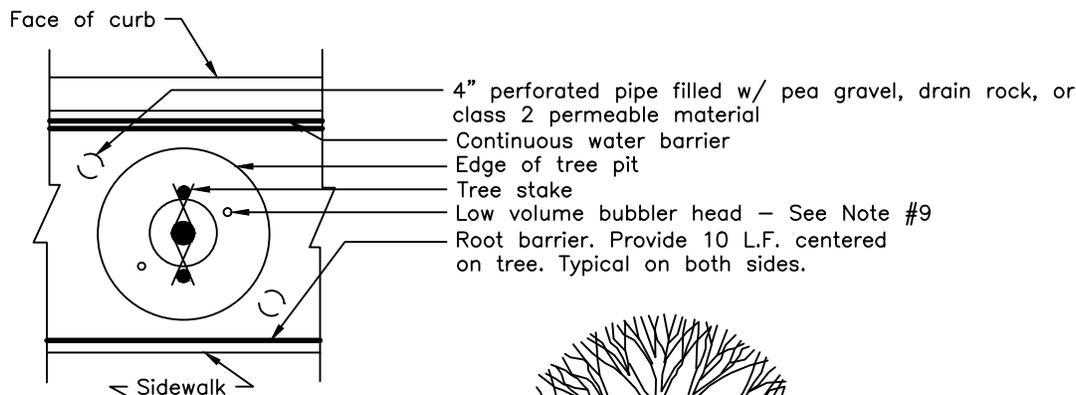
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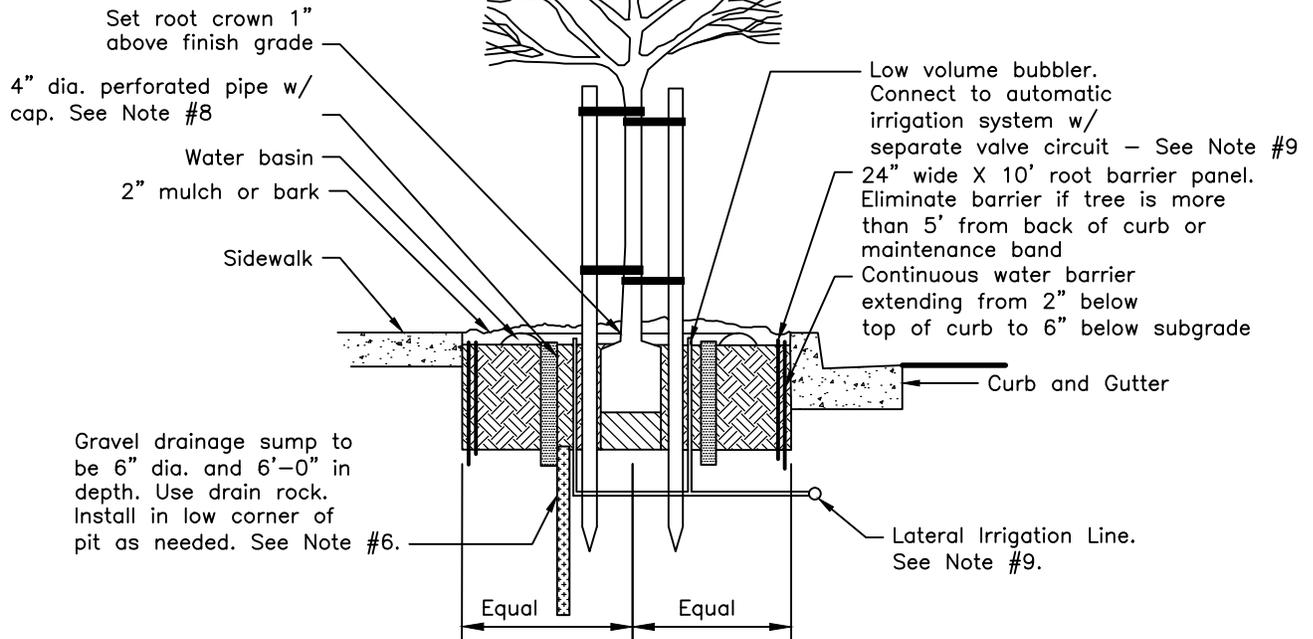


NOTES:

1. Place stakes plumb and as shown in stake location plan.
2. Trees shall not be root-bound. Carefully scarify rootball before planting.
3. Eliminate water basin when trees are planted in lawn.
4. Use wood stakes for 15 gallon trees only.
5. Tree pit shall be 3 to 5 times diameter of root ball in clay soils or hardpan conditions.
6. Tree pit percolation tests shall be performed in clay soils or hardpan conditions. Install drain sump if 6" of water does not drain from pit over a 12-hour period.
7. See additional guidelines which may apply to this detail.
8. Pipe to be 2' in length. Wrap w/ filter fabric and fill w/ pea gravel or drain rock.
9. If irrigation line is unavailable, install Treegator Original Double Bag Setup, or approved equal, for slow release watering.



STAKE LOCATION PLAN



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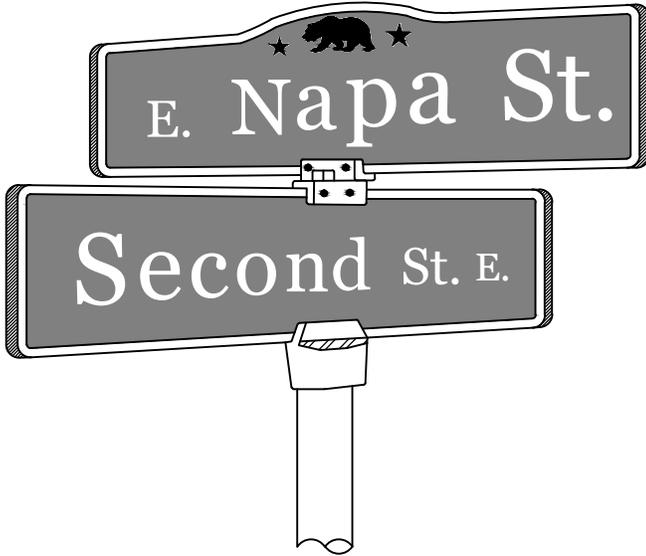
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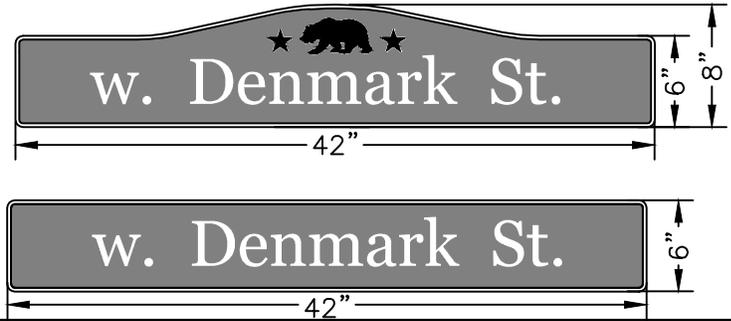
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STREET NAME SIGN SPECIFICATIONS



NOTES:

1. See Standard Plan 115 for installation detail.
2. See Standard Plan 606 or improvement plans for street name sign location.



SPECIFICATIONS

SIGN FACE – DOUBLE SIDED

- Color ————— White copy on brown background with white border. Gold/non-reflective logo; California bear and stars
- Copy ————— All copy shall be Clarendon Serif font. 4" upper case copy and 2" lower case copy.
- Film ————— 3M Company Diamond Grade (DG) Reflective Sheeting Series 4000, conforming to latest California Manual on Uniform Traffic Control Devices (CA MUTCD).

SIGN BLANK

- Material ————— Blanks shall be aluminum 6061T6 alloy with an alodine surface.
- Shape ————— Blank material shall be 0.125 inches thick.
Top sign – curved top; Bottom sign – rectangular
Blank shall have 1/2 inch radius corners.
- Size ————— Top sign: 8 inches h x 42 inches w
Bottom sign: 6 inches h x 42 inches w

SIGN INSTALLATION

- Post caps ————— Post caps shall be cast aluminum deeply grooved to securely hold sign on 2 inch galvanized pipe post without twisting. It shall be secured to the post with three (3) 5/16 inch allen-head set screws.
- Sign to sign separators ————— Sign separators shall be die-cast aluminum and constructed so as to separate two (2) signs, one above the other, at 90 degrees. Signs to be secured with four (4) allen-head set screws.

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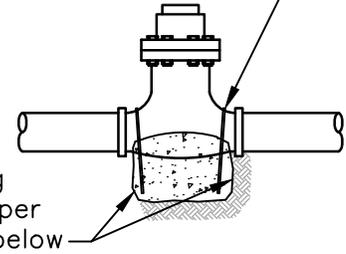
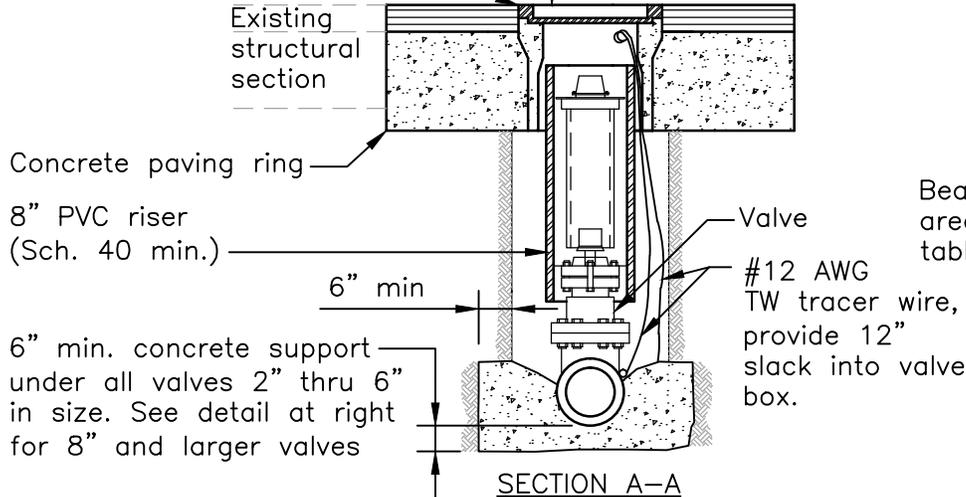
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WATER VALVE INSTALLATION

Adjust frame and cover to grade as per Std. Plan 116

Frame & Cover Christy G4 with G4C lid marked "WATER"

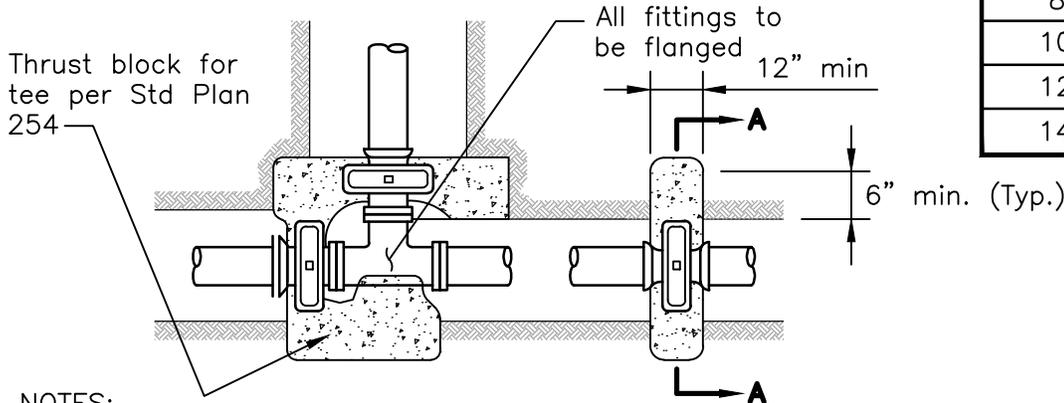
2-#5 reinf. bars. Embed 12" min in concrete. Exposed bars to be coated with asphalt paint



THRUST BLOCK AND SUPPORT

(8" and larger valves)

Valve Size (in)	Thrust block bearing area (ft ²)
8	5 min
10	8 min
12	12 min
14	16 min



NOTES:

1. Valves and fittings shall be temporarily supported prior to construction of concrete supports (redwood or pressure treated) and thrust blocks in a manner satisfactory to the Civil Engineer.
2. Backfill shall conform to Std. Plan 501.
3. Concrete shall be Class "B", per Caltrans specifications. Thrust blocks and supports shall be poured against undisturbed earth.
4. Water valves shall be resilient seated gate valves with non rising stem and 2-inch operating nut. (AWWA C-509) for 8" and smaller valves. Water valves 10" and larger shall be short body, Class 150-B butterfly valves with 2" operating nut. (AWWA C-504). Valves shall open counterclockwise.
5. Bolts and nuts for flanged connections shall be stainless steel.
6. Provide valve stem riser if operating nut is greater than 30" below finished grade.
7. All mechanical joints shall be restrained.

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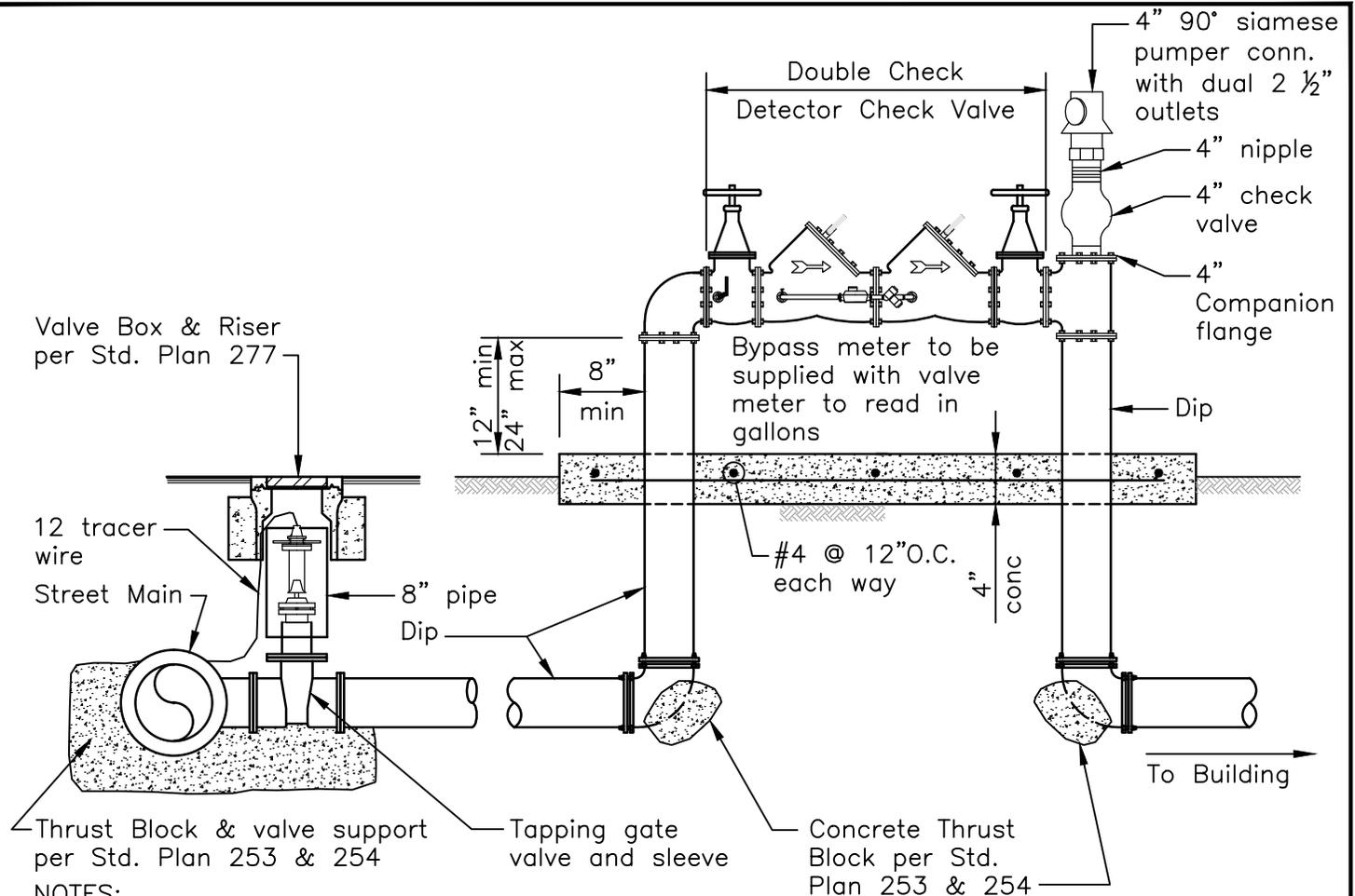
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PUBLIC WORKS DEPARTMENT

FIRE SPRINKLER SERVICE INSTALLATION - 4" THRU 8"



NOTES:

1. Gate Valves shall be operated by City Water Department personnel only.
2. Backfill shall conform to Std. Plan 501.
3. Concrete shall be Class "B". Thrust blocks shall be poured against undisturbed earth.
4. Water will not be turned on until installation is approved by City.
5. Water valves shall meet (AWWA C-509) with O.S. & Y.
6. Approved Double Check Detector. Check backflow assemblies shall be as shown on "List of Approved Backflow Devices" of latest revision, by the University of Southern California Foundation for Cross Connection Control & Hydraulic Research.
7. All Resilient valves must be chained and padlocked in open position. Chain size 1/4" or larger.
8. Double Check-Detector Check Assembly shall be located as close as possible to the sidewalk or public right-of-way.
9. Provide UL listed Fire Department Connection (FDC) with 4" check valve.
10. Restrained joints are required for all new construction from water main to 90° elbow on downstream side of double detector check. Thrust blocks shown and only required where existing services are being modified and restrained joints are not used.
11. Bollards are required in areas that are subject to vehicle impact or as required by the City Engineer.

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PUBLIC WORKS DEPARTMENT

WATER SERVICE OBSTRUCTIONS

Definitions

Obstructions (posts, fences, mail boxes, growth, trash, debris, storage, etc.).

Water Facility (meter boxes, valve boxes, blow offs, air vocs, backflow devices, or any other connection to the water mains of the water system).

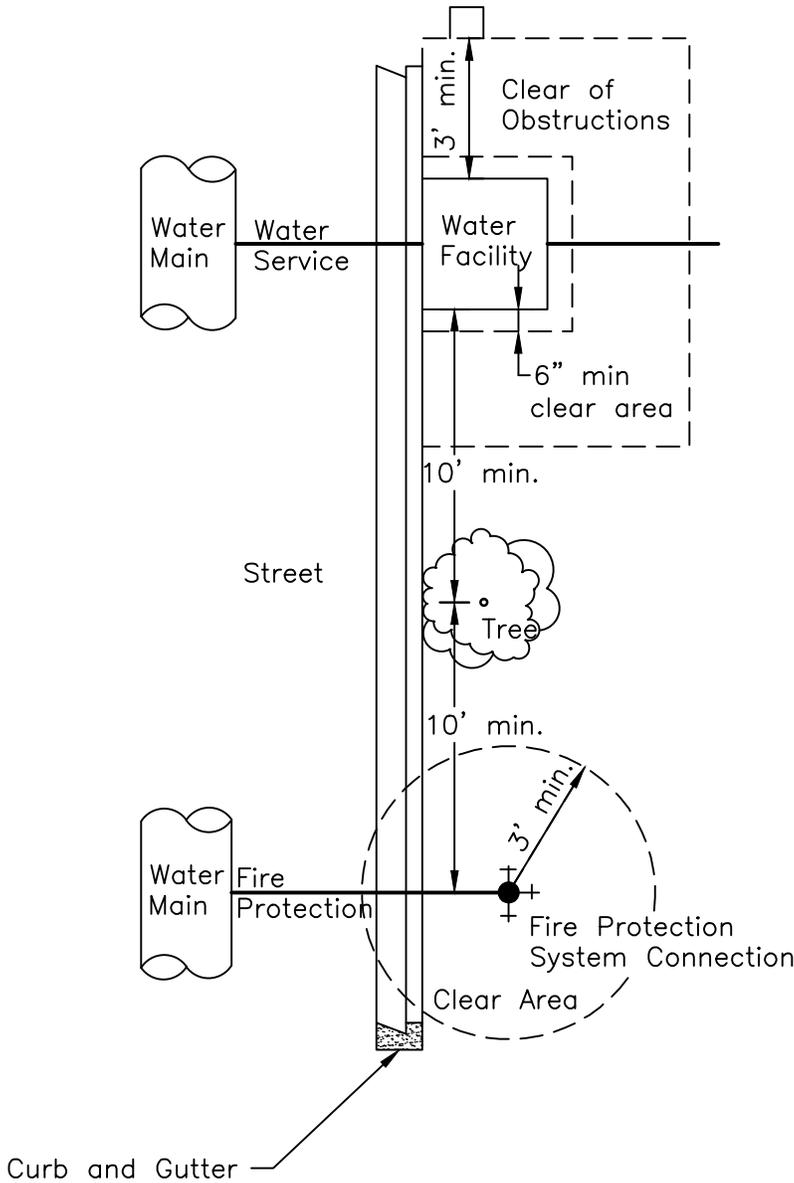
Clear Area (free of any obstructions, shrubs, debris, overgrowth, trash, vehicles, trailers, etc.).

Permanent Structures (trees, large shrubs, foundations, or any other permanent structure).

Fire Protection System Connection (fire hydrants, fire services, fire connections, backflow devices, or any other connections on the fire protection system).

Requirements

1. No obstruction may be placed in front of or within 3 ft. around and 6 ft. above any water facility as to deter or hinder free immediate access at all times.
2. A clear area 6 in. around and 6 ft. above any water facility shall be maintained by the customer.
3. No trees, foundations, or any other permanent structures shall be allowed within 10 ft. of any water facility or fire protection system connections.
4. No large shrubs shall be allowed within 5 ft. of any water facility or fire protection system connections.
5. A clear area 3 ft. around and 6 ft. above any fire protection system connection shall be maintained by the customer.



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PUBLIC WORKS DEPARTMENT

STREET LIGHTING GENERAL NOTES

GENERAL NOTES

1. The developer or his engineer shall make arrangements for service points with the Pacific Gas and Electric Company (PG&E). The developer shall be responsible for all costs associated therewith which shall be paid directly to PG&E. The contractor shall verify the street light service point locations with PG&E prior to installation.
2. All street lighting materials and workmanship must meet the standards and requirements of PG&E and shall be acceptable to PG&E for use in systems maintained by that company. All workmanship and materials must also be satisfactory to the City Engineer.
3. Each luminaire shall have an individual photoelectric control (twist lock type) and shall be adjusted for the IES light distribution specified on the plans.
4. Lamp wattage shall be identified by use of 3" x 3" decal located on the lower side of the luminaire behind the refractor.
5. LED devices shall be 240-volt electronic type.
6. All underground conductors shall be placed in 1-1/2" P.V.C. Sch. 80 conduit. Minimum radius of conduit bends shall be 18". No field bends of plastic conduit will be permitted.
7. Minimum cover of underground conduit shall be 24" in sidewalk areas and 30" in all other areas.
8. All splices to be approved solderless waterproof connectors of proper size.
9. All material shall be new and shall be in perfect condition after installation.
10. Materials, workmanship and installation shall conform with all requirements of the legally constituted authorities having jurisdiction and with all applicable codes and regulations.
11. All electrical materials shall be as recognized by the Underwriters Laboratories, Inc., shall bear the Underwriters Laboratories, Inc. label and/or be listed by the laboratories, whichever is applicable.
12. All conductors shall conform to the latest requirements of the National Electric Code and be labeled by Underwriters Laboratories, Inc. Wire size, insulation type and manufacturer's name shall be permanently marked on the conductor jacket at regular intervals. Wire shall be color-coded with a separate color for each phase. White shall be used for neutral conductors only, and green shall be used for the equipment ground conductors. Conductors shall be AWG #10 or larger, XHHW insulated copper.
13. All poles, conduit and other facilities shall be properly grounded in accordance with applicable codes and accepted practice. Ground wires and bonding jumpers shall be AWG #6 bare copper wire or equivalent.
14. The contractor shall inspect and make necessary tests which the City Engineer may request to insure that the electrical equipment is installed correctly and that the wiring systems are free of all shorts, grounds, and faulty connections and have insulation resistance between conductors and grounds of not less than the requirements of the National Electric Code.
15. All work and materials are subject to inspection and approval by the City Public Works Department (938-3794). The contractor shall contact the Public Works Department to determine when inspections will be required and shall then provide the Department 24 hours notice prior to the need for required inspections.
16. Except as otherwise provided, the following PG&E drawings shall be applicable to street lighting projects in the City of Sonoma:
 - Dwg. No. 015132 Sht. Nos. 1 and 3 - Street Light Installation on Wood
 - Dwg. No. 015133 Sht. No. 1 - Mast Arms for Street Lighting
 - Dwg. No. 015134 Sht. Nos. 1 and 2 - Brackets for Street Lighting
 - Dwg. No. 015136 Sht. Nos. 1, 2, 4, 9 and 15 - Street Lighting Poles
 - Dwg. No. 015137 Sht. Nos. 1, 2, and 3 - Identification of Street Light Luminaires

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CITY ENGINEER

APPROVED BY


PUBLIC WORKS DIRECTOR

8-17-15

DATE

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STREET LIGHTING GENERAL NOTES

GENERAL NOTES

17. LUMINAIRES – Luminaires shall be LED "cobra head" style fixtures with a Correlated Color Temperature (CCT) of 4000k and a Color Rendering Index (CRI) of 70+. Luminaires shall be mounted to pole using a horizontal tenon arm. Luminaires installed on residential streets shall have a Type II, medium-throw light distribution, and a Type III medium-throw light distribution for non-residential applications. Driver shall be suitable for input voltages between 120VAC and 277VAC. Luminaire enclosure shall be silver in color. Luminaires shall be suitable for exterior street lighting use, and be manufactured by Cree or equal.

PG 2 of 2

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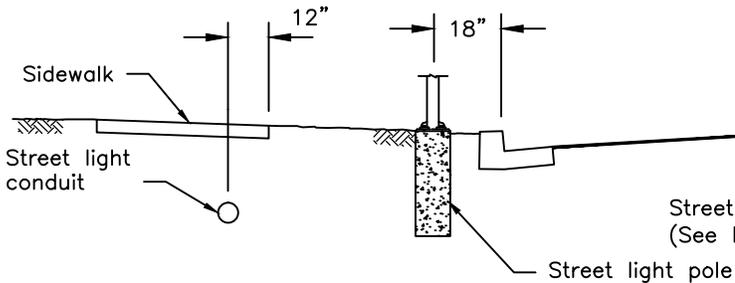
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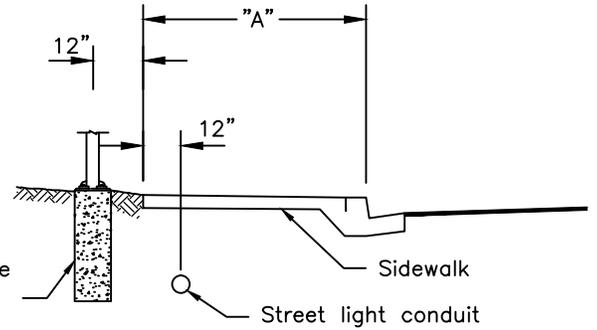
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STREET LIGHT POLE AND CONDUIT STANDARD LOCATIONS



TYPE A SIDEWALK (STD. PLAN 108)



TYPE B SIDEWALK (STD. PLAN 110)

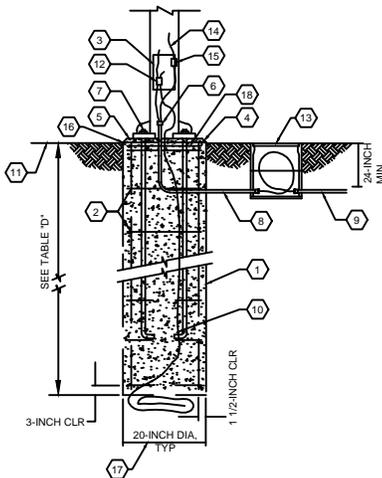
Notes:

1. Where "A" is less than 5' street light pole will be located behind sidewalk. Where "A" is 5' or more pole will be located behind curb in same location as for Type A sidewalk.
2. The minimum cover of conduit shall be as specified on Std. Plan 400.
3. Location of conduit will vary from that shown hereon if so specified on specific project plans or if placed in a joint trench with other underground utilities.

Table "D"	
Pole Height	Pole Base Depth (Min.)
>10 ft	36-inch
10 - 30 ft	48-inch
30 ft	60-inch

Detail Notes:

- 1 Poured in place round concrete support base.
- 2 4- no. 6 vertical bars with no. 3 ties @ 8-inch o.c.
- 3 Access hand-hole.
- 4 3/4-inch - 45° chamfer all around.
- 5 Grout in all around between bottom of pole base following pole erection and final leveling. See 16.11 light details.
- 6 Stub conduit up into pole base wiring cavity. (If RGS terminate with grounding bushing.)
- 7 Provide support and leveling nuts on top and bottom of pole base mounting plate. Mounting plate and mounting bolts shall be per manufacturers bolt pattern, length shall be per manufacturers specifications.
- 8 Typical pvc conduit, 3/4-inch min, with conductors as indicated on drawings.
- 9 Typical incoming exterior branch circuit conduit and wiring from U.G. conduits.
- 10 (1) #4 awg bare copper ground. Coil 30-inch at bottom of foundation.
- 11 Top of sodded grade, sidewalk or asphalt paving as indicated on the respective area site plan.
- 12 Bolted type wire ground connector.
- 13 Reinforced, precast grade mounted electrical box, Christy B1017 or equal. Provide with open bottom. All splices shall be made in the pull box and shall be waterproof, cast type.
- 14 Wiring to light fixture. Connect complete.
- 15 Waterproof in-line fuses.
- 16 Top of pole base shown at grade level. Slab details 3, 4, 5 and 6/L6.11 for foundation detail at finish grade and adjacent conditions. Where there are existing pole mounted fixtures on the job site, increase height of concrete to match existing. Maintain minimum embedment depth.
- 17 Where there are existing pole mounted fixtures on the job site, modify diameter of pole base to match existing. Minimum diameter shall be 18-inch.
- 18 Lateral reinforcement shall be distributed within 5 inches of the top of the column and shall consist of 2-no. 4 or 3-no.3 bars. (per aci318-7.10.5.6)



Light Pole Foundation
N.T.S

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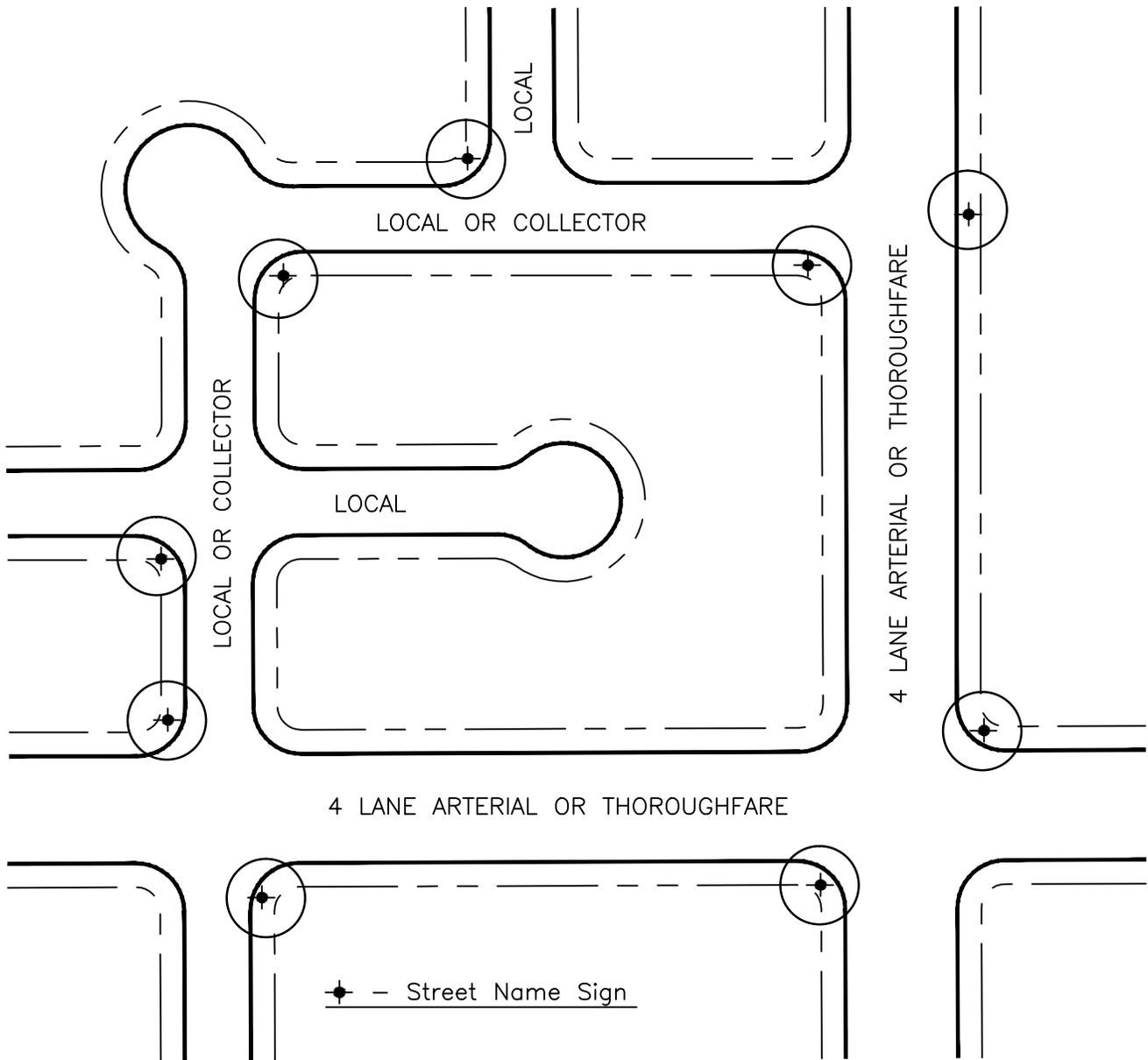
401



City of Sonoma

PUBLIC WORKS DEPARTMENT

STANDARD STREET SIGN LOCATION



NOTES:

1. Place one (1) street sign at intersection of two LOCALS.
2. Place two (2) street signs at the intersection of a LOCAL or COLLECTOR with a 4 LANE ARTERIAL or THOROUGHFARE.
3. Place two (2) street signs at the intersection of any 4 LANE ARTERIALS or THOROUGHFARES.

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