VII.C.

City of Chesterfield

690 Chesterfield Pkwy W ● Chesterfield MO 63017-0760
Phone: 636-537-4000 ● Fax 636-537-4798 ● www.chesterfield.mo.us

Planning Commission Staff Report

Project Type: Site Development Section Plan

Meeting Date: December 9, 2019

From: Chris Dietz, Planner

Location: North of Chesterfield Airport Road, east of its intersection with Chesterfield Commons Drive and abutting Interstate 64.

Applicant: Core States Group

Description: **Kemp Auto Museum, Lot B (Chase):** A Site Development Section Plan, Landscape Plan, Architectural Elevations and Architect's Statement of Design for a 1.03-acre tract of land zoned "PC" Planned Commercial District located north of Chesterfield Airport Road, east of its intersection with Chesterfield Commons Drive.

PROPOSAL SUMMARY

This request is for the development of Lot B of the Kemp Auto Museum subdivision, including a proposed 3,470 square-foot financial institution with a detached drive-thru ATM. The subject site is zoned "PC" Planned Commercial District and is governed under City of Chesterfield Ordinance 2911.

On November 14, 2019, the Architectural Review Board reviewed this project and made a motion to forward it on to Planning Commission with a recommendation for Approval by a vote of 6-0, with the following Condition:

- *Staff coordinate with the applicant to ensure that the ground-mounted utilities will be fully landscaped.*

The applicant has since addressed the condition by adding landscaping around the transformer box to screen it from view. This improvement is demonstrated on the landscape plan in the attached submittal packet.

HISTORY OF SUBJECT SITE

Recently, the City of Chesterfield approved Ordinance 2911 on September 7, 2016 which rezoned the property from "PC/MAA" Planned Commercial District with a Museum and Arts Overlay District to a new "PC" Planned Commercial District. In June 2017 the Site Development Concept Plan was approved for the Kemp Auto Museum subdivision, which included two (2) lots: Lot A currently serves as an auto dealership (Tesla), and Lot B—the subject site of this proposal. Table 1 provides an overview of the property's zoning history and use over time.

Year	Zoning Change	Ord.	Land Use
1974	"FP NU" Floodplain Non-Urban to "FP M3" Floodplain Planned Industrial	SLC 7014	Industrial
2002	"NU" Floodplain Non-Urban and "M3" Planned Industrial combined into single "PC" Planned Commercial District	#1902	Auto Museum
2004	"MAA" Museum & Arts Overlay District added to "PC" Planned Commercial District	#2116	Auto Museum
2016	"PC/MAA" Planned Commercial District with Museum & Arts Overlay District to a new "PC" Planned Commercial District.	#2911	Auto Dealership (Tesla)

Table 1: *Zoning History*

Comprehensive Plan Analysis

The site is designated as Mixed Commercial Use development in the City's Land Use Map which includes retail, low-density office and limited office/Warehouse Facilities. The proposed use is compatible with this land use designation.

The following Chesterfield Design Polices also apply, as set forth in the City's Comprehensive Plan:

- **Chesterfield Valley Design Policy #1 – Facades of Buildings Along I-64:** Any portion of a building that can be viewed from I-64/US 40 or any arterial and collector roadways should convey the image of a high-quality office or commercial development and should be equally uniform in materials and attractiveness as the primary facade of the building if it does not face I-64/US 40 or the roadways. The intent is to avoid projects having their view from I-64/US 40 or the roadways appear to be the rear or side of a development.

- **Chesterfield Valley Design Policy #2 – Lighting of Buildings Along I-64/US 40:** The facades of buildings facing I-64/US 40 should be lighted to provide an attractive image at night for individuals traveling along I-64/US 40.

- **Chesterfield Valley Design Policy #4 – Vehicular Parking Along I-64:** Parking should be located "primarily to the side or rear of any building facade facing I-64/US 40 or along North Outer 40." All of the proposed parking spaces are located on the northern side of the building, south of the access drive. Accessible parking is located near the front entrance on the north side of the site.

- **Chesterfield Valley Design Policy #6 – Pedestrian Circulation:** Each development is required to address pedestrian circulation within and between all developments. This pedestrian system shall be designed in an overall safe, clearly understood plan meeting ADA (American Disabilities Act) requirements.

STAFF ANALYSIS

Floor Area and Height Requirements

This site is governed by Ordinance 2911, which establishes that the density and maximum height requirements for this development. This request is to allow for the development of a 3,470 square foot mixed-use building on Lot B, which totals 1.03 acres. The maximum Floor Area Ratio (F.A.R.) established by Ordinance 2911 for this site is 0.55, with the proposed development having only 0.08 F.A.R. Additionally, the site complies with the minimum 35% Open Space requirement, totaling 51.8%. Ordinance 2911 also states that the height of any building for this development shall be no greater than 40 feet. The proposed bank building would have a maximum height of 26'5" and thus complies with this requirement.

Site Circulation and Access

The site is served by an existing private access drive running east-to-west through the northern edge of the site that continues through Lot A of this subdivision (Tesla) and then connects to the intersection of Chesterfield Commons East Drive and Chesterfield Airport Road. This development would be served by two (2) access points along the southern end of this private road with two-way traffic circulating through each access point. Pedestrian access and bicycle parking facilities allow for alternative access to the interior of the site from Chesterfield Airport Rd. A stand-alone drive-thru ATM would be located at the east access point with one lane which terminates by merging with exit traffic leaving the building's parking area. Stacking for the ATM has been included on the site development section plan and meets minimum stacking requirements as defined in the Unified Development Code (UDC).

Parking
UDC parking regulations state that financial institutions require 3.3 stalls per 1,000 square feet of floor area. 120% of this parking requirement may be approved by the Planning Director, totaling 13 stalls for this site. However, the applicant is requesting 20 stalls, or a 74% increase. Such requests shall be subject to the review and approval of the Planning Commission, and require measures by the applicant to mitigate the increase in parking area. Such measures may include, but are not limited to:

- Increased open space
- Pervious pavements
- Green roofs
- Cool pavement materials
- Structured parking
- Native vegetation

The applicant has attempted to mitigate this modification in parking allowance by increasing the amount of deciduous trees to be planted in the parking area and to the north of the access drive.

Additionally, a parking demand study may be submitted to the City of Chesterfield for consideration, which the applicant has provided. This parking demand study is included in the submittal packet.

Landscape Design
All landscaping for this site complies with UDC requirements, which include a 30' landscape buffer along Chesterfield Airport Road and I-64. Landscaping has also been provided around the proposed location of a freestanding monument sign and along all sidewalks within the site.

Architectural Elevations
All projects should address the following building requirements: Scale, Design, Materials, Colors, Landscape, Screening, and Lighting. The scale of the building and parking area correlate to the compact size of the site with the structure itself oriented toward Chesterfield Airport Road with the north elevation facing the parking area serving as the main entrance. Additionally, a stand-alone drive-thru ATM structure is to be located on the eastern end of the parking area. The massing of the building is broken up horizontally with reliefs and cornices found consistently on each side of the building. Both north and south elevations feature a metal canopy/trim painted blue above the main entrance and large window area, respectively. An opportunity for recycling will be provided as well. A small portion in the northwest corner abutting Interstate 64 will be utilized as a landscape area only, with additional evergreen plantings enhancing the wooded area already existing in this location.

Lighting
The plan includes both utilitarian and architectural lighting—all of which complies with the regulations set forth in the Unified Development Code. Lighting fixtures include two (2) recessed canopy lighting fixtures underneath the ATM canopy, three (3) downlighting fixtures beneath each of the main building's north and south elevations' canopies and one (1) light fixture above a secondary exit on the south elevation. Utilitarian lighting is utilized throughout the parking area and pedestrian walkway, with a streetlight using a similar fixture along chesterfield airport Road. The specifications for each of these fixtures is found in the submittal packet.

Figure 2: *North Elevation as seen by vehicles traveling east on I-64.*

Figure 3: *South Elevation as seen by vehicles traveling west on Chesterfield Airport Rd.*

DEPARTMENT INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for this proposal and has found all components of such to comply with the site-specific ordinance, Comprehensive Plan, and Unified Development Code requirements. Staff recommends approval of this request for Kemp Auto Museum, Lot B.

MOTION

The following options are provided to the Planning Commission for consideration relative to this application:

1) "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Kemp Auto Museum, Lot B, as presented."

2) "I move to approve the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Kemp Auto Museum, Lot B, with the following conditions..."

Attachments: Site Development Section Plan Submittal Packet

engineering
architecture
project management
construction management
permitting
development services

CORE STATES GROUP

November 20, 2019

City of Chesterfield, MO
690 Chesterfield Pkwy W
Chesterfield, MO 63017

Re:Chase Bank, Chesterfield MO
16897 Chesterfield Airport Rd.
Core States Group – **Architect's Statement of Design Intent - Revised**

To who it may concern,

Regarding the proposed Chase Bank on Chesterfield Airport Rd., the design requirements for development in Chesterfield Valley are being addressed with a combination of design features, finish materials, and scale/massing proportions. Stone, brick, projecting cornice details and fenestration patterns, are compatible in scale to the materials. Massing, proportion and rhythm of the building, relief planes and finishes from the front elevation, are repeated on the side and rear elevations of the building.

Primarily a 3-part façade, a central entrance form and two prominent ends are connected by smaller building insets, with the general feeling of symmetry and balance, without being symmetrical. Each narrower building end has a central inset or projecting element for similar 3-part rhythm. The entrance has anodized aluminum storefront, glass and a projecting metal canopy which are repeated on the opposite side of the central mass for consistency, along with similar fenestration and accents from the flanking masses being carried around the building corners. A stone base, center brick wall, and upper EIFS walls with relief banding are layered vertically for a consistent appearance on all elevations, and a natural progression from heaviest up through lighter materials. A hip roof 'tower element' adorns the Chesterfield Airport Road façade above a large window, inviting views through the building to the entrance from the northern parking area.

A Chase standard bicycle rack is located near the entrance, at the northwest corner of the building, satisfying the design need for bicycle accommodation equipment.

In further compliance with the special design requirements for Chesterfield Valley, the trash enclosure is screened by evergreen trees, and its design complements the main building, using similar materials. Three sides of the enclosure are designed with solid

walls in stone and brick, with cap details borrowed from the main building. The gates are composed of solid slats in complementary colors. Further screening is not required, as there are no loading areas and no outdoor storage of goods, materials, nor automobiles for sale. Chase operations includes shred bins in the project, which offer the opportunity for recycling.

As a new site development, all utilities and building services are planned as underground connections. Parking is positioned to the west and north side of the building. The parking lot has been positioned over 140 feet away from the I-64 right of way on the opposite side of the access roadway serving this property. Also, all the existing trees to the north of this access roadway are to remain in place. Additional trees will be planted around the perimeter of the parking area.

The main parking and side lot are screened from Chesterfield Airport Road, where the view includes the hip roof 'tower' as a primary architectural feature. The main parking area facing I-64/US-40 is carefully integrated with the building entrance, drive-up ATM approach and traffic flow, given the narrow east-west dimensions that restrict the small site. There are no loading areas to screen and the site landscaping design, including tree retention along the I-64/US-40 right of way, is complimentary to the integrated site layout.

Core States Group has positioned the building, drive, parking and site service elements as a coordinated design to best balance the specific design requirements for Development in Chesterfield Valley. This will provide a functioning business that will serve the community and enhance the quality of life in Chesterfield as the City of Choice in the St. Louis Region.

Sincerely,

R. Bruce LaSurs, AIA
Senior Project Architect
Core States Group Inc.

DeLong
Landscape Architecture, LLC

7620 West Bruno Ave
St. Louis, MO 63117
Phone: 314-346-4856
delong.la@gmail.com

June 11, 2019

Mr. Randy Mardis
Landscape Technologies, LLC
67 Jacobs Creek Drive
ST. Charles, MO. 63304

Re: Chase Bank, 16985 Chesterfield Airport Rd.

Dear Mr. Mardis:

I preformed a site visit on above date and have determined that there are no woodlands on this site. There are several landscape trees with a total canopy of 3,541 sf.

It is our opinion that a Tree Stand Delineation Plan is not required for this site and that this letter meets that requirement.

Respectfully,

DeLong Landscape Architecture, LLC

Douglas A. DeLong
Member

KEMP AUTO MUSEUM, LOT B SITE DEVELOPMENT SECTION PLAN FOR CHASE

16985 CHESTERFIELD AIRPORT ROAD
CHESTERFIELD, MO 63055
ST. LOUIS COUNTY, MO

DESIGN AND DEVELOPMENT CONTACTS:

OWNER:	CAPALCO NINETEEN, INC. 11850 STUDY AVENUE. ST. LOUIS, MO 63141 CONTACT: PATRICK CUNNINGHAM TEL: (314) 991-8900
DEVELOPER:	JP MORGAN CHASE 10 SOUTH DEARBORN, 5TH FLOOR CHICAGO, IL 60603 CONTACT: CHRIS FOIT TEL: (312) 325-3388
CIVIL ENGINEER/APPLICANT:	CORE STATES GROUP 6500 CHIPPEWA STREET SUITE 200 ST. LOUIS, MO 63109 CONTACT: PATRICK BENNETT, P.E. TEL: (314) 843-4320
ARCHITECT:	CORE STATES GROUP 201 S. MAPLE AVENUE, SUITE 300 AMBLER, PA 19002 CONTACT: KENNETH MACKENZIE, AIA TEL: (267) 464-8055
SURVEYOR:	GATEWAY LAND SERVICES, INC 9378 OLIVE BOULEVARD ST. LOUIS, MO 63132 CONTACT: JAMES DEGENHARDT, PLS TEL: (314) 881-9556

GOVERNING AGENCIES CONTACTS:

PLANNING AND ZONING: DEVELOPMENT SERVICES	CHESTERFIELD PLANNING AND 690 CHESTERFIELD PARKWAY WEST CHESTERFIELD, MO 63017 CONTACT: JOSEPH KNIGHTS TEL: (314) 622-3666
BUILDING DEPARTMENT:	ST. LOUIS COUNTY PUBLIC WORKS 74 CLARKSON WILSON CENTER CHESTERFIELD, MO 63017 CONTACT: DWAYNE EMANUAL TEL: (314) 615-5485
FIRE AUTHORITY:	MONARCH FIRE PROTECTION DISTRICT 13725 OLIVE BOULEVARD CHESTERFIELD, MO 63017 CONTACT: ROGER HERIN TEL: (314) 533-3406
TRAFFIC: DEPARTMENT	ST. LOUIS COUNTY TRANSPORTATION 1095 N. LINDBERGH BOULEVARD ST. LOUIS, MO 63132 CONTACT: DANIEL W. DREISEWERD, P.E. TEL: (314) 615-8504

UTILITY CONTACTS:

ELECTRIC COMPANY:	AMEREN MISSOURI 1901 CHOUTEAU AVENUE ST. LOUIS, MO 63103 TEL: (314) 342-1111
WATER:	MISSOURI AMERICAN WATER 727 CRAIG ROAD ST. LOUIS, MO 63141 TEL: (866) 430-0820
SANITARY/STORM SEWER:	METROPOLITAN ST. LOUIS SEWER DISTRICT 2350 MARKET STREET ST. LOUIS, MO 63103 CONTACT: SCOTT KAPPELMANN TEL: (314) 768-6371
GAS:	SPIRE 4118 SHREWSBURY AVENUE SHREWSBURY, MO 63119 CONTACT: KELI GRAHAM TEL: (314) 575-0155
TELEPHONE / INTERNET:	AT&T 3106 S. GRAND BOULEVARD ST. LOUIS, MO 63118 TEL: (844) 723-0252

FLOOD NOTE:

THE MAJORITY OF THIS PROPERTY IS LOCATED WITHIN FLOOD ZONE 'X', AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN DUE TO LEVEE, AS SHOWN ON THE FEMA FIRM (FLOOD INSURANCE RATE MAP) 29189C0165K, DATE FEBRUARY 4, 2015. A PORTION OF THE NORTHWEST CORNER OF THE LOT IS WITHIN ZONE 'AH' AS SHOWN ON THE SURVEY.

ALERT TO CONTRACTOR:

1. THE SITE WORK FOR THE PROPOSED DEVELOPMENT SHALL MEET OR EXCEED ALL CITY AND/OR COUNTY AND STATE STANDARDS FOR SITE WORK.
2. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PREFORMED PRIOR TO PROJECT COMPLETION.

DEPARTMENT OF PLANNING AND DEVELOPMENT SERVICES

SCRIPT FOR A SITE DEVELOPMENT PLAN

SURVEYED DESCRIPTION OF ADJUSTED PARCEL 1:
A TRACT OF LAND BEING PART OF C800 OF "KEMP AUTOMOBILE MUSEUM SUBDIVISION" A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 351 PAGES 824 AND 825 OF THE ST. LOUIS COUNTY RECORDS, IN U.S. SURVEY 2031, TOWNSHIP 45 NORTH - RANGE 4 EAST, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHWEST CORNER OF SAID C800, SAID POINT BEING ON THE SOUTH RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY 64, VARYING WIDTH; THENCE EASTWARDLY ALONG THE NORTH LINE OF SAID C800 SOUTH 84 DEGREES 07 MINUTES 33 SECONDS EAST 70.05 FEET TO A POINT; THENCE LEAVING SAID SOUTH RIGHT-OF-WAY LINE THE FOLLOWING COURSES AND DISTANCES: SOUTH 00 DEGREES 00 MINUTES 39 SECONDS EAST 97.59 FEET, NORTH 66 DEGREES 41 MINUTES 06 SECONDS EAST 113.36 FEET AND SOUTH 00 DEGREES 00 MINUTES 39 SECONDS EAST 243.90 FEET TO A POINT IN THE NORTH RIGHT-OF-WAY LINE OF CHESTERFIELD AIRPORT ROAD, 100 FEET WIDE; THENCE WESTWARDLY ALONG SAID NORTH RIGHT-OF-WAY LINE SOUTH 89 DEGREES 34 MINUTES 27 SECONDS WEST 170.34 FEET TO THE SOUTHWEST CORNER OF AFOREMENTIONED C800; THENCE NORTHWARDLY ALONG THE WEST LINE OF SAID C800 THE FOLLOWING COURSES AND DISTANCES: NORTH 12 DEGREES 43 MINUTES 19 SECONDS WEST 26.61 FEET, NORTH 02 DEGREES 09 MINUTES 33 SECONDS WEST 84.73 FEET AND NORTH 01 DEGREES 37 MINUTES 53 SECONDS EAST 194.51 FEET TO THE POINT OF BEGINNING AND CONTAINING 1.032 ACRES, MORE OR LESS.

CAPLACO NINETEEN, INC. the owner(s) of the property shown on this plan for and in consideration of being granted approval of said plan to develop property under the provisions of Section 31-03-04-C, PC-PLANNED COMMERCIAL DISTRICT of City of Chesterfield Unified Development Code, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the City of Chesterfield, or voided or vacated by order of ordinance of the City of Chesterfield Council.

(Signature): ____________________

(Name Typed): ____________________

State of ________________)
) SS.
County of ________________)

On this ______ day of ________________, A.D., 20___, before me personally appeared ________________________, to me known, who, being by me sworn in, did say ________________ (Officer of Corporation) that he/she is the ________________ (Title) of ________________ (Name of Corporation) a corporation in the State of ____________, and that the seal affixed to the foregoing instruments is the corporate seal of said corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and the said ________________ (Officer of Corporation) acknowledged said instrument to be the free act and deed of said corporation.

In Testimony Whereof, I have hereunto set my hand and affixed my Notarial Seal at my Office in ________________________ (County and State), the day and year last above written.

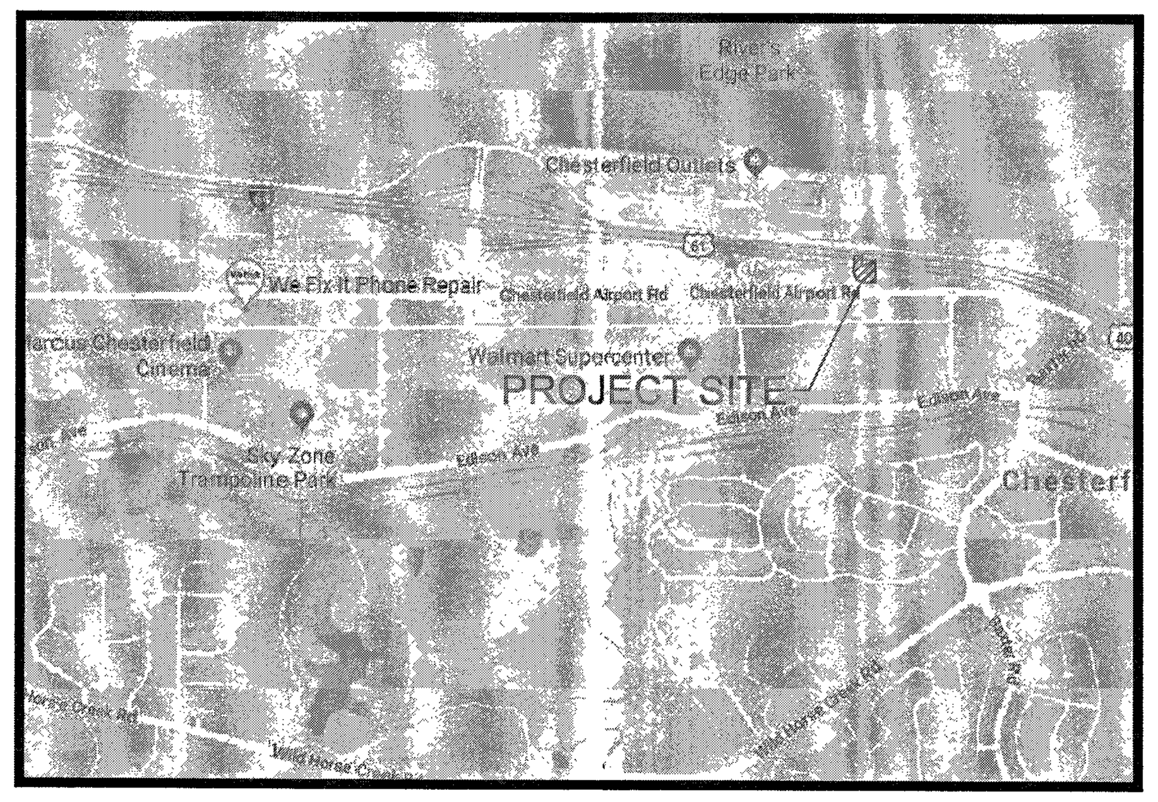
My term expires ____________________.

____
(Notary Public)

This Site Development Plan was approved by the City of Chesterfield Planning Commission and duly verified on the _____ day of ________________, 20___, by the Chairperson of said Commission, authorizing the recording of this Site Development Plan pursuant to Chesterfield Ordinance Number 200, as attested to by the Director of Planning and Development Services and the City Clerk.

____
Justin Wyse, AICP
Director of Planning and Development Services
City of Chesterfield, Missouri

____
Vickie Hass, City Clerk
City of Chesterfield, Missouri



VICINITY MAP
SCALE = 1" = 2,000'

SHEET INDEX

SHEET NUMBER	DESCRIPTION	REV1	REV2	REV3	REV4	REV5	REV6
C1	COVER SHEET	Δ	Δ	Δ			Δ
C7.1	SITE DEVELOPMENT SECTION PLAN	Δ	Δ	Δ			Δ
C11	LIGHTING PLAN	Δ	Δ	Δ		Δ	Δ
C12	LIGHTING REPORT	Δ	Δ	Δ			
C13	LIGHTING DETAILS	Δ	Δ	Δ			

REFERENCE SHEETS

SHEET NUMBER	DESCRIPTION						
L-1	PLANTING PLAN (PAGE 1 OF 2)	Δ	Δ	Δ			Δ
L-2	PLANTING PLAN (PAGE 2 OF 2)	Δ	Δ	Δ			Δ
TPP	TREE PROTECTION PLAN	Δ	Δ	Δ			

GEOTECHNICAL ENGINEER'S CERTIFICATION:

PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI), AN INTERTEK COMPANY, AND THE UNDERSIGNED ENGINEER HAVE NOT PREPARED THE PLAN ON THIS SHEET. THE SEAL OF THE UNDERSIGNED PROFESSIONAL ENGINEER HAS BEEN AFFIXED AT THE REQUEST OF THE CITY OF CHESTERFIELD AND IS A PROFESSIONAL OPINION TO INDICATE THAT THE UNDERSIGNED HAS REVIEWED THE PLANS AND THAT IN HIS OPINION THE GRADING AND IMPROVEMENTS RELATIVE TO SLOPE CONSTRUCTION AS SHOWN ON THE PLANS, AS WELL AS THE FOUNDATIONS, ARE COMPATIBLE WITH THE SOIL AND GEOLOGIC CONDITIONS AT THE SITE AS DESCRIBED IN THE GEOTECHNICAL REPORT FOR THE DEVELOPMENT DATED FEBRUARY 6, 2019.

PSI AND THE UNDERSIGNED ASSUME NO RESPONSIBILITY FOR SERVICES BY OTHERS (PURSUANT TO RSMO 327.411).

CONSTRUCTION MEANS AND METHODS FOR IMPLEMENTATION OF THE GRADING PLAN SHALL BE LEFT TO THE DEVELOPER/CONTRACTOR. OBSERVATIONS OF THE DEVELOPER/CONTRACTOR'S COMPLIANCE WITH THE APPLICABLE SPECIFICATIONS SHALL BE IDENTIFIED AND VERIFIED IN WRITING.

SEAL — STATE OF MISSOURI, JACOB T. BILELLO, NUMBER PE-2004017134, PROFESSIONAL ENGINEER

PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI)
AN INTERTEK COMPANY

11/20/19 JACOB T. BILELLO, P.E.
MISSOURI P.E.: 2004017134 EXP. 12/31/2020

RECEIVED
NOV 21 2019
City of Chesterfield
Department of Public Services

DEED DESCRIPTION:

SURVEYED DESCRIPTION OF ADJUSTED PARCEL 1:
A TRACT OF LAND BEING PART OF C800 OF "KEMP AUTOMOBILE MUSEUM SUBDIVISION" A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 351 PAGES 824 AND 825 OF THE ST. LOUIS COUNTY RECORDS, IN U.S. SURVEY 2031, TOWNSHIP 45 NORTH - RANGE 4 EAST, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHWEST CORNER OF SAID C800, SAID POINT BEING ON THE SOUTH RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY 64, VARYING WIDTH; THENCE EASTWARDLY ALONG THE NORTH LINE OF SAID C800 SOUTH 84 DEGREES 07 MINUTES 33 SECONDS EAST 70.05 FEET TO A POINT; THENCE LEAVING SAID SOUTH RIGHT-OF-WAY LINE THE FOLLOWING COURSES AND DISTANCES: SOUTH 00 DEGREES 00 MINUTES 39 SECONDS EAST 97.59 FEET, NORTH 66 DEGREES 41 MINUTES 06 SECONDS EAST 113.36 FEET AND SOUTH 00 DEGREES 00 MINUTES 39 SECONDS EAST 243.90 FEET TO A POINT IN THE NORTH RIGHT-OF-WAY LINE OF CHESTERFIELD AIRPORT ROAD, 100 FEET WIDE; THENCE WESTWARDLY ALONG SAID NORTH RIGHT-OF-WAY LINE SOUTH 89 DEGREES 34 MINUTES 27 SECONDS WEST 170.34 FEET TO THE SOUTHWEST CORNER OF AFOREMENTIONED C800; THENCE NORTHWARDLY ALONG THE WEST LINE OF SAID C800 THE FOLLOWING COURSES AND DISTANCES: NORTH 12 DEGREES 43 MINUTES 19 SECONDS WEST 26.61 FEET, NORTH 02 DEGREES 09 MINUTES 33 SECONDS WEST 84.73 FEET AND NORTH 01 DEGREES 37 MINUTES 53 SECONDS EAST 194.51 FEET TO THE POINT OF BEGINNING AND CONTAINING 1.032 ACRES, MORE OR LESS.

MSD BASE MAP #17T
MSD P# 19MSD-00273

CORE STATES GROUP
6500 Chippewa Street Suite 200
St. Louis, MO 63109
Phone (314) 843-4320
PBennett@core-eng.com

CLIENT
CHASE

811 Know what's below. Call before you dig.

REVISIONS

REV	DATE	COMMENT	BY
1	8/07/19	SITE DEVELOPMENT SECTION PLAN	CDF
2	08/08/19	PER MSD COMMENT	CDF
3	09/11/19	PER CITY COMMENT	CDF
4	09/12/19	PER MSD COMMENT	CDF
5	10/17/19	PER CITY COMMENT	CDF
6	11/12/19	PER COUNTY COMMENT	CDF

DOCUMENT
CIVIL CONSTRUCTION DOCUMENTS FOR CHASE BANK

SITE LOCATION
16985 CHESTERFIELD AIRPORT ROAD
CHESTERFIELD, MO 63055

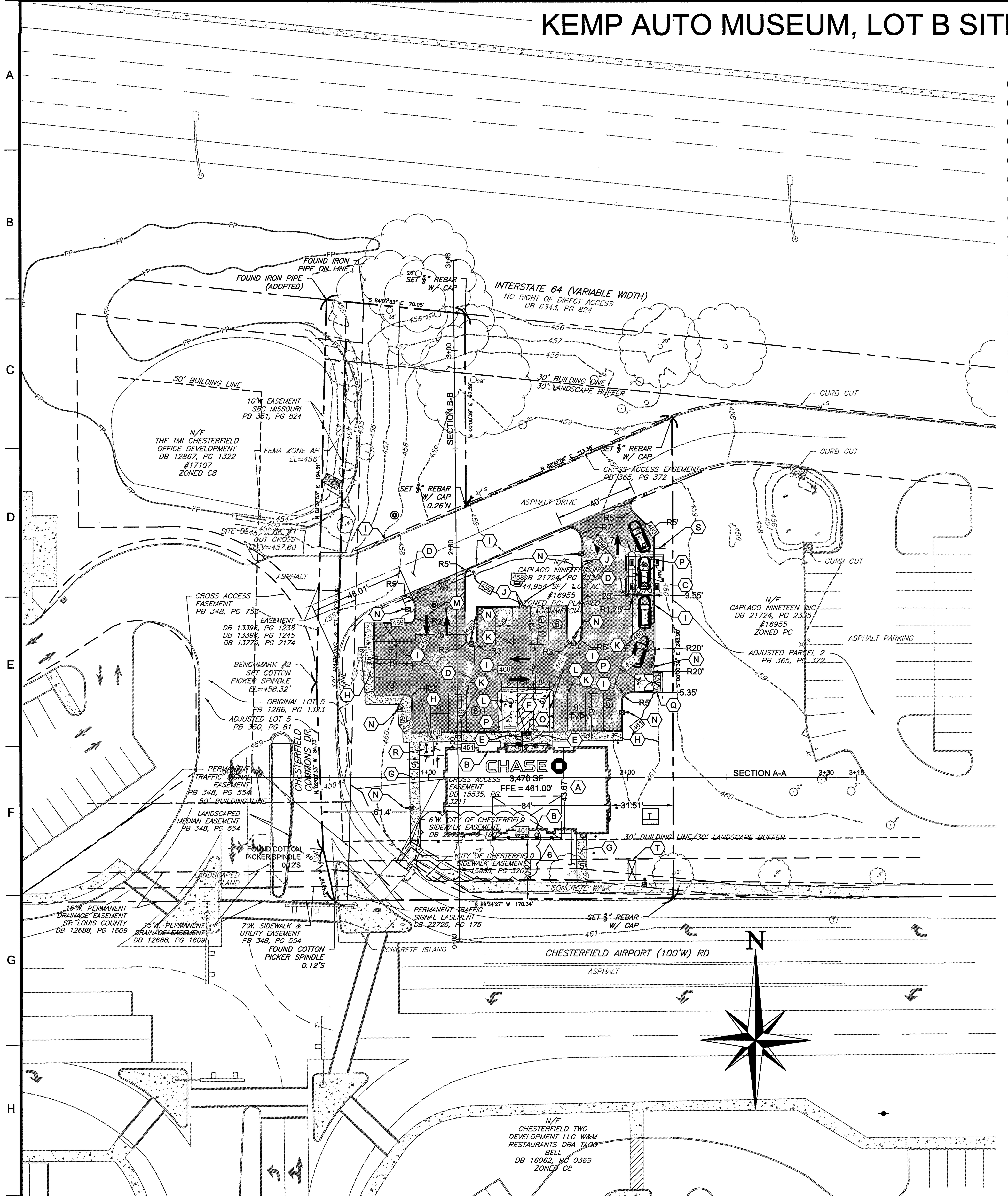
ENGINEER SEAL
STATE OF MISSOURI, CHAD D. FAIRBANKS, NUMBER E-2001018726, PROFESSIONAL ENGINEER
11-12-19

SHEET TITLE
COVER SHEET

JOB #:	JPM.26022
DATE:	06-17-19
SCALE:	N/A
DRAWN BY:	ZPM
CHECKED BY:	CDF

SHEET NO.
C1

KEMP AUTO MUSEUM, LOT B SITE DEVELOPMENT SECTION PLAN



ST. LOUIS COUNTY NOTES:

THE FOLLOWING NOTES ARE FOR ANY WORK WITHIN ST. LOUIS COUNTY RIGHT OF WAY:

- ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
- NO SLOPES WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL).
- STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.
- ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY AND MSD STANDARDS.
- ALL HYDRANTS, POWER POLES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY SHALL HAVE A MINIMUM TWO (2) FOOT SETBACK FROM FACE OF CURB OR EDGE OF PAVEMENT, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC.
- ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE EVIDENCING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE "ST. LOUIS COUNTY" AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF ANY PERMIT. CERTIFICATE SHALL PROVIDE FOR A 30 DAY POLICY CANCELLATION NOTICE TO ST. LOUIS COUNTY. UPON REQUEST, THE COUNTY WILL PROVIDE THE SPECIFIC AMOUNTS FOR BOTH PER PERSON AND PER OCCURRENCE LIMITS.
- PRIOR TO "SPECIAL USE PERMIT" ISSUANCE BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MAY BE REQUIRED TO BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.
- CONTINUOUS PEDESTRIAN ACCESS SHALL BE PROVIDED DURING THE CONSTRUCTION PROCESS. PRIOR TO THE START OF CONSTRUCTION, ADEQUATE PEDESTRIAN ACCESS AROUND THE SITE SHALL BE PROVIDED AND VERIFIED. NO EXISTING SIDEWALK SHALL BE REMOVED WITHOUT PROVIDING ADEQUATE PEDESTRIAN FACILITIES AND ROUTES DURING CONSTRUCTION ACTIVITIES.

6

KEYED NOTES:

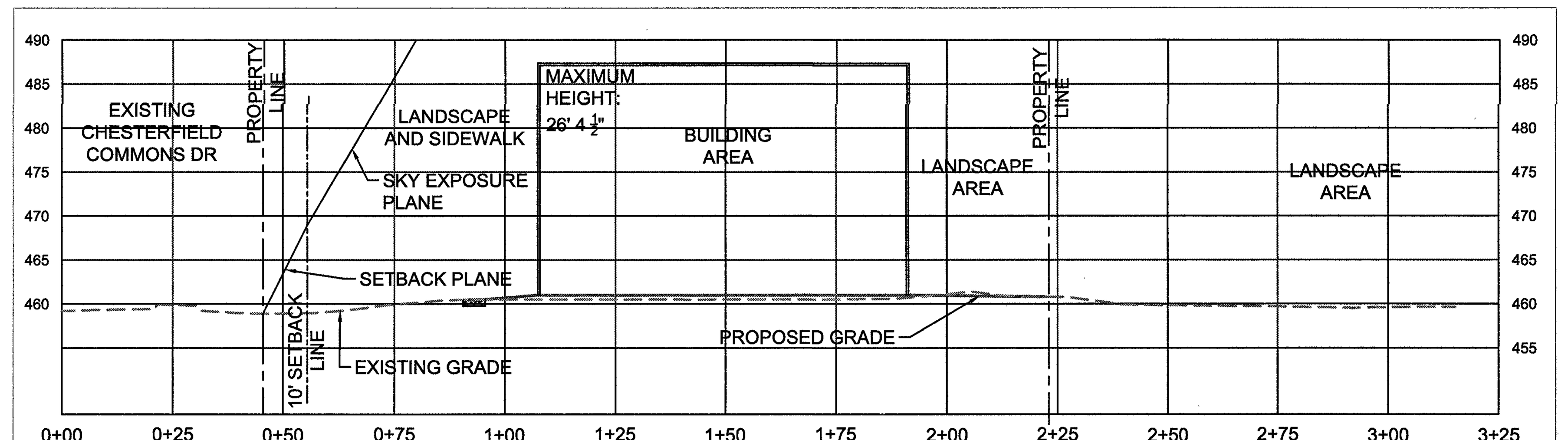
A. PROPOSED CHASE BANK. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ELEVATIONS.
B. PROPOSED BUILDING SIGNS TO BE PROVIDED AND INSTALLED BY OTHERS. ALL SIGNAGE PERMITTED AND APPROVED SEPARATELY.
C. PROPOSED DRIVE-THRU ATM. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ELEVATIONS.
D. PROPOSED ASPHALT PAVEMENT. REFER TO SHEET C14 FOR DETAIL.
E. PROPOSED ADA PARKING SIGNAGE. REFER TO SHEET C14 FOR DETAIL.
F. PROPOSED ADA COMPLIANT RAMP IN SIDEWALK. REFER TO SHEET C14 FOR DETAIL.
G. PROPOSED CONCRETE SIDEWALK. REFER TO SHEET C14 FOR DETAILS.
H. PROPOSED CONCRETE SIDEWALK WITH TURNED DOWN EDGE. REFER TO SHEET C14 FOR DETAIL.
I. PROPOSED CONCRETE CURB. REFER TO SHEET C14 FOR DETAIL.
J. PROPOSED DEPRESSED CURB. REFER TO SHEET C14 FOR DETAIL.
K. PROPOSED 6" SOLID WHITE PAINTED STRIPE (TYPICAL). REFER TO SHEET C14 FOR DETAIL.
L. PROPOSED ACCESSIBLE PARKING STRIPING. REFER TO SHEET C14 FOR DETAIL.
M. PROPOSED DIRECTION TRAFFIC MARKING PAINTED (TYPICAL). REFER TO SHEET C14 FOR DETAIL.
N. PROPOSED SITE LIGHT FIXTURE.
O. PROPOSED DETECTABLE WARNING. REFER TO SHEET C14 FOR DETAIL.
P. PROPOSED CONCRETE PAVEMENT. REFER TO SHEET C14 FOR DETAIL.
Q. PROPOSED TRASH ENCLOSURE. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
R. PROPOSED 5 BIKE CAPACITY WAVE BIKE RACK. REFER TO SHEET C15 FOR DETAIL.
S. PROPOSED "STOP" (R1-1) AND "DO NOT ENTER" (R5-1) SIGN. REFER TO SHEET C15 FOR DETAIL
T. PROPOSED MONUMENT SIGN.

SITE LEGEND

PROPERTY BOUNDARY LINE
CENTERLINE OF EXISTING ROADWAY
ADJACENT PROPERTY LINE
EXIST. SIDEWALK/ACCESS EASEMENT
FLOODPLAIN LIMITS
EXISTING CURB
EXISTING EDGE OF PAVEMENT
EXISTING TREE
EXISTING STORM STRUCTURES
EXISTING SANITARY STRUCTURES
EXISTING ELECTRICAL STRUCTURE
EXISTING LIGHT POLE
PROPOSED CURB
PROPOSED BUILDING
PROPOSED ASPHALT
PROPOSED SIDEWALK
PROPOSED CONCRETE
PROPOSED WATER STRUCTURES
PROPOSED STORM STRUCTURES
PROPOSED SANITARY STRUCTURES
PROPOSED LIGHTING STRUCTURES
PROPOSED SIGN
PROPOSED PARKING COUNT

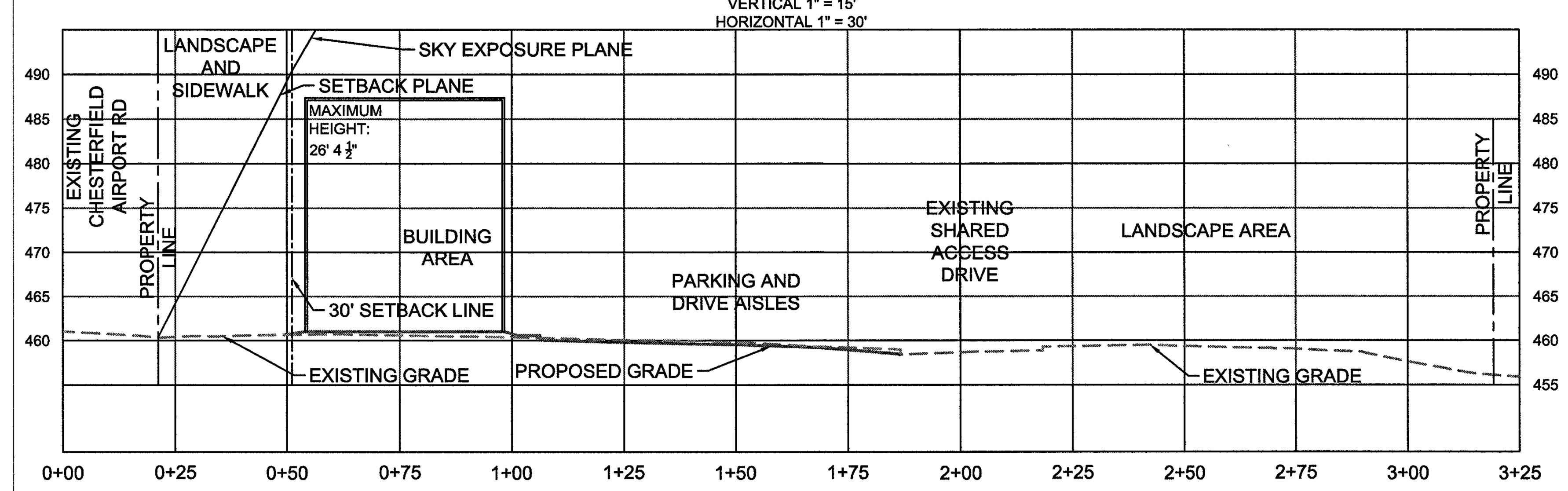
ZONING DATA
PC - PLANNED COMMERCIAL DISTRICT
PROPOSED USE: FINANCIAL INSTITUTION, DRIVE-THRU

ITEM	EXISTING / REQUIRED	PROPOSED
PARCEL ID	17T140363	17T140363
FUTURE LAND USE	COMMERCIAL	COMMERCIAL
MAXIMUM BUILDING HEIGHT (FT)	40 FT	26.375 FT
FLOOR AREA RATIO	0.55 MAX.	0.08
BUILDING AREA (SF)	N/A	3,470 SF
FRONT SETBACK (FT)	30 FT	182.08 FT (NORTH)
SIDE SETBACK (FT)	10 FT	61.40 FT (WEST)
INTERIOR SIDE SETBACK (FT)	0 FT	31.51 FT (EAST)
REAR SETBACK (FT)	30 FT	30.22 FT (SOUTH)
MINIMUM PARKING SPACES	3.3 SPACES / 1,000 SF OF GFA 3,470 * $\frac{1}{1000}$ * 3.3 = 12 SPACES MIN.	20 SPACES (INCLUDING ADA SPACES)
MAXIMUM PARKING SPACES	120% OF MIN. REQUIRED 1.2 * 12 = 15 MAX.	20 SPACES (INCLUDING ADA SPACES)
ADA PARKING SPACES	2 SPACES	2 SPACES
TOTAL PARCEL AREA	1.03 AC (44,869 SF)	1.03 AC (44,869 SF)
TOTAL LIMITS OF DISTURBANCE	N/A	0.497 AC (21,654 SF)
TOTAL OFF-SITE WORK	N/A	0.00 AC (0 SF)
PARCEL OPEN SPACE AREA (% OF LOT AREA)	0.361 AC (15,704 SF) 35% REQUIRED	0.534 AC (23,255 SF) 51.8%



PV - (SECTION A-A)

SCALE
VERTICAL 1" = 15'
HORIZONTAL 1" = 30'



PV - (SECTION B-B)

SCALE
VERTICAL 1" = 15'
HORIZONTAL 1" = 30'

SITE NOTES:

1. ALL DIMENSIONS ARE TO GROUND LEVEL IMPROVEMENTS (FACE OF CURB, CONCRETE SLAB, ETC.) UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL PLANS FOR BUILDING DETAILS.
2. ALL DIMENSIONS FROM PROPERTY LINES ARE PERPENDICULAR UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO SEED ALL DISTURBED AREA UNLESS NOTED OTHERWISE.
4. ALL CONSTRUCTION PARKING SHALL BE ONSITE.
5. ALL SITE UTILITIES SHALL BE BURIED UNDERGROUND.
6. ~~RECYCLING OPPORTUNITIES WILL BE PROVIDED ON SITE.~~
7. CONTRACTOR SHALL COORDINATE WITH COUNTY PROJECT AR-1740. 6

GRAPHIC SCALE
30 15 7.5 0 30
1" = 30'

MSD BASE MAP #17T
MSD P# 19MSD-00273

CORE STATES GROUP
6500 Chippewa Street Suite 200
St. Louis, MO 63109
Phone (314) 843-4320
PBennett@core-eng.com

CLIENT
CHASE

811
Know what's below. Call before you dig.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. CORE STATES, INC. DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES.

REVISIONS

REV	DATE	COMMENT	BY
1	8/07/19	SITE DEVELOPMENT SECTION PLAN	CDF
2	08/08/19	PER MSD COMMENT	CDF
3	09/11/19	PER CITY COMMENT	CDF
4	09/12/19	PER MSD COMMENT	CDF
6	11/12/19	PER COUNTY COMMENT	CDF

DOCUMENT
CIVIL CONSTRUCTION DOCUMENTS FOR CHASE BANK

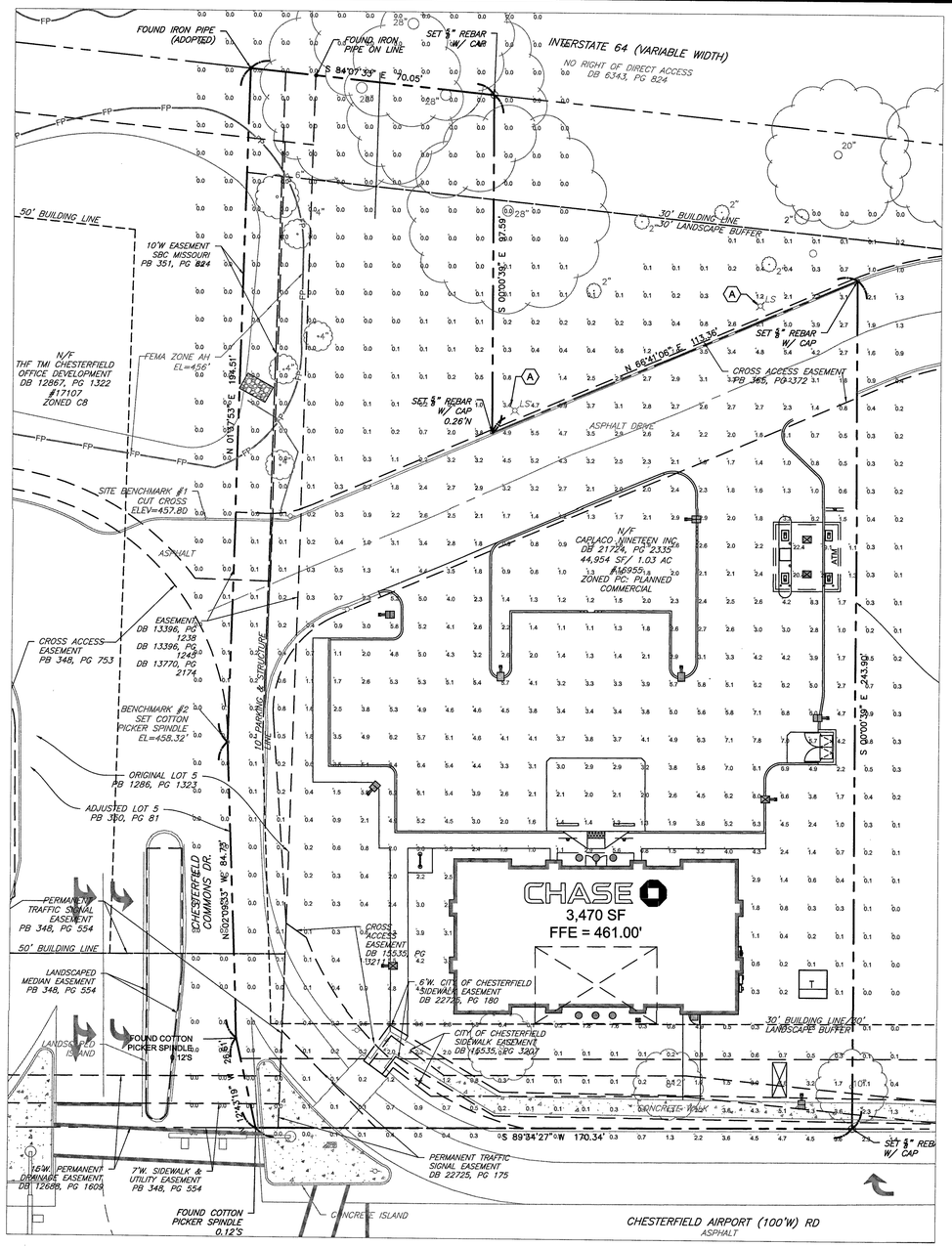
SITE LOCATION
16985 CHESTERFIELD AIRPORT ROAD CHESTERFIELD, MO 63055

ENGINEER SEAL
STATE OF MISSOURI
CHAD D. FAIRBANKS
NUMBER E-2001018726
REGISTERED PROFESSIONAL ENGINEER
11-12-19

SHEET TITLE
KEMP AUTO MUSEUM, LOT B SITE DEVELOPMENT SECTION PLAN

JOB #:	JPM.26022
DATE:	06-17-19
SCALE:	1"=30'
DRAWN BY:	ZPM
CHECKED BY:	CDF

SHEET NO.
C7.1



LUMINAIRE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	CATALOG	QTY	DISTRIBUTION	MOUNT HT.
⊠	GE	RECESSED CANOPY LIGHT	ECRA0A5F54001BWHTE	2	TYPE 5	10'-8"
▭	MULE LIGHTING	EMLED SERIES - EUE	EUE-BB-10-XX-W-XX	1	TYPE 1	12'-0"
●	GE	ROUND DI SERIES	DI4R10930FL1V/2V10	6	TYPE 5	9'-6"
▭	LITHONIA LIGHTING	D-SERIES 0	DSX0-LED-P4-40K-T5W-MVOLT	1	TYPE 5	20'-0"
▭	LITHONIA LIGHTING	D-SERIES 0	DSX0-LED-P4-40K-TFTM-MVOLT	2	TYPE 4	20'-0"
▭	LITHONIA LIGHTING	D-SERIES 0	DSX0-LED-P4-40K-T3M-MVOLT-HS	2	TYPE 3	20'-0"
▭	LITHONIA LIGHTING	D-SERIES 0	DSX0-LED-P4-40K-T3S-MVOLT-HS	4	TYPE 3	20'-0"

CALCULATION SUMMARY 1

AREA	AVERAGE	MAX	MIN
PAVED AREA @ 5-FT ABOVE GRADE	2.01 fc	22.4 fc	0.0 fc

LIGHTING CALCULATIONS INCLUDE AREA UNDER ATM CANOPY. ATM REQUIRES ADDITIONAL LIGHTING FOR SECURITY.

LIGHTING ANALYSIS - MEASURED AT 5-FT ABOVE GRADE

LIGHTING NOTES

1. LIGHT ANALYSIS CONDUCTED AT 5-FEET ABOVE FINISHED GRADE.
2. ALL PROPOSED FIXTURES ON TIMER TO OPERATE DURING NIGHT TIME HOURS, 30 MINUTES AFTER SUNSET AND 30 MINUTES BEFORE SUNRISE.
3. CONTRACTOR TO INSTALL FIXTURE ON POLE RSS-XX-5B-XXX-XXX AND MATCH ADJACENT PROPERTY LIGHT POLE COLOR. MOUNT HEIGHTS ARE BASED ON HEIGHT ABOVE FINISHED ASPHALT GRADE.
4. LIGHT FIXTURES TO BE MOUNTED ATOP OF A 17-FT POLE MOUNTED TO A 3-FT CONCRETE BASE; TOTAL MOUNTING HEIGHT MEASURED FROM FINISH GROUND ELEVATION TO FIXTURE IS 20-FT.
5. THE SOURCE OF PARKING LOT ILLUMINATION SHALL NOT BE LOWER THAN TEN (10) FEET AND SHALL NOT EXCEED TWENTY (20) FEET ABOVE GRADE.
6. LIGHTING SHALL NOT PRODUCE ANY OFF-SITE ILLUMINATION.

KEYED NOTES:

A. EXISTING ADJACENT LIGHTS MODELED FOR THIS LIGHTING STUDY.

LIGHTING LEGEND

- EXISTING PROPERTY BOUNDARY LINE
- EXISTING ADJOINING PROPERTY LINE
- EXISTING ROAD CENTERLINE
- EXISTING CURB
- PROPOSED CURB
- PROPOSED BUILDING
- 1.9 FOOTCANDLE CALCULATION POINT
- PROPOSED SITE LIGHT FIXTURE

N

GRAPHIC SCALE
20 10 5 0 20
1" = 20'

MSD BASE MAP #17T
MSD P# 19MSD-00273

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THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN SURVEY INFORMATION AND EXISTING RECORDS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND/OR ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR AS A RESULT OF THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS, BUT NOT MORE THAN 14 CALENDAR DAYS, PRIOR TO BEGINNING CONSTRUCTION FOR THE PURPOSE OF REQUESTING EXACT FIELD LOCATIONS OF UTILITIES.

REVISIONS

REV	DATE	COMMENT	BY
1	8/07/19	SITE DEVELOPMENT SECTION PLAN	CDF
2	08/08/19	PER MSD COMMENT	CDF
3	09/11/19	PER CITY COMMENT	CDF
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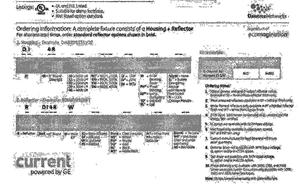
CHESTERFIELD, MO 63055

ENGINEER SEAL
STATE OF MISSOURI
CHAD D. FAIRBANKS
NUMBER E-2001018726
REGISTERED PROFESSIONAL ENGINEER
11-12-19

SHEET TITLE
LIGHTING PLAN

JOB #:	JPM.26022
DATE:	06-17-19
SCALE:	1"=20'
DRAWN BY:	ZPM
CHECKED BY:	CDF

SHEET NO.
C11

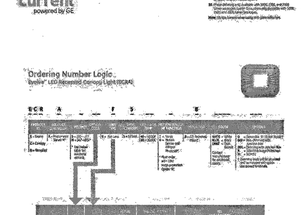


Specifications

EPA: 0.65 CF
Length: 39"
Width: 13"
Height: 3"
Height with arm: 11"
Weight: 31 lbs (without arm)

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 dazzles the benefits of the latest in LED technology with high performance, high efficiency, long life luminaire. The outstanding photometric performance results in best-in-class uniformity, greater pole spacing and lower power density. It's ideal for replacing up to 400W metal halide with typical energy savings of 70% and extended service life of over 100,000 hours.



Photometric Report (Type C)

Filename: DSX0_LED_P4_40K_T3M_MVOLT_SPA.ies
[TEST] ISF 3299DP1J
[TESTLAB] ACOLED PHOTOMETRY
[ISSUEDATE] 11/9/2017
[MANUFAC] Acuity Brands Lighting
[LUMCAT] DSX0 LED P4 40K T3M MVOLT SPA
[LUMCAT] DSX0 LED P4 40K T3M MVOLT SPA with houseside shield
[LUMINAIRE] DSX0 LED P4 40K T3M MVOLT with houseside shield
[LAMPCAT] P6DN LDN-00 40000 3ISA TO CRI
[LAMP] LED
[BALLAST] LED Driver

Maximum Candela = 5501.1823399181 at 42.5 H 62.5 V

Classification:

Road Classification: Type III, Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 45
Indoor Classification: Direct
BUG Rating : B1-U0-G2

Polar Candela Curves:

Vertical Plane Through: 11 42.5 - 222.5 Horizontal
Horizontal Cone Through: 22 62.5 Vertical

Photometric Report (Type C)

Filename: DSX0_LED_P4_40K_T5W_MVOLT.ies
[TEST] ISF 3299DP1J
[TESTLAB] ACOLED PHOTOMETRY
[ISSUEDATE] 11/9/2017
[MANUFAC] Acuity Brands Lighting
[LUMCAT] DSX0 LED P4 40K T5W MVOLT
[LUMINAIRE] DSX0 LED P4 40K T5W MVOLT with houseside shield
[LAMPCAT] P6DN LDN-00 40000 3ISA TO CRI
[LAMP] LED
[BALLAST] LED Driver

Maximum Candela = 7616.6852449531 at 37.5 H 70 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 115
Indoor Classification: Direct
BUG Rating : B2-U0-G2

Polar Candela Curves:

Vertical Plane Through: 12 27.5 - 207.5 Horizontal
Horizontal Cone Through: 21 70 Vertical

Photometric Report (Type C)

Filename: DSX0_LED_P4_40K_T5W_MVOLT_SPA.ies
[TEST] ISF 3299DP1J
[TESTLAB] ACOLED PHOTOMETRY
[ISSUEDATE] 11/9/2017
[MANUFAC] Acuity Brands Lighting
[LUMCAT] DSX0 LED P4 40K T5W MVOLT SPA
[LUMINAIRE] DSX0 LED P4 40K T5W MVOLT SPA with houseside shield
[LAMPCAT] P6DN LDN-00 40000 3ISA TO CRI
[LAMP] LED
[BALLAST] LED Driver

Maximum Candela = 7587.9180236716 at 42.5 H 62.5 V

Classification:

Road Classification: Type III, Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 45
Indoor Classification: Direct
BUG Rating : B2-U0-G2

Polar Candela Curves:

Vertical Plane Through: 11 42.5 - 222.5 Horizontal
Horizontal Cone Through: 22 62.5 Vertical

Photometric Report (Type C)

Filename: DSX0_LED_P4_40K_T5W_MVOLT.ies
[TEST] ISF 3299DP1J
[TESTLAB] ACOLED PHOTOMETRY
[ISSUEDATE] 11/9/2017
[MANUFAC] Acuity Brands Lighting
[LUMCAT] DSX0 LED P4 40K T5W MVOLT
[LUMINAIRE] DSX0 LED P4 40K T5W MVOLT with houseside shield
[LAMPCAT] P6DN LDN-00 40000 3ISA TO CRI
[LAMP] LED
[BALLAST] LED Driver

Maximum Candela = 7616.6852449531 at 37.5 H 70 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 115
Indoor Classification: Direct
BUG Rating : B2-U0-G2

Polar Candela Curves:

Vertical Plane Through: 12 27.5 - 207.5 Horizontal
Horizontal Cone Through: 21 70 Vertical

Photometric Report (Type C)

Filename: DSX0_LED_P4_40K_T5W_MVOLT_SPA.ies
[TEST] ISF 3299DP1J
[TESTLAB] ACOLED PHOTOMETRY
[ISSUEDATE] 11/9/2017
[MANUFAC] Acuity Brands Lighting
[LUMCAT] DSX0 LED P4 40K T5W MVOLT SPA
[LUMINAIRE] DSX0 LED P4 40K T5W MVOLT SPA with houseside shield
[LAMPCAT] P6DN LDN-00 40000 3ISA TO CRI
[LAMP] LED
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Maximum Candela = 7587.9180236716 at 42.5 H 62.5 V

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[TEST] ISF 3299DP1J
[TESTLAB] ACOLED PHOTOMETRY
[ISSUEDATE] 11/9/2017
[MANUFAC] Acuity Brands Lighting
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[LAMPCAT] P6DN LDN-00 40000 3ISA TO CRI
[LAMP] LED
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Polar Candela Curves:

Vertical Plane Through: 12 27.5 - 207.5 Horizontal
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Photometric Report (Type C)

Filename: DSX0_LED_P4_40K_T5W_MVOLT_SPA.ies
[TEST] ISF 3299DP1J
[TESTLAB] ACOLED PHOTOMETRY
[ISSUEDATE] 11/9/2017
[MANUFAC] Acuity Brands Lighting
[LUMCAT] DSX0 LED P4 40K T5W MVOLT SPA
[LUMINAIRE] DSX0 LED P4 40K T5W MVOLT SPA with houseside shield
[LAMPCAT] P6DN LDN-00 40000 3ISA TO CRI
[LAMP] LED
[BALLAST] LED Driver

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Road Classification: Type III, Short, N.A. (deprecated)
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Polar Candela Curves:

Vertical Plane Through: 11 42.5 - 222.5 Horizontal
Horizontal Cone Through: 22 62.5 Vertical

Photometric Report (Type C)

Filename: DSX0_LED_P4_40K_T5W_MVOLT.ies
[TEST] ISF 3299DP1J
[TESTLAB] ACOLED PHOTOMETRY
[ISSUEDATE] 11/9/2017
[MANUFAC] Acuity Brands Lighting
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[LUMINAIRE] DSX0 LED P4 40K T5W MVOLT
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[LAMP] LED
[BALLAST] LED Driver

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Road Classification: Type IV, Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 115
Indoor Classification: Direct
BUG Rating : B2-U0-G2

Polar Candela Curves:

Vertical Plane Through: 12 27.5 - 207.5 Horizontal
Horizontal Cone Through: 21 70 Vertical

Photometric Report (Type C)

Filename: 4in4SD_cdlr4SD40K_tom281-4SDT7.ies
[TEST] LTL19276-S-00052
[TESTLAB]
[ISSUEDATE] 2019-11-19T21:49:14
[MANUFAC] GE Lighting, Savin Lume
[LUMCAT] Reflectors: RSD1RSD30K Flavors: U3491RSDXXXXXP
[LUMINAIRE] 4in4SD_cdlr4SD40K Flavors: 4in Round Wide
[LAMPCAT] 3SD30
[LAMP] Infusion OLM 1500 Lumens
[BALLAST] Led Power Supply

Maximum Candela = 497.4 at 358.8 H 16 V

Classification:

Road Classification: Type VIs, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 46
Indoor Classification: Direct
BUG Rating : B1-U0-G2

Polar Candela Curves:

Vertical Plane Through: 11 313 - 133 Horizontal
Horizontal Cone Through: 22 16 Vertical

Photometric Report (Type C)

Filename: 4in4_cdlr4SD40K_tom281-4SDT7.ies
[TEST] LTL19276-S-00051
[TESTLAB]
[ISSUEDATE] 2019-11-19T21:49:14
[MANUFAC] GE Lighting, Savin Lume
[LUMCAT] Reflectors: RSD1RSD30K Flavors: U3491RSDXXXXXP
[LUMINAIRE] 4in4SD_cdlr4SD40K Flavors: 4in Round Wide
[LAMPCAT] 3SD30
[LAMP] Infusion OLM 1000 Lumens
[BALLAST] Led Power Supply

Maximum Candela = 297.8 at 313.8 H 16 V

Classification:

Road Classification: Type VIs, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 46
Indoor Classification: Direct
BUG Rating : B1-U0-G2

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1041.8	N.A.	7.9
FM (30-60)	3153.8	N.A.	23.9
FH (60-90)	2324.4	N.A.	17.6
TFW (0-90)	6520.1	N.A.	49.4
UL (90-120)	0.0	N.A.	0.0
UH (120-180)	0.0	N.A.	0.0
Total	6520.1	N.A.	100.0
BUG Rating	B2-U0-G2		

Photometric Report (Type C)

Filename: 4in4SD_cdlr4SD40K_tom281-4SDT7.ies
[TEST] LTL19276-S-00052
[TESTLAB] GE LIGHTING SOLUTIONS-HENDERSONVILLE
[ISSUEDATE] 08-11-2019
[MANUFAC] GE LIGHTING SOLUTIONS
[LUMCAT] 4in4_cdlr4SD40K -120-277V
[LUMINAIRE] EVOLVE ERO CHROMY LIGHT - RCSA
[LAMPCAT] 3SD
[LAMP] LED

Maximum Candela = 1681.4 at 358 H 1.9

Classification:

Road Classification: Type VIs, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 115
Indoor Classification: Direct
BUG Rating : B2-U0-G2

Polar Candela Curves:

Vertical Plane Through: 12 72 - 252 Horizontal
Horizontal Cone Through: 21 2 Vertical

Photometric Report (Type C)

Filename: 4in4SD_cdlr4SD40K_tom281-4SDT7.ies
[TEST] LTL19276-S-00051
[TESTLAB]
[ISSUEDATE] 2019-11-19T21:49:14
[MANUFAC] GE Lighting, Savin Lume
[LUMCAT] Reflectors: RSD1RSD30K Flavors: U3491RSDXXXXXP
[LUMINAIRE] 4in4SD_cdlr4SD40K Flavors: 4in Round Wide
[LAMPCAT] 3SD30
[LAMP] Infusion OLM 1000 Lumens
[BALLAST] Led Power Supply

Maximum Candela = 297.8 at 313.8 H 16 V

Classification:

Road Classification: Type VIs, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 46
Indoor Classification: Direct
BUG Rating : B1-U0-G2

LCS Summary:

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FM (30-60)	3153.8	N.A.	23.9
FH (60-90)	2324.4	N.A.	17.6
TFW (0-90)	6520.1	N.A.	49.4
UL (90-120)	0.0	N.A.	0.0
UH (120-180)	0.0	N.A.	0.0
Total	6520.1	N.A.	100.0
BUG Rating	B2-U0-G2		

Photometric Report (Type C)

Filename: 4in4SD_cdlr4SD40K_tom281-4SDT7.ies
[TEST] LTL19276-S-00052
[TESTLAB] GE LIGHTING SOLUTIONS-HENDERSONVILLE
[ISSUEDATE] 08-11-2019
[MANUFAC] GE LIGHTING SOLUTIONS
[LUMCAT] 4in4_cdlr4SD40K -120-277V
[LUMINAIRE] EVOLVE ERO CHROMY LIGHT - RCSA
[LAMPCAT] 3SD
[LAMP] LED

Maximum Candela = 1681.4 at 358 H 1.9

Classification:

Road Classification: Type VIs, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 115
Indoor Classification: Direct
BUG Rating : B2-U0-G2

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	866.6	N.A.	13.5
FM (30-60)	2155.3	N.A.	33.6
FH (60-90)	378.2	N.A.	5.9
TFW (0-90)	3400.1	N.A.	53.0
BL (0-30)	446.4	N.A.	7.0
BM (30-60)	1131.3	N.A.	17.6
BH (60-90)	276.5	N.A.	4.3
BVH (90-180)	56.8	N.A.	0.9
UL (90-120)	0.0	N.A.	0.0
UH (120-180)	0.0	N.A.	0.0
Total	6170.8	N.A.	100.0
BUG Rating	B2-U0-G1		

Architectural Mullion Mount Emergency Light

Consisting in emergency mode or optional normal on, this fixture is designed to mount directly on structure mullion and provide illumination to the surrounding area and the surface as well as it. This fixture has AUTOP self-test and will provide without emergency lighting in front of egress doorways, or stairs activated automatic.

Photometric Report (Type C)

Filename: 21329-PAK10K-T-1.ies
[TEST] 21329
[TESTLAB] LUMANTEK TESTING LABORATORY, INC.
[ISSUEDATE] 11/21/2018
[MANUFAC] MOSS LIGHTING, INC
[LUMCAT] PAK10K-T
[LUMINAIRE] EXTENDED ALUMINUM HOUSING, FROSTED PLASTIC ENCLOSURE
[LAMP] 42X WHITE LEDS

Maximum Candela = 240.6 at 90 H 2 V

Classification:

Road Classification: Type I, Very Short, Full Cutoff (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 49
Indoor Classification: Direct
BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through: 21 90 - 270 Horizontal
Horizontal Cone Through: 21 2 Vertical

Photometric Report (Type C)

Filename: 21329-PAK10K-T-1.ies
[TEST] 21329
[TESTLAB] LUMANTEK TESTING LABORATORY, INC.
[ISSUEDATE] 11/21/2018
[MANUFAC] MOSS LIGHTING, INC
[LUMCAT] PAK10K-T
[LUMINAIRE] EXTENDED ALUMINUM HOUSING, FROSTED PLASTIC ENCLOSURE
[LAMP] 42X WHITE LEDS

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Classification:

Road Classification: Type I, Very Short, Full Cutoff (deprecated)
Upward Waste Light Ratio: 0.00
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Indoor Classification: Direct
BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through: 21 90 - 270 Horizontal
Horizontal Cone Through: 21 2 Vertical

Photometric Report (Type C)

Filename: 21329-PAK10K-T-1.ies
[TEST] 21329
[TESTLAB] LUMANTEK TESTING LABORATORY, INC.
[ISSUEDATE] 11/21/2018
[MANUFAC] MOSS LIGHTING, INC
[LUMCAT] PAK10K-T
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[LAMP] 42X WHITE LEDS

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BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through: 21 90 - 270 Horizontal
Horizontal Cone Through: 21 2 Vertical

CORE STATES GROUP
6600 Chippewa Street Suite 200
St. Louis, MO 63109
Phone (314) 843-4320
Pbennett@corestategroup.com

CLIENT

CHASE

811 Know what's below. Call before you dig.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON DESIGN DRAWINGS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. CORE STATES, INC. DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES.

REVISIONS

REV	DATE	COMMENT	BY
1	8/07/19	SITE DEVELOPMENT SECTION PLAN	CDF
2	08/08/19	PER MSD COMMENT	CDF
3	09/11/19	PER CITY COMMENT	CDF

DOCUMENT
CIVIL CONSTRUCTION DOCUMENTS FOR CHASE BANK

SITE LOCATION
16985 CHESTERFIELD AIRPORT ROAD
CHESTERFIELD, MO 63055

ENGINEER SEAL

SHEET TITLE
LIGHTING REPORT

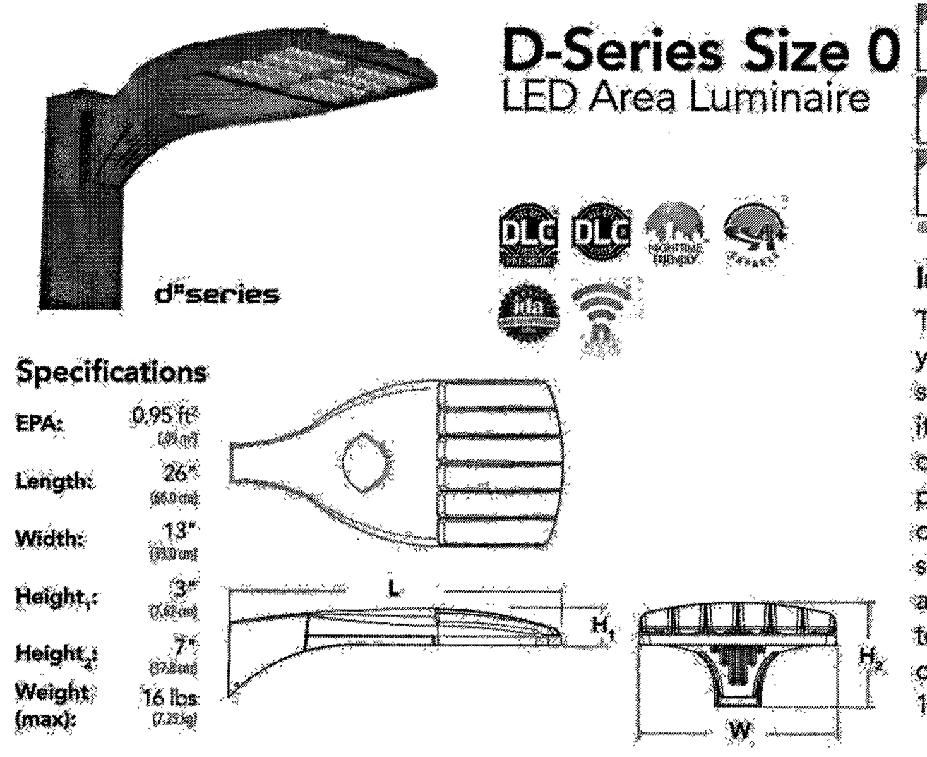
JOB #:	JPM.26022
DATE:	06-17-19
SCALE:	N/A
DRAWN BY:	ZPM
CHECKED BY:	CDF

SHEET NO.
C12

MSD BASE MAP #17T
MSD P# 19MSD-00273

LIGHT SYMBOL
FROM LIGHTING PLAN:

D-Series Size 0
LED Area Luminaire



Specifications

- EPA: 0.95 ft²
- Length: 26"
- Width: 13"
- Height₁: 3"
- Height₂: 7"
- Weight (max): 16 lbs

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 70% and expected service life of over 100,000 hours.

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics: P1, P2, P3, P4, P5, P6, P7; Rotated optics	30K 3000 K; 40K 4000 K; 50K 5000 K	T1S Type I short; T2S Type II short; T2M Type II medium; T3S Type III short; T3M Type III medium; T5S Type V short; T5M Type V medium; T5W Type V wide; BLC Backlight control; LCCO Left corner cutoff	MVOLT; 120; 208; 240; 277	Shipped included: SPA Square pole mounting; RPA Round pole mounting; WBA Wall bracket; SPUMBA Square pole universal mounting adaptor

DSX0-LED Rev. 05/15/19 Page 1 of 8

LIGHT SYMBOL
FROM LIGHTING PLAN:

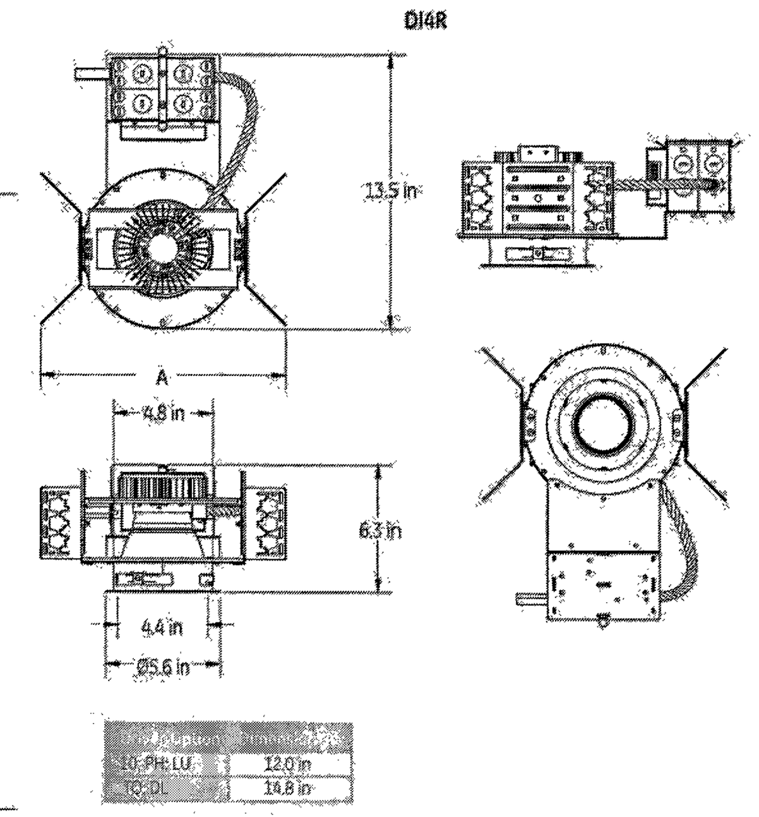
Lumination™ LED Luminaires
Downlights Powered by Infusion™
DI4R - 4" Round Aperture

Project name ______
Date ______
Type ______

Product Description:

Lumination DI Series LED downlights are powered by the Infusion™ downlight module for exceptional efficacy and color rendering. Designed for new construction applications, the DI4R is available in four color temperatures and three lumen packages, all with 90+ CRI. Matching custom engineered reflectors ensure a 45 degree cutoff. The twist-in Infusion DLM LED module allows for tool-free replacement and upgrade as LED technology advances, ensuring the lowest total cost of ownership.

Product Dimensions:



Performance Summary:

Distribution Patterns: Wide
Input Voltage: 120, 277V, 347V
Dimming Options: 0-10V, Phase Dimming, Lutron, Dali or Daintree to 10%
CCT: 2700K, 3000K, 3500K, 4000K
CRI: 90
Color Consistency: 4 Step MacAdam Ellipse
Lifetime Rating: L85 @ 50,000 Hrs
Input Frequency (Hz): 60Hz
Power Factor: >0.9
Mounting Options: Hanger bars for grid or drywall ceilings
Weight: 5.1 lb
IC Rating: Non-IC Rated
Limited Warranty: 5 years system
Files Available: LM79, LM80, IES, Revit

Nominal Module Lumens	1000	1500	2000	3000	4000
Delivered Lumen Output	870	1290	1750	2620	3426
System Input Power (W)	14	20	25	38	51
System Efficacy (LPW)	62	66	70	69	67
Emergency Mode Lumens	630	630	630	630	630

Daintree driver adds 1.4 Watts to System Input Power (W).

Driver Option	Dimension A
10, PH, LU	12.0 in
TO, DL	14.8 in

Listings:
- UL and cUL Listed.
- Suitable for damp locations.
- Wet Rated option standard.

DaintreeNetworks

Ordering Information: A complete fixture consists of a **Housing + Reflector**

For shortest lead times, order **standard reflector options shown in bold.**

a product of ecomagination

1. Housing – Example: DI4R209351U10

D I 4R

2. Reflector – Example: RDI4RWSDWT

R DI4R W

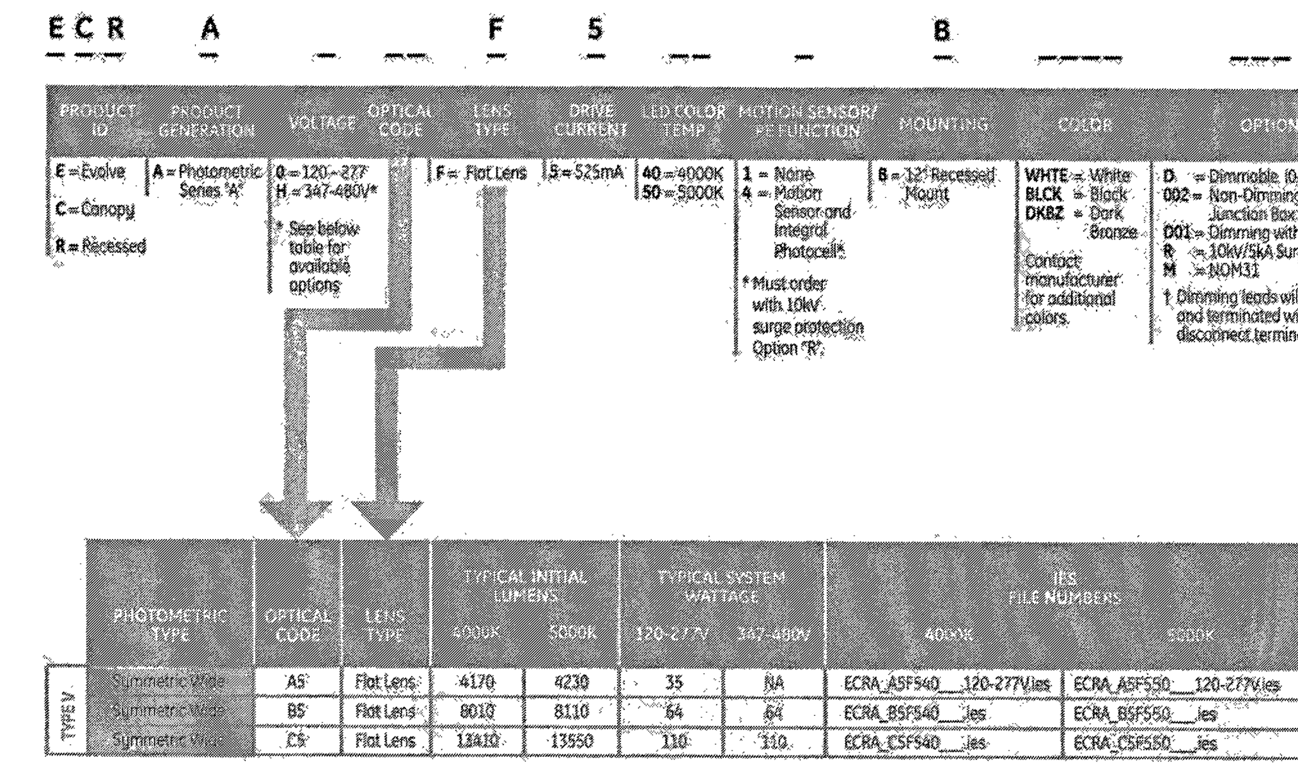
Accessories

Note: 5% less lumens when using anti-glare reflectors.

current powered by GE

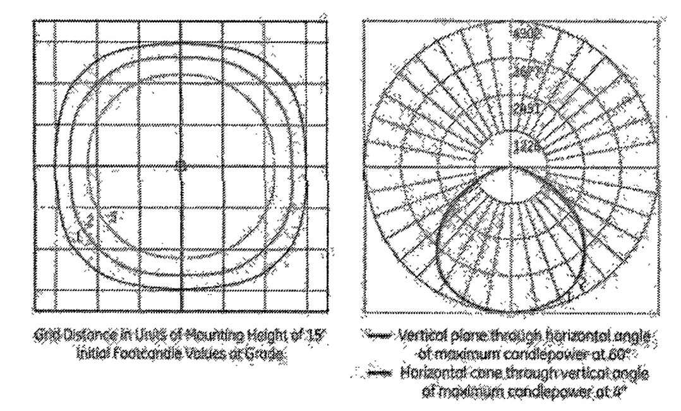
LIGHT SYMBOL
FROM LIGHTING PLAN:

Ordering Number Logic
Evolve™ LED Recessed Canopy Light (ECRA)



Photometrics

ECRA Type V - Symmetric Wide - Flat Lens
13,550 Lumens, 5000K, ECRA_C5F550___.ies



EMLED Series - EUE

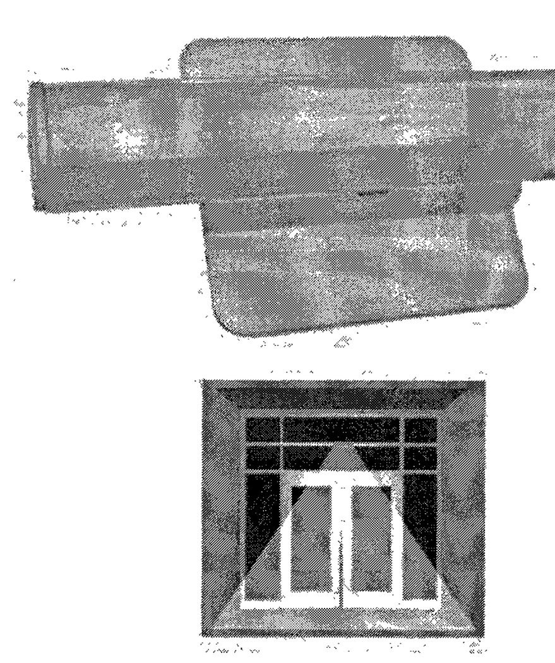
LIGHT SYMBOL
FROM LIGHTING PLAN:

Mullion Mount LED Outdoor Egress with Remote Power Supply

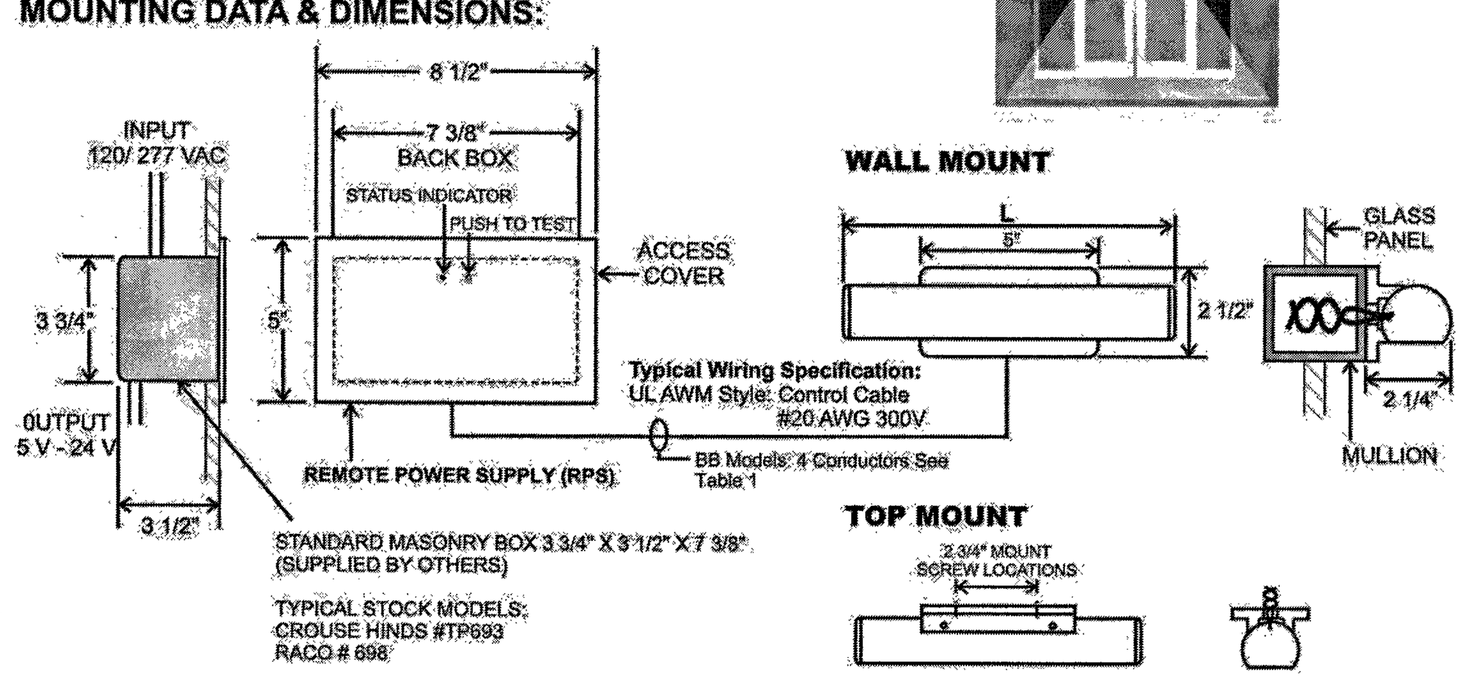
BENEFITS & FEATURES

- Extremely low profile, formed aluminum housing
- Illuminates a uniform 12' x 25' area providing safe and effective outdoor emergency egress lighting
- 10 watt Cree LEDs
- Pure white light output of 5600K
- Wet location listed to UL924 and IP66 standards
- Maintenance-free NiCad battery, standard
- Uses a Remote Battery Supply
- Optical LED lens coupled with prismatic polycarbonate lens for optimal light output and protection
- Optional security/night lighting (SEC) allows the fixture to be used as an emergency lighting and as security/night lighting
- *Power supply delivers regulated current and voltage to LED lamps at optimum levels to maximize lamp life*
- Standard finish: White, Brushed Aluminum, Dark Bronze
- External LED status indicator/ Test Button on Remote Power Supply
- 120-277 volt, 50/60Hz input
- IES photometric data available
- 5 year warranty
- Ambient Temperature Limits: -40° C to +50° C

Architectural Mullion Mount Emergency Light
Operating in emergency mode or optional normal- on, this fixture is designed to mount directly on structural mullion beams used in typical glass-fronted entrances, with vertical surface as small as 2". This fixture has full 90° cut-off and will provide efficient emergency lighting in front of egress doorways, or along extended pathways.



MOUNTING DATA & DIMENSIONS:



ORDERING INFORMATION

MODEL	OPERATION	POWER	HOUSING COLOR	MOUNT	OPTIONS
EUE	BB = Battery Backup	10 = 10 Watts	W = Satin White	T = Top	DG = Self-Test Diagnostics (BB Models Only)
			A = Aluminum	W = Wall	SR120 = Security Lighting with Control Switch for Standard BB Operation (120V)
			DB = Dark Bronze		SR277 = Security Lighting with Control Switch for Standard BB Operation (277V)
			CC = Custom		SD = Security Lighting with Control Switch for BB Operation with DG option (120/277V)
					CW1 = Custom Window Filter 3800K
					CW2 = Custom Window Filter 3200K
					3HT = 3" Canopy Height
					5HT = 5" Canopy Height

Ordering Example: EUE-BB-10-W-T-DG

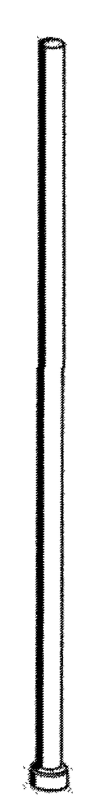
LITHONIA LIGHTING

Catalog Number	
Notes	
Type	

Anchor Base Poles

RSS

ROUND STRAIGHT STEEL



FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Check with factory for Canadian specifications. Round Straight Steel is a general purpose light pole for up to 30-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION — Pole Shaft: The pole shaft is of 0.120" uniform wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 42,000 psi. Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly round in cross-section down length of shaft with no taper. Standard shaft diameters are 3", 4", 4.5" and 5". 6" diameter shaft available by quote. Shaft wall thickness of .180" and .250" are available with certain tube diameters.

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable press-fit, black, low density polyethylene top cap.

Handhole: A reinforced handhole with grounding provision is provided at 12" from the base end of the pole assembly on side A. Every handhole includes a cover and cover attachment hardware. 2.5" x 5" rectangular handhole is provided on pole.

Base Cover: A two-piece ABS plastic full base cover is provided with each pole assembly. Additional base cover options are available upon factory request. Options include fabricated two-piece sheet steel or heavy duty two-piece cast aluminum full base cover. All base covers are finished to match pole.

Anchor Base/ Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" blend on one end. All anchor bolts are hot-dipped galvanized a minimum of 12" nominal on the threaded end. Anchor bolts are made of steel rod having a minimum yield strength of 55,000 psi and a yield strength of 75,000 psi to 95,000 psi.

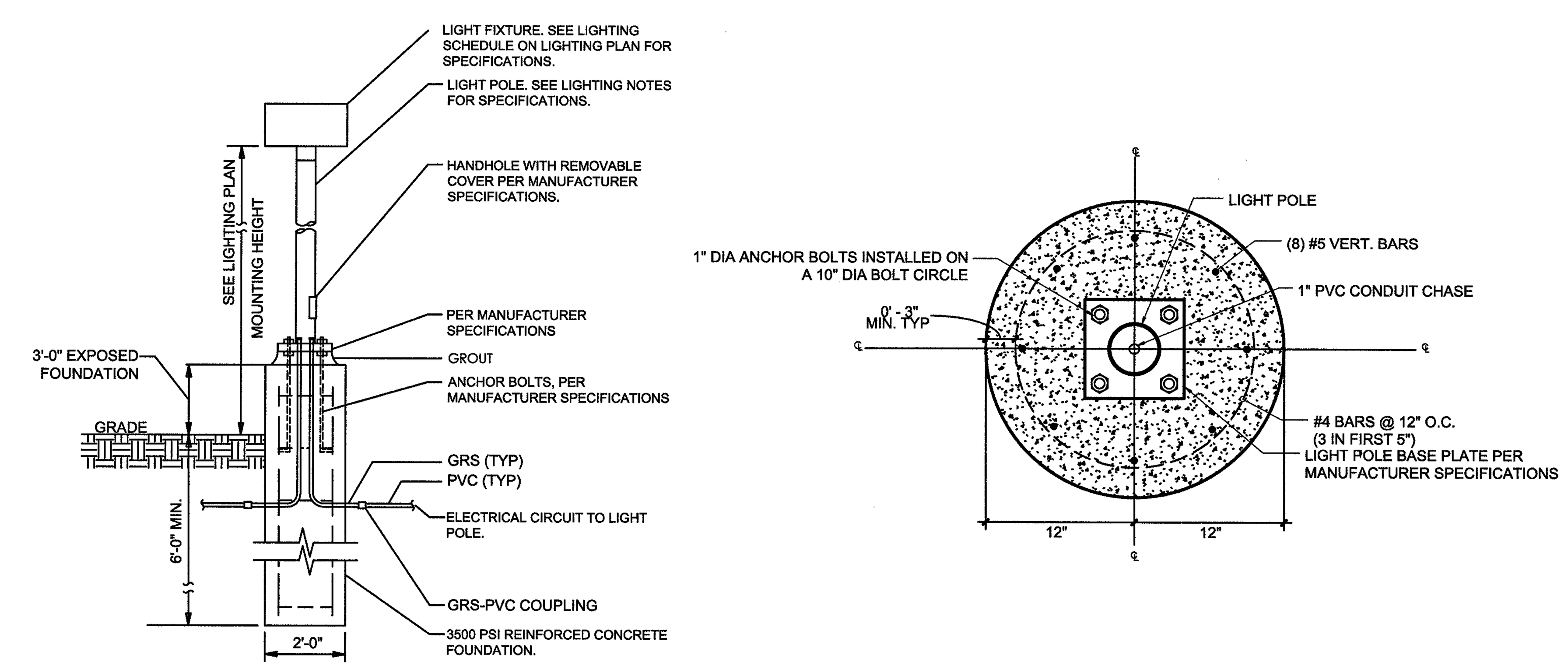
Hardware – All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

Finish – Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to: Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

WARRANTY — 1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

OUTDOOR POLE-RSS



LIGHT POLE DETAIL

MSD BASE MAP #17T
MSD P# 19MSD-00273

CORE STATES GROUP
6500 Chippewa Street Suite 200
St. Louis, MO 63109
Phone (314) 843-4320
PBennett@core-eng.com

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CHASE

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REVISIONS

REV	DATE	COMMENT	BY
1	8/07/19	SITE DEVELOPMENT SECTION PLAN	CDF
2	08/08/19	PER MSD COMMENT	CDF
3	09/11/19	PER CITY COMMENT	CDF

DOCUMENT
CIVIL CONSTRUCTION DOCUMENTS FOR CHASE BANK

SITE LOCATION
16985 CHESTERFIELD AIRPORT ROAD
CHESTERFIELD, MO 63055

ENGINEER SEAL
STATE OF MISSOURI
CHAD D. FAIRBANKS
NUMBER E-2001018726
REGISTERED PROFESSIONAL ENGINEER
9-11-19

SHEET TITLE
LIGHTING DETAILS

JOB #:	JPM.26022
DATE:	06-17-19
SCALE:	N/A
DRAWN BY:	ZPM
CHECKED BY:	CDF

SHEET NO.
C13

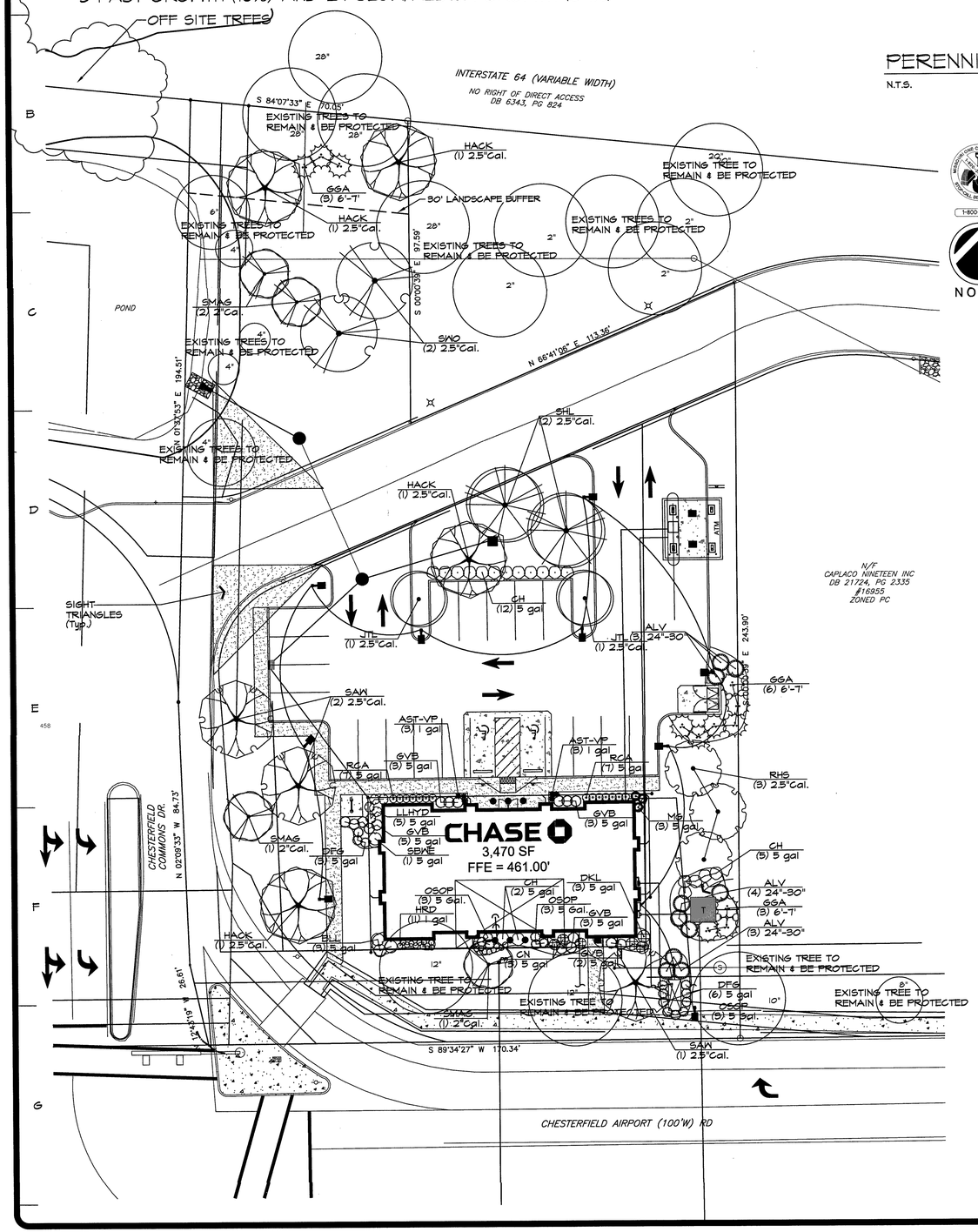
User: CFAIRBANKS Plot Date/Time: Sep. 11, 19 - 10:50:46 Drawing: C:\Users\cfairbanks\appdata\local\temp\AcPublish_10196\JPM-26022-P-DETL.dwg ;C13 - LIGHTING DETAILS

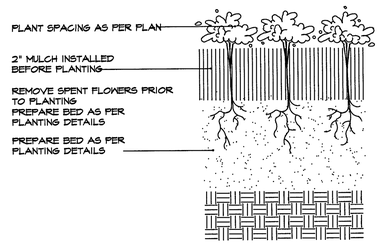
- NOTE: NO PARKING SPACE SHALL BE FURTHER THAN FIFTY (50) FEET FROM A TREE.

TREE GROUPINGS:
A MINIMUM OF 20% OF TREES SHALL COME FROM THREE CATEGORIES:
DECIDUOUS / ORNAMENTAL / EVERGREEN

TYPE	QTY.	PERCENTAGE
DECIDUOUS:	11	34%
ORNAMENTAL:	9	28%
EVERGREEN:	12	38%

5 FAST GROWTH (16%) AND 27 SLOW/MEDIUM GROWTH (84%)





PERENNIAL / ANNUAL PLANTING

N.T.S.

PLEASE NOTE:

- ALL PLANTING BEDS TO BE EDGED W/ SPADE-CUT EDGE UNLESS OTHERWISE NOTED.
- ADJUST TREE LOCATIONS FOR LIGHT STANDARDS AND UNDERGROUND UTILITIES.
- NO TREES OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN 6 FEET OF FIRE HYDRANTS.
- ALL SHRUBS/PERENNIALS WITHIN SIGHT TRIANGLE ZONES TO BE MAINTAINED AT A MAXIMUM HEIGHT OF TWENTY FOUR INCHES (2 FEET); ALL TREES TO BE MAINTAINED WITH A CLEAR HEIGHT FROM GRADE OF TEN (10) FEET.

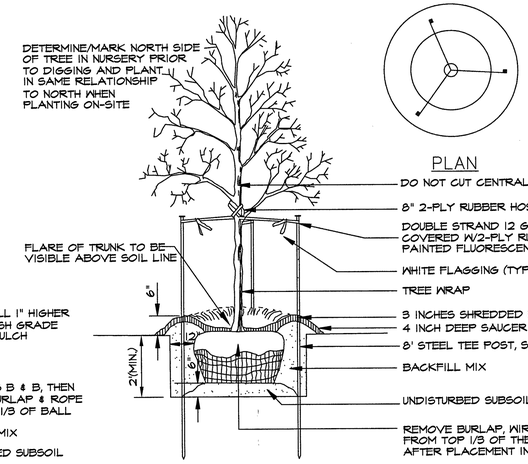
SITE COVERAGE CALCULATIONS:

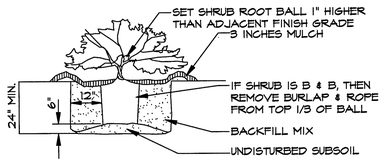
TOTAL SITE	44,869 S.F.	100%	(1.030 ACRES)
BUILDING	3,470 S.F.	8%	(0.079 ACRE)
OPENSPACE	20,249 S.F.	45%	(0.465 ACRES)
PAVEMENT	21,150 S.F.	47%	(0.485 ACRES)

DENOTES TREE TO BE PROTECTED AND TO REMAIN

0 20 40 60 feet
SCALE: 1" = 20'

NORTH





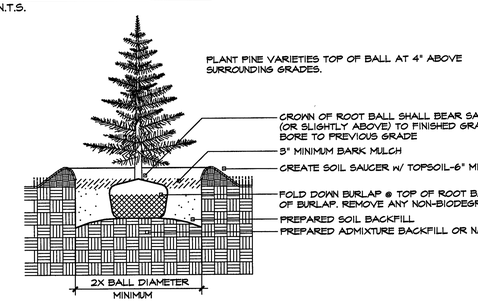
PRUNE ANY BROKEN BRANCHES AFTER PLANTING. DAMAGED SHRUBS OR BROKEN / CRUMBLING ROOT BALLS WILL BE REJECTED.

SHRUB PLANTING

N.T.S.

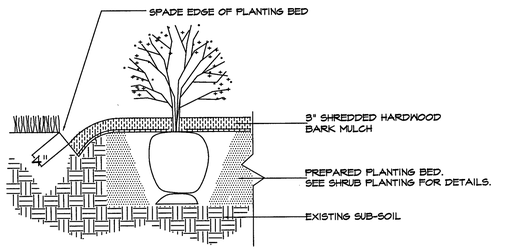
DECIDUOUS TREE PLANTING

N.T.S.



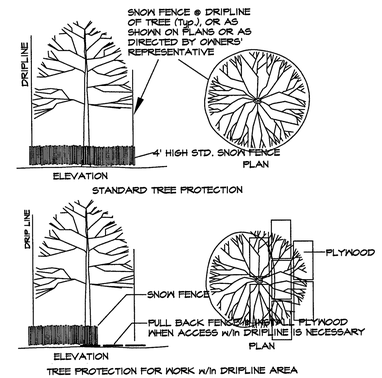
EVERGREEN TREE PLANTING

N.T.S.



SPADE-CUT EDGE DETAIL

N.T.S.



TREE PROTECTION DETAIL

N.T.S.

REVISIONS	BY
7/2/19	RMM
8/2/19	RMM
9/10/19	RMM
10/15/19	RMM

Landscape TECHNOLOGIES
67 Jacobs Creek Drive
Wentzville, Missouri 63385
(636) 639-2850
(636) 327-4464
MO Landscape Architectural Corporation #2006008152

STATE OF MISSOURI
RANDALL W. MARDIS
NUMBER 019
REGISTERED LANDSCAPE ARCHITECT
RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #2006019
DATE 10/15/19

LANDSCAPE PLAN FOR THE PROPOSED
Chase Bank
16985 CHESTERFIELD AIRPORT RD. CHESTERFIELD, MO

DRAWN	R. MARDIS
CHECKED	RMM/GJB
DATE	6/10/19
SCALE	1"=20'-0"
JOB No.	2019-142
SHEET	L-1

OF TWO SHEETS

PLANT_SCHEDULE																					
TREES	QTY	COMMON / BOTANICAL NAME	SIZE		Slow	Moderate	Fast	< 6"	6 - 18"	18 - 36"	> 3'	< 18"	3 - 6'	6 - 10'	10 - 15'	> 15'	< 15'	15 - 25'	25 - 40'	40 - 65'	> 65'
HACK	4	Common Hackberry / Celtis occidentalis	2.5"Cal.		X															X	
SAW	3	Sawtooth Oak / Quercus acutissima	2.5"Cal.			X														X	
SHL	2	'Skyline' Locust / Gleditsia triacanthos 'Skyline'	2.5"Cal.				X													X	
SWO	2	Swamp White Oak / Quercus bicolor	2.5"Cal.			X														X	
EVERGREEN TREES	QTY	COMMON / BOTANICAL NAME	SIZE		Slow	Moderate	Fast	< 6"	6 - 18"	18 - 36"	> 3'	< 18"	3 - 6'	6 - 10'	10 - 15'	> 15'	< 15'	15 - 25'	25 - 40'	40 - 65'	> 65'
GGA	12	Green Giant Arborvitae / Thuja plicata 'Green Giant'	6'-7'				X													X	
FLOWERING TREES	QTY	COMMON / BOTANICAL NAME	SIZE		Slow	Moderate	Fast	< 6"	6 - 18"	18 - 36"	> 3'	< 18"	3 - 6'	6 - 10'	10 - 15'	> 15'	< 15'	15 - 25'	25 - 40'	40 - 65'	> 65'
JTL	2	Ivory Silk Japanese Tree Lilac / Syringa reticulata 'Ivory Silk'	2.5"Cal.		X													X			
SMAG	4	Saucer Magnolia / Magnolia X soulangiana	2.5"Cal.			X													X		
RHS	3	Robin Hill Serviceberry / Amelanchier X grandiflora 'Robin Hill''	2.5"Cal.			X													X		
SHRUBS	QTY	COMMON / BOTANICAL NAME	SIZE		Slow	Moderate	Fast	< 6"	6 - 18"	18 - 36"	> 3'	< 18"	3 - 6'	6 - 10'	10 - 15'	> 15'	< 15'	15 - 25'	25 - 40'	40 - 65'	> 65'
ALV	10	Alleghany Leatherleaf Viburnum / Viburnum rhytidophyllum 'Alleghany'	24"-30"				X							X							
BLL	3	Bloomerang Lilac / Syringa x 'Penda'	5 gal			X							X								
CH	19	China Boy/Girl Holly / Ilex meserveae 'China Boy/Girl' TM	5 gal		X	X							X								
CN	3	Coppertina Ninebark / Physocarpus opulifolius 'Coppertina'	5 gal				X						X								
DKL	3	Dwarf Korean Lilac / Syringa meyeri 'Palibin'	5 gal			X							X								
GVB	16	Green Velvet Boxwood / Buxus 'Green Velvet'	5 gal			X				X											
LLHYD	5	Little Lime Hydrangea / Hydrangea paniculata 'Little Lime'	5 gal				X						X								
RCA	14	Rose Creek Abelia / Abelia x grandiflora 'Rose Creek'	5 gal			X				X											
SBWE	1	Sonic Bloom Weigela / Weigela florida 'Sonic Bloom'	5 gal				X						X								
ANNUALS/PERENNIALS	QTY	COMMON / BOTANICAL NAME	SIZE		Slow	Moderate	Fast	< 6"	6 - 18"	18 - 36"	> 3'	< 18"	3 - 6'	6 - 10'	10 - 15'	> 15'	< 15'	15 - 25'	25 - 40'	40 - 65'	> 65'
HRD	21	Happy Returns Daylily / Hemerocallis hybrid 'Happy Returns'	1 gal				X			X											
AST-VP	6	Visions in Pink Astilbe / Astilbe chinensis 'Visions in Pink'	1 gal			X			X	X											
GRASSES	QTY	COMMON / BOTANICAL NAME	SIZE		Slow	Moderate	Fast	< 6"	6 - 18"	18 - 36"	> 3'	< 18"	3 - 6'	6 - 10'	10 - 15'	> 15'	< 15'	15 - 25'	25 - 40'	40 - 65'	> 65'
DFG	9	Dwarf Fountain Grass / Pennisetum alopecuroides 'Hameln'	5 gal			X				X											
MG	3	Maiden Grass / Miscanthus sinensis 'Gracillimus'	5 gal				X						X								
ROSES	QTY	COMMON / BOTANICAL NAME	SIZE		Slow	Moderate	Fast	< 6"	6 - 18"	18 - 36"	> 3'	< 18"	3 - 6'	6 - 10'	10 - 15'	> 15'	< 15'	15 - 25'	25 - 40'	40 - 65'	> 65'
OSOP	9	Oso Easy Paprika Rose / Rosa x 'OSO Easy Paprika'	5 Gal.			X				X											

LANDSCAPE GUIDELINE SPECS:

GENERAL:

1.) All natural vegetation shall be maintained where it does not interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall at all times protect all materials and work against injury to public.
2.) The landscape contractor shall be responsible for any coordination and sequencing with other site related work being performed by other contractors. Refer to additional drawings for further coordination of work to be done.
3.) Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of the above (Call utility location services in municipality).
4.) Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to 6" depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.
5.) It shall be the landscape contractor's responsibility to:
   A.) Verify all existing and proposed features shown on the drawings prior to commencement of work.
   B.) Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
   C.) Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect ten (10) days prior to installation.
6.) Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will be accepted without written approval from the landscape architect.
7.) Provide single-stem trees unless otherwise noted in plant schedule.
8.) All plant material shall comply with the recommendations and requirements of ANSI Z60.1 "American Standards for Nursery Stock".
9.) It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect (or Owners' Representative) prior to acceptance. Inspections may take place before, during or after installation. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.
10.) All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning work. This will be a unit price contract; quotes shall be valid for 12 months.
11.) Should auger equipment be utilized in excavating any plant pits, vertical sides of plant pits shall be thoroughly scarified to avoid creation of "polished side walls" prior to plant material installation.
12.) All excess topsoil, rocks, debris and/or tainted soils shall be removed by the general contractor prior to point project is turned over to the landscape contractor to commence landscape installation.
13.) Keep all plant material (except turf) a minimum of 36" clear of fire hydrants.
14.) Landscape contractor shall kill & remove all existing weeds within the project site.
15.) All tags, nursery stakes, labels, etc. shall be removed by the landscape contractor at completion of all landscape installation.
16.) Landscape contractor shall be in compliance with all federal, state and local laws / regulations relating to insect infestation and/or plant diseases.
17.) All substitutions of plant material shall be submitted to landscape architect for approval.

PRUNING:

1.) Lightly prune trees at time of planting. Prune only the crossover limbs, intermingled leaders and/or any broken branches. Some interior twigs and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown.
2.) All pruning shall comply with ANSI A300 standards.

INSURANCE:

1.) The landscape contractor shall submit certificates of insurance for workman's compensation and general liability.

MULCH:

1.) All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free of all foreign materials, including weeds, mold, deleterious materials, etc.
2.) No plastic sheeting or filter fabric shall be placed beneath shredded bark mulch beds. Mirafi fabric shall be used beneath all gravel mulch beds. Lap fabric 6" over adjacent coverages.
3.) Edge all beds with spade-cut edge unless otherwise noted.

MAINTENANCE:

1.) Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period of 12 months after acceptance.
2.) Contractor shall ensure that only competent and trained personnel shall provide such services and that such services be provided in a timely manner.
3.) Watering of seeded or sodded lawns shall begin immediately and shall continue to be provided continuously for the following 72 hours. Regardless, the landscape contractor shall be resposible for all landscape maintenance until project turnover.

SIGHT TRIANGLES:

1.) No landscape material or other obstructions shall be placed or be maintained within the sight distance area so as not to impede the vision between a height of thirty inches (30") and ten feet (10') above the adjacent street or paving surfaces.
2.) Sight triangles at the intersection of a public street and a private access way (except for single family residences) shall also be formed by measuring from the point of intersection of the street frontage curbs and the entrance curb lines a distance of 35' and connecting the points so established to form the sight triangle area.

TOPSOIL:

1.) Topsoil mix for all proposed landscape plantings shall be five (5) parts well-drained screened organic topsoil to one (1) part Canadian sphagnum peat moss as per planting details. Roto-till topsoil mix to a depth of 6" minimum and grade smooth.
2.) Provide a soil analysis, as requested, made by an independent soil-testing agency outlining the % of organic matter, inorganic matter, deleterious material, pH and mineral content.
3.) Any foreign topsoil used shall be free of roots, stumps, weeds, brush, stones (larger than 1"), litter or any other extraneous or toxic material. Landscape contractor shall be fully responsible for correcting all negative soil issues prior to plant installation. Killing and removal of all weeds shall be the responsibility of the landscape contractor as part of this task.
4.) Landscape contractor to apply pre-emergent herbicide to all planting beds upon completion of planting operations and before application of shredded bark mulch.
5.) Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established.

TURF:

1.) All disturbed lawn areas to be seeded with a mixture of Turf-Type fescue (300# per acre) and bluegrass (18# per acre). Lawn areas shall be unconditionally warranted for a period of 90 days from date of final acceptance. Bare areas more than one square foot per any 50 square feet shall be replaced.
2.) Seed and fertilization operations shall occur between May 1 and June 15th or between September 1 and October 15th unless directed by others in writing AND irrigation system is operating.
3.) Granular or pelleted fertilizer consisting of 50% water-insoluble slow release nitrogen, phosphorous and potassium in a 12-12-12 composition.
4.) The turf contractor shall be responsible for protection of finished grade; restore and repair any erosion or water damage and obtain owners' approval prior to seeding or sod installation.
5.) Landscape contractor shall offer an alternate price for sod in lieu of seed. Sod shall be cut at a uniform thickness of 3/4". No broken pieces, irregular pieces or torn pieces will be accepted.
6.) Any points carrying concentrated water loads and all slopes of 15% or greater shall be sodded.
7.) All sod shall be placed a maximum of 24 hours after harvesting.
8.) Recondition existing lawn areas damaged by Contractor's operations including equipment/material storage and movement of vehicles.
9.) Sod Contractor to ensure sod is placed below sidewalk and all paved area elevations to allow for proper drainage.

WARRANTY:

1.) All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price.
2.) Any plant material found to be defective shall be removed and replaced within 30 days of notification or in growth season determined to be best for that plant.
3.) Only one replacement per tree or shrub shall be required at the end of the warranty period, unless loss is due to failure to comply with the warranty.
4.) Lawn establishment period will be in effect once the lawn has been mowed three times. Plant establishment period shall commence on the date of acceptance and 100% completion.
5.) A written guarantee shall be provided to the owner per conditions outlined in #1 above.

REVISIONS	BY
7/2/19	RMM
8/2/19	RMM
9/10/19	RMM
10/15/19	RMM

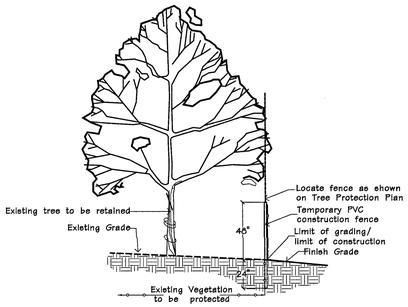
Landscape Technologies
611 Jacobs Creek Drive
Wentzville, Missouri 63385
(636) 828-1260
(636) 828-1269 Fax
MO Landscape Architectural Corporation #2006009782

STATE OF MISSOURI
REGISTERED LANDSCAPE ARCHITECT
RANDALL A. MARDIS
NUMBER 010
REGISTERED LANDSCAPE ARCHITECT

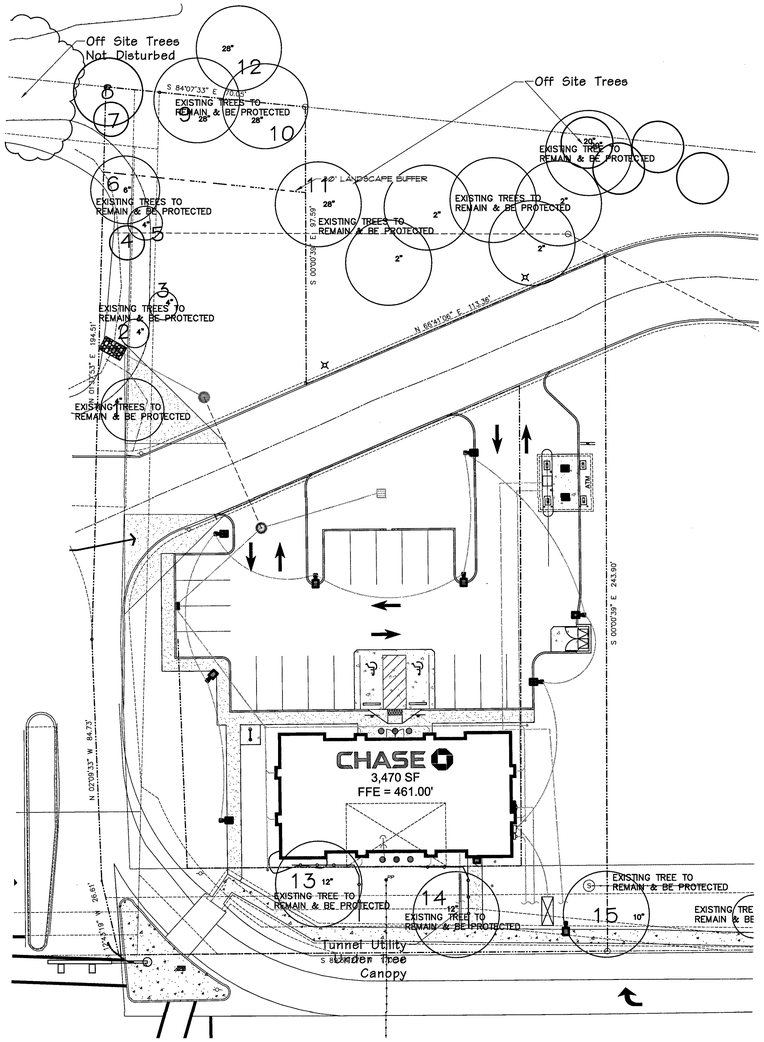
RANDALL A. MARDIS
MISSOURI LANDSCAPE ARCHITECT #2006009
DATE 10/15/19

LANDSCAPE PLAN FOR THE PROPOSED
Chase Bank
16985 CHESTERFIELD AIRPORT RD. CHESTERFIELD, MO

DRAWN	R. MARDIS
CHECKED	RAM/GJB
DATE	6/10/19
SCALE	N.A.
JOB No.	2019-142
SHEET	L-2
OF	TWO SHEETS



TREE PROTECTION DETAIL
n.t.s.



Tree Preservation Plan
SCALE 1" = 20'-0"

TREE PROTECTION ACTION KEY SEQUENCE:

1) Survey limit of disturbance.

2) Install tree protection fencing.

3) Post tree protection signage on fence (No signs will be posted on trees).

4) Maintain tree protection area as an off-limits zone.

TREE PROTECTION NOTES:

1) Pre-construction meeting to be held on-site to include a presentation of tree protection measures to operators; construction supervisors; developer's representative; and city zoning inspector.

2) Clearing limits shall be rough staked or marked by the applicant's surveyor in order to facilitate location for trenching and fencing installation.

3) *No early maintenance schedule is required. Where noted on plan, contractor to trench and root* prune prior to any grading activity. Required siltation devices to be installed along limit of disturbance line.

4) No clearing or grading shall begin in areas where the treatment and preservation measures have not been completed including the installation of tree protection fencing along all "Limit of Disturbance" lines shown on the plan.

5) Tree Protection Fencing shall be 4-foot high temporary plastic construction fence. No equipment traffic/parking, concrete washout, material storage or other such construction activity shall be permitted to penetrate the protection fencing or disrupt the Protected Woodland Area except for the removal of dead or invasive plant material. Any proposed plantings shall be subject to the review and approval of the City Arborist. All ground plane shall be mulched with hardwood bark mulch. Tree Protection Signage will be placed along the Protection Fencing as shown as the dashed line on the plan.

6) Tree protection measures to be maintained throughout construction sequence.

Chase Bank

Number	Common Name	DBH Of Trunk	Canopy Area	Condition Rating	Comments
1	Austrian Pine	11	154	4	
2	Norway Spruce	8	80	4	
3	Norway Spruce	8	80	4	
4	Red Maple	6	254	3	
5	Red Maple	5	78	2	
6	Red Maple	6	254	3	
7	Austrian Pine	9	153	2	
8	Sycamore	12	452	3	
9	Bald Cypress	20	706	4	
10	Bald Cypress	20	706	4	
11	River Birch	6-8	452	3	Multi Stem
13	Honeylocust	5	314	3	
14	Honeylocust	5	314	3	
16	Honeylocust	6	314	3	
		Total	4,311		

CONDITION RATING:
1=Poor Quality
3=Average Quality
5=Excellent Quality

TREE PROTECTION SUMMARY

Total Site Area: 1.03 AC. (44,945 sf)
Existing Tee Canopy: 4,311 sf
30% preservation requirement: 1,293 sf
Existing Trees to Remain: 4,311 sf (100 %)

LEGEND

109 — Tree Remaining / Reference Number

STATE OF MISSOURI
DOUGLAS A DeLONG
NUMBER LA-81
LANDSCAPE ARCHITECT
09/11/2019
Douglas A. DeLong, Landscape Architect LA-81

Consultants:

Chase Bank
16985 Chesterfield Airport Rd.
Chesterfield, MO

Revisions:

Date	Description	No.
9/11/19	City Comments	1

Drawn: bad
Checked: dad

DeLong Landscape Architecture
7620 West Bruno Ave
St. Louis, MO. 63117
(314) 346-4856
delong.la@gmail.com
Missouri State Certificate of Authority: #2013000146

Sheet Title: Tree Protection Plan
Sheet No: TPP
Date: 08/02/2019
Job #: 135.018

NORTH ELEVATION
(PARKING LOT)

SOUTH ELEVATION
(CHESTERFIELD AIRPORT RD)

0 2 4 8 FT

PAINT - EPT1
APPLICATION: EXTERIOR MATERIAL
COLOR: MATCH TO SHERWIN WILLIAMS SW-7045 "INTELLECTUAL GRAY"

PAINT - EPT2
APPLICATION: EIFS
COLOR: TO MATCH SHERWIN WILLIAMS SW-7036 "ACCESSIBLE BEIGE"

PAINT - EPT4
APPLICATION: EIFS
COLOR: TO MATCH SHERWIN WILLIAMS SW-6108 "LATTE"

ROOF
APPLICATION: ASPHALT SHINGLES
COLOR: WEATHERED WOOD

MULLIONS
APPLICATION: EXTERIOR MATERIAL
COLOR: ANNODIZED ALUMINUM

STONE - ST1
APPLICATION: SAVANNA STONE
COLOR: LIMESTONE #3

METAL
APPLICATION: CANOPY/TRIM
COLOR: BLUE

BRICK BR-2
APPLICATION: EXTERIOR
COLOR: TO MATCH ADJACENT SHOPPING CENTER

CHASE
J.P. MORGAN CHASE
CHESTERFIELD
16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
382200P316271

CORE STATES GROUP

STATE OF MISSOURI
ROBERT BRUCE LASURS
NUMBER A-7504
REGISTERED ARCHITECT
09/10/2019

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

PRELIMINARY PLANNING SUBMITTAL - NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
		PLANNING BOARD

RECEIVED
NOV 21 2019
City of Chesterfield
Department of Public Services

PROJECT INFORMATION

PROJECT NO:	JPM.26022
DATE:	08/02/2019
PROTOTYPE:	**18.2**
DRAWN BY:	K.SCHOPP
CHECKED BY:	B.LASURS
SCALE:	1/4" = 1'-0"

SHEET TITLE

PROPOSED ELEVATIONS

SHEET NUMBER

EL-01

WEST ELEVATION
(CHESTERFIELD COMMONS DR)

EAST ELEVATION
(DRIVE-UP ATM)

0 2 4 8 FT

PAINT - EPT1
APPLICATION: EXTERIOR MATERIAL
COLOR: MATCH TO SHERWIN WILLIAMS
SW-7045 "INTELLECTUAL GRAY"

PAINT - EPT2
APPLICATION: EIFS
COLOR: TO MATCH SHERWIN WILLIAMS
SW-7036 "ACCESSIBLE BEIGE"

PAINT - EPT4
APPLICATION: EIFS
COLOR: TO MATCH SHERWIN WILLIAMS
SW-6108 "LATTE"

ROOF
APPLICATION: ASPHALT SHINGLES
COLOR: WEATHERED WOOD

MULLIONS
APPLICATION: EXTERIOR MATERIAL
COLOR: ANNODIZED ALUMINUM

STONE - ST1
APPLICATION: SAVANNA STONE
COLOR: LIMESTONE #3

METAL
APPLICATION: CANOPY/TRIM
COLOR: BLUE

BRICK BR-2
APPLICATION: EXTERIOR
COLOR, TO MATCH ADJACENT
SHOPPING CENTER

CHASE

J.P. MORGAN CHASE
CHESTERFIELD
16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
382200P316271

CORE STATES GROUP

STATE OF MISSOURI
ROBERT BRUCE LASURS
NUMBER A-7504
REGISTERED ARCHITECT
09/10/2019

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PRELIMINARY PLANNING SUBMITTAL - NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
1	02/20/2019	ISSUE TO PLANNING BOARD

PROJECT INFORMATION

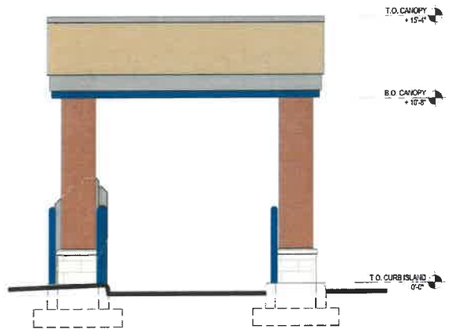
PROJECT NO:	JPM.26022
DATE:	08/02/2019
PROTOTYPE:	18.2
DRAWN BY:	K.SCHOPP
CHECKED BY:	B.LASURS
SCALE:	1/4" = 1'-0"

SHEET TITLE

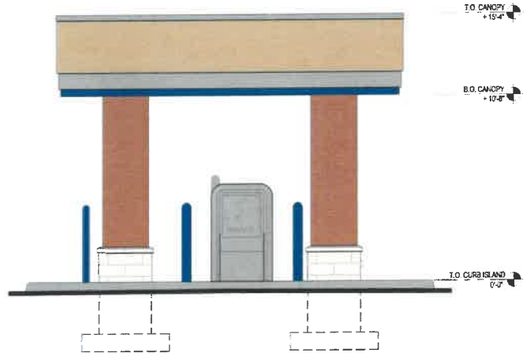
PROPOSED ELEVATIONS

SHEET NUMBER

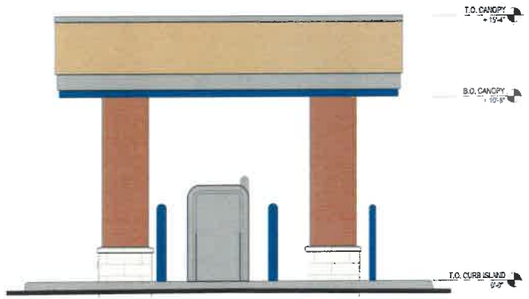
EL-02



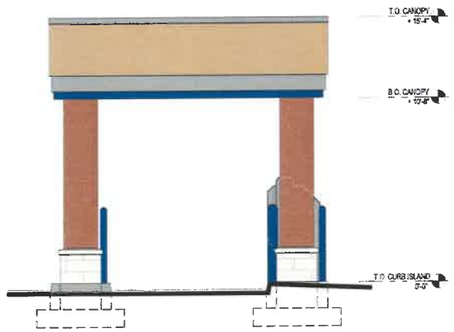
SOUTH ELEVATION
(ENTRANCE)



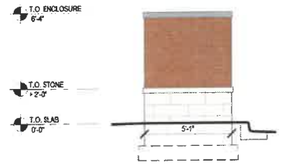
EAST ELEVATION
(ATM)



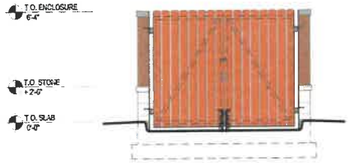
WEST ELEVATION
(PARKING LOT)



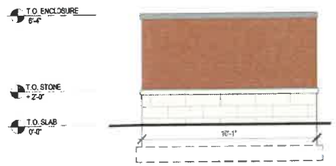
NORTH ELEVATION
(EXIT)



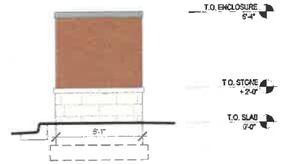
NORTH ELEVATION
(SIDE)



WEST ELEVATION
(FRONT)



EAST ELEVATION
(REAR)



SOUTH ELEVATION
(SIDE)

0 2 4 8 FT

PAINT - EPT1
APPLICATION: EXTERIOR MATERIAL
COLOR: MATCH TO SHERWIN WILLIAMS
SW-7045 "INTELLECTUAL GRAY"

PAINT - EPT2
APPLICATION: EIFS
COLOR: TO MATCH SHERWIN WILLIAMS
SW-7036 "ACCESSIBLE BEIGE"

PAINT - EPT4
APPLICATION: EIFS
COLOR: TO MATCH SHERWIN WILLIAMS
SW-6082 "ATTE"

ROOF
APPLICATION: ASPHALT SHINGLES
COLOR: WEATHERED WOOD

MULLIONS
APPLICATION: EXTERIOR MATERIAL
COLOR: ANNODIZED ALUMINUM

STONE - ST1
APPLICATION: SAVANNA STONE
COLOR: LIMESTONE #3

METAL
APPLICATION: CANOPY/TRIM
COLOR: BLUE

BRICK BR-2
APPLICATION: EXTERIOR
COLOR: TO MATCH ADJACENT
SHOPPING CENTER

FENCE
COLOR: CEDAR

CHASE

J.P. MORGAN CHASE
CHESTERFIELD
16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
38200P316271

CORE STATES GROUP

STATE OF MISSOURI
ROBERT BRUCE LASURS
NUMBER A-7504
REGISTERED ARCHITECT

09/10/2019

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SEPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

PRELIMINARY PLANNING SUBMITTAL - NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
1	02/20/2019	ISSUE TO PLANNING BOARD

PROJECT INFORMATION

PROJECT NO:	JPM.26022
DATE:	08/02/2019
PROTOTYPE:	1B.2
DRAWN BY:	K.SCHOPP
CHECKED BY:	B.LASURS
SCALE:	1/4" = 1'-0"

SHEET TITLE

PROPOSED DRIVE THRU ATM & TRASH ENCLOSURE ELEVATIONS

SHEET NUMBER

EL-03

CHASE

JP MORGAN CHASE, N.A.

CHESTERFIELD AIRPORT RD.

CHESTERFIELD

16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
CHASE OVP#: 38200P316271

CORE STATES GROUP

CHASE

JP MORGAN CHASE, N.A.

RENDERING

CHESTERFIELD

16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
CHASE OVP#: 38200P316271

CORE STATES GROUP

CHASE

JP MORGAN CHASE, N.A.

I-64 RENDERING

CHESTERFIELD

16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
CHASE OVP#: 38200P316271

CORE STATES GROUP

LOOKING NORTH TO SITE FROM CHESTERFIELD AIRPORT RD

LOOKING WEST TO SITE FROM CHESTERFIELD AIRPORT RD

CHASE
JP MORGAN CHASE, N.A.

PHOTOS
CHESTERFIELD
16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
CHASE OVP#: 38200P316271

CORE STATES GROUP

LOOKING EAST TO SITE FROM CHESTERFIELD AIRPORT RD

LOOKING SOUTH TO SITE FROM CHESTERFIELD AIRPORT RD

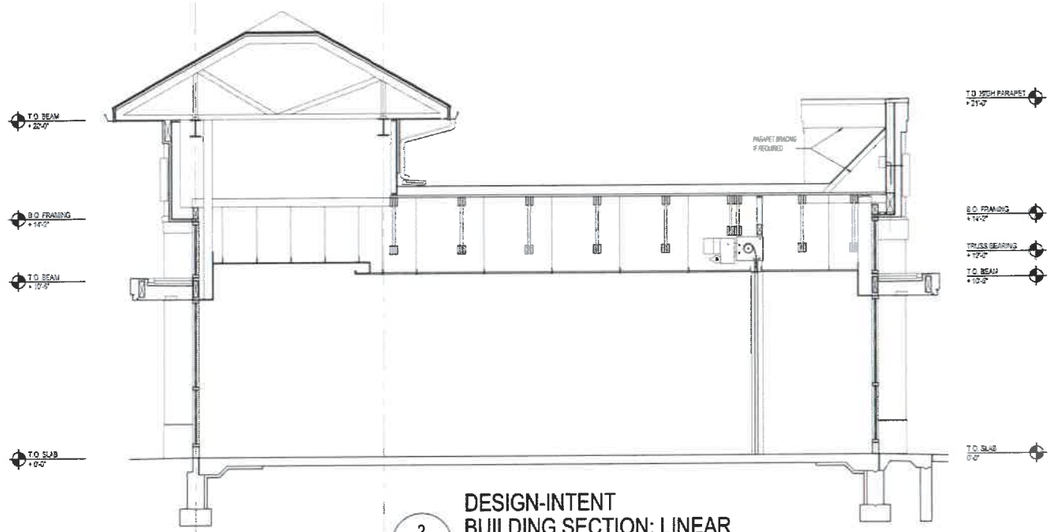
CHASE
JP MORGAN CHASE, N.A.

PHOTOS

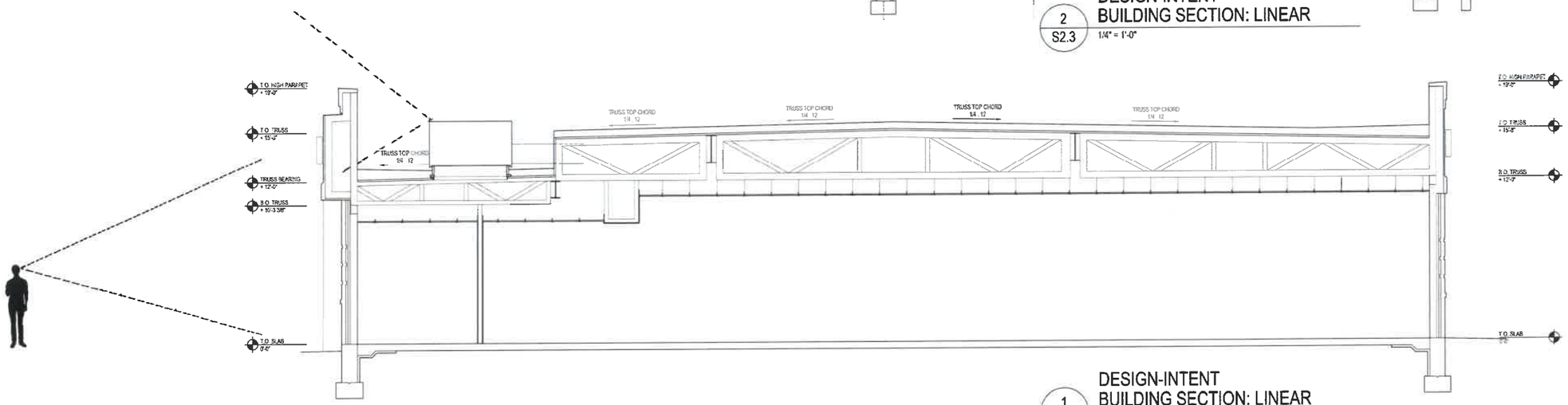
CHESTERFIELD

16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
CHASE OVP#: 38200P316271

CORE STATES GROUP



2 S2.3 DESIGN-INTENT BUILDING SECTION: LINEAR
1/4" = 1'-0"



1 S2.3 DESIGN-INTENT BUILDING SECTION: LINEAR
1/4" = 1'-0"

CHASE
J.P. MORGAN CHASE
CHESTERFIELD
16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
38200P3116271

CORE STATES GROUP

STATE OF MISSOURI
ROBERT BRUCE LASURS
NUMBER A-7504
REGISTERED ARCHITECT
08/02/2019

THESE DRAWINGS ARE NOT COMPLETE WITHOUT THE SSPARATE TYPE WRITTEN SPECIFICATIONS MANUAL WHICH ARE PART OF THE CONTRACT DOCUMENTS.

PRELIMINARY PLANNING SUBMITTAL - NOT FOR CONSTRUCTION

ISSUE	DATE	DESCRIPTION
1	02/20/2019	ISSUE TO PLANNING BOARD

PROJECT INFORMATION

PROJECT NO:	JPM.26022
DATE:	08/02/2019
PROTOTYPE:	**18.2**
DRAWN BY:	K.SCHOPP
CHECKED BY:	B.LASURS
VERSION:	1.00

SHEET TITLE

SHEET NUMBER

ROOF - RF-1
APPLICATION: ASPHALT SHINGLES
MANUFACTURER: CERTAINTEED
PRODUCT: INDEPENDENCE AR
COLOR: WEATHERED WOOD

BRICK VENEER - BR-2
APPLICATION: BRICK VENEER
MANUFACTURER: ACME BRICK COMPANY
PRODUCT: DENTON 150
COLOR: RED SUNSET

EIFS - EFIS-2
APPLICATION: EIFS ACCENT BANDS
MANUFACTURER: STO CORP.
PRODUCT: STOTHERM PREMIER NEXT
COLOR TO MATCH: SHERWIN-WILLIAMS #SW 7036
"ACCESSIBLE BEIGE"

EIFS - EIFS-4
APPLICATION: EIFS WALLS/PARAPET
MANUFACTURER: STO CORP.
PRODUCT: STOTHERM PREMIER NEXT
COLOR TO MATCH: SHERWIN-WILLIAMS #SW 6108
"LATTE"

PAINT - PCPL-2
APPLICATION: STUCCO
COLOR TO MATCH:
SHERWIN-WILLIAMS #SW 7036
"ACCESSIBLE BEIGE"

PAINT - PCPL-4
APPLICATION: STUCCO
COLOR TO MATCH:
SHERWIN-WILLIAMS #SW 6108
"LATTE"

STONE - ST-1
APPLICATION: CAST STONE-ROCKFACE FIELD UNITS
MANUFACTURER: HARVEY CEMENT PRODUCTS, INC.
PRODUCT: SAVANNA STONE
COLOR: LIMESTONE #3
FINISH: ROCKFACE

STONE - ST-2
APPLICATION: CAST STONE: STARTER COURSE AND
SMOOTH-FACE FIELD UNITS
MANUFACTURER: HARVEY CEMENT PRODUCTS, INC.
PRODUCT: SAVANNA STONE
COLOR: LIMESTONE #3
FINISH: SMOOTH

STONE - ST-3
APPLICATION: CAST STONE: SMOOTH-FACE SILLS,
CAPS, ETC. WITH BEVELED TOP FACE AND DRIP CUT
MANUFACTURER: HARVEY CEMENT PRODUCTS, INC.
PRODUCT: SAVANNA STONE
COLOR: LIMESTONE #3
FINISH: SMOOTH

CHASE
JP MORGAN CHASE, N.A.

EXTERIOR FINISHES

CHESTERFIELD

16897 CHESTERFIELD AIRPORT RD
CHESTERFIELD, MO 63005
CHASE OVP#: 38200P316271

CORE STATES GROUP

LIGHT SYMBOL
FROM LIGHTING PLAN: ○

Lumination™ LED Luminaires

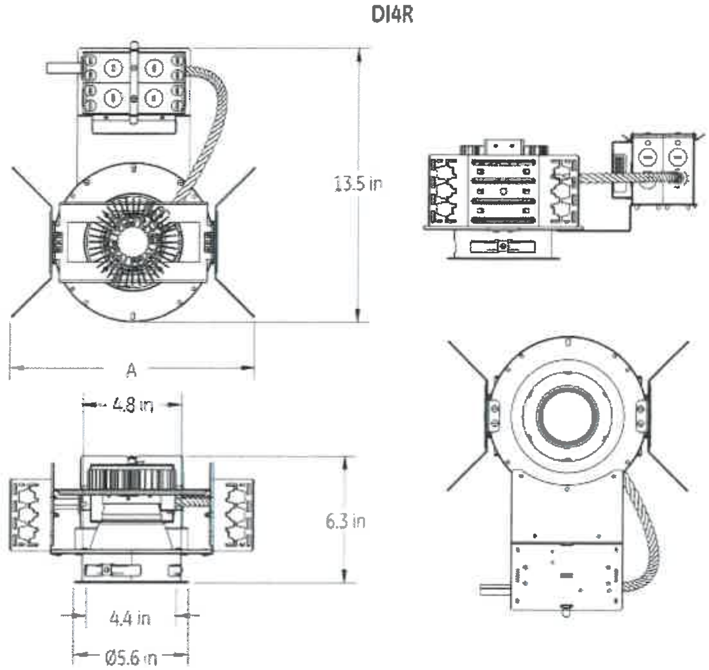
Downlights Powered by Infusion™
DI4R - 4" Round Aperture

Project name ______________
Date ______________
Type ______________

Product Description:

Lumination DI Series LED downlights are powered by the Infusion™ downlight module for exceptional efficacy and color rendering. Designed for new construction applications, the DI4R is available in four color temperatures and three lumen packages, all with 90+ CRI. Matching custom engineered reflectors ensure a 45 degree cutoff. The twist-in Infusion DLM LED module allows for tool-free replacement and upgrade as LED technology advances, ensuring the lowest total cost of ownership.

Product Dimensions:



Driver Option	Dimension A
10; PH; LU	12.0 in
TQ; DL	14.8 in

Performance Summary:

Distribution Patterns: Wide
Input Voltage: 120, 277V, 347V
Dimming Options: 0-10V, Phase Dimming, Lutron, Dali or Daintree to 10%
CCT: 2700K, 3000K, 3500K, 4000K
CRI: 90
Color Consistency: 4 Step MacAdam Ellipse
Lifetime Rating: L85 @ 50,000 Hrs
Input Frequency (Hz): 60Hz
Power Factor: >0.9
Mounting Options: Hanger bars for grid or drywall ceilings
Weight: 5.1 lb
IC Rating: Non-IC Rated
Limited Warranty: 5 years system
Files Available: LM79, LM80, IES, Revit

Nominal Module Lumens	1000	1500	2000	3000	4000
Delivered Lumen Output	870	1290	1750	2620	3426
System Input Power (W)	14	20	25	38	51
System Efficacy (LPW)	62	66	70	69	67
Emergency Mode Lumens	630	630	630	630	630

Daintree driver adds 1.4 Watts to System Input Power (W).

Listings: c UL us LISTED
- UL and cUL Listed.
- Suitable for damp locations.
- Wet Rated option standard.

DaintreeNetworks

Ordering Information: A complete fixture consists of a **Housing + Reflector**

For shortest lead times, order **standard reflector options shown in bold.**

a product of ecomagination

1. Housing - Example: DI4R209351V10

D I _ _   4 R _ _   _ _   _ _ _   _ _   _ _   _ _

LUMINAIRE SKU						
INTERNAL CODE	FIXTURE TYPE	MODULE LUMEN OUTPUT	CRI/CCT	VOLTAGE	DRIVER	OPTIONS
DI	4R = 4" Round Downlight	**10** = 1000 LM **15** = 1500 LM **20** = 2000 LM **30** = 3000 LM **40** = 4000 LM	**927** = 90CRI, 2700K **930** = 90CRI, 3000K **935** = 90CRI, 3500K **940** = 90CRI, 4000K	**1V** = 120V **2V**[4] = 277V **3V** = 347V	**10** = 0-10V Dimming Driver **PH**[10] = Phase Dimming **LU**[10] = Lutron EcoSystem **TQ**[8] = Daintree **DL**[9] = Dali	**(blank)** = None **EL**[4,5] = Bodine Emergency Backup with Remote Test Switch **H** = CCEA Chicago Plenum

2. Reflector - Example: RDI4RWSDWT

R _   DI4R _ _ _ _   W _   _ _   _ _   _ _   _ _

REFLECTOR SKU						
REFLECTOR	HOUSING TYPE	BEAM SPREAD	REFLECTOR FINISH	REFLECTOR COLOR	FLANGE FINISH	LENS OPTIONS
R = Reflector	**DI4R** = 4" Round	**W** = Wide 63°	**SD** = Semi-diffused **DF** = Diffused **SP** = Specular **PT** = Painted	**Blank** = Clear (no color) **WE**[1] = Wheat **PW**[1] = Pewter **GO**[1] = Gold **BL**[2] = Black **WT**[3] = White Paint	**WT** = White Paint **MR** = Match Reflector	**(blank)** = No Lens **WR**[6] = Wet Rated (clear and white paint only) **AG** = Anti-Glare

Accessories

ACCESSORIES	DESCRIPTION CODE	PRODUCT CODE
C-Channel Bar Hangers 25 1/4"	BH3	94890

Ordering Notes:

1. Wheat, pewter, and gold anodized reflector colors available in SD = Semi-Diffuse reflector finish only.
2. Black anodized reflectors available in DF = Diffused finish only.
3. White Painted reflectors only available in PT = Painted reflector finish and WT = White Paint flange finish.
4. 277V input, 1000 lumen version and all EL versions are not Energy Star certified.
5. EL option not available with 347V input voltage.
6. Wet Rated only available in wide beam spread. (WT and MR trim only)
7. Contact manufacturer for lead time and minimum order quantities.
8. Daintree driver not available with 347V input voltage, EL option and/or H=CCEA option.
9. Dali driver not available with 347V input voltage, EL option and/or H=CCEA option.
10. Phase dimming only available with 1000, 1500, and 2000 lumen packages. Lutron Ecosystem only available with 1000, 1500, and 2000 lumen packages.

Note: 5% less lumens when using anti-glare reflectors.

current
powered by GE

ROM LIGHTING PLAN:

D-Series Size 0
LED Area Luminaire

Catalog Number

Notes

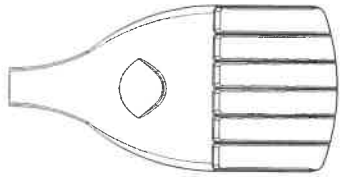
Type

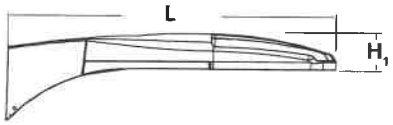
Introduction

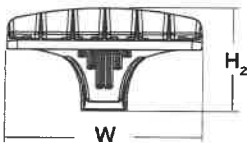
The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric 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 70% and expected service life of over 100,000 hours.

Specifications

EPA:	0.95 ft² (.09 m²)
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height$_1$:	3" (7.62 cm)
Height$_2$:	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)







A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P4 P7 P2 P5 P3 P6 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control[2] LCCO Left corner cutoff[2] RCCO Right corner cutoff[2]	MVOLT[3,4] 120[4] 208[4] 240[4] 277[4] 347[4,5] 480[4,5]	**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** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[7]

Control options		Other options	Finish
Shipped installed		**Shipped installed**	
NLTAIR2 nLight AIR generation 2 enabled[8,9]	PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[13,14]	HS House-side shield[16]	DDBXD Dark bronze
PIRHN Network, high/low motion/ambient sensor[10]	PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[13,14]	SF Single fuse (120, 277, 347V)[4]	DBLXD Black
PER NEMA twist-lock receptacle only (control ordered separate)[11]	PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[13,14]	DF Double fuse (208, 240, 480V)[4]	DNAXD Natural aluminum
PER5 Five-pin receptacle only (control ordered separate)[11,12]	PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[13,14]	L90 Left rotated optics[1]	DWHXD White
PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate)[11,12]	FAO Field adjustable output[15]	R90 Right rotated optics[1]	DDBTXD Textured dark bronze
DMG 0-10V dimming extend out back of housing for external control (control ordered separate)		DDL Diffused drop lens[16]	DBLBXD Textured black
		Shipped separately	DNATXD Textured natural aluminum
		BS Bird spikes[17]	DWHGXD Textured white
		EGS External glare shield[17]	

Ordering Information

Accessories

Ordered and shipped separately.

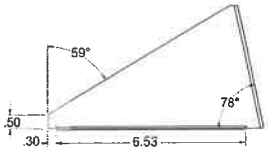
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [18]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [18]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [18]
DSHORT SBK U	Shorting cap [18]
DSX0HS 20C U	House-side shield for P1,P2,P3 and P4 [16]
DSX0HS 30C U	House-side shield for P10,P11,P12 and P13 [16]
DSX0HS 40C U	House-side shield for P5,P6 AND P7 [16]
DSX0DDL U	Diffused drop lens (polycarbonate) [16]
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) [19]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [6]

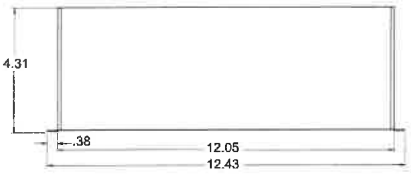
For more control options, visit DTL and ROAM online. Link to nLight Air 2

NOTES

1 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
2 Not available with HS or DDL.
3 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
4 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
5 Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
6 Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
7 Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
8 Must be ordered with PIRHN.
9 Sensor cover available only in dark bronze, black, white and natural aluminum colors.
10 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link.
11 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
12 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
13 Reference Motion Sensor table on page 3.
14 Reference PER Table on page 3 to see functionality.
15 Not available with other dimming controls options.
16 Not available with BLC, LCCO and RCCO distribution.
17 Must be ordered with fixture for factory pre-drilling.
18 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
19 For retrofit use only.

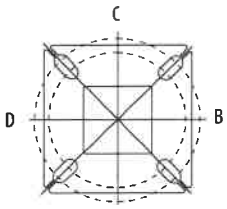
EGS – External Glare Shield



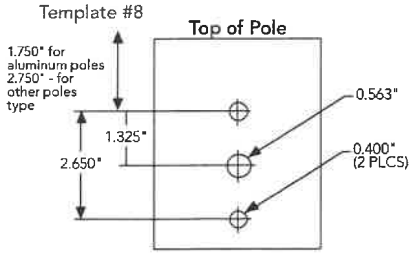


Drilling

HANDHOLE ORIENTATION
(from top of pole)



Template #8



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

Mounting Option	**Drilling Template**	**Single**	**2 @ 180**	**2 @ 90**	**3 @ 90**	**3 @ 120**	**4 @ 90**
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomendature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

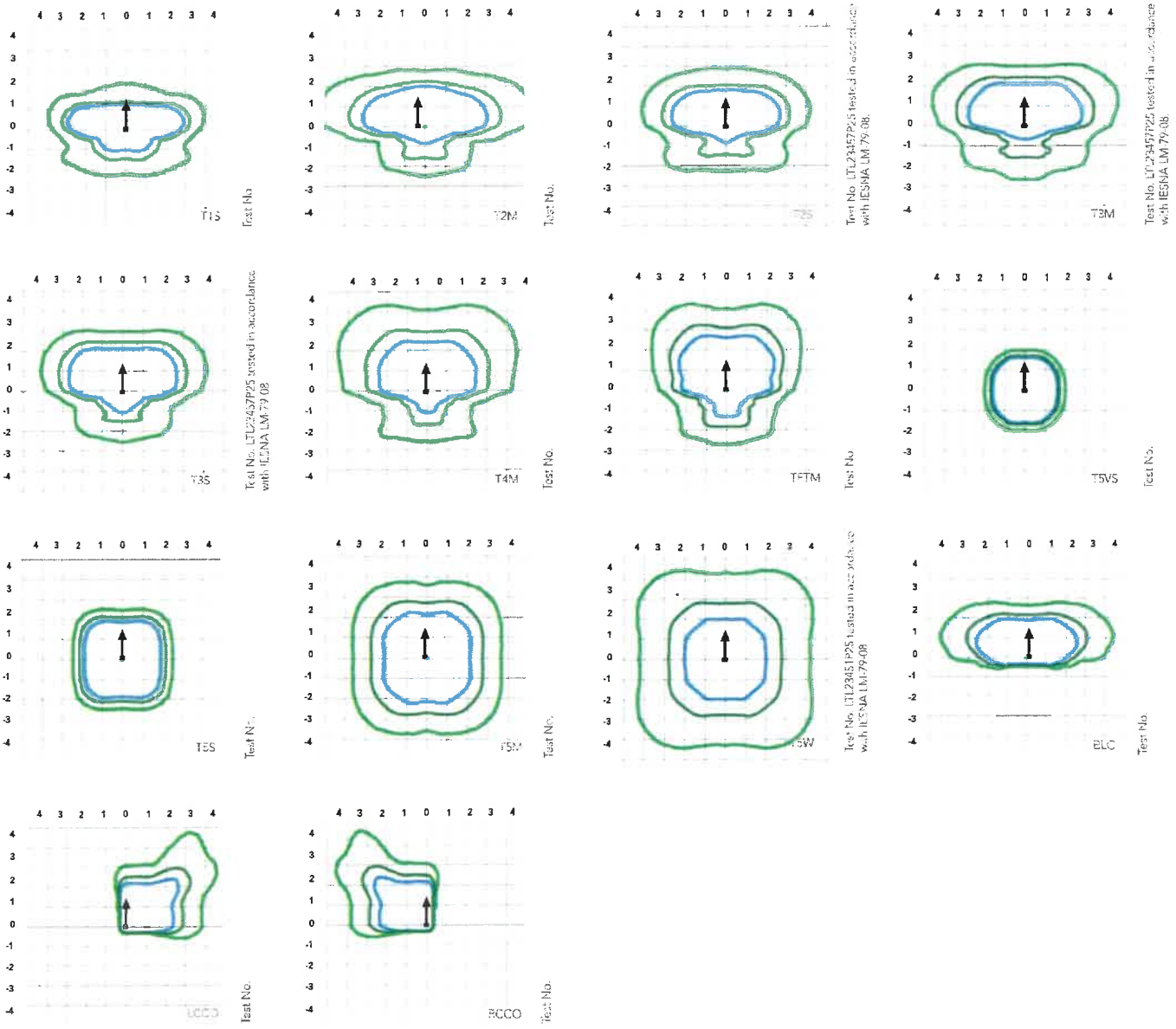
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 0 homepage.

Isofootcandle 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



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	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

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	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min
*for use with separate Dusk to Dawn or timer.						

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Controls Options

Nomenclature	Descripton	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the lumiaire; wired to the driver dimming leads.	Allows the lumiaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independantly for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two seperately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBOR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRity Pro app.

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

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				T5VS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				T5S	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				T5M	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				T5W	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124
				T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125
				T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				T5VS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				T5S	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				T5M	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				T5W	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				T5VS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				T5S	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				T5M	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				T5W	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				T5VS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				T5S	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				T5M	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				T5W	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
					5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

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

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				T5VS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				T5S	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				T5M	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				T5W	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				T5VS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				T5S	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				T5M	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				T5W	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				T5VS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				T5S	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				T5M	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				T5W	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

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.

Rotated Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				T5VS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				T5S	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				T5M	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				T5W	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T2M	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T3S	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T3M	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				T5VS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				T5S	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				T5M	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				T5W	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCCO	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCCO	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				T5VS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				T5S	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				T5M	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				T5W	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T2M	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T3S	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T3M	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				T5VS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				T5S	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				T5M	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				T5W	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7919	3	0	3	62	8531	3	0	3	67	8639	3	0	3	67
				LCCO	5145	1	0	2	40	5543	1	0	2	43	5613	1	0	2	44
					5139	3	0	3	40	5536	3	0	3	43	5606	3	0	3	44

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[1]

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

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 pedestrian areas.

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 (0.95 ft^2) 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 3000 K, 4000 K 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 L85/100,000 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 surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

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 (template #8). Optional terminal block 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) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/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.

EMLED Series - EUE

LIGHT SYMBOL FROM LIGHTING PLAN:

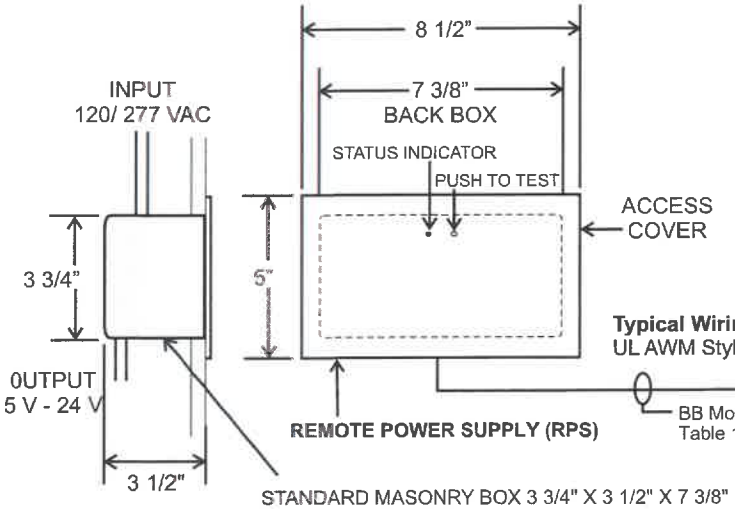
Mullion Mount LED Outdoor Egress with Remote Power Supply

BENEFITS & FEATURES

- Extremely low profile, formed aluminum housing
- Illuminates a uniform 12' x 25' area providing safe and effective outdoor emergency egress lighting
- 10 watt Cree LEDs
- Pure white light output of 5600K
- Wet location listed to UL924 and IP66 standards
- Maintenance-free NiCad battery, standard
- Uses a Remote Battery Supply
- Optical LED lens coupled with prismatic polycarbonate lens for optimal light output and protection
- Optional security/night lighting (SEC) allows the fixture to be used as an emergency lighting and as security/night lighting
- Power supply delivers regulated current and voltage to LED lamps at optimum levels to maximize lamp life
- Standard finish: White, Brushed Aluminum, Dark Bronze
- External LED status indicator/ Test Button on Remote Power Supply
- 120-277 volt, 50/60Hz input
- IES photometric data available
- 5 year warranty
- Ambient Temperature Limits: -40° C to +50° C

Architectural Mullion Mount Emergency Light
Operating in emergency mode or optional normal- on, this fixture is designed to mount directly on structural mullion beams used in typical glass-fronted entrances, with vertical surface as small as 2". This fixture has full 90° cut-off and will provide efficient emergency lighting in front of egress doorways, or along extended pathways.

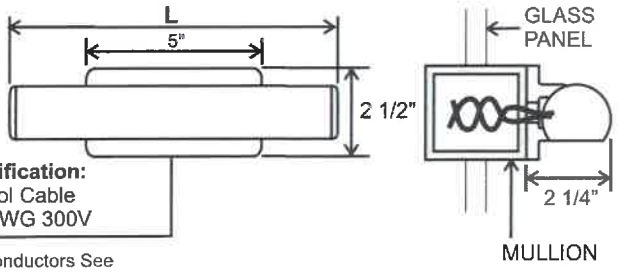
MOUNTING DATA & DIMENSIONS:



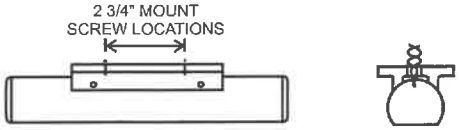
STANDARD MASONRY BOX 3 3/4" X 3 1/2" X 7 3/8"
(SUPPLIED BY OTHERS)

TYPICAL STOCK MODELS:
CROUSE HINDS #TP693
RACO # 698

WALL MOUNT



TOP MOUNT



ORDERING INFORMATION

MODEL	OPERATION	POWER	HOUSING COLOR	MOUNT	OPTIONS
EUE	BB = Battery Backup	10 = 10 Watts	W = Satin White	T = Top	DG= Self-Test Diagnostics (BB Models Only)
			A = Aluminum	W = Wall	SB120= Security Lighting with Control Switch for Standard BB Operation (120V)
			DB = Dark Bronze		SD277= Security Lighting with Control Switch for Standard BB Operation (277V)
			CC= Custom		SD= Security Lighting with Control Switch for BB Operation with DG option (120/277V)
					CW1= Custom Window Filter- 3800K
					CW2= Custom Window Filter- 3200K
					2HT= 2" Canopy Height
					5HT= 5" Canopy Height

Ordering Example: EUE-BB-10-W-T-DG

EMLED Series - EUE

Mullion Mount LED Outdoor Egress with Remote Power Supply

REMOTE POWER SUPPLY (RPS)

The Remote Power Supply is capable of powering the EUE mullion mount unit. The RPS can be mounted in any accessible wall or ceiling. A removable cover allows easy access to the electronics for service.

SECURITY LIGHTING OPTION

The Security Lighting Option allows the fixture to be used both as an emergency lighting fixture and security/night lighting fixture. Models with battery backup and the security lighting option will operate each LED at 2 Watts offering 50% output when in security lighting mode when connected to the active building AC supply and wired according to the installation instructions. The security lighting circuit is independent of emergency lighting and may be switched manually by exterior photocell (supplied by others) or other automatic means.

ELECTRONICS

- Isolated, all solid state power supply with 2- wire universal input from 120 VAC to 277 VAC with precise current and voltage regulation.
- Power supply is surge and spike protected, with a low voltage disconnect.
- The complete power supply module withNICAD battery pack is sealed within a phenolic plastic enclosure. AC and DC wiring is quickly attached with plug connectors.

DIAGNOSTICS OPTION

- An advanced microprocessor monitors all charger functions and battery condition continuously and automatically performs all tests and visual indications required by UL Standard 924.

CODES

- Manufactured and tested to UL Standard 924. Conforms to NFPA Life Safety Code 101, UBC and NEC.

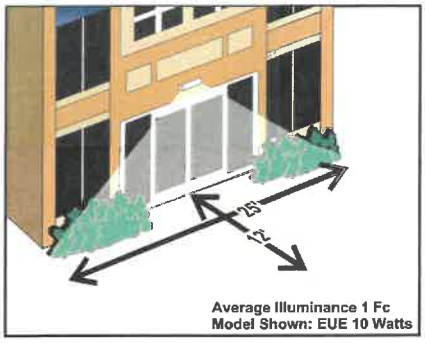
WARRANTY

- 5 year total customer satisfaction warranty.

DESIGNED & MANUFACTURED IN THE USA

Intertek
CONFORMS TO
UL 924/ CSA 22.2 #141

SPACING GUIDE



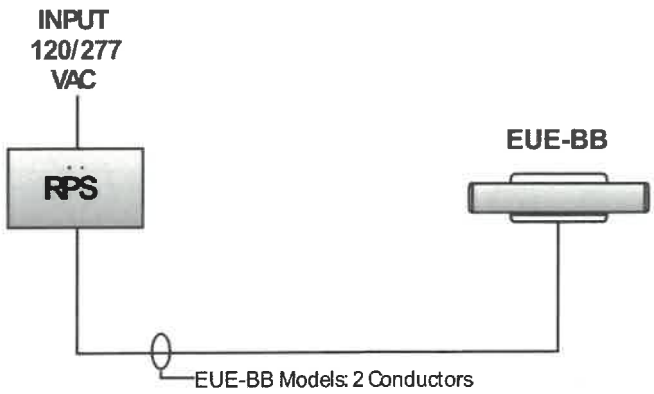
NOTE: FOR REFERENCE ONLY. STANDARD REFLECTANCES 80/50/20. MULE IS NOT RESPONSIBLE FOR SPECIFIC CONDITIONS THAT MAY ALTER THE RESULTS.

SELF- TEST DIAGNOSTIC FUNCTIONS
BB MODELS WITH DG FUNCTION

STATUS	LED DISPLAY
NORMAL FULL CHARGE	GREEN ON
NORMAL FAST CHARGE	ORANGE ON
FAILED BATTERY	RED FLASH FAST
FAILED LAMP	GREEN FLASH
FAILED TRANSFER	ORANGE FLASH
FAILED CHARGER	RED FLASH SLOW

TABLE 1

MAX WIRING LENGTH FROM RPS TO FIXTURE EUE-BB Models	
WIRING SIZE AWG	LENGTH (FT) EUE-BB
#20	100
#18	170
#16	225



Ordering Number Logic

Evolve™ LED Recessed Canopy Light (ECRA)

LIGHT SYMBOL
FROM LIGHTING PLAN:

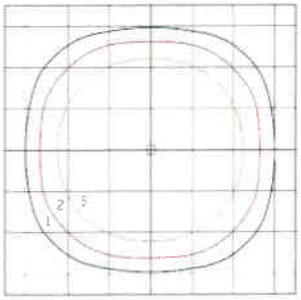
E C R A _ _ _ _ F 5 _ _ _ B _ _ _ _ _ _ _

PRODUCT ID	PRODUCT GENERATION	VOLTAGE	OPTICAL CODE	LENS TYPE	DRIVE CURRENT	LED COLOR TEMP	MOTION SENSOR/ PE FUNCTION	MOUNTING	COLOR	OPTIONS
E = Evolve C = Canopy R = Recessed	A = Photometric Series "A"	0 = 120 - 277 H = 347-480V* * See below table for available options		F = Flat Lens	5 = 525mA	40 = 4000K 50 = 5000K	1 = None 4 = Motion Sensor and Integral Photocell* * Must order with 10kV surge protection Option "R"	B = 12" Recessed Mount	WHTE = White BLCK = Black DKBZ = Dark Bronze Contact manufacturer for additional colors.	D = Dimmable (0-10 Volt Input) † 002 = Non-Dimming with Junction Box D01 = Dimming with Junction Box R = 10kV/5kA Surge Protection M = NOM31 † Dimming leads will be provided and terminated with quick-disconnect terminals.

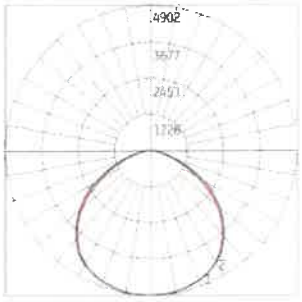
	PHOTOMETRIC TYPE	OPTICAL CODE	LENS TYPE	TYPICAL INITIAL LUMENS 4000K	TYPICAL INITIAL LUMENS 5000K	TYPICAL SYSTEM WATTAGE 120-277V	TYPICAL SYSTEM WATTAGE 347-480V	IES FILE NUMBERS 4000K	IES FILE NUMBERS 5000K
TYPE V	Symmetric Wide	A5	Flat Lens	4170	4230	35	NA	ECRA_A5F540___120-277V.ies	ECRA_A5F550___120-277V.ies
TYPE V	Symmetric Wide	B5	Flat Lens	8010	8110	64	64	ECRA_B5F540___.ies	ECRA_B5F550___.ies
TYPE V	Symmetric Wide	C5	Flat Lens	13410	13550	110	110	ECRA_C5F540___.ies	ECRA_C5F550___.ies

Photometrics

ECRA Type V - Symmetric Wide - Flat Lens
13,550 Lumens, 5000K ECRA_C5F550___.ies



Grid Distance in Units of Mounting Height of 15'
Initial Footcandle Values at Grade



— Vertical plane through horizontal angle of maximum candlepower at 60°
— Horizontal cone through vertical angle of maximum candlepower at 4°

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Check with factory for Canadian specifications. Round Straight Steel is a general purpose light pole for up to 30-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION — Pole Shaft: The pole shaft is of 0.120" uniform wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 42,000 psi. Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly round in cross-section down length of shaft with no taper. Standard shaft diameters are 3", 4", 4.5" and 5". 6" diameter shaft available by quote. Shaft wall thickness of .180" and .250" are available with certain tube diameters.

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable press-fit, black, low density polyethylene top cap.

Handhole: A reinforced handhole with grounding provision is provided at 12" from the base end of the pole assembly on side A. Every handhole includes a cover and cover attachment hardware. 2.5" x 5" rectangular handhole is provided on pole.

Base Cover: A two-piece ABS plastic full base cover is provided with each pole assembly. Additional base cover options are available upon factory request. Options include fabricated two-piece sheet steel or heavy duty two-piece cast aluminum full base cover. All base covers are finished to match pole.

Anchor Base/ Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" blend on one end. All anchor bolts are hot-dipped galvanized a minimum of 12" nominal on the threaded end. Anchor bolts are made of steel rod having a minimum yield strength of 55,000 psi and a yield strength of 75,000 psi to 95,000 psi.

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

Finish – Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

WARRANTY — 1-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

Anchor Base Poles

RSS

ROUND STRAIGHT STEEL

RSS Round Straight Steel Pole

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** RSS 20 4-5B DM19 DDB

RSS					
Series	**Nominal fixture mounting height**	**Nominal shaft base size/wall thickness** [1]	**Mounting** [2]	**Options**	**Finish** [11]
RSS	8'-30' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	3B 3" (.120") 4B 4" (.120") 4-5B 4 1/2" (.120") 5B 5" (.120") (See technical information table for complete ordering information.)	Tenon mounting PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) [2] T35 4" O.D. (3-1/2" NPS) [2] KAC/KAD/KSE/KSF/KVR/KVF Drill mounting [3] DM19 1 at 90° DM28 2 at 180° DM28PL 2 at 180° with one side plugged DM29 2 at 90° DM32 3 at 120° DM49 4 at 90° CSX/DSX/AERIS™/OMERO™/HLA/KAX Drill mounting [2] DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM32AS 2 at 120° DM39AS 3 at 90° DM49AS 4 at 90° AERIS™ Suspend drill mounting [3,4] DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° OMERO™ Suspend drill mounting [3,4] DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90°	Shipped installed L/AB Less anchor bolts (Include when anchor bolts are not needed) VD Vibration damper TP Tamper resistant handhole cover fasteners HAxy Horizontal arm bracket (1 fixture) [5,6] FDLxy Festoon outlet less electrical [5] CPL12/xy 1/2" coupling [5] CPL34/xy 3/4" coupling [5] CPL1/xy 1" coupling [5] NPL12/xy 1/2" threaded nipple [5] NPL34/xy 3/4" threaded nipple [5] NPL1/xy 1" threaded nipple [5] EHHxy Extra handhole [5,7] MAEX Match existing [8] USPOM United States point of manufacture [9] IC Interior coating [10] UL UL listed with label (Includes NEC compliant cover) NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) Shipped separately (replacement kit available) (blank) FBC Full base cover (plastic) (blank) TC Top cap (blank) HHC Handhole cover	Standard colors DDBXD Dark bronze DWHXD White DBLXD Black DMBXD Medium bronze DNAXD Natural aluminum GALV Galvanized finish Classic colors DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue Architectural colors (powder finish) [11] Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available.

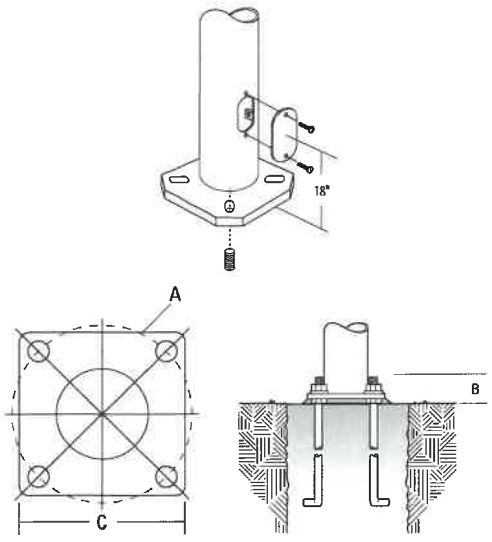
NOTES:
1. Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.1196" | "G" - 0.1793
2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
4. Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
5. Specify location and orientation when ordering option. For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-". Example: 5ft = 5 and 20ft 3in = 20-3 For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below. Example: 1/2" coupling at 5' 8 ", orientation C = CPL12/5-8C
6. Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise. If ordering two horizontal arm at the same height, specify with HAxyy. Example: HA20BD
7. Combination of tenon-top and drill mount includes extra handhole.
8. Must add original order number of existing pole(s).
9. Use when mill certifications are required.
10. 1Provides enhanced corrosion resistance.
11. Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

RSS Round Straight Steel Pole

TECHNICAL INFORMATION — EPA (ft^2) with 1.3 gust											
Catalog number	Nominal shaft length (ft)*	Pole shaft size (in x ft)	Wall thickness (in)	80 mph	Max weight	90 mph	Max weight	100 mph	Max weight	Bolt size (in. x in. x in.)	Approximate ship weight (lbs.)
RSS 8 4-5B	8	4.5 x 8.0	0.120	24.7	630	19.7	495	16.0	430	3/4 x 18 x 3	55
RSS 10 3B	10	3.0 x 10.0	0.120	10.0	250	7.7	190	6.0	175	3/4 x 18 x 3	55
RSS 10 4B	10	4.0 x 10.0	0.120	19.1	480	15	375	12.2	305	3/4 x 18 x 3	70
RSS 10 4-5B	10	4.5 x 10.0	0.120	24.5	615	19.5	490	15.8	395	3/4 x 18 x 3	75
RSS 12 3B	12	3.0 x 12.0	0.120	7.7	195	5.8	145	4.4	130	3/4 x 18 x 3	60
RSS 12 4B	12	4.0 x 12.0	0.120	15.0	390	11.8	300	9.5	240	3/4 x 18 x 3	80
RSS 12 4-5B	12	4.5 x 12.0	0.120	19.8	495	15.7	395	12.7	320	3/4 x 18 x 3	85
RSS 14 3B	14	3.0 x 14.0	0.120	6.0	175	4.4	130	3.3	90	3/4 x 18 x 3	70
RSS 14 4B	14	4.0 x 14.0	0.120	12.2	305	9.4	250	7.6	195	3/4 x 18 x 3	90
RSS 14 4-5B	14	4.5 x 14.0	0.120	16.2	405	12.8	320	10.3	260	3/4 x 18 x 3	95
RSS 15 4-5B	15	4.5 x 15.0	0.120	12.0	300	9.5	250	7.5	200	3/4 x 18 x 3	96
RSS 16 3B	16	3.0 x 16.0	0.120	4.6	125	3.2	100	2.3	60	3/4 x 18 x 3	80
RSS 16 4B	16	4.0 x 16.0	0.120	9.6	250	7.4	185	5.9	150	3/4 x 18 x 3	100
RSS 16 4-5B	16	4.5 x 16.0	0.120	13.1	330	10.2	265	8.2	205	3/4 x 18 x 3	105
RSS 18 3B	18	3.0 x 18.0	0.120	3.4	90	2.3	60	1.4	70	3/4 x 18 x 3	90
RSS 18 4B	18	4.0 x 18.0	0.120	7.6	190	5.7	180	4.5	130	3/4 x 18 x 3	110
RSS 18 4-5B	18	4.5 x 18.0	0.120	10.5	265	8.2	210	6.5	165	3/4 x 18 x 3	115
RSS 20 3B	20	3.0 x 20.0	0.120	2.4	100	1.4	75	--	--	3/4 x 18 x 3	100
RSS 20 4B	20	4.0 x 20.0	0.120	6.0	150	4.45	150	3.45	125	3/4 x 18 x 3	120
RSS 20 4-5B	20	4.5 x 20.0	0.120	8.5	215	6.6	165	5.2	130	3/4 x 18 x 3	130
RSS 20 5B	20	5.0 x 20.0	0.120	11.75	300	9.1	230	7.25	180	3/4 x 18 x 3	145
RSS 22 4-5B	22	4.5 x 22.0	0.120	6.0	150	4.5	125	3.75	100	3/4 x 18 x 3	134
RSS 25 4B	25	4.0 x 25.0	0.120	2.85	100	1.95	75	1.35	75	3/4 x 18 x 3	145
RSS 25 4-5B	25	4.5 x 25.0	0.120	4.8	130	3.6	90	2.7	90	3/4 x 18 x 3	145
RSS 25 5B	25	5.0 x 25.0	0.120	7.25	180	5.5	150	4.25	150	3/4 x 18 x 3	180
RSS 30 4-5B	30	4.5 x 30.0	0.120	2.3	80	1.5	75	1.0	60	3/4 x 18 x 3	185
RSS 30 5B	30	5.0 x 30.0	0.120	4.2	150	3	125	2.25	100	3/4 x 18 x 3	210

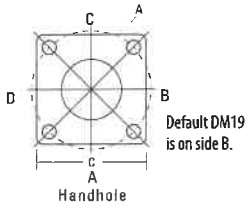
* EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

BASE DETAIL



POLE DATA					
Shaft base size	Bolt circle A	Bolt projection B	Base plate diameter	Template description	Anchor bolt description
3"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0
4"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0
4.5"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0
5"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0

HANDHOLE ORIENTATION



Default DM19 is on side B.

IMPORTANT INSTALLATION NOTES:

- **Do not** erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 770-922-9000 www.lithonia.com

City of Chesterfield Planning and Development Services Department
Parking Study Report

J.P.Morgan Chase, N.A.
16985 Chesterfield Airport Road
Chesterfield, MO 63005

St. Louis County, Missouri

Prepared by:

Core States Group
St. Louis, MO

October 10, 2019

PARKING STUDY REPORT
City of Chesterfield, Missouri

FOR

J.P.MORGAN CHASE, N.A. –
16985 CHESTERFIELD AIRPORT ROAD
ST. LOUIS COUNTY, MISSOURI

Prepared for:

J.P.Morgan Chase, N.A.
10 South Dearborn, 5th Floor
Chicago, IL 60603

Prepared by:

Core States Group
6500 Chippewa Street, Suite 200
St. Louis, MO 63109

October 10, 2019

Table of Contents

ENGINEER'S CERTIFICATION

THIS IS TO CERTIFY THAT THE ENCLOSED ENGINEERING CALCULATIONS WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

Chad Fairbanks, P.E. #2001018726
CoreStates, Inc.
6500 Chippewa Street, Suite 200
St. Louis, MO 63109

DATE: 11-20-19

Introduction

This parking study is provided as justification to the parking spaces at a rate above the required number of parking spaces for a J.P.Morgan Chase (Chase) bank at 16985 Chesterfield Airport Road, Chesterfield, MO 63005. The City of Chesterfield requires a submission of a parking study with sufficient documentation that demonstrates the need for increased parking demand above the 20% allotment over the minimum parking spaces required by Unified Development Code (UDC). This report provides documentation based on Chase operational standards and consultation of the Institute of Transportation Engineers (ITE) 5th edition of the Parking Generation Manual (Manual). The findings of this report verify and substantiate the need for the increased parking spaces for this site over and above the maximum number allotted by the UDC. Chase respectfully requests determination of acceptable parking increase to develop the property.

Project Description

The proposed project is a Chase bank to be located at the northeast corner of the intersection of Chesterfield Airport Road and Chesterfield Commons Drive, in Chesterfield, Missouri. The proposed development includes the construction of a 3,470 SF Chase bank, 20 parking spaces and all other related appurtenances. The project is Parcel 1 of an overall proposed development known as Caplaco Nineteen, Inc. Development.

Existing Conditions

The site is currently vacant with no existing curb cuts along either roadway.

City of Chesterfield Parking Requirements

The UDC states in Sec. 31-04-04 that for financial institutions, the required number of parking spaces is calculated as 3.3 per 1,000 SF of gross floor area (GFA). The proposed Chase bank is 3,470 SF and would require 12 parking spaces per the minimum calculation. The maximum parking allowed is 20% above the minimum requirement. Applying the 20% increase, the bank would be permitted a maximum of 14 parking spaces.

Per Sec. 31-04-04.I.2 of the UDC, a parking demand study for modification of the parking requirements is required wherein an application seeks to either reduce the minimum or exceed the maximum parking requirements. The elements of the parking demand study are listed below and discussed further throughout the remainder of the report.

Sec. 31-04-04.I.2(b) of the UDC

1. *The study shall be signed by a licensed professional engineer or certified planner.*
2. *A plan which graphically depicts where the parking spaces, loading spaces, stacking area, and parking structures are to be located, as well as the on-site circulation for automobile, pedestrian, and bicycle movement.*
3. *A report which demonstrates how any variations from this Section were calculated and upon what assumptions such calculations were based; and how everything shown on the plan complies with, or varies from, applicable standards and procedures of the City.*
4. *The plan shall show all entrances and exits for any structured parking and the relationship between parking lots or structures and the circulation.*

5. *The plan, supported by the report, shall show the use, number, location, and typical dimensions of parking for various vehicle types, including passenger vehicles, trucks, vehicles for mobility-impaired persons, motorcycles, buses, other transit vehicles and bicycles.*
6. *The plan, supported by the report, shall include phasing plans for the construction of parking facilities and any interim facilities planned.*
7. *Whenever the applicant requests 1) to reduce the number of required parking spaces, or 2) to exceed the maximum parking provided for in this Section, the required report shall document how the proposed parking was calculated and upon what assumptions such calculations were based.*
8. *Such other information as determined by the Department to be necessary to process the parking demand study.*

Report Signed by A Professional Engineer

This parking demand study has been signed and sealed on the table of contents page by Chad Fairbanks, PE of Core States Group (CSG).

Justification for Requested Variance

For purposes of analyzing the maximum number of parking spaces that would be required at this site, the Institute of Transportation Engineers (ITE) 5th edition of the Parking Generation Manual (Manual) was consulted. The ITE code for a drive-in bank is 912. Excerpts from this section of the Manual are provided in Exhibit 3. Per the ITE report, the 85th percentile rate is six (6) parking spaces per 1,000 SF of GFA. Based on the proposed 3,470 SF building, peak hour parking spaces required for the 85th percentile would be 21 (round up from 20.82).

Total Parking Needs

A summation of all parking needs is provided below.

Parking Needs Based on City of Chesterfield Requirements:	12 parking spaces (minimum) 14 parking spaces (maximum)
Parking Needs Based on ITE Manual:	21 parking spaces (85th percentile)

The site plan shown in Exhibit 1 reflects 20 parking spaces. Although the ITE Manual justifies 21, site constraints limit the proposed parking to 20.

Statement of Hardship

Without the additional parking spaces requested in this parking study, the potential customer base for the Chase bank may be reduced and inconvenienced causing loss of business and revenue.

Non-Materially Detrimental Or Injurious Statement

It is the opinion of CSG that the variance requested will not be materially detrimental or injurious to other properties or improvements in the surrounding area for the following reasons:

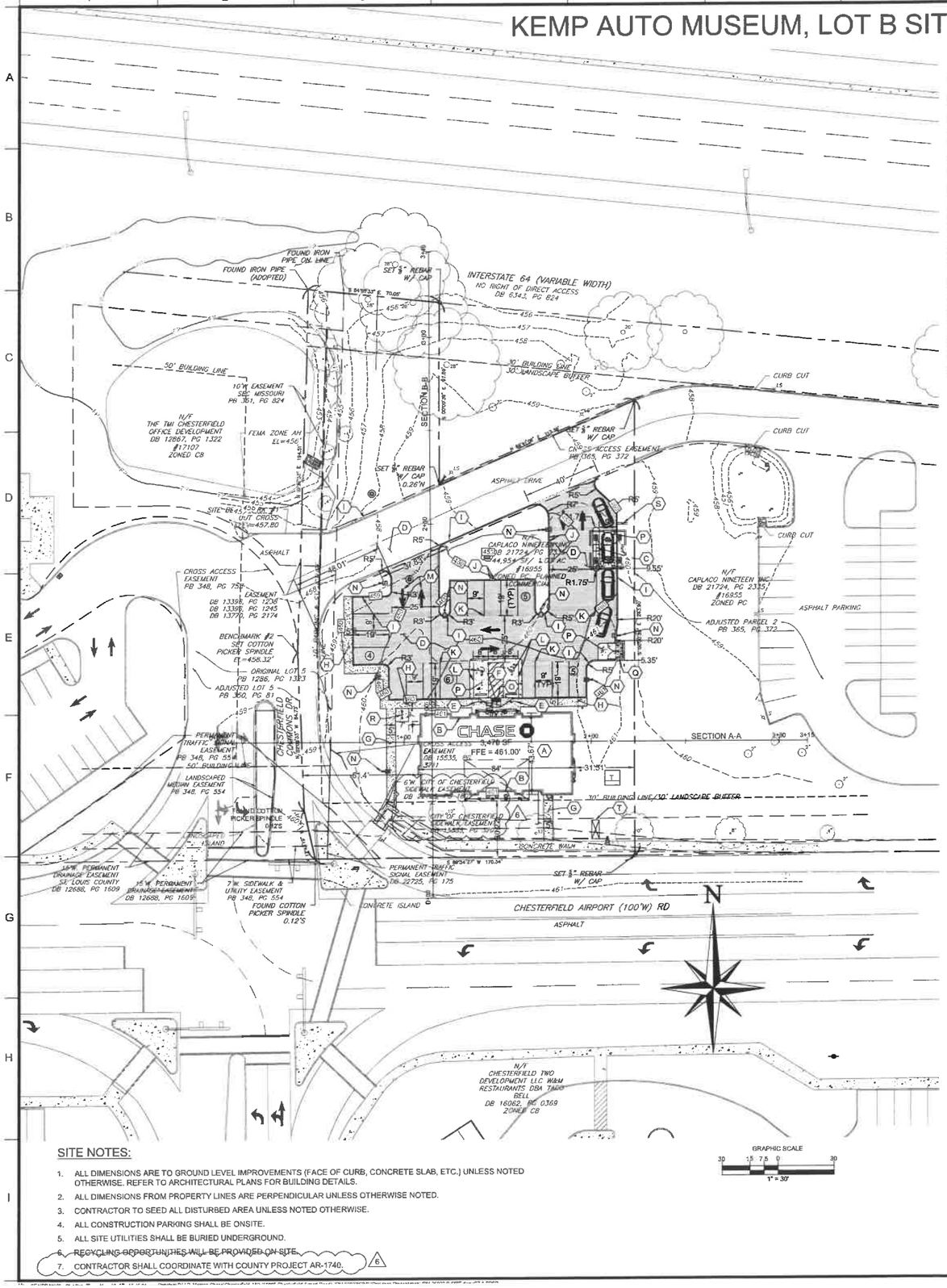
A.) The proposed Chase bank site allows for substantial green space areas interior to the site combined with the required buffers and landscape strips and additional density required for the

overlay district. The parking field will be well screened as defined in the Planned Commercial Development Ordinance.

B.) The adjoining property to the west is a Tesla® automobile dealership with associated parking spaces. The adjoining property is under the same ownership as the Chase site. The Chase site will not propose a determent to this property.

EXHIBIT 1 - Proposed Site Plan

KEMP AUTO MUSEUM, LOT B SITE DEVELOPMENT SECTION PLAN



ST. LOUIS COUNTY NOTES:

THE FOLLOWING NOTES ARE FOR ANY WORK WITHIN ST. LOUIS COUNTY RIGHT OF WAY:

- ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
- NO SLOPES WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL).
- STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.
- ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY AND MSD STANDARDS.
- ALL HYDRANTS, POWER POLES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY SHALL HAVE A MINIMUM TWO (2) FOOT SETBACK FROM FACE OF CURB OR EDGE OF PAVEMENT, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC.
- ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE EVIDENCING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE "ST. LOUIS COUNTY" AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF ANY PERMIT. CERTIFICATE SHALL PROVIDE FOR A 30 DAY POLICY CANCELLATION NOTICE TO ST. LOUIS COUNTY. UPON REQUEST, THE COUNTY WILL PROVIDE THE SPECIFIC AMOUNTS FOR BOTH PER PERSON AND PER OCCURRENCE LIMITS.
- PRIOR TO "SPECIAL USE PERMIT" ISSUANCE BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MAY BE REQUIRED TO BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.
- CONTINUOUS PEDESTRIAN ACCESS SHALL BE PROVIDED DURING THE CONSTRUCTION PROCESS. PRIOR TO THE START OF CONSTRUCTION, ADEQUATE PEDESTRIAN ACCESS AROUND THE SITE SHALL BE PROVIDED AND VERIFIED. NO EXISTING SIDEWALK SHALL BE REMOVED WITHOUT PROVIDING ADEQUATE PEDESTRIAN FACILITIES AND ROUTES DURING CONSTRUCTION ACTIVITIES.

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KEYED NOTES:

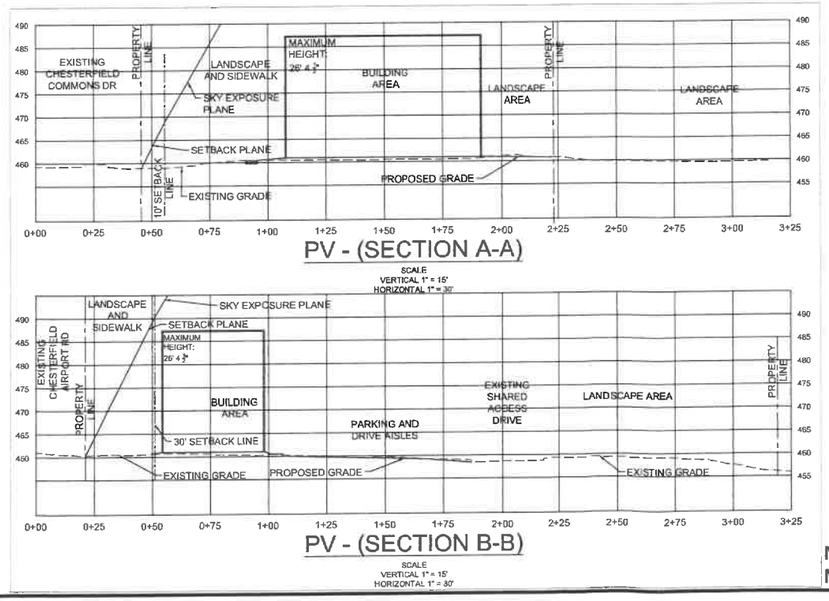
A. PROPOSED CHASE BANK. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ELEVATIONS.
B. PROPOSED BUILDING SIGNS TO BE PROVIDED AND INSTALLED BY OTHERS. ALL SIGNAGE PERMITTED AND APPROVED SEPARATELY.
C. PROPOSED DRIVE-THRU ATM. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND ELEVATIONS.
D. PROPOSED ASPHALT PAVEMENT. REFER TO SHEET C14 FOR DETAIL.
E. PROPOSED ADA PARKING SIGNAGE. REFER TO SHEET C14 FOR DETAIL.
F. PROPOSED ADA COMPLIANT RAMP IN SIDEWALK. REFER TO SHEET C14 FOR DETAIL.
G. PROPOSED CONCRETE SIDEWALK. REFER TO SHEET C14 FOR DETAILS.
H. PROPOSED CONCRETE SIDEWALK WITH TURNED DOWN EDGE. REFER TO SHEET C14 FOR DETAIL.
I. PROPOSED CONCRETE CURB. REFER TO SHEET C14 FOR DETAIL.
J. PROPOSED DEPRESSED CURB. REFER TO SHEET C14 FOR DETAIL.
K. PROPOSED 6" SOLID WHITE PAINTED STRIPE (TYPICAL). REFER TO SHEET C14 FOR DETAIL.
L. PROPOSED ACCESSIBLE PARKING STRIPING. REFER TO SHEET C14 FOR DETAIL.
M. PROPOSED DIRECTION TRAFFIC MARKING PAINTED (TYPICAL). REFER TO SHEET C14 FOR DETAIL.
N. PROPOSED SITE LIGHT FIXTURE.
O. PROPOSED DETECTABLE WARNING. REFER TO SHEET C14 FOR DETAIL.
P. PROPOSED CONCRETE PAVEMENT. REFER TO SHEET C14 FOR DETAIL.
Q. PROPOSED TRASH ENCLOSURE. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
R. PROPOSED 5 BIKE CAPACITY WAVE BIKE RACK. REFER TO SHEET C15 FOR DETAIL.
S. PROPOSED "STOP" (R1-1) AND "DO NOT ENTER" (R5-1) SIGN. REFER TO SHEET C15 FOR DETAIL
T. PROPOSED MONUMENT SIGN.

SITE LEGEND

- PROPERTY BOUNDARY LINE
- CENTERLINE OF EXISTING ROADWAY
- ADJACENT PROPERTY LINE
- EXIST. SIDEWALK/ACCESS EASEMENT
- FP FLOODPLAIN LIMITS
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING TREE
- EXISTING STORM STRUCTURES
- EXISTING SANITARY STRUCTURES
- EXISTING ELECTRICAL STRUCTURE
- EXISTING LIGHT POLE
- PROPOSED CURB
- PROPOSED BUILDING
- PROPOSED ASPHALT
- PROPOSED SIDEWALK
- PROPOSED CONCRETE
- PROPOSED WATER STRUCTURES
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED LIGHTING STRUCTURES
- PROPOSED SIGN
- 7 PROPOSED PARKING COUNT

ZONING DATA
PC - PLANNED COMMERCIAL DISTRICT
PROPOSED USE: FINANCIAL INSTITUTION, DRIVE-THRU

ITEM	EXISTING / REQUIRED	PROPOSED
PARCEL ID	17T140363	17T140363
FUTURE LAND USE	COMMERCIAL	COMMERCIAL
MAXIMUM BUILDING HEIGHT (FT)	40 FT	26.375 FT
FLOOR AREA RATIO	0.55 MAX.	0.08
BUILDING AREA (SF)	N/A	3,470 SF
FRONT SETBACK (FT)	30 FT	182.08 FT (NORTH)
SIDE SETBACK (FT)	10 FT	61.40 FT (WEST)
INTERIOR SIDE SETBACK (FT)	0 FT	31.51 FT (EAST)
REAR SETBACK (FT)	30 FT	30.22 FT (SOUTH)
MINIMUM PARKING SPACES	3.3 SPACES / 1,000 SF OF GFA 3,470 * 1/1000 * 3.3 = 12 SPACES MIN.	20 SPACES (INCLUDING ADA SPACES)
MAXIMUM PARKING SPACES	120% OF MIN. REQUIRED 1.2 * 12 = 15 MAX.	20 SPACES (INCLUDING ADA SPACES)
ADA PARKING SPACES	2 SPACES	2 SPACES
TOTAL PARCEL AREA	1.03 AC (44,869 SF)	1.03 AC (44,869 SF)
TOTAL LIMITS OF DISTURBANCE	N/A	0.497 AC (21,654 SF)
TOTAL OFF-SITE WORK	N/A	0.00 AC (0 SF)
PARCEL OPEN SPACE AREA (% OF LOT AREA)	0.361 AC (15,704 SF) 35% REQUIRED	0.534 AC (23,255 SF) 51.8%



PV - (SECTION A-A)

SCALE
VERTICAL 1" = 15'
HORIZONTAL 1" = 30'

PV - (SECTION B-B)

SCALE
VERTICAL 1" = 15'
HORIZONTAL 1" = 30'

SITE NOTES:

1. ALL DIMENSIONS ARE TO GROUND LEVEL IMPROVEMENTS (FACE OF CURB, CONCRETE SLAB, ETC.) UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL PLANS FOR BUILDING DETAILS.
2. ALL DIMENSIONS FROM PROPERTY LINES ARE PERPENDICULAR UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO SEED ALL DISTURBED AREA UNLESS NOTED OTHERWISE.
4. ALL CONSTRUCTION PARKING SHALL BE ONSITE.
5. ALL SITE UTILITIES SHALL BE BURIED UNDERGROUND.
6. RECYCLING OPPORTUNITIES WILL BE PROVIDED ON SITE.
7. CONTRACTOR SHALL COORDINATE WITH COUNTY PROJECT AR-1740.

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MSD BASE MAP #17T
MSD P# 19MSD-00273

CORE STATES GROUP
6500 Chippewa Street Suite 200
St. Louis, MO 63109
Phone (314) 843-4320
Pplan@core-eng.com

CLIENT

CHASE

811 Know what's below. Call before you dig.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR QUANTITY OF EXISTING UTILITIES AS SHOWN ON THESE PLANS MAY BE BASED ON RECORD INFORMATION AND/OR OBSERVABLE APPURTENANCES AND THAT THERE MAY BE OTHERS PRESENT. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES SHOWN AND, EXCEPT IN CASES OF EMERGENCY, NOTIFY THEM AT LEAST 48 HOURS BEFORE HE EXCAVATES TO DETERMINE EXACT LOCATIONS OF UTILITIES.

REVISIONS

REV	DATE	COMMENT	BY
1	6/07/19	SITE DEVELOPMENT SECTION PLAN	CDF
2	08/06/19	PER MSD COMMENT	CDF
3	09/11/19	PER CITY COMMENT	CDF
4	09/12/19	PER MSD COMMENT	CDF
6	11/12/19	PER COUNTY COMMENT	CDF

DOCUMENT
CIVIL CONSTRUCTION DOCUMENTS FOR CHASE BANK

SITE LOCATION
16985 CHESTERFIELD AIRPORT ROAD
CHESTERFIELD, MO 63055

ENGINEER SEAL

STATE OF MISSOURI
CHAD D. FAIRBANKS
NUMBER E-2001018725
REGISTERED PROFESSIONAL ENGINEER
11-12-19

SHEET TITLE
KEMP AUTO MUSEUM, LOT B SITE DEVELOPMENT SECTION PLAN

JOB #:	JPM.26022
DATE:	06-17-19
SCALE:	1"=30'
DRAWN BY:	ZPM
CHECKED BY:	CDF

SHEET NO.
C7.1

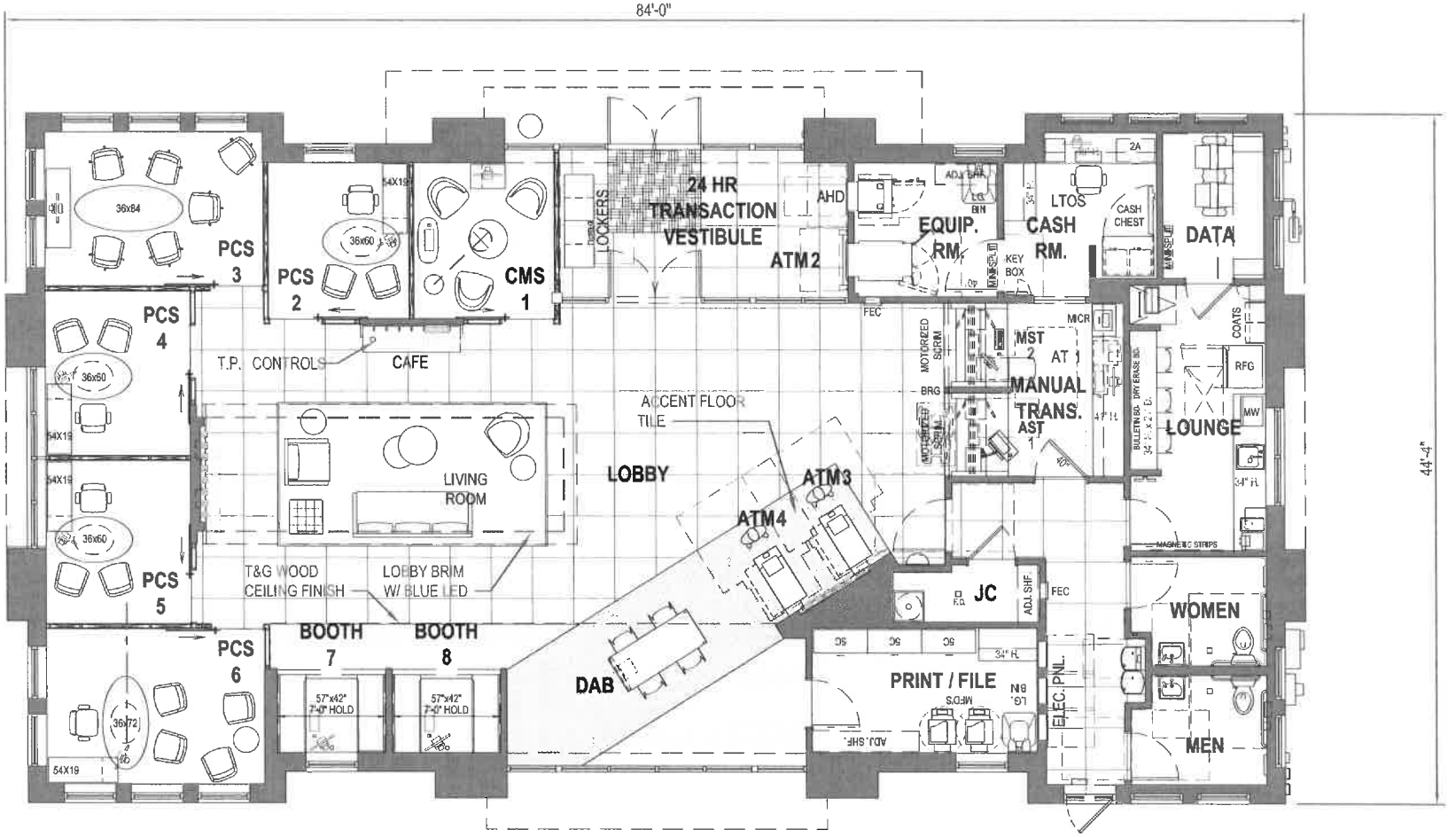
EXHIBIT 2 - Proposed Floor Plan

NOTE: TILE SHOWN FOR PATTERN ONLY. ACTUAL TILE SIZE AND SPACING TO BE LAID OUT AND VERIFIED BY THE ARCHITECT OF RECORD TO REFLECT THE DESIGN INTENT.
DO NOT REMOVE THIS TAG FROM FLOOR PLAN

DESIGN STANDARDS	HARDINESS ZONE	6A
18.3	WEATHER VESTIBULE REQUIRED *	

* HARDINESS ZONES <= 6A

CROSS ACCESS DRIVE



CHESTERFIELD AIRPORT RD

INFORMATION ONLY

FLOOR PLAN WILL BE UPDATED TO LATEST RETAIL DESIGN STANDARDS AND VALIDATED W/ BUDGET.
NOTE TO AOR: DO NOT PROCEED WITH CONSTRUCTION DOCUMENTS IF THIS STAMP IS PRESENT.

CHASE

Proposed Floor Plan

CHESTERFIELD

CHESTERFIELD, MO

DATE	DESIGNER	AREA	SCALE
07 FEB 19	DP	+/- 3,470 s.f.	3/32" = 1'-0"

0 2' 4' 8' 12'

DRC Page 9

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EXHIBIT 3 – ITE Parking Manual Excerpts

Land Use: 912 Drive-In Bank

Description

A drive-in bank provides banking facilities for motorists who conduct financial transactions from their vehicles. The drive-in lanes may or may not provide automatic teller machines (ATMs). All sites in database also provide walk-in services.

Time of Day Distribution for Parking Demand

The following table presents a time-of-day distribution of parking demand on a weekday at 25 study sites in a general urban/suburban setting.

Hour Beginning	Percent of Weekday Peak Parking Demand
12:00–4:00 a.m.	–
5:00 a.m.	–
6:00 a.m.	–
7:00 a.m.	7
8:00 a.m.	24
9:00 a.m.	62
10:00 a.m.	82
11:00 a.m.	90
12:00 p.m.	85
1:00 p.m.	88
2:00 p.m.	92
3:00 p.m.	100
4:00 p.m.	92
5:00 p.m.	72
6:00 p.m.	36
7:00 p.m.	9
8:00 p.m.	–
9:00 p.m.	–
10:00 p.m.	–
11:00 p.m.	–

Additional Data

Parking demand does not include vehicles queued at drive-in lanes.

The average parking supply ratio for the 11 study sites in a general urban/suburban setting with parking supply information is 7.2 spaces per 1,000 square feet GFA.

The sites were surveyed in the 2000s and the 2010s in New Jersey, New York, Tennessee, Texas, and Washington.

Source Numbers

411, 445, 503, 527, 530, 567

Drive-in Bank
(912)

Peak Period Parking Demand vs: 1000 Sq. Ft. GFA
On a: Weekday (Monday - Friday)
Setting/Location: General Urban/Suburban
Peak Period of Parking Demand: 11:00 a.m. - 4:00 p.m.
Number of Studies: 39
Avg. 1000 Sq. Ft. GFA: 5.5

Peak Period Parking Demand per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
3.72	1.50 - 7.91	3.10 / 6.00	3.27 - 4.17	1.42 (38%)

Data Plot and Equation