# STANDARD PLANS



**Prepared By:** 

City of Oakley Public Works & Engineering Department

> MAY 2024 Volume III



3231 Main Street Oakley, CA 94561

# Introduction

The City of Oakley presents the third volume of Standard Plans developed by the Public Works and Engineering Department. The City of Oakley has adopted the Caltrans Standard Plans and Contra Costa County Standard Details, but the City of Oakley Standard plans are specific to the City's public improvements. The City Standard Plans will govern between conflicting details with Caltrans and Contra Costa County standard details.

These drawings shall be used in conjunction with the latest edition of the Caltrans Standard Specifications, Standard Specifications for Public Works Construction (i.e. "The GREENBOOK"), and project specific City of Oakley Specifications.

All details pertaining to the design of potable water, recycled water, and sanitary sewer systems shall be reviewed and approved by Diablo Water District and Ironhouse Sanitary District respectively.

All curb ramps and accessible routes shall conform to Caltrans Standards, Americans with Disabilities Act Accessibility Guidelines (ADAAG), and Title 24 of the California Building Code.

A hard copy of the City of Oakley Standard Plans is available for purchase at the City of Oakley located at 3231 Main Street, Oakley, CA 94561.

# Comments

The City of Oakley is committed to the quality of this publication and desires to correct any errors, omissions, or ambiguities in the next publication of this document. If you have any comments, corrections, or additions you would like to submit for consideration to be included in the next publication, you are encouraged to submit them to:

City of Oakley Public Works and Engineering Department 3231 Main St. Oakley, CA 94561 925-625-7037 publicworks@ci.oakley.ca.us

# **Table of Contents**

### Streets

Typical Sections- Major Roads	X-01
Typical Sections- Residential	X-02
Street End Layout	X-03
Driveway and Intersection Sight Triangles	X-04
Concrete Curb & Gutter	C-01
Concrete Vertical Curb	C-02
Concrete Divider / Mowing Band	C-03
Concrete Sidewalk- Monolithic & Separated	C-04
Concrete Driveway with Planter	C-05
Concrete Driveway without Planter	C-06
Concrete Driveway to Sidewalk Reconstruction	C-07
HMA Conform Details	C-08
Speed Hump	C-09

### **Storm Drain**

Curb Drain	SD-01
Concrete Valley Gutter	SD-02
Pipe Trench Detail	SD-03
Pipe Trench Notes	SD-04
Manhole / Catch Basin & Valve Box Adjustment	SD-05
Standard Manhole	SD-06
Manhole Frame and Cover	SD-07
Type I Curb Inlet	SD-08
Type II Inlet	SD-09
Type III Inlet Landscape Area / Park Inlet	SD-10
Reticuline Frame & Grate	SD-11
Storm Drain Marker	SD-12

### Electrical

Street Light- Cobra Head Double LED	E-01
Street Light- Cobra Head Single LED	E-02
Street Light- Decorative Double LED	E-03
Street Light- Decorative Single LED	E-04
Signal Specifications and Equipment List	E-05

# **Table of Contents**

# Signs

Street Name Sign- Major Street	SS-01
Street Name Sign- Minor Street	SS-02
Street Name Sign- Location and Mounting	SS-03

### Landscape

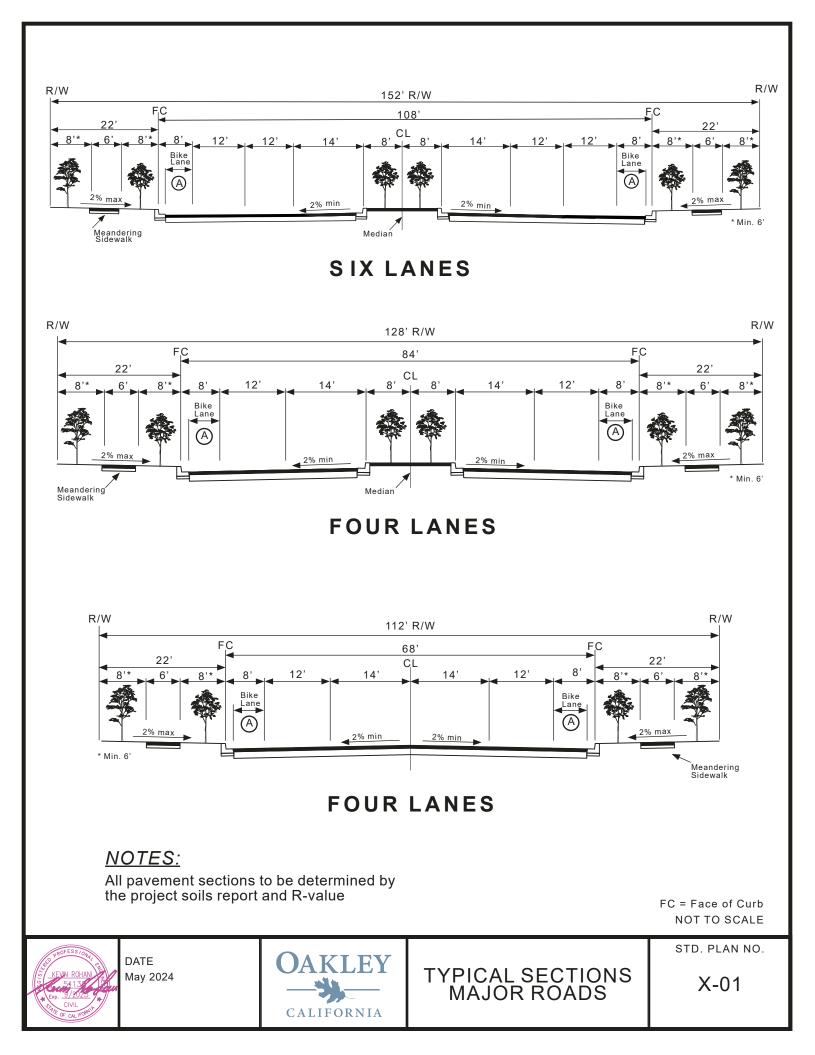
Preferred Tree List	L-01
Tree Planting Specifications	L-02
Tree Planting	L-03
Root Barrier	L-04
Shrub Planting	L-05
Plant Spacing	L-06

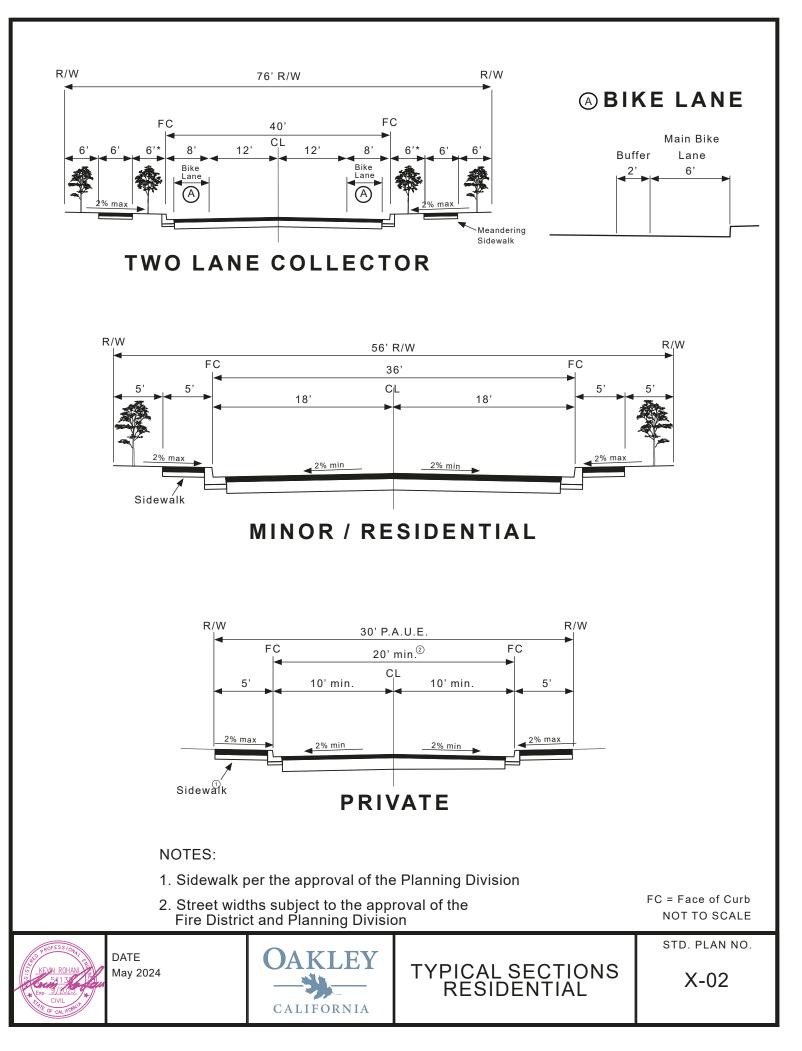
# Irrigation

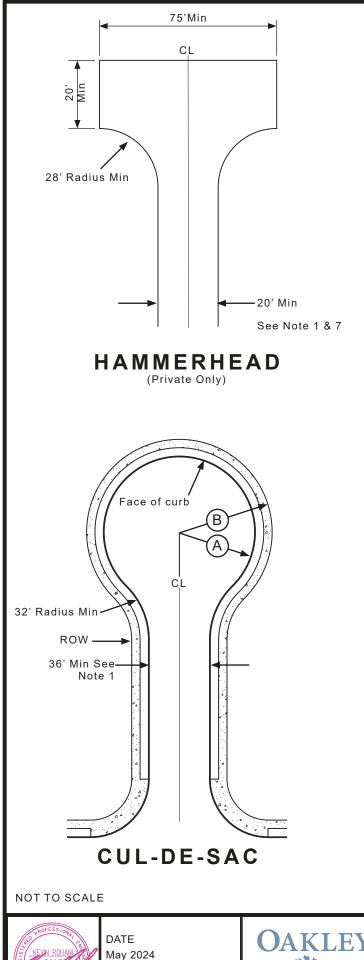
Irrigation Equipment List	IR-01
Irrigation Electrical Meter Pedestal	IR-02
Controller Assembly	IR-03
Controller Grounding	IR-04
Grounding Rod	IR-05
Master Valve	IR-06
Flow Sensor	IR-07
Trenching	IR-08
Thrust Blocks	IR-09
Gate Valve (4 inch & larger)	IR-10
Gate Valve (3 inch & smaller)	IR-11
Quick Coupling Valve	IR-12
Valve Box Installation	IR-13
Splice Box / Pull Box	IR-14
Irrigation Wire Connection	IR-15
Remote Control Valve	IR-16
Remote Control Valve with Filter Kit	IR-17
Pop-up Rotor Head	IR-18
Pop-up Spray Head	IR-19
Bubbler	IR-20

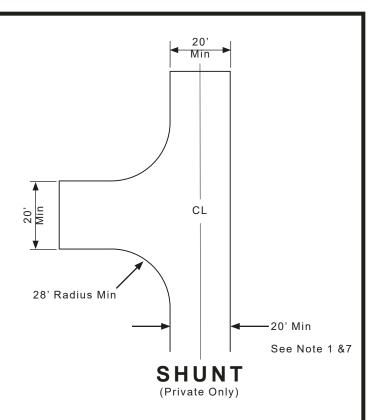
## Miscellaneous

M-01
M-02
M-03
M-04
M-05
M-06









	Rad	lius
<u>Road Type</u>	A	B
Residential Street	45'	55'
Commercial /Industrial Street	55'	65'

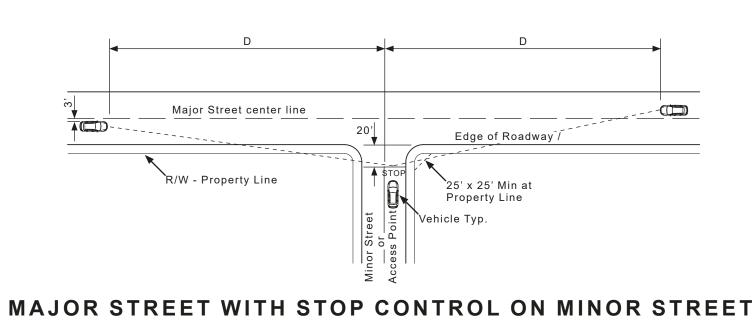
- 1. Minimum roadway widths: 20 ft - no parking
  - 32 ft parking on one side 36 ft - parking on both sides
- 2. Cross slope within turnaround shall not exceed 8% grade.
- 3. Surface shall be all-weather and capable of supporting a 37 ton vehicle.
- 4. Cul-de-Sac shall have standard curb and gutter, See Std Plan C-01.
- 5. Standards are minimum City requirements subject to Fire District approval.
- 6. No parking signs must be installed where parking is restricted.
- 7. Dead-end access roads over 150' in length shall comply with ECCCFPD Ordinance 2019-02.

NOT TO SCALE

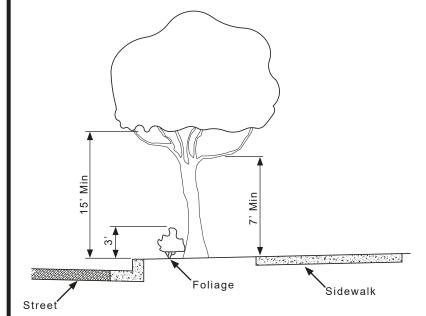


STD. PLAN NO. STREET END LAYOUT OPTIONS

X-03



<u>Major Road Posted</u> <u>Speed Limit (MPH)</u>	<u>D Minimum</u> Distance (ft)*
25	280
30	335
35	390
40	445
45	500
	*AASHTO Green Book



- 1. Foliage at maturity and berm, if any, shall not exceed 3 feet in height.
- 2. A visual clearance from the street to 15 feet in height shall be maintained with all tree foliage within the sight triangle.
- 3. A visual clearance from the sidewalk to 7 feet in height shall be maintained with all tree foliage within the sight triangle.
- 4. Site specific sight triangle exhibit to be provided upon request by the Public Works and Engineering Department.
- 5. Refer to the AASHTO Green Book, Section 9.5 Intersection Sight Distance, for additional guidance.

NOT TO SCALE STD. PLAN NO.

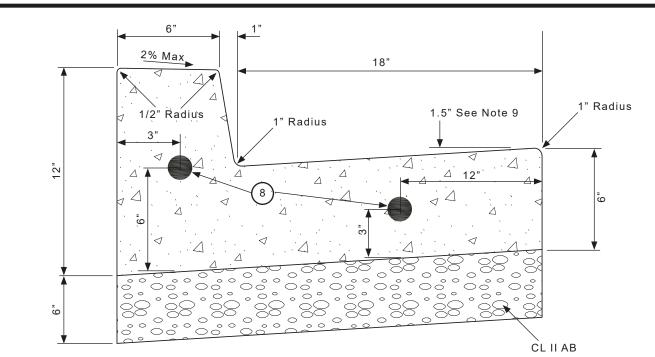


DATE May 2024





X-04



- All radii less than 100' shall use flexible wood or metal forms to eliminate angular points at 10' section points.
- 2. Saw-cut and remove 18" minimum street section for curb and gutter installation on existing streets. Plug 18" AC overcut with a minimum of 6" thick HMA.
- 3/4" expansion joints driveway sections, curb returns, curb ramps, and cold joints or a maximum of 30' center to center. Expansion joints shall protrude 1" below the bottom of the gutter. Slip joint dowels (1/2" x 12") to be used bridging required expansion joints.
- 4. Thru joints shall be placed adjacent to catch basins, inlets at point s of tangency on streets, and at alley and driveway returns. Maximum spacing shall be 30' pre-molded joint filler, shall be 1/2" wide and conform to AASHTO design M213. Dummy joints shall be placed every 10'.
- 5. Finished work shall not vary more than 1/8" in grade and 1/4" in alignment.
- 6. The finished curb shall immediately be sprayed with transparent curing compound. Curb shall be covered by waterproof paper or plastic membrane in the event of rain or other unsuitable weather. Curing time shall be a minimum of 72 hours.

- All curb and gutter shall be placed on a minimum of 6' Aggregate Base Class II 95% maximum compaction ASTM D1557 or per the direction of the City Engineer.
- 8. #4 Rebar shall be extended along full length of the curb and gutter with a 2' overlap at end of rebar. Longitudinal rebar should start and stop at required expansion joints.
- Gutter pan slope shall not exceed 5% at pedestrian curb ramp entry locations. Contractor shall use 1.2" maximum between lip of gutter flow line at these locations.
- 10. All concrete shall be per current Caltrans Specifications Section 73 "Concrete Curbs and Sidewalks" and Section 90 "Concrete". Concrete shall include 1 pound of liquid lamp black per cubic yard of concrete. Liquid lamp black color shall be "Davis A 8090 Black" or equal.
- 11. All curb and gutter shall have 2 #4 Rebar the entire length and embedded on both ends using dowels (one dowel in the center of the gutter; one dowel in the center of the curb).

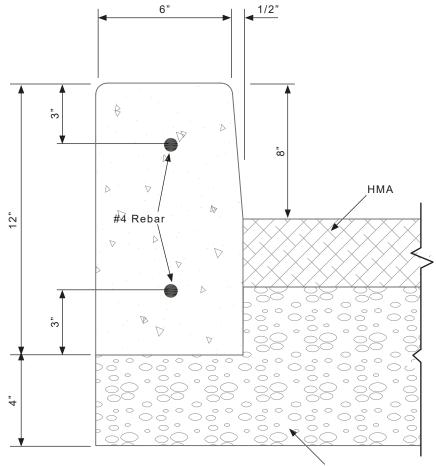


DATE May 2024



CONCRETE CURB AND GUTTER NOT TO SCALE

STD. PLAN NO. C-01



СL II АВ

- 1. The construction notes of Standard Plan C-01 apply to concrete vertical curb.
- 2. Median islands shall have 8" vertical clearance from Top of Curb to Pavement.
- 3. Plug 18" AC overcut with a minimum of 6" thick HMA.
- 4. Slip joint dowels (1/2" x 12") to be used bridging required expansion joints.
- 5. Longitudinal rebar should start and stop at required expansion joints.



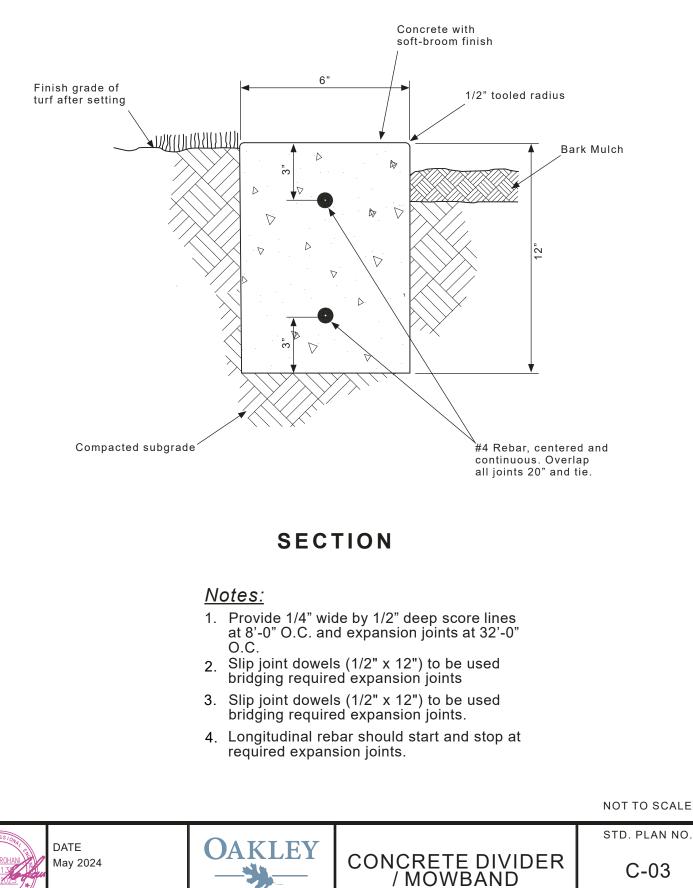
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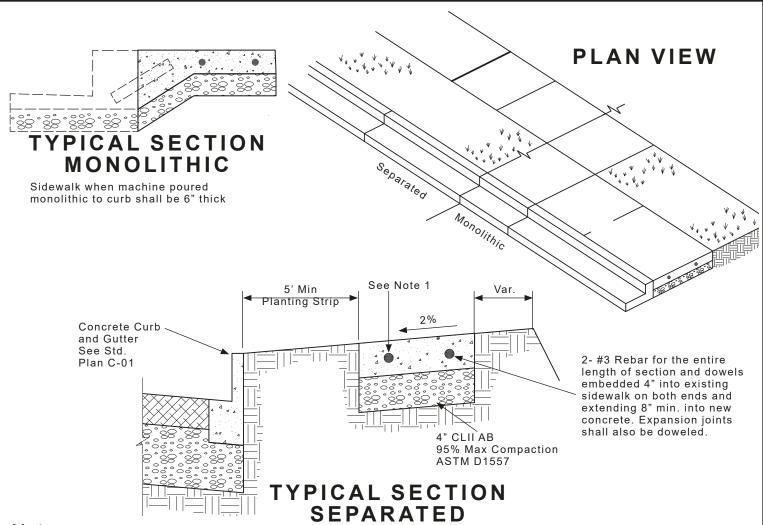
CONCRETE VERTICAL CURB NOT TO SCALE



C-02



CALIFORNIA



- Sidewalk shall be a minimum of 4". All concrete shall be per current Caltrans Specifications Section 73 "Concrete Curbs and Sidewalks" and Section 90 "Concrete". Concrete shall include 2 pounds of liquid lamp black per cubic yard of concrete. Liquid lamp black color shall be "Davis A 8090 Black" or equal.
- 2. Full Expansion Joints shall be placed to match those placed in adjacent Curb and Gutter, with maximum spacing of 30 ft.
- 3. Native subgrade shall have 90% minimum compaction and AB subgrade shall have 95% minimum compaction ASTM D1557 or per the direction of the City Engineer.
- Sidewalk shall be at least 6" thick behind Rolled Curb and Residential Driveways and 8" thick behind Commercial Driveways.

- 5. The finished sidewalk shall be sprayed with a transparent curing compound covered by waterproof paper or plastic sheeting in the event of rain or other inclement weather; curing time shall be for a minimum of 72 hours.
- 6. All joints shall be cleaned and edged with an edger having a 1/4" radius.
- 7. Sidewalk and planter strip widths shall conform to dimensions shown in appropriate street cross section details.
- 8. The width of the sidewalk directly behind curb without planter shall be a minimum of 5' from back of curb.
- 9. Exposed surfaces shall be a medium broom finish.

SU FOTESSION

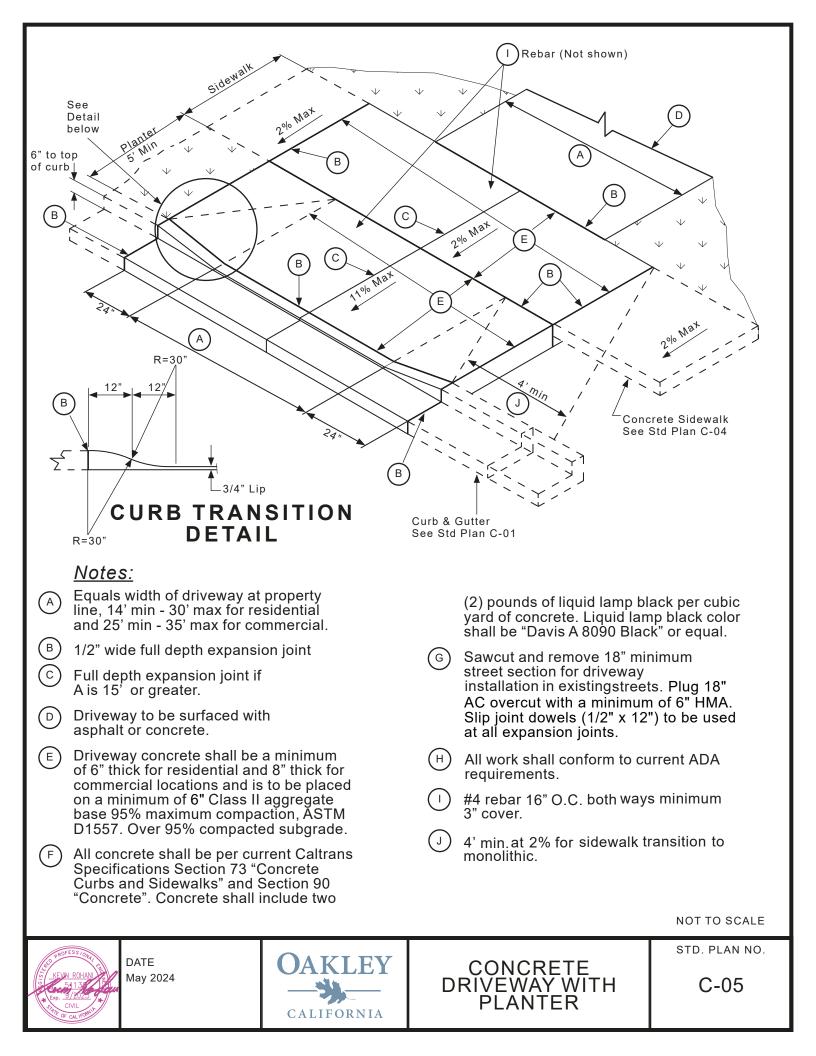
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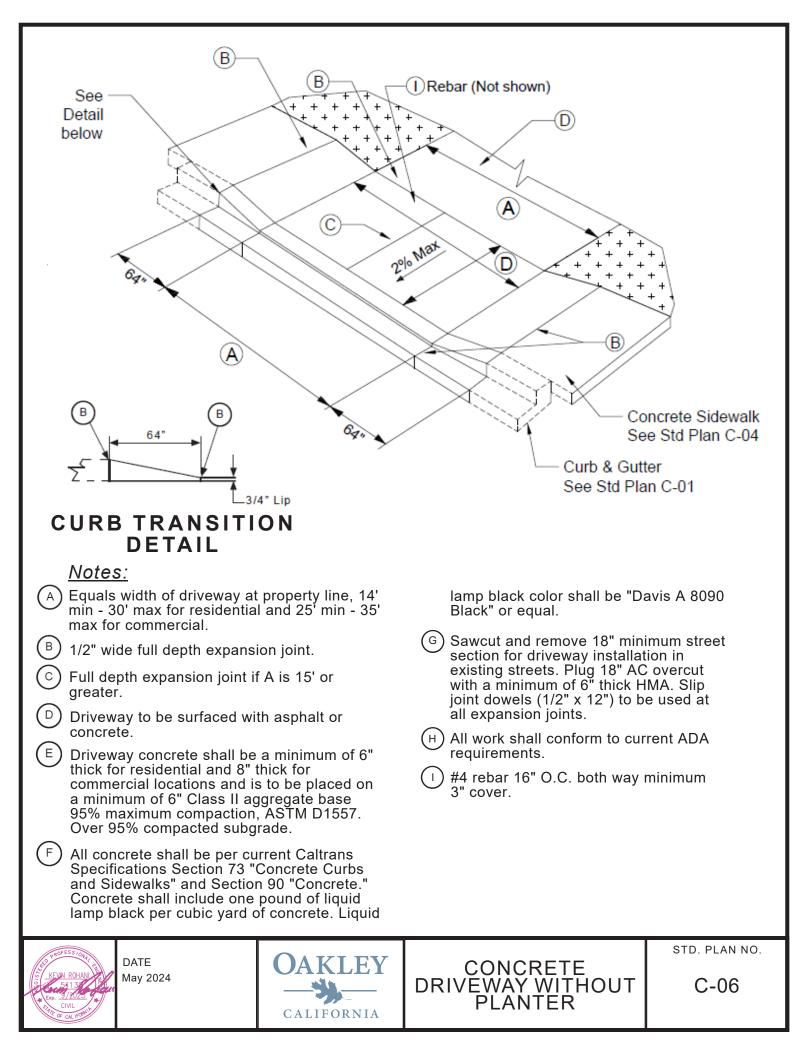


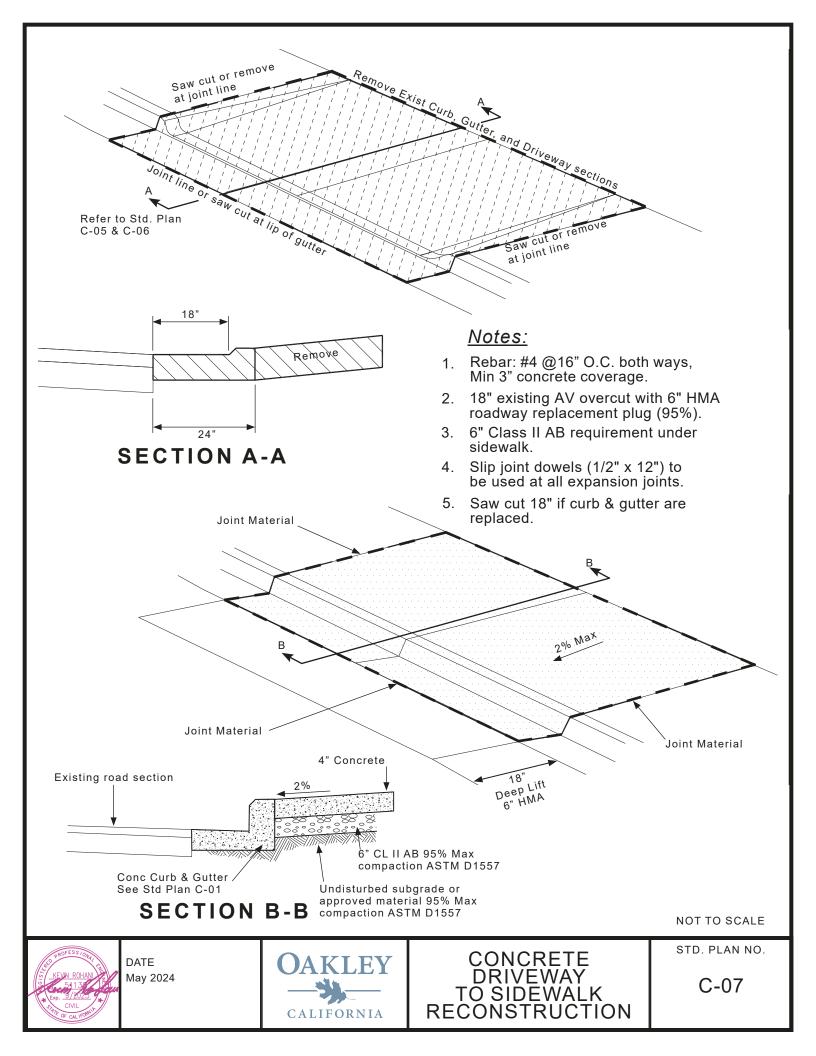
CONCRETE SIDEWALK MONOLITHIC AND SEPARATED NOT TO SCALE

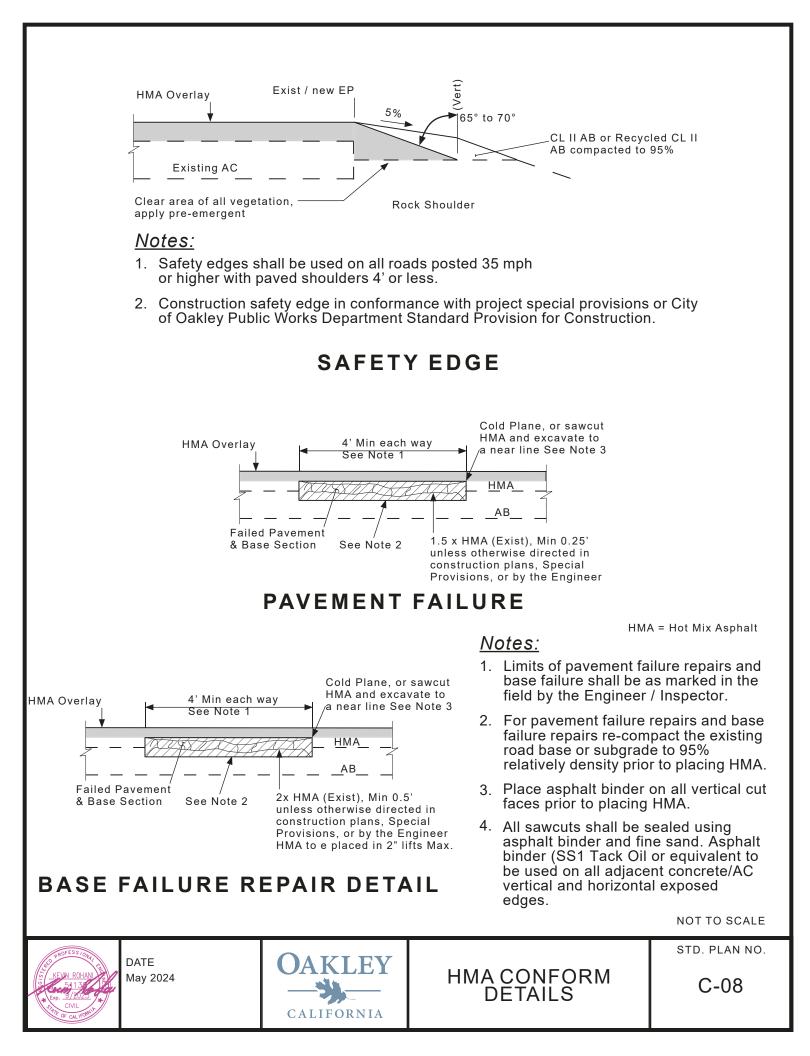


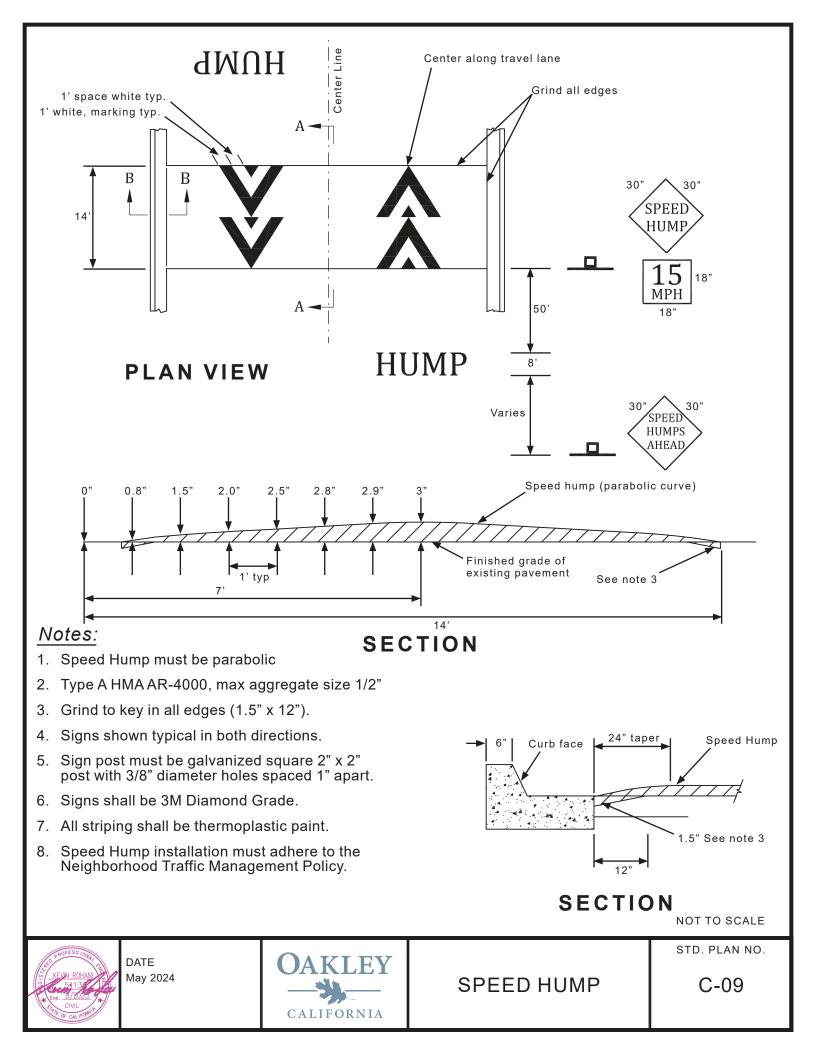
C-04

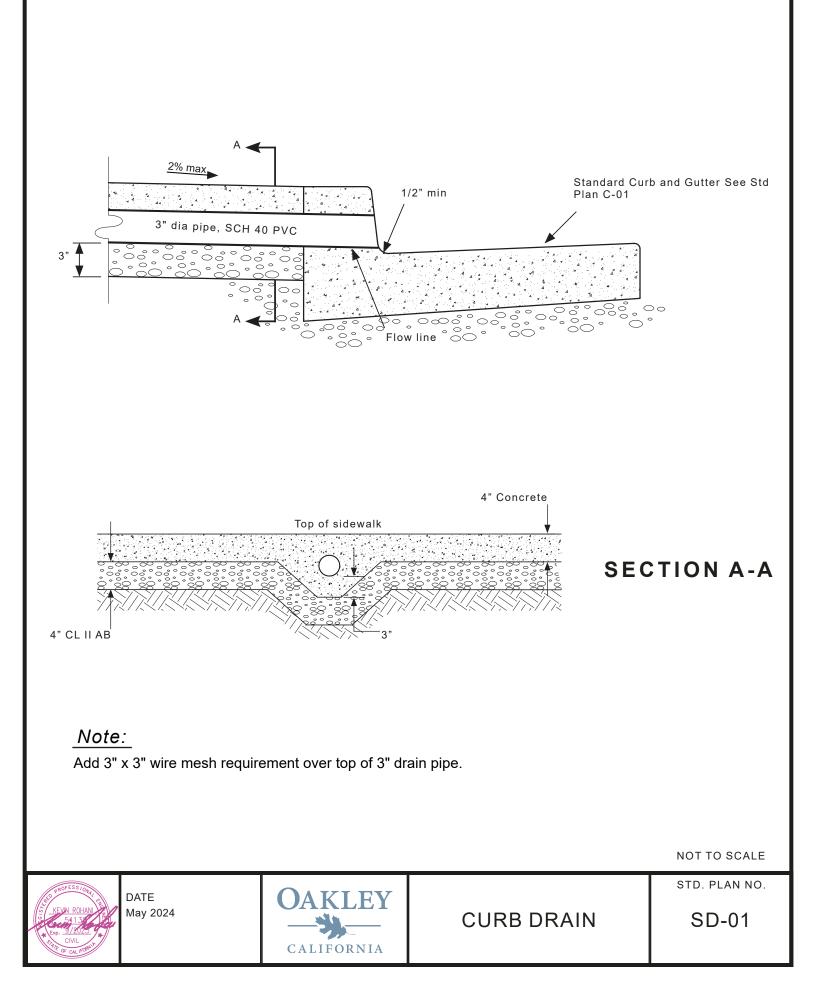


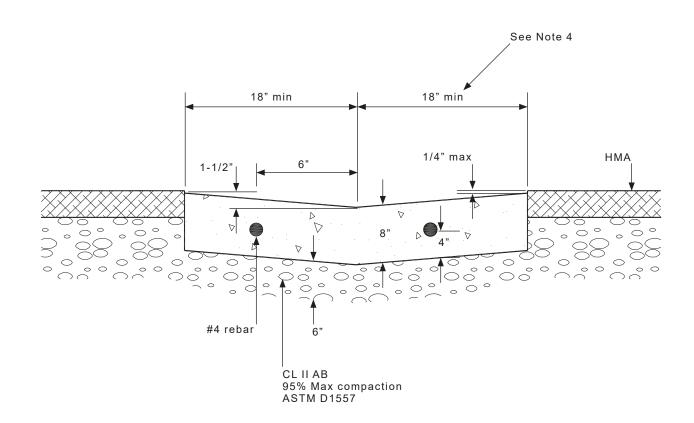












- Expansion joints with 1/2" x 12" slip. Tie #4 longitudinal rebar to slip dowels at expansion joints.
- 2. Dowelsat 20 foot intervals.
- All concrete shall be per current Caltrans Specifications Section 73 "Concrete Curbs and Sidewalks" and Section 90 "Concrete". Concrete shallinclude one pound of liquid lamp black per yard of concrete. Liquid lamp black color shall be "Davis A 8090 Black or equal.
- 4. Valley Gutter width must be designed to meet collect and convey requirements to meet capacity for storm drain.

NOT TO SCALE

STD. PLAN NO.

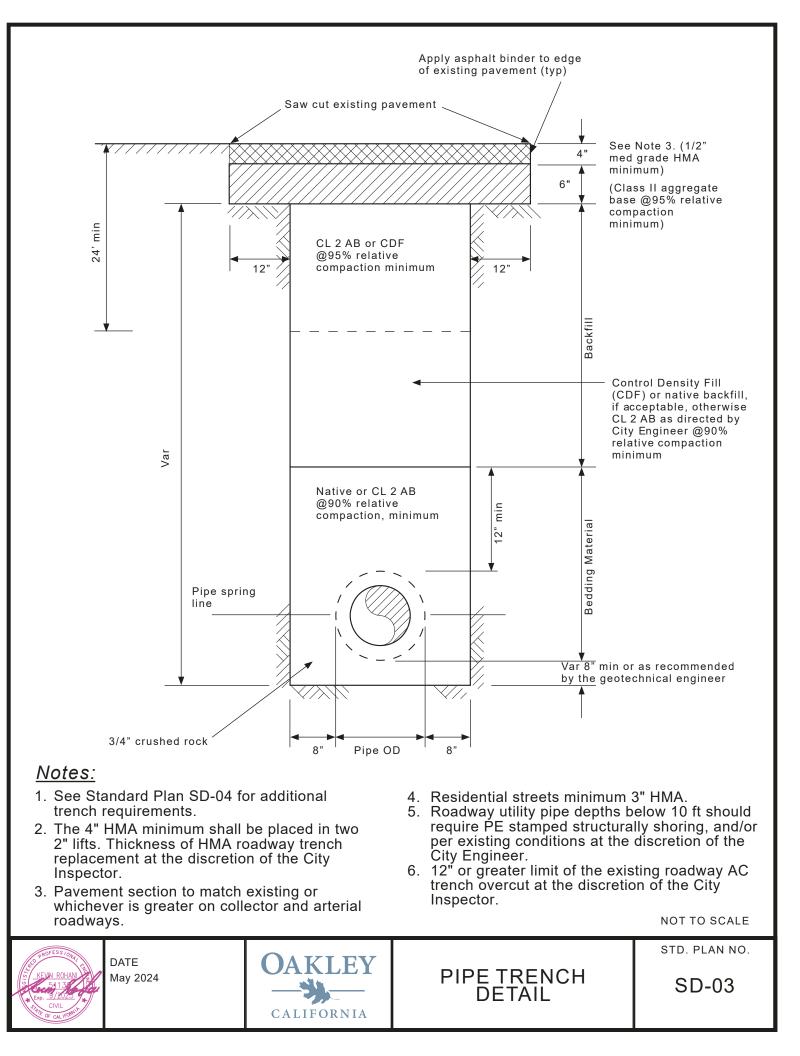


DATE May 2024





SD-02



# **BEDDING MATERIAL**

Granular bedding material requirements Caltrans durability index minimum 30

# STRUCTURAL BACKFILL

Structural backfill requirements percent passing Minimum Sand Equivalent of 20

• ····· · ····· · ····· · · ····· · · · ·			
<u>Sleeve Sizes</u> 1" 3/4" 3/8" #4 #8	<u>Percentage Passing</u> 100 90-100 20-55 0-10 0-5	<u>Sleeve Sizes</u> 1-1/2" 3/4" #4" #30 #200	Percentage Passing 100 80-100 30-60 5-35 0-12

#### <u>Notes</u>

- All backfill material shall be placed in lifts not to exceed 6 inches before compaction unless authorized by the City Engineer.
- 2. Mechanical compaction of backfill material shall not begin until the depth of compacted backfill material is 2 feet above the top of pipe.
- 3. Each lift shall be mechanically compacted to the required density prior to placing succeeding lifts of backfill material.
- 4. Compaction tests shall be as required by the city construction inspector, but in no case less than 2 tests every 200 feet of trench.
- 5. In-place density will be determined by one or more of the following methods.
  (A) ASTM D1557, test for density of soil in place by the sand <sup>15</sup>. cone method.
  (B) ASTM D2922- Nuclear method.
- 6. Laboratory density will be determined by ASTM D 1557, Moisture-Density Relations of soils and soil-aggregate mixtures.
- 7. If the edge of the trench falls within 3 feet of the gutter, the entire pavement shall be removed to the gutter.
- 8. On steep slopes, construct clay or concrete dam through the bedding material as determined by the City Engineer.
- For concrete streets place 6 inches of Class A Portland Cement Concrete over 6" of Class 2 Aggregate Base for finished surface.
- 10. All trench construction shall be in compliance with latest OSHA Standards.
- 11. Place permanent pavement within 7 days after backfilling. Temporary cutback allowed for 7 days maximum, prior to final HMA. Time adjustments per review of the existing scope of work at the City Inspector's discretion Install hot, temporary Asphalt Concrete (AC) to finish grade until permanent Hot Mix Asphalt (HMA) is placed.

- 12. If existing HMA section is less than 4", grind AC to full depth of existing AC and replace full depth of HMA section (4" minimum).
- 13. In paved streets, all cuts shall be smooth and vertical with the area being generally rectangular. Native material may be used as backfill if approved by the City Engineer. If sand backfill is used, it must be well graded, tamped with vibratory compactor, if needed.
- 14. A 6" course of CL II AB and 3" HMA is minimum surface to be restored. No restoration shall be less substantial than existing composition. In cases of concrete streets, a 6" thickness of concrete on a 6" CL II AB is the minimum standard.
  - All storm drain pipes shall be ADS High Performance Polypropylene (PP) Dual-gasketed wall pipes or as approved by the City Engineer. Thickness of HMA roadway trench replacement at the discretion of the City Inspector.

NOT TO SCALE STD. PLAN NO.

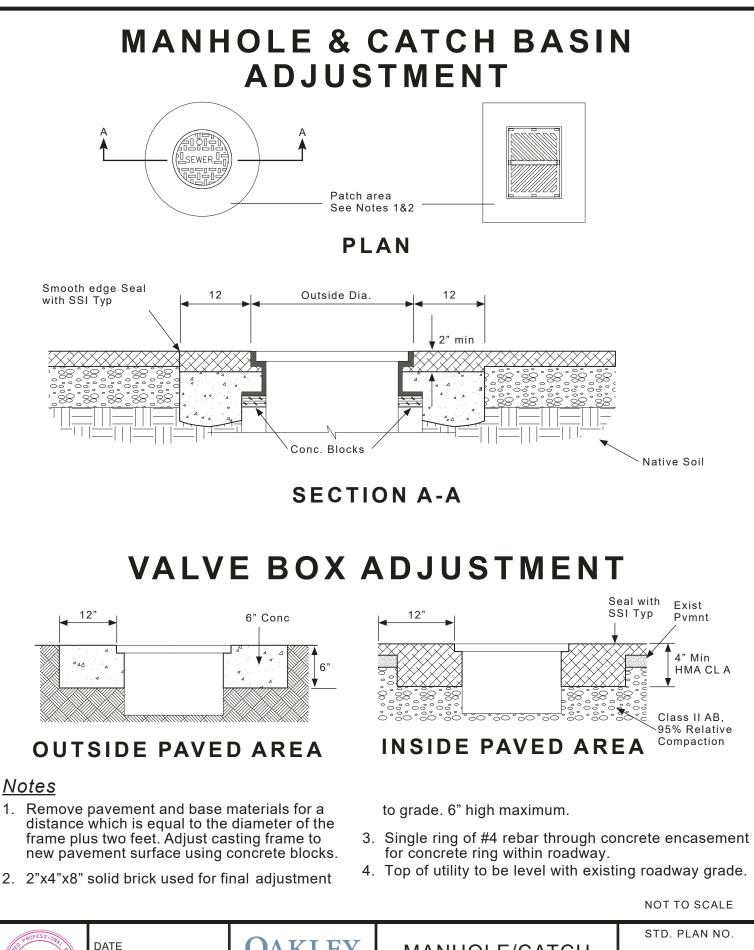


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PIPE TRENCH NOTES

SD-04

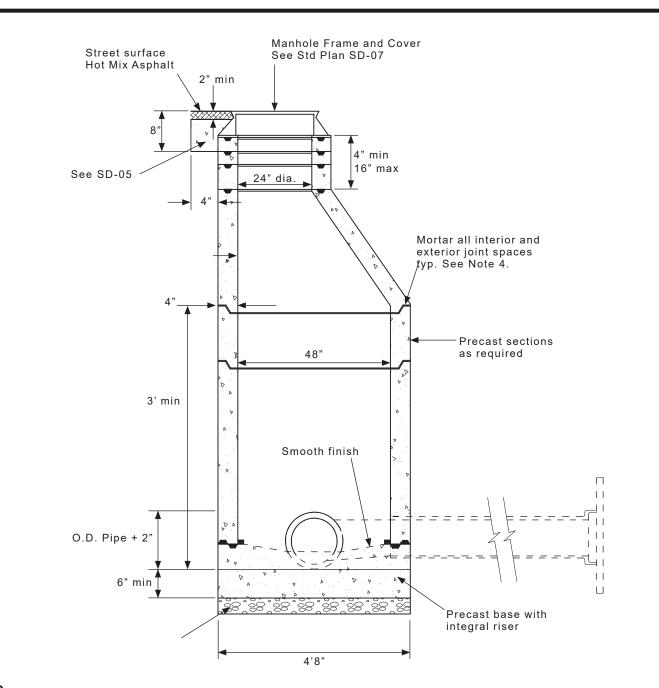


May 2024



MANHOLE/CATCH **BASIN & VALVE BOX** ADJUSTMENT

**SD-05** 



- 1. Precast Manhole sections shall conform to applicable provisions of ASTM C478.
- 2. 9" Class II for Aggregate Base bedding compacted to 95% maximum ASTM D1557 or as required by the Geotechnical Engineer.
- 3. Backfill Class II AB around MH to 95% compaction or CDF fill option if width is too narrow between existing native and MH exterior walls as required by the City Inspector.
- 4. All joints with External Concrete Joint Wrap.Two layers may be required to seal base; plaster with mortar thereafter.
- 5. Manhole base must be poured against undisturbed soil. If excavated too deep, fill with concrete.
- 6. For manhole with large diameter pipes, see Contra Costa County Standard Plans.



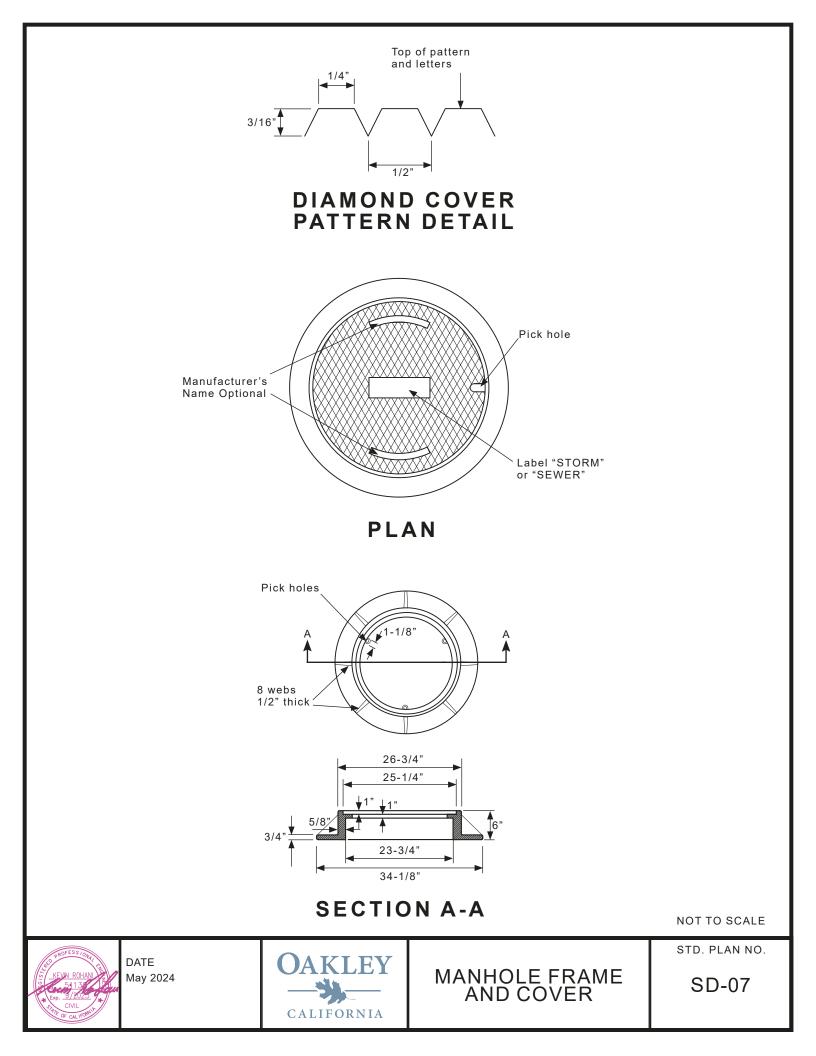
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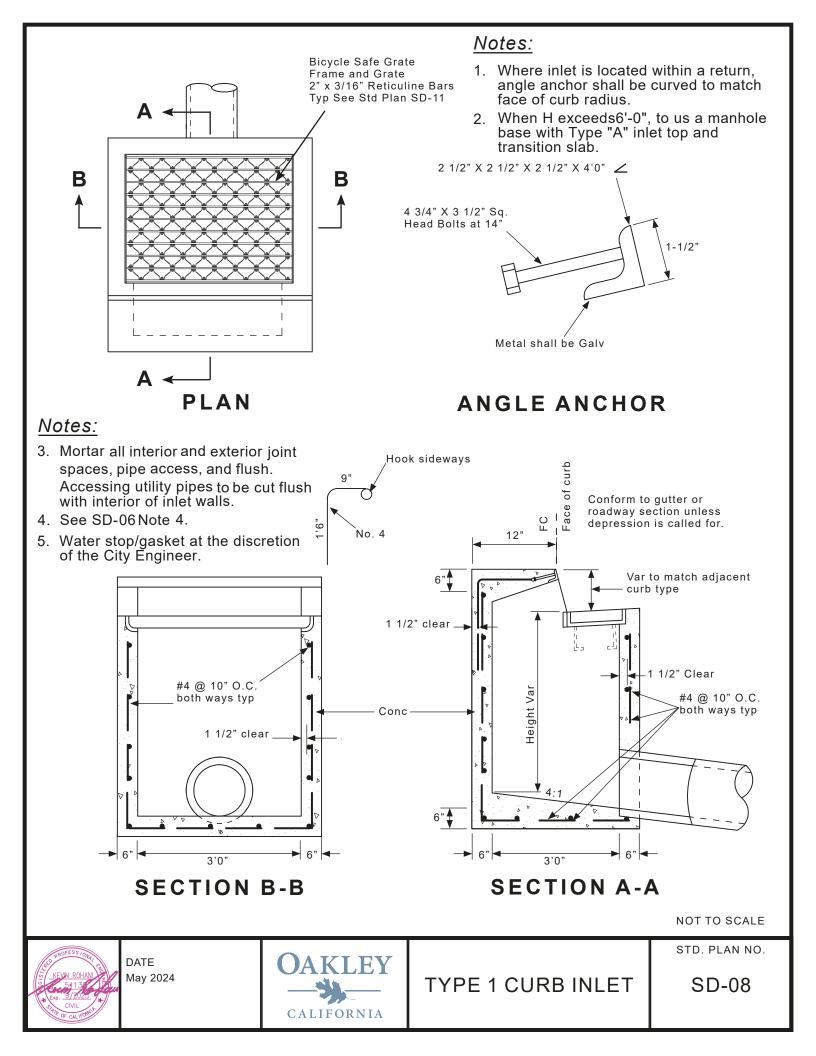


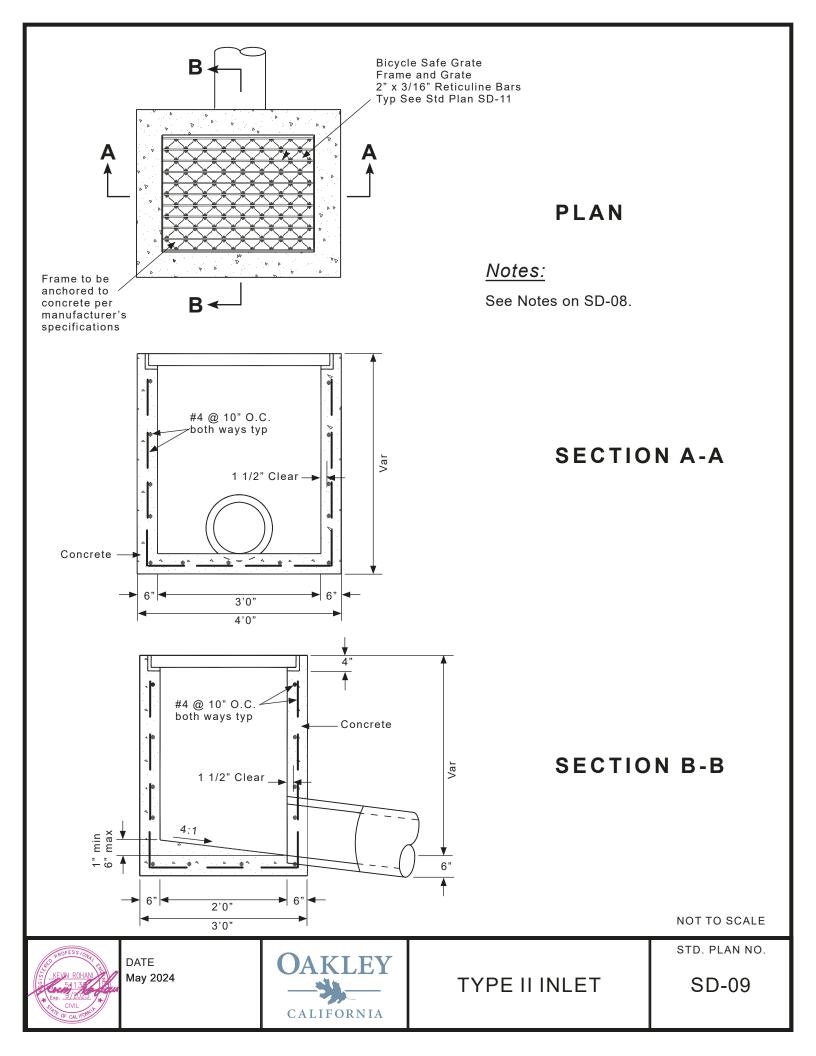
STD. PLAN NO. STANDARD MANHOLE

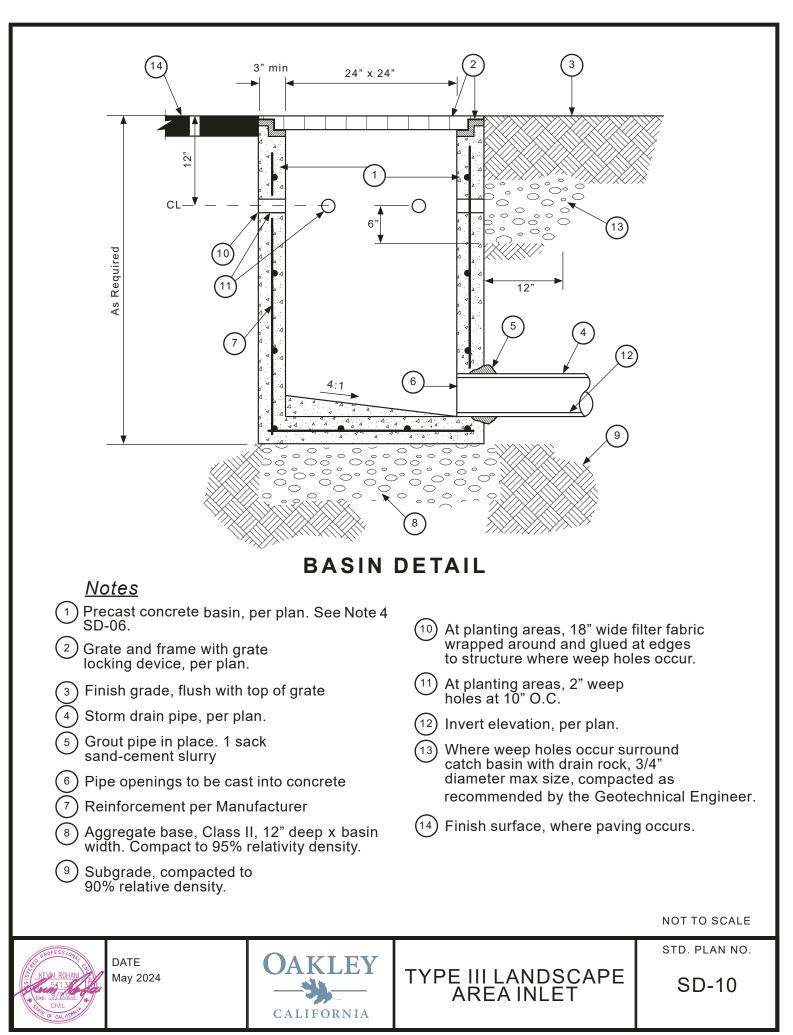
**SD-06** 

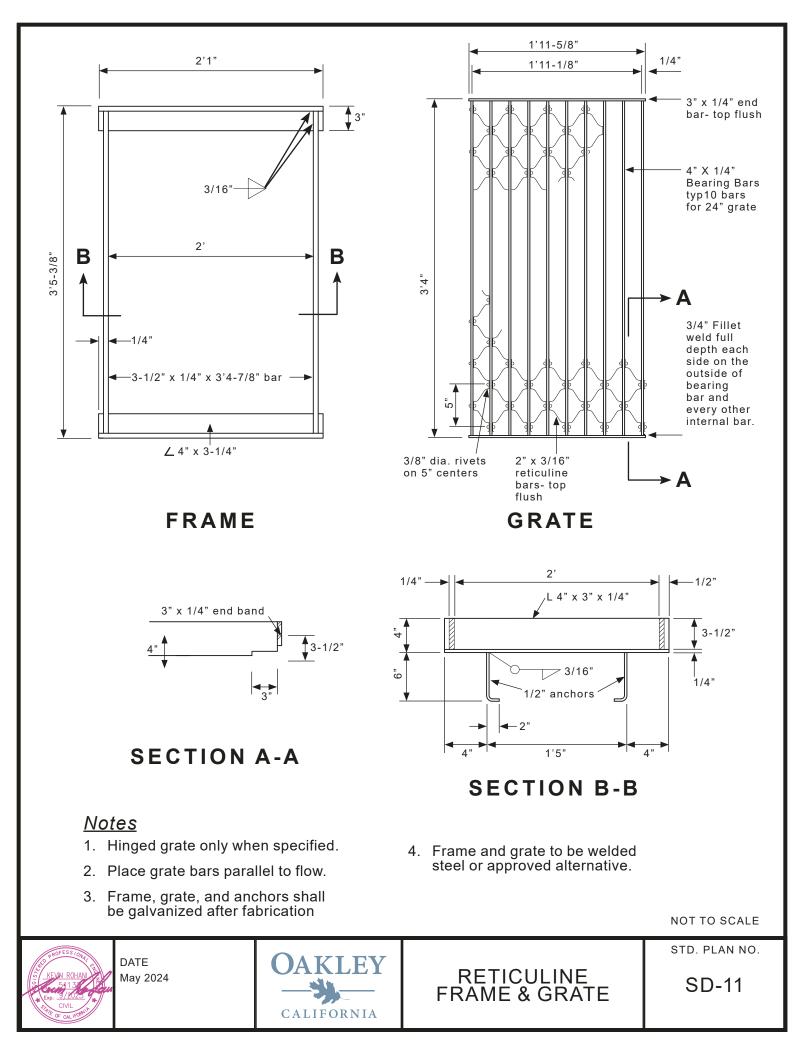
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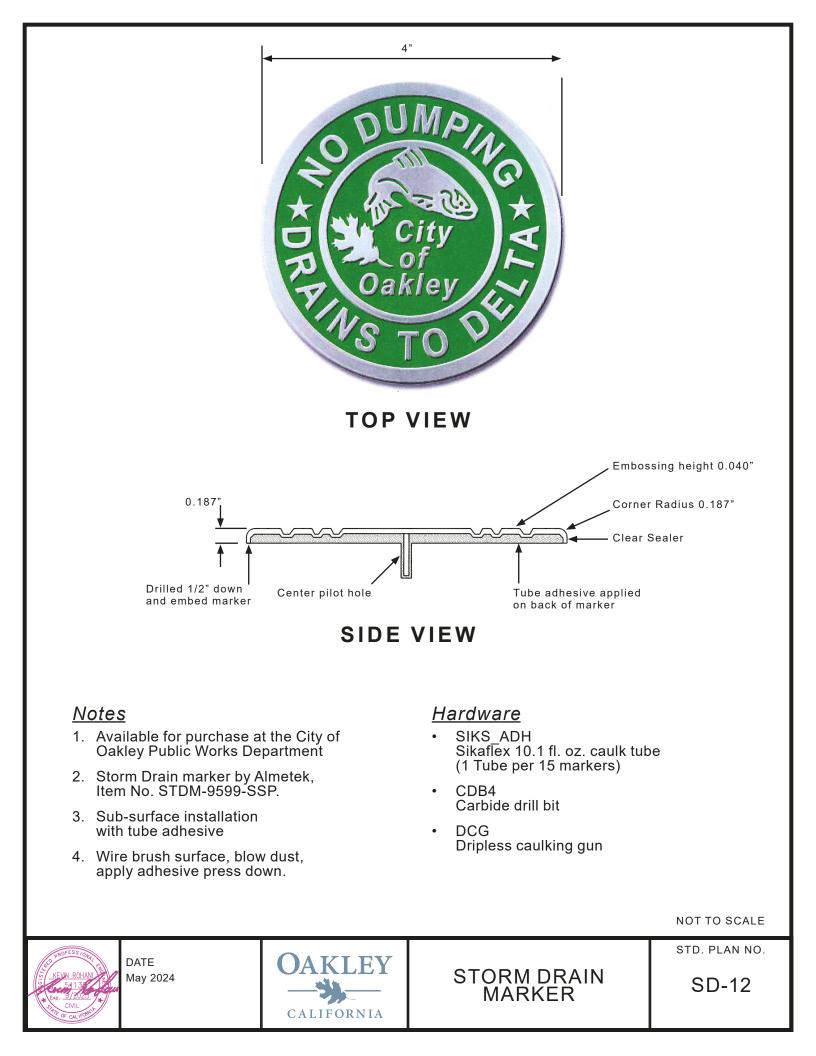


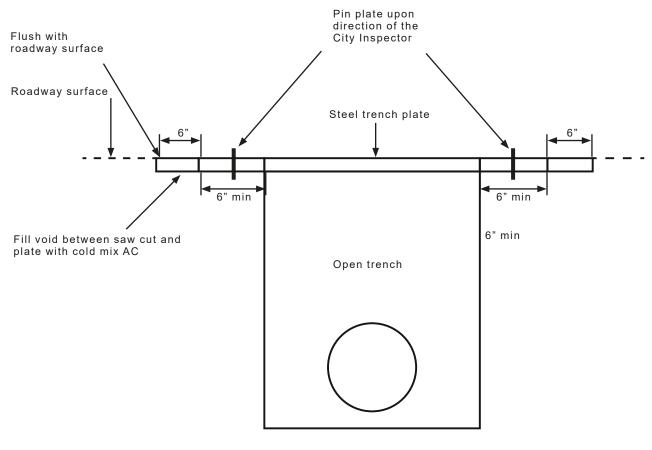












### FLUSH TRENCH PLATE

#### <u>Notes</u>

- 1. Contractor shall install signs per current MUTCD requirements for uneven pavement.
- 2. If trench plates cannot sit completely flush due to crowns, quarter crowns, or uneven pavement an AC transition will be required. The transition shall be a minimum 3 feet horizontal for every inch vertical on arterials and 1 foot horizontal for every inch vertical on residential streets.



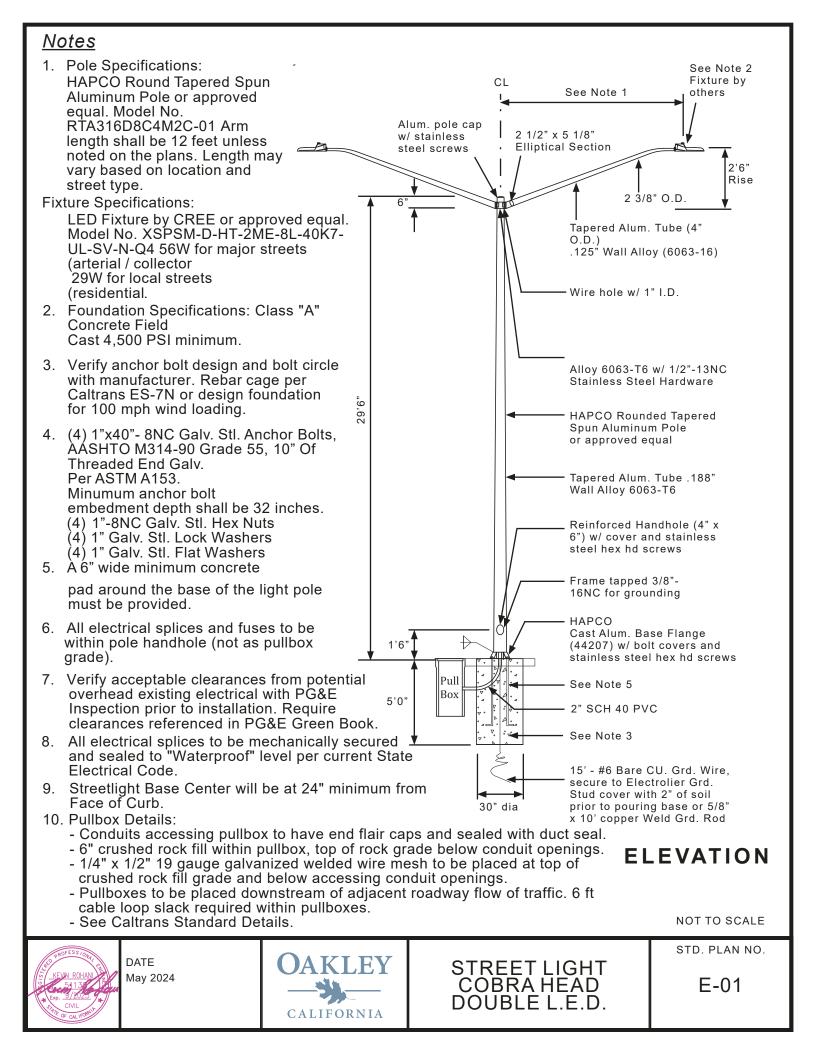
DATE May 2024

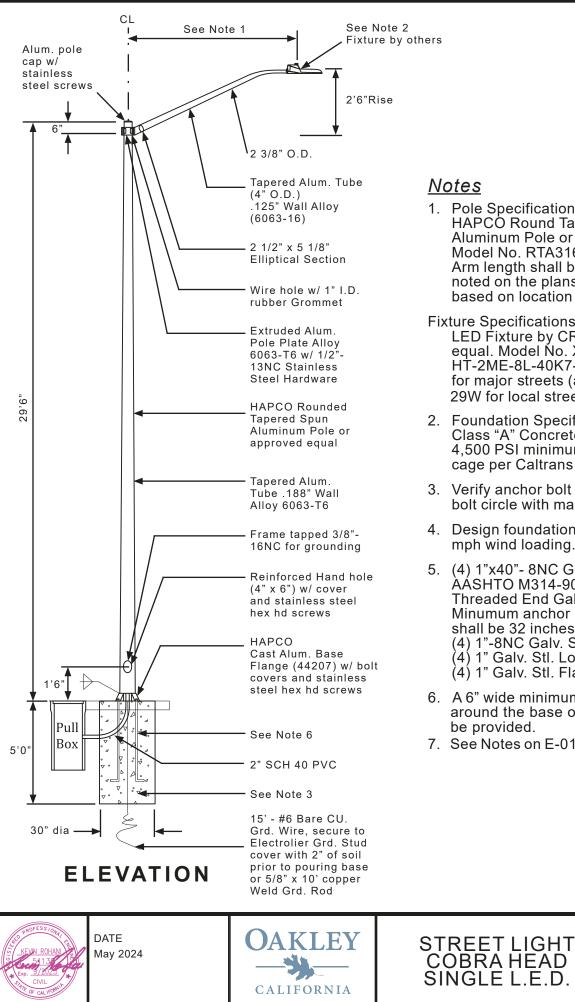


FLUSH TRENCH PLATE NOT TO SCALE

STD. PLAN NO.

SD-13





- 1. Pole Specifications: HAPCO Round Tapered Spun Aluminum Pole or approved equal. Model No. RTA316D8C4M1C-01 Arm length shall be 12 feet unless noted on the plans. Length may vary based on location and street type.
- Fixture Specifications: LED Fixture by CREE or approved equal. Model No. XSPSM-D-HT-2ME-8L-40K7-UL-SV-N-Q4 56W for major streets (arterial / collector) 29W for local streets (residential).
- Foundation Specifications: Class "A" Concrete Field Cast 4,500 PSI minimum. Rebar cage per Caltrans ES-7N.
- 3. Verify anchor bolt design and bolt circle with manufacturer.
- 4. Design foundation for 100 mph wind loading.
- 5. (4) 1"x40"- 8NC Galv. Stl. Anchor Bolts, ÀÁSHTO M314-90 Grade 55, 10" Of Threaded End Galv. Per ASTM A153. Minumum anchor bolt embedment depth shall be 32 inches. (4) 1"-8NC Galv. Stl. Hex Nuts (4) 1" Galv. Stl. Lock Washers
  - (4) 1" Galv. Stl. Flat Washers
- A 6" wide minimum concrete pad around the base of the light pole must be provided.
- 7. See Notes on E-01.

NOT TO SCALE

STD. PLAN NO.

F-02

1. Pole Specifications: BEACON Pole Model No. RSA-B-SHO-F-14-50-B-TN3-BBT+VINY/5/BBT w/ clam shell base

Pole shall be factory prime coated and electrostatically powder coated "Black" with the allocation of a small 3.5-mil weather resistant powder coat whose base is polyester and thermocured. Base painted both inside and out.

2. Fixture Specifications: BEACON (2) Model No. T1/AF/H2/24L-55/4K7/DIR3 or DIR4/UNV/SWP/PCR-TL-7P/FINIAL/ BBT

Lens: Acrylic, Frosted Optics: Type III (residential street) Type IV (cul de sac) Light: 24LED Engine and Drivers Combination Voltage: 120 through 227 Volts, 60 Hz

Fixture shall be SiteSync ready to include plug in daughter board or approved equal.

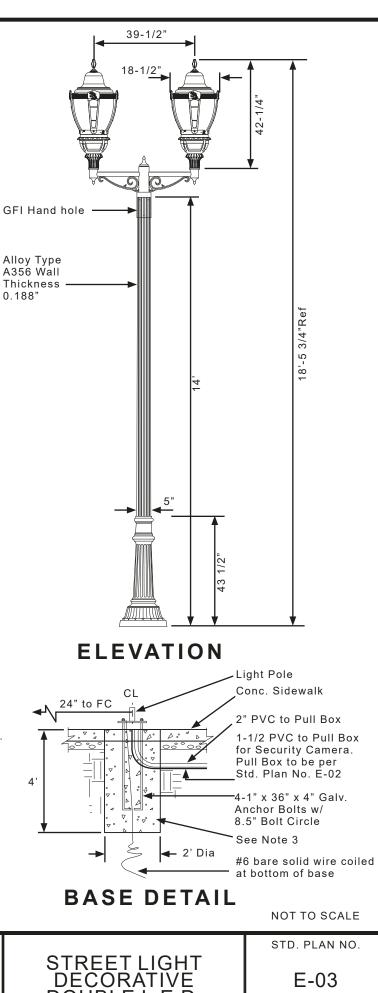
Fixture shall be NRTL Listed for Wet Location. Fasteners shall be stainless steel.

- 3. Foundation Specifications: Class "A" Concrete Field Cast 2,500 PSI minimum @ 28 days.
- 4. Verify anchor bolt design and bolt circle with manufacturer.
- 5. Design foundation for 100 mph wind loading.
- 6. Decorative light pole bases shall be provided at the sole cost of Developer or Contractor, with the authorization of the City.
- 7. Conduit shall be installed with 30" of cover.
- 8. Contact Oakley Beacon Manufacturer Representative (530) 888-8686.
- 9. See Notes on E-01.



circle per Manf.

8.5" dia bolt



DATE May 2024





 Pole Specifications: BEACON Pole Model No. RSA-B-SHO-F-14-50-B-TN3-BBT+VINY/5/BBT w/ clam shell base

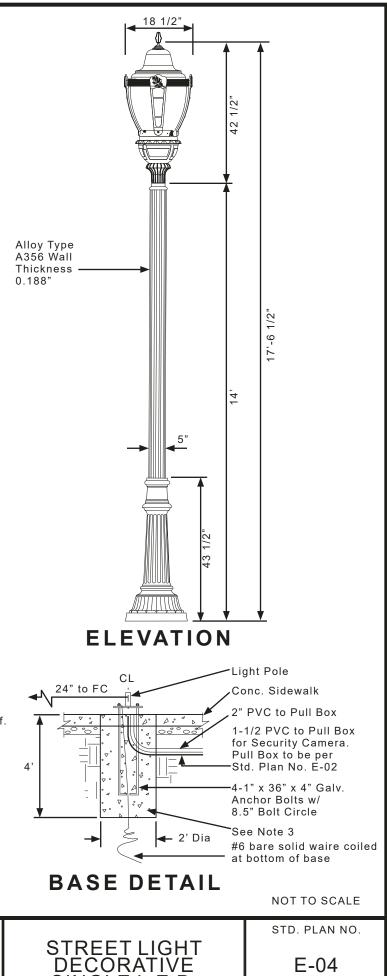
Pole shall be factory prime coated and electrostatically powder coated "Black" with the allocation of a small 3.5-mil weather resistant powder coat whose base is polyester and thermocured. Base painted both inside and out.

 Fixture Specifications: BEACON Model No. T1/AF/H2/24L-55/4K7/DIR3 or DIR4/UNV/SWP/PCR-TL-7P/FINIAL/BBT

Lens: Acrylic, Frosted Optics: Type III (residential street) Type IV (cul de sac) Light: 24LED Engine and Drivers Combination Voltage: 120 through 227 Volts, 60 Hz

Fixture shall be NRTL Listed for Wet Location. Fasteners shall be stainless steel and meet AAMA 605.2 performance specification.

- Foundation Specifications: Class "A" Concrete Field Cast 2,500 PSI minimum @ 28 days.
- 4. Verify anchor bolt design and bolt circle with manufacturer.
- 5. Design foundation for 100 mph wind loading.
- 6. Decorative light pole bases shall be provided at the sole cost of Developer or Contractor, with the authorization of the City.
- 7. Conduit shall be installed with 30" of cover.
- 8. Contact Oakley Beacon Manufacturer<sup>circle per Manf.</sup> Representative (530) 888-8686.
- 9. See Notes on E-01.



SINGLE L.E.D.

ROFESSION REVERSION STATES 





# TRAFFIC SIGNAL SPECIFICATIONS

ITEM	MANUFACTURER/MODEL OR TYPE (OR APPROVED EQUAL)
Signal Controller	Туре 2070
Signal Controller Software	McCain Omni Ex Intersection Control Software for ATC Controllers Version 1.6
Video Detection	ITERIS Model Vantage Vector Hybrid Video/ Radar Detection System, The Video/Radar processors shall be ITERIS Model Vantage Edge 2 Processors (VEC-EDG201N-PAK)
Traffic Signal Controller Cabinet	McCain Type 332
Pedestrian Countdown Clock	LEOTEK, Model: TSL-PED-16-CIL
Pedestrian Push Button	Campbell Company, Model: 4EVR
Lighted Street Name Sign	Southern Manufacturing, Mode: Clean Profile L.E.D. Illuminated Sign

#### <u>Notes</u>

- 1. Within 14 calendar days of receipt of contractor's Materials List, the City shall have the right to request a sample of any materials used for the construction of the traffic signal or fiber optic system.
- 2. The right to request includes, but is not limited to: controller, controller cabinet, and any other item deemed necessary to be tested or inspected for compliance to the materials.
- 3. Materials not received by the City within the time specified shall be deemed to be unsatisfactory, and rejected.
- 4. All equipment and software installed shall be compatible with the existing City traffic control system.
- 5. The Contractor shall arrange to have a signal technician (qualified to work on the controller unit and employed by the controller unit manufacturer or his representative) present at the time the equipment is turned on. The contractor shall deliver a fully operating system.

- 6. The Contractor shall furnish a "Certificate of Compliance" assuring the City that the traffic signal controller and cabinet comply with these Special Provisions and they will operate as shown on the Plans.
- 7. The maintenance and repair agreement period for furnished equipment shall not commence until the controllers, cabinets, and auxiliary equipment have been installed at the project sites, placed in operation by a factory representative, and the project accepted as complete.

NOT TO SCALE STD. PLAN NO.



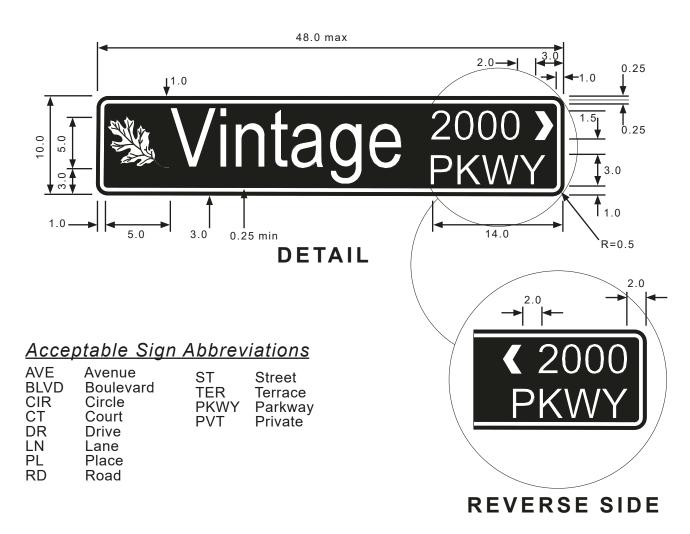
DATE May 2024





E-05

# ALL DIMENSIONS ARE IN INCHES



#### <u>Notes</u>

- A combination of 6" "Highway Gothic" Font (UC) with 4.5" "Highway Gothic" Font (LC) shall be used for street name.
- 2. Supplementary lettering to indicate the type of street (such as Street, Avenue, or Road) shall be in smaller lettering 3" high.
- 3. The border shall be 0.5" in width. The corners of the sign should be rounded to fit the border.
- 4. Street name sign blanks shall be 0.125" thick, ASTM B209 Alloy 6061-T6, flat aluminum.
- Reflective sheeting shall be 3M Visual Impact Performance - Series 3990 (green and white) and shall be coated with 3M Premium Protective Overlay Film - Series 1160 (both sides), or approved equivalents.

- 6. Sign colors shall be a green background with white letters and white border.
- 7. Signs shall be double faced (front and rear) with block arrows pointing in same direction (i.e. from to right ad rear to left).
- 8. Sign locations and mounting shall be as shown on location detail (SS-03) Sheet 3.

STREET NAME SIGN MAJOR STREET



DATE May 2024

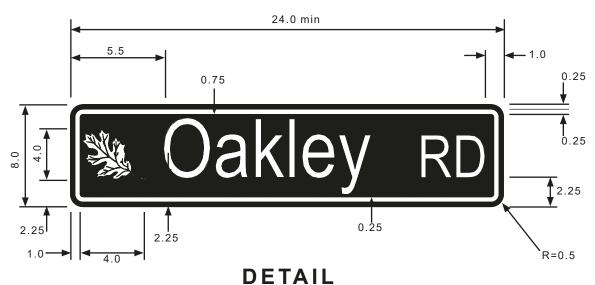


STD. PLAN NO.

NOT TO SCALE

**SS-01** 

# ALL DIMENSIONS ARE IN INCHES



### Acceptable Sign Abbreviations

AVE BLVD CIR CT DR LN PL	Avenue Boulevard Circle Court Drive Lane Place	ST TER PKWY PVT	Street Terrace Parkway Private
RD	Road		

### <u>Notes</u>

- A combination of 6" "Highway Gothic" Font (UC) with 4.5" "Highway Gothic" Font (LC) shall be used for street name.
- 2. Supplementary lettering to indicate the type of street (such as Street, Avenue, or Road) shall be in smaller lettering 3" high.
- 3. The border shall be 0.25" in width. The corners of the sign should be rounded to fit the border.
- 4. Street name sign blanks shall be 0.125" thick, ASTM B209 Alloy 6061-T6, flat aluminum.
- Reflective sheeting shall be 3M Visual Impact Performance - Series 3990 (green and white) and shall be coated with 3M Premium Protective Overlay Film - Series 1160 (both sides), or approved equivalents.
- 6. Sign colors shall be a green background

with white letters and white border.

- 7. Signs shall be double faced (front and rear)
- 8. Sign locations and mounting shall be as shown on location detail (SS-03) Sheet 3.
- 9. At the intersection with public street / private street name sign shall match the Standard Drawings but must have "PVT" where the block would go.



DATE May 2024

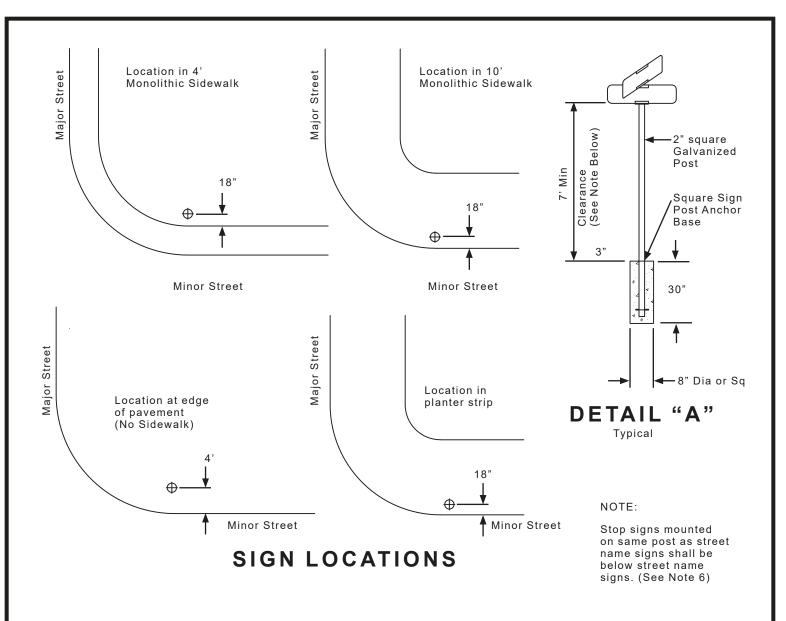


NOT TO SCALE



SS-02

STD. PLAN NO.



### <u>Notes</u>

- 1. Sign to be located 18" from face of curb or back of monolithic sidewalk.
- Bottom of sign shall be mounted 7' min. above ground or sidewalk per Detail "A" shown on this sheet.
- 3. Signs to be City of Oakley Standard Street Name Sign.
- Signs shall be mounted with Hawkins' Heavy Duty Aluminum "Vandal Proof" (HD) VP Model #V14F-(HD)VP-2c2P (without finial) or approved equal.
- Signs mounted on signal standards or electroliers shall be mounted with Hawkins' "Vandal Proof" wing bracket Model #V14F-(HD)

VP-AB or approved equal. Brackets shall be fastened to poles with two (2) 3/4" wide x 0.030" thick Type 201 Stainless Steel bends.

6. Street name sign may be combined with stop sign (R1), and placed in a location for maximum visibility as approved by the City Engineer.

NOT TO SCALE



DATE May 2024





STD. PLAN NO.

# PREFERRED TREE LIST

List of trees below are suitable for use in the public easement areas in Oakley. Care in selecting the proper tree or the specified need should be foremost in the decision - recommendation process. Small Accent trees can be planted in the easement area but do not meet the criteria of a "Street Tree". Standard trees only. No multi-trunk. The Parks and Landscape Division shall have final decision-making authority on all trees approved in public landscape areas.

# ACCENT TREES - Small Sized (Under 25' high)

TREE NAME	VARIETY	COMMON NAME	COMMENTS
Arbutus	Marina	Hybrid Strawberry Madrone	Do not plant adjacent to City Streets or
			sidewalks. Fruit can be messy
Cercidphyllum japonicum		Katura Tree	
Parkinsonia hybrid	Desert Museum	Palo Verde	
Cercis canadensis		Eastern Redbud	Male only
Chionanthus retusus		Chinese Fringe Tree	Do not plant adjacent to City Streets or
			sidewalks due to wet fruit litter.
Crataegus phaenopyrum		Washington Hawthorn	Do not plant adjacent to City Streets or
			sidewalks due to wet fruit litter.
Geijera parviflora		Australian Willow	
Lagerstroemia indica		Hybrid Crape Myrtle	Select varietals less susceptible to powdery
			mildew
Laurus nobilis	Saratoga	Saratoga Laurel	
Magnolia grandiflora	Little Gem, Virginiana,	Magnolia	
	or Jim Wilson Moonglow		
Prunus cerasifera	Krauter vesuvius	Purple-Leaf Plum	Do not plant adjacent to City Streets or
			sidewalks. Fruit can be messy
Vitex agnus-castus		Chaste	

## STREET TREES - Medium Sized (25' to 45' high)

TREE NAME	VARIETY	COMMON NAME	COMMENTS
Acer buergerianum		Trident Maple	
Acer truncatum	Pacific Sunset	Shantung Maple	
Amelanchier laevis		Spring Flurry Serviceberry	
Carpinus caroliniana		American Hornbeam	Insects, other issues?
Koelreuteria bipinnata		Chinese Flame Tree	
Maackia amurensis	Maackia		
Magnolia grandiflora	St. Mary	St. Mary Southern Magnolia	
Magnolia soulangeana		Saucer Magnolia	
Metrosideros excelsa	New Zealand Christmas Tree	Large root area	
Nyssa sylvatica		Sour Gum - Tupelo	
Ostrya virginiana		American Hop Hornbeam	

NOT TO SCALE STD. PLAN NO.

L-01A



DATE May 2024





# PREFERRED TREE LIST (Cont.)

### STREET TREES - Medium Sized (25' to 45' high) (Cont.)

TREE NAME	VARIETY	COMMON NAME	COMMENTS
Pistacia chinensis	Pearl Street, Red Push	Chinese Pistacia	Male Only
	or Keith Davey		
Pyrus calleryana	Chanticleer, New Bradford	Flowering Pear	Do not plant adjacent to City Streets or
			sidewalks due to wet fruit litter.
Tilia cordata	Greenspire, Shamrock	Little Leaf Linden	Susceptible to Aphids
	or Redmond		
Tristaniopsis laurina	Elegant	Elegant Water Gum	Susceptible to Aphids
Tristania confertax	Lophostemon	Brisbane Box	Susceptible to Aphids
Ulmus parvifolia	Emerald Flair Elm	Chinese Elm	Potential Anthracnose issue
Ulmus davidiana	Japonica Emerald Sunshine	Emerald Sunshine Elm	
Ulmus wilsoniana	Prospector	Prospector Elm	

### NON-RESIDENTAL TREES - Large Sized (Over 45' high)

TREE NAME	VARIETY	COMMON NAME	COMMENTS
Acer rubrum	Red Sunset or October Glory Red Maple		
Cedrus atlantica	Glauca	Blue Atlas Cedar	
Celtis australis		European Hackberry	
Magnolia grandiflora	Edith Bogue	Magnolia	
Metasequoia glyptostroboides		Dawn Redwood	
Pinus eldarica		Afghan Pine	
Plantinus acerfolia	Morton Circle	Exclamation Planetree	
Quercus agrifolia		Coast Live Oak	
Quercus ilex		Holly Oak	
Quercus rubra		Red Oak	
Quercus virginiana		Southern Live Oak	
Zelkova serrata	Village Green or	Sawleaf Zelkova	
	Musashimo		

Note: The list above is restricted as the City prohibits the planting of trees in the public easement area with fruit, undesirable seeds, cones, or nuts; Trees with voracious shallow root systems that are known to cause sidewalk or driveway damage; and trees with known pest (disease, insect or invertebrate) problems.



DATE May 2024





NOT TO SCALE

STD. PLAN NO.

L-01B

### TREE SPECIFICATIONS

All trees must meet the following minimum specifications:

- 1. Height: 7 feet high measured from rootcrown to tip of central leader.
- 2. Caliper: 1-1/2 inches, measured 6 inches above the root crown (24 inch Box Minimum).
- 3. Branching: Minimum spread of 2 3 feet with good branch distribution.
- 4. Central Leader: Single, dominant, relatively straight stem.

Any exception to the above must be approved by the City.

All planting stock must have the approval of the City.

City reserves the right to reject trees that do not meet high quality nursery stock of the current edition of the Guideline Specifications for Nursery Tree Quality, published by the Urban Tree Foundation.

### PLANTING SEQUENCE

- 1. Dig the planting hole as deep as the container and twice as large as its diameter. If over-excavation occurs, foot-tamp bottom of planting hole as necessary to prevent root crown from settling below surrounding grade.
- 2. Remove the root ball carefully from the container by supporting it from below. Sever any circling roots (3/16 inch or greater) with sharp shears or saw. If the root ball is dense or compacted, carefully loosen the roots at the side and bottom of the root ball. The severing of large roots will encourage new roots initiating at the cuts.
- 3. Center root ball in hole on undisturbed soil such that root crown is visible at the top of the root crown and 2 inches above grade.
- 4. Fill planting hole around root ball with backfill mix and foot-tamp in lifts. Be careful not to disturb the root ball.
- 5. Backfill mix shall be as specified by the soils analysis.
- 6. Pre-plant and post-plant fertilizers shall be as required by soils analysis.
- 7. Use the remaining native soil to create a water basin appropriate to the site. Height of water basin shall not exceed height of the root crown.



DATE May 2024

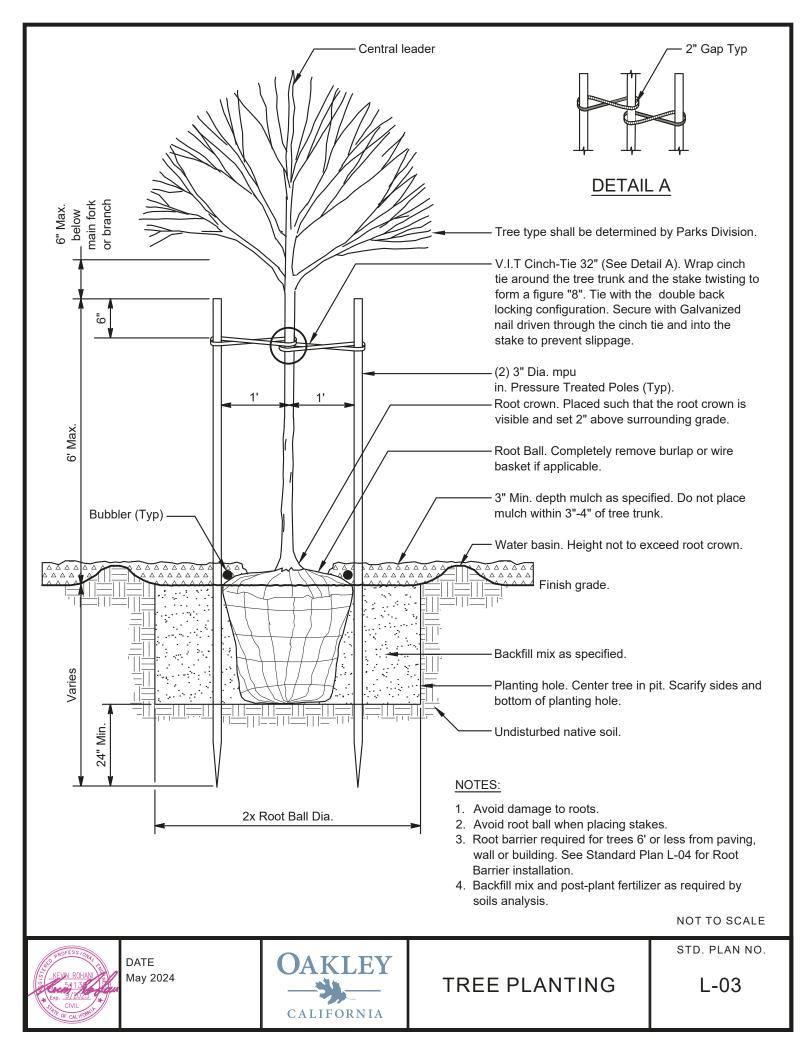


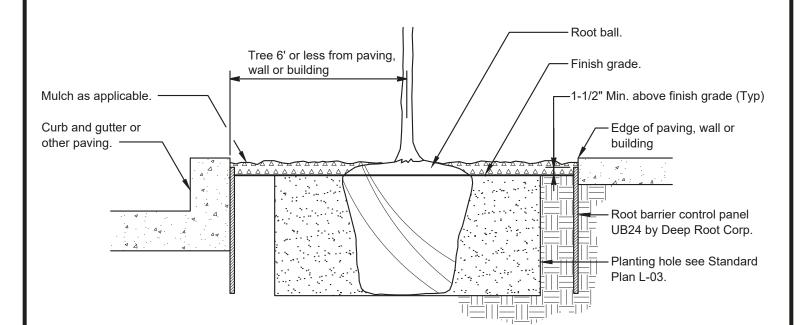


NOT TO SCALE

STD. PLAN NO.

1-02





- 1. Install per manufacturers specifications directly against edge without voids.
- 2. Panel length per manufacturers specifications and extend a min. length of 10' from trunk.
- 3. Linear installation shall extend a min. of 10' from centerline of tree for a min. 20' overall length.
- 4. Surround installation at perimeter of concrete tree wells only.



DATE May 2024

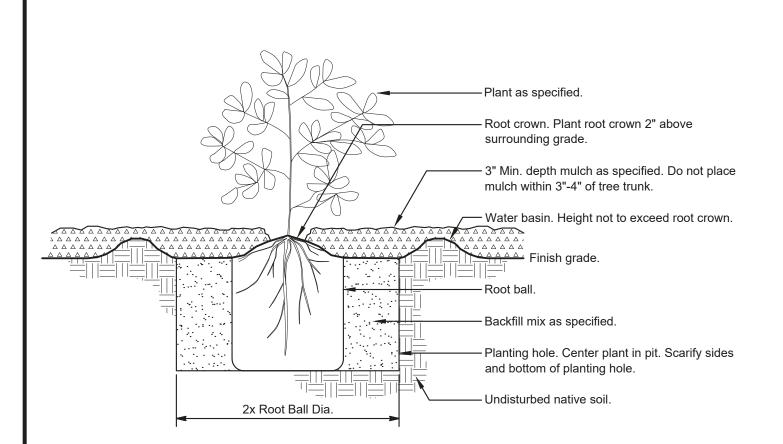


# ROOT BARRIER

NOT TO SCALE

STD. PLAN NO.

L-04



1. Backfill mix and post-plant fertilizer as required by soils analysis.



DATE May 2024

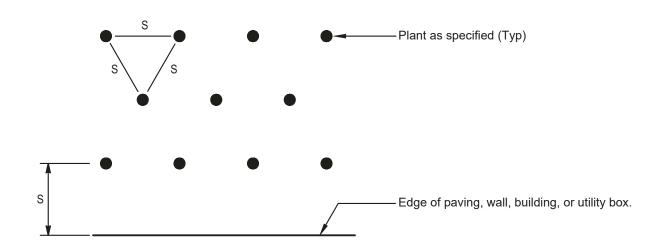


SHRUB PLANTING



STD. PLAN NO.

L-05



### PLANT QUANTITY CHART

Plants per Square Foot
4.60
2.60
1.66
1.15
0.738
0.512
0.290
0.185
0.116

**PLANT SPACING** 

#### NOTES:

- 1. S = On-center plant spacing.
- 2. Use the larger on center spacing for spacing at interface of different plant species.
- 3. This detail is intended as a guide for shrubs and groundcover spaced at equal distance from each other.



DATE May 2024



NOT TO SCALE

STD. PLAN NO.

L-06

# IRRIGATION EQUIPMENT LIST

ITEM	MANUFACTURER/MODEL (OR APPROVED EQUAL)	
Backflow Preventer, Freeze Protections and Enclosure	Per Diablo Water District Specifications and Details	
Pressure Reducing Valve	Wilkins 500HLR Series	
Controller Assembly	HydroPoint WeatherTRAK ET Pro 3 or Optiflow XR (Based on application) SiteOne Satellite Assembly (See Note 1 Below)	
Master Valve	Included with Controller Assembly (See Note 1 below)	
Flow Sensor	Included with Controller Assembly (See Note 1 below)	
Gate Valve (4 inch and larger)	Nibco F-619-RWS-SON (Flanged end w/ square operating nut)	
Gate Valve (3 inch and smaller)	Leemco LGT-XXSS (Stainless steel gate valve w/ cross handle)	
Ball Valve	KBI SCH 80 PVC True Union Type (at Remote Control Valves and Quick Coupling Valves)	
Quick Coupling Valve	44 LRC or 44 NP (for Non-Potable)	
Remote Control Valve	Hunter ICV Series with Filter Sentry	
Remote Control Valve w/ Filter and Pressure Regulator	Hunter PCZ Series (set at 25 PSI)	
Valve Boxes with Stainless Steel Lock-Down Bolts	Carson black colored box and t-cover lid in shrub areas and green colored box and t-cover lid for turf areas. Use Carson Specification	
Gate & Quick Coupling Valve Box with Stainless Steel Lock-Down Bolts	Grade.	
Gear Driven Rotor	Hunter I-20-SS and I-25-SS Series (6" Pop-ups in Turf and 12" Pop-ups in Shrubs), and I-40 Series (Sports Turf)	
Pop-Up Stream Rotor	Hunter PROS-PRS40-CV-F Series with MP Rotator Nozzles (6" Pop-ups in Turf and 12" Pop-ups in Shrubs)	
Pop-Up Spray	Hunter PROS-PRS30-CV-F Series with PRO Series Nozzles (6" Pop-ups in Turf and 12" Pop-ups in Shrubs)	
Bubbler	Hunter PCB Series (0.25 GPM, 1 per Shrub and 2 per Tree) or HEB Series w/ Diffuser Cap (Shrubs only-Size for application)	
Tree Bubbler (in paved areas or tree well)	Hunter RZWS-18-25-CV-SLEEVE	
Sub-Surface Irrigation (Limited use upon approval by Parks and Landscape Maintenance Manager)	Hunter HDL-CV Series (Size for application) with ECO-Indicator, PLD-AVR, and PLD-BV	

#### NOTES:

1. SiteOne Satellite Controller Assembly: SA6-WT5-H2OXX-AX/RSE/FAN-16/GRP-K/UFMVC-150P+200/CAB14-B/FS-CAB with WT2W-H2O-1VD/WT2W-H2O-SA/GR-K for 2-wire path.

HydroPoint WeatherTRAK Optiflow XR 2-wire controller housed in a 16" top entry Strong Box stainless steel enclosure with master valve, flow sensor, enclosure fan, and rain sensor.

All inclusive includes ten years service and warranty. Provide one (1) Apple iPad Pro (12.9 inch size and most current generation 1TB with wi-fi), Smart Keyboard Folio for iPad Pro, Apple Pencil (most current generation), AppleCare with 2 year service coverage.

Contact SiteOne Representative at (800) SITE-ONE for purchase order, preconstruction meeting, test for communication with central computer, warranty, and certifications. Contractor shall verify power availability and install unit per manufacturer's specifications on specified on concrete pad. Controller commissioning, flow sensor commissioning and Optiflow site optimization shall be conducted by Hydropoint Data Systems or SiteOne prior to turnover to the City.

IRRIGATION EQUIPMENT LIST

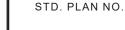
2. All shrub areas shall be designed with a 100% bubbler based system (no drip, dripline or micro irrigation). Overhead irrigation may be allowed in some instances for ground cover where area 10' or wider.

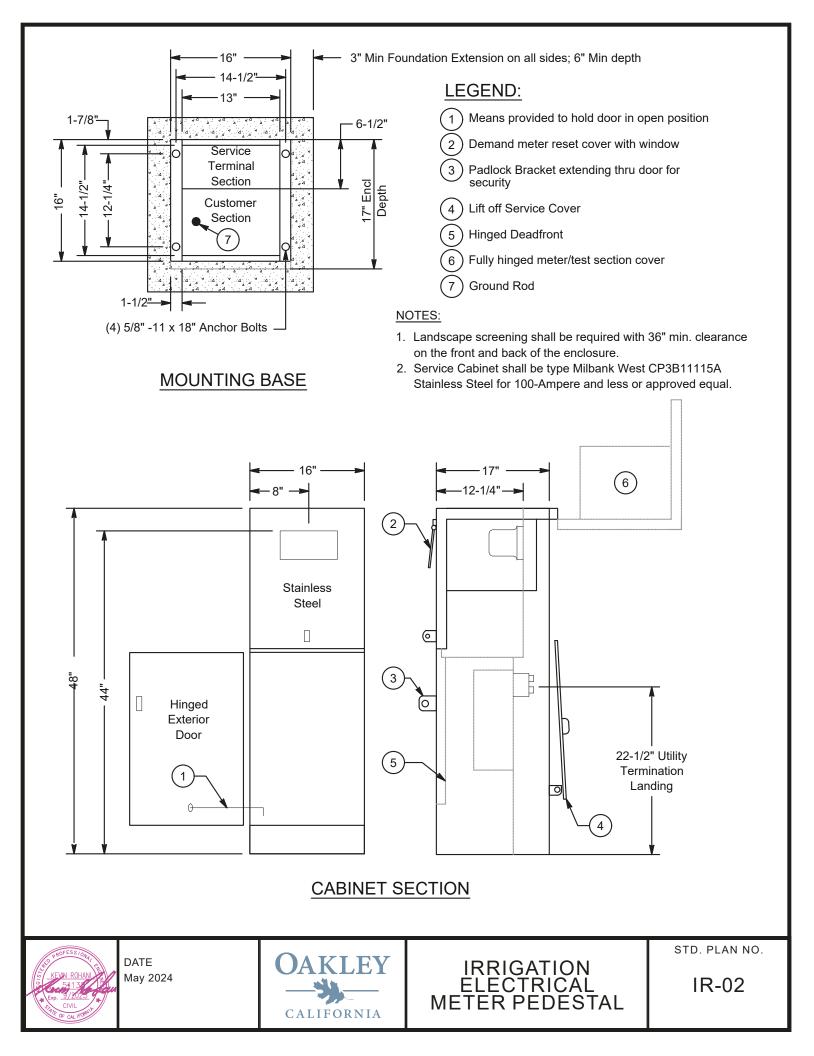
3. Rotors are preferred for all turf areas. Where rotors are not feasible, pop-up rotators will be acceptable substitute.

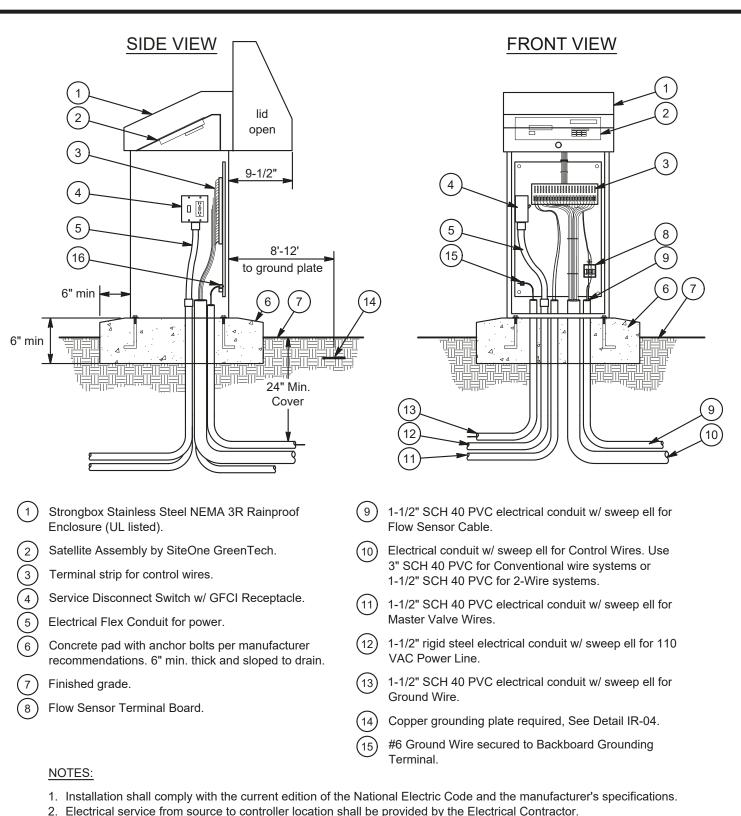


DATE May 2024









- Irrigation Contractor shall provide rigid steel conduit from service stub-out to controller GFCI switch and shall complete electrical service to controller.
- 4. Enclosure's field location and orientation shall be approved by the City. Provide 12" min. horizontal clearance from edges.
- 5. Seal all open ends of conduit with non-hardening duct seal.
- 6. Provide continuous bead of clear, outdoor caulk on exterior base of controller pedestal.

NOT TO SCALE

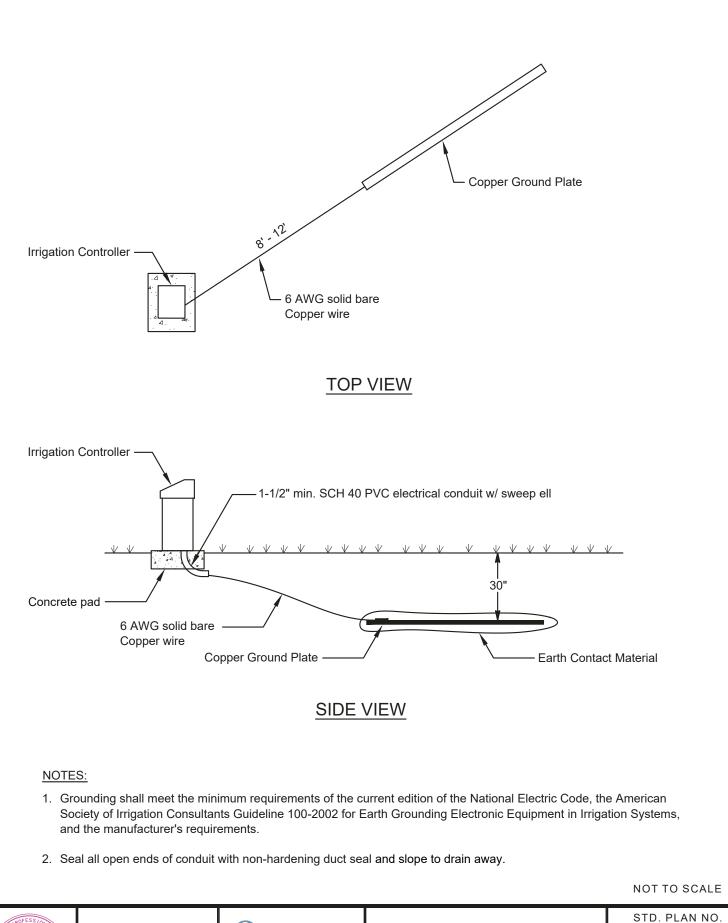
STD. PLAN NO.



DATE May 2024





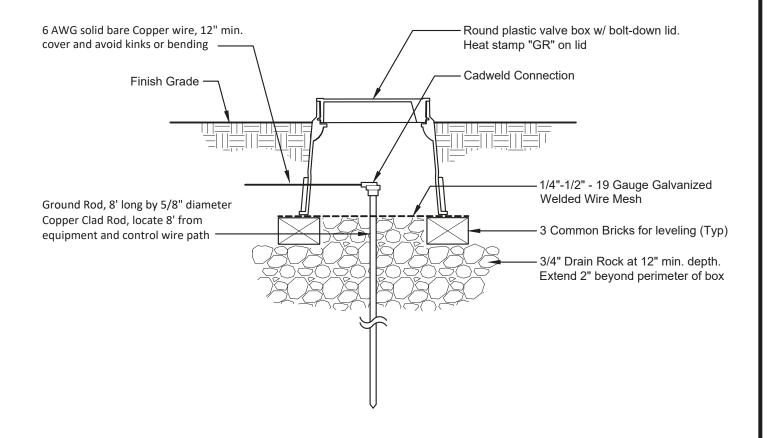


DATE May 2024



CONTROLLER GROUNDING





- 1. Grounding shall meet the minimum requirements of the current edition of the National Electric Code and the American Society of Irrigation Consultants Guideline 100-2002 for Earth Grounding Electronic Equipment in Irrigation Systems.
- 2. See Standard Plan IR-13 for Irrigation Valve Box Installation.
- 3. Cover box cut-outs with 10 MIL pipe tape to prevent soil in box.

NOT TO SCALE

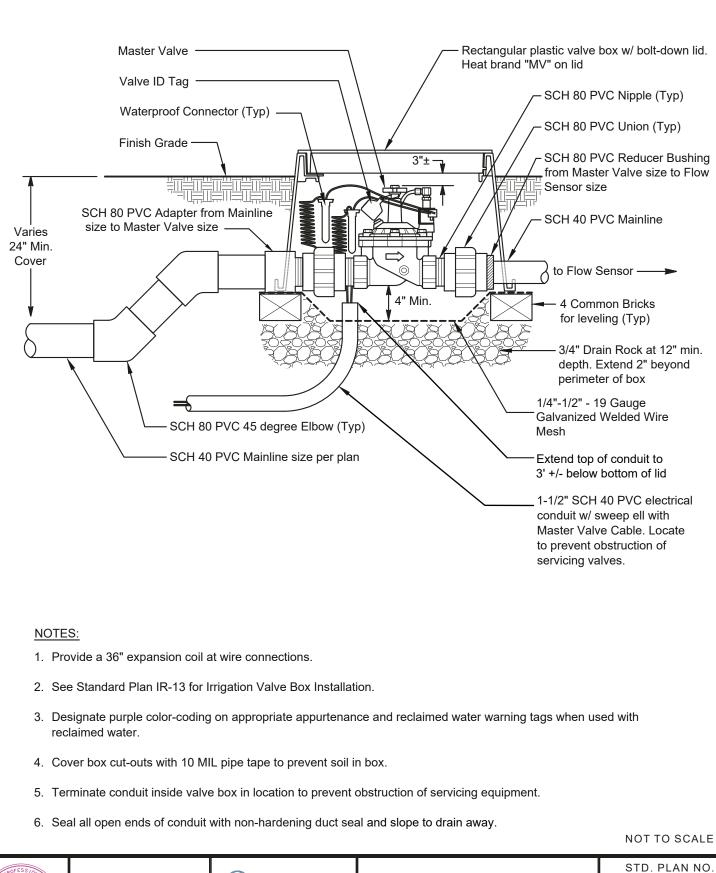
STD. PLAN NO.



DATE May 2024



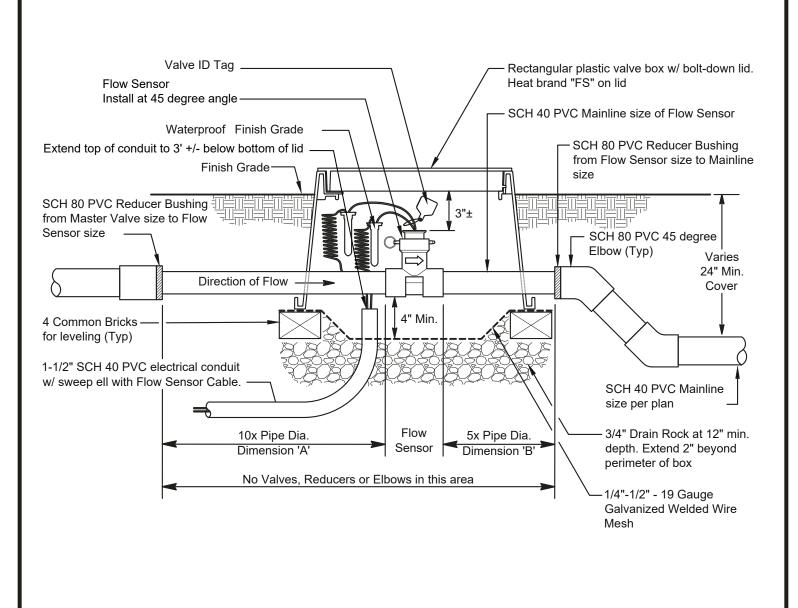
# GROUNDING ROD



DATE May 2024 OAKLEY CALIFORNIA

IR-06

MASTER VALVE



- 1. Provide a 36" expansion coil at wire connections.
- 2. See Standard Plan IR-13 for Irrigation Valve Box Installation.
- 3. Designate purple color-coding on appropriate appurtenance and reclaimed water warning tags when used with reclaimed water.
- 4. Cover box cut-outs with 10 MIL pipe tape to prevent soil in box.
- 5. Terminate conduit inside valve box in location to prevent obstruction of servicing equipment.
- 6. Seal all open ends of conduit with non-hardening duct seal and slope to drain away.

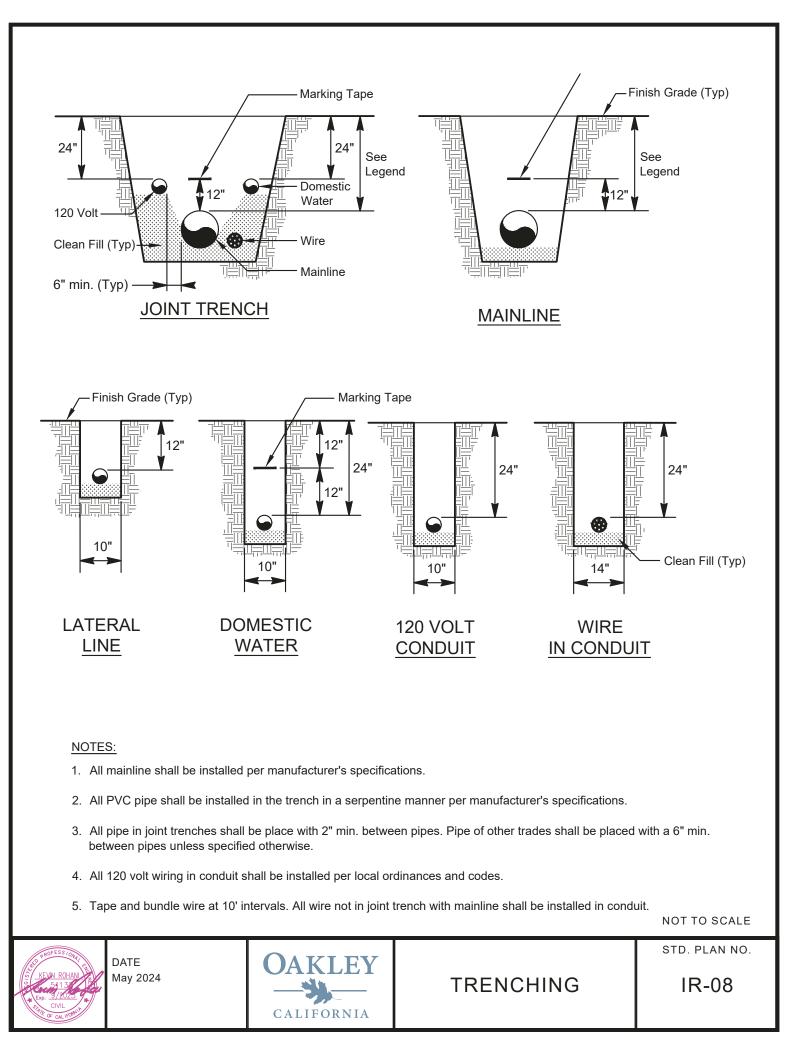
NOT TO SCALE STD. PLAN NO.

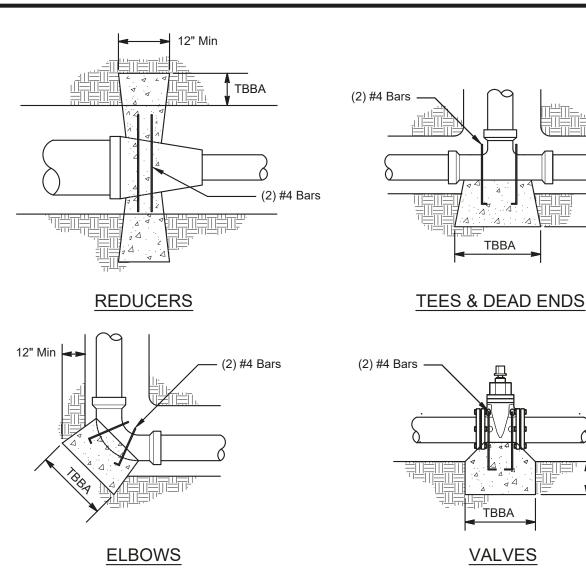


DATE May 2024



FLOW SENSOR





- 1. Thrust Blocks shall only be used if Joint Restraints are not specified. Install joint restraints per the manufacturer's specifications and provide polyethylene encasement of all cast iron and ductile iron pipe and fittings per the City General Notes for Park and Landscape Improvement Plans.
- 2. Thrust blocks shall not project higher than 1/2 the distance from the bottom of the trench to finish grade. Place concrete against undisturbed soil.
- 3. Do not cover ends of fittings or bolts with concrete or allow concrete to come in contact with PVC.
- 4. Concrete shall have compression strength of 2000 PSI.
- 5. Consult Manufacturer's literature for recommended Thrust Block Bearing Area (TBBA) based on actual field conditions. At Minimum TBBA shall be sized as follows:

THRUST BLOCKS

PIPE SIZE	90-DEGREE ELLS	45-DEGREE ELLS	VALVES, TEES, REDUCERS, DEAD ENDS
4"	1.5 SQ FT	1.0 SQ FT	1.0 SQ FT*
6"	3.5 SQ FT	2.5 SQ FT	2.5 SQ FT*
8"	6.3 SQ FT	4.5 SQ FT	4.5 SQ FT*
* OR AS DESIGN	ED BY THE ENGINEER.		

NOT TO SCALE

12" Min

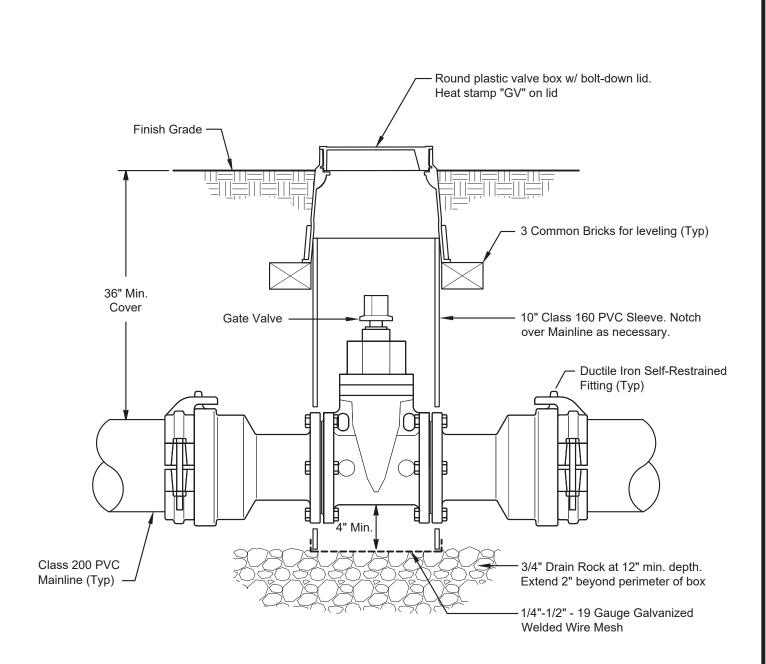
12" Min



DATE May 2024



STD. PLAN NO.



- 1. See Standard Plan IR-13 for Irrigation Valve Box Installation.
- 2. Install joint restraints per the manufacturer's specifications and provide polyethylene encasement of all cast iron and ductile iron pipe and fittings per the City General Notes for Park and Landscape Improvement Plans.

GATE VALVE (4 INCH & LARGER)

- 3. Designate purple color-coding on appropriate appurtenance and reclaimed water warning tags when used with reclaimed water.
- 4. Cover box cut-outs with 10 MIL pipe tape to prevent soil in box.

NOT TO SCALE

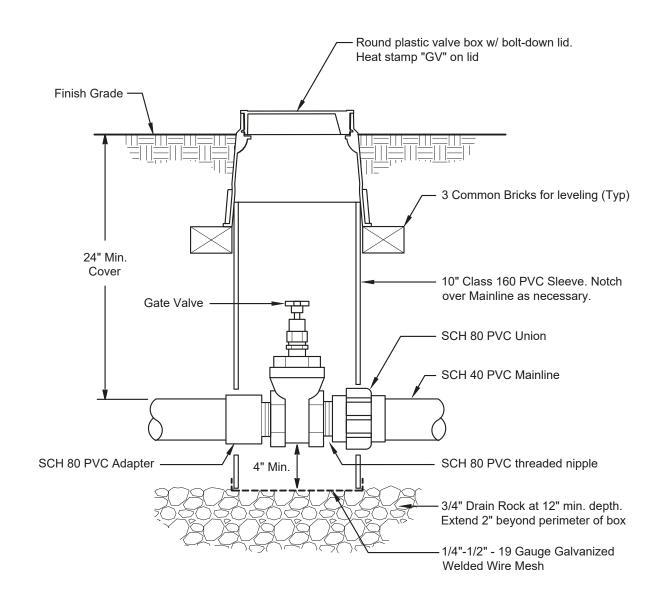


DATE May 2024



STD. PLAN NO.





- 1. See Standard Plan IR-13 for Irrigation Valve Box Installation.
- 2. Designate purple color-coding on appropriate appurtenance and reclaimed water warning tags when used with reclaimed water.

GATE VALVE (3 INCH & SMALLER)

3. Cover box cut-outs with 10 MIL pipe tape to prevent soil in box.

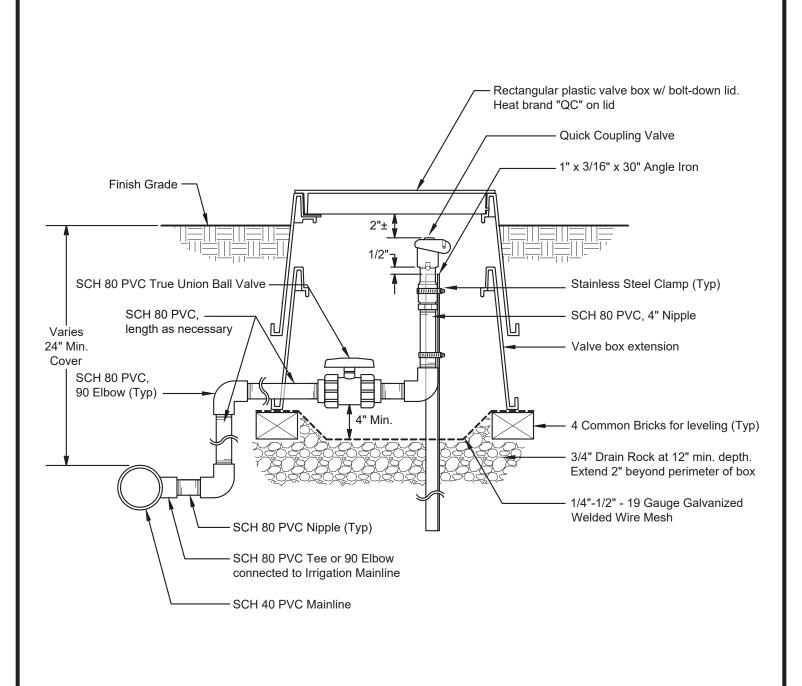
NOT TO SCALE

STD. PLAN NO.



DATE May 2024





- 1. See Standard Plan IR-13 for Irrigation Valve Box Installation.
- 2. Adjust valve box to permit full operation and maintenance of equipment.
- 3. Designate purple color-coding on appropriate appurtenance and reclaimed water warning tags when used with reclaimed water.
- 4. Cover box cut-outs with 10 MIL pipe tape to prevent soil in box.

NOT TO SCALE

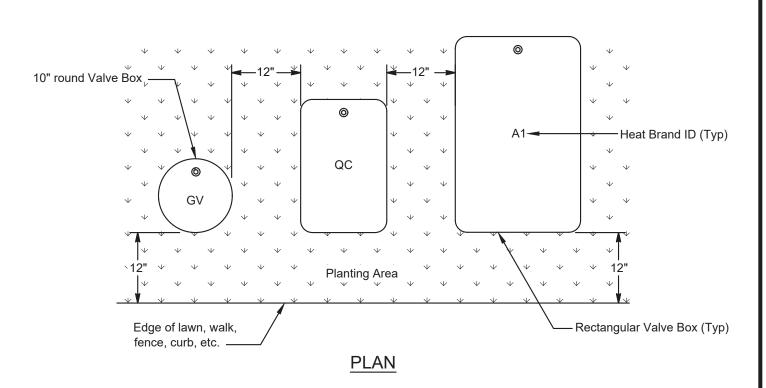
STD. PLAN NO.



DATE May 2024







- 1. Retangular valve boxes shall be 11-3/4" X 17" X 12" deep valve box. Use 16" X 25-1/2" X 15" deep rectangular valve box for 1-1/4" and larger valve assemblies.
- 2. Center boxes over valves to permit service of valves and unions.
- 3. Set boxes in ground cover/shrub area where possible and maintain a minimum of 5' for trees.
- 4. Set boxes parallel to each other and perpendicular to edge.
- 5. Set boxes 1" above grade in turf areas and 3" above grade in shrub areas.
- 6. Avoid heavily compacting soil around boxes to prevent damaging valve boxes.
- 7. Heat Brand ID on valve box lid with 2" height letters:

'X1' for Remote Control Valves ('X' = Controller '1' = station number)
'FS' for Flow Sensor
'MV' for Master Control Valve
'GV' for Gate Valve
'QC' for Quick Coupling Valve
'SP' for Splice Box
'PB' for Pull Box

- 8. Install stainless steel bolts in locking cover.
- 9. Designate purple colored boxes and lids with reclaimed water warning tags when used with reclaimed water.
- 10. Install valve box extensions as required to completely enclose valve assemblies.
- 11. Cover box cut-outs with 10 MIL pipe tape to prevent soil in box.

NOT TO SCALE

STD. PLAN NO.

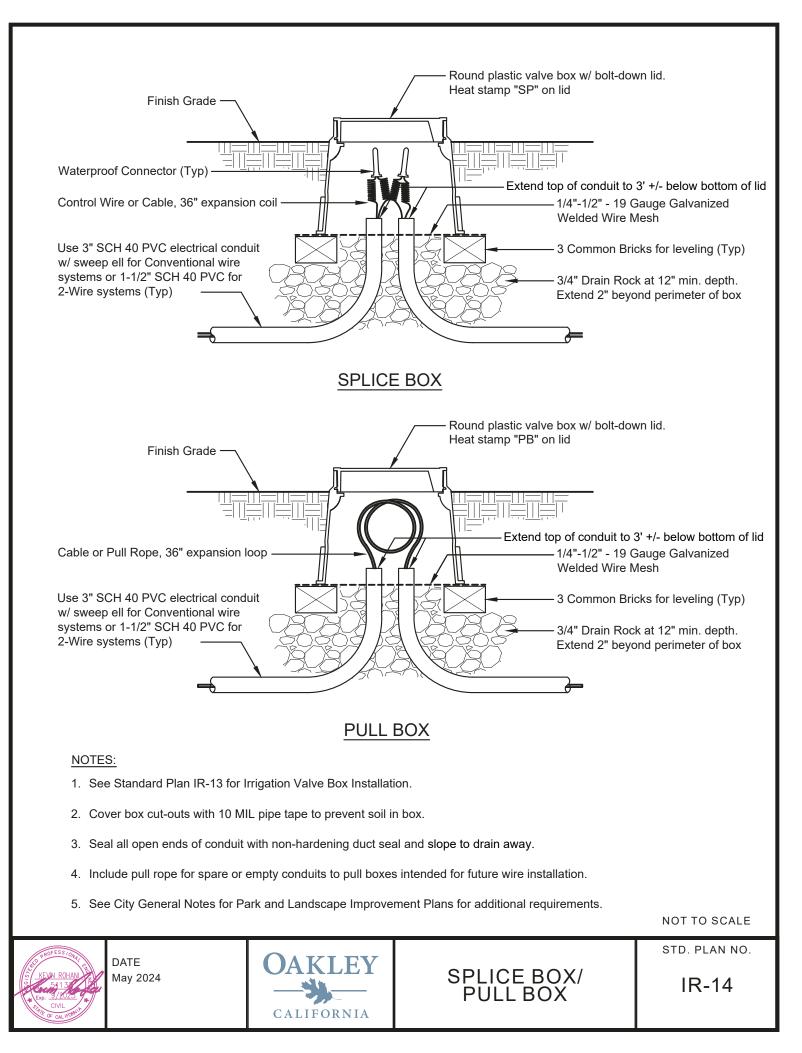
**IR-13** 

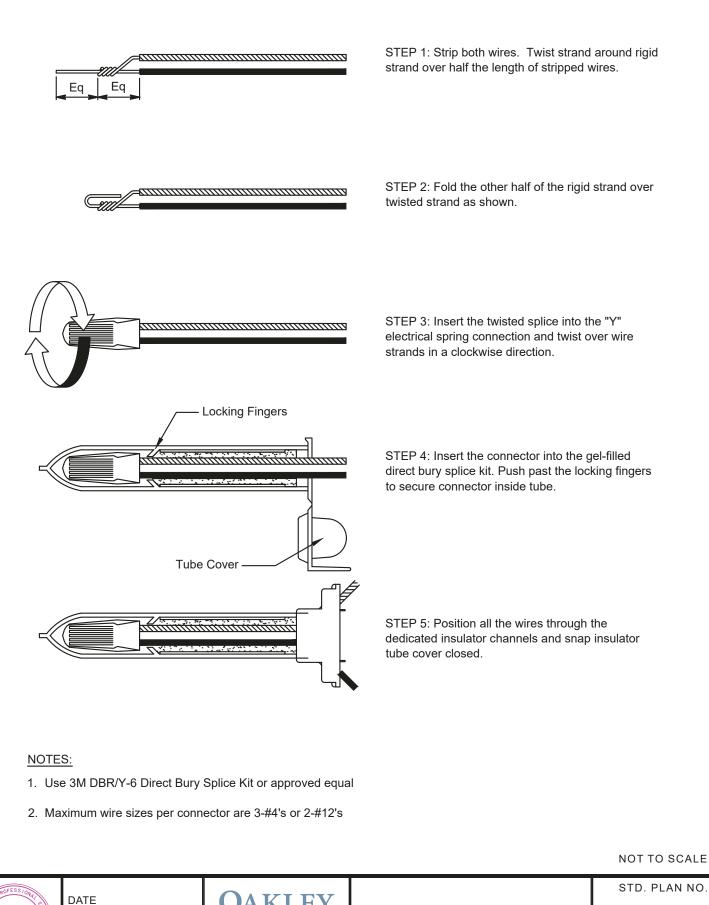


DATE May 2024





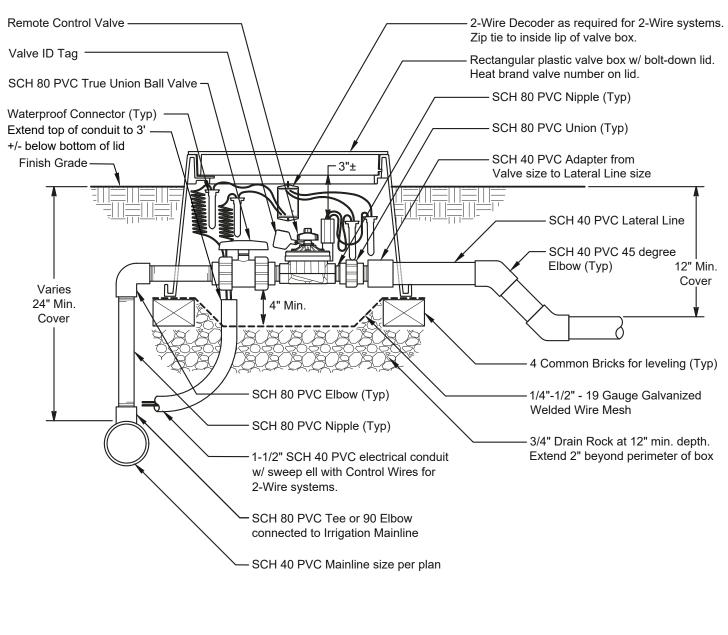




May 2024



IRRIGATION WIRE CONNECTION



- 1. Provide a 36" expansion coil at wire connections.
- 2. See Standard Plan IR-13 for Irrigation Valve Box Installation.
- 3. Designate purple color-coding on appropriate appurtenance and reclaimed water warning tags when used with reclaimed water.
- 4. Cover box cut-outs with 10 MIL pipe tape to prevent soil in box.
- 5. Terminate conduit inside valve box in location to prevent obstruction of servicing equipment.
- 6. Seal all open ends of conduit with non-hardening duct seal and slope to drain away.

NOT TO SCALE

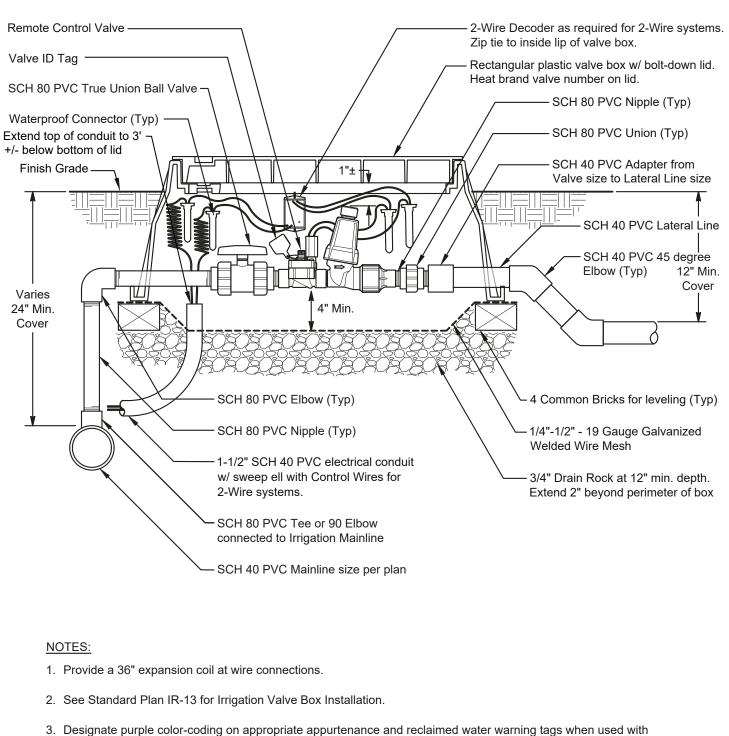
STD. PLAN NO.



DATE May 2024







- reclaimed water.
- 4. Cover box cut-outs with 10 MIL pipe tape to prevent soil in box.
- 5. Terminate conduit inside valve box in location to prevent obstruction of servicing equipment.
- 6. Seal all open ends of conduit with non-hardening duct seal and slope to drain away.

NOT TO SCALE

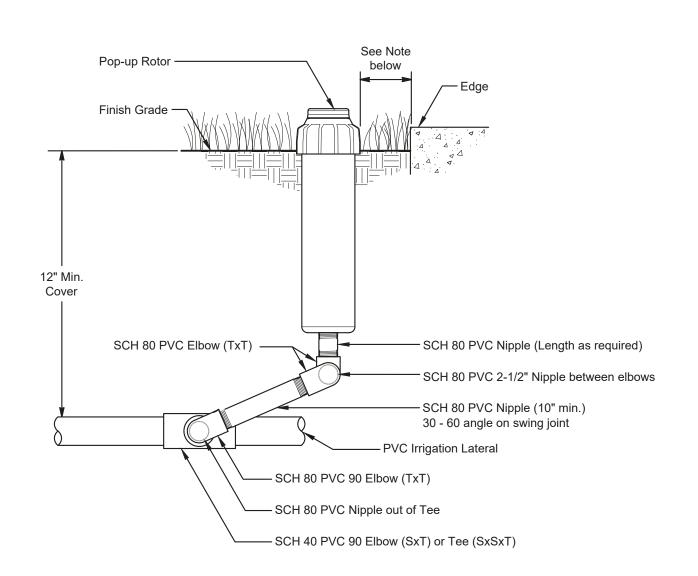


DATE May 2024





STD. PLAN NO.



- 1. Set head 1" above grade in turf areas and 3" above grade in shrub areas.
- 2. 2" clear in turf and 6" clear in shrub areas from edges i.e. header, mowband, wall, fence, or pavement.
- 3. Set all heads minimum of 24" clear from edge of impervious pavement that does not drain into landscape.

NOT TO SCALE

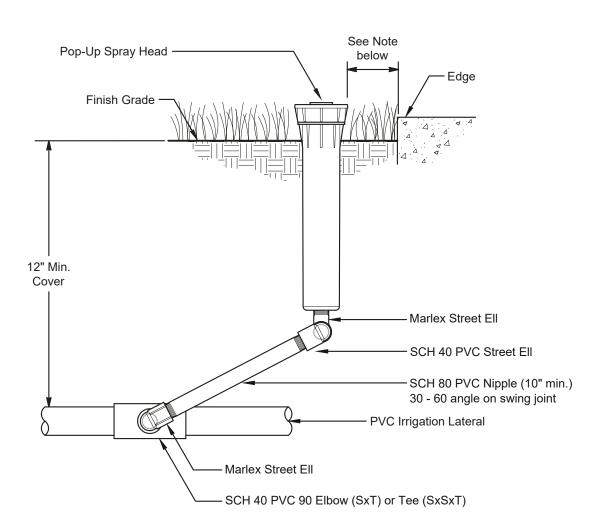
STD. PLAN NO.



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NOT TO SCALE

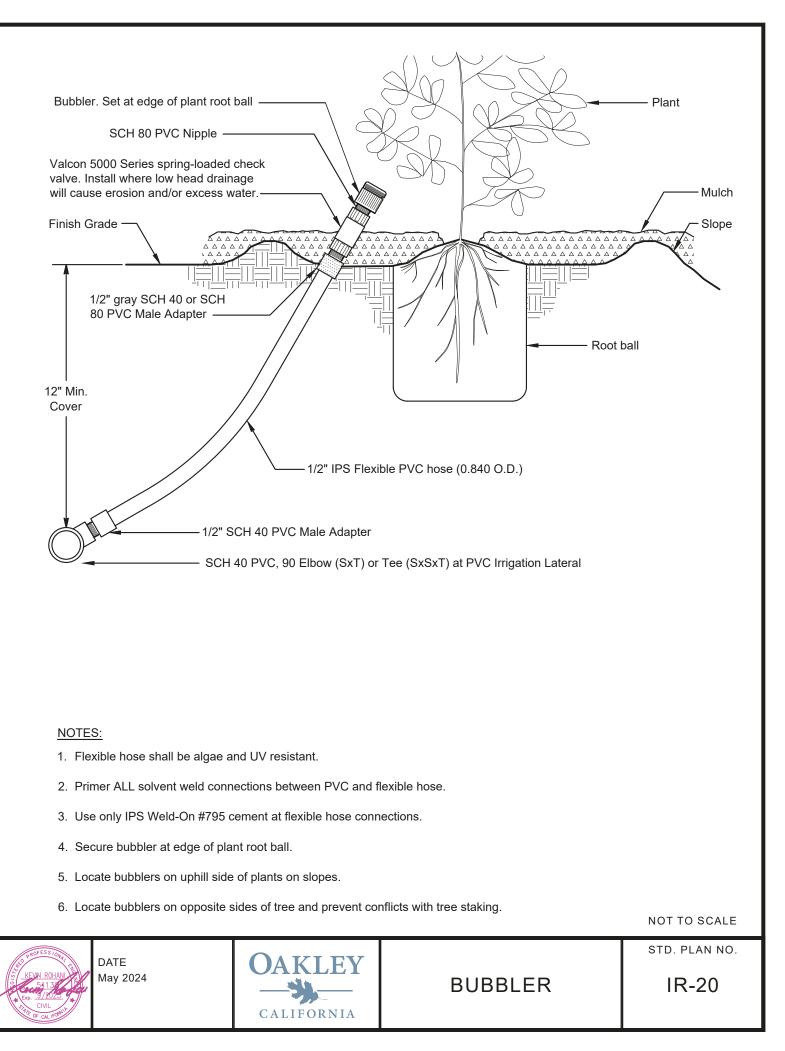
STD. PLAN NO.



DATE May 2024



POP-UP SPRAY HEAD IR-19



# SITE AMENITIES

1. All Outdoor Creation Inc. products to include City logo and anti-graffiti Nano Tech Barrier sealer coat.

2. All steel near overhead irrigation shall be galvanized and powder coated or stainless steel.

ITEM	MANUFACTURER/MODEL (OR APPROVED EQUAL)	NOTES
Park Bench	Dumor Bench Model: 119-60	Vertical Slat w/back, Non-skateboard, Black, Middle arm rest
Park Bench - Concrete	Outdoor Creations Inc. Bench Model: 408SKB	Concrete color: Davis Sequoia Sand or approved alternate City of Oakley Logo: 11" x 5.2" in full relief on backrest, no color
Picnic Table	Outdoor Creations Inc. Side Entrance Table Model: 100S and 107S or 108S	Concrete color: Davis Sequoia Sand or approved alternate City of Oakley Logo: 11" x 5.2" in full relief on table legs (2) no color, use skate blocks and ADA accommodations
Group Barbeque - Concrete	Outdoor Creations Inc. Group BBQ Model:3001AG	Concrete color: Davis Sequoia Sand or approved alternate City of Oakley Logo: 11" x 5.2" in full relief on opposing sides (2) of receptacle, no color
Barbeque - Concrete	Outdoor Creations Inc. Family BBQ Model: 3001A	Concrete color: Davis Sequoia Sand or approved alternate City of Oakley Logo: 11" x 5.2" in full relief on opposing sides (2) of receptacle, no color
Drinking Fountain	Haws Barrier Free Stainless Steel Pedestal Fountain Model: 3500D-FR	Vandal resistant, green powder coated finish with pet fountain, use Freeze Resistant Bury Valve as specified by the City
Trash Receptacle	Outdoor Creations Inc. Concrete Trash Receptacle-Round Model: 500	Concrete color: Davis Sequoia Sand or approved alternate City of Oakley Logo: 16" x 6" engraved and painted as specified on 1 side of trash can. Stainless steel powder coated lid & galvanized cable, bolts, nuts and washer.
Recycle Receptacle	Outdoor Creations Inc. Concrete Trash Receptacle-Round Model: 500	Concrete color: Davis Sequoia Sand or approved alternate City of Oakley Logo: 16" x 6" engraved and painted as specified on 1 side of trash can. Stainless steel powder coated lid & galvanized cable, bots, nuts and washer.
Trash & Recycle Receptacle (Option)	Outdoor Creations Inc. Concrete Dual Trash & Receptacle Rectangular Model: 511	Concrete color: Davis Sequoia Sand or approved alternate City of Oakley Logo: 11" x 5.2" in full relief on 1 side of trash can. Blue door for recycle receptacle door
Dog Waste Dispenser	Zero Waste Model: JJ1B008	Install on 6x6 PTDF Post City standard sign available for purchase from City
Bleachers	Patterson Williams Model: 1171-315A	3-Row, 15' aluminum frame bleacher without guardrail
Park Sign	Outdoor Creation Inc. Model: 7070S with 703C Base	Concrete color: Davis Sequoia Sand Park name & address: as approved by City
Bollards - Removable	1-800-Bollards Model: RPSS4000-1	Color: as approved by City
Perimeter Fence	American Precast Concrete Inc. Model: Woodcrete Rails	3'3" tall, 2 rails Color: Buff
Perimeter Fence (Option)	None	3' tall, 2 rails, see detail M-04
Playground Fence	As required by ASTM F2049-11	
Playground Surfacing	sofSURFACES Model: duraSAFE 5.25	Color: as approved by City Premium 95 Series
Restroom Facility	CXT Precast Product Model: Cortez-19	Color and fixtures: as approved by City

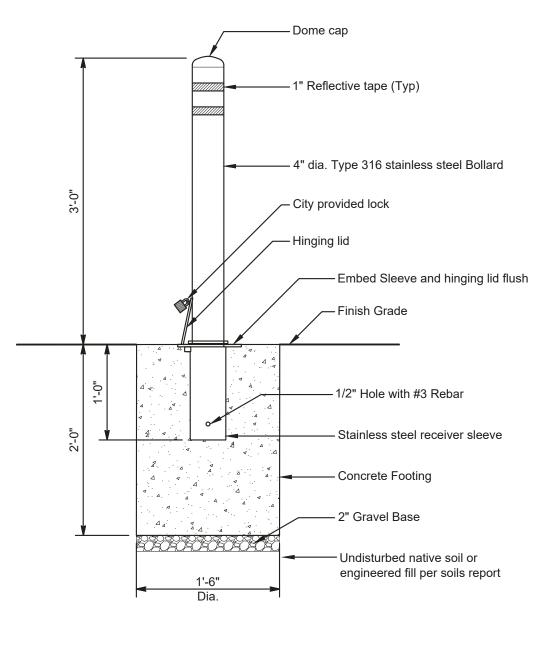


DATE May 2024



SITE AMENITIES

NOT TO SCALE STD. PLAN NO.



SECTION

#### NOTES:

- 1. Add reflective tape, two 1" bands at top.
- 2. Installation to be completed in accordance with manufacturer's specifications.
- 3. Bollard shall be as manufactured by 1800Bollards, (800) 265-5273 or www.1800Bollards.com.

NOT TO SCALE

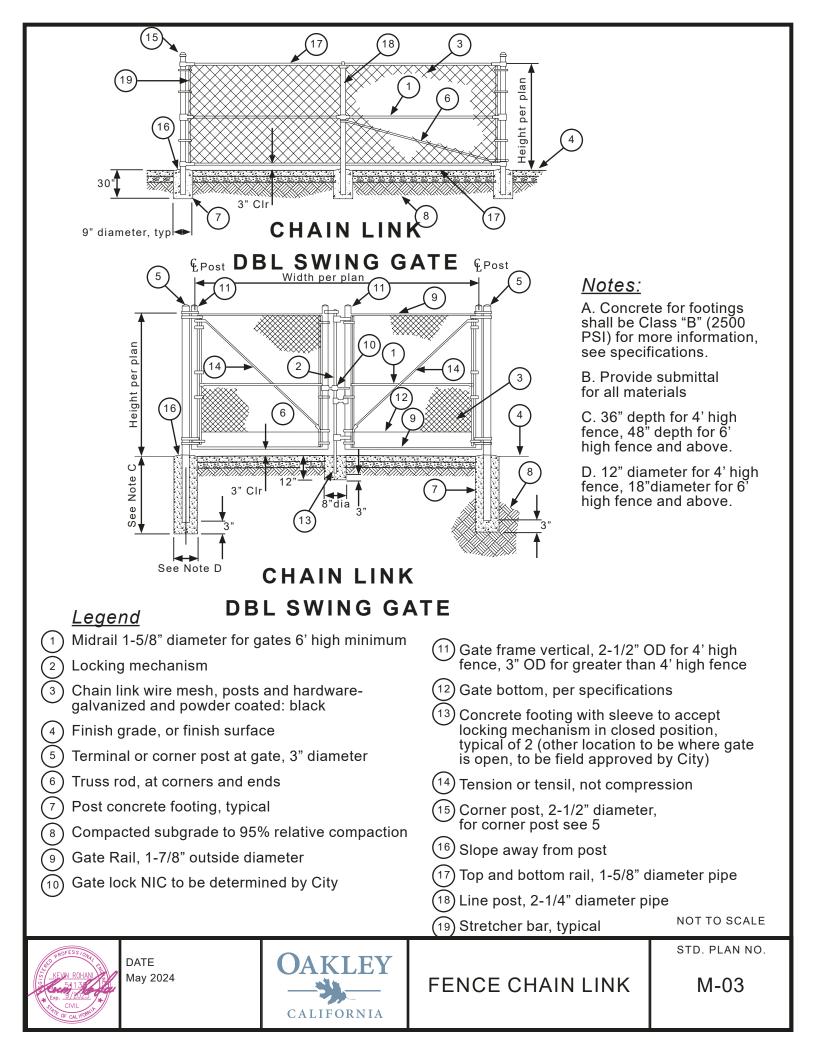


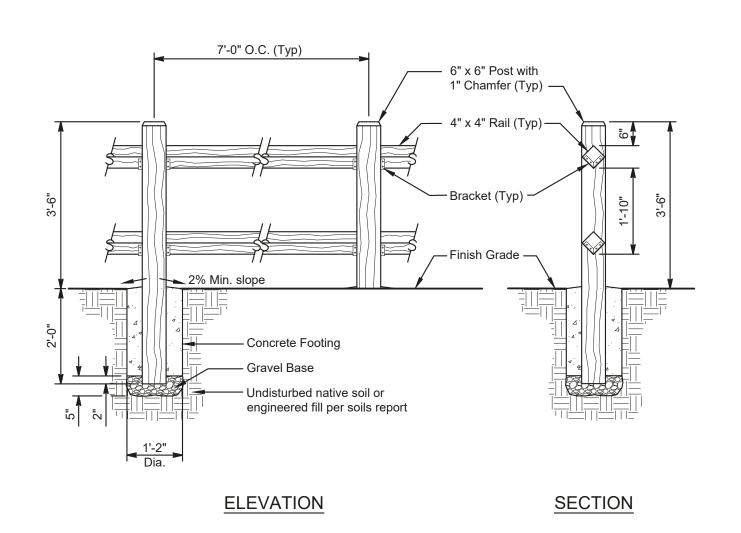
DATE May 2024

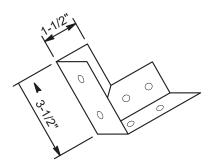




std. plan no. M-02







**BRACKET ENLARGEMENT** 

### NOTES:

- 1. All wood to be rough sawn redwood. All posts shall be pressure treated.
- 2. Slope rails with grade, do not step.
- 3. Attach brackets with 10d common, galvanized nails.
- 4. Bracket shall be 18 gauge galvanized steel.



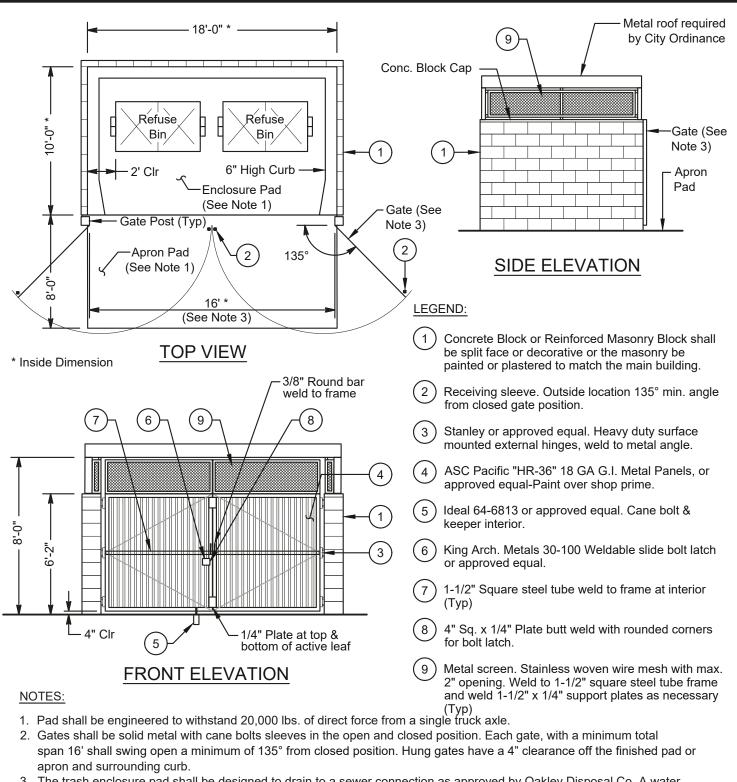


DATE May 2024



PERIMETER FENCE

STD. PLAN NO.



- The trash enclosure pad shall be designed to drain to a sewer connection as approved by Oakley Disposal Co. A water connection may be required by the Contra Costa County Health Department.
- 4. The enclosure exterior shall comply with standard Conditions of Approval for commercial and industrial projects. No enclosure shall be installed behind parking spaces.
- 5. Only solid waste containers and recycle containers are allowed inside the enclosure. Grease storage bins, soiled rag storage, etc. shall never be stored in the enclosure.
- 6. Roof and gates shall be powder coated and match in color.
- 7. Non-sacrificial anti-graffiti coating shall be applied to all visible surfaces of trash enclosure.

NOT TO SCALE

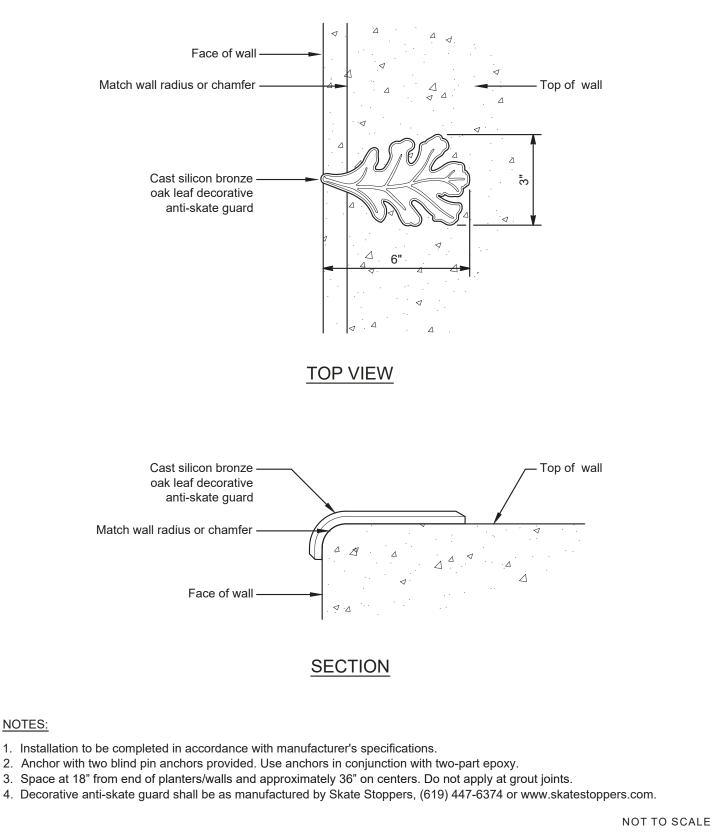


DATE May 2024





STD. PLAN NO.



Krun Rohan

DATE May 2024





STD. PLAN NO.