



Transit Oriented Development Packing House District

Streetscape Master Plan

*NUVIS Landscape Architecture
for the City of Placentia*





Deciduous parkway tree with tree guard in grate

Dedicated bike path

PRIVATE DRIVEWAY

CROWTHER AVE.

Proposed future gateway arch signage

PRIVATE DRIVEWAY

Enhanced pervious interlocking paver at crosswalk

Site Amenities Legend

- Tree Grates
- Backed Benches
- Trash/Recycle Receptacles
- Bike Rack
- Bollards
- Street/Pedestrian Lights with Banners
- Cantilever Gateway Signage

57 FREEWAY OVERPASS

CROWTHER

EVELYN PL.

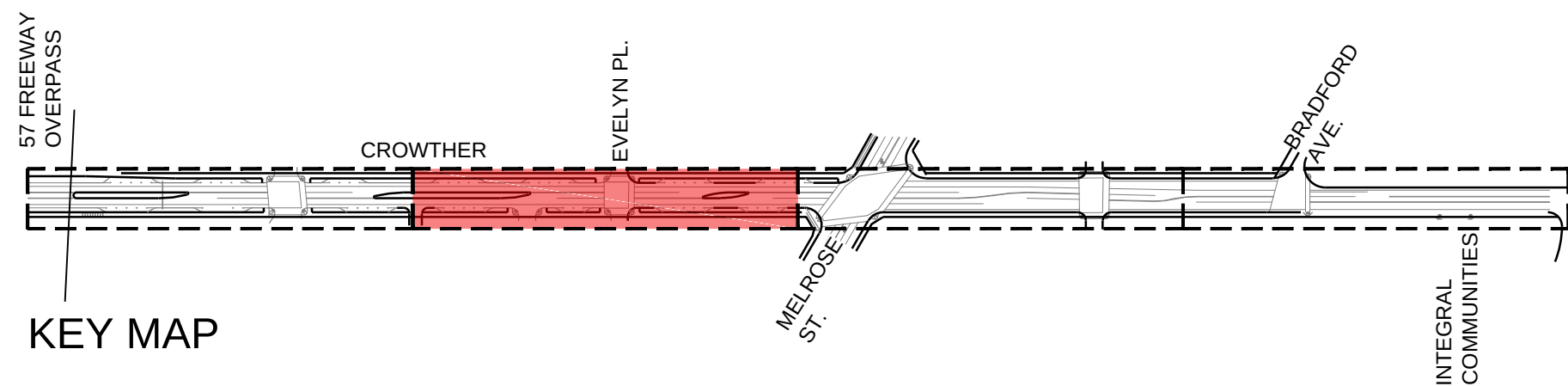
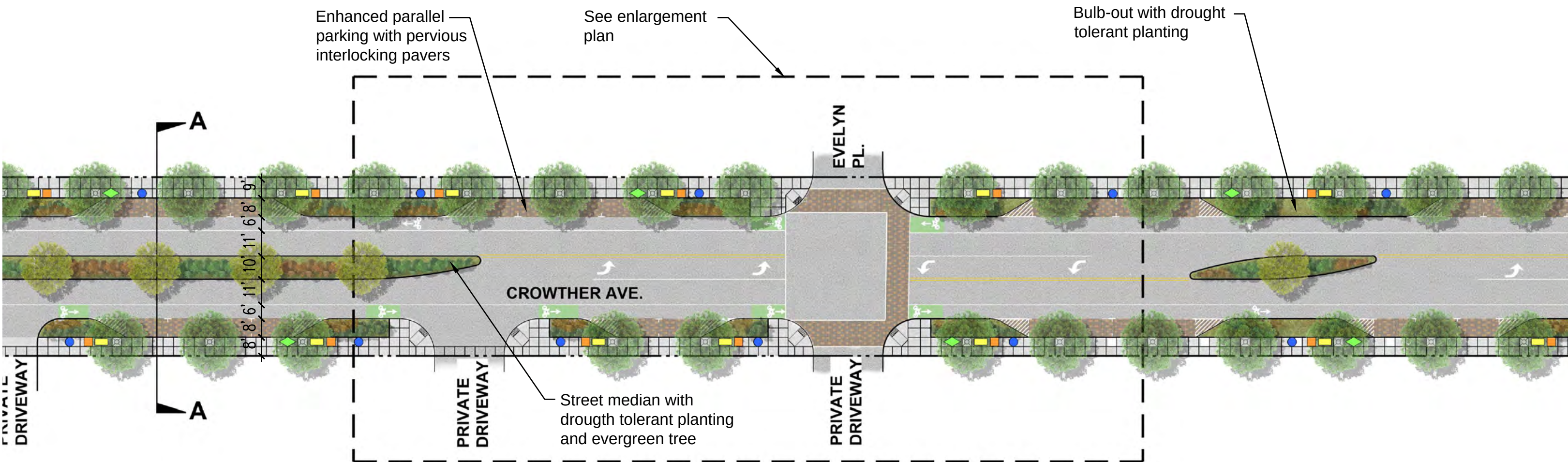
MELROSE ST.

BRADFORD AVE.

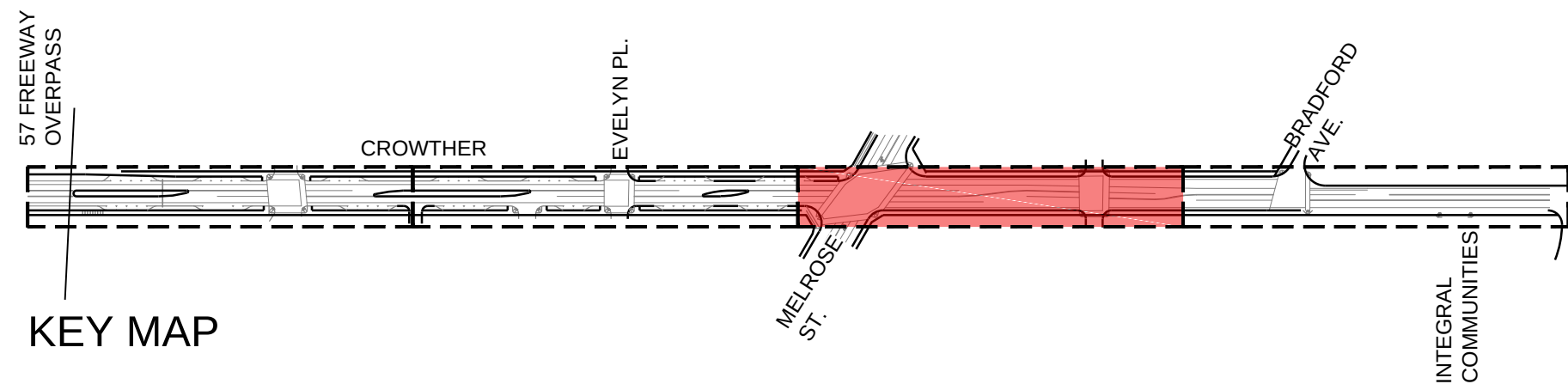
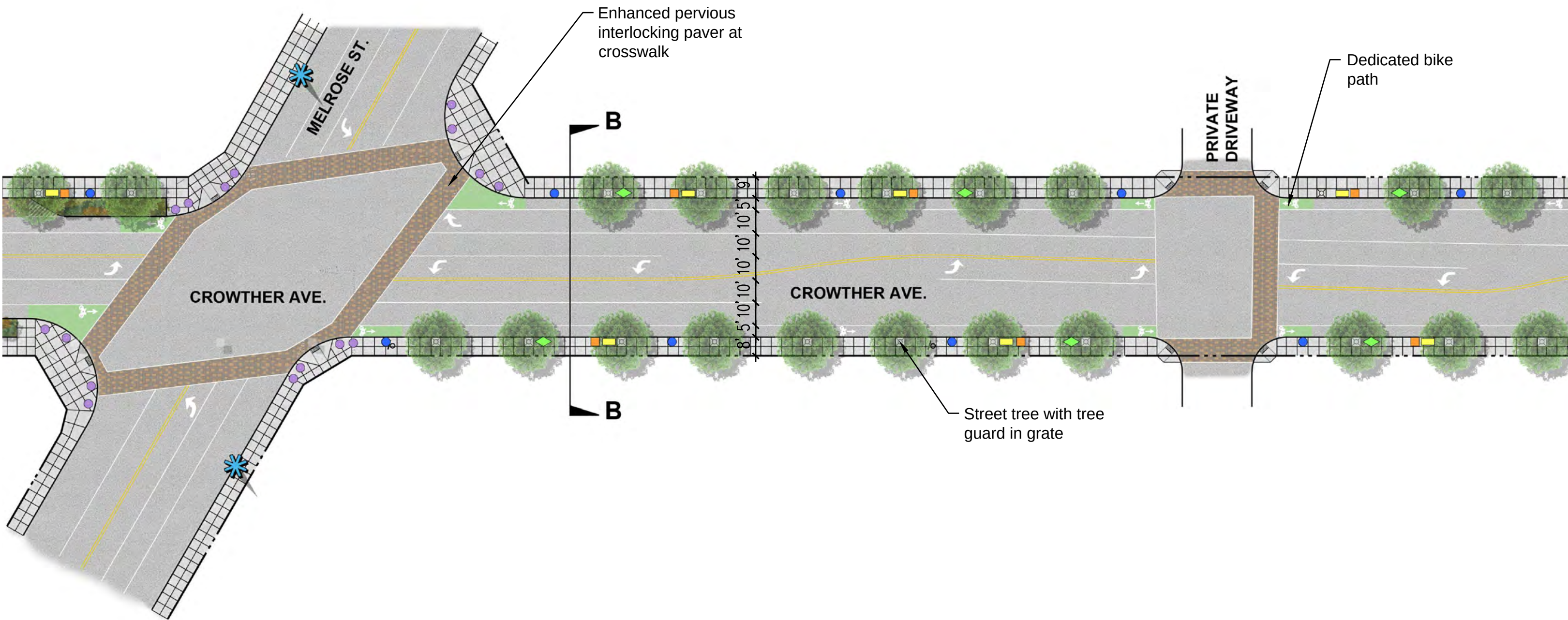
INTEGRAL COMMUNITIES

KEY MAP

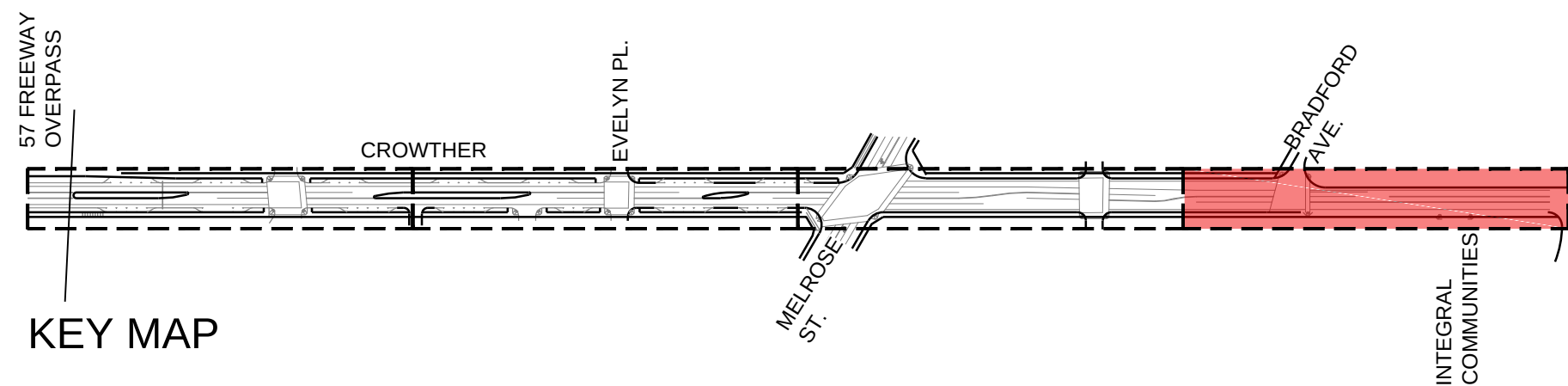
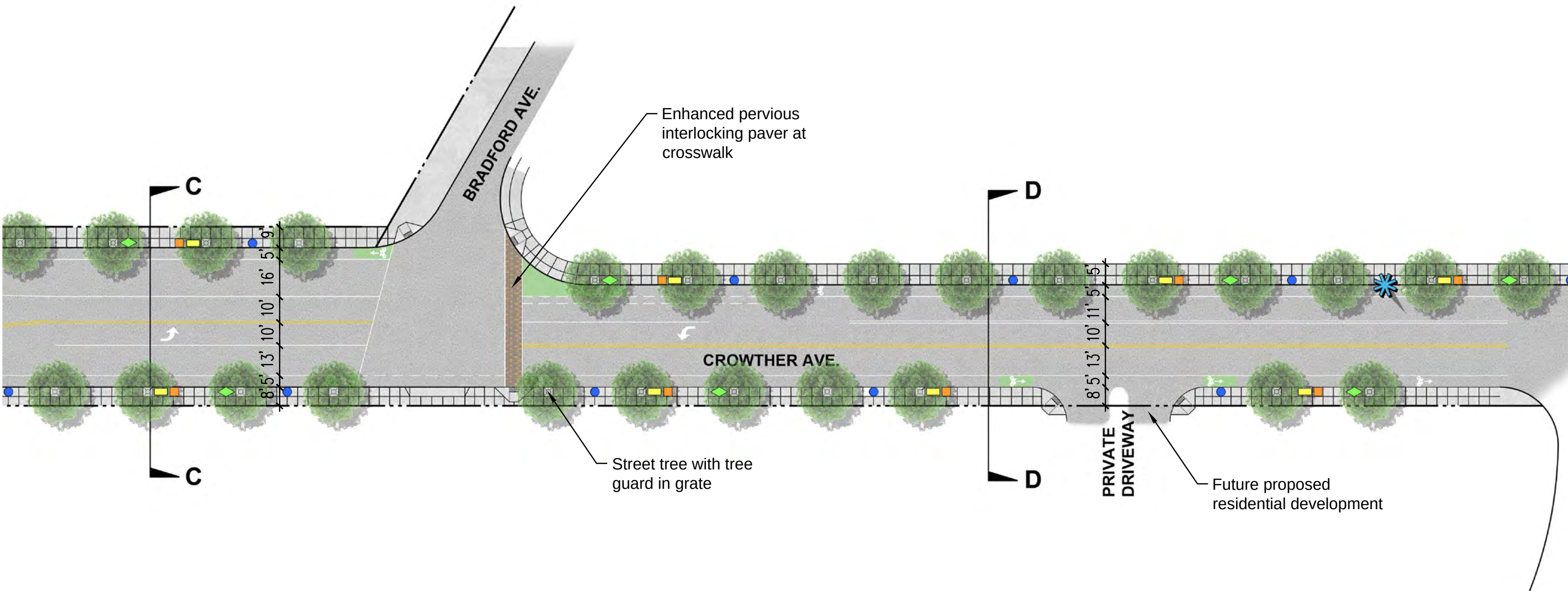
Crowther Avenue Preliminary Plan TOD PACKING HOUSE DISTRICT Placentia, CA



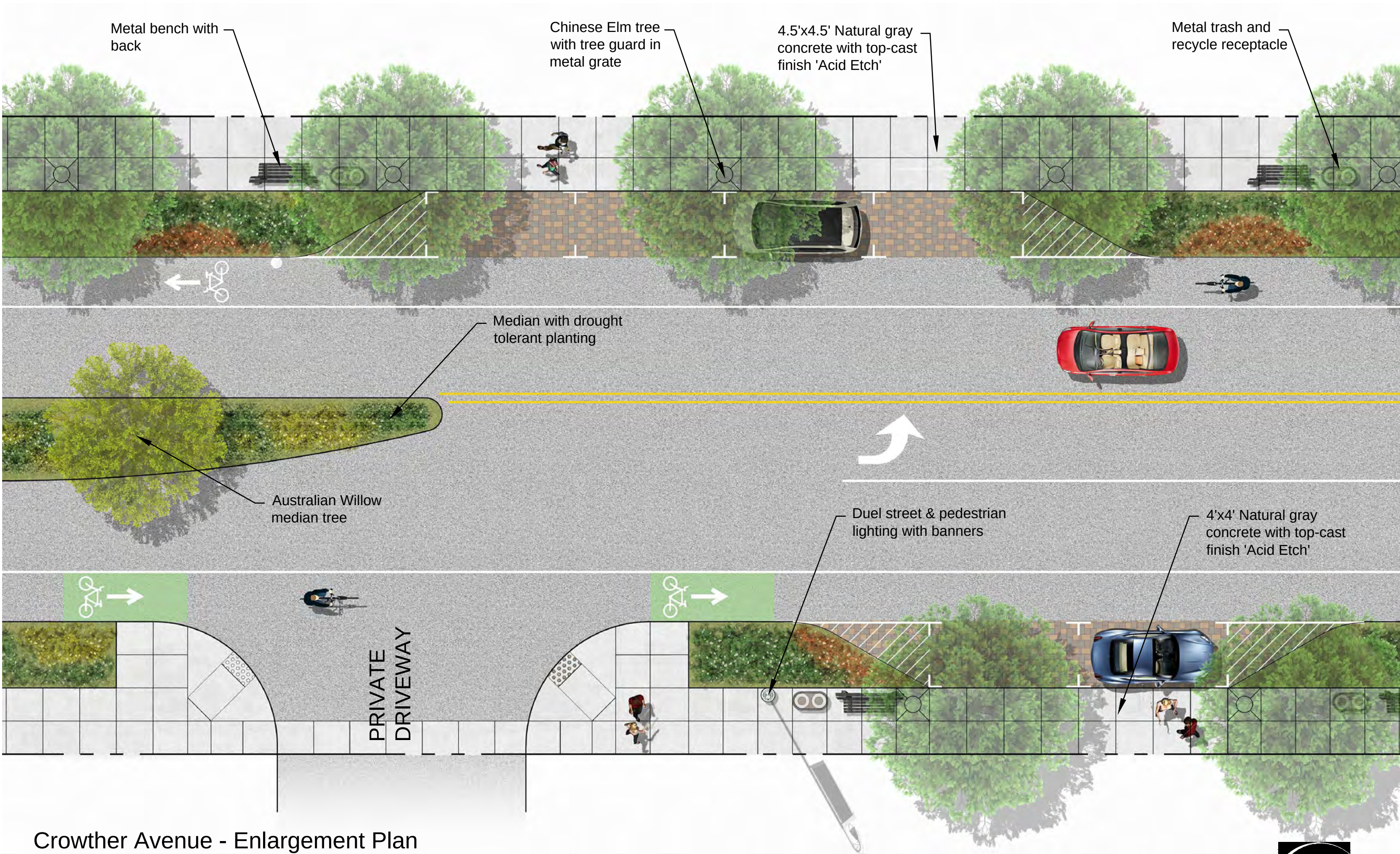
Crowther Avenue Preliminary Plan
 TOD PACKING HOUSE DISTRICT
 Placentia, CA



Crowther Avenue Preliminary Plan
 TOD PACKING HOUSE DISTRICT
 Placentia, CA



Crowther Avenue Preliminary Plan
 TOD PACKING HOUSE DISTRICT
 Placentia, CA



Metal bench with back

Chinese Elm tree with tree guard in metal grate

4.5'x4.5' Natural gray concrete with top-cast finish 'Acid Etch'

Metal trash and recycle receptacle

Median with drought tolerant planting

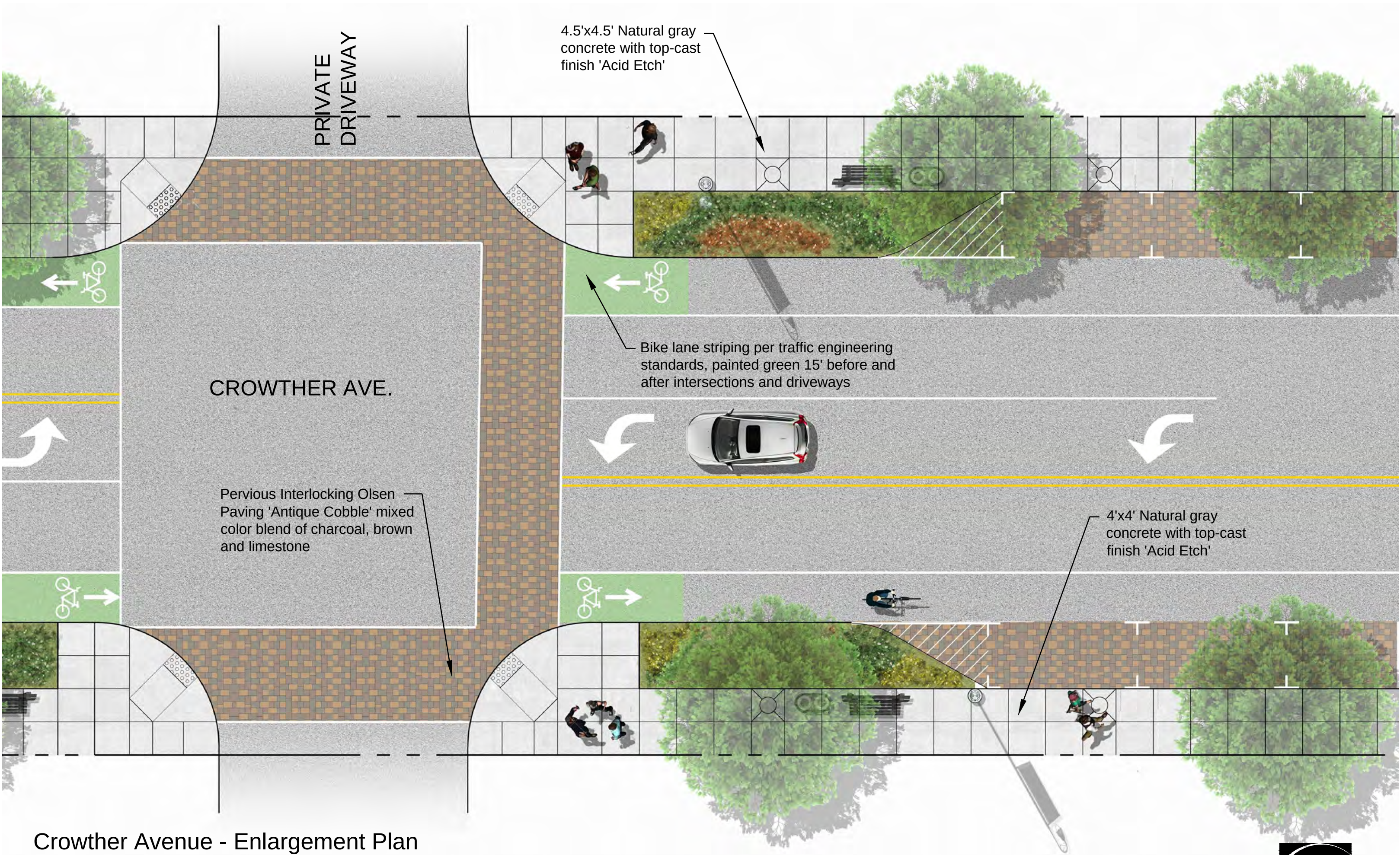
Australian Willow median tree

Dual street & pedestrian lighting with banners

4'x4' Natural gray concrete with top-cast finish 'Acid Etch'

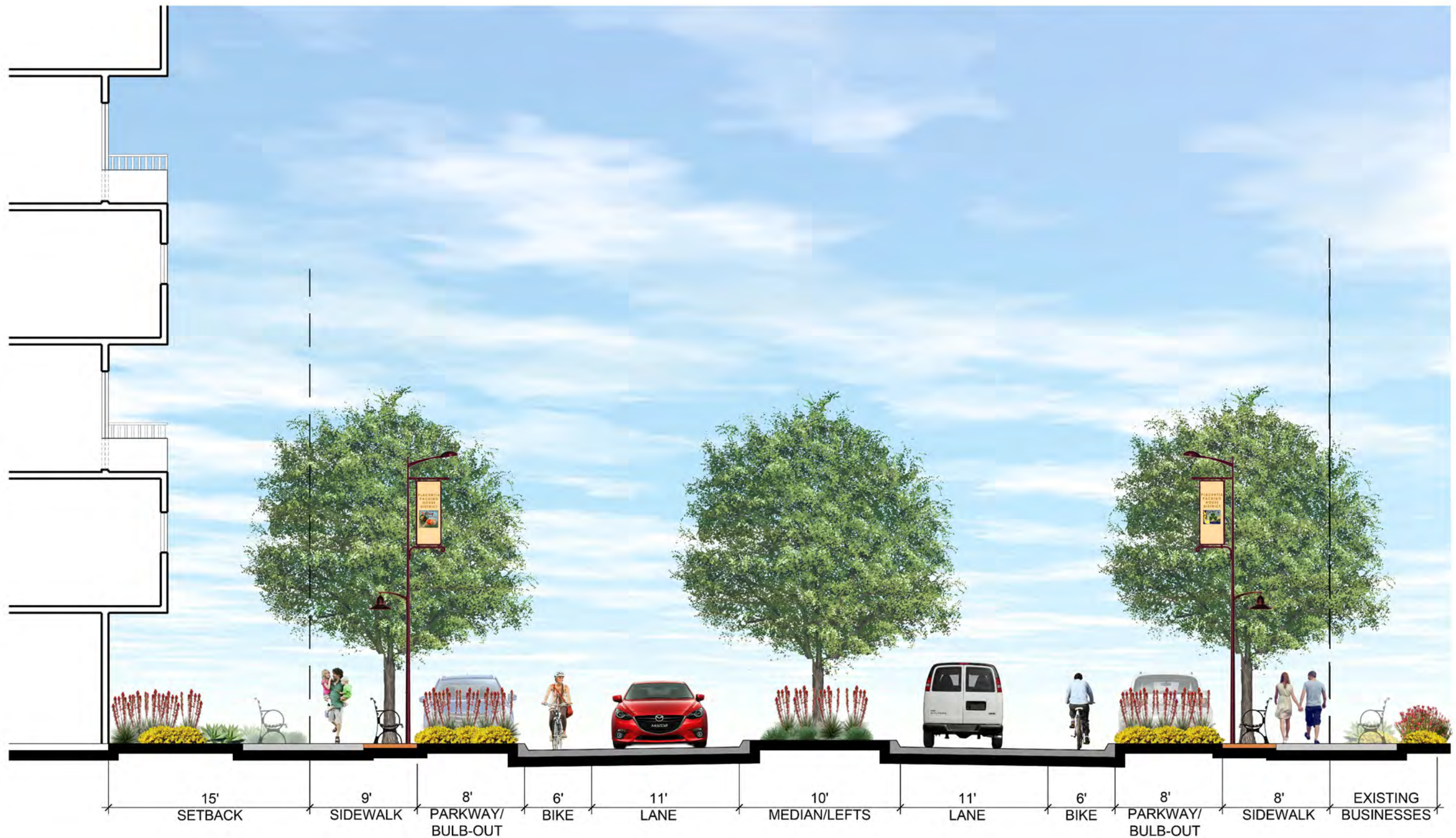
PRIVATE DRIVEWAY

Crowther Avenue - Enlargement Plan
TOD PACKING HOUSE DISTRICT
Placentia, CA

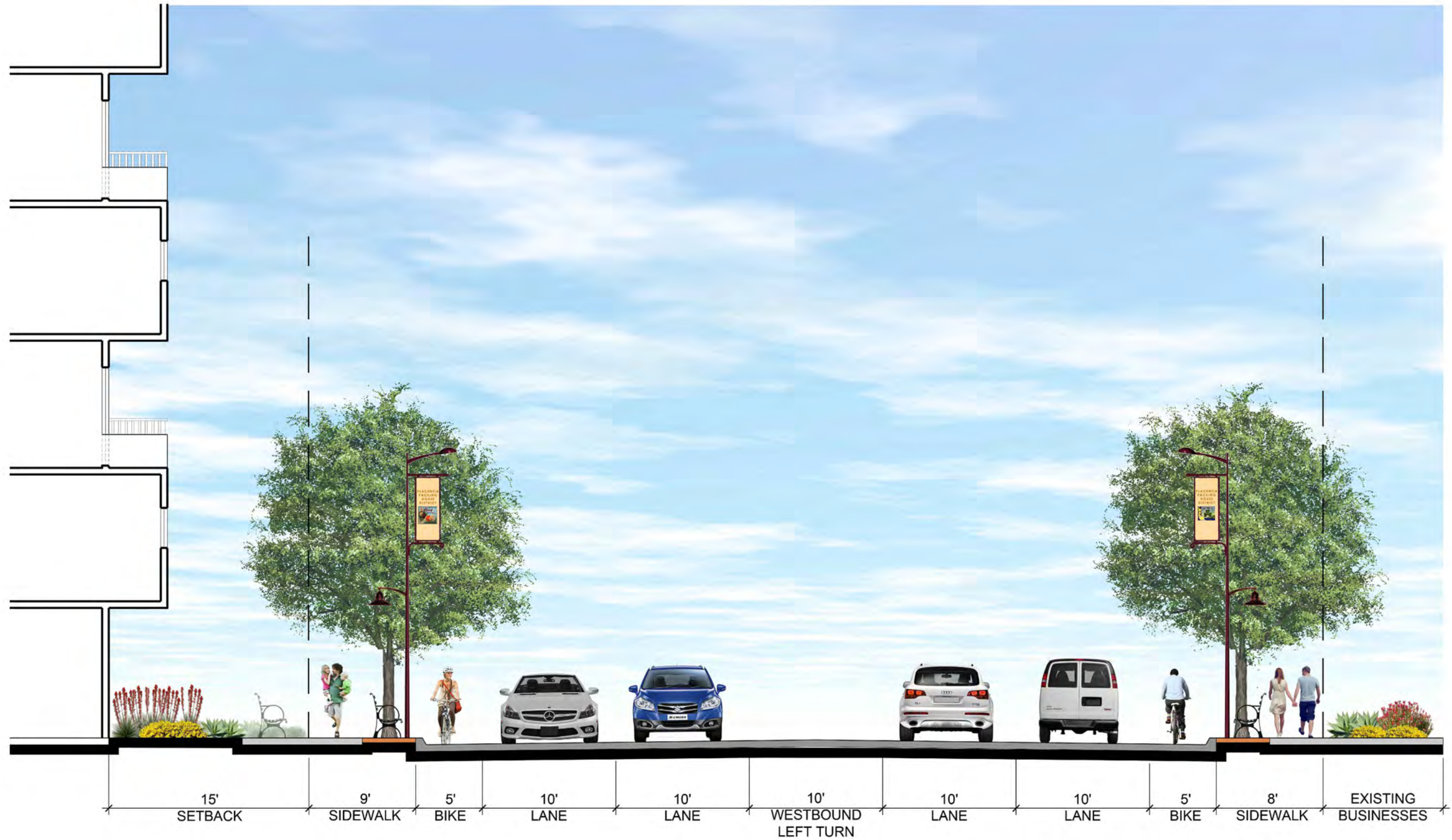




Crowther Ave. Simulation
TOD PACKING HOUSE DISTRICT
Placentia, CA



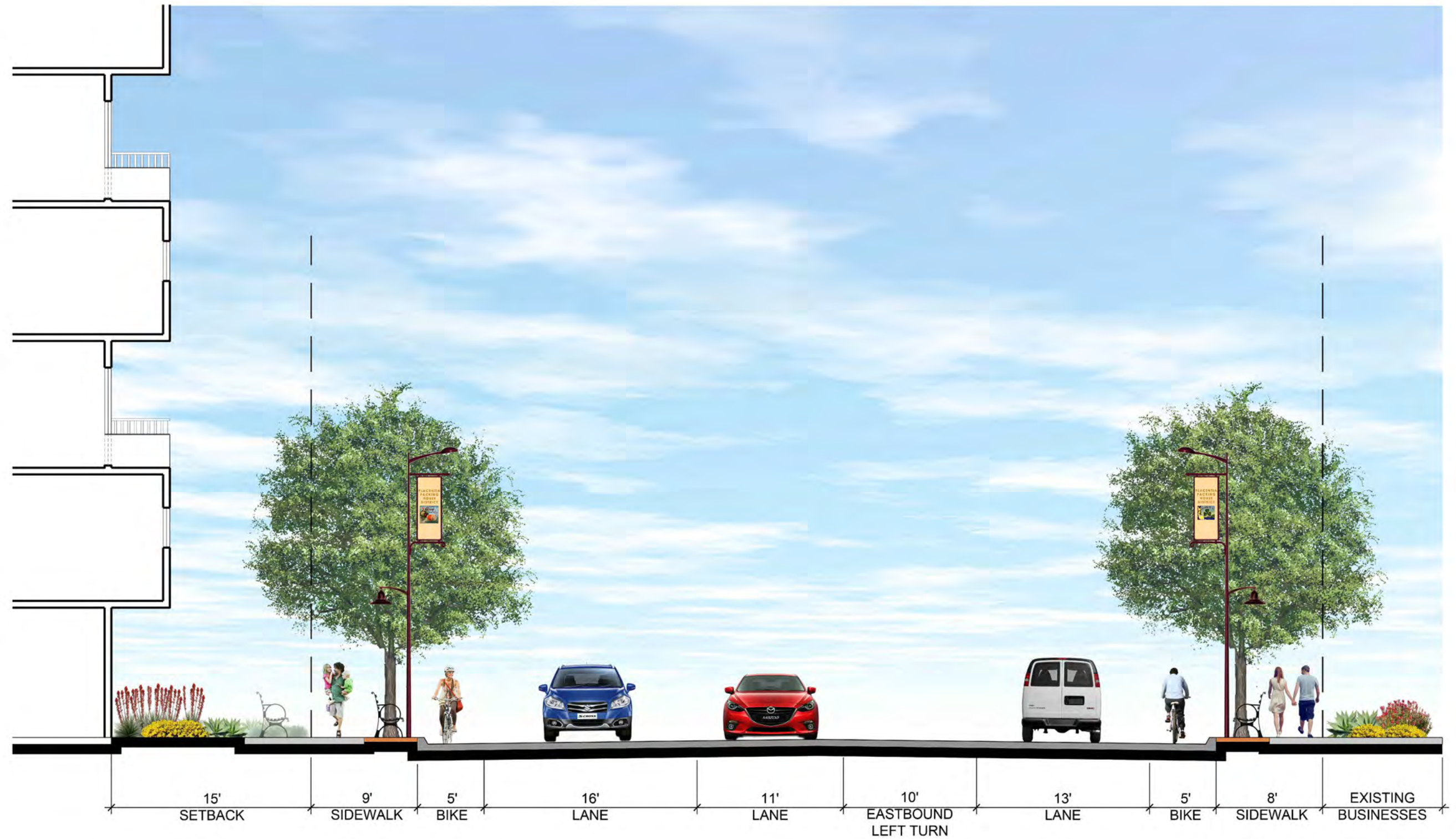
Section A-A with Median and Bulb-Out
TOD PACKING HOUSE DISTRICT
 Placentia, CA



Section B-B with 5 Traffic Lanes
TOD PACKING HOUSE DISTRICT
Placentia, CA

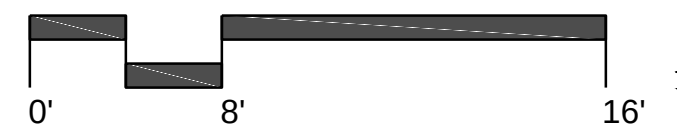
SCALE: 1"=8'-0"

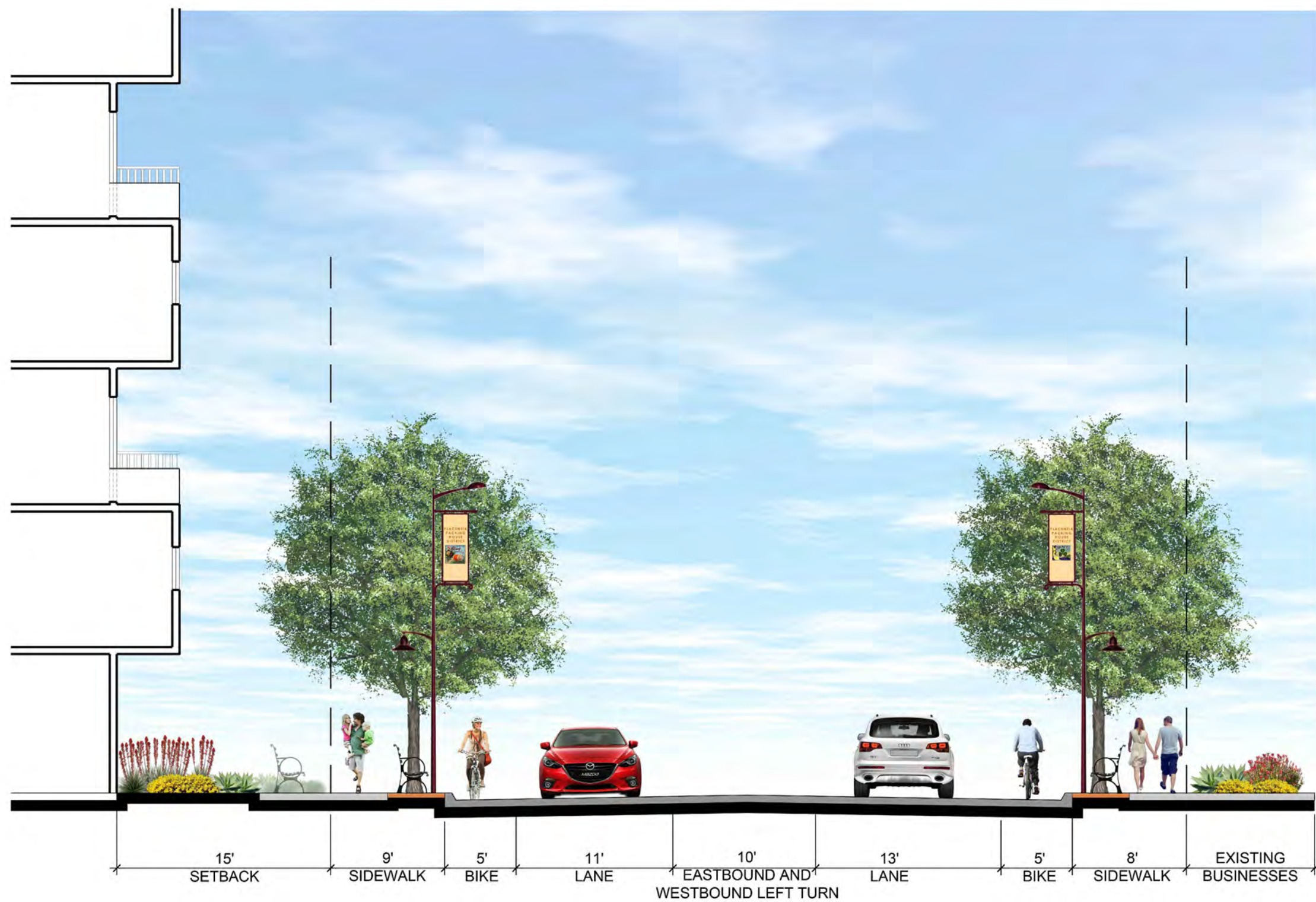




Section C-C With 4 Traffic Lanes
TOD PACKING HOUSE DISTRICT
 Placentia, CA

SCALE: 1"=8'-0"





Section D-D with 3 Traffic Lanes
 TOD PACKING HOUSE DISTRICT
 Placentia, CA

SCALE: 1"=8'-0"

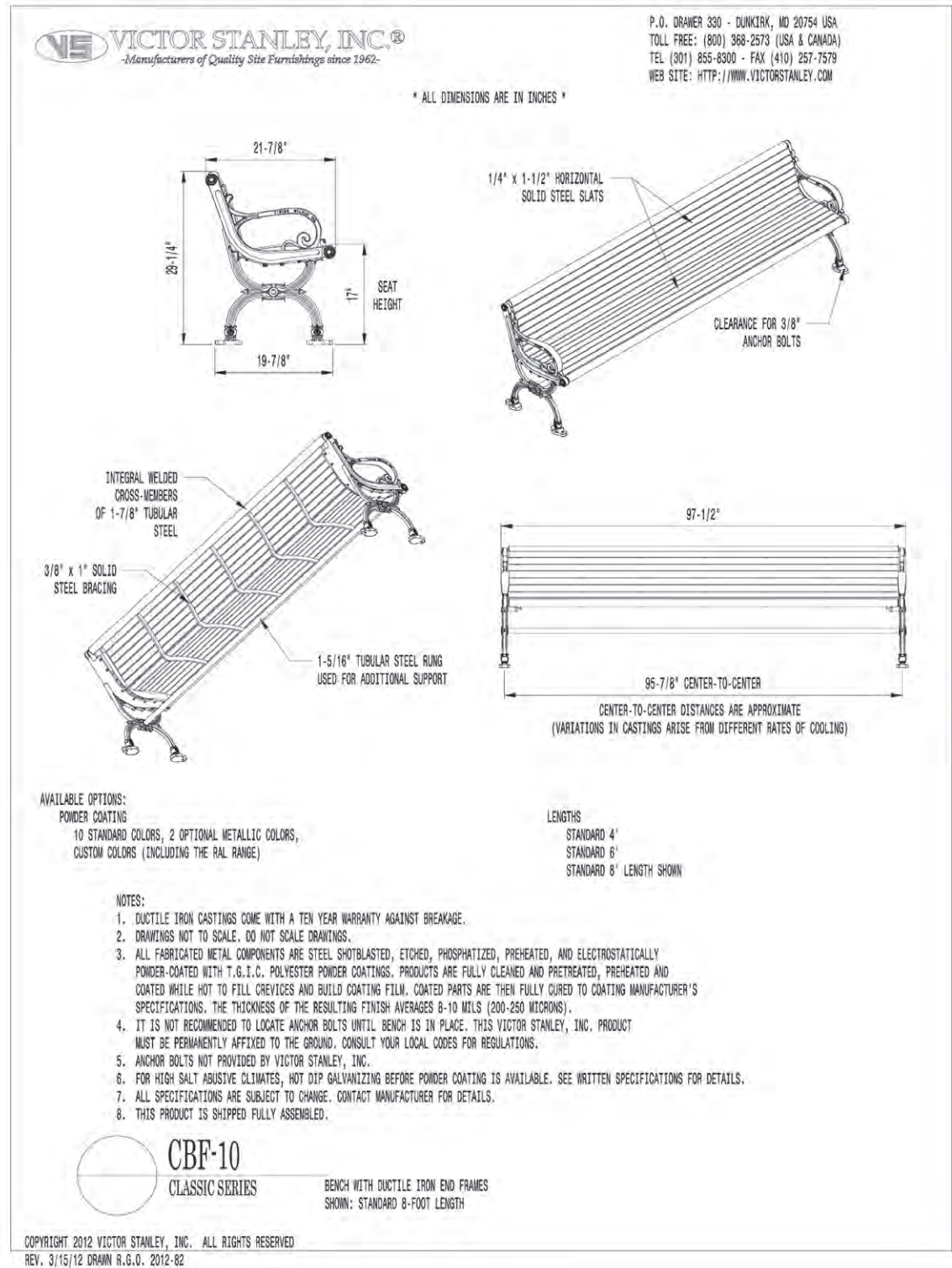




CBF-10
DUCTILE-IRON CASTING
RECYCLED SOLID STEEL BAR

4' LENGTHS - STANDARD
6' AND 8' LENGTHS WITH INTERMEDIATE ARMREST

COLOR BLACK



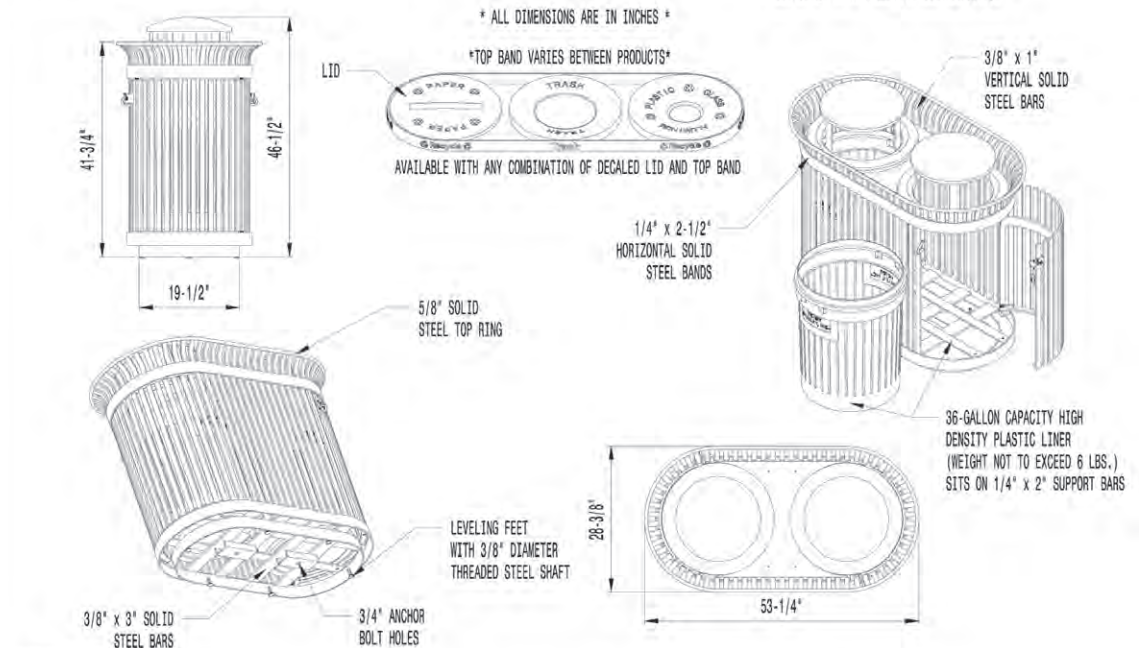
BENCHES
TOD PACKING HOUSE DISTRICT
City of Placentia, CA



SD-242
SIDE DOOR OPENING
RECYCLED SOLID STEEL BAR
'RECYCLE' TOP STEEL BAND
TWO 36 GAL LINERS
DOME LIDS
COLOR BLACK

VICTOR STANLEY, INC.
Manufacturers of Quality Site Furnishings since 1962

P.O. DRAWER 330 - DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL (301) 855-8300 - FAX (410) 257-7579
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM



AVAILABLE OPTIONS:
POWDER COATING
10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS,
CUSTOM COLORS (INCLUDING THE RAL RANGE)
SECURITY
STANDARD WITH LOCKABLE LATCH (AS SHOWN). AVAILABLE WITH OPTIONAL KEYED
LOCK BOX. LID BOLTED IN PLACE. AVAILABLE WITH OPTIONAL MOUNT WITH
3 IN-LINE ANCHOR HOLES AND OPTIONAL BOTTOM PLATE COVER.

LIDS
STANDARD WITH TAPERED FORMED LID. AVAILABLE WITH OPTIONAL DOME LID (AS SHOWN),
DOME LID WITH ASHTRAY, RAIN BONNET LID, RAIN BONNET LID WITH ASHTRAY, CONVEX LID,
CONVEX LID WITH SELF CLOSING DOOR, ENCLOSED DOME LID, ENCLOSED DOME LID WITH
STAINLESS STEEL ASHTRAY, AND RECYCLE LIDS. ASHTRAYS AVAILABLE WITH
OPTIONAL ASHTRAY COVER.
CUSTOM PLAQUES & DECALS
AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE
VINYL OUTDOOR DECALS.

NOTES:

1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. OIL IMPREGNATED BRONZE BUSHINGS AND STAINLESS STEEL PIVOT PINS FOR DOOR MOVEMENT, STANDARD 3/16" SOLID STEEL LATCH ASSEMBLY OR OPTIONAL PATENTED STAINLESS STEEL KEYED LOCK ASSEMBLY.
4. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
5. VICTOR STANLEY, INC., PLASTIC INNER LINERS ARE MOLDED ON TOOLING DESIGNED FOR AND OWNED BY VICTOR STANLEY, INC. THEY OFFER MAXIMUM CAPACITY AND STRENGTH WITH LIGHTWEIGHT CONSTRUCTION USING CRITICAL MOLDED RIBS, INTEGRAL HANDHOLDS, AND HIGH-STRENGTH MATERIALS. THIS MINIMIZES HANDLING DIFFICULTY AND FACILITATES EASY EMPTYING AND STORAGE WHILE AFFORDING LONG SERVICE LIFE.
6. ANCHOR BOLT NOT PROVIDED BY VICTOR STANLEY, INC.
7. FOR HIGH SALT ABUSIVE CLIMATES, HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. HOT-DIP GALVANIZING IS PERFORMED FOR VICTOR STANLEY, INC. BY AN EXPERIENCED QUALIFIED FIRM TO WHICH PRODUCTS ARE SHIPPED FOR GALVANIZING. HOT-DIP GALVANIZING INCLUDES AN AGGRESSIVE PRE-TREATMENT AND IMMERSION IN A TANK OF CHARGED LIQUID ZINC AT OR AROUND 860°F (460°C). THE RESULTING SURFACE IS RESISTANT TO RUST BUT HAS SOME UNEVENNESS RESULTING FROM THE BONDING OF THE ZINC TO THE STEEL SURFACE. AS A RESULT, THE POWDER-COATING SURFACE FINISH OVER THAT GALVANIZED SURFACE MAY EXHIBIT BUMPS, UNEVENNESS, AND MAY NOT BE AS SMOOTH AS THE STANDARD FINISH; THIS UNEVEN AND INCONSISTENT FINISH IS NORMAL FOR GALVANIZING. CONTACT MANUFACTURER FOR DETAILS.
8. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
9. THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.



SD-242
IRONSITES® SERIES

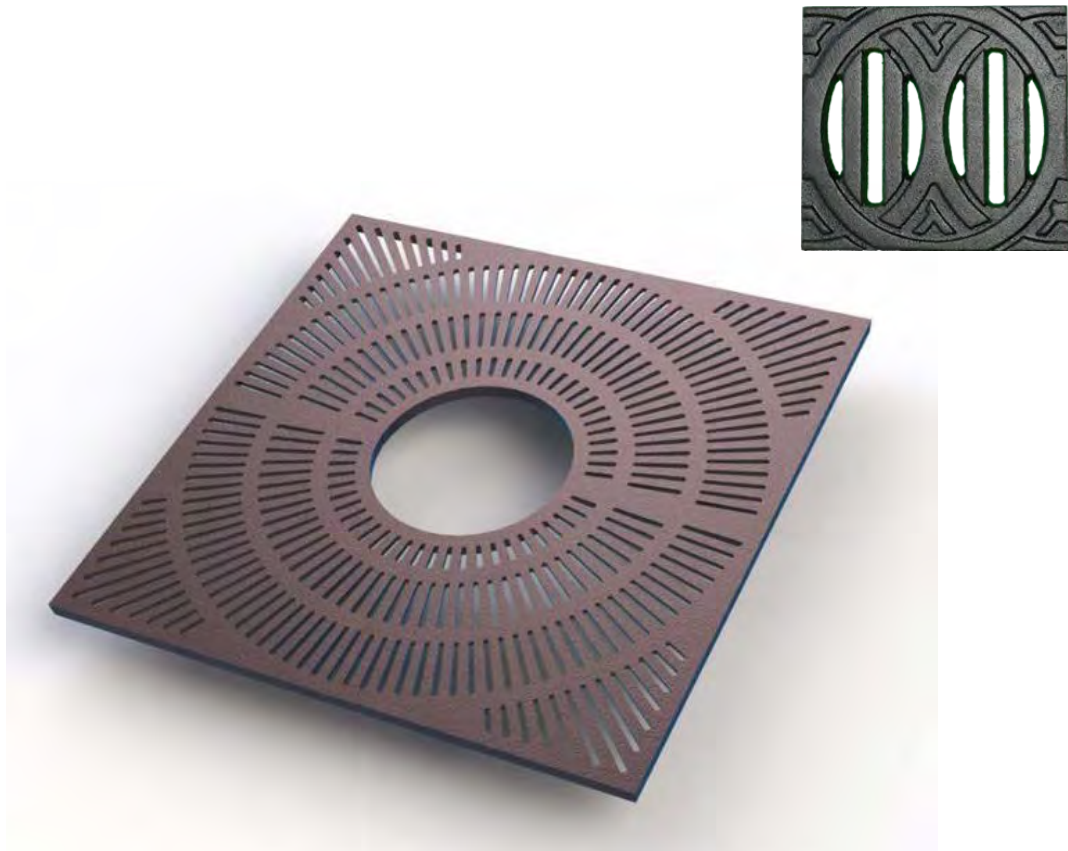
SIDE-DOOR RECYCLING STATION
SHOWN: (2) OPTIONAL DOME LID

COPYRIGHT 2015 VICTOR STANLEY, INC.® ALL RIGHTS RESERVED
REV. 10/15/15 DRAIN C.D.B. 2015-1078

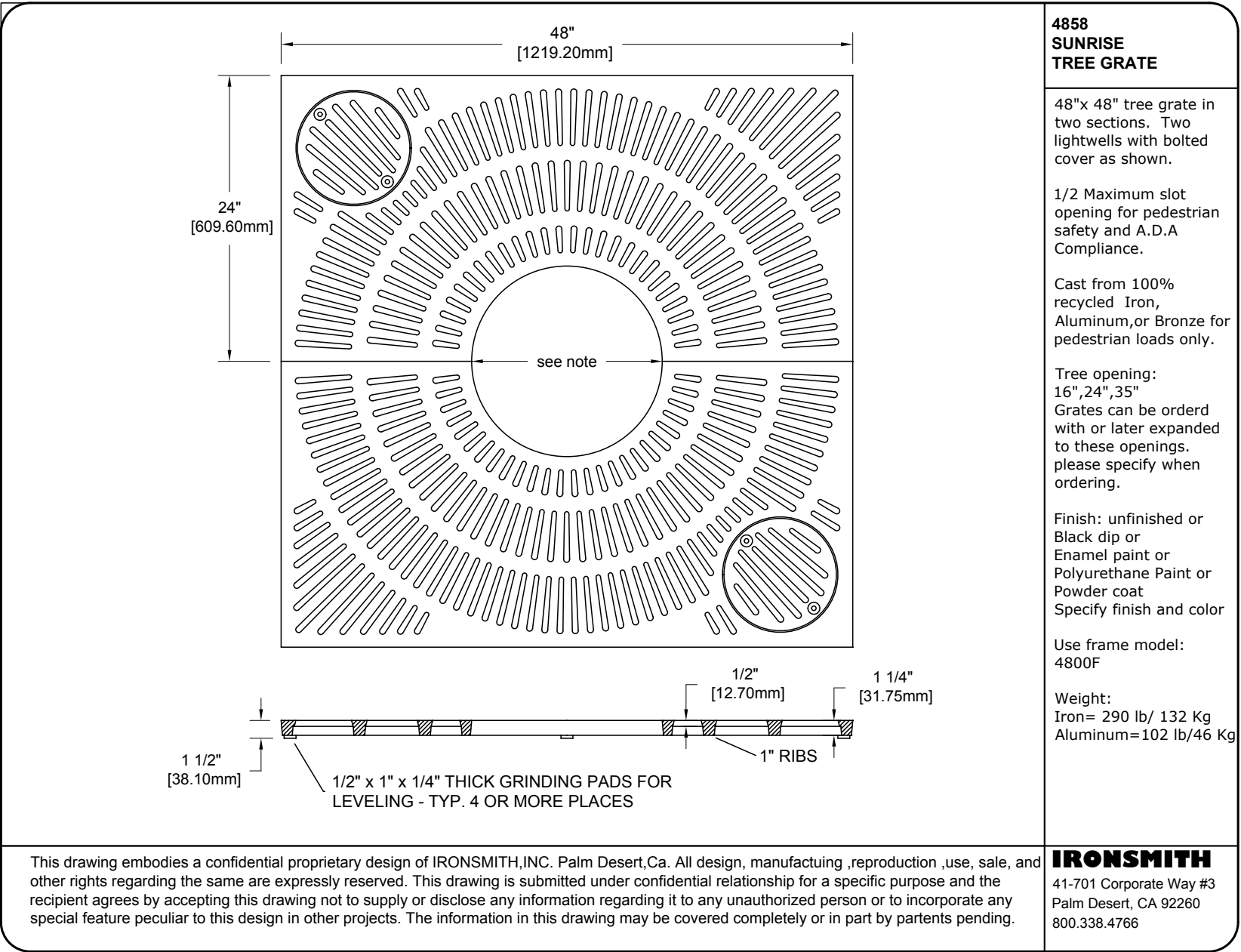
LITTER RECEPTACLES
TOD PACKING HOUSE DISTRICT
City of Placentia, CA

VICTOR STANLEY®





SUNRISE MODEL 48" SQUARE TREE GRATES
 TREE OPENINGS TO BE 24" WITH OPTION FOR EXPANSION TO 35"
 2 UP-LIGHTWELLS FLUSH OR BELOW GRADE
 PLUMBED WITH CONDUIT TO ACCOMODATE APPROX. 4 PLUGS
 COLOR TO BLACK POWDERED



TREE GRATE

TOD PACKING HOUSE DISTRICT

City of Placentia, CA





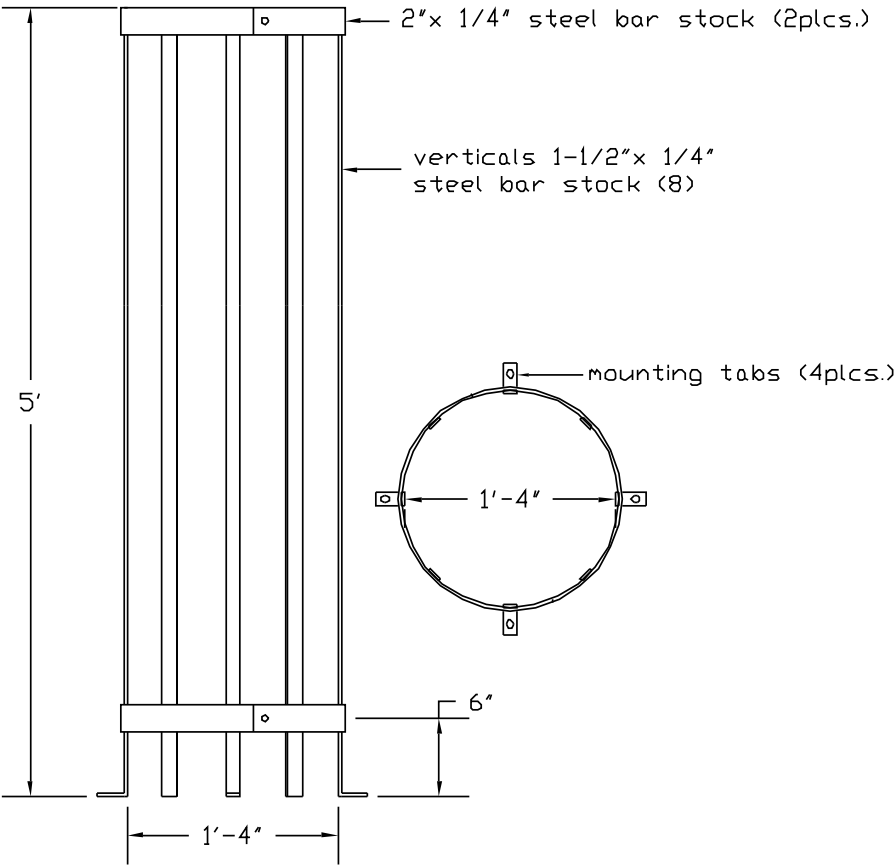
M6 TREE GUARD

BLACK POWDER
COAT FINISH

TREE GUARD
TOD PACKING HOUSE DISTRICT
City of Placentia, CA

TREE GUARD

M-6



- Jig welded from hot rolled steel.
- Guards are constructed in halves and bolt together
- 60" height and 16" tree opening standard
other dimensions available for additional cost
- Alternate attachment methods available
- All hardware provided by IRONSMITH
- Black powder coat standard finish
other finish options available

IRONSMITH TREE GUARDS
FOR LANDSCAPE ARCHITECTURE

(800) 338-4766



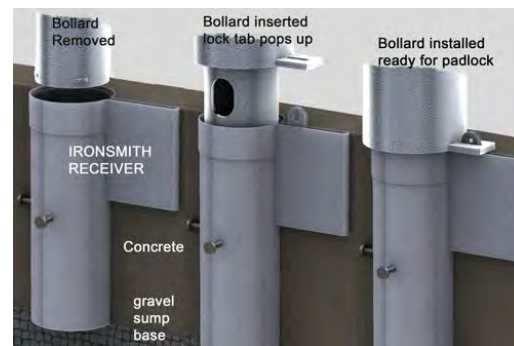


SALEM - 9023
35" HIGH / 15" BASE
FIXED OR REMOVABLE

BLACK POWDER
COAT FINISH



FIXED INSTALL



REMOVABLE INSTALL

	Receiver for removable cast bollards. 9020, 9022, 9023, 9024 GRAVEL BASE IS SUGGESTED FOR DRAINAGE. RECEIVER IS OPEN AT THE BOTTOM. CONCRETE PROFILE AND SUMP DEPTH TO BE DETERMINE BY INSTALLER BASED ON SITE CONDITIONS. LOCK TAB OPENING MUST BE KEPT CLEAR. PROTECT WITH TAPE DURING CONCRETE POUR. THE SUPPLIED CAP IS FOR TEMPORARY SHORT TERM COVERAGE ADN NOT FOR HIGH SPEED VEHICLE TRAFFIC. AN OPTIONAL LONG TERM CAP MAY BE ORDERED.
This drawing embodies a confidential proprietary design of IRONSMITH,INC. Palm Desert, Ca. All design, manufacturing ,reproduction ,use, sale, and other rights regarding the same are expressly reserved. This drawing is submitted under confidential relationship for a specific purpose and the recipient agrees by accepting this drawing not to supply or disclose any information regarding it to any unauthorized person or to incorporate any special feature peculiar to this design in other projects. The information in this drawing may be covered completely or in part by patents pending.	IRONSMITH 41-701 Corporate Way #3 Palm Desert, CA 92260 (800) 338-4766 (760) 776-5080 Fax

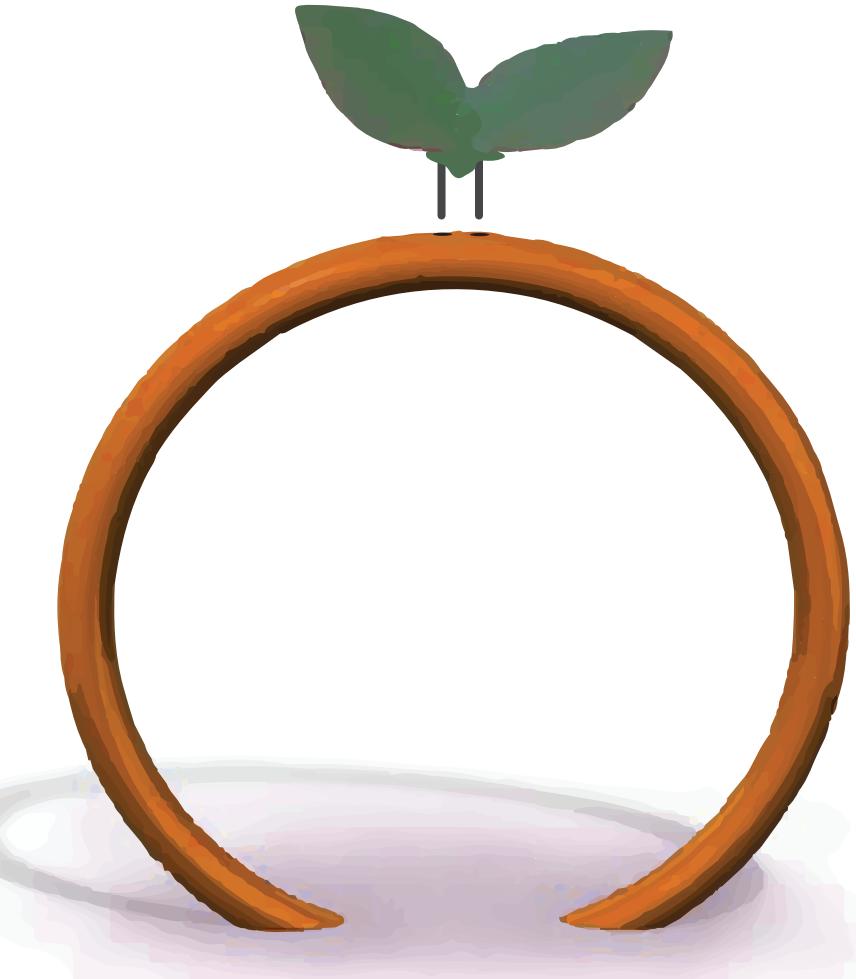


BRHS-101
CUSTOM 'ORANGE' CONCEPT
CIRCULAR BIKE RACK
60 MM (OD) TUBULAR STEEL
POWDER COATED
IN-GROUND MOUNT
RACK COLOR RAL 2000 YELLOW ORANGE

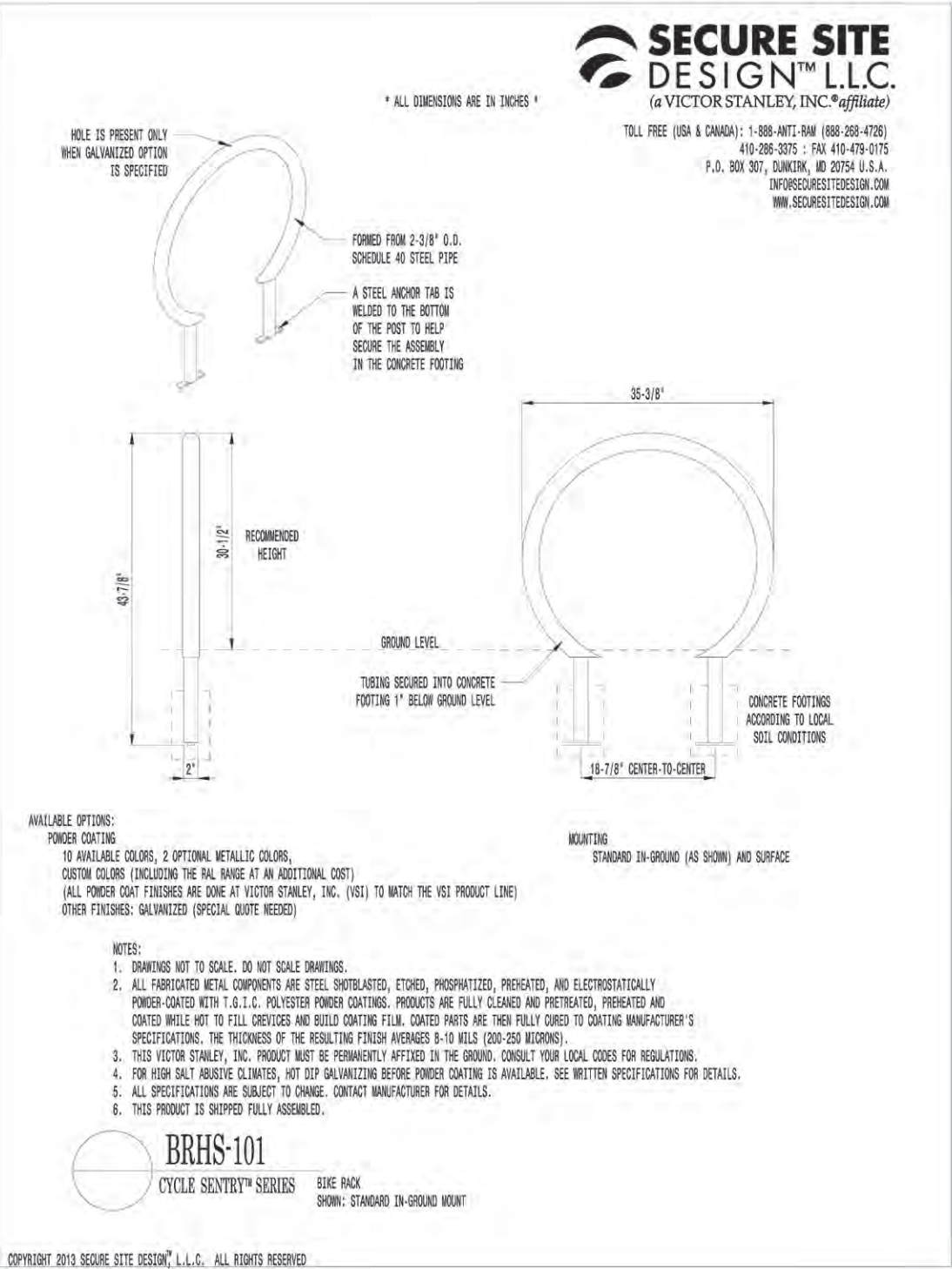
RAL 2000	237-118-014	#ED760E	Yellow orange
----------	-------------	---------	---------------

CUSTOM METAL 'LEAVES'
WITH VS CUSTOM BOLTED BRACKET
LEAVES COLOR RAL 6010 GRASS GREEN

RAL 6010	053-104-045	#35682D	Grass green
----------	-------------	---------	-------------



LEAVES & STEM
BRACKET CONNECTION
'STAR-SHAPED' QUARTER ROUND BRACKET
BOLTED ONTO FRAME



CUSTOM BIKE RACK
TOD PACKING HOUSE DISTRICT
City of Placentia, CA



CRPR-4 SEAT
RECYCLED SOLID STEEL BAR MATERIAL
IN-GROUND OR SURFACE MOUNT
COLOR BLACK



CRPR-3 SEAT
RECYCLED SOLID STEEL BAR MATERIAL
IN-GROUND OR SURFACE MOUNT
COLOR BLACK

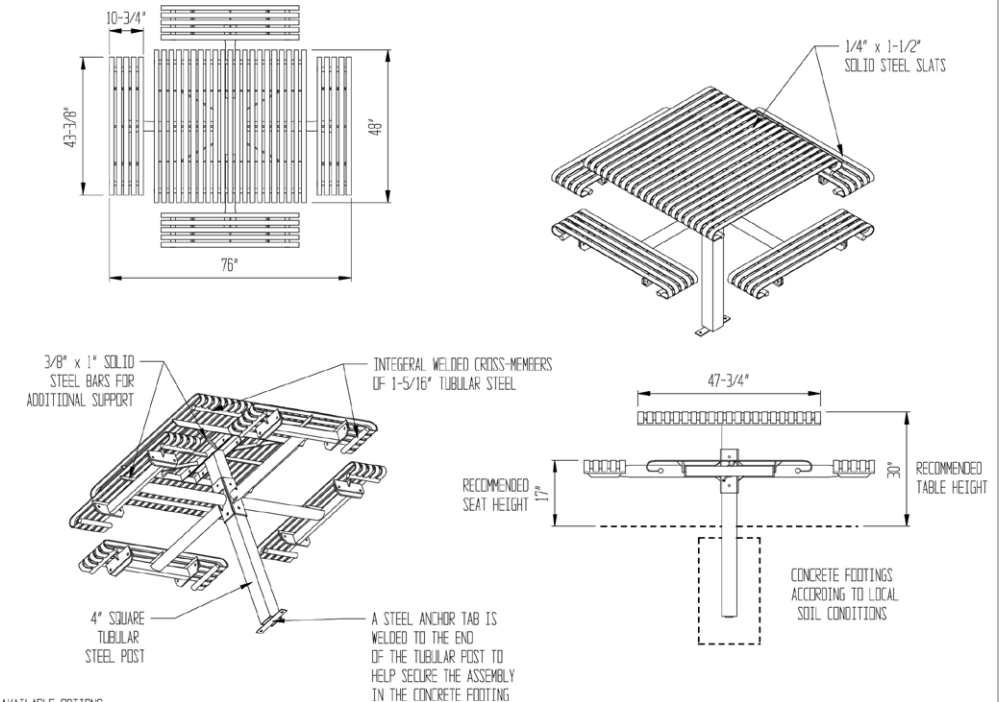
TABLES

TOD PACKING HOUSE DISTRICT

City of Placentia, CA

**VICTOR STANLEY, INC.**
Manufacturers of Quality Site Furnishings since 1962

P.O. DRAWER 330 • DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL: (301) 855-8300 • FAX: (410) 257-7579
WEB SITE: [HTTP://WWW.VICTORSTANLEY.COM](http://www.victorstanley.com)



AVAILABLE OPTIONS:
POWDER COATING:
10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)
MOUNTING:
STANDARD IN-GROUND (AS SHOWN) AND OPTIONAL SURFACE

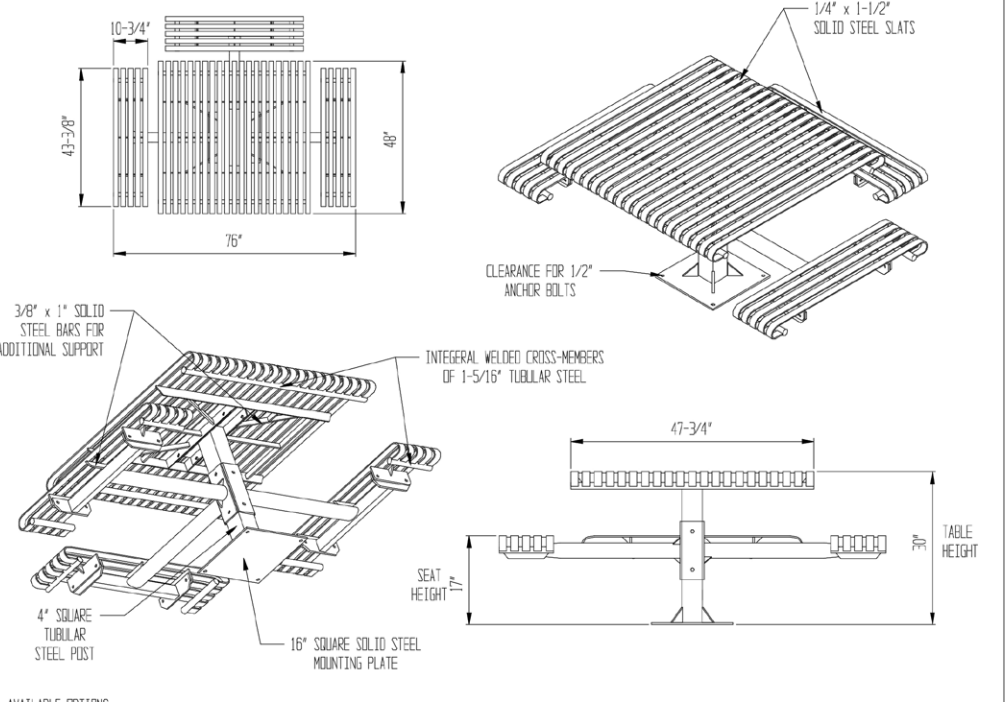
NOTES:
1. DRAWING NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED IN THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. FOR HIGH SALT ABRASIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
5. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
6. THIS PRODUCT IS SHIPPED PARTIALLY UNASSEMBLED.

**CRPR-4**
STEELSITES™ SERIES
ALL STEEL CENTER-POST TABLE
SHOWN: STANDARD 4-FOOT SQUARE TOP
STANDARD IN-GROUND MOUNT

COPYRIGHT 2007 VICTOR STANLEY, INC. ALL RIGHTS RESERVED
REV. 6/13/07 DRAWN M.C.W. 2007-298

**VICTOR STANLEY, INC.**
Manufacturers of Quality Site Furnishings since 1962

P.O. DRAWER 330 • DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL: (301) 855-8300 • FAX: (410) 257-7579
WEB SITE: [HTTP://WWW.VICTORSTANLEY.COM](http://www.victorstanley.com)



AVAILABLE OPTIONS:
POWDER COATING:
10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)
MOUNTING:
STANDARD IN-GROUND AND OPTIONAL SURFACE (AS SHOWN)

NOTES:
1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL TABLE IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.
5. FOR HIGH SALT ABRASIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
6. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
7. THIS PRODUCT IS SHIPPED PARTIALLY UNASSEMBLED.

**CRPR-3**
STEELSITES™ SERIES
ALL STEEL CENTER-POST TABLE
SHOWN: STANDARD 4-FOOT SQUARE TOP
OPTIONAL SURFACE MOUNT

COPYRIGHT 2007 VICTOR STANLEY, INC. ALL RIGHTS RESERVED
REV. 6/13/07 DRAWN M.C.W. 2007-275

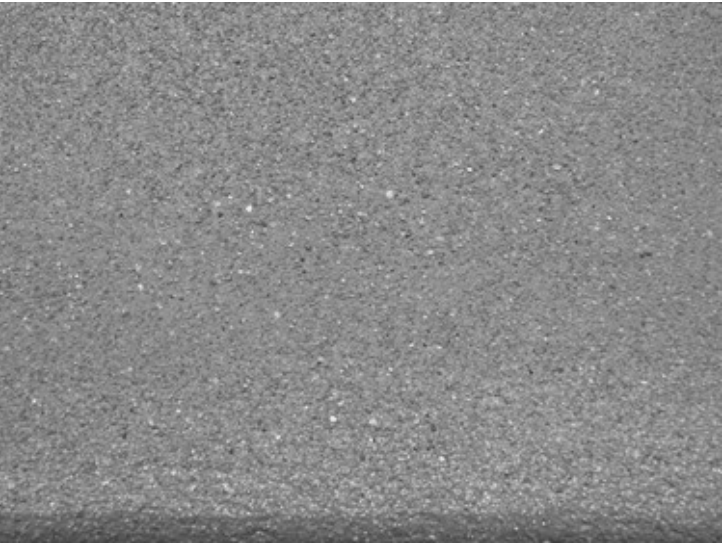
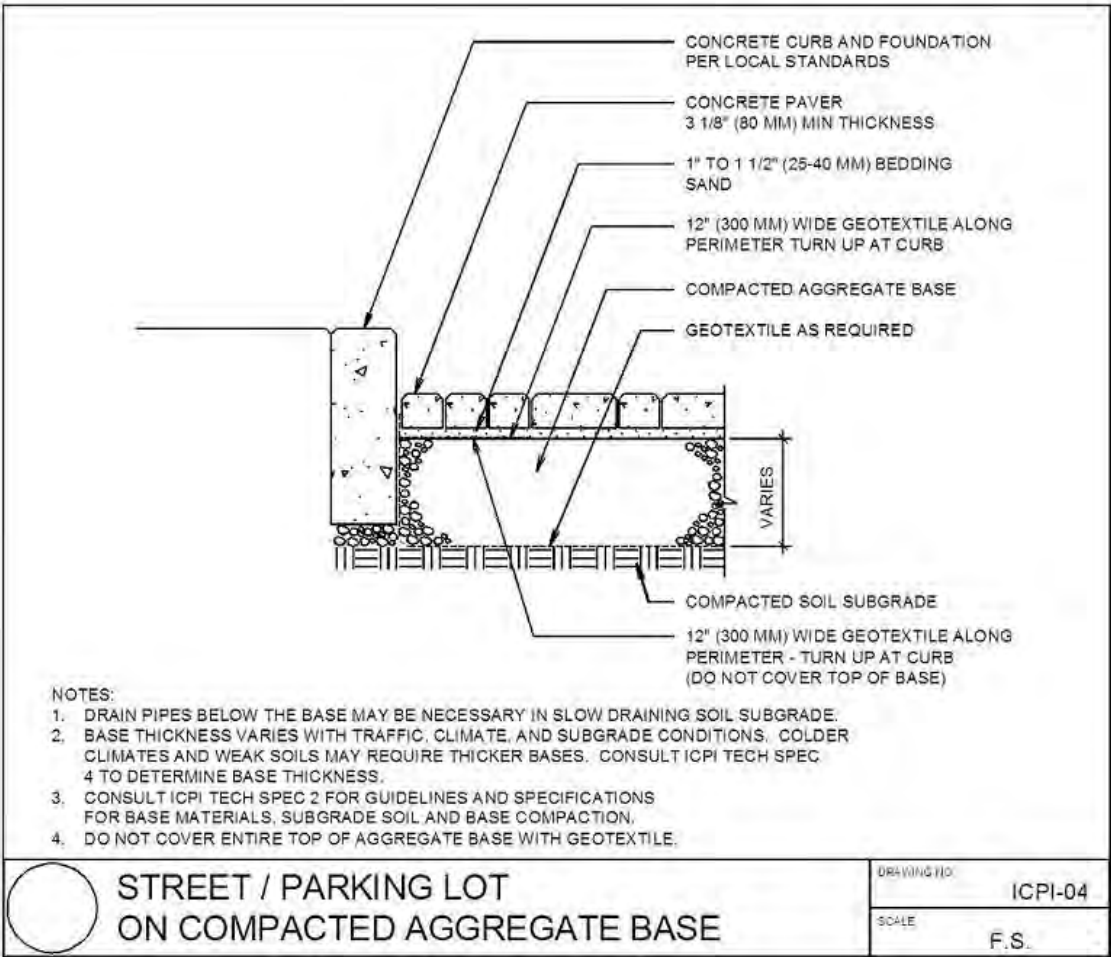


OLSEN PAVINGSTONE
ANTIQUE COBBLE (FLAT TOP) PAVERS

80 MM THICKNESS
RECTANGLES ONLY 8.25" X 5.5" SIZE
HERRINGBONE PATTERN
SET ON COMPACTED AGGREGATE BASE
NO GROUT FOR PERMEABILITY



COLOR MIX:
20% LIMESTONE
30% CHARCOAL
50% BROWN



STANDARD GREY CONCRETE PAVING
FINISH TO BE GRACE TOP CAST ACID ETCH 03

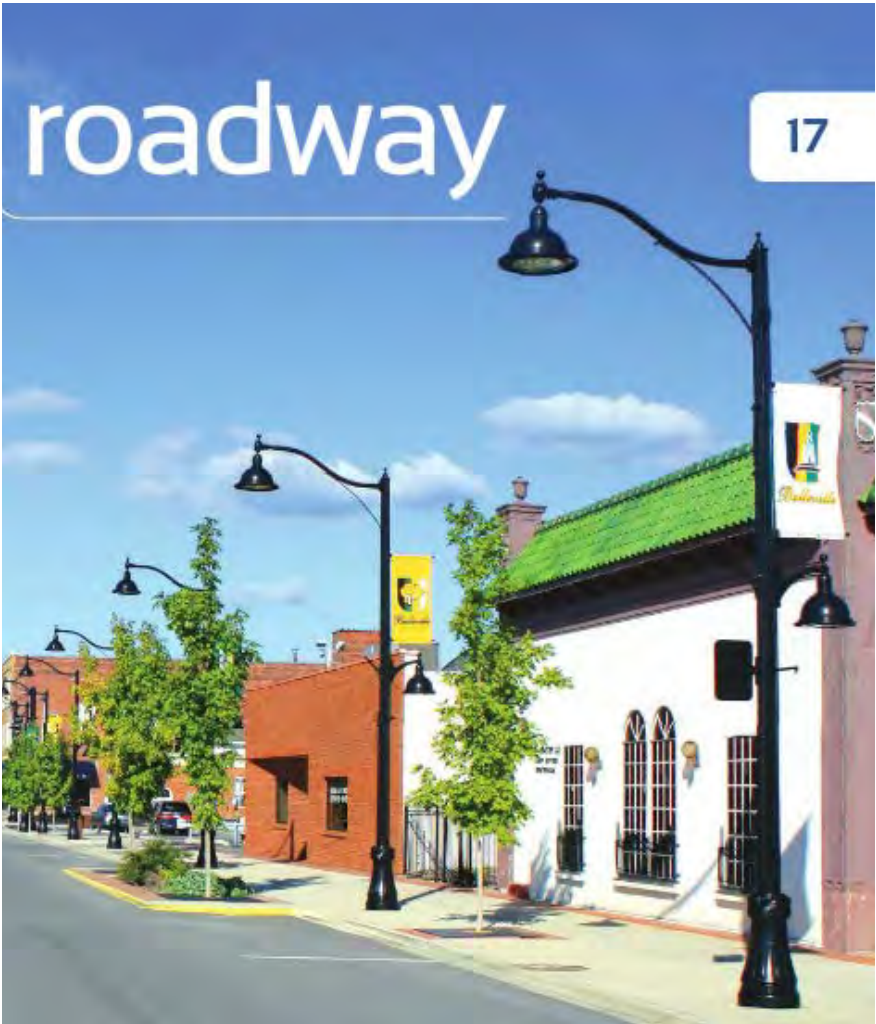
(SEE PLANS FOR SCORE LINES & EXPANSION JOINT PATTERNS)

GRACE

INTERLOCKING PERVIOUS PAVERS & CONCRETE PAVING

TOD PACKING HOUSE DISTRICT

City of Placentia, CA



OMEGA
LED LUMINAIRE FAMILY



BANNER ARMS
BUILDING SIDE OF POLE



WREATH HOOKS
BOTH SIDES OF POLE



FLAG MOUNTS
STREET SIDE OF POLE



RECEPTACLES
GFI IN BASE WITH COVER



SPEAKER HUBS
AUDIO CAPABILITY



omega®

Omega® is a timeless transitional design with a style that reminds the viewer of the past, but still takes modern flavor from arm and pole styling. Truly one of the most versatile form factors in the market, Omega® adds value to any street scene or architectural project. Its scalability ranges from ten to thirty feet, and will take design flavor from its surroundings. Applications include roadway, parking lot, and park applications, as well as commercial and residential developments.



Large
1521LED



Medium
1527LED



Small
1521LED

roadway

Sternberg Lighting has an impressive collection of roadway pole options characterized by the large scale base sizes. Roadway poles are typically taller than decorative roadway assemblies and therefore need to be more robust in construction. The height of these poles dictates that an anchor plate design be used. This non-decorative element is then dressed up with large scale two-piece base castings that clamshell around the bottom of the pole presenting a decorative appearance.

QUICK FACTS

- Roadway bases are heavy cast aluminum.
- Cast bases are painted inside and out for corrosion protection.
- Heavy wall construction provides long service life.
- Tamper resistant hardware is available for security.
- Cast bases are available in several family sizes to provide the same look throughout a project site.
- Roadway bases can accommodate a variety of pole shaft diameters and present a clean joint line between pole shaft and base casting.



Birmingham
Clamshell



Birmingham
Clamshell

POLES | 11

STREET LIGHTING

TOD PACKING HOUSE DISTRICT

City of Placentia, CA

1531LED OMEGA SERIES

LED

Optics

The luminaire shall be provided with individual, refractor type optics applied to each LED. The luminaire shall provide Type ____ (2, 3, 3R, 4 or 5) light distribution per the IESNA classifications. Testing shall be done in accordance with IESNA LM-79.

Electronic Drivers

The LED driver shall be U.L. Recognized. It shall be securely mounted inside the fixture, for optimized performance and longevity. It shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and fixture installation. It shall have overload as well as short circuit protection, and have a DC voltage output, constant current design, 50/60HZ. It shall be supplied with line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It shall be dimmable using a 0-10v signal.

For sources over 50w: The driver shall have a minimum efficiency of 90%. The driver shall be rated at full load with THD<20% and a power factor of greater than 0.90. The driver shall contain over-heat protection which reduces output to less than half rating if the case temperature reaches 85°C.

For sources under 50w: The driver shall have a minimum efficiency of 88%.

Photocontrols

Button Style: On a single assembly the photo-control shall be mounted on the fixture and pre-wired to driver. On multiple head assembly's the photocontrol shall be mounted in the pole shaft on an access plate. The electronic button type photocontrol is instant on with a 5-10 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt and warranted for 6 years.

Twist-Lock Style: The photocontrol shall be mounted externally on the fixture and pre-wired to driver. The twist lock type photocontrol is instant on with a 3-6 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt and warranted for 6 years.

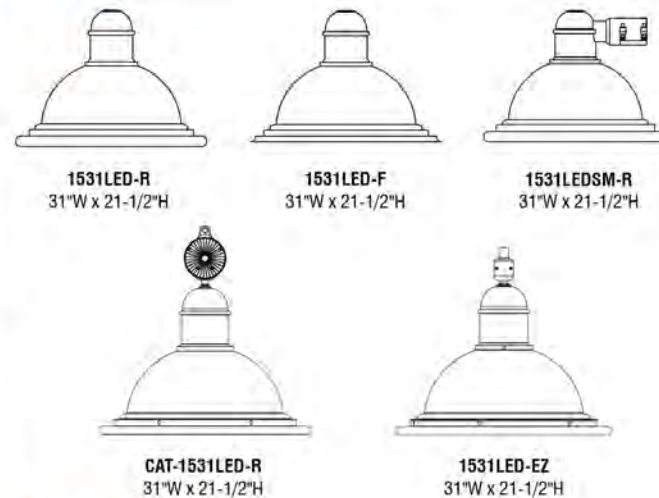
Warranty

Seven-year limited warranty. See product and finish warranty guide for details.

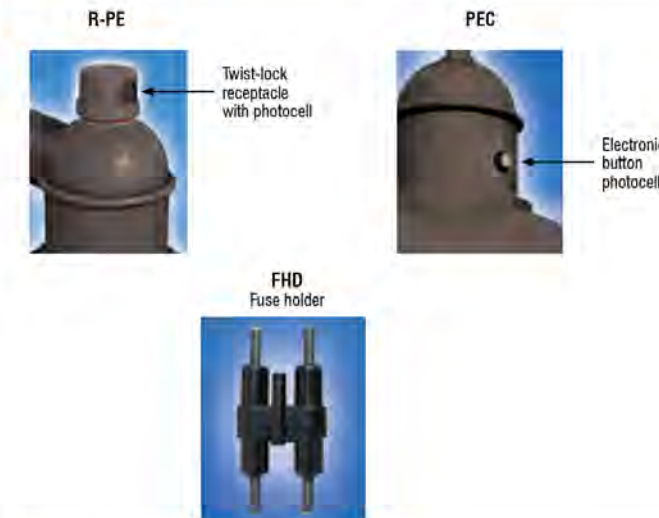
Finish

Refer to website for details.

Fixtures



Options



800-821-3376
555 Lawrence Ave., Roselle, IL 60172
info@sternberglighting.com
www.sternberglighting.com

2/17 STERNBERG LIGHTING. ALL RIGHTS RESERVED. PRINTED IN THE USA.



LED Ornamental Bollards

12-6534

7701LED BIRMINGHAM LIGHTED BOLLARD SPECIFICATIONS

GENERAL

The Model 7701LED decorative lighted bollard shall be cast aluminum, one-piece construction. The 16" diameter cast aluminum base shall be constructed with a 7 1/4" diameter straight fluted cast aluminum shaft. The Model shall be Sternberg Lighting #7701LED lighted bollard or #7701LED-QR quick release lighted bollard. The bollard shall be U.L. or E.T.L. listed in U.S. and Canada.*

CONSTRUCTION

The base shall be designed with a tall and smoothly curved pedestal bottom section and transition to a tall twelve flute vertical base section and be made of heavy wall, alloy cast aluminum. It shall have a 1" thick floor cast as an integral part of the base. The bollard cap shall be welded in place. The overall height of the bollard shall be 51".

ELECTRICAL / LED

The optical assembly shall be constructed of twelve (12) fluted openings with a white acrylic lens. The LED light source shall have an IP65 rated assembly. The assembly shall consist of highly efficient, four (4) [optional three (3)] sided extruded aluminum heat sink, four (4) [optional three (3)] LED boards with 6 each high brightness LEDs and a sealed acrylic tube. The bollard shall be supplied with electrical surge protection in accord with IEEE/ANSI C62.41.2 and shall be U.L. or E.T.L. Listed in U.S. and Canada. The LED lighted bollard shall have an L70 expected life of 70,000 hours with the LED life ratings determined in accordance with IESNA LM-80. The electronic LED driver shall be a U.L. Recognized, constant current design with THD<20%.

QUICK RELEASE MOUNTING (Optional)

The Model 7701LED-QR shall have a quick release option which allows quick removal of the bollard for convenience or emergency access. The burial portion shall be made of aluminum extrusion and shall have a keyway and flexible connection system for securing to bollard. The bollard shall have a mated extension and anti-rotation key and padlock slot. The quick release system shall allow for a flush pavement installation after temporary bollard removal.

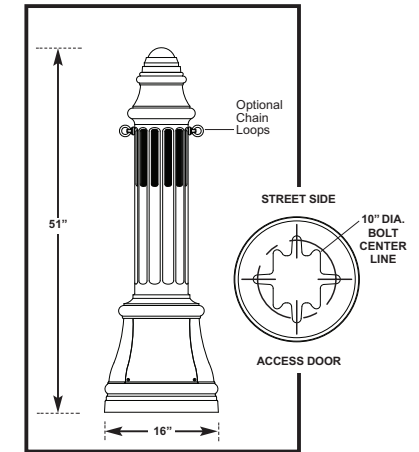
FINISH

Prior to coating, each assembly shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse osmosis water rinsing, and non-chrome sealing to ensure corrosion resistance and excellent adhesion for the finish coating. The finish coating shall be electrostatically applied semi-gloss, super durable polyester powder baked at 400 degrees for a durable and superior, color retentive finish. Our optional antique Verde Green finish and Swedish Iron finish are hand brushed using a 3-step process. The total assembly shall be wrapped in shockproof wrapping or fully enclosed in corrugated cartons.

INSTALLATION

Four, hot dipped galvanized "L" type anchor bolts shall be provided with the post for non-quick release bollard anchorage. Quick release anchorage requires no anchor bolts. A door shall be provided for wiring and anchor bolt access. It shall be secured with tamper-proof, stainless steel hardware. Bollard will be provided with a grounding stud mounted on the base floor opposite the access door.

WARRANTY Seven (7) year limited warranty. See product and finish warranty guide for details.

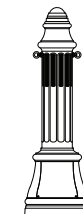


See installation template for exact door position.

BUILDING A PART NUMBER

PART NUMBER SELECTIONS

BOLLARD MODEL	OPTIONAL CHAIN LOOP	LIGHT SOURCE	DRIVER	OPTIONS	FINISH	MODELS	LIGHT SOURCES	STANDARD FINISHES*	RT Rust
7701LED	CL2	3S45TLCA	ML	FHD	VG	• 7701LED • 7701LED-QR	• 4S60TLCA 30W 6000K Type V • 4S45TLCA 30W 4500K Type V • 4S35TLCA 30W 3500K Type V • 3S60TLCA 23W 6000K Type V • 3S45TLCA 23W 4500K Type V • 3S35TLCA 23W 3500K Type V	• BKT Black Textured • WHT White Textured • PGT Park Green Textured • ABZT Architectural Medium Bronze Textured • DBT Dark Bronze Textured	• WBR Weathered Brown • CD Cedar • WBK Weathered Black • TT Two Tone
						DRIVERS • ML-120-277V • MDL - Dimming 120 - 277V		*Smooth Finishes are available upon request	
						OPTIONAL CHAIN LOOP • CL1 Chain Loop • CL2 Chain Loops 180°		CUSTOM FINISHES • OI Old Iron	
								OPTIONS • PEC1 ¹ Photocell-Bimetal 120 Volt • PEC2 ¹ Photocell-Bimetal 208-277 Volt • PEC1-E ¹ Photocell-Electronic 120 Volt • PEC2-E ¹ Photocell-Electronic 208-277 Volt • LP Low Power / Reduced Output 11W (3S TLCA only)	• FHD Dual Fuses and Holder • GFI Ground Fault Interrupter Duplex Outlet ¹
						* NOTES ¹ U.L. listed components only. Bollard is not U.L. or E.T.L. listed with a photocell.			¹ GFI not available with QR option



555 Lawrence Ave. Roselle, IL 60172 • 847-588-3400 • Fax 847-588-3440
www.sternberglighting.com Email: info@sternberglighting.com

STREET LIGHTING
TOD PACKING HOUSE DISTRICT
City of Placentia, CA





REPRESENTATIVE ABOVE INSTALLATION AT PECK ROAD & VALLEY BLVD

TRAFFIC SIGNAL ELEMENTS TO INCLUDE:

POLES
MAST ARMS
PUSH BUTTON
SIGN
PEDESTRIAN COUNT DOWN MODULE
LUMINAIRE
COLOR TO BE BLACK

REFLECTORIZED STREET NAME SIGN



valmont 
STRUCTURES

ROUND TAPERED STEEL
Fluted
FL30

Job Name: _____		Client Name: _____	
Job Location - City: _____	State: _____	Created By: _____	Date: _____
Product: FL30 _____	Quote: _____	Customer Approval: _____	Date: _____

SPECIFICATIONS

Pole - The pole shaft conforms to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.14 in/ft.

Fluting Process - The tapered shafts are cold rolled over a precision hardened steel mandrel to form the desired flute shape. The flutes are uniform and equally spaced throughout the process. The termination of the flutes is no greater than 1.50" radii transition into the round section of the shaft. The results of this fluting process are flutes with architecturally pleasing radiused terminations and crisp uniform flutes.

Linear Flute Layout - Flutes start and stop to ensure decorative nut covers and anchor base connection fits a smooth round diameter. Flute start and stop locations should be specified.

Finial - A decorative spear finial with hardware is provided.

Luminaire Arm - Luminaire arms are made from 2" schedule 40 pipe (2.38" OD) with a minimum yield strength of 36,000 psi. Double luminaire arms are oriented 180° apart. For other orientations and scroll options please consult factory.

Luminaire Arm Attachment - Connection allows arm to be erected and held in place by gravity and secured by a single bolt.

Handhole - A covered handhole and grounding provision with hardware is provided.

Nut Covers - Decorative anchor bolt nut covers with hardware are provided.

Base Cover - Optional decorative base covers available as special order.

Anchor Base - The anchor base (base plate) conforms to ASTM A36.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized or zinc-plated carbon steel or stainless steel.

Hardware - All structural fasteners are galvanized high strength carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

Finish - Standard finishes are galvanized, prime painted or any of Valmont's V-PRO™ Protection Systems. Additional finish options available upon request.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.

VALMONT INDUSTRIES, INC.

7002 N. 28TH STREET, PO BOX 358 - VALLEY, NE 68064 USA

800.825.6668

VALMONTSTRUCTURES.COM

valmont 
STRUCTURES

WASHINGTON
Fluted Tapered/Non-Tapered
Aluminum

Posts - Aluminum

Washington

Fluted Tapered / Non-Tapered

Job Name: _____	Client Name: _____
Job Location - City: _____ State: _____	Created By: _____ Date: _____
Product: WA3TASE -- _____	Customer Approval: _____ Date: _____
Quote: _____	

SPECIFICATIONS

Pole - The pole shaft is either spun or extruded from 6063 alloy aluminum.

Pole Top - A pole top plate and tenon are provided for top mount luminaire and/or bracket. A removable finial is available for poles receiving drilling patterns for side-mount luminaire arm assemblies.

Structural Base - The structural base is cast from 356 alloy aluminum and provided with a 4.00" wide X 5.63" tall access door. A grounding provision with hardware is provided. The pole is inserted and welded into the structural base casting. The completed assembly is heat-treated to a T6 temper after the structural welding is completed.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

Finish - The standard finish for the pole assembly and components is polyester powder applied coating in accordance with Valmont's Specifications. Additional finish options available upon request.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.

VALMONT INDUSTRIES, INC.

7002 N. 288TH STREET, PO BOX 358 - VALLEY, NE 68064 USA

800.825.6668

VALMONTSTRUCTURES.COM

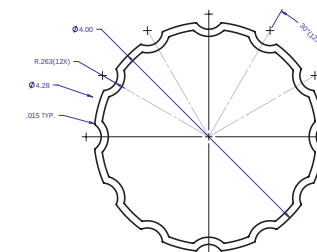


14 FT
13 FT
12 FT
11 FT
10 FT
9 FT
8 FT
7 FT
6 FT
5 FT
4 FT
3 FT
2 FT
1 FT



Part Name: Acorn Finial

Identification Number: FN-0103
Height: 6½"
Width: 4¼"
Application: Fits 3" diameter post
Finish: Powder coat finish (standard gloss black)
Hardware Requirements: 3) 1/4-20 x 1/4" stainless set screws



4" DIAMETER FLUTED

Specifications

Material:
Extruded Aluminum

Alloy:
6063

Tolerance:
+/-0.020"

Wall Thickness:
0.125" +/-0.010"

Symmetry:
Shape is symmetrical about center lines

Estimated Weight:
3" Diameter: 1.34 lbs/ft
4" Diameter: 1.91 lbs/ft

Finish:
Black Powder Coat (Custom and Mill Finish Available)

Warranty:
1 Year Limited Manufacturer Warranty From Date of Purchase

Part Name: Classic Base

Identification Number: BS-04D
Height: 35"
Width/Footprint: 11"
Application: Fits 4" diameter post
Weight: - lb.
Finish: Powder coat finish (standard gloss black)
Hardware Requirements: 3) 1/4-20 x 1/4" stainless set screws



4" Fluted

COLOR

POLES, BRACKETS, SCROLLS, ARMS, AND BASES
TO BE POWDER COATED GLOSS BLACK

STREET SIGNS
TOD PACKING HOUSE DISTRICT
City of Placentia, CA





PRIMARY CANOPY TREE

Ulmus parvifolia ‘Drake’
Drake Chinese Elm

35’-45’ Height
35’-50’ Spread
Moderate Water Use



MEDIUM EVERGREEN TREE

Geijera parviflora
Australian Willow

30’ Height
20’ Spread
Low Water Use

TREE PALETTE NOTES

These trees have been selected for their ability to meet the criteria of the TOD Packing House District Public Realm Guidelines including contributing to the creation of a walkable pedestrian environments as well as to the continuity and project identity within the district.

Consideration was also given for the overall long-term performance of the tree species with special regard to low maintenance and commercial trade availability. The trees have similar, compatible, water use requirements as the shrubs and groundcover palette and will compliment each other with respect to hydrozone compatibility and appearance.

Where possible, existing mature trees (deemed healthy and safe by the City’s arborists) should remain and be protected.

Location of trees should serve to establish and maintain a consistent and well-coordinated planting scheme within the district. A formal planting scheme, using a single, regularly spaced dominant species is appropriate for the district. Accent species should be used to highlight intersections, special features, or interspersed with the primary species.

Refer to site plans and enlargements for tree locations.

*Water use information was determined by consulting UC Davis’ Water Use Classification of Landscape Species (WUCOLS IV)
<http://ucanr.edu/sites/WUCOLS/>

SHRUBS, GROUNDCOVERS & ACCENTS

The plant palette was developed using tools such as UC Davis’ Water Use Classification of Landscape Species (*WUCOLS IV) <http://ucanr.edu/sites/WUCOLS/> to select plants that have low or very low water use for the City of Placentia bioregion and are durable, longer-lived, and require low levels of maintenance. For example, Callistemon, Hesperaloe, Lantana, Myoporum, and Rosmarinus all have low or very low water use and are evergreen, durable, commercially available, low-maintenance shrub species which are appropriate for street medians and right-of-ways. Alternatively, Agave, Dasylirion, Sedum, Senecio, and Yucca hybrids are low and very low water use succulents and accents which can create bold striking landscapes when paired with cobble and rock blankets.

Efficient and minimal water use for public landscapes is now a State-wide requirement due to multiple years of low annual rainfall levels in California. Successful landscape solutions are those which combine low and very low water use plants with non-living landscape materials like stabilized decomposed granite, rock and cobble blanket (both loose and stabilized with concrete), wood mulch, concrete pavers, permeable concrete, and other innovative sustainable materials.

This palette was specifically selected for medians and right-of-ways to create water-efficient landscape solutions which provide visual interest for both pedestrian and motorists.

*Water use information was determined by consulting UC Davis’ Water Use Classification of Landscape Species (WUCOLS IV) <http://ucanr.edu/sites/WUCOLS/>

Botanical Name	Common Name	Water Use*	Spacing
SHRUBS			
Bougainvillea ‘Rosenka’	Dwarf Bougainvillea	Low	36”
Callistemon ‘Little John’	Dwarf Bottlebrush	Low	24”
Leucophyllum frutescens ‘Green Cloud’	Green Cloud Texas Ranger	Low	30”
Nandina domestica ‘Nana’	Dwarf Heavenly Bamboo	Low	12”
Punica granatum ‘Nana’	Dwarf Pomegranate	Low	24”
Rhaphiolepis indica ‘Ballerina’	Dwarf Indian Hawthorne	Low	30”
Teucrium chamaedrys	Germander	Low	18”
Westringia frutecosa	Coast Rosemary	Low	36”
Xylosma congestum	Shiny Xylosma	Low	48”
GROUNDCOVERS			
Arctostaphylos ‘Pacific Mist’	Pacific Mist Manzanita	Low	36”
Carissa macrocarpa ‘Tomlinson’	Dwarf Natal Plum	Low	36”
Ceanothus ‘Diamond Heights’	Diamond Heights Ceanothus	Low	30”
Cotoneaster dammeri ‘Lowfast’	Bearberry Cotoneaster	Low	48”
Gazania rigens ‘Sun Gold’	Sun Gold Gazania	Low	18”
Myoporum parvifolium	Myoporum	Low	48”
Rosmarinus o. ‘Huntington Carpet’	Rosemary	Low	42”
SUCCULENT ACCENTS			
Agave desmettiana	Variegated Smooth Agave	Very Low	42”
Agave amer. v. medio-picta ‘Alba’	White-Striped Century Plant	Very Low	48”
Agave ‘Blue Glow’	Blue Glow Agave	Very Low	42”
Aloe ‘Blue Elf’	Blue Elf Aloe	Low	12”
Crassula argentea ‘Crosby’s Compact’	Compact Jade	Low	30”
Dasylirion wheeleri	Spoon Yucca	Very Low	30”
Hesperaloe parviflora	Red/Yellow Yucca	Very Low	18”
Portulacaria afra ‘Prostrate Form’	Dwarf Elephant’s Food	Very Low	36”
Sedum ‘Verde Yellow’	Verde Yellow Sedum	Low	24”
Sedum adolphii ‘Firestorm’	Golden Sedum	Low	18”
Senecio mandraliscae	Blue Dicks	Low	18”
Senecio serpens	Blue Chalksticks	Low	12”
Yucca filamentosa ‘Bright Star’	Adam’s Needle	Very Low	24”



SHRUBS



Bougainvillea 'Rosenka'
Dwarf Bougainvillea



Callistemon 'Little John'
Dwarf Bottlebrush



Leucophyllum frutescens
Texas Ranger



Nandina domestica 'Nana'
Dwarf Heavenly Bamboo



Punica granatum 'Nana'
Dwarf Pomegranate



Raphiolepis i. 'Ballerina'
Dwarf Indian Hawthorne



Teucrium chamaedrys
Germander



Westringia frutescens
Coast Rosemary



Xylosma congestum
Shiny Xylosma

GROUNDCOVERS



Arctostaphylos 'Pacific Mist'
Pacific Mist Manzanita



Ceanothus 'Diamond Heights'
Diamond Heights Lilac



Gazania lin. 'Colorado Gold'
Sun Gold Gazania



Myoporum parvifolium
Myoporum



Rosmarinus off. 'Hunt. Carpet'
Trailing Rosemary

SUCCULENTS



Agave desmettiana
Variegated Smooth Agave



Aloe rudikoppe 'Little Gem'
Little Gem Aloe



Dasylirion wheeleri
Spoon Yucca



Sedum adolphii 'Firestorm'
Golden Sedum



Senecio serpens
Punk Pickle