



Architectural Review
and Historic Preservation Board
Agenda Report

Meeting Date 09/16/15

DATE: September 4, 2015

TO: Architectural Review and Historic Preservation Board

FROM: Mike Sawley, Associate Planner, (879-6812, mike.sawley@chicoca.gov)
Community Development Department

RE: Dutch Bros. Downtown – 196 Humboldt Avenue; APN 004-425-003

File : AR 15-17

RECOMMENDATION

Staff recommends that the Architectural Review and Historic Preservation Board adopt the required findings contained in the agenda report and approve Architectural Review 15-17 (Dutch Bros. Downtown), subject to the recommended conditions.

Proposed Motion

I move that the Architectural Review and Historic Preservation Board adopt the required findings contained in the agenda report and approve Architectural Review 15-17 (Dutch Bros. Downtown), subject to the recommended conditions.

BACKGROUND

The applicant proposes to construct a drive-through coffee kiosk on a 0.4-acre site located on Wall Street, between 9th Street and Humboldt Avenue (see **Attachment A**, Location Map and **Attachment B**, Architect's Project Description). The site is designated Commercial Mixed-Use by the General Plan and zoned DS-L-COS (Downtown South with Landmark and Corridor Opportunity Site overlays). In April, the City Council approved Use Permit 14-19, authorizing 24-hour drive through sales at the site.

The proposed site plan includes a drive-through coffee kiosk building with drive-up ordering windows on either side, and a walk-up window in front (see **Attachments C and D**, Site Plans, also provided in large format). Full vehicle access would be from Wall Street, with an additional exit drive onto Humboldt Avenue. Stacking for approximately 10 vehicles is provided in advance of the service windows, a minimum of six is required.

Pedestrian access to the kiosk is provided from all three street frontages, with bike racks at each location. Covered and uncovered areas for outdoor seating would be located internally to the site, as would two customer parking spaces. Two "employee only" off-street spaces are also provided near the exit on Humboldt Avenue. Additional on-street parking would be created by striping angled spaces on Wall Street and eliminating old driveways as part of the site improvements. Other site improvements include several segments of 3-foot wire screen fence, a monument sign, and a trash enclosure.

The onsite maneuvering areas would be ringed with landscaping, including many trees, shrubs, and other groundcover (see **Attachment E**, Landscape Plans). Star jasmine would be staked along the wire screen fence to create a solid vegetative barrier over time. New street trees with iron surface grates would also be installed on street frontages.

The proposed kiosk building would be approximately 640 square feet, and 18 feet, 9 inches in height (see **Attachment F**, Elevations). The building's exterior would be gray stucco above a black brick wainscot, with blue and white trim elements (see **Attachment G**, Colors and Materials. Also, see "Exterior Materials" listing on the elevation drawings). Blue metal awnings would extend outward approximately four feet over the ordering windows, each with a pair of support rods anchored to the wall above. Parapet walls would be approximately seven feet in height, effectively screening the roof-mounted condenser units.

Wall-mounted cabinet signs are proposed on three elevations, including a windmill sign on the east elevation facing Wall Street, and a monument sign is proposed near the corner of E. 9th Street and Wall Street. Total proposed signage area would be 117 square feet (up to 250 square feet is permissible). The trash enclosure would be comprised of CMU walls with gray stucco finish matching the building's field color and solid metal doors painted blue to match the building's trim color.

Five light standards are proposed, each with a finished height of 12 feet (see **Attachment H**, Photometric Plan). Additional exterior lights are proposed within the metal canopies. Details for the pole-mounted luminaires are provided on **Attachment I**.

DISCUSSION

The existing site is entirely paved, and does not meet a variety of development standards (e.g. landscaping, lighting, signage, drainage, parking design, etc.). The proposed design meets all applicable standards under CMC Section 19.76.150 (Drive-in and drive-through facilities). Drive-through aisles provide adequate space for maneuvering, pedestrian crossings are provided from all three street frontages, and the design exceeds the minimum vehicle queuing requirement of six customers.

The proposed building meets all setbacks and site coverage requirements. With regard to height limits, CMC 19.44.030 (Table 4-7), requires a "*minimum height of two stories for new construction*" in the DS district. Staff has interpreted this to mean that new structures in this district must have a minimum vertical height that is consistent with two-story construction, as opposed to the height limit mandating two interior levels within the structure. The proposed building height of 18 feet, nine inches, is consistent with the minimum height that can be achieved for a two-story commercial building of similar area, using conventional construction.

General Plan

The proposed drive-through would be consistent with several General Plan policies, including those that promote revitalization of sites in the South Downtown in a manner that would enhance surveillance and safety, and contribute to a more unified and vibrant Downtown (DT-2.5, DT-3.4, DT-4.3 and CD-3.4.3). The proposal implements General Plan Action DT-4.3.1 by providing a design that will attract and support pedestrian activity in addition to accommodating motorists.

The proposed site design would not implement policies that encourage larger, multi-story buildings that reinforce the desirable architectural scale, style and setback patterns in the South Downtown (DT-4.2, DT-4.2.1 and CD-5.1). Although these policies encourage more-intense development, the General Plan also advocates transitioning development to lower intensities on the edges of Downtown to minimize conflicts in areas adjacent to existing

residential neighborhoods (DT-4.2.2). The proposed project balances these policies by redeveloping the site at approximately the same intensity in terms of building size as currently exists, while meeting many code requirements pertaining to landscaping, parking, and lighting that are not met by the existing used car lot.

The proposed development would also convert parallel on-street parking spaces to diagonal spaces on Wall Street, consistent with Action DT-7.2.2. Overall, the project would promote multi-modal circulation patterns by accommodating motorists, pedestrians, and bicyclists, consistent with policies DT-5.1 and CD-3.2.

Design Guidelines

The project eschews Design Guidelines (DGs) that encourage large-scale buildings along street frontages in the Downtown area (DGs 1.1.13, 1.1.15, 1.3.11, 1.3.93, and 1.3.96), in favor of other DGs that justify larger setbacks along busy streets and scaling down development where commercial uses transition into adjoining residential neighborhoods (DGs 1.1.15, 1.2.11 and 1.2.13). The design is consistent with DGs that encourage proper screening of parking areas and utilities (DG 1.3.78, 2.1.25 and 2.1.36), as conditions would require painting conspicuous utility cabinets to ensure that they do not detract from the building's appearance. See Architect's Project Description, **Attachment B**, for additional DG analysis.

Several DGs promote clearly designated pedestrian routes through parking lots and maneuvering areas (2.1.23, 2.1.33 and 2.1.34). To increase safety and achieve a strong pedestrian orientation a condition is recommended that would require enhanced pedestrian crossings through use of raised crossings, textured surfaces, and/or colored pavement, as well as a pole-mounted pedestrian crossing signs.

With regard to wall signage in the Downtown area, DG 1.3.54 provides the following direction:

Prioritize individually mounted letters and symbols that are indirectly or individually illuminated rather than plastic-faced, backlit, metal cabinet signs. Prioritize light colored letters and graphic details when internally illuminated signs are proposed, over dark letters on light colored fields.

In response to this guidance a condition is recommended to replace the cabinet-style wall signs with wall signage comprised of individually mounted letters and symbols that are either indirectly illuminated or raised and backlit for a halo effect.

RECOMMENDED DISCUSSION ITEMS

Cabinet Wall Signs: Given the Design Guidelines concerning cabinet signs in the Downtown area and the applicant's desire to use cabinet signs on three elevations of the building, discuss if it would be appropriate to modify recommended condition #5 to provide for a combination of individually mounted channel letters and smaller cabinet signs to comprise wall signage for the project. For instance, the Board may opt to modify the condition to require the "Dutch Bros." portion of each wall sign to be comprised of individually mounted, internally illuminated channel letters while allowing the windmill icon and "coffee" elements to be internally illuminated cabinets. See **Attachment J** for an example of this type of mixed signage from a different city.

REQUIRED FINDINGS FOR APPROVAL

Environmental Review

The project is exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15303 (New Construction of Small Structures). Subsection 15303(c) of the exemption provides for up to four commercial buildings not exceeding 10,000 square feet.

Architectural Review

According to the Chico Municipal Code Section 19.18.060, the Architectural Review and Historic Preservation Board shall determine whether or not a project adequately meets adopted City standards and design guidelines, based upon the following findings:

1. *The proposed development is consistent with the General Plan, any applicable specific plan, and any applicable neighborhood or area plans.*

The proposed drive-through coffee kiosk effectively incorporates multi-modal access and is consistent with the General Plan in that it would promote revitalization of the site and contribute to a more unified and vibrant Downtown (DT-2.5, DT-3.4, DT-4.3 and CD-3.4.3). The design promotes pedestrian activity, implementing Action DT-4.3.1, by providing a walk-up ordering window in addition to drive up windows, as well as other features necessary to provide compatible multi-modal access. Providing multi-modal access is also consistent with General Plan policies DT-5.1 and CD-3.2. The kiosk will not be a large building, as certain policies encourage, but the project will redevelop the site at approximately the same intensity in terms of building size as currently exists while meeting many code requirements pertaining to landscaping, parking, and lighting that are not currently met at the site. The proposed development will also convert parallel on-street parking spaces to diagonal spaces on Wall Street, consistent with Action DT-7.2.2. The site is not located within the bounds of a Neighborhood Plan or area plan.

2. *The proposed development, including the character, scale, and quality of design are consistent with the purpose/intent of this chapter and any adopted design guidelines.*

The project will promote orderly development and enhance the visual environment by replacing a used car lot with a development that attracts more customer activity and would add substantial landscape improvements where virtually none currently exist. Although challenged by certain Design Guidelines (DGs), the proposal is consistent with DGs that call for larger setbacks along busy streets, scaling down development where transitioning into residential areas, and proper screening of parking areas and utilities (DGs 1.1.15, 1.2.11, 1.2.13, 1.3.78, 2.1.25 and 2.1.36). As conditioned, the project will adequately respond to DGs that encourage clearly designated pedestrian routes through maneuvering areas and avoiding the overuse of cabinet signs (2.1.23, 2.1.33, 2.1.34, and 1.3.54).

3. *The architectural design of structures, including all elevations, materials and colors are visually compatible with surrounding development. Design elements, including screening of equipment, exterior lighting, signs, and awnings, have been incorporated into the project to further ensure its compatibility with the character and uses of adjacent development.*

The drive-through coffee kiosk use will be of a scale and intensity which is compatible with other retail and service uses in the Downtown area, as well as residential uses located east of the site. Area lighting will be directed downward to minimize effects to the nearby

residential neighborhood and night sky. Conditions would require project signage to minimize light spillage and glare onto nearby properties. Conditions would also ensure that the appearance of exterior equipment will be properly screened from view.

4. *The location and configuration of structures are compatible with their sites and with surrounding sites and structures, and do not unnecessarily block views from other structures or dominate their surroundings.*

The proposed building will be compatible with the site and surrounding area in that it is not large, would be surrounded by other onsite improvements including landscaping, and would not unnecessarily block views or dominate its surroundings.

5. *The general landscape design, including the color, location, size, texture, type, and coverage of plant materials, and provisions for irrigation and maintenance, and protection of landscape elements, have been considered to ensure visual relief, to complement structures, and to provide an attractive environment.*

The kiosk building and drive-through lanes will be ringed with landscape improvements that will provide substantial visual relief and provide an unusually high amount of greenery given its Downtown location. A structural screen wall with creeping vines will serve to screen the drive-through lanes at multiple locations in the near term, as other shrubs and perennials mature. Large trees along the southern and western borders will grow to provide valuable shade during hot months in the more-distant future.

RECOMMENDED CONDITIONS OF APPROVAL

1. All approved building plans and permits shall note on the cover sheet that the project shall comply with AR 15-17 (Dutch Bros Downtown). The approval documents for this project are date stamped Sep 2, 2015.
2. All wall-mounted utilities and roof or wall penetrations, including vent stacks, utility boxes, exhaust vents, gas meters and similar equipment, shall be screened by appropriate materials and colors. Adequate screening shall be verified by Planning staff prior to issuance of a certificate of occupancy.
3. On-site pedestrian crossings of drive aisles shall be enhanced by using raised crossings, textured surfaces, and/or colored pavement, as well as a pole-mounted pedestrian crossing sign shall be installed to heighten awareness of the pedestrian crossings for drivers awaiting in the vehicle queue.
4. A final onsite traffic flow and directional signage plan shall be submitted prior to or concurrent with building plans, subject to review and approval by the Community Development Director and Public Works Director. The plan shall detail all proposed onsite signage, including menu boards, and shall indicate all pavement markings and curbs intended to inform and direct onsite traffic.
5. Replace the cabinet-style wall signs with wall signage comprised of individually mounted letters and symbols that are either indirectly illuminated or raised and backlit for a halo effect.

PUBLIC CONTACT

Public notice requirements are fulfilled by placing a notice on the project site and by posting of the agenda at least 10 days prior to the ARHPB meeting.

ATTACHMENTS

- A. Location Map
- B. Architect's Project Description
- C. Cover Sheet Site Plan
- D. Enlarged Site Plan
- E. Landscape Plans
- F. Elevation Drawings
- G. Colors and Materials
- H. Photometric Plan
- I. Lighting Details
- J. Example of Alternative Dutch Bros. Signage

DISTRIBUTION (8)

Bob Summerville, Senior Planner

Mike Sawley, Associate Planner

Makena Endeavors, LLC, Attn: Dan Richardson, 1733 Esplanade, Chico, CA 95926

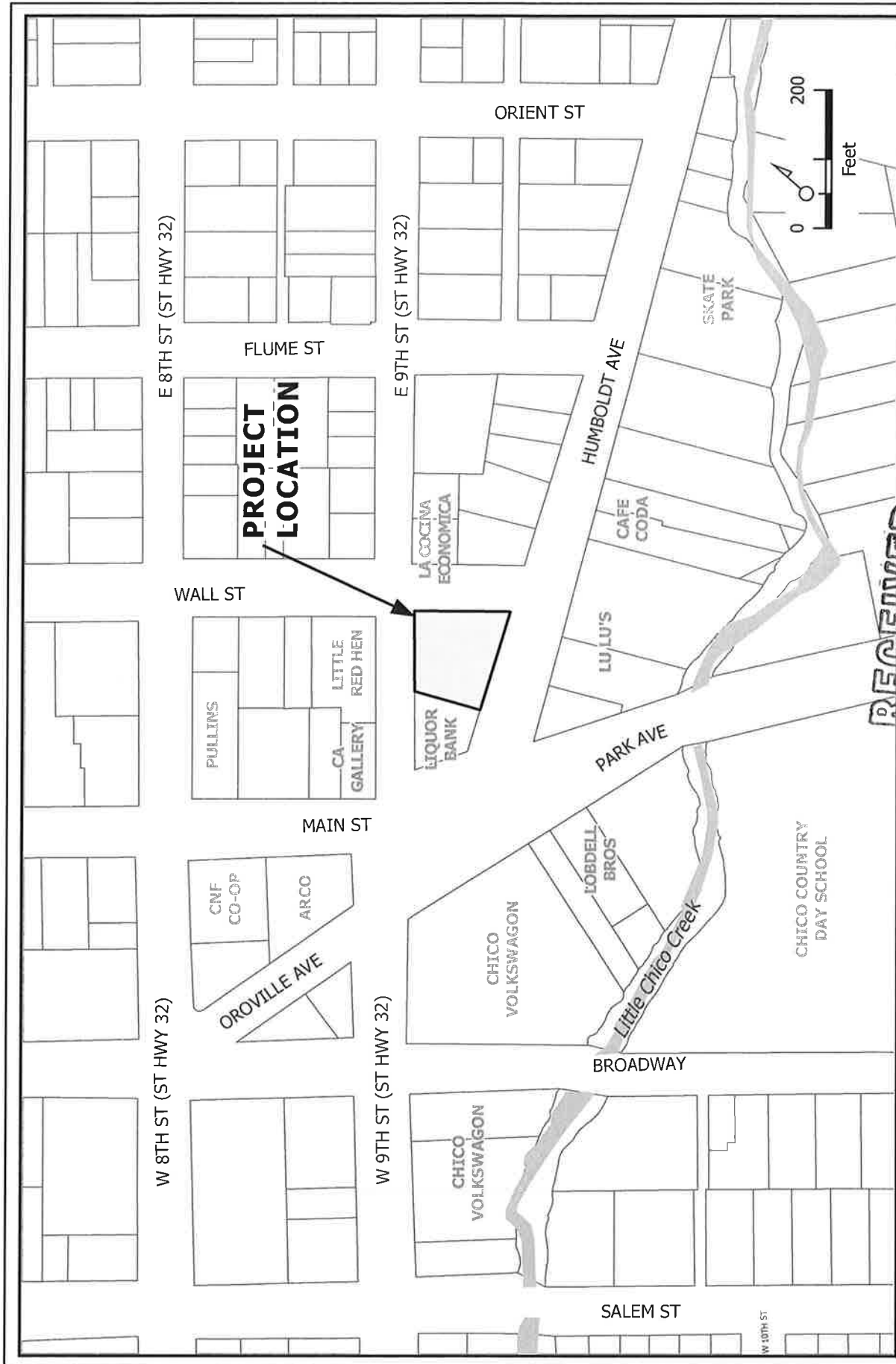
Third Shoe Inc., Attn: Alan Chambers, 349 Silver Lake Drive, Chico, CA, 95973

HLS Partnership, Attn: Bill Smith, 144 Meyers Street, Suite 160, Chico, CA, 95928

Downtown Chico Business Association, 330 Salem Street, Chico, CA 95928

Chico Chamber of Commerce, PO Box 3300, Chico, CA 95927

Files: AR 15-17



AR 15-17 (Dutch Bros)
 196 Humboldt Avenue
 APN 004-425-003-000

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Dutch Bros. Coffee

196 Humboldt Avenue (APN 004-425-003)
Chico, CA

Site Design and Architectural Review
Project Description

Revised August 25, 2015

Dan Richardson from Makena Endeavors LLC is applying for a site design and architectural review for a new Dutch Bros. Coffee facility proposed at 196 Humboldt Avenue (APN 004-425-003).

The Dutch Bros. Coffee building will have double lane drive-through windows, one on the east side of the building facing toward Wall Street, and the other on the west side of the building. Architectural elements such as awnings and windows make service portals easy to find. (DG 2.2.23) There will be a walk-up window on the north side of the building. The architectural scheme is carried through all four elevations of the building. (DG 2.2.33) This Dutch Bros. has been specifically designed to eschew the typical Dutch Bros. pitched blue metal roof in favor of a two-story building height to match surrounding businesses and neighborhood. (DG 2.2.21) This height creates interest and matches surrounding building heights as the shade structure creates an inviting space and elevates the eye. (DG 2.1.11, 2.2.25, 2.2.26) Utility equipment has been minimized through use of camouflaging color. (DG 2.2.28)

Roof-mounted equipment is completely screened by parapet walls on all sides. (DG 2.2.26, 2.2.27)

The drive through queue is a stacking lane which can stack up to six cars. The stacking lanes and off-street parking is situated on the site and is screened by a white open-wire fence with climbing vines. (DG 2.1.25) There is no squawk box for orders, as all orders are done in person by "runners" or when the customer reaches the pass through window, so exterior noise is not an issue.

Dutch Bros. Coffee will service a variety of both hot and cold drinks. Coffee related beverages are the choice in the morning with smoothies, teas, frosts and iced drinks the favorite in the afternoon and evenings. As such the Dutch Bros. operating hours will be 24 hours, seven days a week. To cover these hours, ten to twelve employees will be hired who will each work approximately thirty hours per week. There will be no more than four employees on each shift.

The project site is situated on the north side of Humboldt Avenue at the corner of Wall Street and consists of approximately 0.35 acres (15314 sf). The topography of the site is relatively flat with an elevation of approximately 197 feet above mean sea level. In general, surface water drains towards the north. The Tuscan-Anita soils at the site have 0 to 5% slopes. There is no existing vegetation on the site, as it is covered with asphalt.

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The site is devoid of wildlife. There are currently two small existing building structures on the site which will be removed.

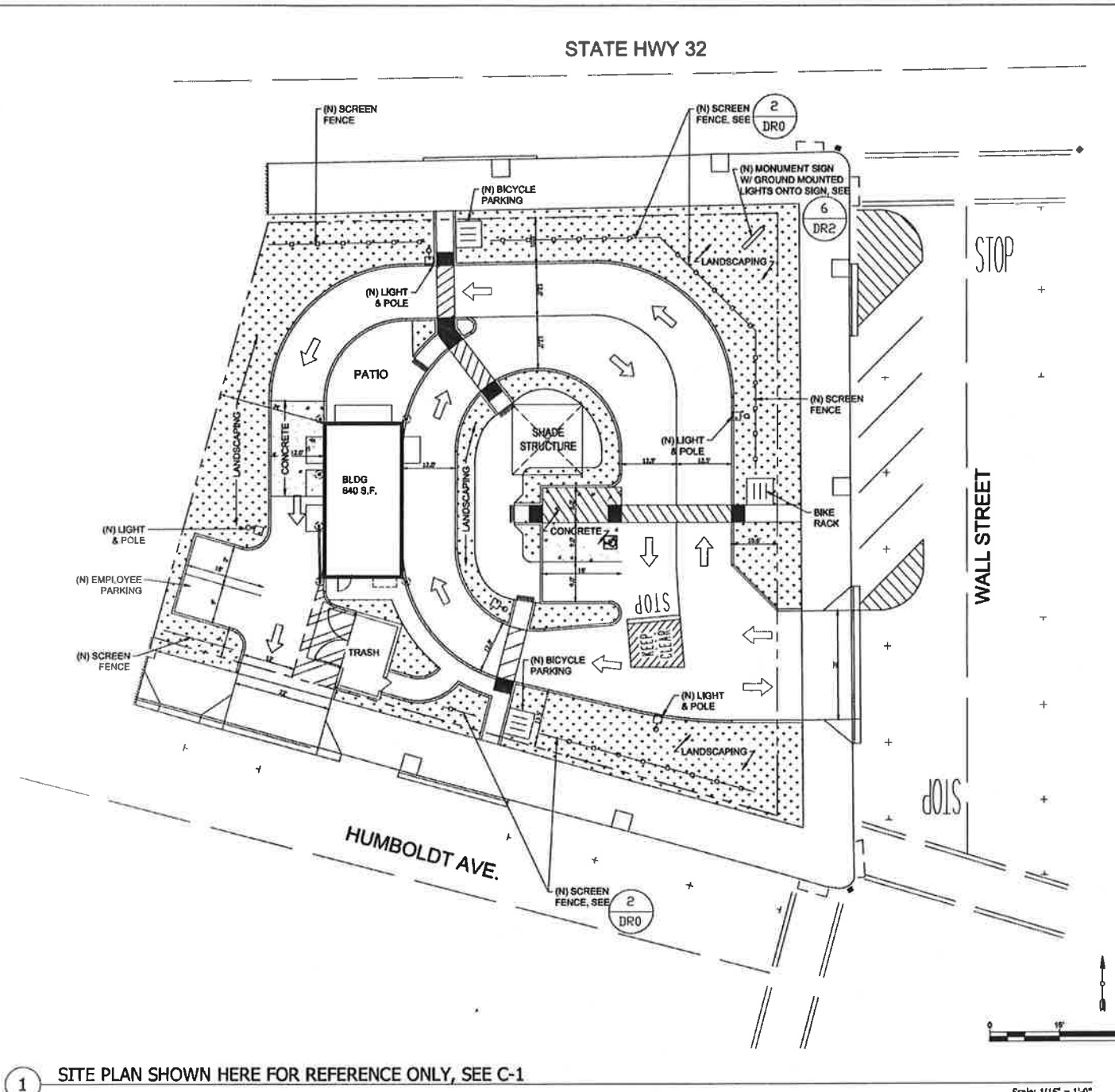
The surrounding properties include residential properties to the north across E. 9th Str., a restaurant (La Cocina Economica) and residential properties to the east across Wall Str., LuLu's to the south across Humboldt and Bar-X Liquors to the west. The back of Bar-X Liquors building is a block wall immediate adjacent to the property line, so separation will be achieved by landscape plantings. The topography and soils are very similar to the existing. The vegetation for the properties to the north, east and south are typical landscape plantings for developed or residential properties. There is no vegetation for the property to the west. The adjacent sites are also devoid of wildlife.

The grading activities for this project will include minimal fills throughout the project site. These proposed fills will be approximately up to one foot above existing grade. All fills are to be compacted to recommendations specified in soils report for site.

The actual development of the site will result in the 640 square foot Dutch Bros. Coffee building, covered patio, uncovered patio, four adjacent parking spaces, bike parking and covered, landscaping-screened trash enclosure. (DG 2.1.36) The building is wood framed with metal canopies that shelter the drive-through and walk-up windows. The exterior building materials will include stucco with a brick wainscot and a low-sloping roof hidden by parapet walls. The entire site will be landscaped with ADA accessibility to the site from the public sidewalk.

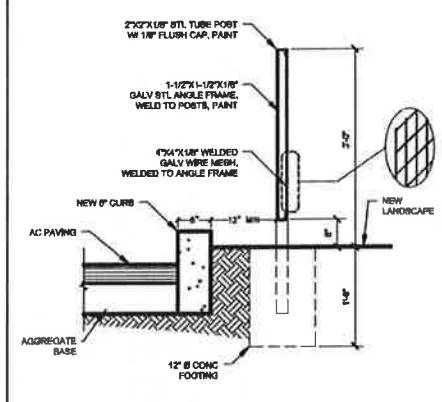
Eleven shade trees are located to provide ample shade coverage and in addition six street trees are planned. (DG 2.1.28)

Under the development plan, ingress and egress to the site will be provided from Wall Street, with additional egress onto Humboldt Avenue, depending on which drive-through lane is selected by drivers. The normal customer turn at the drive-through windows is two to three minutes providing plenty of time to exit the site without any internal stacking. Traffic impact is also minimal as the vast majority of customer trips to the facility are pass-by. Pedestrian walkways and bicycle lanes are safe and clearly visible from the street and draw people in to the shade structure and outdoor dining area. (DG 2.1.35) They are clearly designated by painting and concrete walkways through the landscaping. (DG 2.1.33) This area provides a pedestrian scaled space (DG 2.1.12, 2.1.13, 2.1.23, 2.1.24, 2.2.11). Three bicycle parking areas are located close to main coffee windows. (DG 2.1.32)



1 SITE PLAN SHOWN HERE FOR REFERENCE ONLY, SEE C-1

Scale: 1/16" = 1'-0"



2 WIRE SCREEN FENCE
Scale: 3/4" = 1'



DUTCH BROS. *Coffee*

THIRD SHOE, INC.
349 Silver Lake Drive
Chico, CA 95973
530-898-0123

ALAN CHAMBERS
Architect



DESIGNERS OF RECORD

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(530) 892-8897

SHEET INDEX

DR-0 COVER SHEET, SITE PLAN
C-1 CIVIL SITE PLAN
DR-1 KIOSK FLOOR PLAN, KIOSK ROOF PLAN
DR-2 KIOSK ELEVATIONS
L-1 LANDSCAPE PLANTING PLAN
L-2 LANDSCAPE NOTES
E1.2 ELECTRICAL LIGHTING PHOTOMETRICS

APPLICABLE CODES

2013 CALIFORNIA BUILDING CODE (TITLE 24 - PART 2)
2013 CALIFORNIA MECHANICAL CODE (TITLE 24 - PART 4)
2013 CALIFORNIA PLUMBING CODE (TITLE 24 - PART 5)
2013 CALIFORNIA ELECTRICAL CODE (TITLE 24 - PART 3)
2013 CALIFORNIA FIRE CODE (TITLE 24 - PART 9)
2013 CALIFORNIA ENERGY CODE
2013 CALIFORNIA GREEN STANDARD BUILDING CODE

PARKING

PARKING PROVIDED
(N) STANDARD 2 STALLS
(N) COMPACT 1 STALLS
(N) VAN ACCESSIBLE 1 STALLS
TOTAL PARKING PROVIDED 4 STALLS
NEW BICYCLE PARKING PROVIDED 3

PROJECT DATA

ASSESSOR PARCEL NUMBER 004-425-003

SITE ADDRESS:
196 HUMBOLDT AVENUE
CHICO, CALIFORNIA 95926

GENERAL PLANNING DESIGNATION: COMMERCIAL MIXED USE

ZONING: DS - DOWNTOWN SOUTH DISTRICT
ZONING OVERLAY DIST: L - LANDMARK
COS - CORRIDOR OPPORTUNITY SITE

OCCUPANCY GROUP: B

INTENDED OCCUPANT USE:
NEW COFFEE AND BEVERAGE DRIVE-THRU SERVICE

EXISTING RETAIL BUILDING
CONSTRUCTION TYPE: V-B

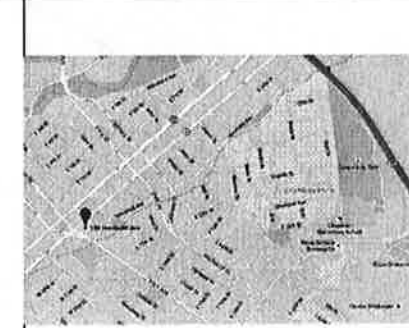
FIRE SPRINKLERS: NO

BLDG HEIGHT: 18'-0" / 1 LEVEL

ABBREVIATIONS

ABV ABOVE	INSUL INSULATION
ADJ ADJUSTABLE	INT INTERIOR
BLKG BLOCKING	MECH MECHANICAL
BM BEAM	MIN MINIMUM
CAB CABINET	(N) NEW
CC CENTER TO CENTER	NTS NOT TO SCALE
CI CAST IRON PIPE	O/ OVER
CLG CEILING	O.C. ON CENTER
COS CLEAN OUT TO GRADE	PLMB PLUMBING
CONC CONCRETE	POC POINT OF CONNECTION
CW COLD WATER	SM SIMILAR
DN DOWN	SQ SQUARE
DR DOOR	SB SANITARY SEWER
(E) EXISTING	STRUC STRUCTURAL
ELEC ELECTRICAL	(TYP) TYPICAL
ELEV ELEVATION	UNO UNLESS NOTED OTHERWISE
EQUIP EQUIPMENT	VENT VENTILATION
EXT EXTERIOR	W/ WITH
FF FINISH FLOOR	W/O WITH OUT
FLR FLOOR	WC WATER CLOSET
FOC FACE OF CURB	WH WATER HEATER
FOF FACE OF FINISH	
FRM FRAMING	
FTG FOOTING	
GYP BD GYPSUM BOARD	
HDR HEADER	
HORZ HORIZONTAL	
HT HEIGHT	
HW HOT WATER	

VICINITY MAP



PROJECT INFORMATION

EXISTING BITE AREA	15,315 SF	100%
NEW KIOSK	640 SF	4%
NEW TRASH ENCLOSURE	96 SF	1%
NEW CONCRETE AREA	3,393 SF	22%
NEW AC PAVED AREA	6,078 SF	40%
NEW LANDSCAPE AREA	5,022 SF	33%

PROJECT DESCRIPTION

THE CONSTRUCTION OF A NEW DUTCH BROS. COFFEE KIOSK BUILDING, DRIVE THROUGH, WALK-UP WINDOW, OUTDOOR PAVED AREA, PAVED PARKING AREAS AND NEW LANDSCAPE.

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DUTCH BROS COFFEE
196 HUMBOLDT AVE.
CHICO, CA

Description	Date

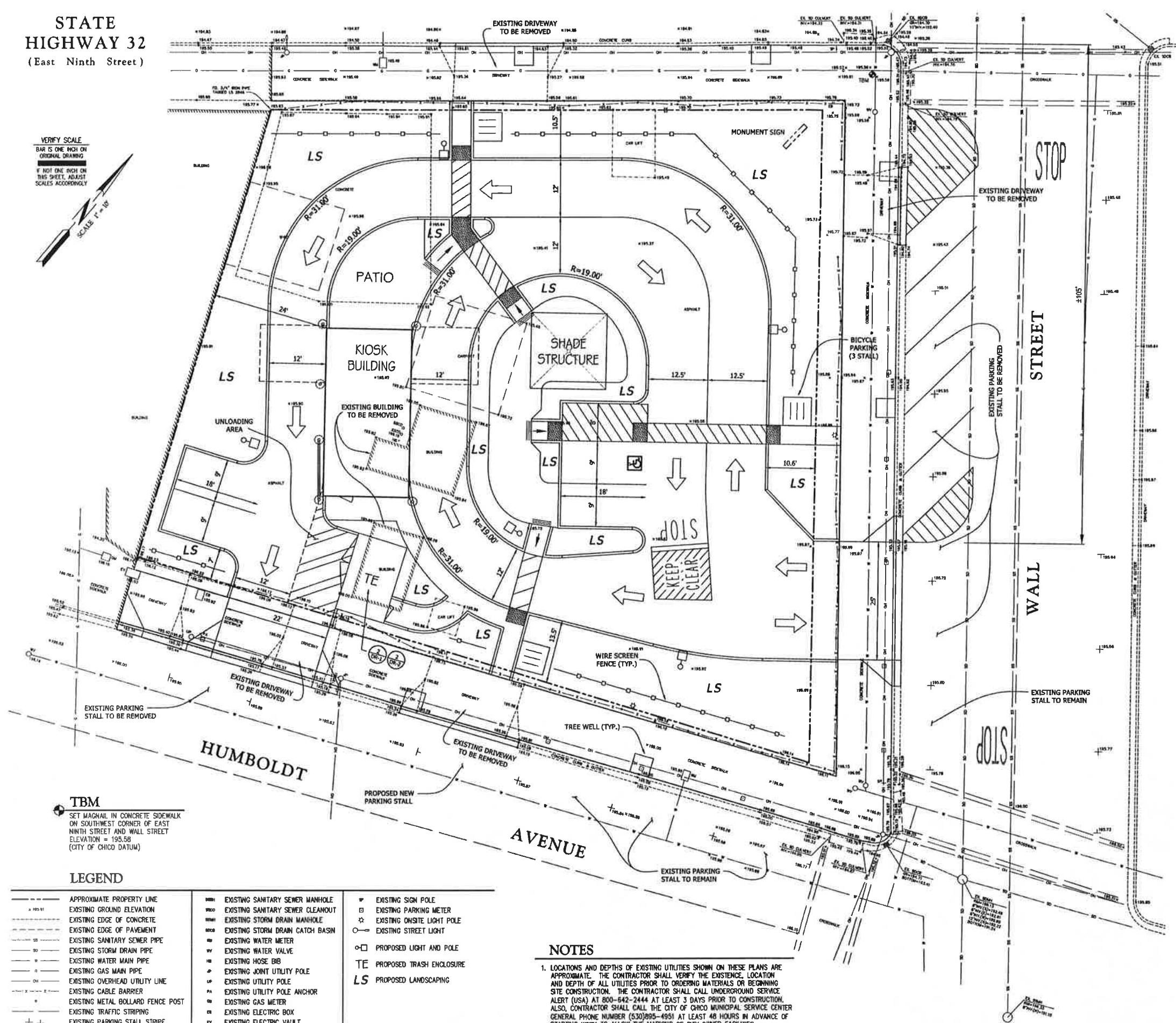
DUTCH BROS COFFEE

COVER, SITE PLAN

Project number 1508
Date 07/10/15
Drawn by KC
Checked by AC

DR-0
Scale AS NOTED

STATE
HIGHWAY 32
(East Ninth Street)



PARKING SUMMARY:

WALL STREET:
EXISTING PARALLEL PARKING STALLS: 5
PROPOSED PARALLEL PARKING STALLS: 1
PROPOSED DIAGONAL PARKING STALLS: 5

HUMBOLDT AVENUE:
EXISTING PARALLEL PARKING STALLS: 4
PROPOSED PARALLEL PARKING STALLS: 4

NOTE: NO PARKING CHANGES ARE PROPOSED ALONG EAST NINTH STREET.

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349 Silver Lake Drive
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DUTCH BROS COFFEE
196 HUMBOLDT AVE.
CHICO, CA

No.	Description	Date

DUTCH BROS COFFEE

SITE PLAN

Project number 13157
Date 08/28/15
Drawn by CAD
Checked by PWR

C1
Scale 1"=10'

TBM
SET MAGNAIL IN CONCRETE SIDEWALK
ON SOUTHWEST CORNER OF EAST
NINTH STREET AND WALL STREET
ELEVATION = 195.58
(CITY OF CHICO DATUM)

LEGEND

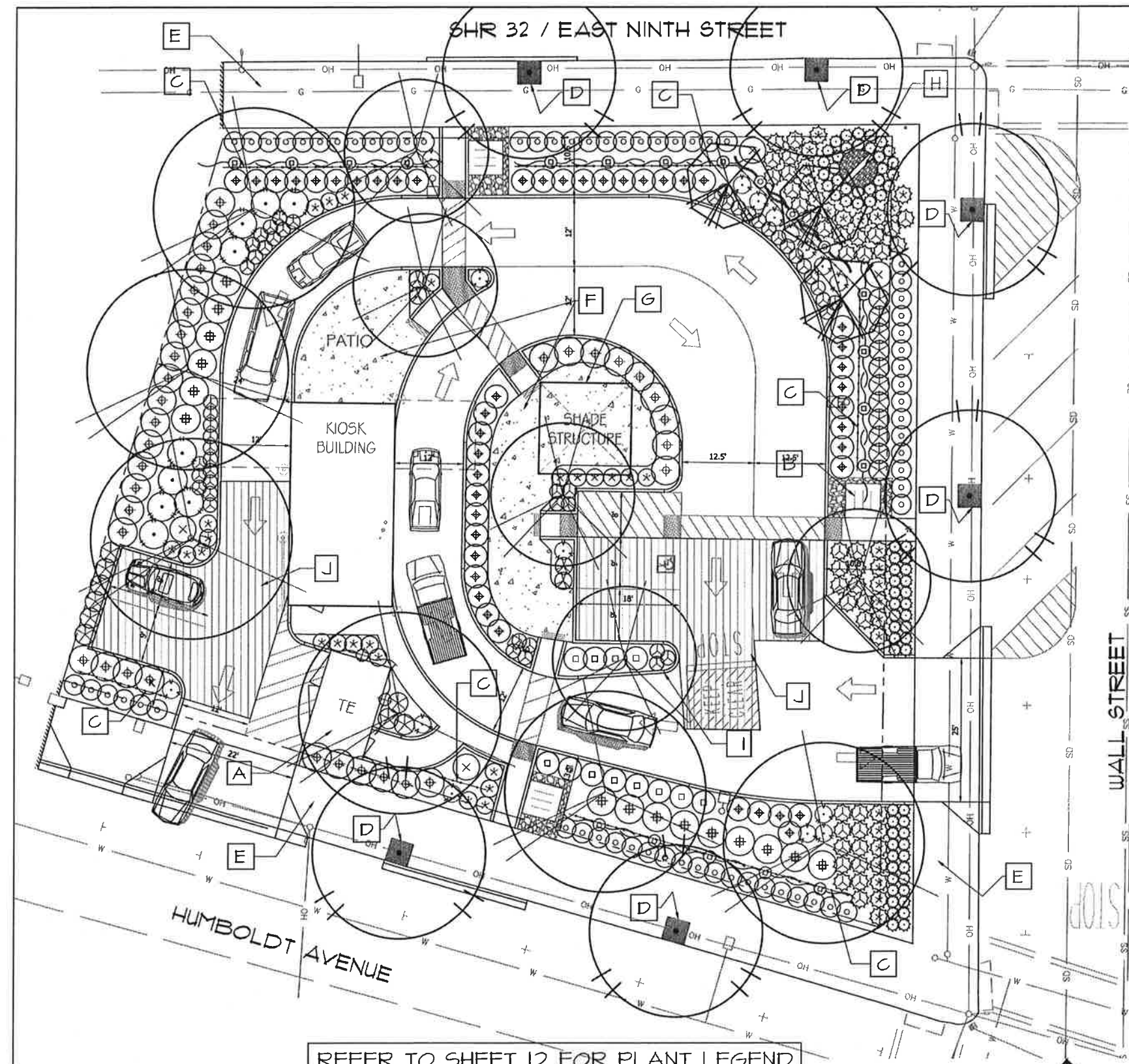
---	APPROXIMATE PROPERTY LINE	+	EXISTING SIGN POLE
100.01	EXISTING GROUND ELEVATION	□	EXISTING PARKING METER
---	EXISTING EDGE OF CONCRETE	☆	EXISTING ONSITE LIGHT POLE
---	EXISTING EDGE OF PAVEMENT	○	EXISTING STREET LIGHT
—S—	EXISTING SANITARY SEWER PIPE	○□	PROPOSED LIGHT AND POLE
—SD—	EXISTING STORM DRAIN PIPE	TE	PROPOSED TRASH ENCLOSURE
—G—	EXISTING GAS MAIN PIPE	LS	PROPOSED LANDSCAPING
—W—	EXISTING WATER MAIN PIPE		
—V—	EXISTING WATER VALVE		
—H—	EXISTING HOSE BIB		
—U—	EXISTING JOINT UTILITY POLE		
—P—	EXISTING UTILITY POLE		
—A—	EXISTING UTILITY POLE ANCHOR		
—M—	EXISTING METAL BOLLARD FENCE POST		
—T—	EXISTING TRAFFIC STRIPING		
+	EXISTING PARKING STALL STRIPE		
—	EXISTING SANITARY SEWER MANHOLE		
—	EXISTING SANITARY SEWER CLEANOUT		
—	EXISTING STORM DRAIN MANHOLE		
—	EXISTING STORM DRAIN CATCH BASIN		
—	EXISTING WATER METER		
—	EXISTING WATER VALVE		
—	EXISTING HOSE BIB		
—	EXISTING JOINT UTILITY POLE		
—	EXISTING UTILITY POLE		
—	EXISTING UTILITY POLE ANCHOR		
—	EXISTING GAS METER		
—	EXISTING ELECTRIC BOX		
—	EXISTING ELECTRIC VAULT		

NOTES

1. LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING SITE CONSTRUCTION. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 800-642-2444 AT LEAST 3 DAYS PRIOR TO CONSTRUCTION. ALSO, CONTRACTOR SHALL CALL THE CITY OF CHICO MUNICIPAL SERVICE CENTER GENERAL PHONE NUMBER (530)895-4931 AT LEAST 48 HOURS IN ADVANCE OF STARTING WORK TO ALLOW THE MARKING OF CITY OWNED FACILITIES.

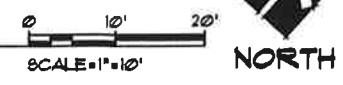
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D



REFER TO SHEET 12 FOR PLANT LEGEND

PLANTING PLAN



PLAN NOTES:

- A. Trash enclosure location
- B. Bike parking location
- C. Decorative fence location to screen headlights from exiting site. Refer to the Arch. Dwg's
- D. New 48" sq. 'Neenah Foundry' City of Chico Std. cast iron tree grate location, typ.
- E. New concrete paving, refer to the Arch. Dwg's.
- F. Broom finish accent paving area
- G. Shade structure location, refer to the Arch. Dwg's.
- H. Sign location
- I. Excavate all finger island and parking field planters to a minimum depth of 30". Back fill with Imported top soil. Install vertical 24" root barriers against all curbs within 10' of tree locations.
- J. Parking area (shaded) to have 50% shade provided, refer to table this sheet

Shade Calculations: Dutch Bros. Humboldt Ave

Botanical Name	Common Name	Quantity	Shade allowed	at 25%	50%	75%	100%	Total
Acer rubrum 'Red Sunset'	Sunset Red Maple	1	707	0	1	0	0	353.50
Zelkova serrata 'Village Green'	Japanese Zelkova	1	1,259	0	1	0	0	628.00
Total Shade Allowed		2	0	2	0	0	0	981.50
parking lot area to be shaded								1,760.00
% Shade Provided*								55.77%

(*Parking lot area requiring 50% shade / divided by shade provided by new trees)

THIRD SHOE, INC.
349 Silver Lake Drive
Chico, CA 95973
916-898-0123

ALAN CHAMBERS
Architect

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PLANNING SERVICES

DUTCH BROS. COFFEE
196 HUMBOLDT ROAD
CHICO, CA

Description	Date



PLANTING PLAN

Project number	13157
Date	07/10/15
Drawn by	THP
Checked by	AC

L-1

Scale 1" = 10'



THOMAS H. PHELPS
LANDSCAPE ARCHITECTURE
ASLA
California Landscape Architect #4122
P.O. BOX 8328
Chico, CA 95927-4028
(530) 897-8917 (530) 897-7586 fax
thp@thp-asla.com

E

GENERAL NOTES:

- A. The landscape plans will comply with the requirements of the water efficient landscape ordinance (WELO):
 Elements of the Landscape Documentation Package:
 (a) The Landscape Documentation Package shall include the following six (6) elements:
 (1) project information;
 (A) date
 (B) project applicant
 (C) project address (if available, parcel and/or lot number(s))
 (D) total landscape area (square feet)
 (E) project type (e.g., new, rehabilitated, public, private, cemetery, homeowner-installed)
 (F) water supply type (e.g., potable, recycled, well) and identify the local retail water purveyor if the applicant is not served by a private well
 (G) checklist of all documents in Landscape Documentation Package
 (H) project contacts to include contact information for the project applicant and property owner
 (I) applicant signature and date with statement, "I agree to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Documentation Package"
 (2) Water Efficient Landscape Worksheet;
 (A) hydrozone information table
 (B) water budget calculations
 1. Maximum Applied Water Allowance (MAWA)
 2. Estimated Total Water Use (ETWU)
 (3) soil management report;
 (4) landscape design plan;
 (5) irrigation design plan; and
 (6) grading design plan.

PLANT LEGEND

Key	Botanical Name - Common Name ***	Size	Qty.*	PF**	Symbol
TREES					
T1	Acer x freemanii 'Autumn Blaze' - Autumn Blaze Red Maple	#15	5	M	
T2	Lagerstroemia Indica 'Tuscarora' Std. - Std Pink Crape Myrtle	#15	3	L	
T3	Pistacia chinensis 'Keith Davey' - Chinese Pistache	#15	6	L	
T4	Zelkova serrata 'Village Green' - Japanese Sawleaf Zelkova	#15	6	M	
GRASSES					
G1	Festuca ovina 'Elijah Blue' - Blue Fescue	#1	72	L	
G2	Pennisetum a. 'Hameln' - Dwarf Fountain Grass	#1	24	L	
G3	Stipa tenuissima - Mexican Feather Grass	#1	39	L	
PERENNIALS					
P1	Agapanthus africanus 'Peter Pan' - Dwarf Lily of the Nile	#1	50	M	
P2	Dietes vegeta - Fortnight Lily	#1	16	L	
P3	Erigeron karvinskianus - Santa Barbara Daisy	#1	4	M	
P4	Tulbahgia violacea 'Variegata' - Variegated Society Garlic	#1	24	L	
SHRUBS					
S1	Berberis japonica 'Crimson Pygmy' - Dwarf Japanese Barberry	#5	62	L	
S2	Loropetalum chinensis 'Razzle Dazzle' - Chinese Fringe Flower	#5	9	M	
S3	Nandina domestica 'Gulf Stream' - Gulf Stream Heavenly Bamboo	#5	20	L	
S4	Pittosporum tobira 'Variegata' - Variegated Pittosporum	#5	17	M	
S5	Raphiolepis Indica 'Ballerina' - Dwarf Pink India Hawthorne	#5	12	M	
S6	Rosa x 'Flower Carpet Red' - Red Flower Carpet Rose	#2	48	M	
S7	Spiraea bumalda 'Anthony Waterer' - Anthony Waterer Spiraea	#5	2	M	
S8	Prunus caroliniana 'Bright-N-Tight' - Bright N Tight Cherry Laurel	#5	35	M	
VINES					
V1	Ficus pumila - Creeping Fig, staked	#5	2	M	
V2	Jasminum polyanthum - Pink Jasmine, Staked	#1	3	M	
V3	Trachelospermum jasminoides - Star Jasmine, Staked	#1	17	M	

Note: *Contractor to verify all quantities from plan. Plant legend is for reference only.
 Note: ** PF: WUCOLS IV Species Evaluation List-2014; Sunset Zone 9, WUCOLS Region 2, Central Valley

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 Chico, CA 95973
 916-898-0123

ALAN CHAMBERS
 Architect

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DUTCH BROS. COFFEE
 196 HUMBOLDT ROAD
 CHICO, CA

Description	Date



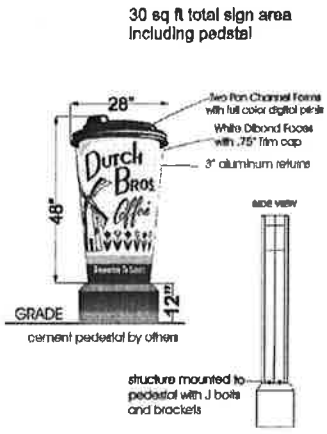
LANDSCAPE NOTES

Project number	13157
Date	07/10/15
Drawn by	THP
Checked by	AC
L-2	
Scale	NO SCALE

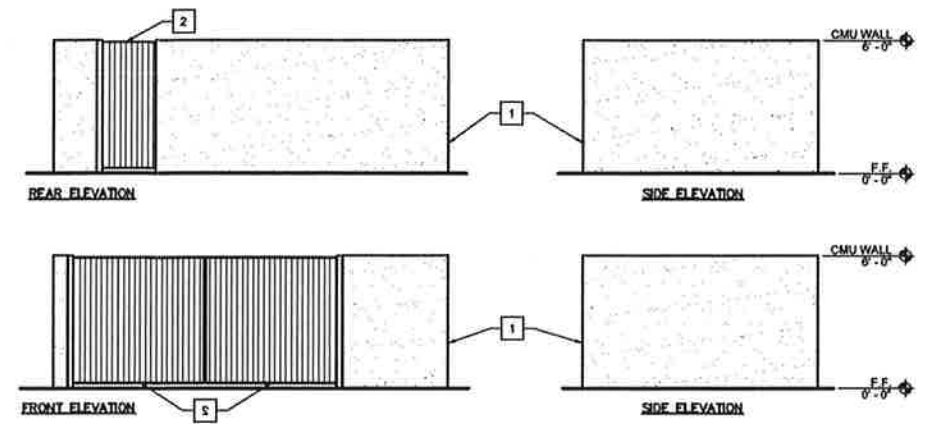


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 (530)897-8897 (530)897-9588 fax
 thp@thp.com

E



6 NON-ILLUMINATED MONUMENT SIGN
Scale: NTS



5 TRASH ENCLOSURE ELEVATIONS
Scale: 1/4"=1'

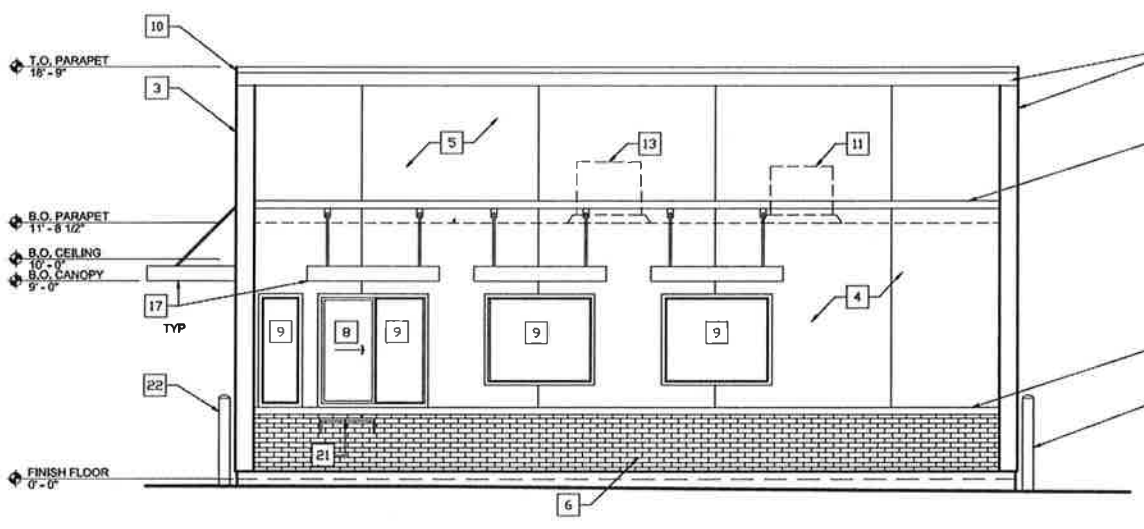
TRASH ENCLOSURE ELEVATION KEYNOTES	
KEY	DESCRIPTION
1	6" PRECISION SMOOTH FACE CMU WALL W/ STUCCO FINISH, PAINTED COLOR #2 GRAY
2	CORRUGATED METAL PANEL TRASH ENCLOSURE DOORS, PAINT COLOR #1 BLUE

EXTERIOR MATERIALS

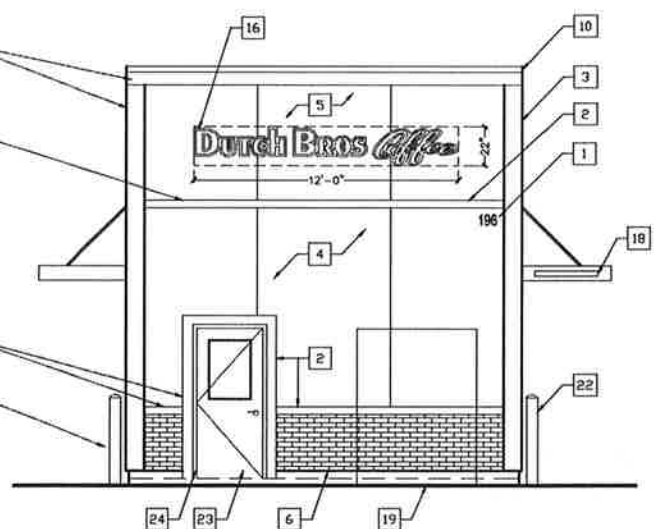
PAINT COLORS
 COLOR #1 - DUTCH BROS. BLUE, MILLER PAINT # B-2Y40 C-8 L-1Y
 COLOR #2 - DUTCH BROS. GRAY, MILLER PAINT # E-4Y 1-16
 COLOR #3 - DUTCH BROS. WHITE, MILLER PAINT # 7500

WAINSCOT
 H.C. MUDDOX NORMAN THIN BRICK 2 1/2" X 11 1/2" X 1 1/2"
 COLOR: EBONY

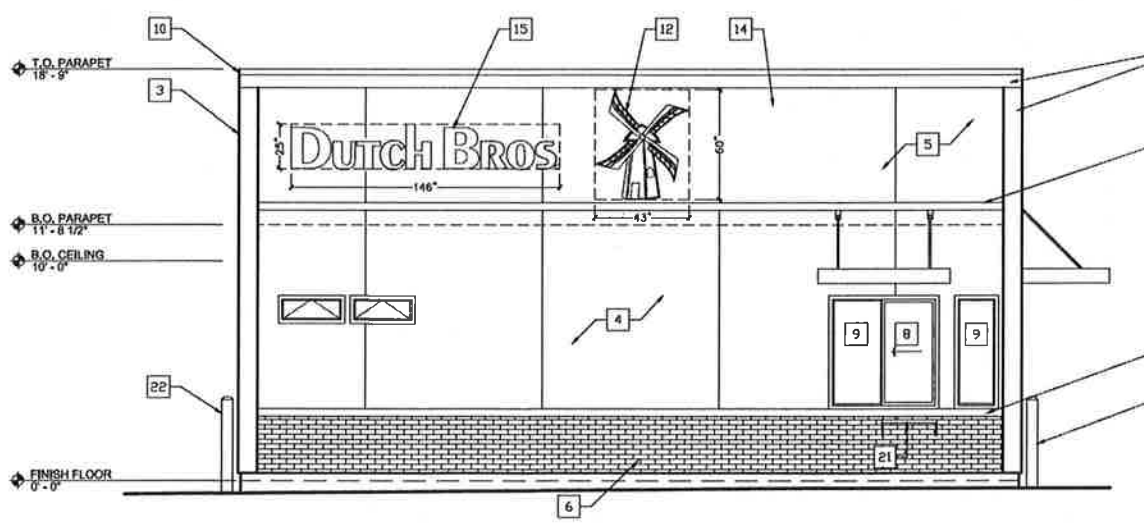
KIOSK ELEVATION KEYNOTES	
KEY	DESCRIPTION
01	6" HIGH ADDRESS NUMBERS, COLOR: WHITE, NUMBERS SHALL CONTRAST WITH BACKGROUND COLOR & READILY VISIBLE FROM STREET
02	1x4 STUCCO TRIM, PAINT COLOR #3, WHITE
03	1x10 STUCCO TRIM, PAINT COLOR #1, BLUE
04	BUILDING WALL STUCCO, PAINT COLOR #2, GRAY
05	PARAPET STUCCO, PAINT COLOR #2, GRAY
06	BRICK WAINSCOT, COLOR EBONY
07	WALK-UP HORIZONTAL SLIDING WINDOW, WHITE
08	DRIVE-THRU HORIZONTAL SLIDING WINDOW, WHITE
09	FIXED WINDOW, WHITE
10	METAL CAP FLASHING, PAINT COLOR #1, BLUE
11	ICE MACHINE ROOF MOUNTED CONDENSER
12	WALK-IN COOLER ROOF MOUNTED CONDENSER
13	HVAC
14	LIGHTED WINDMILL SIGN, 4'-0" x 5'-0" (20 SF)
15	LIGHTED DUTCH BROS. COFFEE SIGN 27" x 15'-6" (34.88 SF)
16	LIGHTED DUTCH BROS COFFEE SIGN, 26"X12'-2" (28.31 SF)
17	CUSTOM METAL CANOPY WITH LIGHTS BELOW, PAINT COLOR #1 BLUE
18	3" TALL CLEARANCE SIGN, COLOR #1, BLUE W/ WHITE LETTERS
19	ELECTRICAL SWITCHBOARD, MFR STANDARD GRAY COLOR
20	STAINLESS STEEL SERVICE COUNTER NOT TO EXCEED 34" AFF, PER SECTION 11B-220.3
21	STAINLESS STEEL SERVICE COUNTER
22	STEEL BOLLARDS, PAINT COLOR #1, BLUE
23	HOLLOW METAL DOOR W/ GLAZING, PAINT COLOR #1, GRAY
24	HOLLOW METAL DOOR FRAMES, PAINT COLOR #2, GRAY



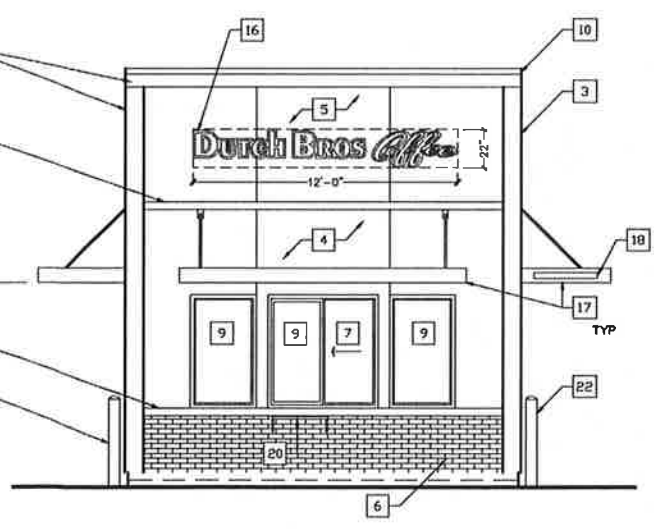
4 WEST ELEVATION
Scale: 1/4"=1'



3 SOUTH ELEVATION
Scale: 1/4"=1'



2 EAST/STREET ELEVATION
Scale: 1/4"=1'



1 NORTH ELEVATION
Scale: 1/4"=1'

WALL SIGN SQUARE FEET		
LOCATION	VIEW	SIGNAGE AREA SF
NORTH	1	22.0
SOUTH	3	22.0
EAST	2	43.0
WEST	4	NONE
WALL SIGN TOTAL < 250 MAX		87.0
MONUMENT	6	30.0
MONUMENT SIGN < 30 MAX		
TOTAL SIGNAGE		117.0
1.5 S.F. PER LINEAR FT. OF PARCEL FRONTAGE, NOT TO EXCEED 250 S.F. TOTAL		
PROP LINE	LINEAR FT.	TOTAL ALLOWABLE SIGNAGE SF
NORTH	116	174
EAST	138	207
SOUTH	148	222
WEST	N/A	0
TOTAL > 250 MAX		603

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DUTCH BROS COFFEE
 196 HUMBOLDT AVE.
 CHICO, CA

No.	Description	Date

DUTCH BROS COFFEE

EXTERIOR ELEVATIONS

Project number 1508
 Date 07/15/15
 Drawn by KC
 Checked by AC

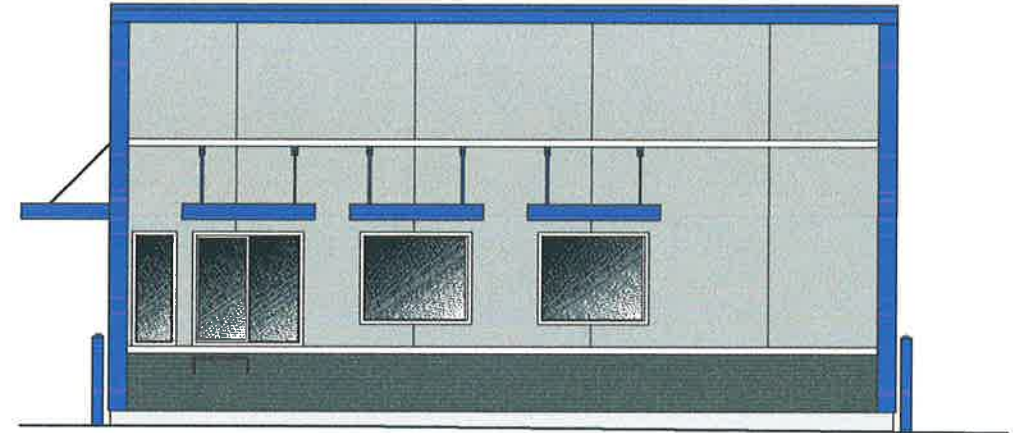
DR-2
 Scale 1/4"=1'

Exterior Building Colors:

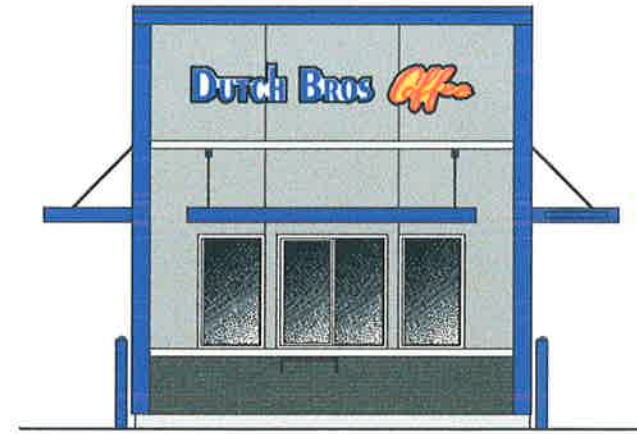
-  BLUE PAINT:
TRIM STUCCO
METAL CAP
FLASHING
-  GRAY PAINT:
EXTERIOR WALL STUCCO
-  WHITE PAINT:
STUCCO TRIM
-  DARK GRAY:
BRICK VAINSCOT

THIRD SHOE, INC.
349 Silver Lake Drive
Chico, CA 95973
916-529-3454

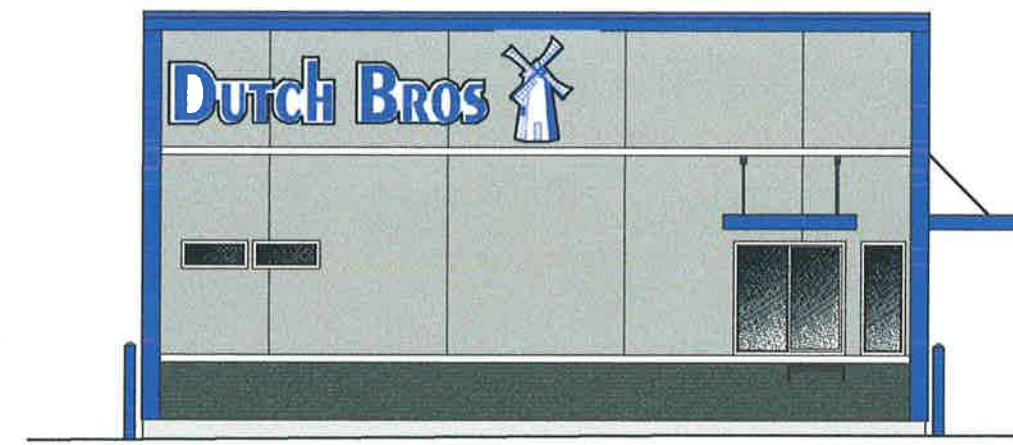
ALAN CHAMBERS
Architect



WEST ELEVATION
SCALE: 1/4" = 1'-0"



NORTH ELEVATION
SCALE: 1/4" = 1'-0"



EAST ELEVATION
SCALE: 1/4" = 1'-0"



SOUTH/STREET ELEVATION
SCALE: 1/4" = 1'-0"

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DUTCH BROS COFFEE
CHICO, CA

No.	Description	Date

Dutch Bros.
Coffee

Color
Elevations

Project number 1510
Date 9 JULY, 2015
Drawn by JLL
Checked by

DR-4

Scale 1/4" = 1'-0"

F

DUTCH Bros.



195 Humboldt Avenue, Chico

Alan S. Chambers
Third Shoe, Inc.
349 Silver Lake Dr.
Chico, CA 95923
(530) 898-0123



H.C. Muddox Thin Brick Norman Ebony; waterproofing at Collee Kiosk; trash enclosure



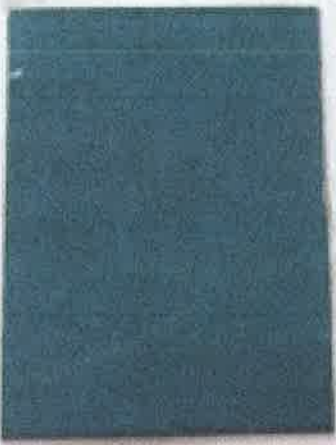
Blue Paint
Trash enclosure doors, metal cap flashing, 1x10 stucco trim



Grey Paint: All exterior walls, doors, roof trim, parapet stucco, trash enclosure walls and doors



White Paint
1x4 stucco trim around windows and doors



Blue Metal trim: metal canopies



Synthesis Saf-Rshade Blue Shade Structure Fabric

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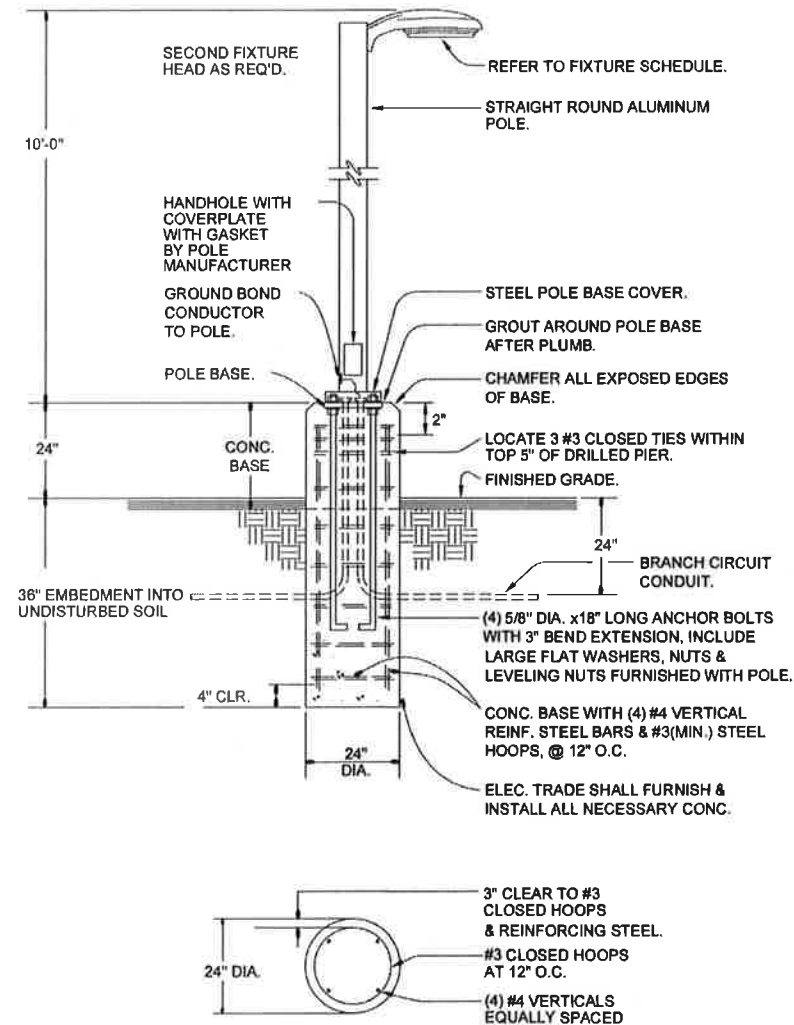
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JD

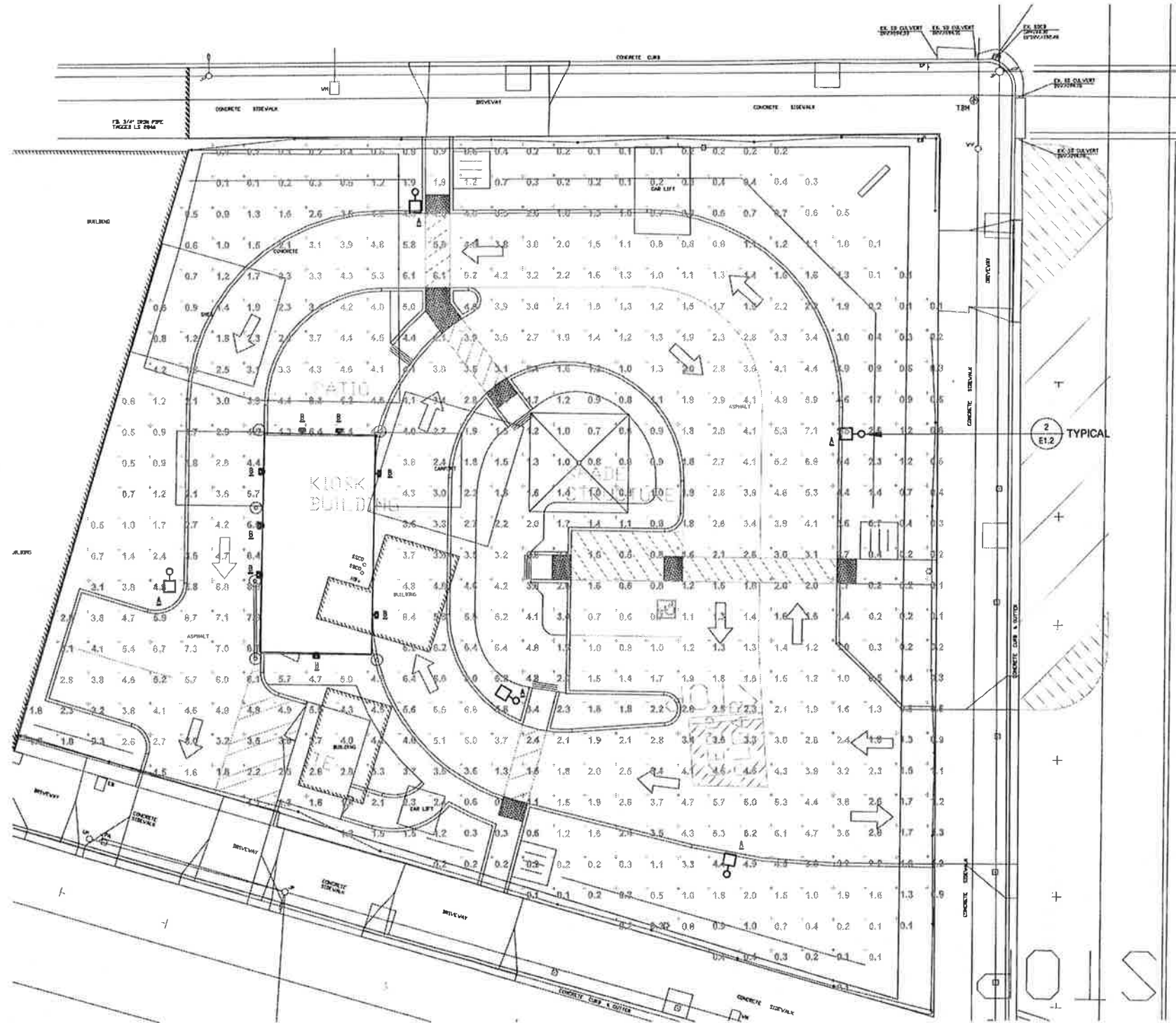
LUMINAIRE SCHEDULE

TYPE	MANUFACTURER/CATALOG	DESCRIPTION	MOUNTING				REMARKS
				TYPE	VOLTS	WATTS	
A	LITHONIA LIGHTING DSXO LED 40C 1000 30K T4M MVOLT HS DDBXD	OUTDOOR LED POLE	POLE	LED	208	137.2	
B	LITHONIA LIGHTING WST LED 1 10A700/30K SR3 MVOLT DDBTXD	LED WALL SCONCE	WALL	LED	120	24	

Statistics						
Symbol	Description	Avg	Max	Min	Max/Min	Avg/Min
—	Calc Zone #2	2.4 fc	8.8 fc	0.1 fc	88.0:1	24.0:1



2 POLE LIGHT DETAIL - RAISED BASE
NO SCALE



1 ELECTRICAL SITE PLAN - PHOTOMETRICS
SCALE: 1" = 10'-0"

THIRD SHOE, INC.
349 Silver Lake Drive
Chico, CA 95973
530-898-0123

ALAN CHAMBERS
Architect



EDGE ELECTRICAL CONSTRUCTION
431 32th Street, Sacramento, CA 95816
Office 916.230.2400
PROJECT NO. C170 CONTACT: Dean



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DUTCH BROS COFFEE
196 HUMBOLT AVE.
CHICO, CA

No.	Description	Date

DUTCH BROS COFFEE

ELECTRICAL SITE PLAN
PHOTOMETRICS

Project number
Date
Drawn by **EDGE**
Checked by **EDGE**

E1.2

Scale



H



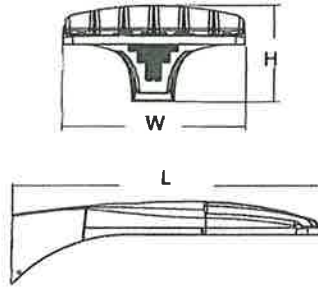
D-Series Size 0 LED Area Luminaire



d^{series}

Specifications

EPA:	0.8 ft ² (0.07 m ²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height:	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)



Catalog Number	DSXO LED 40C 100 50K T3M MVOLT HS DDBXD
Notes	
Type	A

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSXO LED 40C 1000 40K T3M MVOLT SPA DDBXD

DSXO LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting
DSXO LED	Forward optics	530 530 mA	30K 3000 K 80 (CRI min.)	T1S Type I short	MVOLT ⁴ 120 ⁴ 208 ⁴ 240 ⁴ 277 ⁴ 347 ⁵ 480 ⁵	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁶ RPUMBA Round pole universal mounting adaptor ⁶ Shipped separately ⁷ KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)
	20C 20 LEDs (one engine)	700 700 mA	40K 4000 K (70 (CRI min.))	T2S Type II short		
	40C 40 LEDs (two engines)	1000 1000 mA (1 A) ²	50K 5000 K (70 (CRI))	T2M Type II medium		
	Rotated optics ¹		AMBPC Amber phosphor converted ³	T3S Type III short		
	30C 30 LEDs (one engine)			T3M Type III medium		
				T4M Type IV medium		
				T5V Type V very short		
				T5S Type V short		
				T5M Type V medium		
				T5W Type V wide		

Control options	Other options	Finish
Shipped installed	Shipped installed	DDBXD Dark bronze
PER NEMA twist-lock receptacle only (no controls) ⁸	HS House-side shield ¹⁶	DBLXD Black
PER5 Five-wire receptacle only (no controls) ^{8,2}	SF Single fuse (120, 277, 347V) ¹⁷	DNAXD Natural aluminum
PER7 Seven-wire receptacle only (no controls) ^{8,9}	DF Double fuse (208, 240, 480V) ¹⁷	DWHXD White
DMG 0-10V dimming driver (no controls) ¹⁰	L90 Left rotated optics ¹	DDBTXD Textured dark bronze
DCR Dimmable and controllable via ROAM [®] (no controls) ¹¹	R90 Right rotated optics ¹	DBLXD Textured black
PIR Motion sensor, 8-15' mounting height ¹²	DDL Diffused drop lens ¹⁶	DNATXD Textured natural aluminum
PIRH Motion sensor, 15-30' mounting height ¹²		DWHGXD Textured white

Controls & Shields

Accessories <small>Ordered and shipped separately</small>	DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V) ¹⁴
	DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) ¹⁴
	DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V) ¹⁴
	SCU Shorting cap ¹⁰
	DSX0HS 20C U House-side shield for 20 LED unit ¹⁴
	DSX0HS 30C U House-side shield for 30 LED unit ¹⁴
	DSX0HS 40C U House-side shield for 40 LED unit ¹⁴
	DSX0DDL U Diffused drop lens (polycarbonate) ¹⁴
	PUMBA DDBXD U ⁶ Square and round pole universal mounting bracket adaptor (specify finish)
	KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁷

For more controls, options, visit [www.lithonia.com](#) and [www.acuitybrands.com](#) online

NOTES

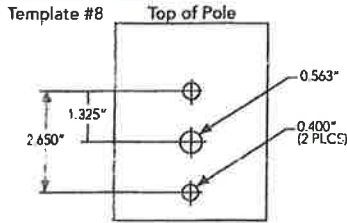
- 30 LEDs (30C option) and rotated options (L90 or R90) only available together.
- 1000mA not available with AMBPC.
- AMBPC only available with 530mA or 700mA.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).
- Not available with single board, 530mA product (20C 530 or 30C 530). Not available with BL30, BL50 or PNMT options.
- Available as a separate combination accessory: PUMBA (finish U); 1.5 G vibration load rating per ANCI C136.31.
- Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR.
- DMG option for 347V or 480V requires 1000mA.
- Specifies a ROAM[®] enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM[®] deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@acuitybrands.com. N/A with FIR, PIRH, PER5, PER7, BL30, BL50 or PNMT options.
- PIR specifies the **SensorSwitch[®] S3GR-10-ODD** control; PIRH specifies the **SensorSwitch[®] S3GR-4-ODD** control; see **Mast Arm Sensor Guide** for details. Dimming driver standard. Not available with PER5 or PER7.
- Requires an additional switched circuit.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, PER5, PER7 or PNMT options.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, PER5, PER7 or PNMT options.
- Also available as a separate accessory; see Accessories information.
- Single fuse (SF) requires 120V, 208V or 240V. Double fuse (DF) requires 208V, 240V or 480V.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.



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Drilling



DSX0 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single Unit	DM29AS	2 at 90°*
DM28AS	2 at 180°	DM39AS	3 at 90°*
DM49AS	4 at 90°*	DM32AS	3 at 120°**

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's [Lighting Solutions](#) to see our wide selection of poles, accessories and educational tools.

*Round pole top must be 1.25" O.D. minimum.

**For round pole mounting (RPM) only.

Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

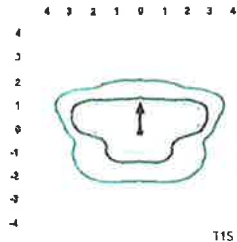
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area homepage](#).

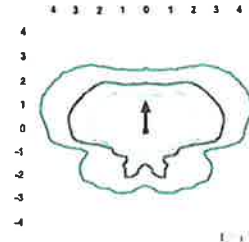
Isocandela plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

LEGEND

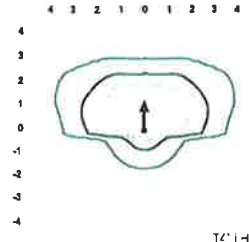
0.1 fc
0.5 fc
1.0 fc



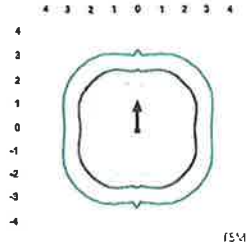
Test No. T-15, 1.25' height, tested in accordance with IESNA TM-79-08



Test No. T-2, 1.25' height, tested in accordance with IESNA TM-79-08



Test No. T-4, 1.25' height, tested in accordance with IESNA TM-79-08



Test No. T-5M, 1.25' height, tested in accordance with IESNA TM-79-08

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C / 32°F	1.02
10°C / 50°F	1.01
20°C / 68°F	1.00
25°C / 77°F	1.00
30°C / 86°F	1.00
40°C / 104°F	0.99

Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
20C	530	35	0.34	0.22	0.21	0.20	--	--
	700	45	0.47	0.28	0.24	0.22	0.18	0.14
	1000	72	0.76	0.45	0.39	0.36	0.36	0.26
30C	530	52	0.51	0.31	0.28	0.25	--	--
	700	70	0.72	0.43	0.37	0.34	0.25	0.19
	1000	104	1.11	0.64	0.56	0.49	0.47	0.34
40C	530	68	0.71	0.41	0.36	0.33	0.25	0.19
	700	91	0.94	0.55	0.48	0.42	0.33	0.24
	1000	138	1.45	0.84	0.73	0.64	0.69	0.50

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSX0 LED 20C 1000			
	1	0.97	0.94	0.90
	DSX0 LED 40C 1000			
	1	0.94	0.90	0.84
DSX0 LED 40C 700				
1	0.99	0.98	0.96	



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (1000 K, 70 CRI)				40K (2000 K, 70 CRI)				50K (3000 K, 70 CRI)				AMBPC (Ambient Phosphor Coated)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				Lumens	R	U	G	LPW	Lumens	R	U	G	LPW	Lumens	R	U	G	LPW	Lumens	R	U	G	LPW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				20C (20 LEDs) <tr> <td rowspan="36">20C (20 LEDs)</td> <td rowspan="12">530 mA</td> <td rowspan="12">35 W</td> <td>T1S</td><td>3,174</td><td>1</td><td>0</td><td>1</td><td>91</td><td>3,971</td><td>1</td><td>0</td><td>1</td><td>113</td><td>4,001</td><td>1</td><td>0</td><td>1</td><td>114</td><td>2,541</td><td>1</td><td>0</td><td>1</td><td>73</td> </tr> <tr> <td>T2S</td><td>3,234</td><td>1</td><td>0</td><td>1</td><td>92</td><td>4,045</td><td>1</td><td>0</td><td>1</td><td>116</td><td>4,075</td><td>1</td><td>0</td><td>1</td><td>116</td><td>2,589</td><td>1</td><td>0</td><td>1</td><td>74</td> </tr> <tr> <td>T2M</td><td>3,121</td><td>1</td><td>0</td><td>1</td><td>91</td><td>3,967</td><td>1</td><td>0</td><td>1</td><td>113</td><td>3,997</td><td>1</td><td>0</td><td>1</td><td>114</td><td>2,539</td><td>1</td><td>0</td><td>1</td><td>73</td> </tr> <tr> <td>T3S</td><td>3,195</td><td>1</td><td>0</td><td>1</td><td>91</td><td>3,997</td><td>1</td><td>0</td><td>1</td><td>114</td><td>4,027</td><td>1</td><td>0</td><td>1</td><td>115</td><td>2,558</td><td>1</td><td>0</td><td>1</td><td>73</td> </tr> <tr> <td>T3M</td><td>3,226</td><td>1</td><td>0</td><td>1</td><td>92</td><td>4,036</td><td>1</td><td>0</td><td>1</td><td>115</td><td>4,066</td><td>1</td><td>0</td><td>1</td><td>116</td><td>2,583</td><td>1</td><td>0</td><td>1</td><td>74</td> </tr> <tr> <td>T4M</td><td>3,210</td><td>1</td><td>0</td><td>1</td><td>92</td><td>4,015</td><td>1</td><td>0</td><td>1</td><td>115</td><td>4,045</td><td>1</td><td>0</td><td>1</td><td>116</td><td>2,570</td><td>1</td><td>0</td><td>1</td><td>73</td> </tr> <tr> <td>TF1M</td><td>3,173</td><td>1</td><td>0</td><td>1</td><td>91</td><td>3,969</td><td>1</td><td>0</td><td>2</td><td>113</td><td>3,999</td><td>1</td><td>0</td><td>2</td><td>114</td><td>2,540</td><td>1</td><td>0</td><td>1</td><td>73</td> </tr> <tr> <td>TSVS</td><td>3,310</td><td>2</td><td>0</td><td>0</td><td>95</td><td>4,140</td><td>2</td><td>0</td><td>0</td><td>118</td><td>4,172</td><td>2</td><td>0</td><td>0</td><td>119</td><td>2,650</td><td>1</td><td>0</td><td>0</td><td>76</td> </tr> <tr> <td>TSS</td><td>3,360</td><td>2</td><td>0</td><td>2</td><td>96</td><td>4,203</td><td>2</td><td>0</td><td>0</td><td>120</td><td>4,235</td><td>2</td><td>0</td><td>0</td><td>121</td><td>2,690</td><td>1</td><td>0</td><td>0</td><td>77</td> </tr> <tr> <td>TSM</td><td>3,320</td><td>2</td><td>0</td><td>1</td><td>95</td><td>4,153</td><td>3</td><td>0</td><td>1</td><td>119</td><td>4,184</td><td>3</td><td>0</td><td>1</td><td>120</td><td>2,658</td><td>2</td><td>0</td><td>0</td><td>76</td> </tr> <tr> <td>TSW</td><td>3,327</td><td>3</td><td>0</td><td>1</td><td>95</td><td>4,161</td><td>3</td><td>0</td><td>1</td><td>119</td><td>4,193</td><td>3</td><td>0</td><td>1</td><td>120</td><td>2,663</td><td>2</td><td>0</td><td>1</td><td>76</td> </tr> <tr> <td rowspan="12">700 mA</td> <td rowspan="12">45 W</td> <td>T1S</td><td>3,927</td><td>1</td><td>0</td><td>1</td><td>87</td><td>4,913</td><td>1</td><td>0</td><td>1</td><td>109</td><td>4,950</td><td>1</td><td>0</td><td>1</td><td>110</td><td>3,144</td><td>1</td><td>0</td><td>1</td><td>70</td> </tr> <tr> <td>T2S</td><td>4,000</td><td>1</td><td>0</td><td>1</td><td>89</td><td>5,004</td><td>1</td><td>0</td><td>1</td><td>111</td><td>5,042</td><td>1</td><td>0</td><td>1</td><td>112</td><td>3,203</td><td>1</td><td>0</td><td>1</td><td>71</td> </tr> <tr> <td>T2M</td><td>3,924</td><td>1</td><td>0</td><td>1</td><td>87</td><td>4,908</td><td>1</td><td>0</td><td>1</td><td>109</td><td>4,945</td><td>1</td><td>0</td><td>1</td><td>110</td><td>3,141</td><td>1</td><td>0</td><td>1</td><td>70</td> </tr> <tr> <td>T3S</td><td>3,953</td><td>1</td><td>0</td><td>1</td><td>88</td><td>4,945</td><td>1</td><td>0</td><td>1</td><td>110</td><td>4,982</td><td>1</td><td>0</td><td>1</td><td>111</td><td>3,165</td><td>1</td><td>0</td><td>1</td><td>70</td> </tr> <tr> <td>T3M</td><td>3,991</td><td>1</td><td>0</td><td>1</td><td>89</td><td>4,994</td><td>1</td><td>0</td><td>2</td><td>111</td><td>5,031</td><td>1</td><td>0</td><td>2</td><td>112</td><td>3,196</td><td>1</td><td>0</td><td>1</td><td>71</td> </tr> <tr> <td>T4M</td><td>3,971</td><td>1</td><td>0</td><td>1</td><td>88</td><td>4,967</td><td>1</td><td>0</td><td>2</td><td>110</td><td>5,005</td><td>1</td><td>0</td><td>2</td><td>111</td><td>3,179</td><td>1</td><td>0</td><td>1</td><td>71</td> </tr> <tr> <td>TF1M</td><td>3,925</td><td>1</td><td>0</td><td>2</td><td>87</td><td>4,910</td><td>1</td><td>0</td><td>2</td><td>109</td><td>4,947</td><td>1</td><td>0</td><td>2</td><td>110</td><td>3,143</td><td>1</td><td>0</td><td>1</td><td>70</td> </tr> <tr> <td>TSVS</td><td>4,095</td><td>2</td><td>0</td><td>0</td><td>91</td><td>5,122</td><td>2</td><td>0</td><td>0</td><td>114</td><td>5,161</td><td>2</td><td>0</td><td>0</td><td>115</td><td>3,278</td><td>2</td><td>0</td><td>0</td><td>73</td> </tr> <tr> <td>TSS</td><td>4,157</td><td>2</td><td>0</td><td>0</td><td>92</td><td>5,200</td><td>2</td><td>0</td><td>0</td><td>116</td><td>5,239</td><td>2</td><td>0</td><td>0</td><td>116</td><td>3,328</td><td>2</td><td>0</td><td>0</td><td>74</td> </tr> <tr> <td>TSM</td><td>4,107</td><td>3</td><td>0</td><td>1</td><td>91</td><td>5,138</td><td>3</td><td>0</td><td>1</td><td>114</td><td>5,177</td><td>3</td><td>0</td><td>1</td><td>115</td><td>3,288</td><td>2</td><td>0</td><td>1</td><td>73</td> </tr> <tr> <td>TSW</td><td>4,116</td><td>3</td><td>0</td><td>1</td><td>91</td><td>5,148</td><td>3</td><td>0</td><td>1</td><td>114</td><td>5,187</td><td>3</td><td>0</td><td>1</td><td>115</td><td>3,295</td><td>2</td><td>0</td><td>1</td><td>73</td> </tr> <tr> <td rowspan="12">1000 mA</td> <td rowspan="12">72 W</td> <td>T1S</td><td>5,387</td><td>1</td><td>0</td><td>1</td><td>75</td><td>6,739</td><td>2</td><td>0</td><td>2</td><td>94</td><td>6,790</td><td>2</td><td>0</td><td>2</td><td>94</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T2S</td><td>5,488</td><td>1</td><td>0</td><td>1</td><td>76</td><td>6,865</td><td>2</td><td>0</td><td>2</td><td>95</td><td>6,917</td><td>2</td><td>0</td><td>2</td><td>96</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T2M</td><td>5,382</td><td>1</td><td>0</td><td>2</td><td>75</td><td>6,733</td><td>2</td><td>0</td><td>2</td><td>94</td><td>6,784</td><td>2</td><td>0</td><td>2</td><td>94</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T3S</td><td>5,423</td><td>1</td><td>0</td><td>1</td><td>75</td><td>6,784</td><td>2</td><td>0</td><td>2</td><td>94</td><td>6,835</td><td>2</td><td>0</td><td>2</td><td>95</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T3M</td><td>5,475</td><td>1</td><td>0</td><td>2</td><td>76</td><td>6,850</td><td>2</td><td>0</td><td>2</td><td>95</td><td>6,901</td><td>2</td><td>0</td><td>2</td><td>96</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T4M</td><td>5,447</td><td>1</td><td>0</td><td>2</td><td>76</td><td>6,814</td><td>2</td><td>0</td><td>2</td><td>95</td><td>6,866</td><td>2</td><td>0</td><td>2</td><td>95</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TF1M</td><td>5,385</td><td>1</td><td>0</td><td>2</td><td>75</td><td>6,736</td><td>1</td><td>0</td><td>2</td><td>94</td><td>6,787</td><td>1</td><td>0</td><td>2</td><td>94</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSVS</td><td>5,617</td><td>2</td><td>0</td><td>0</td><td>78</td><td>7,027</td><td>3</td><td>0</td><td>0</td><td>98</td><td>7,080</td><td>3</td><td>0</td><td>0</td><td>98</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSS</td><td>5,702</td><td>2</td><td>0</td><td>0</td><td>79</td><td>7,133</td><td>2</td><td>0</td><td>0</td><td>99</td><td>7,187</td><td>2</td><td>0</td><td>0</td><td>100</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSM</td><td>5,634</td><td>3</td><td>0</td><td>1</td><td>78</td><td>7,048</td><td>3</td><td>0</td><td>1</td><td>98</td><td>7,101</td><td>3</td><td>0</td><td>1</td><td>99</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSW</td><td>5,646</td><td>3</td><td>0</td><td>1</td><td>78</td><td>7,063</td><td>3</td><td>0</td><td>2</td><td>98</td><td>7,116</td><td>3</td><td>0</td><td>2</td><td>99</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td rowspan="36">40C (40 LEDs)</td> <td rowspan="12">530 mA</td> <td rowspan="12">68 W</td> <td>T1S</td><td>6,093</td><td>2</td><td>0</td><td>2</td><td>90</td><td>7,622</td><td>2</td><td>0</td><td>2</td><td>112</td><td>7,679</td><td>2</td><td>0</td><td>2</td><td>113</td><td>4,878</td><td>1</td><td>0</td><td>1</td><td>72</td> </tr> <tr> <td>T2S</td><td>6,207</td><td>2</td><td>0</td><td>2</td><td>91</td><td>7,764</td><td>2</td><td>0</td><td>2</td><td>114</td><td>7,823</td><td>2</td><td>0</td><td>2</td><td>115</td><td>4,969</td><td>1</td><td>0</td><td>1</td><td>73</td> </tr> <tr> <td>T2M</td><td>6,087</td><td>2</td><td>0</td><td>2</td><td>90</td><td>7,615</td><td>2</td><td>0</td><td>2</td><td>112</td><td>7,672</td><td>2</td><td>0</td><td>2</td><td>113</td><td>4,874</td><td>1</td><td>0</td><td>1</td><td>72</td> </tr> <tr> <td>T3S</td><td>6,133</td><td>1</td><td>0</td><td>2</td><td>90</td><td>7,672</td><td>2</td><td>0</td><td>2</td><td>113</td><td>7,730</td><td>2</td><td>0</td><td>2</td><td>114</td><td>4,910</td><td>1</td><td>0</td><td>1</td><td>72</td> </tr> <tr> <td>T3M</td><td>6,193</td><td>2</td><td>0</td><td>2</td><td>91</td><td>7,747</td><td>2</td><td>0</td><td>2</td><td>114</td><td>7,805</td><td>2</td><td>0</td><td>2</td><td>115</td><td>4,958</td><td>1</td><td>0</td><td>2</td><td>73</td> </tr> <tr> <td>T4M</td><td>6,161</td><td>1</td><td>0</td><td>2</td><td>91</td><td>7,707</td><td>2</td><td>0</td><td>2</td><td>113</td><td>7,765</td><td>2</td><td>0</td><td>2</td><td>114</td><td>4,932</td><td>1</td><td>0</td><td>2</td><td>73</td> </tr> <tr> <td>TF1M</td><td>6,090</td><td>1</td><td>0</td><td>2</td><td>90</td><td>7,618</td><td>2</td><td>0</td><td>2</td><td>112</td><td>7,676</td><td>2</td><td>0</td><td>2</td><td>113</td><td>4,876</td><td>1</td><td>0</td><td>2</td><td>72</td> </tr> <tr> <td>TSVS</td><td>6,353</td><td>2</td><td>0</td><td>0</td><td>93</td><td>7,947</td><td>3</td><td>0</td><td>0</td><td>117</td><td>8,007</td><td>3</td><td>0</td><td>0</td><td>118</td><td>5,086</td><td>2</td><td>0</td><td>0</td><td>75</td> </tr> <tr> <td>TSS</td><td>6,449</td><td>2</td><td>0</td><td>0</td><td>95</td><td>8,068</td><td>3</td><td>0</td><td>1</td><td>119</td><td>8,128</td><td>3</td><td>0</td><td>1</td><td>120</td><td>5,163</td><td>2</td><td>0</td><td>0</td><td>76</td> </tr> <tr> <td>TSM</td><td>6,372</td><td>3</td><td>0</td><td>1</td><td>94</td><td>7,971</td><td>3</td><td>0</td><td>2</td><td>117</td><td>8,031</td><td>3</td><td>0</td><td>2</td><td>118</td><td>5,102</td><td>3</td><td>0</td><td>1</td><td>75</td> </tr> <tr> <td>TSW</td><td>6,385</td><td>3</td><td>0</td><td>2</td><td>94</td><td>7,988</td><td>3</td><td>0</td><td>2</td><td>117</td><td>8,048</td><td>3</td><td>0</td><td>2</td><td>118</td><td>5,112</td><td>3</td><td>0</td><td>1</td><td>75</td> </tr> <tr> <td rowspan="12">700 mA</td> <td rowspan="12">91 W</td> <td>T1S</td><td>7,752</td><td>2</td><td>0</td><td>2</td><td>85</td><td>9,697</td><td>2</td><td>0</td><td>2</td><td>107</td><td>9,770</td><td>2</td><td>0</td><td>2</td><td>107</td><td>6,206</td><td>2</td><td>0</td><td>2</td><td>68</td> </tr> <tr> <td>T2S</td><td>7,897</td><td>2</td><td>0</td><td>2</td><td>87</td><td>9,878</td><td>2</td><td>0</td><td>2</td><td>109</td><td>9,953</td><td>2</td><td>0</td><td>2</td><td>109</td><td>6,322</td><td>2</td><td>0</td><td>2</td><td>69</td> </tr> <tr> <td>T2M</td><td>7,745</td><td>2</td><td>0</td><td>2</td><td>85</td><td>9,688</td><td>2</td><td>0</td><td>2</td><td>106</td><td>9,761</td><td>2</td><td>0</td><td>2</td><td>107</td><td>6,201</td><td>2</td><td>0</td><td>2</td><td>68</td> </tr> <tr> <td>T3S</td><td>7,803</td><td>2</td><td>0</td><td>2</td><td>86</td><td>9,761</td><td>2</td><td>0</td><td>2</td><td>107</td><td>9,834</td><td>2</td><td>0</td><td>2</td><td>108</td><td>6,247</td><td>1</td><td>0</td><td>2</td><td>69</td> </tr> <tr> <td>T3M</td><td>7,879</td><td>2</td><td>0</td><td>2</td><td>87</td><td>9,856</td><td>2</td><td>0</td><td>2</td><td>108</td><td>9,930</td><td>2</td><td>0</td><td>2</td><td>109</td><td>6,308</td><td>2</td><td>0</td><td>2</td><td>69</td> </tr> <tr> <td>T4M</td><td>7,838</td><td>2</td><td>0</td><td>2</td><td>86</td><td>9,805</td><td>2</td><td>0</td><td>2</td><td>108</td><td>9,879</td><td>2</td><td>0</td><td>2</td><td>109</td><td>6,275</td><td>1</td><td>0</td><td>2</td><td>69</td> </tr> <tr> <td>TF1M</td><td>7,748</td><td>2</td><td>0</td><td>2</td><td>85</td><td>9,693</td><td>2</td><td>0</td><td>3</td><td>107</td><td>9,765</td><td>2</td><td>0</td><td>3</td><td>107</td><td>6,203</td><td>1</td><td>0</td><td>2</td><td>68</td> </tr> <tr> <td>TSVS</td><td>8,083</td><td>3</td><td>0</td><td>0</td><td>89</td><td>10,111</td><td>3</td><td>0</td><td>1</td><td>111</td><td>10,187</td><td>3</td><td>0</td><td>1</td><td>112</td><td>6,569</td><td>2</td><td>0</td><td>0</td><td>72</td> </tr> <tr> <td>TSS</td><td>8,205</td><td>3</td><td>0</td><td>1</td><td>90</td><td>10,264</td><td>3</td><td>0</td><td>1</td><td>113</td><td>10,341</td><td>3</td><td>0</td><td>1</td><td>114</td><td>6,569</td><td>2</td><td>0</td><td>0</td><td>72</td> </tr> <tr> <td>TSM</td><td>8,107</td><td>3</td><td>0</td><td>2</td><td>89</td><td>10,142</td><td>3</td><td>0</td><td>2</td><td>111</td><td>10,218</td><td>3</td><td>0</td><td>2</td><td>112</td><td>6,491</td><td>3</td><td>0</td><td>1</td><td>71</td> </tr> <tr> <td>TSW</td><td>8,124</td><td>3</td><td>0</td><td>2</td><td>89</td><td>10,163</td><td>4</td><td>0</td><td>2</td><td>112</td><td>10,239</td><td>4</td><td>0</td><td>2</td><td>113</td><td>6,504</td><td>3</td><td>0</td><td>2</td><td>71</td> </tr> <tr> <td rowspan="12">1000 mA</td> <td rowspan="12">138 W</td> <td>T1S</td><td>10,435</td><td>2</td><td>0</td><td>2</td><td>76</td><td>13,054</td><td>3</td><td>0</td><td>3</td><td>95</td><td>13,152</td><td>3</td><td>0</td><td>3</td><td>95</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T2S</td><td>10,630</td><td>2</td><td>0</td><td>2</td><td>77</td><td>13,297</td><td>3</td><td>0</td><td>3</td><td>96</td><td>13,398</td><td>3</td><td>0</td><td>3</td><td>97</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T2M</td><td>10,426</td><td>2</td><td>0</td><td>2</td><td>76</td><td>13,042</td><td>3</td><td>0</td><td>3</td><td>95</td><td>13,140</td><td>3</td><td>0</td><td>3</td><td>95</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T3S</td><td>10,503</td><td>2</td><td>0</td><td>2</td><td>76</td><td>13,139</td><td>2</td><td>0</td><td>2</td><td>95</td><td>13,238</td><td>2</td><td>0</td><td>2</td><td>96</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T3M</td><td>10,606</td><td>2</td><td>0</td><td>2</td><td>77</td><td>13,267</td><td>3</td><td>0</td><td>3</td><td>96</td><td>13,367</td><td>3</td><td>0</td><td>3</td><td>97</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>T4M</td><td>10,551</td><td>2</td><td>0</td><td>2</td><td>76</td><td>13,199</td><td>3</td><td>0</td><td>3</td><td>96</td><td>13,298</td><td>3</td><td>0</td><td>3</td><td>96</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TF1M</td><td>10,430</td><td>2</td><td>0</td><td>3</td><td>76</td><td>13,047</td><td>2</td><td>0</td><td>3</td><td>95</td><td>13,146</td><td>2</td><td>0</td><td>3</td><td>95</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSVS</td><td>10,881</td><td>3</td><td>0</td><td>1</td><td>79</td><td>13,611</td><td>3</td><td>0</td><td>1</td><td>99</td><td>13,714</td><td>4</td><td>0</td><td>1</td><td>99</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSS</td><td>11,045</td><td>3</td><td>0</td><td>1</td><td>80</td><td>13,817</td><td>3</td><td>0</td><td>1</td><td>100</td><td>13,921</td><td>3</td><td>0</td><td>1</td><td>101</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSM</td><td>10,914</td><td>4</td><td>0</td><td>2</td><td>79</td><td>13,652</td><td>4</td><td>0</td><td>2</td><td>99</td><td>13,755</td><td>4</td><td>0</td><td>2</td><td>100</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TSW</td><td>10,936</td><td>4</td><td>0</td><td>2</td><td>79</td><td>13,680</td><td>4</td><td>0</td><td>2</td><td>99</td><td>13,783</td><td>4</td><td>0</td><td>2</td><td>100</td><td></td><td></td><td></td><td></td><td></td> </tr>																				20C (20 LEDs)	530 mA	35 W	T1S	3,174	1	0	1	91	3,971	1	0	1	113	4,001	1	0	1	114	2,541	1	0	1	73	T2S	3,234	1	0	1	92	4,045	1	0	1	116	4,075	1	0	1	116	2,589	1	0	1	74	T2M	3,121	1	0	1	91	3,967	1	0	1	113	3,997	1	0	1	114	2,539	1	0	1	73	T3S	3,195	1	0	1	91	3,997	1	0	1	114	4,027	1	0	1	115	2,558	1	0	1	73	T3M	3,226	1	0	1	92	4,036	1	0	1	115	4,066	1	0	1	116	2,583	1	0	1	74	T4M	3,210	1	0	1	92	4,015	1	0	1	115	4,045	1	0	1	116	2,570	1	0	1	73	TF1M	3,173	1	0	1	91	3,969	1	0	2	113	3,999	1	0	2	114	2,540	1	0	1	73	TSVS	3,310	2	0	0	95	4,140	2	0	0	118	4,172	2	0	0	119	2,650	1	0	0	76	TSS	3,360	2	0	2	96	4,203	2	0	0	120	4,235	2	0	0	121	2,690	1	0	0	77	TSM	3,320	2	0	1	95	4,153	3	0	1	119	4,184	3	0	1	120	2,658	2	0	0	76	TSW	3,327	3	0	1	95	4,161	3	0	1	119	4,193	3	0	1	120	2,663	2	0	1	76	700 mA	45 W	T1S	3,927	1	0	1	87	4,913	1	0	1	109	4,950	1	0	1	110	3,144	1	0	1	70	T2S	4,000	1	0	1	89	5,004	1	0	1	111	5,042	1	0	1	112	3,203	1	0	1	71	T2M	3,924	1	0	1	87	4,908	1	0	1	109	4,945	1	0	1	110	3,141	1	0	1	70	T3S	3,953	1	0	1	88	4,945	1	0	1	110	4,982	1	0	1	111	3,165	1	0	1	70	T3M	3,991	1	0	1	89	4,994	1	0	2	111	5,031	1	0	2	112	3,196	1	0	1	71	T4M	3,971	1	0	1	88	4,967	1	0	2	110	5,005	1	0	2	111	3,179	1	0	1	71	TF1M	3,925	1	0	2	87	4,910	1	0	2	109	4,947	1	0	2	110	3,143	1	0	1	70	TSVS	4,095	2	0	0	91	5,122	2	0	0	114	5,161	2	0	0	115	3,278	2	0	0	73	TSS	4,157	2	0	0	92	5,200	2	0	0	116	5,239	2	0	0	116	3,328	2	0	0	74	TSM	4,107	3	0	1	91	5,138	3	0	1	114	5,177	3	0	1	115	3,288	2	0	1	73	TSW	4,116	3	0	1	91	5,148	3	0	1	114	5,187	3	0	1	115	3,295	2	0	1	73	1000 mA	72 W	T1S	5,387	1	0	1	75	6,739	2	0	2	94	6,790	2	0	2	94						T2S	5,488	1	0	1	76	6,865	2	0	2	95	6,917	2	0	2	96						T2M	5,382	1	0	2	75	6,733	2	0	2	94	6,784	2	0	2	94						T3S	5,423	1	0	1	75	6,784	2	0	2	94	6,835	2	0	2	95						T3M	5,475	1	0	2	76	6,850	2	0	2	95	6,901	2	0	2	96						T4M	5,447	1	0	2	76	6,814	2	0	2	95	6,866	2	0	2	95						TF1M	5,385	1	0	2	75	6,736	1	0	2	94	6,787	1	0	2	94						TSVS	5,617	2	0	0	78	7,027	3	0	0	98	7,080	3	0	0	98						TSS	5,702	2	0	0	79	7,133	2	0	0	99	7,187	2	0	0	100						TSM	5,634	3	0	1	78	7,048	3	0	1	98	7,101	3	0	1	99						TSW	5,646	3	0	1	78	7,063	3	0	2	98	7,116	3	0	2	99						40C (40 LEDs)	530 mA	68 W	T1S	6,093	2	0	2	90	7,622	2	0	2	112	7,679	2	0	2	113	4,878	1	0	1	72	T2S	6,207	2	0	2	91	7,764	2	0	2	114	7,823	2	0	2	115	4,969	1	0	1	73	T2M	6,087	2	0	2	90	7,615	2	0	2	112	7,672	2	0	2	113	4,874	1	0	1	72	T3S	6,133	1	0	2	90	7,672	2	0	2	113	7,730	2	0	2	114	4,910	1	0	1	72	T3M	6,193	2	0	2	91	7,747	2	0	2	114	7,805	2	0	2	115	4,958	1	0	2	73	T4M	6,161	1	0	2	91	7,707	2	0	2	113	7,765	2	0	2	114	4,932	1	0	2	73	TF1M	6,090	1	0	2	90	7,618	2	0	2	112	7,676	2	0	2	113	4,876	1	0	2	72	TSVS	6,353	2	0	0	93	7,947	3	0	0	117	8,007	3	0	0	118	5,086	2	0	0	75	TSS	6,449	2	0	0	95	8,068	3	0	1	119	8,128	3	0	1	120	5,163	2	0	0	76	TSM	6,372	3	0	1	94	7,971	3	0	2	117	8,031	3	0	2	118	5,102	3	0	1	75	TSW	6,385	3	0	2	94	7,988	3	0	2	117	8,048	3	0	2	118	5,112	3	0	1	75	700 mA	91 W	T1S	7,752	2	0	2	85	9,697	2	0	2	107	9,770	2	0	2	107	6,206	2	0	2	68	T2S	7,897	2	0	2	87	9,878	2	0	2	109	9,953	2	0	2	109	6,322	2	0	2	69	T2M	7,745	2	0	2	85	9,688	2	0	2	106	9,761	2	0	2	107	6,201	2	0	2	68	T3S	7,803	2	0	2	86	9,761	2	0	2	107	9,834	2	0	2	108	6,247	1	0	2	69	T3M	7,879	2	0	2	87	9,856	2	0	2	108	9,930	2	0	2	109	6,308	2	0	2	69	T4M	7,838	2	0	2	86	9,805	2	0	2	108	9,879	2	0	2	109	6,275	1	0	2	69	TF1M	7,748	2	0	2	85	9,693	2	0	3	107	9,765	2	0	3	107	6,203	1	0	2	68	TSVS	8,083	3	0	0	89	10,111	3	0	1	111	10,187	3	0	1	112	6,569	2	0	0	72	TSS	8,205	3	0	1	90	10,264	3	0	1	113	10,341	3	0	1	114	6,569	2	0	0	72	TSM	8,107	3	0	2	89	10,142	3	0	2	111	10,218	3	0	2	112	6,491	3	0	1	71	TSW	8,124	3	0	2	89	10,163	4	0	2	112	10,239	4	0	2	113	6,504	3	0	2	71	1000 mA	138 W	T1S	10,435	2	0	2	76	13,054	3	0	3	95	13,152	3	0	3	95						T2S	10,630	2	0	2	77	13,297	3	0	3	96	13,398	3	0	3	97						T2M	10,426	2	0	2	76	13,042	3	0	3	95	13,140	3	0	3	95						T3S	10,503	2	0	2	76	13,139	2	0	2	95	13,238	2	0	2	96						T3M	10,606	2	0	2	77	13,267	3	0	3	96	13,367	3	0	3	97						T4M	10,551	2	0	2	76	13,199	3	0	3	96	13,298	3	0	3	96						TF1M	10,430	2	0	3	76	13,047	2	0	3	95	13,146	2	0	3	95						TSVS	10,881	3	0	1	79	13,611	3	0	1	99	13,714	4	0	1	99						TSS	11,045	3	0	1	80	13,817	3	0	1	100	13,921	3	0	1	101						TSM	10,914	4	0	2	79	13,652	4	0	2	99	13,755	4	0	2	100						TSW	10,936	4	0	2	79	13,680	4	0	2	99	13,783	4	0	2	100	
20C (20 LEDs)	530 mA	35 W	T1S	3,174	1	0	1	91	3,971	1	0	1	113	4,001	1	0	1	114	2,541	1	0	1	73																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			T2S	3,234	1	0	1	92	4,045	1	0	1	116	4,075	1	0	1	116	2,589	1	0	1	74																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			T2M	3,121	1	0	1	91	3,967	1	0	1	113	3,997	1	0	1	114	2,539	1	0	1	73																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			T3S	3,195	1	0	1	91	3,997	1	0	1	114	4,027	1	0	1	115	2,558	1	0	1	73																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			T3M	3,226	1	0	1	92	4,036	1	0	1	115	4,066	1	0	1	116	2,583	1	0	1	74																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			T4M	3,210	1	0	1	92	4,015	1	0	1	115	4,045	1	0	1	116	2,570	1	0	1	73																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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T3M	6,193	2				0	2	91	7,747	2	0	2	114	7,805	2	0	2	115	4,958	1	0	2	73																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
T4M	6,161	1				0	2	91	7,707	2	0	2	113	7,765	2	0	2	114	4,932	1	0	2	73																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
TF1M	6,090	1				0	2	90	7,618	2	0	2	112	7,676	2	0	2	113	4,876	1	0	2	72																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
TSVS	6,353	2				0	0	93	7,947	3	0	0	117	8,007	3	0	0	118	5,086	2	0	0	75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
TSS	6,449	2				0	0	95	8,068	3	0	1	119	8,128	3	0	1	120	5,163	2	0	0	76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
TSM	6,372	3				0	1	94	7,971	3	0	2	117	8,031	3	0	2	118	5,102	3	0	1	75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
TSW	6,385	3				0	2	94	7,988	3	0	2	117	8,048	3	0	2	118	5,112	3	0	1	75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
700 mA	91 W	T1S				7,752	2	0	2	85	9,697	2	0	2	107	9,770	2	0	2	107	6,206	2	0	2	68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		T2S		7,897	2	0	2	87	9,878	2	0	2	109	9,953	2	0	2	109	6,322	2	0	2	69																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		T2M		7,745	2	0	2	85	9,688	2	0	2	106	9,761	2	0	2	107	6,201	2	0	2	68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		T3S		7,803	2	0	2	86	9,761	2	0	2	107	9,834	2	0	2	108	6,247	1	0	2	69																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		T3M		7,879	2	0	2	87	9,856	2	0	2	108	9,930	2	0	2	109	6,308	2	0	2	69																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		T4M		7,838	2	0	2	86	9,805	2	0	2	108	9,879	2	0	2	109	6,275	1	0	2	69																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		TF1M		7,748	2	0	2	85	9,693	2	0	3	107	9,765	2	0	3	107	6,203	1	0	2	68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		TSVS		8,083	3	0	0	89	10,111	3	0	1	111	10,187	3	0	1	112	6,569	2	0	0	72																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		TSS		8,205	3	0	1	90	10,264	3	0	1	113	10,341	3	0	1	114	6,569	2	0	0	72																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		TSM		8,107	3	0	2	89	10,142	3	0	2	111	10,218	3	0	2	112	6,491	3	0	1	71																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		TSW		8,124	3	0	2	89	10,163	4	0	2	112	10,239	4	0	2	113	6,504	3	0	2	71																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		1000 mA		138 W	T1S	10,435	2	0	2	76	13,054	3	0	3	95	13,152	3	0	3	95																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
T2S	10,630				2	0	2	77	13,297	3	0	3	96	13,398	3	0	3	97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
T2M	10,426				2	0	2	76	13,042	3	0	3	95	13,140	3	0	3	95																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
T3S	10,503				2	0	2	76	13,139	2	0	2	95	13,238	2	0	2	96																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
T3M	10,606				2	0	2	77	13,267	3	0	3	96	13,367	3	0	3	97																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
T4M	10,551				2	0	2	76	13,199	3	0	3	96	13,298	3	0	3	96																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
TF1M	10,430				2	0	3	76	13,047	2	0	3	95	13,146	2	0	3	95																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
TSVS	10,881				3	0	1	79	13,611	3	0	1	99	13,714	4	0	1	99																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
TSS	11,045				3	0	1	80	13,817	3	0	1	100	13,921	3	0	1	101																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
TSM	10,914				4	0	2	79	13,652	4	0	2	99	13,755	4	0	2	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
TSW	10,936				4	0	2	79	13,680	4	0	2	99	13,783	4	0	2	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									



Performance Data

L90 and R90 Rotated Optics

LEDs	Drive Current (mA)	System Watts	Box Type	30K (3000 K, 70 CRI)				40K (4000 K, 70 CRI)				50K (5000 K, 70 CRI)				AMBTC (Amber Phosphor Converted)							
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
				<p>30C (30 LEDs)</p> <p>530 mA 52 W</p> <p>T1S 4,797 2 0 2 92 6,001 2 0 2 115 6,046 2 0 2 116 3,841 2 0 2 74</p> <p>T2S 4,887 2 0 2 94 6,113 2 0 2 118 6,159 3 0 3 118 3,912 2 0 2 75</p> <p>T2M 4,793 2 0 2 92 5,996 3 0 3 115 6,041 3 0 3 116 3,837 2 0 2 74</p> <p>T3S 4,829 2 0 2 93 6,041 3 0 3 116 6,086 3 0 3 117 3,866 2 0 2 74</p> <p>T3M 4,876 3 0 3 94 6,099 3 0 3 117 6,145 3 0 3 118 3,904 2 0 2 75</p> <p>T4M 4,851 3 0 3 93 6,068 3 0 3 117 6,114 3 0 3 118 3,884 2 0 2 75</p> <p>TFTM 4,795 3 0 3 92 5,998 3 0 3 115 6,043 3 0 3 116 3,839 2 0 2 74</p> <p>TSVS 5,002 2 0 0 96 6,258 2 0 0 120 6,305 2 0 0 121 4,005 2 0 0 77</p> <p>T5S 5,078 2 0 0 98 6,352 2 0 0 122 6,400 2 0 0 123 4,065 2 0 0 78</p> <p>T5M 5,017 3 0 1 96 6,276 3 0 1 121 6,324 3 0 1 122 4,017 2 0 1 77</p> <p>T5W 5,028 3 0 1 97 6,289 3 0 2 121 6,337 3 0 2 122 4,025 3 0 1 77</p> <p>700 mA 70 W</p> <p>T1S 5,975 2 0 2 85 7,474 3 0 3 107 7,530 3 0 3 108 4,783 2 0 2 68</p> <p>T2S 6,086 2 0 2 87 7,614 3 0 3 109 7,671 3 0 3 110 4,873 2 0 2 70</p> <p>T2M 5,969 3 0 3 85 7,467 3 0 3 107 7,524 3 0 3 107 4,779 2 0 2 68</p> <p>T3S 6,014 3 0 3 86 7,523 3 0 3 107 7,580 3 0 3 108 4,815 2 0 2 69</p> <p>T3M 6,072 3 0 3 87 7,596 3 0 3 109 7,654 3 0 3 109 4,862 3 0 3 69</p> <p>T4M 6,041 3 0 3 86 7,557 3 0 3 108 7,614 3 0 3 109 4,837 3 0 3 69</p> <p>TFTM 5,972 3 0 3 85 7,471 3 0 3 107 7,527 3 0 3 108 4,781 3 0 3 68</p> <p>TSVS 6,230 2 0 0 89 7,793 3 0 0 111 7,852 3 0 0 112 4,988 2 0 0 71</p> <p>T5S 6,324 2 0 0 90 7,911 3 0 1 113 7,971 3 0 1 114 5,063 2 0 0 72</p> <p>T5M 6,249 3 0 1 89 7,817 3 0 2 112 7,876 3 0 2 113 5,003 3 0 1 71</p> <p>T5W 6,262 3 0 2 89 7,833 3 0 2 112 7,892 3 0 2 113 5,013 3 0 1 72</p> <p>1000 mA 104 W</p> <p>T1S 7,956 3 0 3 76 9,952 3 0 3 96 10,027 3 0 3 96</p> <p>T2S 8,104 3 0 3 78 10,138 3 0 3 97 10,214 3 0 3 98</p> <p>T2M 7,949 3 0 3 76 9,943 3 0 3 96 10,018 3 0 3 96</p> <p>T3S 8,008 3 0 3 77 10,018 3 0 3 96 10,093 3 0 3 97</p> <p>T3M 8,086 3 0 3 78 10,115 4 0 4 97 10,191 4 0 4 98</p> <p>T4M 8,044 3 0 3 77 10,063 3 0 3 97 10,139 3 0 3 97</p> <p>TFTM 7,952 3 0 3 76 9,948 3 0 3 96 10,022 4 0 4 96</p> <p>TSVS 8,296 3 0 0 80 10,377 3 0 1 100 10,455 3 0 1 101</p> <p>T5S 8,421 3 0 1 81 10,534 3 0 1 101 10,613 3 0 1 102</p> <p>T5M 8,321 3 0 2 80 10,409 4 0 2 100 10,487 4 0 2 101</p> <p>T5W 8,338 4 0 2 80 10,430 4 0 2 100 10,509 4 0 2 101</p>																			

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.8 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 4000 K (70 minimum CRI) or optional 3000 K (80 minimum CRI) or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L90/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of

100,000 hours with <1% failure rate. Easily serviceable 10kV or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern. Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Full warranty terms located at: www.lithonia.com/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





WST LED

Architectural Wall Sconce



Catalog Number **WST LED 1 10A700/30K SR3**

Notes **MVOLT SF DBLXD**

Type **B**

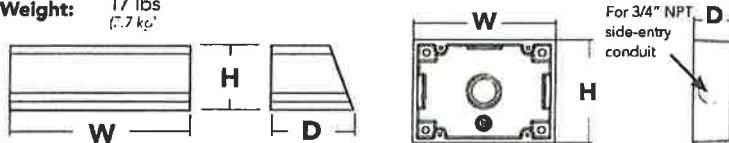
Inverted available with WLU option only.

Specifications Luminaire

Height: 7-1/4" (18.4 cm.)
Width: 16-1/4" (41.3 cm)
Depth: 9-1/8" (23.2 cm)
Weight: 17 lbs (7.7 kg)

Optional Back Box (BBW)

Height: 4" (10.2 cm)
Width: 5-1/2" (14.0 cm)
Depth: 1-1/2" (3.8 cm)



Introduction

The classic Architectural Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 75% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity.

The WST LED is ideal for replacing existing 50 – 175W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Ordering Information

EXAMPLE: WST LED 2 10A700/40K SR3 MVOLT DDBTXD

WST LED

Series	Light Engines	Performance Package	Distribution	Voltage	Mounting	Options ¹	Finish (required)
WST LED	1 One engine (10 LEDs)	700 mA options: 10A700/30K 3000K	SR2 Type II	MVOLT¹ 120 ¹	Shipped included (blank) Surface mount	Shipped installed PE Photoelectric cell, button type ^{4,5}	DBLXD Black
	2 Two engines (20 LEDs)	10A700/40K 4000K 10A700/50K 5000K	SR3 Type III SR4 Type IV	208 ¹ 240 ¹ 277 ¹ 347 480	Shipped separately² BBW Surface-mounted back box UTS Upright 5 degrees	SF Single fuse (120, 277, 347V) ⁴ DF Double fuse (208, 240, 480V) ⁴ DMG 0-10V dimming driver (no controls) ELCW Emergency battery backup ⁶ WLU Wet location door for up orientation ⁷ PIR Motion/ambient light sensor ⁸	DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone
						Shipped separately VG Vandal guard WG Wire guard	

Emergency Battery Operation

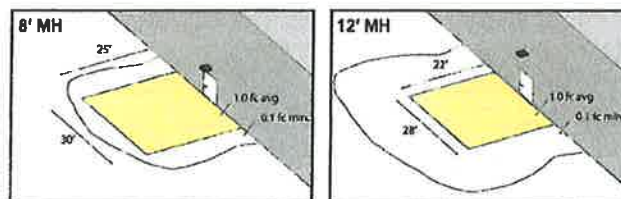
The emergency battery backup (ELCW option) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All ELCW configurations include an independent secondary driver with an integral relay to immediately detect AC power loss. Dual light engines are wired in parallel so both engines operate in emergency mode and provide additional component redundancy. These design features meet various interpretations of NFPA 70-NEC 2016 700.16.

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples at right show illuminance of 1 fc average and 0.1 fc minimum of the single-engine Type IV product in emergency mode.

WST LED 1 10A700/40K SR4 MVOLT ELCW
 10' x 10' Gridlines
 8' and 12' Mounting Height



NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with photocell (PE option) or fusing (SF, DF options).
- May also be ordered separately as an accessory. Ex: WSBW DDBXD U. Must specify finish.
- Must be ordered with fixture; cannot be field installed.
- Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Not available with 480V option. Not available with motion/ambient light sensor (PIR).
- Integral battery pack is rated for -20° to 60°C operating temperature. ELCW warranty is 3-year period. Not available with 347V or 480V. Not available with WLU.
- WLU not available with PIR or ELCW.
- Specifies the type of Switch SFOD 7-OD? control (photocell included); see Motion Sensor Guide for details. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with WLU, VG or WG.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Light Engines	Drive Current (mA)	Performance Package	System Watts (MVOLT) ¹	Die Type	40K (4000K, 70 CRI)				
					Normalized Lumens	U	V	W	LPW
1 (10 LEDs)	700	10A700/-K	24W	SR2	2,005	1	0	1	84
				SR3	2,029	1	0	1	84
				SR4	1,959	1	0	1	82
2 (20 LEDs)	700	10A700/-K	47W	SR2	3,944	1	0	1	84
				SR3	4,028	1	0	1	86
				SR4	3,851	1	0	1	82

¹ See electrical load chart for 347/480V system watts.

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C / 32°F	1.10
10°C / 50°F	1.06
20°C / 68°F	1.02
25°C / 77°F	1.00
30°C / 86°F	0.98
40°C / 104°F	0.92

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the WST LED 2 10A700 platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LMF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.88	0.77

Electrical Load

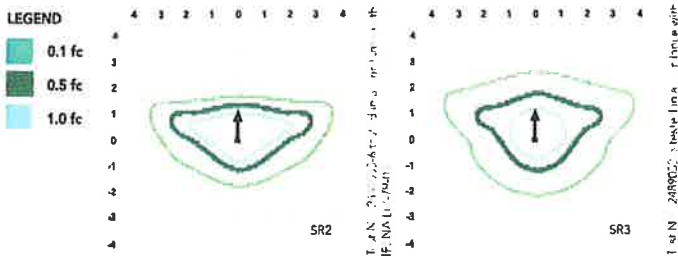
Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
1	700	24W	0.24	0.14	0.12	0.1	-	-
		29W ¹	-	-	-	-	0.09	0.07
2	700	47W	0.44	0.27	0.23	0.20	-	-
		53W ¹	-	-	-	-	0.17	0.12

¹ Higher wattage is due to electrical losses from step-down transformer.

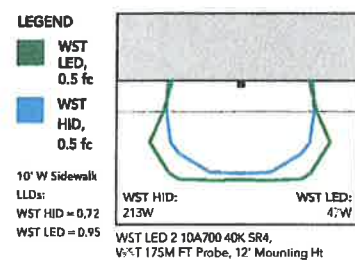
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

Isocandela plots for the WST LED 2 10A700/40K SR2, SR3, and SR4. Distances are in units of mounting height (12').



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L77). Class 2 electronic driver has a power factor > 90%, THD < 20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option offers wet location listing in "up" orientation. Rated for -30°C minimum ambient.

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WARRANTY

Five year limited warranty. Full warranty terms located at www.lithonia.com.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





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