



II. A.

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Architectural Review Board Staff Report

Project Type: Site Development Plan

Meeting Date: February 9, 2012

From: Justin Wyse, AICP ^{JW}
Senior Planner

Location: N. Outer 40 Road, east of Boone's Crossing

Applicant: T-O Ventures, LLC

Description: **Chesterfield Outlets:** A Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architects Statement of Design for a 48.625 acre tract of land zoned "PC" Planned Commercial District located on the north side of N. Outer 40 Road, east of Boone's Crossing.

PROPOSAL SUMMARY

The request is for a 472,282 square foot retail outlet shopping center located between Boone's Crossing and the existing ice rink on N. Outer 40 Road. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2682. The exterior building materials will be comprised of painted textured concrete tilt wall, thin-brick veneer and cultured stone. The roof is proposed as a primarily flat membrane roof. Fixed storefront canopies constructed of standing seam metal will be utilized.

HISTORY OF SUBJECT SITE

On November 21, 2011, the City of Chesterfield approved Ordinance 2682, which zoned the subject site from a "NU" Non-Urban District to a "PC" Planned Commercial District. Ordinance 2682 authorized the change of zoning to allow for development of the site at a density not to exceed 500,000 square feet. Ordinance 2682 also restricts individual tenants within the development to no more than 75,000 square feet.



STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

Addressed As Written Addressed with Modification Not Applicable

The subject site is bordered by the levee (and trail) to the north and N. Outer 40 to the south. While vehicular access to the site is provided from N. Outer 40 Road, the site has direct visibility from I-64. The parcel to the east of the proposed Chesterfield Outlets is developed with an ice rink and associated uses contained in one building. The parcel to the west is an office building and bank located in one building. Chesterfield Outlets is proposed as a freestanding outdoor complex of buildings.

B. Circulation System and Access

Addressed As Written Addressed with Modification Not Applicable

The proposal will require N. Outer 40 Road to be widened along the frontage of the site. The levee trail is located immediately along the northern portion of the site. Access between the development and trail system will be facilitated by use of several existing drives over the levee. Additionally, an existing access road on the western portion of the site is proposed to be maintained to further facilitate this connection and bollards will be installed to ensure vehicular access is not able to use this drive. The buildings are internally oriented with open pedestrian streets and courtyards.

C. Topography

Addressed As Written Addressed with Modification Not Applicable

The existing grade of the property is flat. Minimal changes to the existing topography are planned.

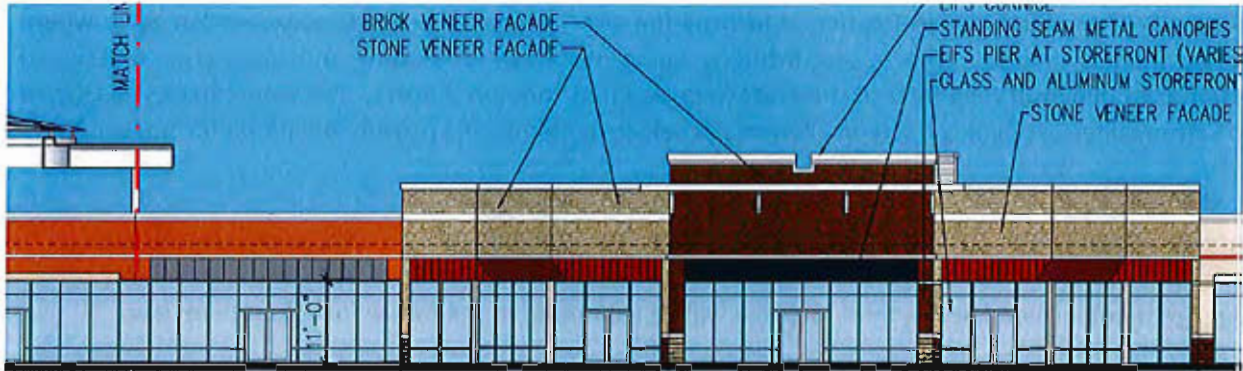
D. Retaining Walls

Addressed As Written

Addressed with Modification

Not Applicable

No retaining walls are proposed on the site.



General Requirements for Building Design:

A. Scale

Addressed As Written

Addressed with Modification

Not Applicable

The Statement of Design indicates the proposed scale of the building is consistent with other, similar outlet center developments. The design includes a base building height of 20 feet with accents of 24 and 28 feet to accent and break up long planes. The building also includes feature elements at the corners of the buildings of 30 and 40 feet.

B. Design

Addressed As Written

Addressed with Modification

Not Applicable

The development seeks to provide a shopping street. The center of the development is generally open with some areas being covered with a pavilion structure made of steel tubes. The pavilion will have an aluminum fascia façade, wood ceiling, and glass and aluminum skylights. The development includes anchor tenants on the ends (east/west) with the center of the development acting as an open plaza. Alternating landscaped courtyards and covered pavilions are included to enhance the pedestrian experience.

C. Materials and Color

Addressed As Written

Addressed with Modification

Not Applicable

Neutral tones with primarily white trim make up the base building. Individual tenant themes will be included to provide tenant identification beyond signage with accents to help tie the architecture together. Painted tilt-up concrete with EIFS trim characterizes three sides of the buildings (south, east, and west). The northern elevation, which faces the levee trail, is primarily painted / textured concrete

with similar banding and vertical/horizontal offsets to the southern façade. No planting is included along the northern façade due to levee district restrictions.

D. Landscape Design and Screening

Addressed As Written Addressed with Modification Not Applicable

The proposal utilizes a variety of shallow root landscaping to comply with requirements of the Chesterfield Monarch Levee District. Much of the site includes a protective excavation zone where penetration is limited. The design includes numerous flowers, shrubs, and decorative grasses to attempt to minimize the effect of the protective exaction zone on the site. The landscaping is designed to soften edges of buildings, screen elements at selective points, and provide definition for the center.

E. Signage

Addressed As Written Addressed with Modification Not Applicable

Signage is not included at this time. Signage will be submitted in the future for separate review.

F. Lighting

Addressed As Written Addressed with Modification Not Applicable

As proposed, lighting will be an integral part of the development. In addition to the utilitarian lighting for the site, numerous fixtures are proposed to enhance the development and add a sense of “theatrical drama.” The packet submitted for your review includes diagrams that clarify how these lights will be utilized and give clarity to the proposal. The diagrams can be found in the ARB submittal under the *Lighting Cut-Sheet & Plans* section on pages LT-02 through LT-05.

Use Type: Commercial and Industrial Architecture

Access: Due to the unique design of the center as an open shopping street, loading and business areas of the southern buildings is located next to the parking area. The design includes varying screen walls to not only screen these elements, but also provide relief in the long building mass. Trash areas for the southern building will also be located behind these screens. Loading and trash areas for the northern buildings will occur on the northern side of the site.

Exterior Elements: Addressed above in the *Requirements for Building Design*.

Landscaping and Screening: As mentioned previously, the protective excavation zone associated with the levee restrictions landscaping on the site. Where possible, landscaping has been included to soften the building.

Scale: Addressed above in the *Requirements for Building Design*.

Site Design: The proposed design attempts to take all public areas into account with respect to design. See *Section C. Materials and Colors* and *Section D. Landscape Design and Screening* for more information.

DEPARTMENT INPUT

Staff has requested the applicant provide a video fly-through of the model for the site. While not an official part of the package to be ultimately approved as part of the site development plan submittal, Staff determined this video would be beneficial to the Board in their review. Staff will present this video during the Board’s meeting.

Staff has reviewed the Site Development Plan, Landscape Plan, Lighting Plan and Architectural Elevations. An initial comment letter has been sent to the applicant regarding Staff issues. Action is requested on the Site Development Plan for Chesterfield Outlets.

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Site Development Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for Chesterfield Outlets, as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for Chesterfield Outlets, to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal

CHESTERFIELD OUTLETS

CHESTERFIELD, MISSOURI



ARCHITECTURAL REVIEW BOARD SUBMISSION

FEBRUARY 9, 2012



**ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist**

Date of First Comment Letter Received from the City of Chesterfield N/A
Project Title: Chesterfield Outlets **Location:** North Outer 40 at Boone's Crossing
Developer: T.O. Ventures, LLC **Architect:** Design Collective **Engineer:** Stock & Associates

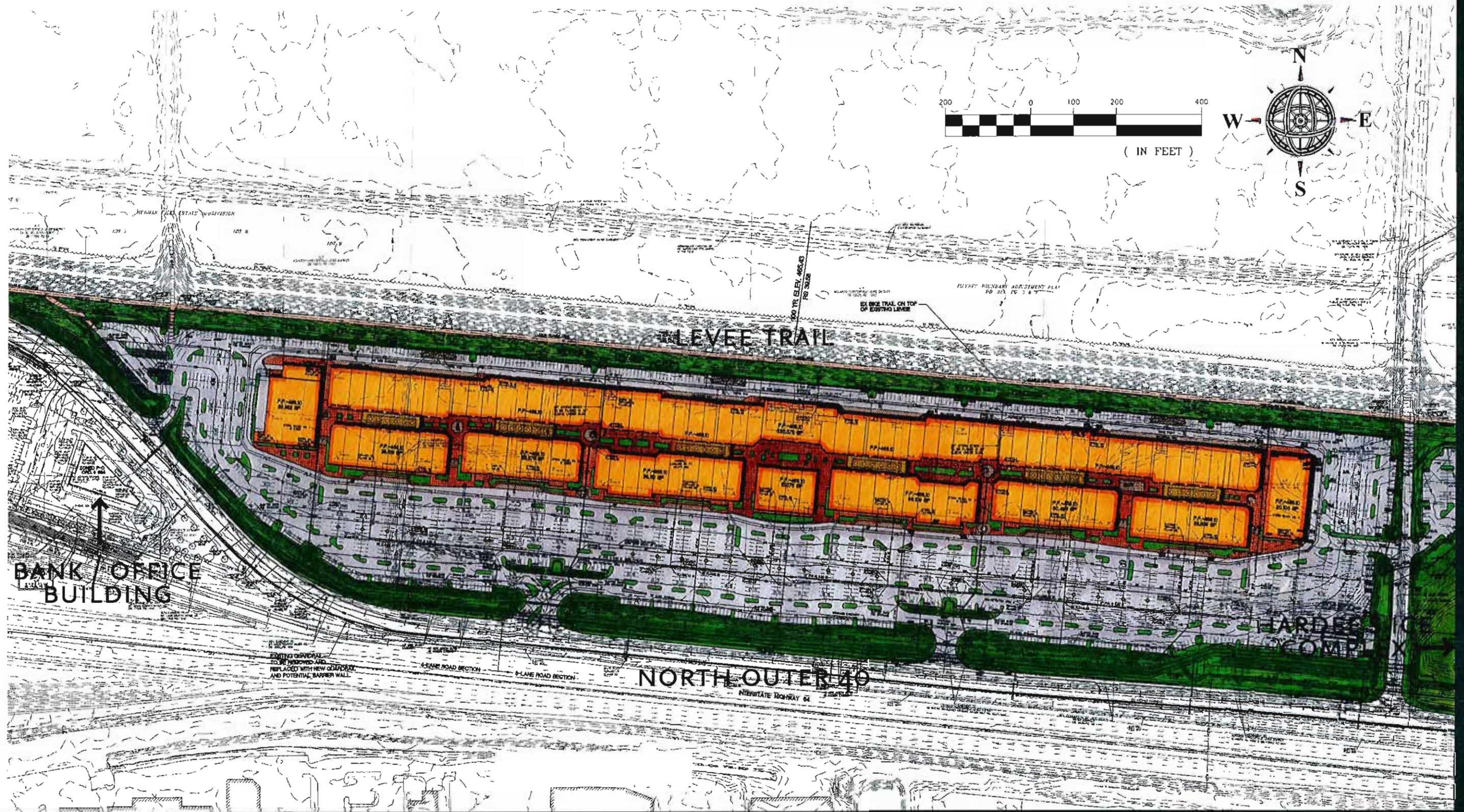
PROJECT STATISTICS:

Size of site (in acres): 48.625 ac **Total Square Footage:** 472,282 gsf **Building Height:** 40' +/- max
Proposed Usage: Upscale Retail Outlet Center
Exterior Building Materials: Painted Textured Concrete Tiltwall, Thin-Brick Veneered Tiltwall, and Cultured Stone
Roof Material & Design: Primarily flat membrane roofing. Fixed storefront canopies to be standing seam metal.
Screening Material & Design: Loading area screens will be a combination of vegetative trellises and "Trex" panels
Description of art or architecturally significant features (if any): The project consists of a series of inter-related buildings and pedestrian plazas. Feature pavilions, towers, and raised trellis elements highlight key areas of the project.

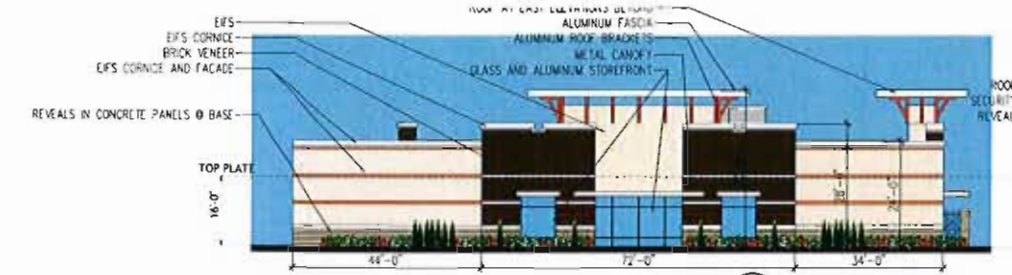
ADDITIONAL PROJECT INFORMATION:

Checklist: Items to be provided in an 11" x 17" format

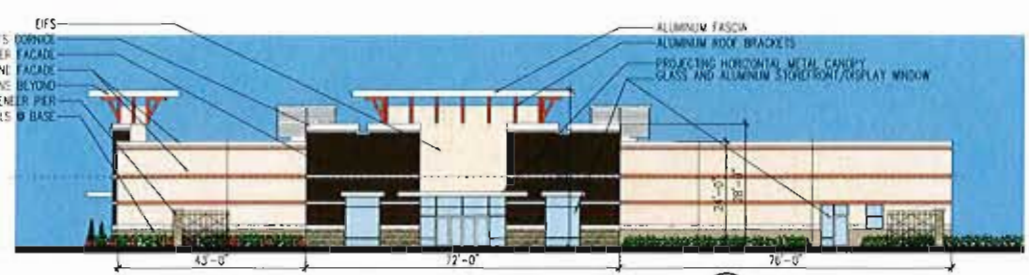
- Color Site Plan with contours, site location map, and identification of adjacent uses.
- Color elevations for all building faces.
- Color rendering or model reflecting proposed topography.
- Photos reflecting all views of adjacent uses and sites.
- Details of screening, retaining walls, etc.
- Section plans highlighting any building off-sets, etc. (as applicable)
- Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
- Landscape Plan.
- Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
- Large exterior material samples. (to be brought to the ARB meeting)
- Any other exhibits which would aid understanding of the design proposal. (as applicable)
- Pdf files of each document required.



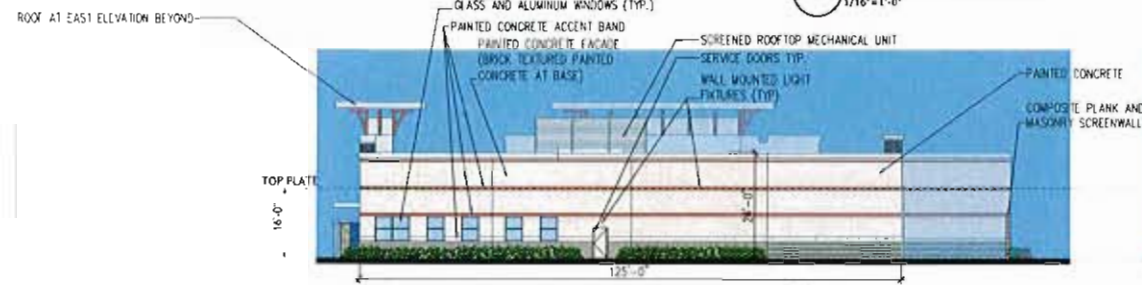
ALL WORK © DESIGN COLLECTIVE, INC.



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3 Bldg. A - East
1/16"=1'-0"



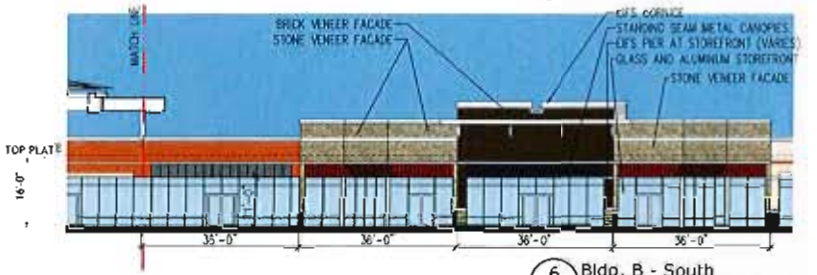
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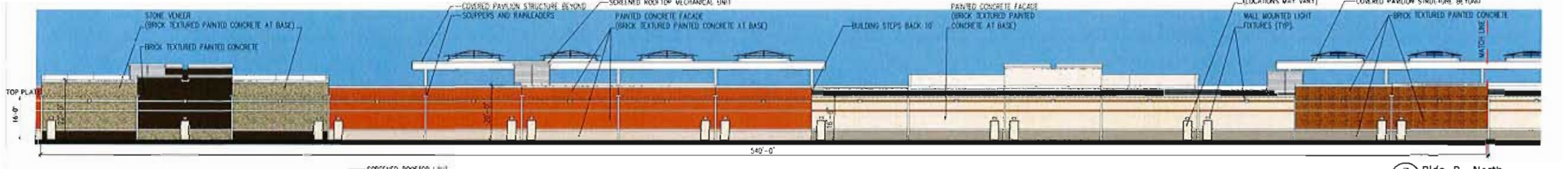
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5 Bldg. B - South
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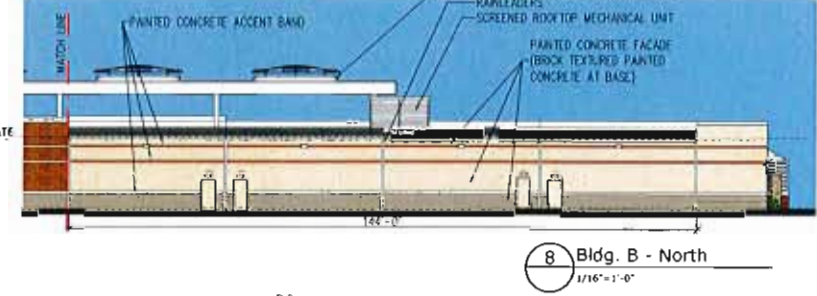
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7 Bldg. B - North
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9 Bldg. B - West
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8 Bldg. B - North
1/16"=1'-0"



DATE	BY	REVISION
1-26-2017	ARB	SUBMISSION

T-O VENTURES LLC
 200 EAST LONG LAKE RD.
 SUITE 300
 BLOOMFIELD HILLS, MI
 48304-2324
CHESTERFIELD OUTLETS
 888 N OUTER 40
 CHESTERFIELD, MO 63005

DCI Project No. 647-11
 Owner Project No.
 Drawn by _____ Checked by _____



BUILDING A - B ELEVATIONS

ISSUED FOR	DATE
ARB SUBMISSION	1-26-2012

CONSULTANT

T-O VENTURES LLC

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PROJECT NAME
CHESTERFIELD OUTLETS

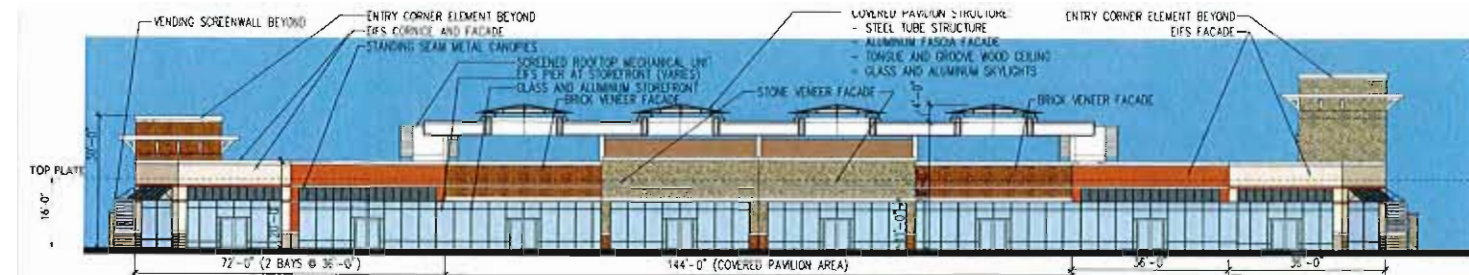
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 ### N OUTER 40
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 Owner Project No.
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PROJECT NAME
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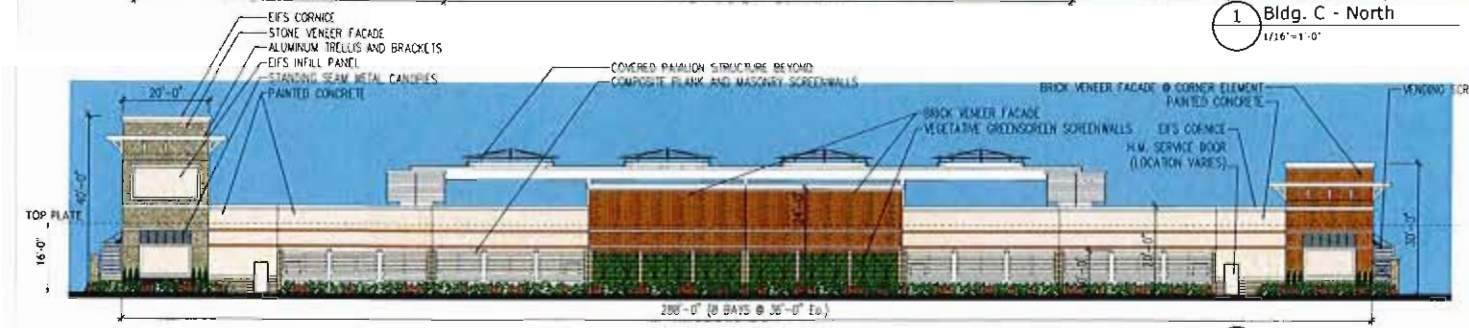
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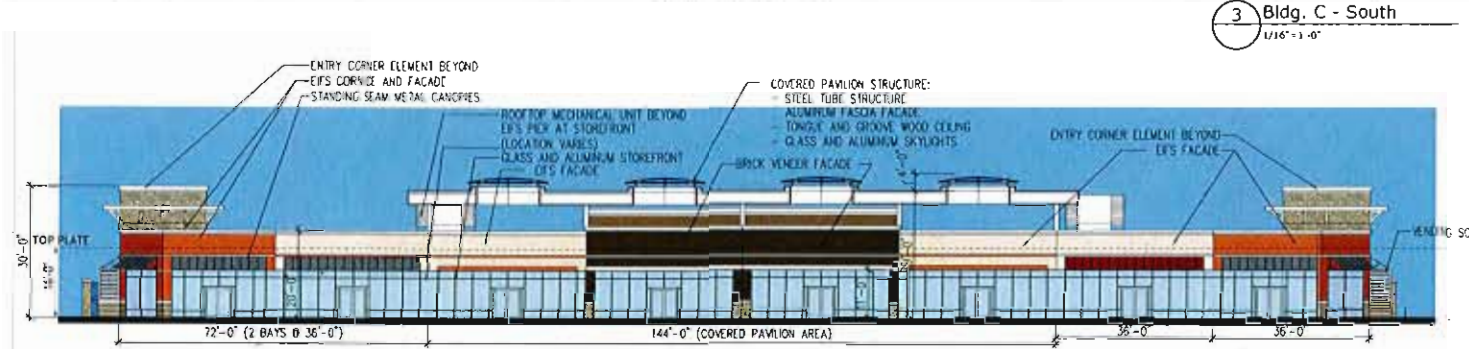
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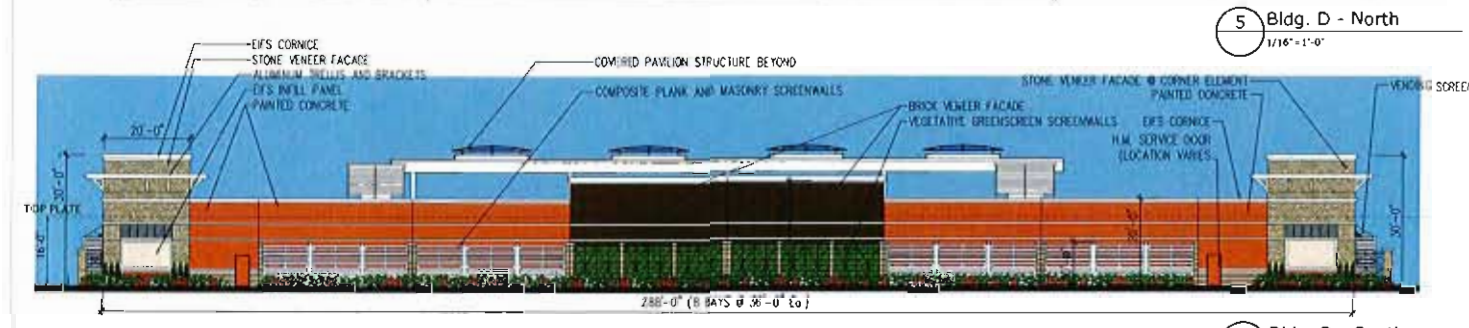
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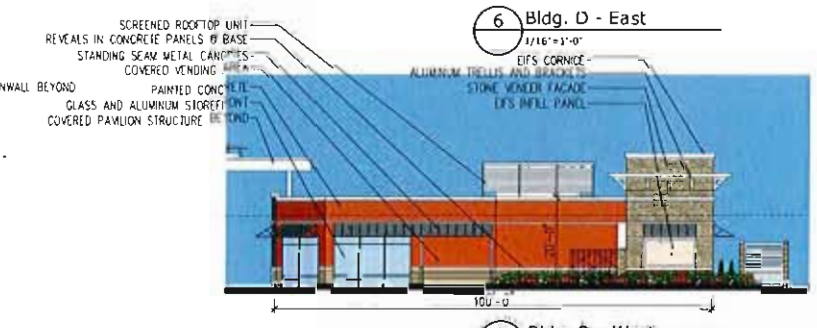
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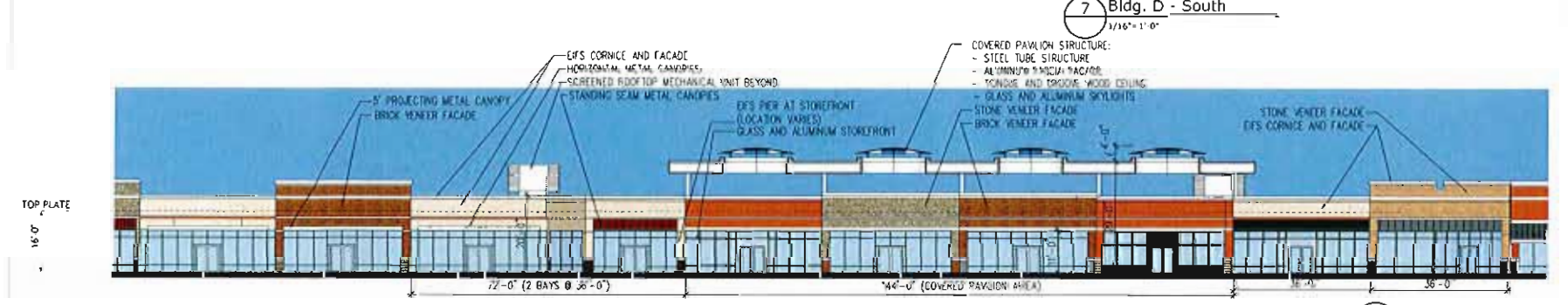
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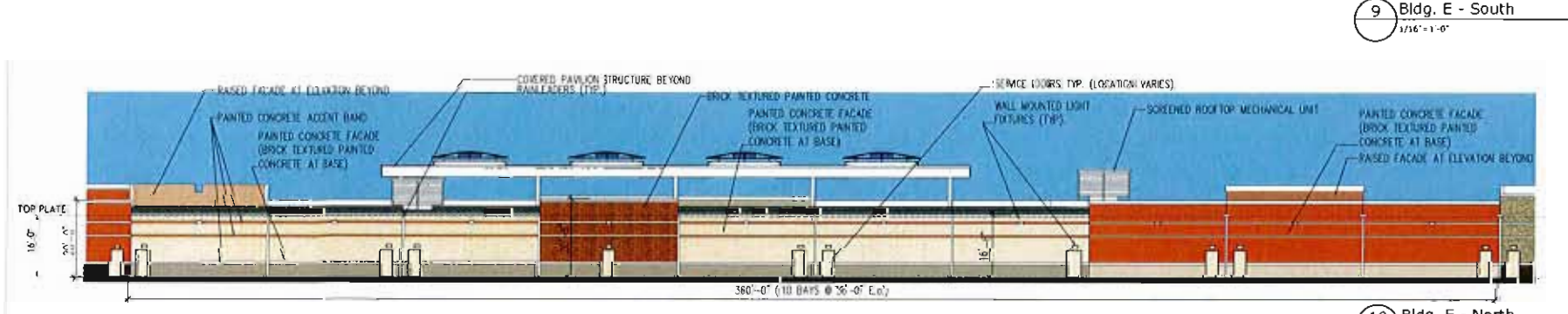
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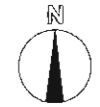
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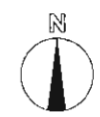
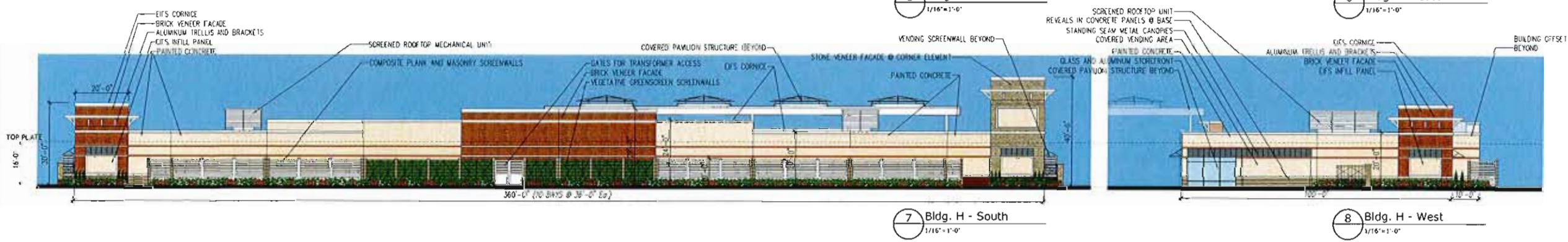
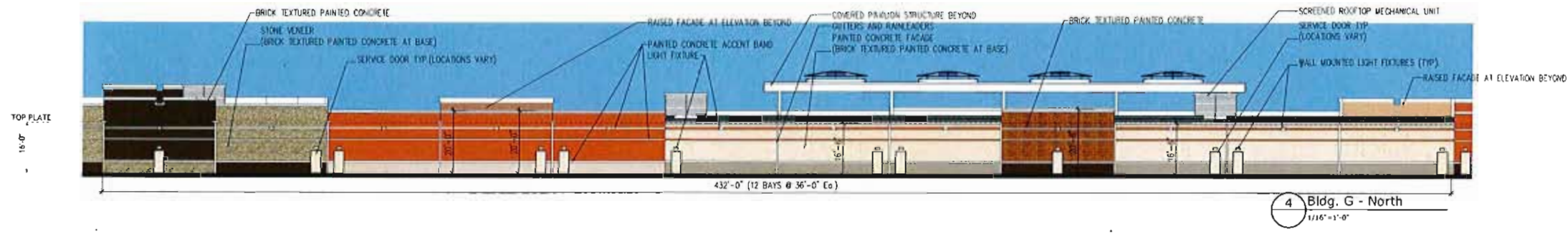
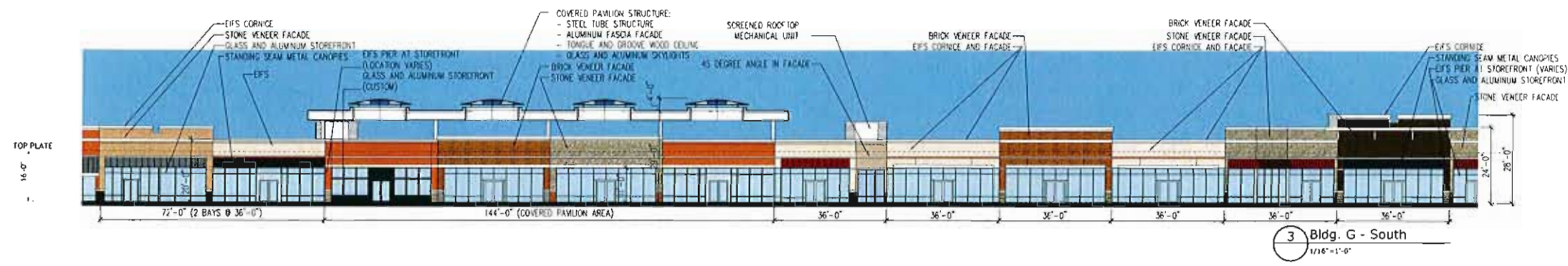
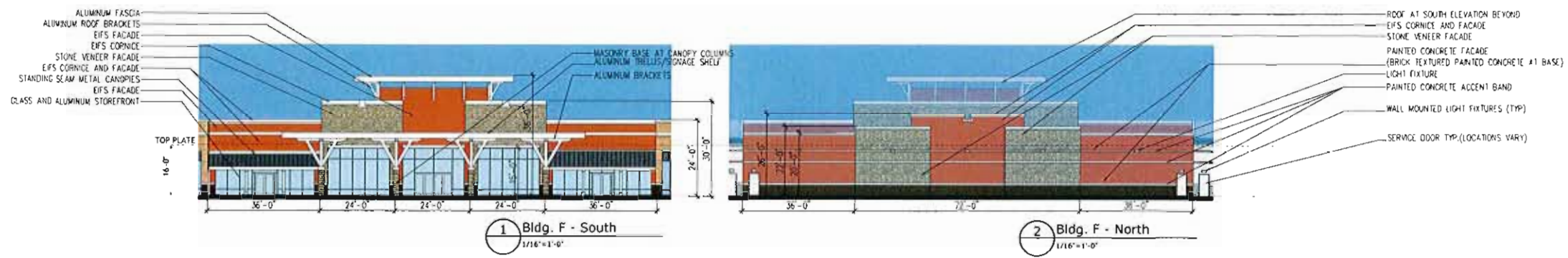


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10 Bldg. E - North
1/16" = 1'-0"





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ISSUED FOR	DATE
ARB SUBMISSION	4-26-2019

CONSULTANT

OWNER/DEVELOPER
T-O VENTURES LLC

200 EAST LONG LAKE RD.
SUITE 300
BLOOMFIELD HILLS, MI
48304-2324

PROJECT NAME
CHESTERFIELD OUTLETS

PROJECT ADDRESS
N OUTER 40
CHESTERFIELD, MO 63005

PROJECT MANAGEMENT
DCI Project No. 647-11
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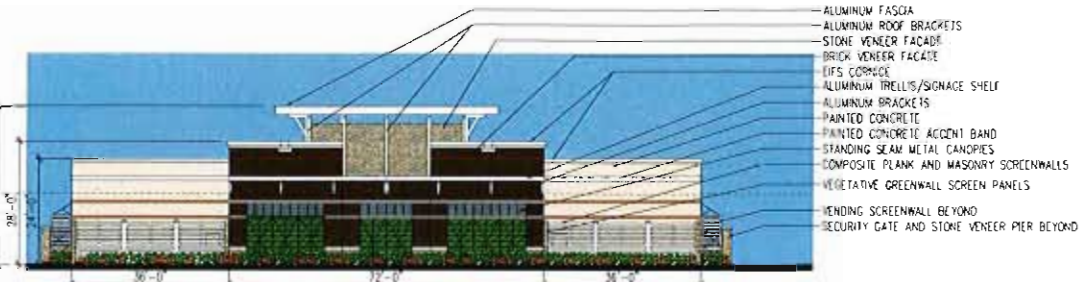
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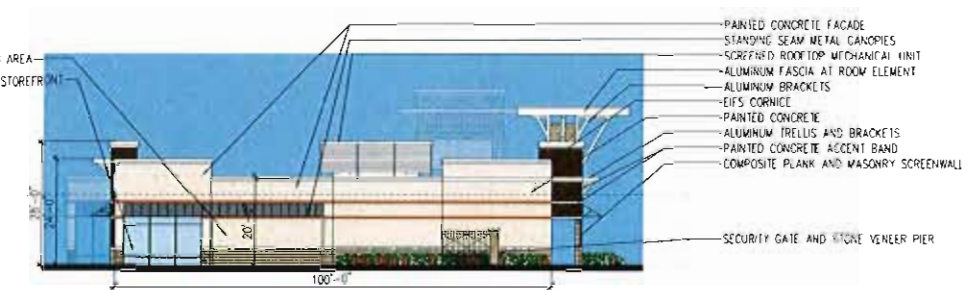
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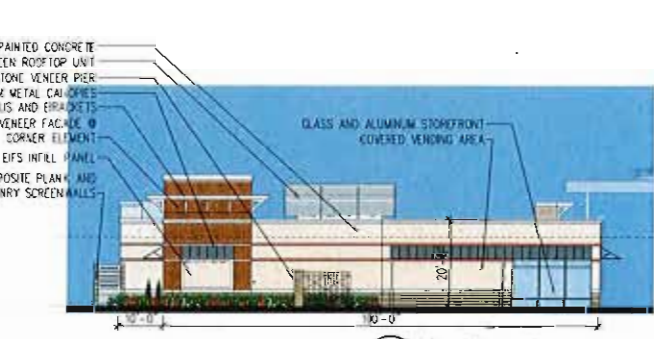
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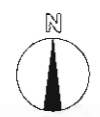
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8 Bldg. K - West
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CONSULTANT:		

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 48304-2324
 PROJECT NAME
**CHESTERFIELD
 OUTLETS**
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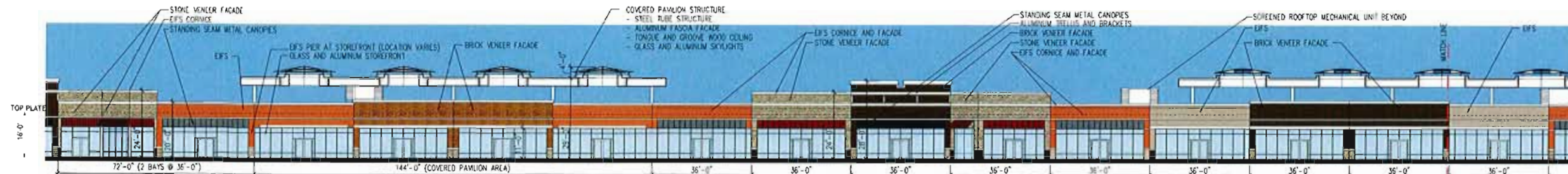
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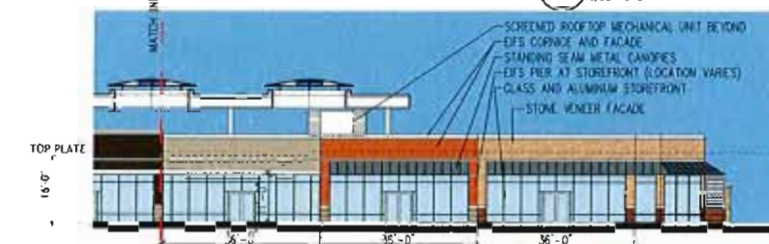
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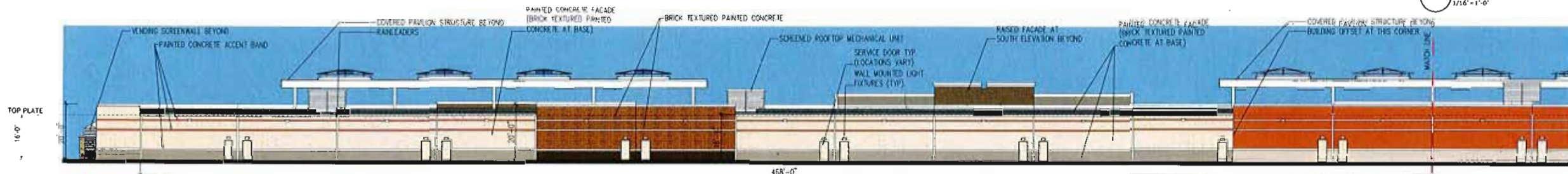
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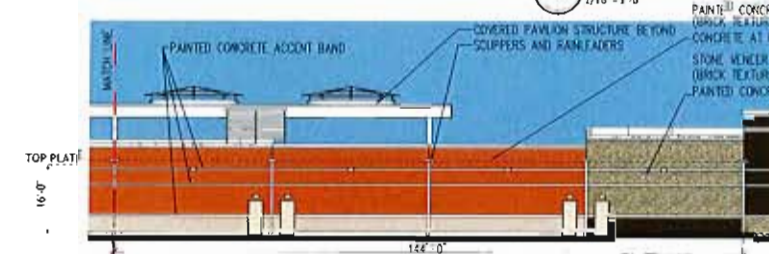
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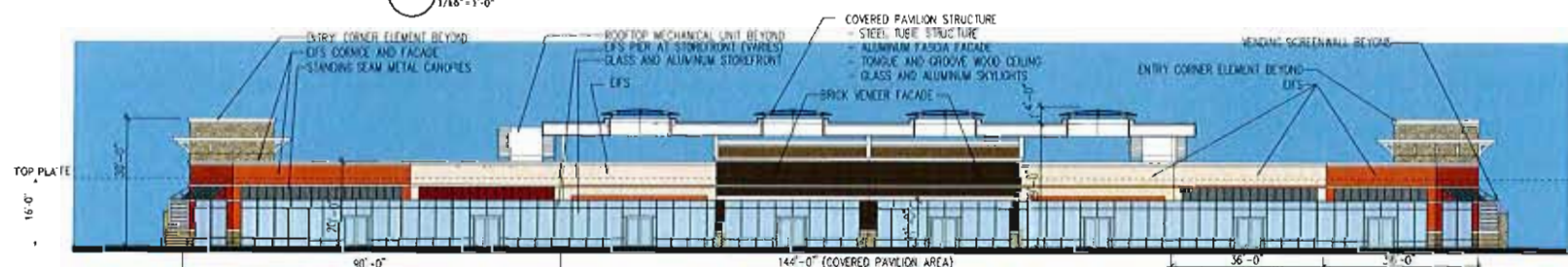
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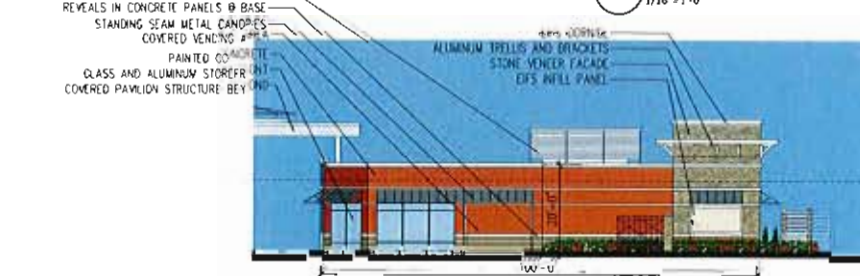
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8 Bldg. M - South
1/16" = 1'-0"



9 Bldg. M - West
1/16" = 1'-0"



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ISSUED FOR	DATE
ARB SUBMISSION	1-26-2017

CONSULTANT

T-O VENTURES LLC

200 EAST LONG LAKE RD.
SUITE 300
BLOOMFIELD HILLS, MI
48304-2324

CHESTERFIELD OUTLETS

PROJECT ADDRESS
#N N OUTER 40
CHESTERFIELD, MO 63005

PROJECT MANAGEMENT
DCI Project No. 647-11
Owner Project No.
Drawn by Checked by



PROJECT NAME
BUILDING L - M ELEVATIONS

SCALE
1/16" = 1'-0"
SHEET NUMBER
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DATE	DESCRIPTION
1/26/2017	ARJ SUBMISSION

DATE PREPARED
T-O VENTURES LLC
 200 EAST LONG LAKE RD.
 SUITE 300
 BLOOMFIELD HILLS, MI
 48304-2324
 PROJECT NAME
CHESTERFIELD OUTLETS
 PROJECT ADDRESS
 ### N OUTER 40
 CHESTERFIELD, MO 63005

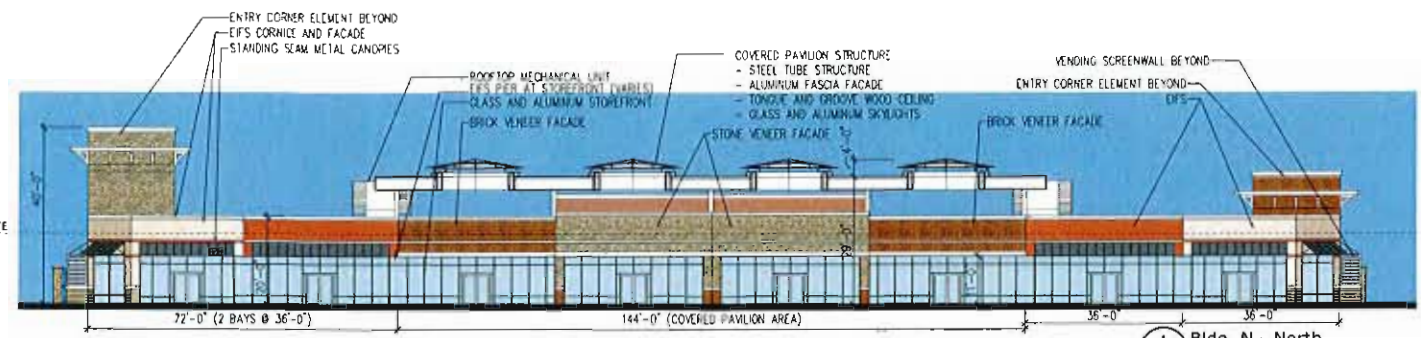
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 Owner Project No.
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SHEET TITLE
**BUILDING N - P
 ELEVATIONS**

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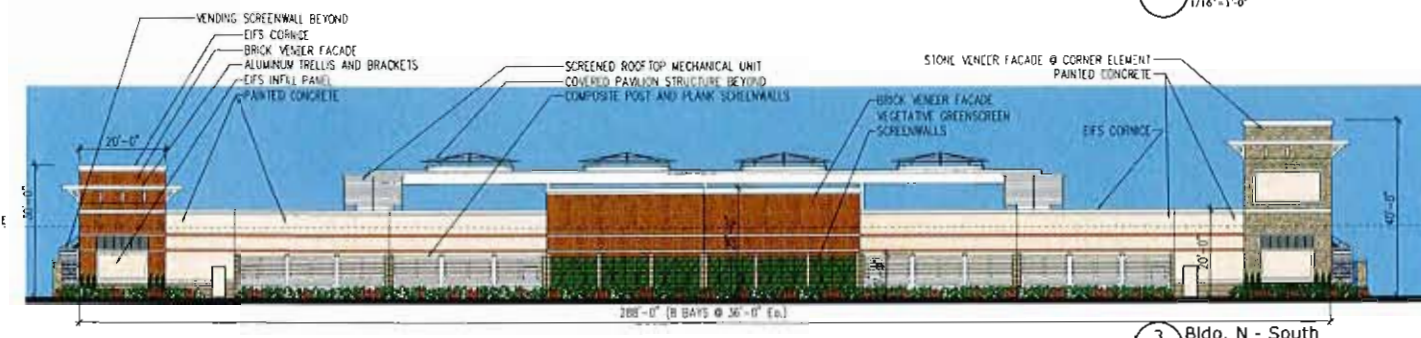
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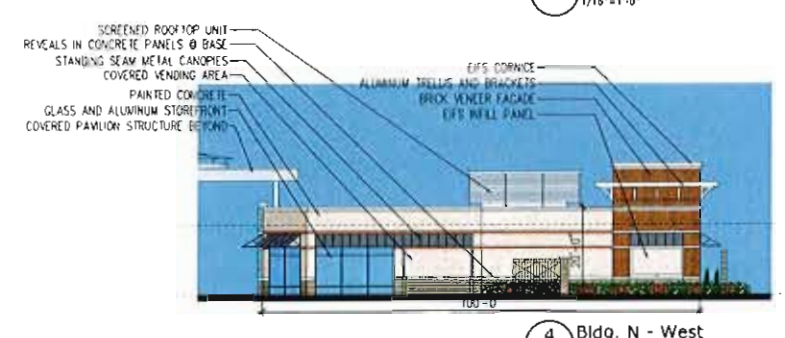
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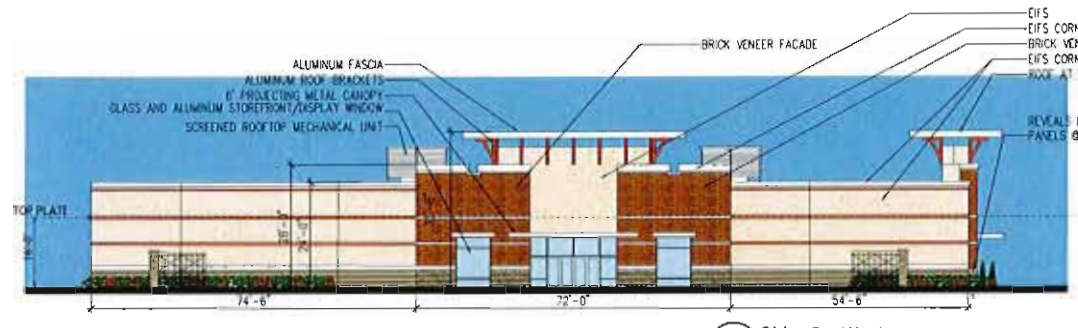
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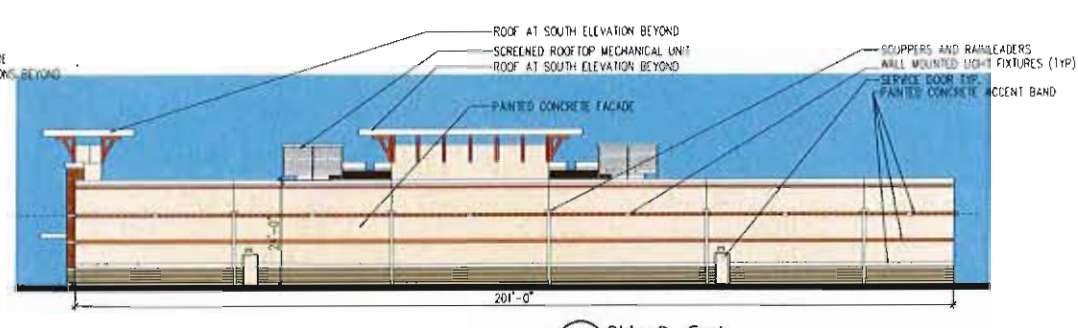
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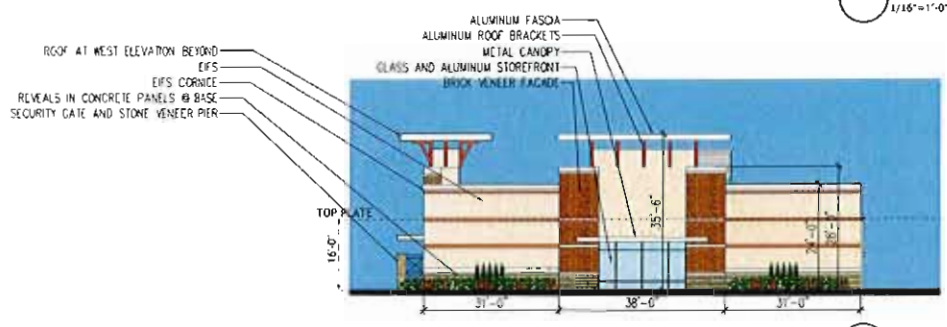
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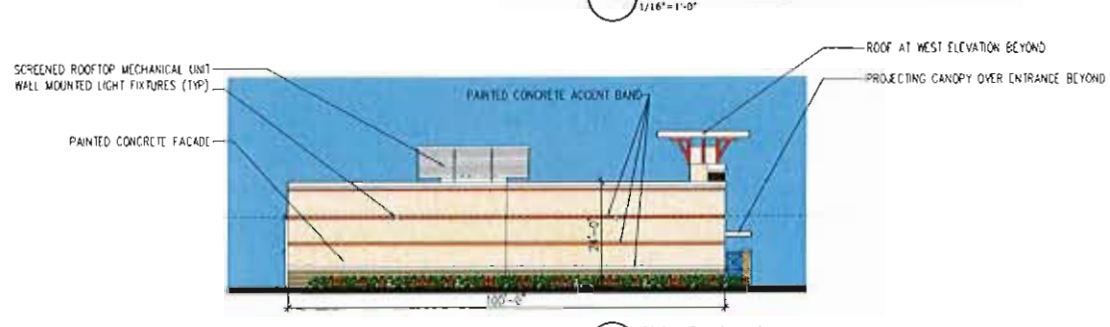
5 Bldg. P - West
 1/16"=1'-0"



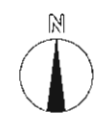
6 Bldg. P - East
 1/16"=1'-0"



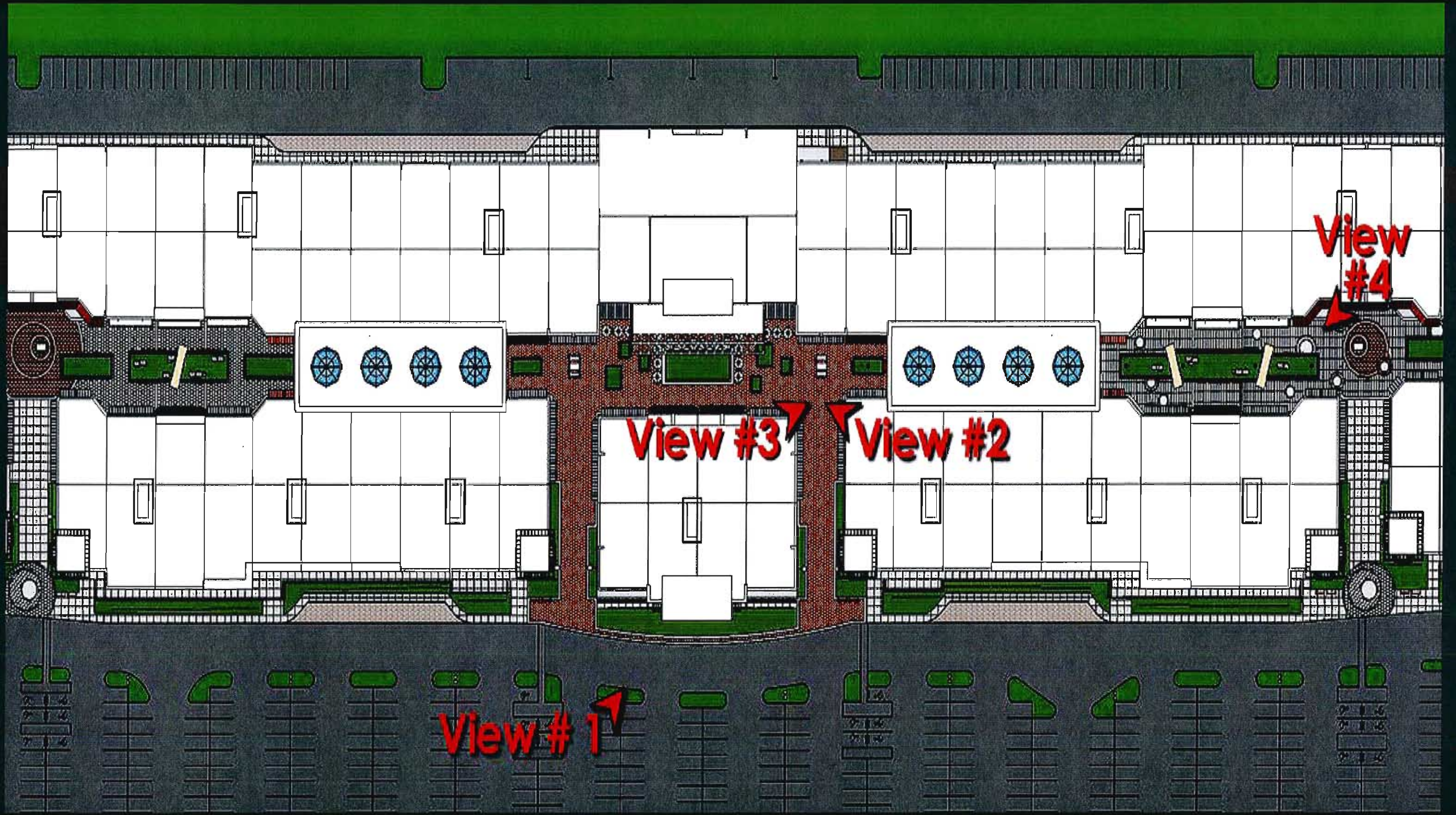
7 Bldg. P - South
 1/16"=1'-0"



8 Bldg. P - North
 1/16"=1'-0"







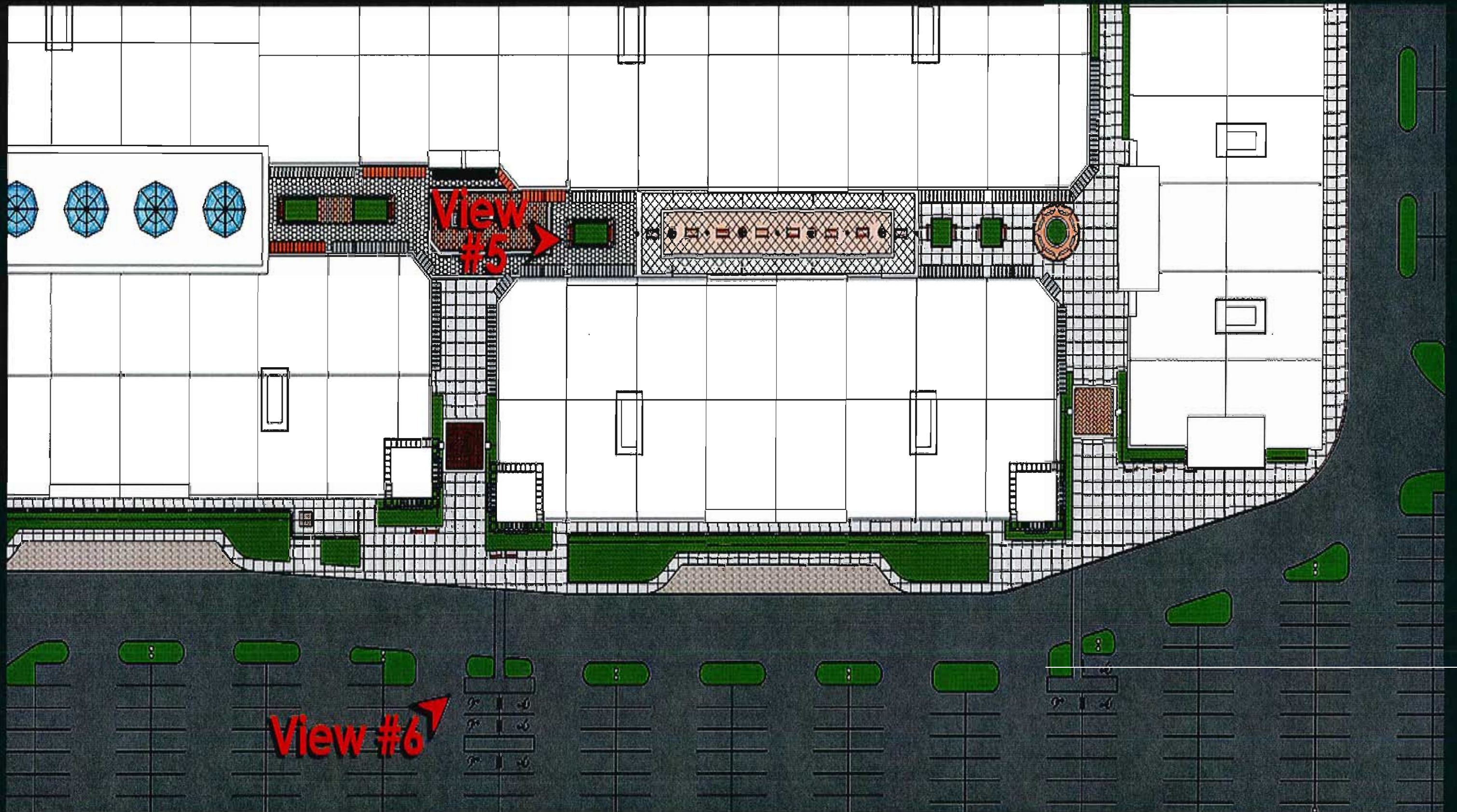


ALL WORK © DESIGN COLLECTIVE, INC.



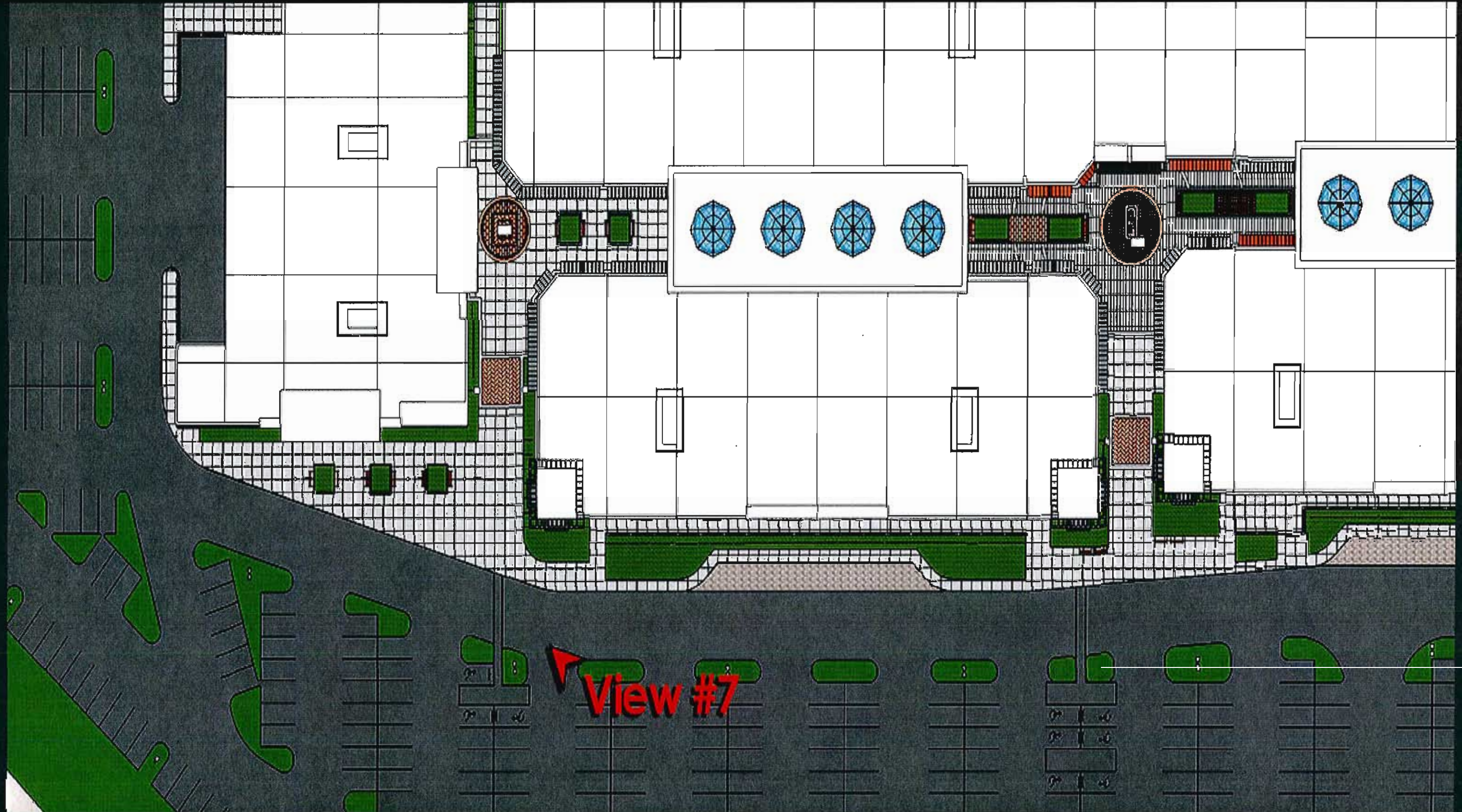












View #7



ALL WORK © DESIGN COLLECTIVE, INC.



VIEW 1 LOOKING NORTH



VIEW 2 LOOKING NORTH



VIEW 1 LOOKING SOUTH



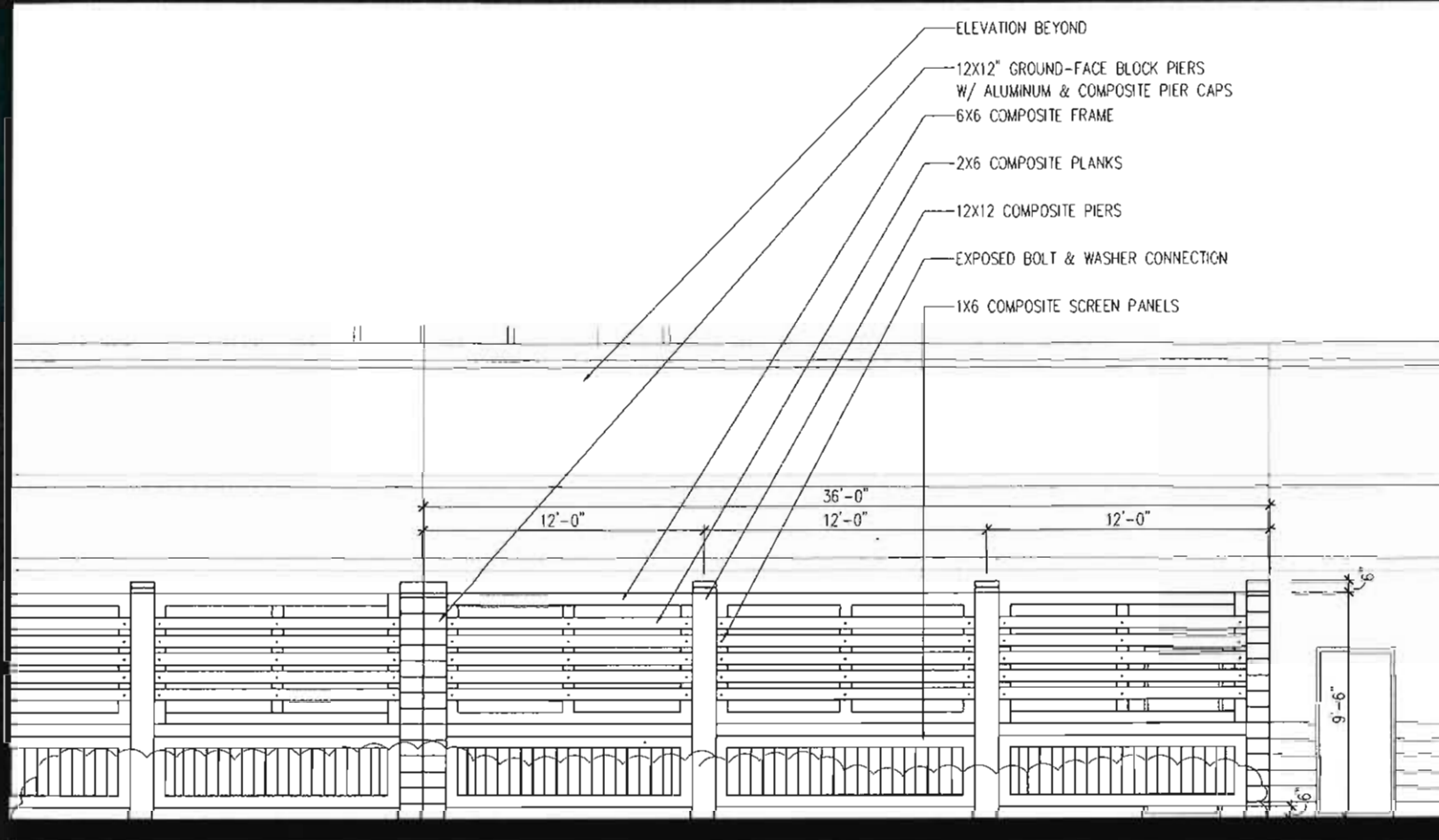
VIEW 2 LOOKING SOUTH



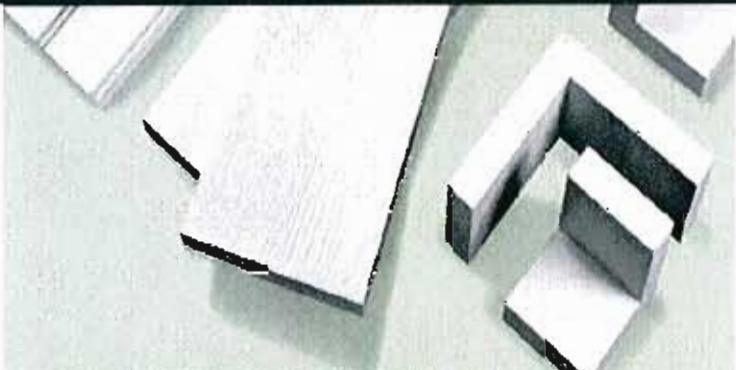
VIEW LOOKING EAST



VIEW LOOKING WEST



1 Screen Wall Detail
1/4" = 1'-0"

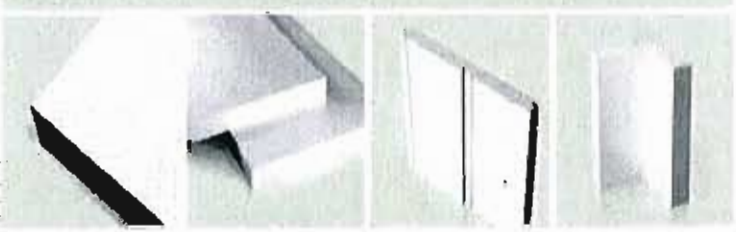


STANDARD OFFERINGS WITH ANYTHING-BUT-STANDARD FEATURES.

Trex Trim™ won't split or rot. With bonuses like our exclusive release film and Smooth-Edge® advantage, Trex Trim stays bright, crisp and beautiful. And it's all backed by our 25-year limited warranty, which keeps homes looking trim and truly longer than you've left the worksite.

TREXTRIM™ 3-D SHAPED PROFILES

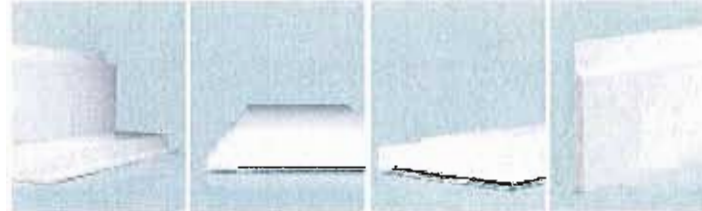
- Available in smooth, woodgrain, corner board or bevel board profiles
- It's a release film protects from paint to install on only offered by Trex
- Smooth-Edge advantage keeps dirt out



- TREXTRIM™ BOARD**
 - Smooth finish for a clean, modern look
 - Smooth release edge ideal for windows, doors, benches and more
 - May be finished and curved around installations
 - Available in board, corner board and shingle
- TREXTRIM™ PRO-GRADE**
 - Smooth finish and woodgrain in the center
 - Smooth release edge protects edge from dust, dirt and debris
 - May be finished and curved around installations
 - Available in board, corner board and shingle
- TREXTRIM™ BEVEL BOARD**
 - High-bevel surface shape
 - Ideal for rail, porch, dog-catch and dog-walk and not to be
 - Available in groove and reversible edge corner board
- TREXTRIM™ CORNER BOARD**
 - Ideal for cladding exterior
 - Pre-formed corner boards are easy to install
 - Open bottom open, providing long-lasting beauty
 - Available in smooth and woodgrain finishes

TREXTRIM™ BUILDER PROFILES: THE ULTIMATE CURB APPEAL

- Now Trex™ can truly finish strong—corner-to-corner—with the latest in ultra-low maintenance materials. With all the same profiles as traditional wood trim (and none of the headaches), Trex Trim completes the exterior beauty the Trex name stands for with easy-to-install and zero-maintenance.
- TREXTRIM™ BUILDER PROFILES**
- Available in 4 profiles
 - Quick & easy installation
 - Beautiful finish for decades to come
 - Includes over 100 styles of siding
 - Matched to its overall round-rounded angles



- CORNER**
 - Covers the high edge of siding at the corner of the building
- J-CHANNEL**
 - Covers the rough edge of a ding at a window
- J-CHANNEL WITH FLANGE**
 - Covers the rough edge of siding at a window
 - Provides a flange to accept the flange of a new construction window
- S-BEVEL**
 - Installed at the base of the building to provide the finished grade appearance by the corner or end of exterior siding



PROPOSED SCREENWALL
DETAIL

PROPOSED SCREENWALL
CLADDING MATERIAL



ARCHITECT'S STATEMENT OF DESIGN

We are pleased to present the proposed project for review by the City of Chesterfield Architectural Review Board. The proposed project is located on a parcel of land in the Levee District, north of North Outer 40 Road and Interstate 64, south of the existing levee/ bike and walking trail and east of the Boone's Crossing intersection/overpass.

The proposed project is a new, single-story outdoor fashion outlet shopping center of approximately 472,000 SF (Gross Building Area) with associated parking for approximately 2200 cars.

DESIGN STANDARDS-SITE DESIGN REQUIREMENTS

- **SITE RELATIONSHIP:** The proposed project is a freestanding outdoor complex of buildings located adjacent to the Hardee's Ice Rink Facility located to the east with a two-story bank/office building to the southwest.
- **MASSING:** While the proposed project will have greater frontage than either existing neighbor, the vertical heights and building massing will favorably relate to the existing structures.
- **CIRCULATION SYSTEM AND ACCESS:** The site will be accessed via the Boone's Crossing intersection, traveling north and then turning right (east) on a newly improved and expanded North Outer 40 Road. The building is located to the north side of the parcel, which places the major parking field between the building and North Outer 40. The building is an internally-oriented open pedestrian shopping street, with numerous courtyard entry points located along the south facade of the building. The customer enters from the south side of the buildings and screen walls and generous planting areas are utilized to screen service areas and equipment from view. A continuous inner ring road provides easy access to all sides of the building and numerous convenient recessed lay-by lanes, adjacent to the buildings, create areas for drop-off/pick-up and deliveries.
- **TOPOGRAPHY:** The site is essentially flat, but does have a gentle upward slope from North Outer 40 to the building's south curblin.

DESIGN STANDARDS- BUILDING DESIGN

- **SCALE:** The scale of the project is comparable to other upscale outlet centers and as such the dimensions used are common for this building type and have evolved over many projects and many years: 20' height for the base buildings with step-up accents from 24'-28'. Feature elements at the corners are at 30' and 40' respectively. Storefronts will typically have 11'-0" high glass. The maximum height proposed is 40' feet for feature building corner components.
- **DESIGN:** The basic diagram of the project is that of a classic retail pedestrian "shopping street": a double-loaded outdoor arcade. A Signature Building, Central Open Plaza (with spill-out dining areas), and Food Court Building are located at the center of the project with anchor buildings acting as "bookends" to the east and west. The project has an alternating series of landscaped open courtyards and sky-lit covered pavilions, which provide protected areas for merchandising and specialty uses.

The genesis of the building design was the desire to create a simple, elegant and understated building that was not overtly "stylistic" and would be comfortable within the architectural fabric of the Chesterfield community; a building that felt new, yet familiar at the same time. It is our belief that a successful retail design allows for the identity of the individual tenants to be clearly expressed while establishing a sympathetic baseline architectural identity for the overall center. Thus, our approach with Chesterfield Outlets is essentially "classic modern": clean horizontal lines, flat roofs on major building elements and simple brackets supporting projecting roofs, canopies, and trellises. The projecting canopies increase the building's energy efficiency by providing shading on the southern storefront exposures and thus reducing heat gain through the storefront glass. The length of the project is modulated by strategically located offsets in the building massing (both vertically and horizontally). These shifts in the storefronts create interest and variety along the full length of the major circulation spine. Rooftop equipment is set back to mid-span of each building and is screened by a louvered screening system, which continues the horizontal accent of the overall design.

DESIGN STANDARDS: MATERIALS AND COLORS

- **MATERIALS AND COLORS:** The material and color palettes were driven by the desire to create a sympathetic base building where the theme is the variety of the tenants' identities. To that end, we have selected a very neutral/earthy palette of colors and materials: beiges, tans, terra cotta, and warm gray tones with primarily white trim for much of the building. Feature buildings and special conditions throughout receive either veneer brick (in terra cotta or medium dark brown tones) or veneer stone treatments. Accent banding on all of the buildings visually connect the structures as well as define the locations of the "hard awnings" (sloping standing seam metal canopies). These elements appear throughout the project, primarily for weather protection for the shoppers.

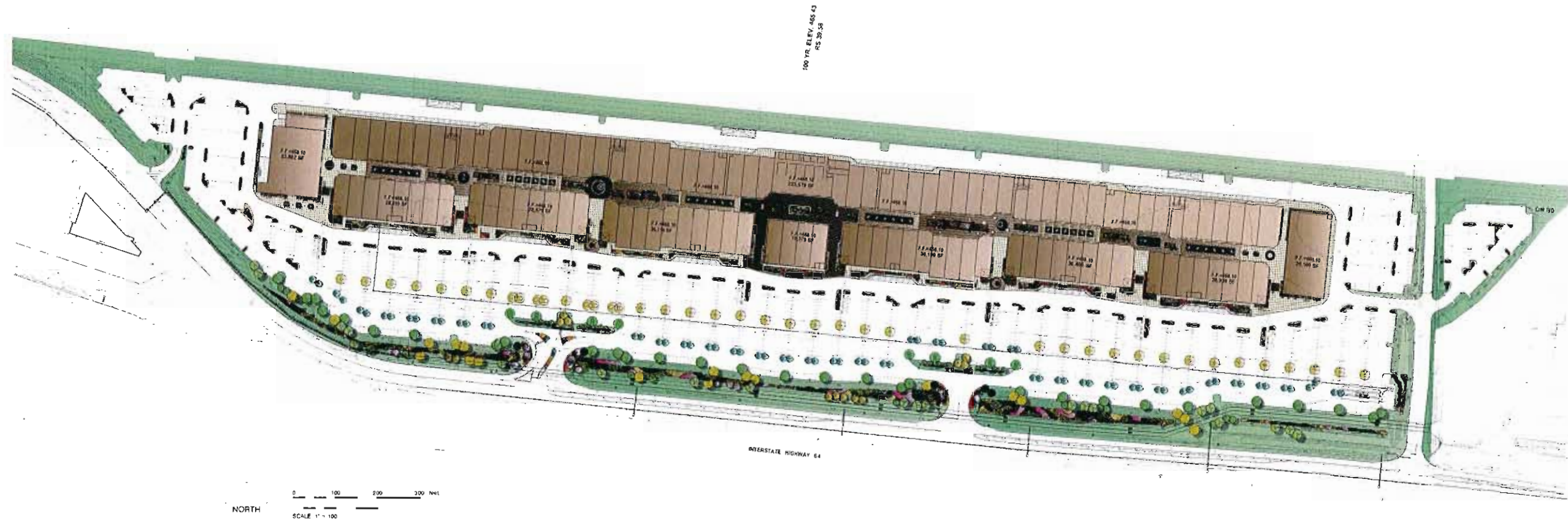
Painted tilt-up concrete panels with reveals and applied EIFS trim and cornices, characterize essentially three sides of each building. Aluminum and glass storefront and EIFS finishes are the major materials facing the internal shopping areas. Brick and stone veneer also appear at strategic locations along this spine.

The north elevation, facing the levee and the trail, is primarily painted and textured concrete similar to the south elevation. The accent banding and vertical and horizontal offsets that appear on the south elevation also appear on the north facade. Due to Levee District restrictions, no planting occurs on the north side of the building and screen walls do not appear due to vehicular circulation requirements.

- **LANDSCAPING DESIGN AND SCREENING:** The landscaping for the project was shaped by several conditions and parameters that are unique to this site. Due to its location in relation to the Chesterfield-Monarch Levee system, portions of the site will not allow deep rooted plants. For that reason, our plant palette is very restricted in plan choices which have both shallow roots and will survive in the soils found on the site. In these areas we are proposing the use of hearty perennial flowers, shrubs and grasses, which would grow well in wet as well as very dry soils and dovetails with our desire to accentuate the natural aspects of the landscaping. Several courtyards will have natural boulders integrated with the plant material in the designated landscape areas and will feature rain garden plants that will grow well in the shady and wet conditions. The selection of plant material is a carefully orchestrated composition of seasonal color, texture, and durability that is an integral complement to the buildings in the project. The landscaping creates soft edges next to the buildings, screens elements at strategic points, and clearly defines entry points into the main shopping spine.

- **HARDSCAPE:** The hardscape surface throughout the project is primarily scored and/or stamped concrete with concrete pavers being proposed at feature entrances/intersections /courtyards.

- **LIGHTING:** The lighting design intent is to add some theatrical drama to the pedestrian shopping areas via strategic accenting of architectural facades and landscaping elements. Decorative lighting in the pedestrian common areas will have 100% cut-off lenses and /or caps on the fixtures.



LANDSCAPE MASTER PLAN FOR THE PROPOSED
Chesterfield Outlets
 CHESTERFIELD, MISSOURI
 Prepared for: T-O Ventures, LLC

ARCHITECTS:

DESIGN COLLECTIVE

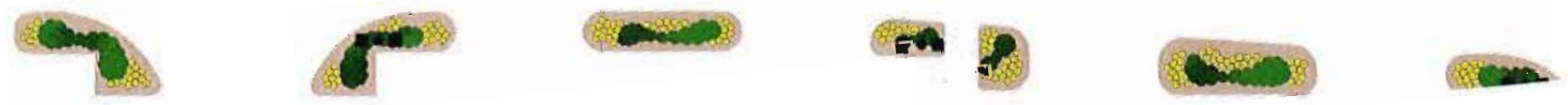
601 East Pratt St # 300 Baltimore, MD 21202-3123
 (410) 685-6655

LANDSCAPE ARCHITECTS:

landscape

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 100 EAST BALTIMORE STREET, BALTIMORE, MD 21202-3123
 TEL: 410-685-6655 FAX: 410-685-6656



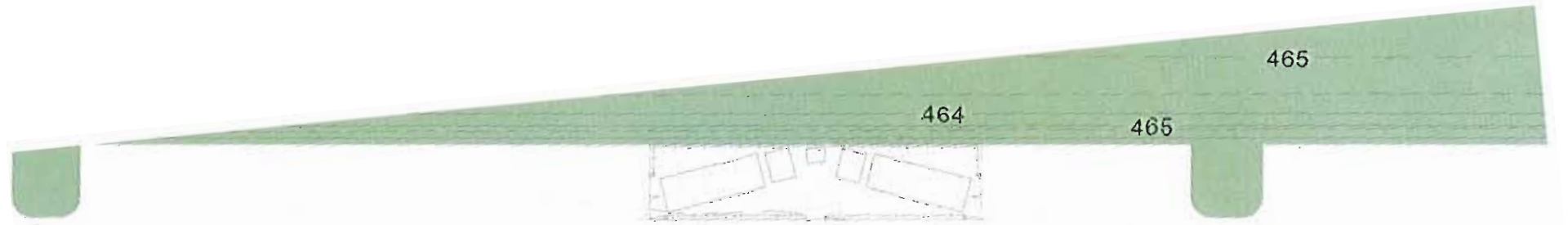


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F.F.=468.10
15,379 SF

F.F.=468.10
36,109 SF



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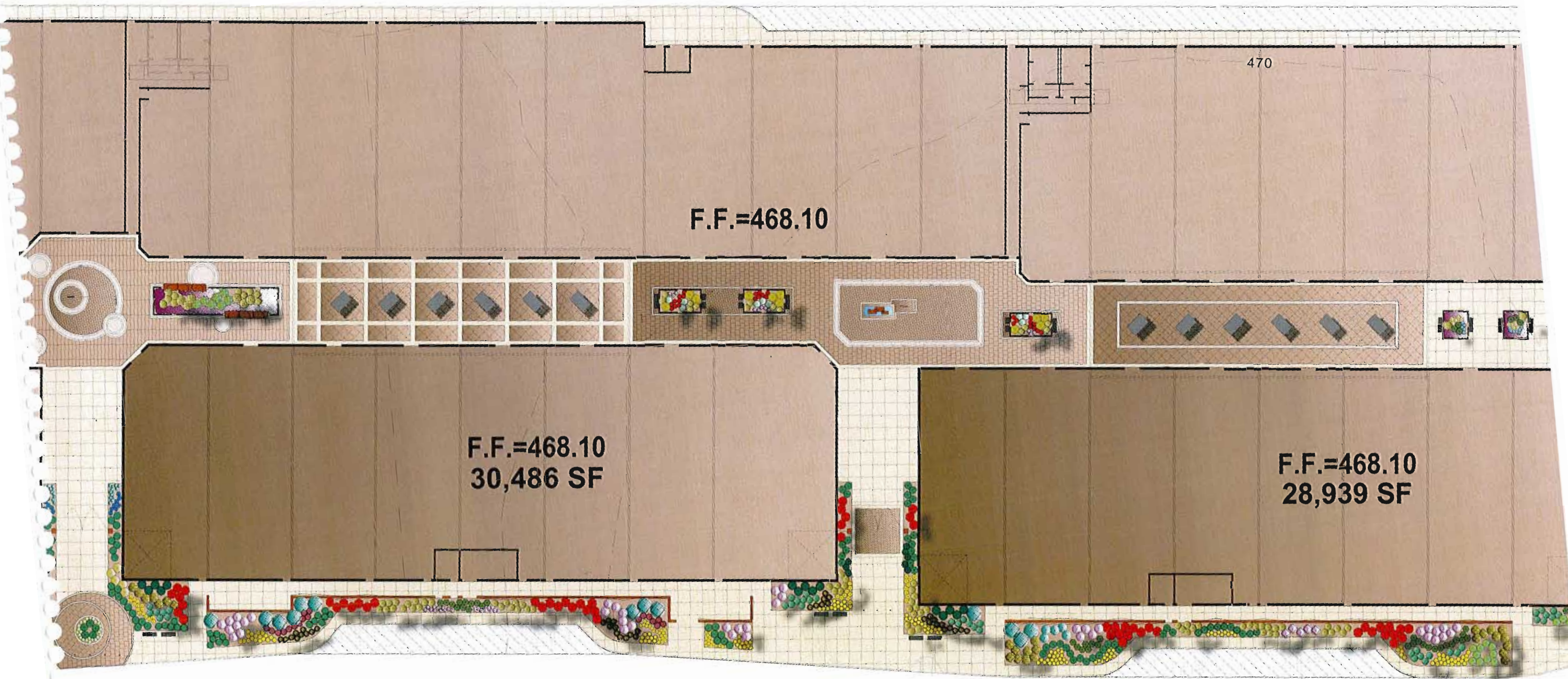
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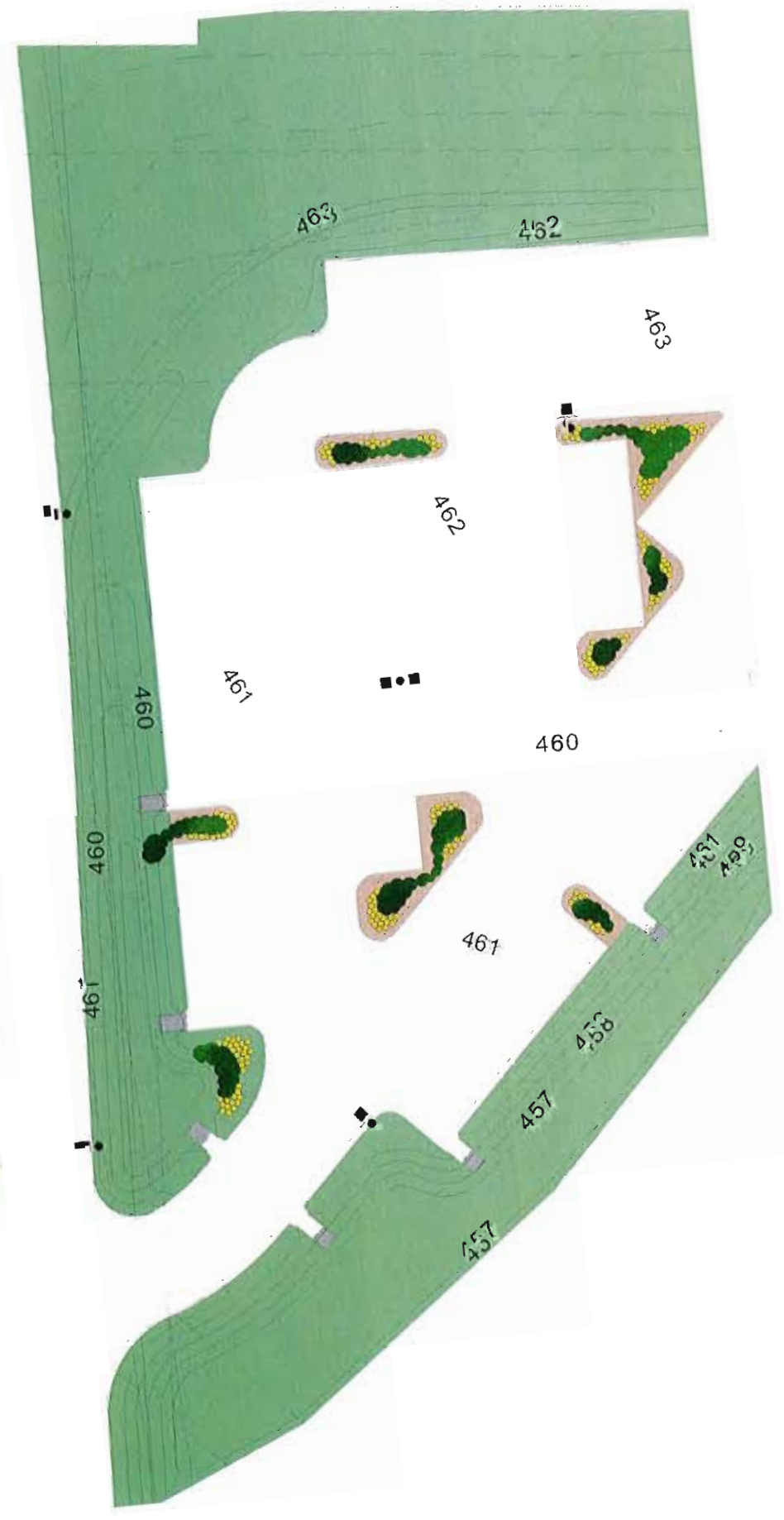
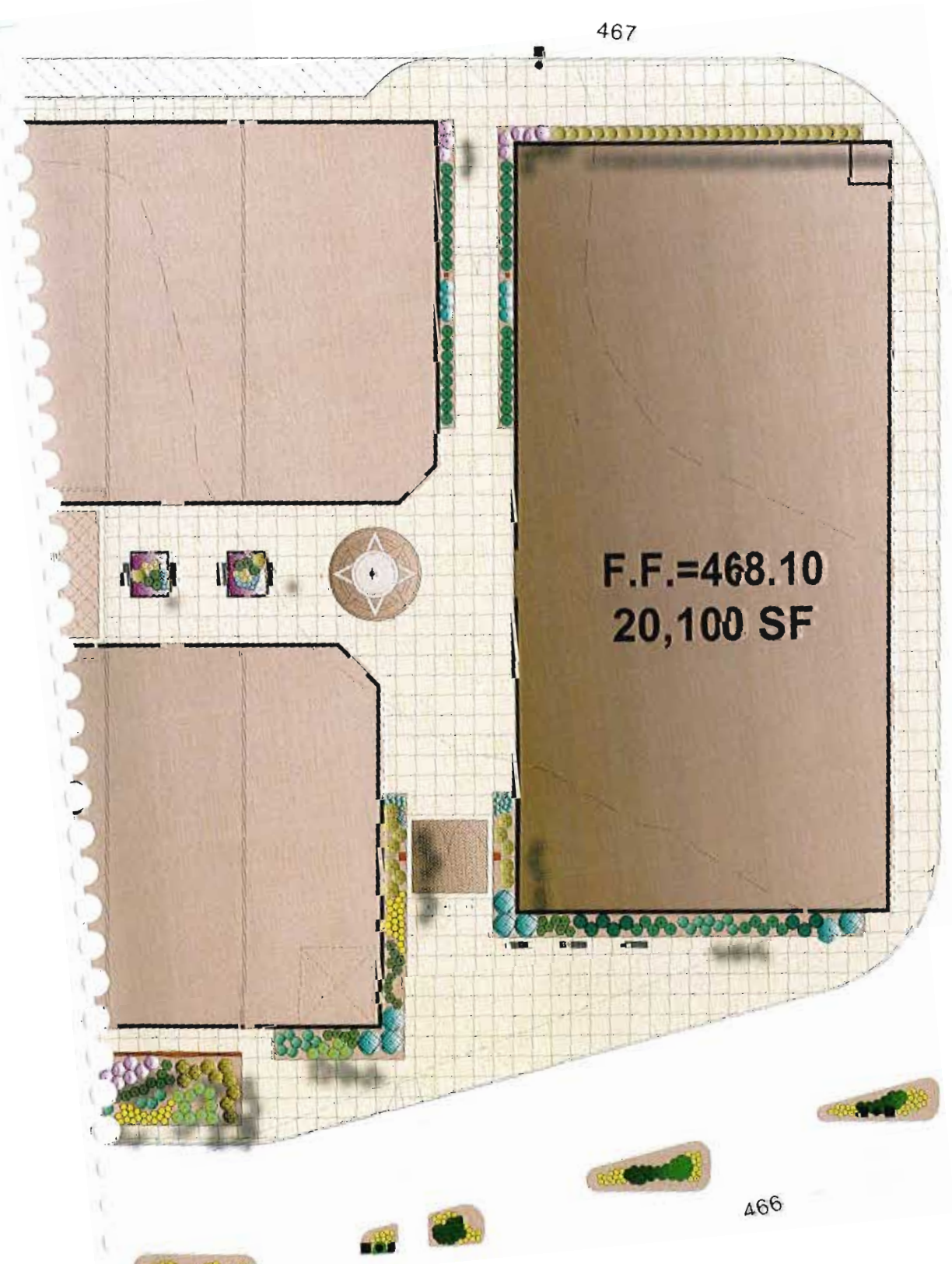
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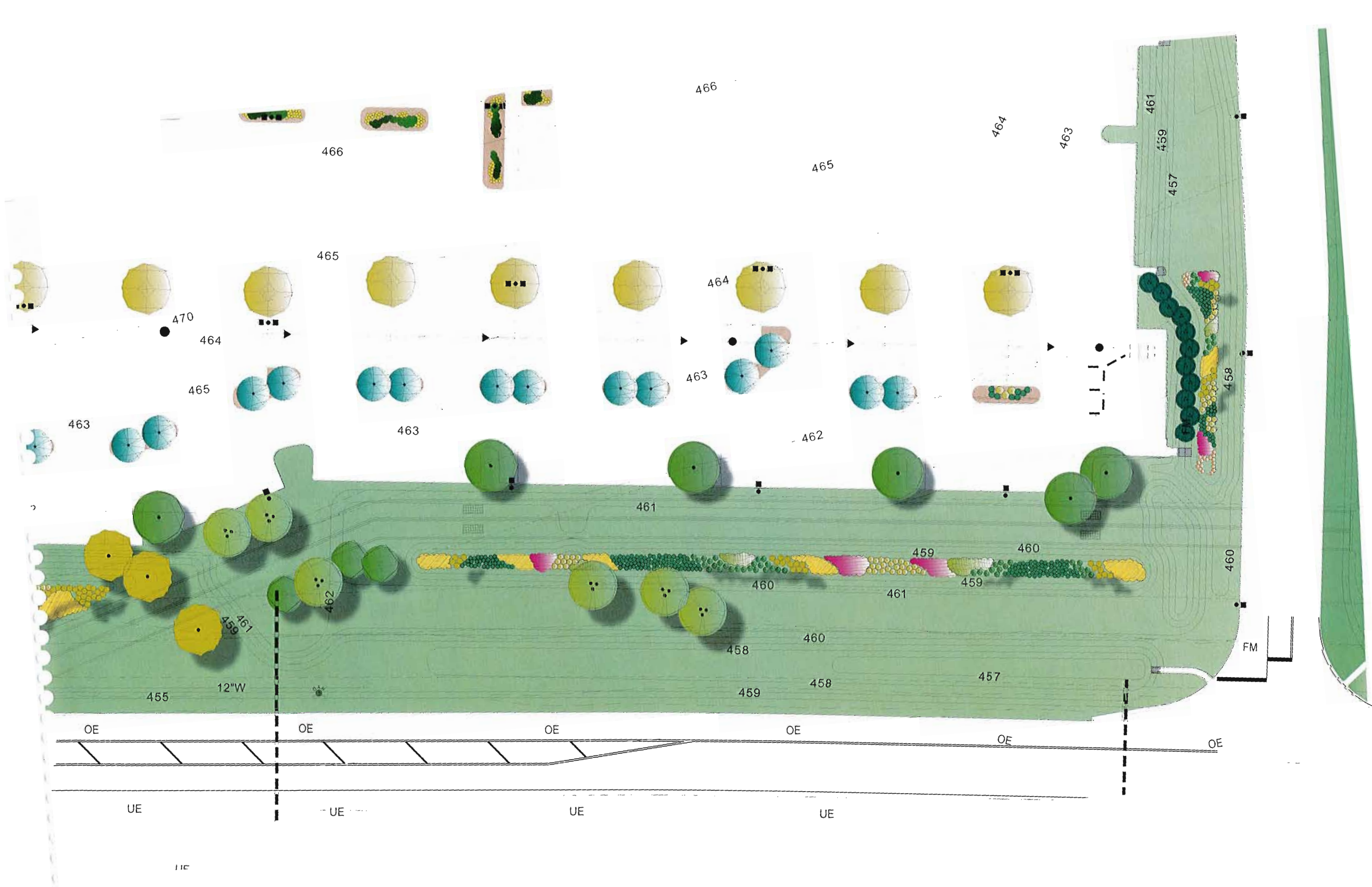
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F.F.=468.10
30,486 SF

F.F.=468.10
28,939 SF







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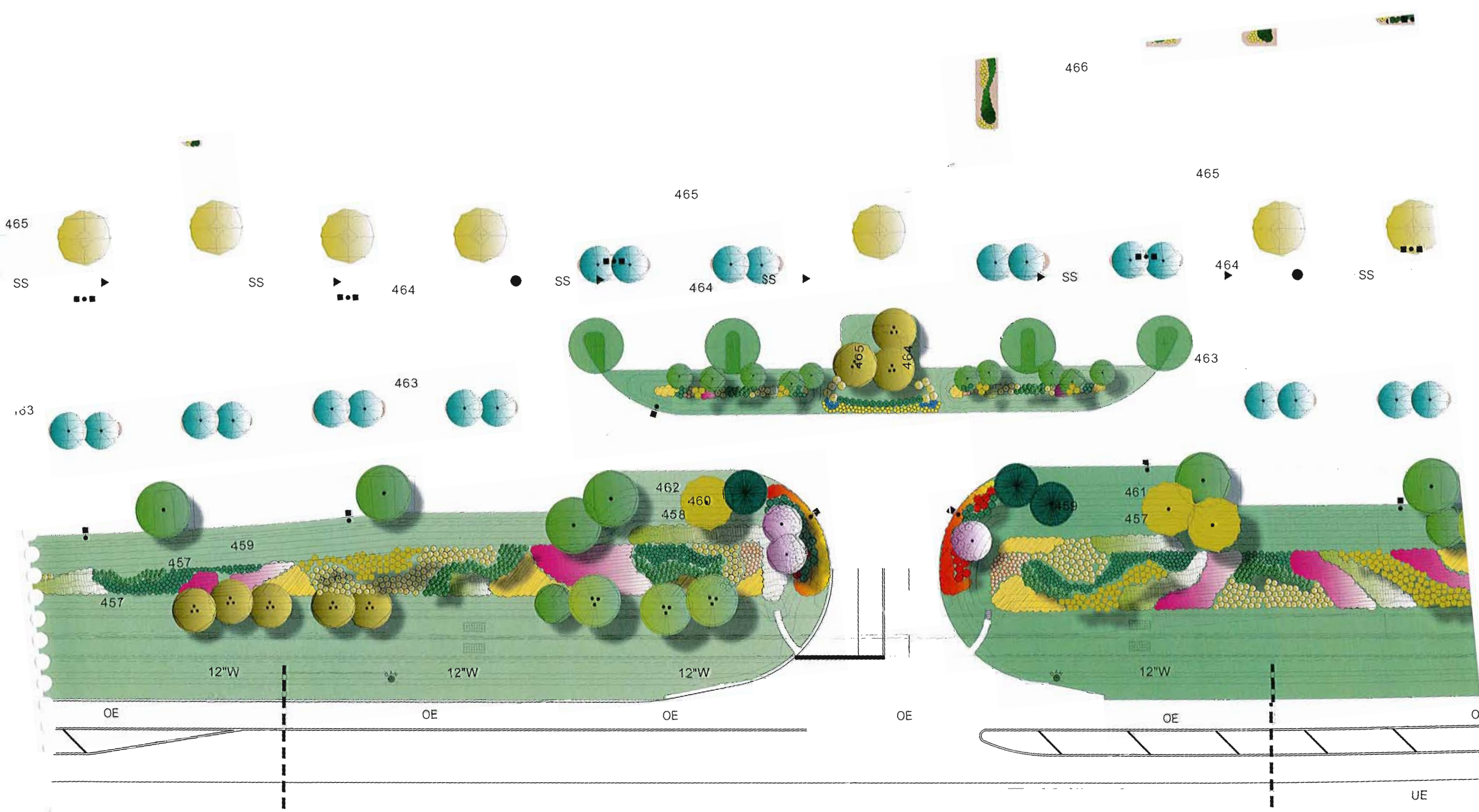
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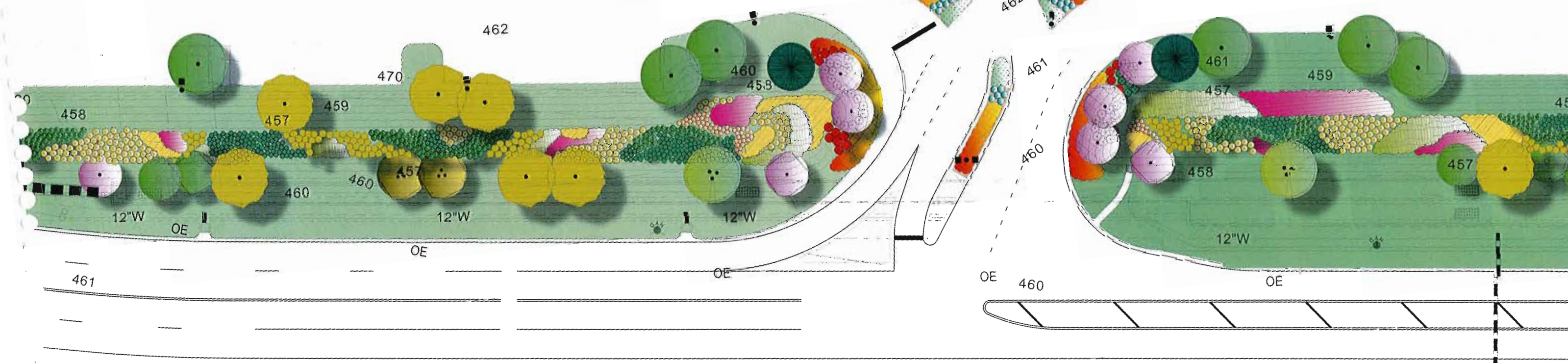
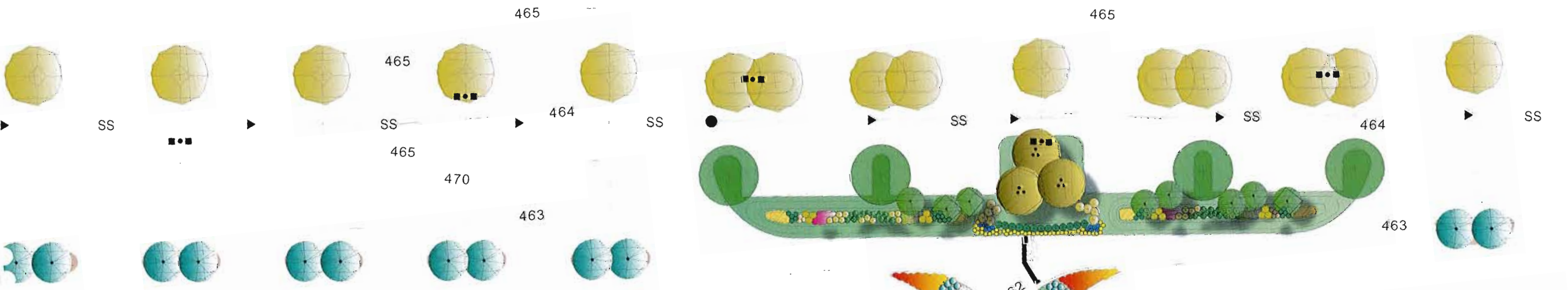
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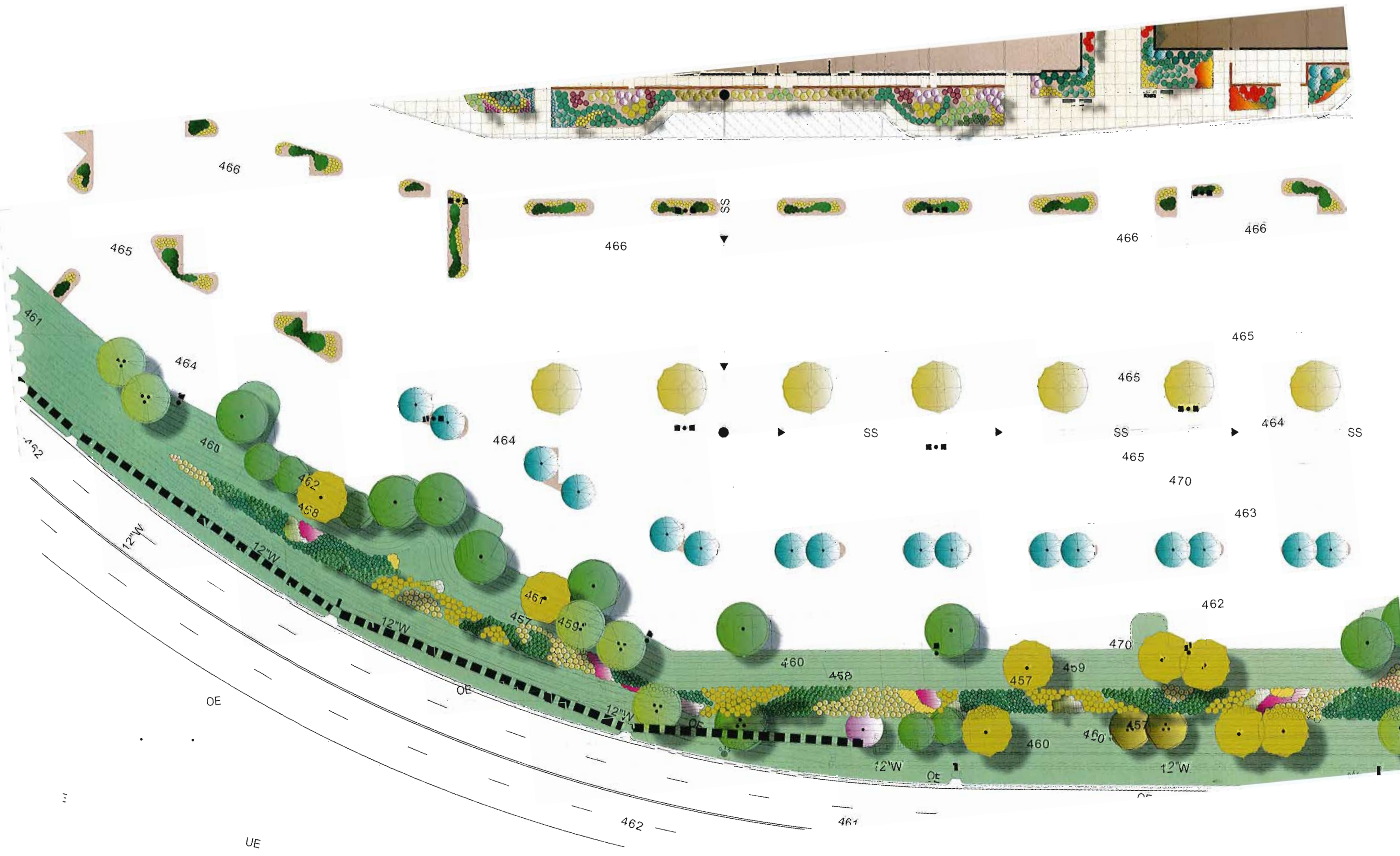
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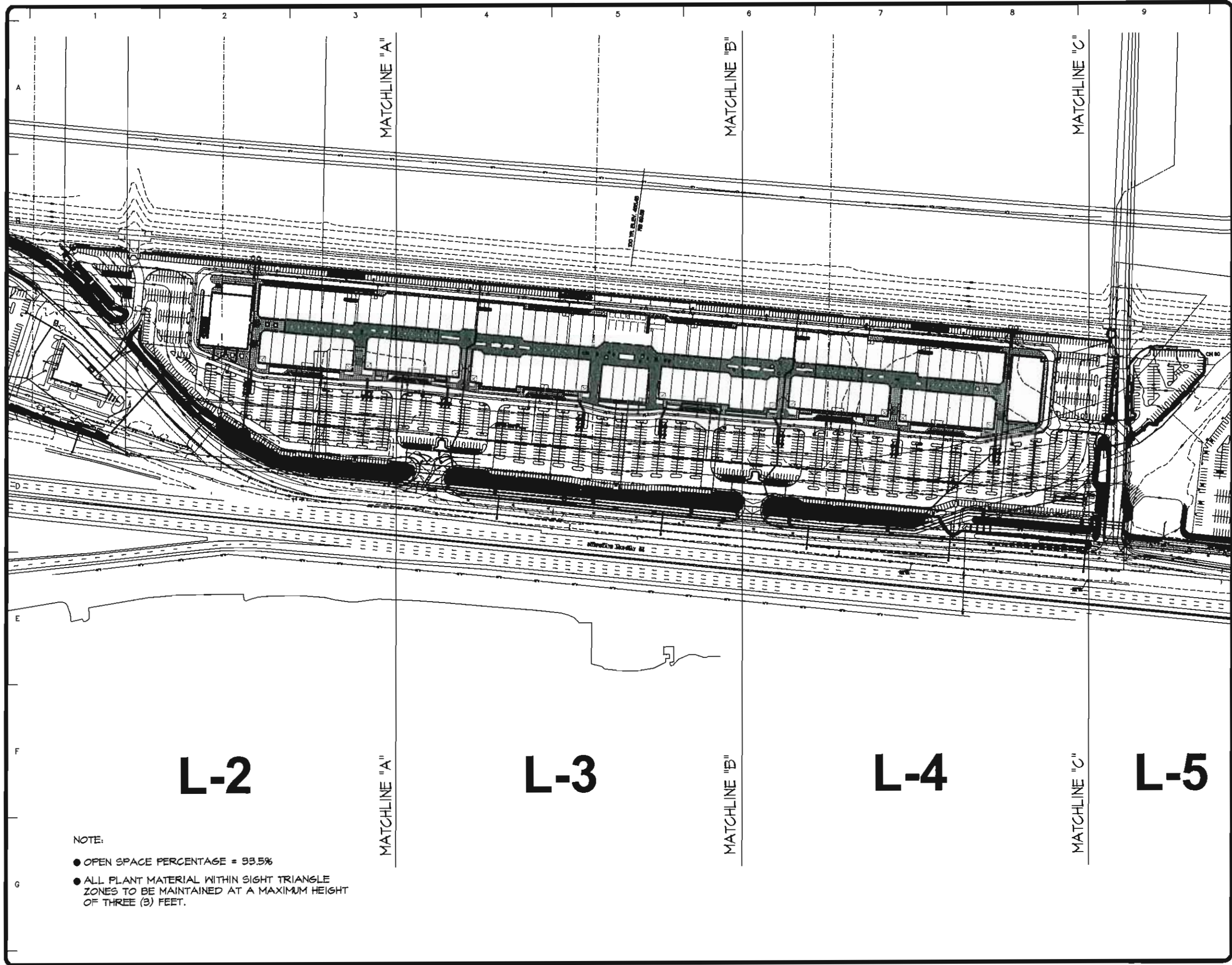
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NOTE:

- OPEN SPACE PERCENTAGE = 93.5%
- ALL PLANT MATERIAL WITHIN SIGHT TRIANGLE ZONES TO BE MAINTAINED AT A MAXIMUM HEIGHT OF THREE (3) FEET.

REVISIONS	BY

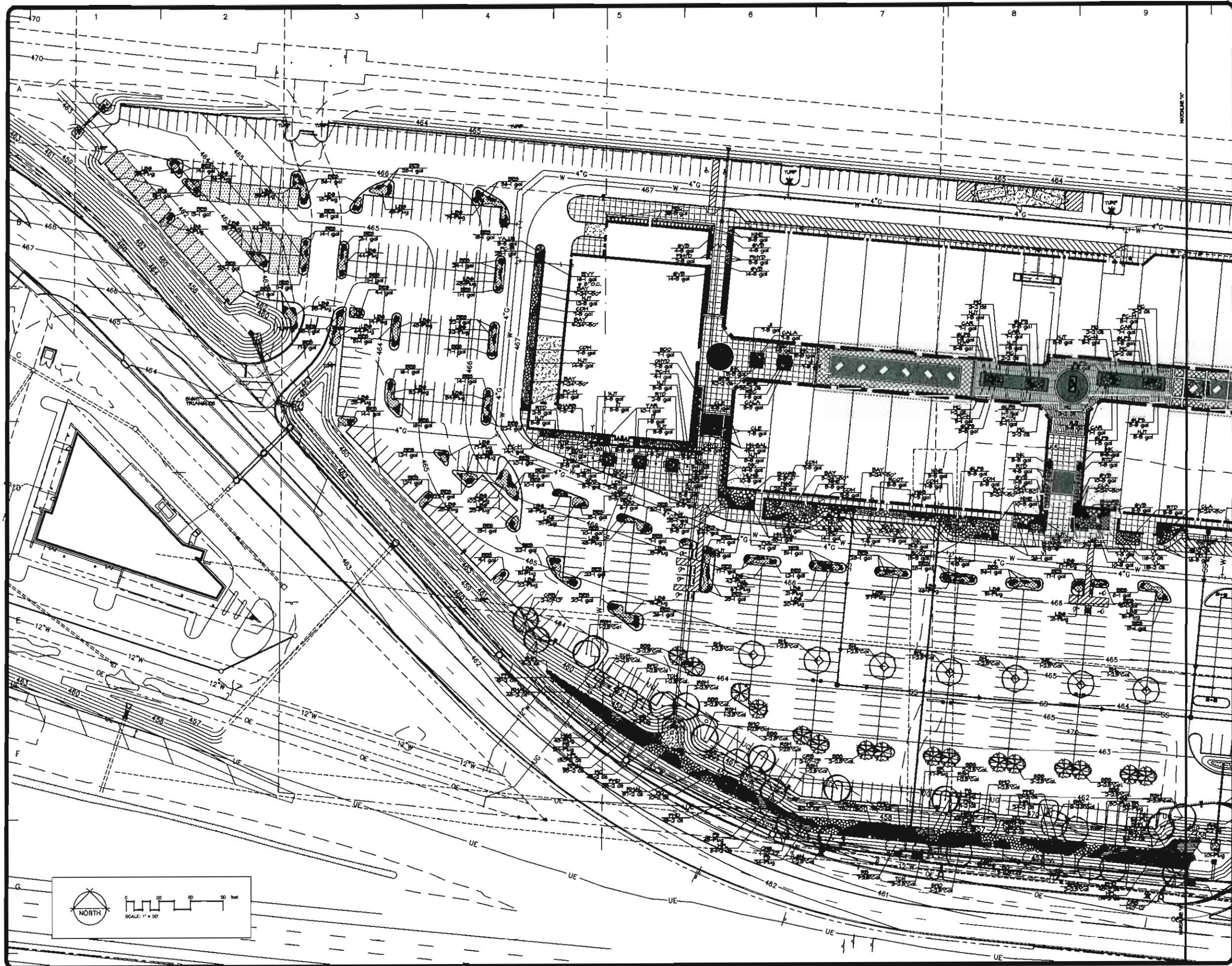
LANDSCAPE TECHNOLOGIES

47 Jackson Creek Drive
 St. Charles, Missouri 63305
 Phone: (636) 261-1000
 Fax: (636) 261-1001
 No Landscape Professionals Compensation Disclosure

MARSHALL N. HANCOCK
 ARCHITECT
 MISSOURI ARCHITECTS ASSOCIATION
 No. 123456
 DIV. 123456

**LANDSCAPE MASTER PLAN FOR THE PROPOSED
 Chesterfield Outlets
 CHESTERFIELD, MISSOURI**

DRAWN	R. HANCOCK
CHECKED	R. HANCOCK
DATE	12/15/10
SCALE	1"=100'-0"
JOB NO.	2010-04
SHEET	L-1
OF	04 SHEETS



REVISIONS	BY

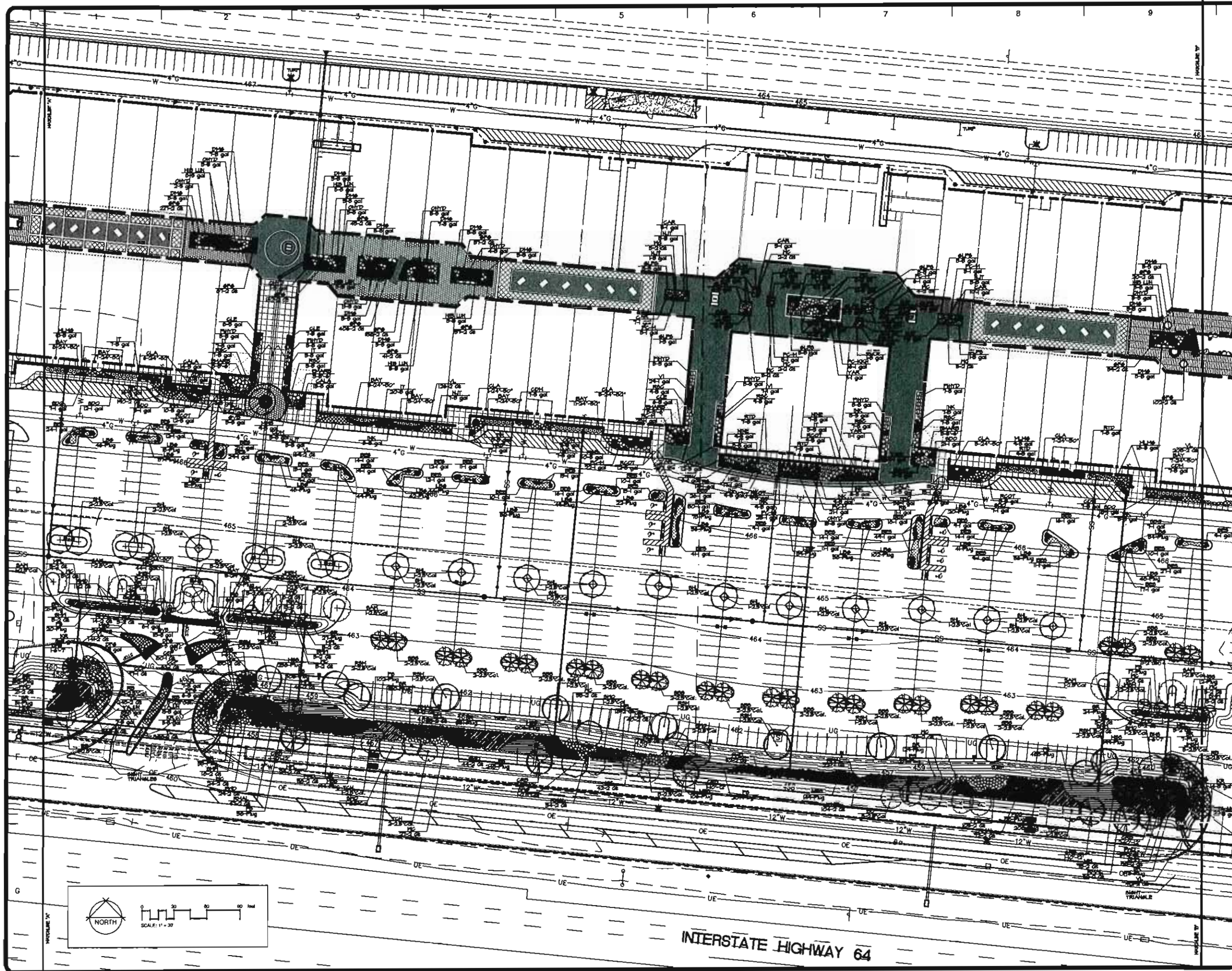
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 St. Charles, Missouri 63043
 Phone: (636) 261-2200
 Fax: (636) 261-2201
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 LICENSE NO. 10000
 MISSOURI LANDSCAPE ARCHITECTS ASSOCIATION
 2010 VOTED

PLANTING PLAN FOR THE PROPOSED
Chesterfield Outlets
CHESTERFIELD, MISSOURI

DRAWN BY: HARRIS
 CHECKED BY: HARRIS
 DATE: 12/21/12
 SCALE: 1"=30'-0"
 JOB NO.: 2011-84
 SHEET
L-2
 OF SIX SHEETS



REVISIONS	BY

landscape
TECHNOLOGIES

4100 S. Grand Blvd. Suite 200
 St. Louis, MO 63108
 Phone: (314) 433-1000
 Fax: (314) 433-1001
 www.landscape-technologies.com

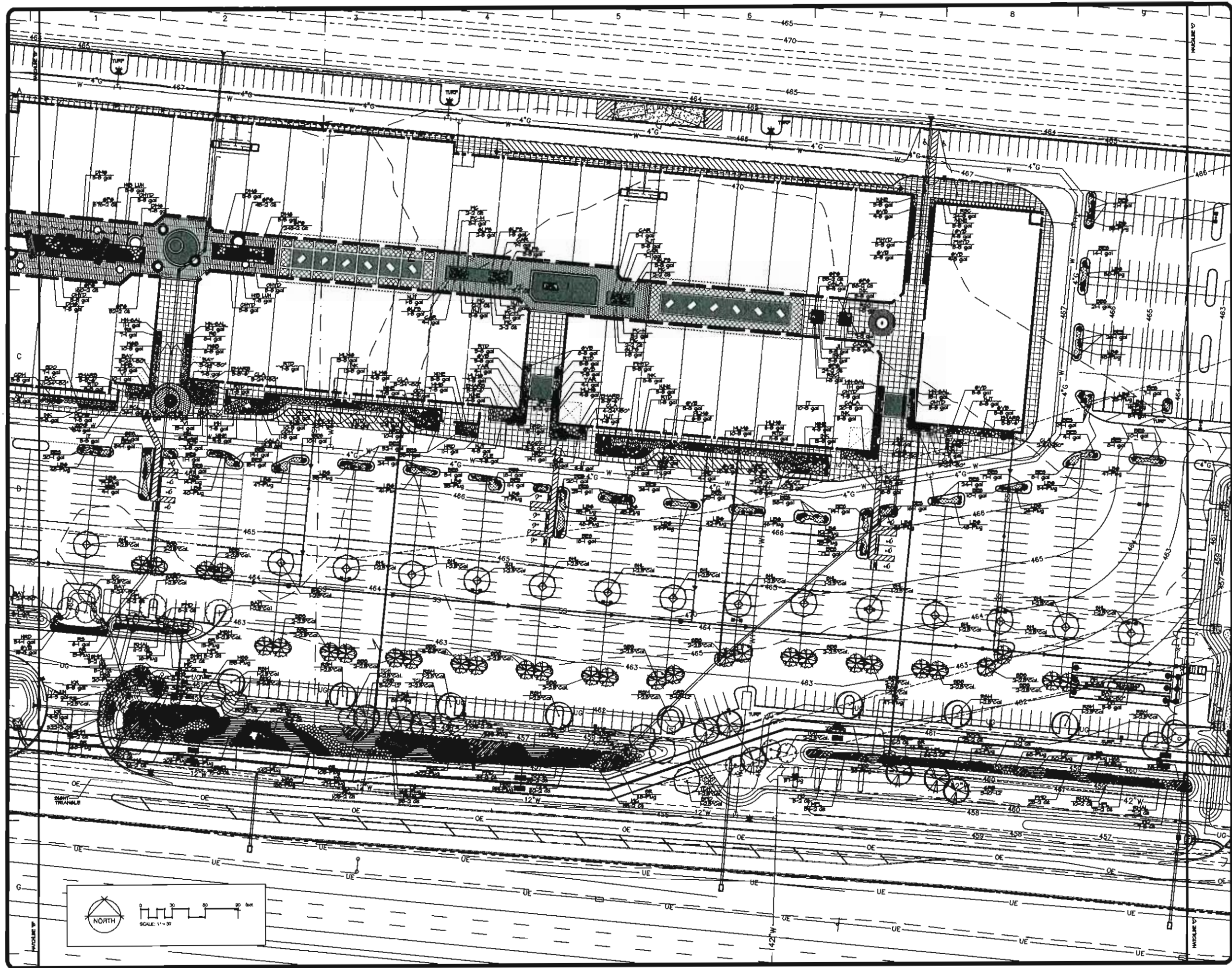
PROJECT: CHESTERFIELD OUTLETS
 DRAWING: L-3
 DATE: 11/11/11
 SCALE: AS SHOWN
 DRAWN BY: J. HARRIS
 CHECKED BY: R. HARRIS
 IN CHARGE: J. HARRIS

PLANTING PLAN FOR THE PROPOSED
Chesterfield Outlets
 CHESTERFIELD, MISSOURI

DRAWN BY: J. HARRIS
 CHECKED BY: R. HARRIS
 DATE: 11/11/11
 SCALE: AS SHOWN
 JOB NO.: 2011-011
 SHEET:

L-3

OF SIX SHEETS

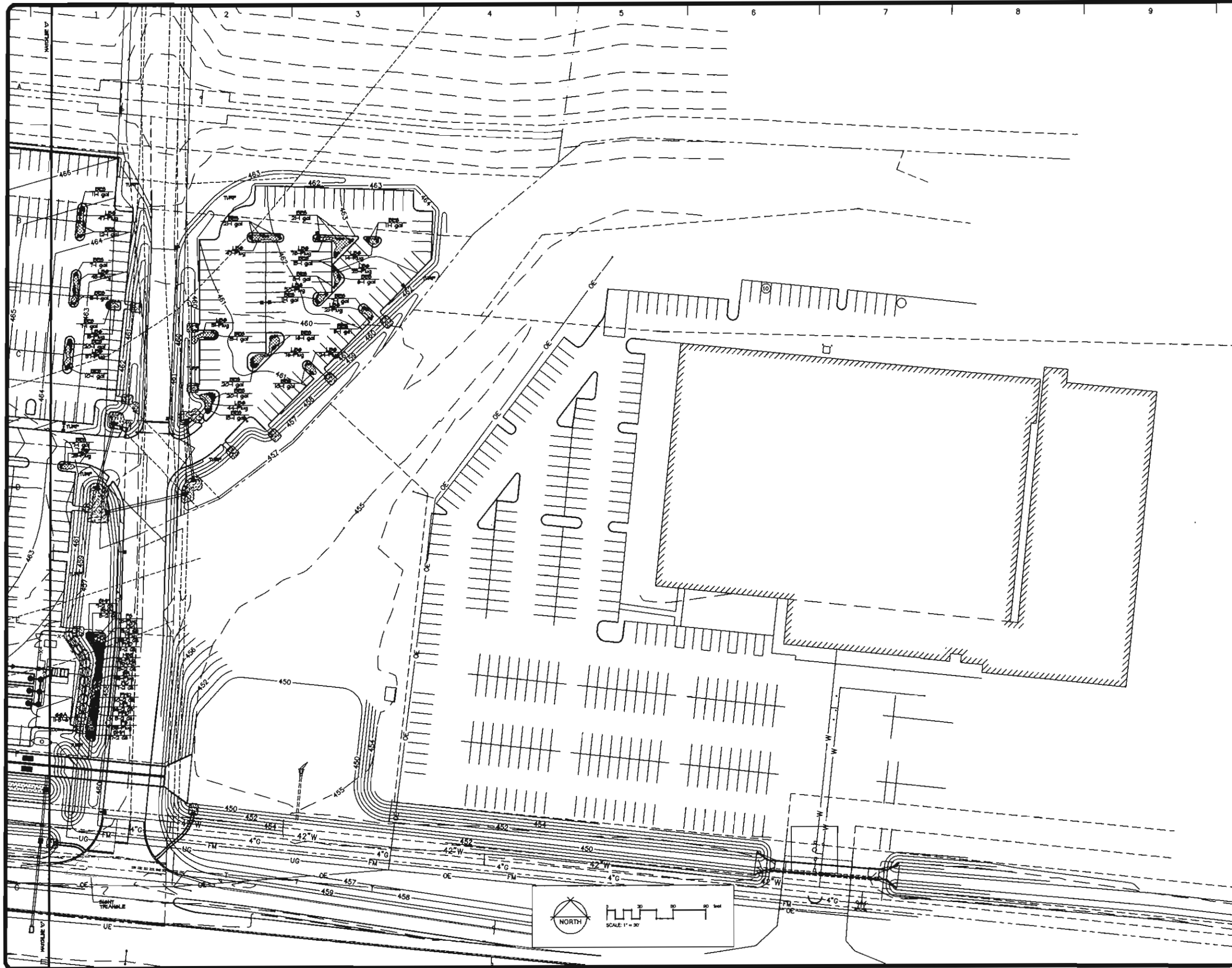


REVISIONS	BY

Landscape TECHNOLOGIES
 17 JACOBS CREDIT DRIVE
 11000 CEDAR CREEK
 ST. CHARLES, MISSOURI 63043
 PHONE: (636) 261-8888
 FAX: (636) 261-8889
 WWW.LANDSCAPE-TECHNOLOGIES.COM
 P.O. BOX 100000
 ST. LOUIS, MISSOURI 63110

**PLANTING PLAN FOR THE PROPOSED
 Chesterfield Outlets
 CHESTERFIELD, MISSOURI**

DRAWN BY: HARRIS
 CHECKED BY: HARRIS
 DATE: 10/21/04
 SCALE: 1"=30'-0"
 JOB NO.: 201-04
 SHEET:
L-4
 OF SIX SHEETS



REVISIONS	BY

landscape
TECHNOLOGIES

47 Jackson Creek Drive
St. Louis, MO 63114
Phone: (314) 631-0000
Fax: (314) 631-0000
www.landscape-technologies.com

Professional Landscaper
Missouri License #A000000000
Professional Engineer
Missouri License #0000000000
DWTB, USA/CA

PLANTING PLAN FOR THE PROPOSED
Chesterfield Outlets
CHESTERFIELD, MISSOURI

DRAWN
K. HARRIS

CHECKED
R. HARRIS

DATE
1/28/10

SCALE
1"=60'-0"

JOB NO.
2009-004

SHEET
L-5

OF 80 SHEETS

LANDSCAPE GUIDELINE SPECS:

GENERAL:

- 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.
- The landscape contractor shall be responsible for any coordination with other site related work being performed by other contractors. Refer to architectural drawings for further coordination of work to be done.
- 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 1-800-DIG-RIE).
- 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.
- It shall be the landscape contractor's responsibility to:
 - Verify all existing and proposed features shown on the drawings prior to commencement of work.
 - Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
 - Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect prior to installation.
- 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 type or size of plant materials will be accepted without written approval from the landscape architect.
- Provide single-stem trees unless otherwise noted in plant schedule.
- All plant material shall comply with the recommendations and requirements of ANSI Z60.1 "American Standards for Nursery Stock".
- It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect prior to acceptance. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.
- 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.

INSURANCE:

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

MULCH:

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

MAINTENANCE:

- Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period of 12 months after acceptance.
- Contractor shall ensure that only competent and trained personnel shall provide such services and that such services be provided in a timely manner.

TOPSOIL:

- 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.
- 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.
- 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 to apply pre-emergent herbicide to all planting beds upon completion of planting operations and before application of shredded bark mulch.

MISC. MATERIAL:

- Provide stakes and deadmen of sound, hard wood, free of knots and defects.
- Tree wrap tape shall be 4" minimum, designed to prevent borer damage and winter freezing. Additionally only B-ply taping material shall be used.

TURF:

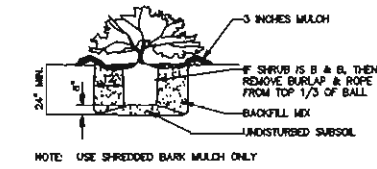
- All disturbed lawn areas are to be sodded with a high quality Turf Type fescue. Lawn areas shall be unconditionally warranted for a period of 90 days from date of final acceptance. Bare areas more than one square foot per any 50 square feet shall be replaced.
- No broken pieces, irregular pieces or torn pieces will be accepted.
- All sod shall be placed a maximum of 24 hours after harvesting.
- Recondition adjacent existing lawn areas damaged by Contractor's operations including equipment/material storage and movement of vehicles.

WARRANTY:

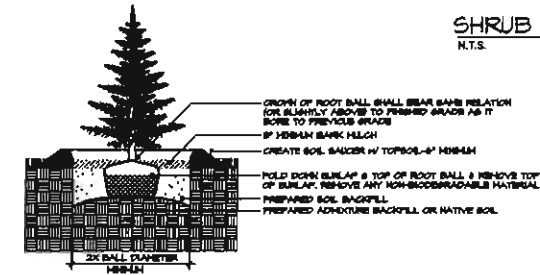
- All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after installation at 100% of the installed price.
- Any plant material found to be defective shall be removed and replaced within 90 days of notification or in growth season determined to be best for that plant.
- 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 warranty.
- 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.

PLANT SCHEDULE				
TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE	MATURE HEIGHT
BC	15	Bald Cypress / Taxodium distichum	2.8' Cal	45' +
CRB	21	Heritage River Birch / Betula nigra 'Cully'	10" L2"	45' +
LSM	1	Legacy Sugar Maple / Acer saccharum 'Legacy'	2.8' Cal	45' +
SMO	2	Sweetbark Oak / Quercus acutissima	2.8' Cal	45' +
SMO	1	Swamp White Oak / Quercus bicolor	2.8' Cal	45' +
RSM	50	Red Sunset Maple / Acer rubrum 'Franksred'	2.8' Cal	45' +
BHL	42	'Skyline' Locust / Aesculus bicolor 'Skyline'	2.8' Cal	45' +
EVERGREEN TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE	MATURE HEIGHT
BNS	9	Black Hill Spruce / Picea glauca densata	6" T	50'-60'
EMARD	70	Emerald Arborvitae / Thuja occidentalis 'Emerald'	5" S	50'-60'
EMSA	11	Green Giant Arborvitae / Thuja plicata 'Green Giant'	5" S	45' +
FLOWERING TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE	MATURE HEIGHT
REB	14	Redbud / Cercis canadensis	2.8' Cal.	25'-30'
BBS	72	Shadblow Serviceberry / Amelanchier canadensis	2.8' Cal.	25'-30'
EMHM	15	Emerald Magnolia / Magnolia virginiana 'Jim Nelson'	2.8' Cal.	15'-20'
TCH	15	Thomas's Cockspur Hawthorn / Crataegus crusgalli var. harrisi	2.8' Cal.	15'-20'
SHRUBS	QTY	COMMON NAME / BOTANICAL NAME	SIZE	
RTD	17	Batley's Red-twig Dogwood / Cornus sericea 'Cardinal'	5 gal	
CDM	101	Cherry Dazzle Myrtle / Lagerstroemia 'AMAZON I'	5 gal	
CLA	81	Chicago Lustre Arrowwood / Viburnum dentatum 'Chicago Lustre'	24" BO"	
INK	191	Compact Inkberry / Ilex glabra 'Compacta'	5 gal	
YALIN	84	Compact Youngslown Andorra Juniper / Juniperus horizontalis 'Youngslown'	5 gal	
NINE	95	Diablo Purple Ninerbark / Physocarpus opulifolius 'Diablo' TM	5 gal	
PIHFD	44	Pine & Ice Hydrangea / Hydrangea paniculata 'Pine's Red'	5 gal	
SVS	16	Green Velvet Boxwood / Buxus Green Velvet'	5 gal	
SLPS	62	Sho-Len Fragrant Sumac / Rhus aromatica 'Sho-Len'	5 gal	
LDN	4	Little Devil Ninerbark / Physocarpus opulifolius 'Donna May'	5 gal	
IT	47	Little Henry Sheeshopire / Red virginica Little Henry'	5 gal	
MBB	56	Morris Midget Boxwood / Buxus microphylla japonica 'Morris Midget'	5 gal	
NJT	207	New Jersey Tea / Ceanothus americanus	5 gal	
BAY	158	Northern Bayberry / Myrica pensylvanica	24" BO"	
OHFD	71	Oakleaf Hydrangea / Hydrangea quercifolia	5 gal	
PH	45	Red Sprite Ninerbark / Ilex verticillata 'Red Sprite'	5 gal	
RCOT	44	Rock Cotoneaster / Cotoneaster horizontalis	5 gal	
RBC	46	Ruby Spice Clethra / Clethra alnifolia 'Ruby Spice'	5 gal	
MHB	75	Winter Sun Boxwood / Buxus microphylla 'Winter Sun'	5 gal	
GLB	76	Humminger's Summersweet / Clethra alnifolia 'Humminger's'	5 gal	
ANNUALS/PERENNIALS	QTY	COMMON NAME / BOTANICAL NAME	SIZE	
BBN	5	Bartered Bride Joe-Pye Weed / Eupatorium maculatum 'Bartered Bride'	2 gal	
CAR	102	Cardinal Flower / Lobelia cardinalis	1 gal	
HIB LUN	54	Dwarf Hydrangea / Hibiscus moscheutos 'Luna Pink Sun'	5 gal	
BBS	2,870	Black-eyed Susan / Rudbeckia hirta 'Goldstrm'	1 gal	
HBS	816	Happy Returns Daylily / Hemerocallis hybrid 'Happy Returns'	1 gal	
JL	26	Japanese Iris / Iris ensata	5 gal	
MN-BAL	155	May Night Salvia / Salvia nemorosa 'May Night'	1 gal	
PCL	75	Pink Chablis Lantana / Lantana maculatum 'Pink Chablis'	1 gal	
PC-M	228	Purple Coneflower / Echinacea purpurea 'Magna'	1 gal	
PC-KKH	28	Purple Coneflower / Echinacea purpurea 'Kim's Knee High' TM	1 gal	
RS	64	Russian Sage / Perovskia atriplicifolia	1 gal	
SDO	150	Stella de Oro Daylily / Hemerocallis hybrid 'Stella de Oro'	1 gal	
VI	87	Variegated Iris / Iris pallida 'Variegata'	1 gal	
YAR	121	Yarrow / Achillea filipendula 'Garnation Gold'	1 gal	
FORBS	QTY	COMMON NAME / BOTANICAL NAME	SIZE	
MFL	1,455	Monkeyflower / Mimulus ringens	2 GB	
PNB	446	Pickering Noddy / Portulaca cordata	2 GB	
RCAL	404	Rose Mallow / Hibiscus moscheutos	2 GB	
SHPT	224	Swamp Milkweed / Asclepias incarnata	2 GB	
TC	844	Wild Carna / Thalictrum dasycarpum	2 GB	
GRASSES	QTY	COMMON NAME / BOTANICAL NAME	SIZE	
DFB	25	Dwarf Fountain Grass / Pennisetum alopecuroides 'Hahnke'	5 gal	
DHS	66	Dwarf Maiden Grass / Miscanthus sinensis 'Yakushima'	5 gal	
GALA	140	Feenster's Reed Grass / Calamagrostis acutiflora 'Karl Foerster'	5 gal	
MLM	117	Morning Light Maiden Grass / Miscanthus sinensis 'Morning Light'	5 gal	
ROSES	QTY	COMMON NAME / BOTANICAL NAME	SIZE	
KR	85	Knockout Rose / Rosa Knockout'	5 gal	
VINES	QTY	COMMON NAME / BOTANICAL NAME	SIZE	
BVY	15	English Ivy / Hedera helix	1 gal	
GROUND COVERS	QTY	COMMON NAME / BOTANICAL NAME	SIZE	
	222 sq	Cotton Candy Creeping Phlox / Phlox subulata 'Cotton Candy'	1 GB @ 12" oc	
	2,854 sq	Variegated Liriope / Liriope muscari 'Variegata'	2 GB @ 12" oc	
NATIVE GRASSES	QTY	COMMON NAME / BOTANICAL NAME	SIZE	
	6,482 sq	Fringed Sedge / Carex oshika	Plg @ 15" oc	
	2,467 sq	Golden Potal Grass / Alopecurus pratensis 'Aureovariegatus'	2 GB @ 12" oc	
	1,456 sq	Little Bluestem Grass / Schizachyrium scoparium	Plg @ 15" oc	
	8,224 sq	Morning Star Sedge / Carex gray	Plg @ 15" oc	
	4,206 sq	Soft Rush / Juncus effusus	Plg @ 15" oc	

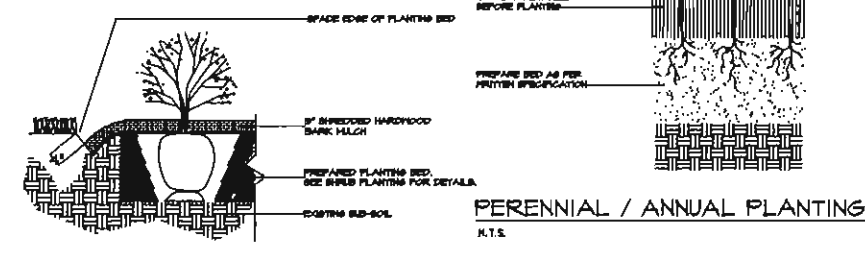
PLEASE NOTE: ALL PARKING LOT ISLANDS ARE TO BE MULCHED W/ A MINIMUM 3" DEPTH OF SHREDDED OAK BARK MULCH



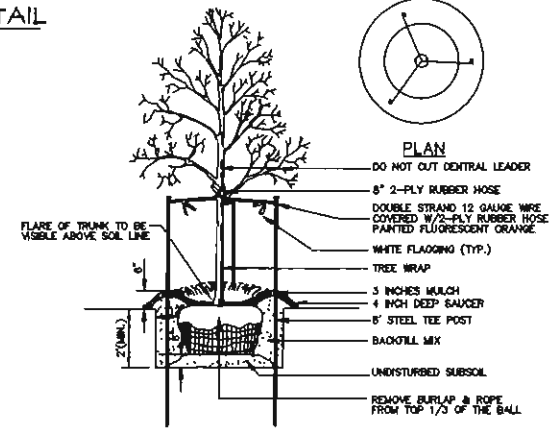
SHRUB PLANTING
N.T.S.



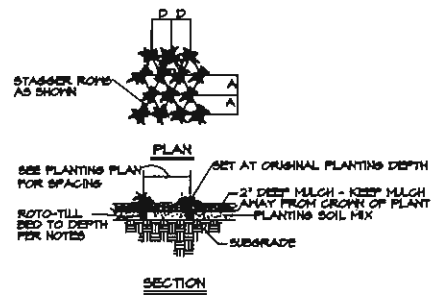
EVERGREEN TREE PLANTING
N.T.S.



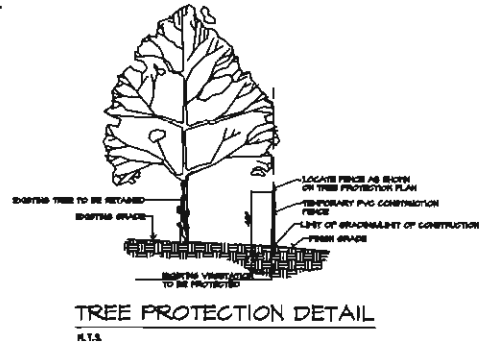
SPADE-CUT EDGE DETAIL
N.T.S.



DECIDUOUS TREE PLANTING
N.T.S.



FORB/GRASS PLANTING DETAIL
N.T.S.



TREE PROTECTION DETAIL
N.T.S.

REVISIONS	BY

landscape TECHNOLOGIES

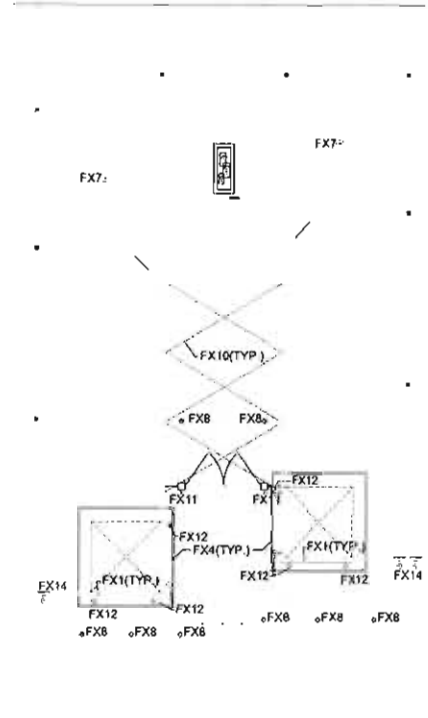
Landscape Architect

4111 Lindbergh Blvd., Suite 100
Chesterfield, MO 63005
Phone: (636) 437-1111
Fax: (636) 437-1112
www.landscape-technologies.com

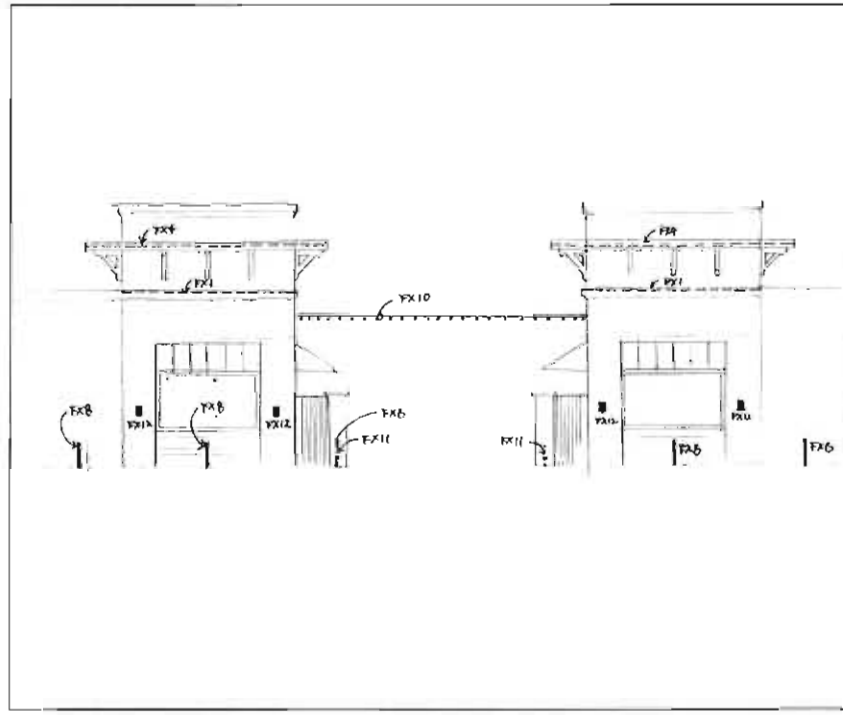
DETAILS, NOTES & SCHEDULE FOR THE PROPOSED
Chesterfield Outlets
CHESTERFIELD, MISSOURI

DATE	11/11/2011
CHECKED	RFH/JS
DATE	11/11/2011
SCALE	1"=50'-0"
DWG. NO.	2011-04
SHEET	1-6

OF SIX SHEETS



A ENLARGED PLAN
SCALE 1" = 20'-0"



B ELEVATION AT ENTRY
SCALE 1/8" = 1'-0"

SPECIFICATION SHEET

lumenfacode™
WHITE & SLATE COLORS

FEATURES & BENEFITS

- Phased
- Full Dimming
- Edge Incid

14" - 72" (3050)

lumenpulse™
LUMINA TECHNOLOGY LED LIGHTING SYSTEMS

C FX1

modaLIGHT™

AQUA FLEX™ 3000K

Description: The Aqua Flex LED Linear Light fixture is a high-quality, dimmable, and phaseable lighting solution for commercial and residential applications. It features a sleek, modern design and is available in various lengths and finishes.

Specifications:

Model	Length	Power	Output
FX4	48"	12W	1000lm
FX4	72"	18W	1500lm
FX4	96"	24W	2000lm

Accessories: Mounting brackets, end caps, and diffusers are available for purchase.

D FX4

SISTEMALUX

SPECIFICATION SHEET

MINICOLUMN OS-1/2" 98-4161-

DESCRIPTION: The Minicolumn OS-1/2" is a high-quality, dimmable, and phaseable lighting solution for commercial and residential applications. It features a sleek, modern design and is available in various lengths and finishes.

Specifications:

Model	Length	Power	Output
FX8	48"	12W	1000lm
FX8	72"	18W	1500lm
FX8	96"	24W	2000lm

Accessories: Mounting brackets, end caps, and diffusers are available for purchase.

E FX8

EL CAPITAN™

SPECIFICATION SHEET

DESCRIPTION: The El Capitan is a high-quality, dimmable, and phaseable lighting solution for commercial and residential applications. It features a sleek, modern design and is available in various lengths and finishes.

Specifications:

Model	Length	Power	Output
FX11	48"	12W	1000lm
FX11	72"	18W	1500lm
FX11	96"	24W	2000lm

Accessories: Mounting brackets, end caps, and diffusers are available for purchase.

F FX11

PLATES Collection - Recessed

DESCRIPTION: The Plates Collection is a high-quality, dimmable, and phaseable lighting solution for commercial and residential applications. It features a sleek, modern design and is available in various lengths and finishes.

Specifications:

Model	Length	Power	Output
FX12	48"	12W	1000lm
FX12	72"	18W	1500lm
FX12	96"	24W	2000lm

Accessories: Mounting brackets, end caps, and diffusers are available for purchase.

G FX12

DESIGN COLLECTIVE

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WWW.DESIGNCOLLECTIVE.COM

601 EAST PRATT STREET, SUITE 300
BALTIMORE, MARYLAND 21202
T: 410.685.6655 F: 410.539.6242

312 BLACKWELL STREET, SUITE 100
DURHAM, NORTH CAROLINA 27701
T: 919.381.9323 F: 919.381.9323

ISSUED FOR: DATE

City Submission	01-23-12

ldc
Lighting Design Collaborative

OWNER/DEVELOPER
T-O Ventures LLC

200 East Long Lake Road Suite 300
Bloomfield Hills, MI
48304-2324

PROJECT NAME
Chesterfield Outlets

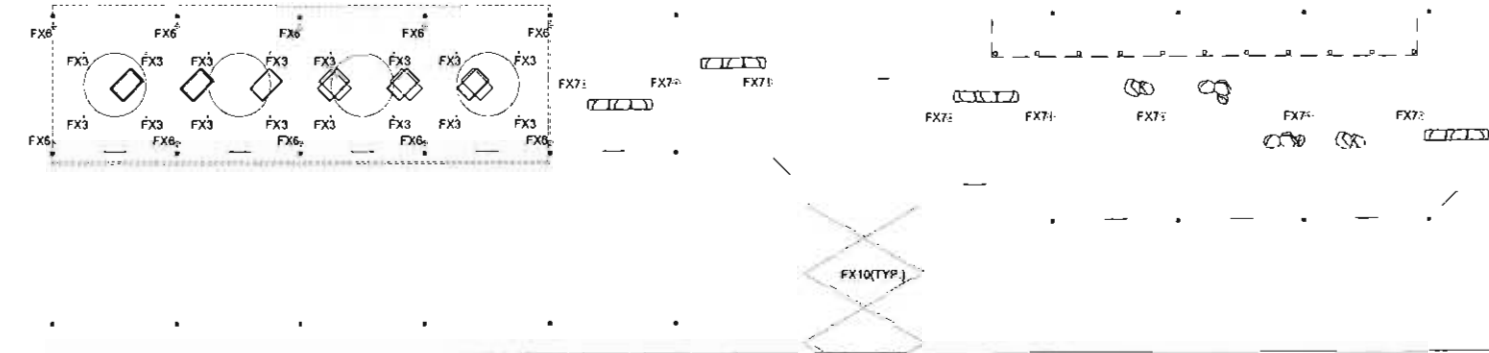
PROJECT ADDRESS
888 N Quaker 40
Chesterfield, MO 63005

PROJECT MANAGEMENT
DCI Project No. 647-11
Owner Project No.
Drawn By: Author Checked By: Checker

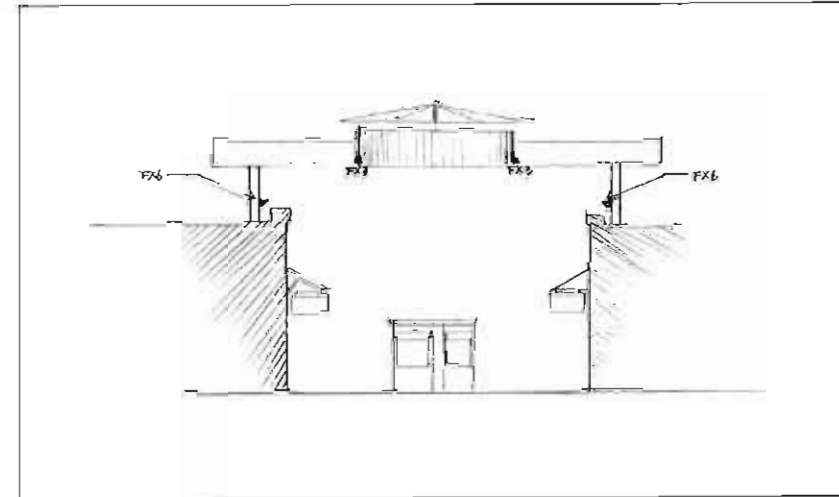
SHEET TITLE
Lighting at Typical Entries

SCALE

SHEET NUMBER
LT-02



A ENLARGED PLAN
SCALE: 1" = 20'-0"



B SECTION AT SKYLIGHT CANOPY
SCALE: 1/8" = 1'-0"

FEATURES

- 4" ATH Downlight
- 1/4" TS Downlight
- Details: Metal Halide Lamp

ORDERING INFORMATION

Part No.	Description	Material	Finish	Notes
FX3	4" ATH Downlight	Aluminum	White	

gotham

D FX3

US8

QUARTZ HALIDE (Q-HAL) METAL HALIDE (MH) COMPACT FLUORESCENT (CFL)

E FX6

Quadrolisk

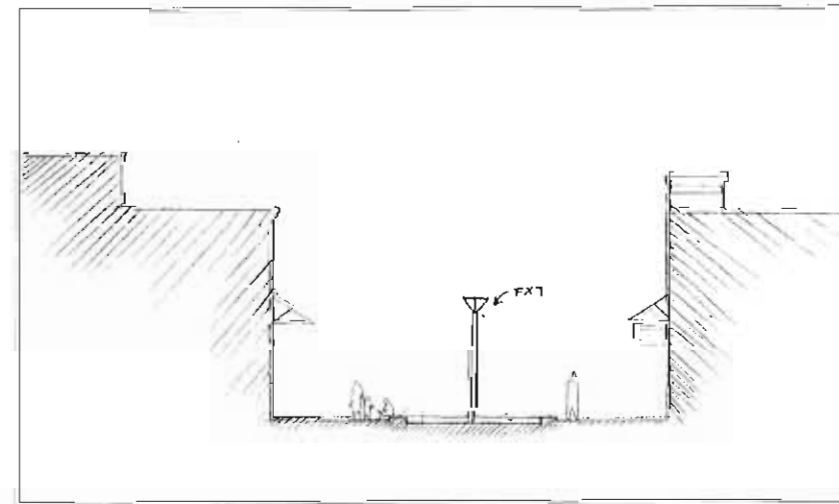
Project: _____ City: _____

Type: _____

Qty: _____

Series	Options	Height	Lighting	Radius	Voltage	Options
DL	1/4" TS	12"	1/4" TS	12"	120V	1/4" TS
DL	1/4" TS	18"	1/4" TS	18"	120V	1/4" TS
DL	1/4" TS	24"	1/4" TS	24"	120V	1/4" TS
DL	1/4" TS	30"	1/4" TS	30"	120V	1/4" TS
DL	1/4" TS	36"	1/4" TS	36"	120V	1/4" TS
DL	1/4" TS	42"	1/4" TS	42"	120V	1/4" TS
DL	1/4" TS	48"	1/4" TS	48"	120V	1/4" TS
DL	1/4" TS	54"	1/4" TS	54"	120V	1/4" TS
DL	1/4" TS	60"	1/4" TS	60"	120V	1/4" TS

F FX7



C SECTION AT PLANTER
SCALE: 1/8" = 1'-0"

ISSUED FOR	DATE
City Submission	01-23-12

CONSULTANT

ldc
Interior Design Collaborative

37 West Ave. Suite 300, New York, NY 10011 | P: 212.646.8540
1714 Avenue D, Suite 200, Philadelphia, PA 19122 | P: 215.626.2114
300 Pennsylvania Avenue, New York City, NY 10037 | P: 212.229.2900

OWNER/DEVELOPER
T-O Ventures LLC

200 East Long Lake Road Suite 300
Bloomfield Hills, MI
48304-2324

PROJECT NAME
Chesterfield Outlets

PROJECT ADDRESS
**#28 N Outer 40
Chesterfield, MD 63005**

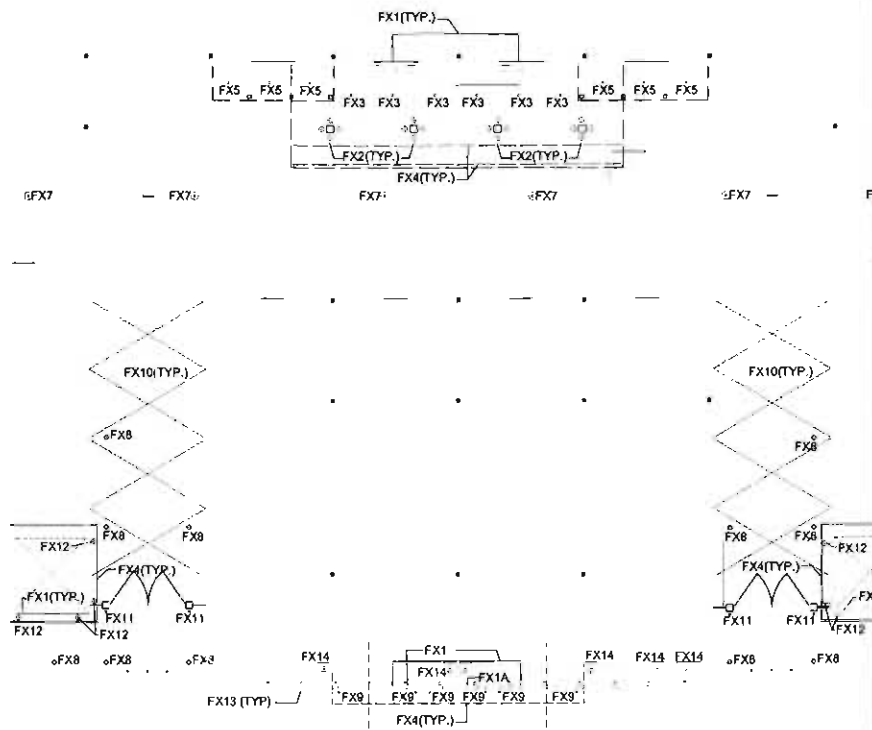
PROJECT MANAGEMENT
DCI Project No. 647-11
Owner Project No.
Drawn By: Author Checked By: Checker

SCALE

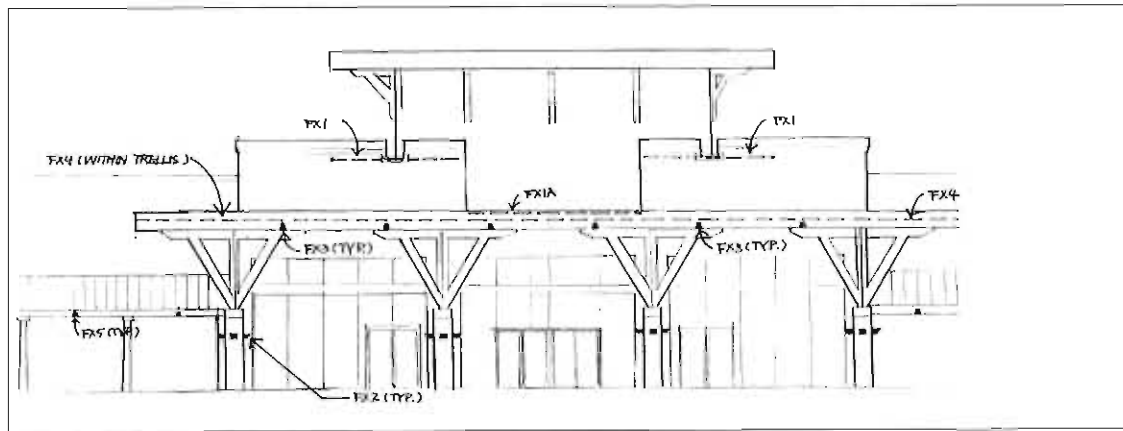
SHEET TITLE
**Lighting at
Typical Concourse**

SCALE

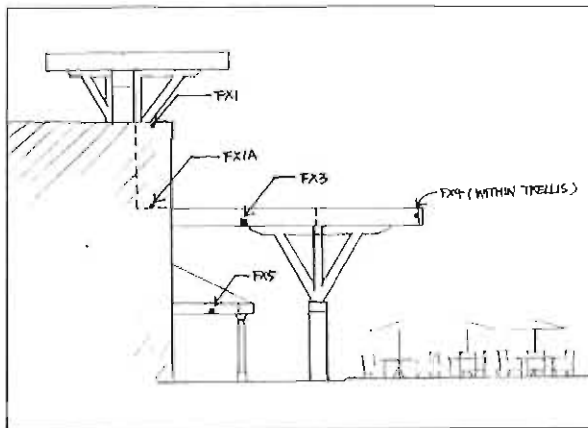
SHEET NUMBER
LT-03



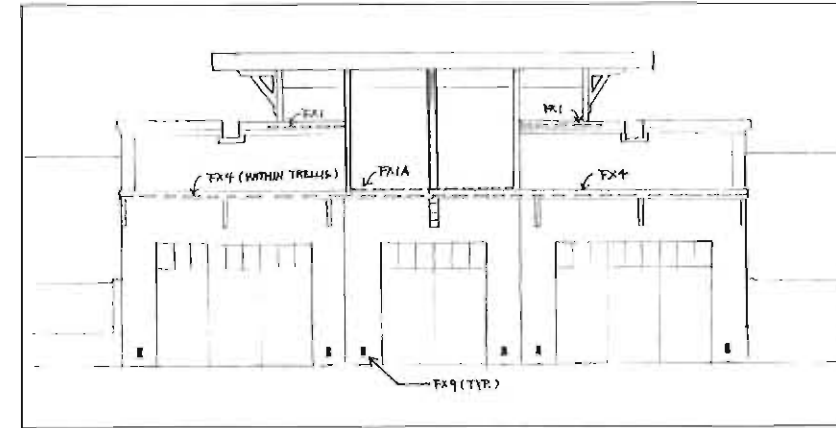
A ENLARGED PLAN
SCALE: 1" = 20'-0"



B ELEVATION AT FOOD COURT
SCALE: 1/8" = 1'-0"



C SECTION AT FOOD COURT
SCALE: 1/8" = 1'-0"



D ELEVATION AT MAIN ENTRY
SCALE: 1/8" = 1'-0"

SPECIFICATION SHEET

lumenfocade™
with a V-FIX COUPLER

FEATURES & BENEFITS

- 100% Recycled Aluminum
- 100% Recycled Glass
- 100% Recycled Steel
- 100% Recycled Plastic
- 100% Recycled Paper
- 100% Recycled Ink
- 100% Recycled Energy
- 100% Recycled Water
- 100% Recycled Air
- 100% Recycled Soil
- 100% Recycled Sun
- 100% Recycled Moon
- 100% Recycled Stars
- 100% Recycled Planets
- 100% Recycled Universe

Technical

lumenpulse
Sustainable Lighting Solutions

E FX1

VAS™
QUARTZ HALOGEN / CERAMIC METAL HALIDE / COMPACT FLUORESCENT

FEATURES & BENEFITS

- 100% Recycled Aluminum
- 100% Recycled Glass
- 100% Recycled Steel
- 100% Recycled Plastic
- 100% Recycled Paper
- 100% Recycled Ink
- 100% Recycled Energy
- 100% Recycled Water
- 100% Recycled Air
- 100% Recycled Soil
- 100% Recycled Sun
- 100% Recycled Moon
- 100% Recycled Stars
- 100% Recycled Planets
- 100% Recycled Universe

Technical

gotham™
ATH 4

F FX2

FEATURES

4" ATH
14/18 Downlight
Ceramic Metal Halide Lamp

ORDERING INFORMATION

Part No.	Part Description	Quantity	Unit Price	Total Price
ATH 4	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 5	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 6	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 7	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 8	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 9	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 10	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 11	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 12	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 13	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 14	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 15	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 16	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 17	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 18	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 19	4" ATH 14/18 Downlight	1	\$100.00	\$100.00
ATH 20	4" ATH 14/18 Downlight	1	\$100.00	\$100.00

gotham™
ATH 4

G FX3 / FX5

modaLIGHT™

AQUA FLEX™ 3000K

FEATURES & BENEFITS

- 100% Recycled Aluminum
- 100% Recycled Glass
- 100% Recycled Steel
- 100% Recycled Plastic
- 100% Recycled Paper
- 100% Recycled Ink
- 100% Recycled Energy
- 100% Recycled Water
- 100% Recycled Air
- 100% Recycled Soil
- 100% Recycled Sun
- 100% Recycled Moon
- 100% Recycled Stars
- 100% Recycled Planets
- 100% Recycled Universe

Technical

gotham™
ATH 4

H FX4

Yosemite Series™

FEATURES & BENEFITS

- 100% Recycled Aluminum
- 100% Recycled Glass
- 100% Recycled Steel
- 100% Recycled Plastic
- 100% Recycled Paper
- 100% Recycled Ink
- 100% Recycled Energy
- 100% Recycled Water
- 100% Recycled Air
- 100% Recycled Soil
- 100% Recycled Sun
- 100% Recycled Moon
- 100% Recycled Stars
- 100% Recycled Planets
- 100% Recycled Universe

Technical

gotham™
ATH 4

I FX9

DESIGN COLLECTIVE

ARCHITECTURE, PLANNING, INTERIORS
WWW.DESIGNCOLLECTIVE.COM

601 EAST PRATT STREET, SUITE 300
BALTIMORE, MARYLAND 21202
T: 410-685-6655 F: 410-539-6242

312 BLACKWELL STREET, SUITE 300
DURHAM, NORTH CAROLINA 27701
T: 919-381-9332 F: 919-381-9333

DESIGN COLLECTIVE, INC. ALL RIGHTS RESERVED
ISSUED FOR: City Submission DATE: 01-23-12

CONSULTANT: **ldc** Lighting Design Collaborative
27 West 34th Street, 5th Floor, New York, NY 10018 | P: 212 545 5540
1714 Ave. Street, Suite 300, Philadelphia, PA 19101 | P: 215 582 2114
300 Pennsylvania Avenue, 10th Floor, New York, NY 10014 | P: 212 545 5540

OWNER / DEVELOPER: T-O Ventures LLC
200 East Long Lake Road Suite 300
Bloomfield Hills, MI 48304-2324

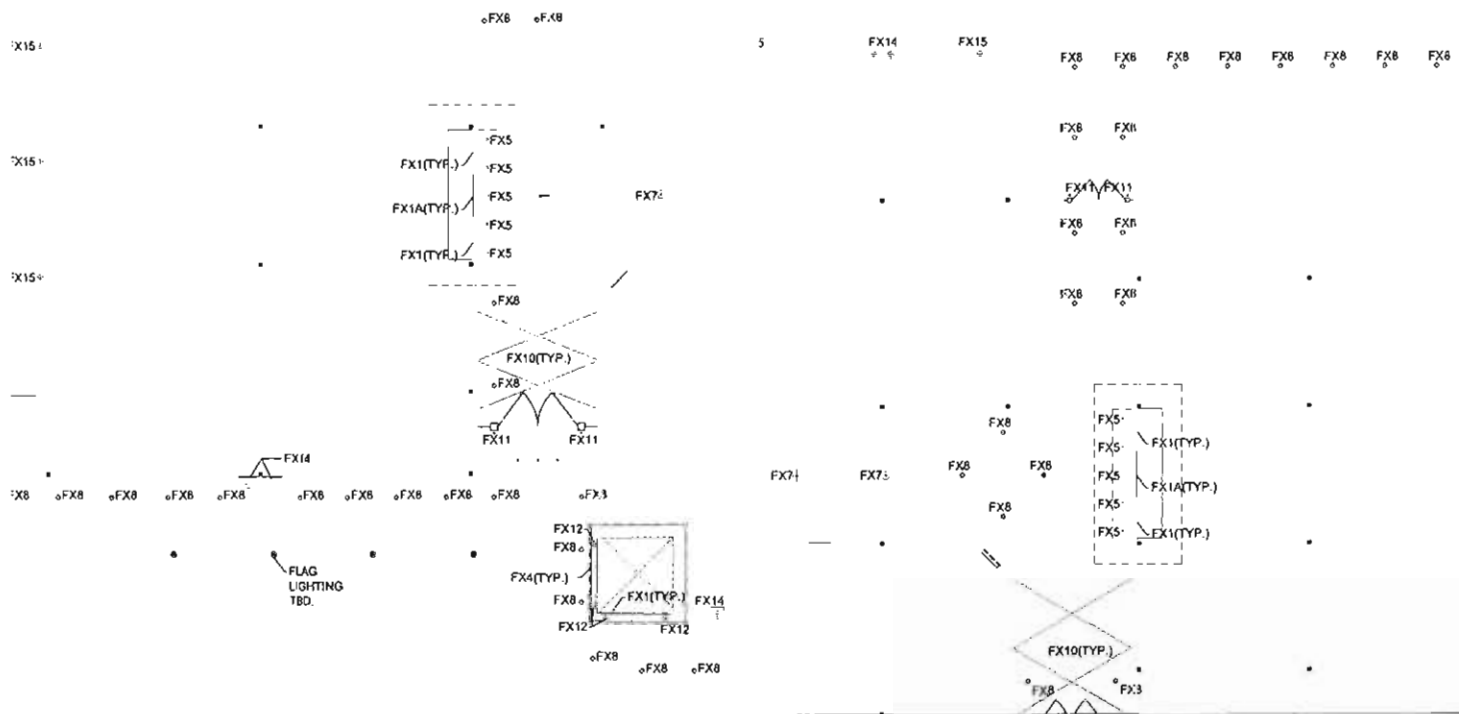
PROJECT NAME: Chesterfield Outlets
PROJECT ADDRESS: #27 N Outer 40
Chesterfield, MO 63005

DCI Project No. 647-11
Owner Project No.
Drawn By: Author Checked By: Checker

SCALE: 1/8" = 1'-0"

SHEET TITLE: Lighting at Central Area

SHEET NUMBER: LT-04



A ENLARGED PLAN
SCALE: 1" = 20'-0"

B ENLARGED PLAN
SCALE: 1" = 20'-0"

SPECIFICATION SHEET

lumenacode™
WAVE & STAR COOKIES

MANUALS & BENEFITS

lumenpulse™
LUMENPULSE™ AND LUMENPULSE™ LIGHTING SYSTEMS

C FX1

Quadrolisk

Project: _____ City: _____

Type: _____ Qty: _____

Series	Optics	Height	Lamping	High	Voltage	Options
QD1	MR 80° x 120° (10° Beam)	12" (10')	MR80° x 120° (10° Beam)	120	120V	CC, DM, DM2, DM3, DM4, DM5, DM6, DM7, DM8, DM9, DM10, DM11, DM12, DM13, DM14, DM15, DM16, DM17, DM18, DM19, DM20, DM21, DM22, DM23, DM24, DM25, DM26, DM27, DM28, DM29, DM30, DM31, DM32, DM33, DM34, DM35, DM36, DM37, DM38, DM39, DM40, DM41, DM42, DM43, DM44, DM45, DM46, DM47, DM48, DM49, DM50, DM51, DM52, DM53, DM54, DM55, DM56, DM57, DM58, DM59, DM60, DM61, DM62, DM63, DM64, DM65, DM66, DM67, DM68, DM69, DM70, DM71, DM72, DM73, DM74, DM75, DM76, DM77, DM78, DM79, DM80, DM81, DM82, DM83, DM84, DM85, DM86, DM87, DM88, DM89, DM90, DM91, DM92, DM93, DM94, DM95, DM96, DM97, DM98, DM99, DM100

D FX7

SISTEMALUX

SPECIFICATION SHEET

MINICOLUMN 05-1/2" POWERED HEAD A - 31-UP

LAMPING: 13.5 WATT METAL HALIDE
DT2 BASE

ELEVATION VIEW

SECTION VIEW

ACCESSORIES

SCREENING OF THE FIXTURES AVAILABLE ON REQUEST

VOLTAGE

METAL FINISH

MINICOLUMN 05-1/2" POWERED HEAD A - 31-UP

E FX8

FCW Series

External and Internal wall mount

Category Number

Series	Wattage	Mounting	Finish	Accessories
FCW100	100W	External	Black	DM1, DM2, DM3, DM4, DM5, DM6, DM7, DM8, DM9, DM10, DM11, DM12, DM13, DM14, DM15, DM16, DM17, DM18, DM19, DM20, DM21, DM22, DM23, DM24, DM25, DM26, DM27, DM28, DM29, DM30, DM31, DM32, DM33, DM34, DM35, DM36, DM37, DM38, DM39, DM40, DM41, DM42, DM43, DM44, DM45, DM46, DM47, DM48, DM49, DM50, DM51, DM52, DM53, DM54, DM55, DM56, DM57, DM58, DM59, DM60, DM61, DM62, DM63, DM64, DM65, DM66, DM67, DM68, DM69, DM70, DM71, DM72, DM73, DM74, DM75, DM76, DM77, DM78, DM79, DM80, DM81, DM82, DM83, DM84, DM85, DM86, DM87, DM88, DM89, DM90, DM91, DM92, DM93, DM94, DM95, DM96, DM97, DM98, DM99, DM100

Product Information

F FX16

DESIGN COLLECTIVE

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601 EAST PRATT STREET, SUITE 300
BALTIMORE, MARYLAND 21202
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312 BLACKWELL STREET, SUITE 10
DURHAM, NORTH CAROLINA 27701
T: 919.381.9322 F: 919.381.9323

DESIGN COLLECTIVE, INC. ALL RIGHTS RESERVED

ISSUED FOR	DATE
City Submission	01-23-12

CONSULTANT

lde
Landscape Design Enterprises

27 West 21st Street, Suite 307 New York, NY 10011 P: 212.684.8900
1715 North Central Expressway, Suite 200 Philadelphia, PA 19103 P: 717.262.7115
300 Philadelphia Avenue, Suite 1000 City of Philadelphia, PA 19106 P: 215.520.2800

OWNER / DEVELOPER

T-O Ventures LLC

200 East Long Lake Road Suite 300
Bloomfields Hills, MI
48304-7324

PROJECT NAME

Chesterfield Outlets

PROJECT ADDRESS

828 N Outer 40
Chesterfield, MO 63005

PROJECT MANAGER

DCI Project No. 647-11
Owner Project No. _____
Drawn By: Author Checked By: Checker

SHEET TITLE

**Lighting at
End Buildings**

SCALE

SHEET NUMBER

LT-05

SPECIFICATION SHEET

LDC
Chesterfield
Outlets
Proj.# 537.20
Issue Date: 1/23/12
FX1

Client
Project name
Order #
Type Qty.

FEATURES & BENEFITS

Physical :

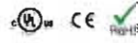
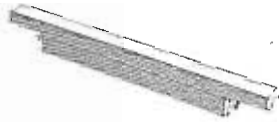
- Low copper content extruded aluminum housing
- Available in 1, 2, 3 or 4 sections
- Electrostatically applied polyester powder coat finish
- Machined aluminum end caps and silicone gaskets
- Stainless steel hardware
- Clear tempered glass
- 10" x 10", 10" x 60", 30" x 60" or 60" x 60" sizes
- IP66

Performance :

- Minimum 16 @ 135 lumens/foot
- RODR, 4' unit, 10" x 60" optic, 140 lumens/foot
- 3,203 delivered lumens and 18,277 colordeg/foot
- RODR, 4' unit, 10" x 60" optic, 140 lumens/foot
- lumens maintenance L70 @ 25°C, 120,000 hrs
- lumens maintenance comply with LM-79-08 standard
- Resolution per foot as per fixture data page 8)

Electrical :

- Low voltage luminaire for 120 to 277V
- Power and data in 1 cable (4165)
- Up to 42 feet with a single 277V power feed, 140' source
- 8.5W/ft (15.25W/ft HIC source)
- 0-10V, DMX or DALI dimming options



Wiring detail - non dimming

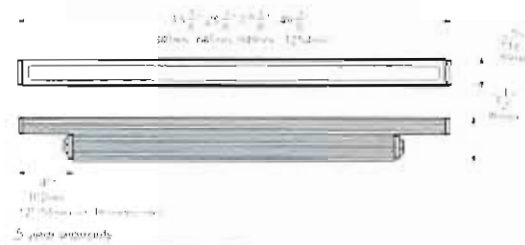


PIN ID	WIRE COLOR	USE
L	GREEN	GROUND
N	WHITE	NEUTRAL
1	BLACK	LIVE 120/277V

Wiring detail - dimming



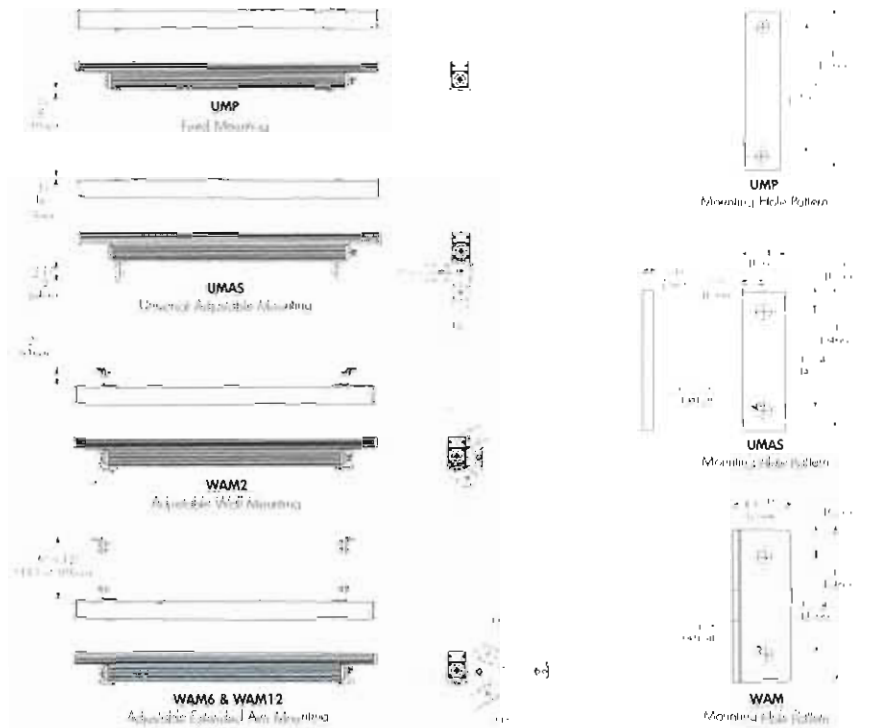
PIN ID	WIRE COLOR	USE
L	GREEN	GROUND
N	WHITE	NEUTRAL
1	BLACK	LIVE 120/277V
2	RED	0-10V / DATA
3	ORANGE	0-10V / DATA



SPECIFICATION SHEET

LDC
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Proj.# 537.20
Issue Date: 1/23/12
FX1

MOUNTING & ADJUSTABLE PIVOTS



SPECIFICATION SHEET

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Issue Date: 1/23/12
FX1

ACCESSORIES

Control Systems :

- LTO** Lumenpulse 1000W DMX 512 controller based
- LCU** Lumenpulse 1000W DMX 512 controller
- LID** Lumenpulse 1000W DMX 512 controller

CBOX :

- ICBOX - ___V-___** Dimmer DMX 512 dimming station
Data input and output, 0-20 pressure relief with plug
Voltage input and output, 0-20 pressure relief with plug
Up to 10 outputs for buttons, 0-20 pressure relief with plug
Please specify desired input voltage and loads
Refer to CBOX specification sheet for details

CBOX - ___V-___

- DMX 512 dimming station**
Data input and output, 0-20 pressure relief with plug
Voltage input and output, 0-20 pressure relief with plug
Up to 10 outputs for buttons, 0-20 pressure relief with plug
Please specify desired input voltage and loads
Refer to CBOX specification sheet for details

Leader Cable :

- LOGLC** Leader Cable for Lumenpulse cable (15 conductor cable)
Please add desired cable length: 5, 8, or 10 feet
- LOGLED** Leader Cable for dimming Lumenpulse cable (15 conductor cable)
Please add desired cable length: 5, 8, or 10 feet

Jumper Cable :

- LOGJC** Jumper Cable for Lumenpulse cable (15 conductor cable)
Please add desired cable length: 1, 2, 3, 4, or 5 feet
- LOGJCD** Jumper Cable for dimming Lumenpulse cable (15 conductor cable)
Please add desired cable length: 1, 2, 3, 4, or 5 feet

Sealing end cap :

- SECD** Sealing end cap with styrofoam terminal connector
(1) included with every leader cable

Radial louver :

- LOGRD** Radial louver for Lumenpulse cable
Please specify desired length: 1, 2, 3, 4, or 5 feet
Please specify desired finish: BRN - Matte black
or CC - Custom, please specify R/W color

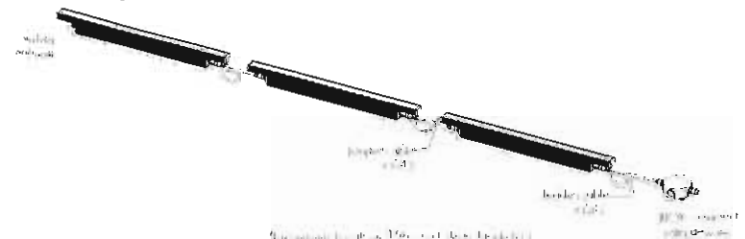


SPECIFICATION SHEET

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FX1

TYPICAL WIRING DIAGRAMS

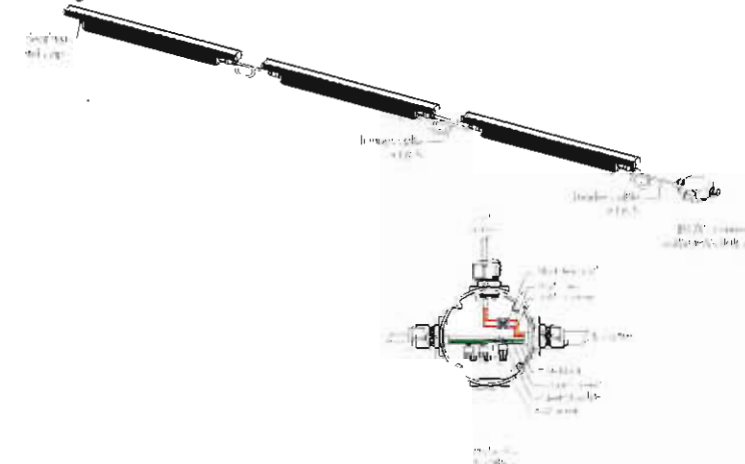
Non-Dimming Version



Leader Cable Length	120V	240V	277V
10ft leader cable	4.7m	14.93'	11.28'
50ft leader cable	15.24m	49.34'	36.88'

Leader Cable Length	120V	240V	277V
10ft leader cable	1.52m	4.57m	3.41m
50ft leader cable	45.72m	139.3m	104.27m

Dimming Version (0-10V)



SPECIFICATION SHEET

HOW TO ORDER

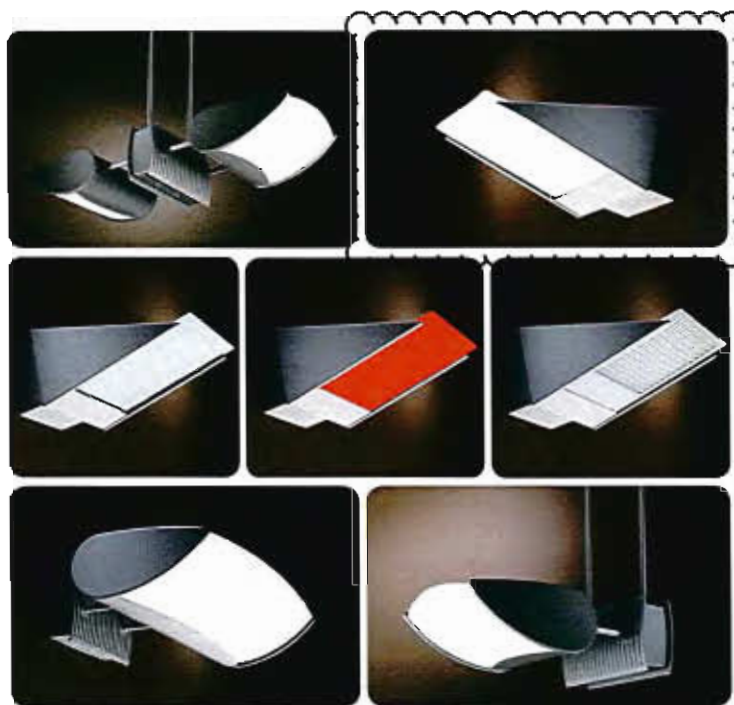
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Issue Date: 1/23/12

FX1

LOG	Housing	Voltage	Length	Colors and color temperatures	Optic	Mounting	Finish	Dimming	Option	
1	2	3	4	5	6	7	8	9		
1	Housing : LOG RO - Remotable remote output, 8.5W/9 LOG HO - Remotable high output, 15.25W/9	Voltage : 120 - 120 volts 208 - 208 volts 240 - 240 volts 277 - 277 volts	Length : 12 - 1.2 3/8 inches (34.0mm) (2 1/2 1/4 5 lbs) 24 - 2.5 3/8 inches (64.5mm) (1 1/2 1/2 7 lbs) 36 - 3.7 3/8 inches (94.9mm) (4.75 1/2 10 1/2 lbs) 48 - 4.9 3/8 inches (125.4mm) (6.85 1/2 14 lbs)	Colors and Color temperatures : 27K - 2700K 30K - 3000K 40K - 4000K RD - Red GR - Green BL - Blue		Mounting : UMP - Fixed Mounting UMAS - Universal Adjustable Mounting WAM2 - Adjustable Wall Mounting 2" WAM6 - Adjustable Extended Arm Mounting 6" WAM12 - Adjustable Extended Arm Mounting 12"	Finish : SI - Silver Sandblast BK - Black Sandblast WH - White CC - Custom (Please specify RAL color)	Dimming : DIM - 0-10V Triac dimming option, resolution per foot DMX 1FT - DMX Dimming option, resolution per foot DMX 1FX - DMX Dimming option, resolution per fixture DALI - DALI Dimming option NO - No Dimming	Option : ETE - End-to-end configuration, no jumper cable needed	
4	Optics : 10x10 - 10 x 10 10x60 - 10 x 60 30x60 - 30 x 60 60x60 - 60 x 60									

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FX2



VAS ORDERING INFORMATION

VAS QUARTZ HALOGEN / CERAMIC METAL HALIDE / COMPACT FLUORESCENT

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Outlets
Proj.# 537.20
Issue Date: 1/23/12

FX2

1. PREFIX (LAMP TYPE) - MEDIUM VAS	1. PREFIX (LAMP TYPE) - LARGE VAS
MEDIUM CURVE VCM501 (1)-Q250 Maximum (T4, Min-Cin) VCM517 (1)-39W CMH (T6, G12, ANSIF M130) VCM522 (1)-70W CMH (T6, G12, ANSIF M139) VCM527 (1)-100W CMH (T6, G12, ANSIF M142) VCM574 (1)-CF320T1, CF320T2, CF42T1 (PL-1, GX24q-4) VCM583 (1)-F40W LTT (2G11) VCM585 (1)-F50W LTT (2G11) VCM587 (1)-F55W LTT (2G11) VCM589 (1)-F80W LTT (2G11) VCM593 (2)-F40W LTT (2G11) VCM595 (2)-F50W LTT (2G11) VCM597 (2)-F55W LTT (2G11)	LARGE CURVE VCL969 (1)-250 CMH (T15, Mog, ANSIF M160/S60) VCL970 (1)-400 CMH (ED18, Mog, ANSIF M160/S61) VCL971 (1)-210 CMH (T9, PG218, ANSIF M183) VCL973 (1)-315 CMH (T9, PG218, ANSIF M182) VCL971/VCL973 available in 200V, 240V & 277V only VCL971/VCL973 not available with the WCB mounting option
MEDIUM VECTOR VVM501 (1)-Q250 Maximum (T4, Min-Cin) VVM517 (1)-39W CMH (T6, G12, ANSIF M130) VVM522 (1)-70W CMH (T6, G12, ANSIF M139) VVM527 (1)-100W CMH (T6, G12, ANSIF M142) VVM574 (1)-CF320T1, CF320T2, CF42T1 (PL-1, GX24q-4) VVM583 (1)-F40W LTT (2G11) VVM585 (1)-F50W LTT (2G11) VVM587 (1)-F55W LTT (2G11) VVM589 (1)-F80W LTT (2G11) VVM593 (2)-F40W LTT (2G11) VVM595 (2)-F50W LTT (2G11) VVM597 (2)-F55W LTT (2G11)	LARGE VECTOR VVL969 (1)-250 CMH (T15, Mog, ANSIF M160/S60) VVL970 (1)-400 CMH (ED18, Mog, ANSIF M160/S61) VVL971 (1)-210 CMH (T9, PG218, ANSIF M183) VVL973 (1)-315 CMH (T9, PG218, ANSIF M182) VVL971/VVL973 available in 200V, 240V & 277V only VVL971/VVL973 not available with the WCB mounting option
2. MOUNTING OPTIONS - MEDIUM VAS WCB Wall Mount - Integral Fluorescent Ballast EXB Extended Arm Mount - Integral Fluorescent Ballast O2B-X Pendant Mount - Integral Fluorescent Ballast Twin Fixture Cluster - Integral Fluorescent Ballast RCB Wall Mount - Remote CMH Ballast EXA Extended Arm Mount - Remote CMH Ballast EXB Extended Arm Mount - Integral CMH Ballast O2A-X Pendant Mount - Remote CMH Ballast O2B-X Pendant Mount - Integral CMH Ballast Z2A-X Twin Fixture Cluster - Remote CMH Ballast Z2B-X Twin Fixture Cluster - Integral CMH Ballast X = Pendant Length	2. MOUNTING OPTIONS - LARGE VAS RCB Wall Mount - Remote CMH Ballast WCB Wall Mount - Integral CMH Ballast EXA Extended Arm Mount - Remote CMH Ballast O2A-X Pendant Mount - Remote CMH Ballast Z2A-X Twin Fixture Cluster - Remote CMH Ballast X = Pendant Length
3. VOLTAGE - MEDIUM VAS 1 120V 2 277V 3 208V 4 240V 7 347V (Contact Factory)	3. VOLTAGE - LARGE VAS 1 120V 2 277V 3 208V 4 240V 7 347V (Contact Factory)
4. FINISH W Semi-Gloss White BL Semi-Gloss Black BR Semi-Gloss Bronze N Semi-Gloss Natural S Semi-Gloss Satin (Trivalent Satin is not available) SP Specify Finish (Contact Factory) CC Custom Color (Contact Factory) For Textured Finish, add 'T' as a prefix to the above	5. OPTIONS PG Custom Patterned Glass Fascia (Contact Factory) WG Waffled Glass Fascia CEG Colored Etched Glass Fascia (Contact Factory) CWG Colored Waffled Glass Fascia (Contact Factory) PP Perforated Metal Fascia LP Custom Fascia Template SP Solid Aluminum Fascia DM Column Mount for WCB & RCB mount (Contact Factory) Dimming Ballast for Fluorescent luminaires (Contact Factory)

VAS QUARTZ HALOGEN / CERAMIC METAL HALIDE / COMPACT FLUORESCENT

LDC
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Proj.# 537.20
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FX2

RCB & WCB - WALL MOUNT	EXA & EXB - EXTENDED ARM MOUNT	O2A & O2B - PENDANT MOUNT	Z2A & Z2B - TWIN FIXTURE CLUSTER
CURVE VCM 501 11-5/8" 4-1/2" 9-3/4" VCM 517-522 11-5/8" 4-1/2" 9-3/4" VCM 574 11-5/8" 4-1/2" 9-3/4" VCM 583-597 11-5/8" 4-1/2" 24-3/4" LARGE CURVE VCL 969 & 970 17-00" 6-5/8" 14-3/4" VCL 971 & 973 17-00" 6-5/8" 14-3/4" VCL 971 & 973 available with RCB mounting only	CURVE VCL 969 & 970 17-00" 6-5/8" 14-3/4" VCL 971 & 973 17-00" 6-5/8" 14-3/4" VCL 971 & 973 available with RCB mounting only	CURVE VCL 969 & 970 17-00" 6-5/8" 14-3/4" VCL 971 & 973 17-00" 6-5/8" 14-3/4" VCL 971 & 973 available with RCB mounting only	CURVE VCL 969 & 970 17-00" 6-5/8" 14-3/4" VCL 971 & 973 17-00" 6-5/8" 14-3/4" VCL 971 & 973 available with RCB mounting only
VECTOR VVM 501 13-00" 5-1/2" 9-3/4" VVM 517-522 13-00" 5-1/2" 9-3/4" VVM 574 13-00" 5-1/2" 9-3/4" VVM 583-597 13-00" 5-1/2" 24-3/4" LARGE VECTOR VVL 969 & 970 19-00" 8-00" 14-3/4" VVL 971 & 973 19-00" 8-00" 14-3/4" VVL 971 & 973 available with RCB mounting only	VECTOR VVL 969 & 970 19-00" 8-00" 14-3/4" VVL 971 & 973 19-00" 8-00" 14-3/4" VVL 971 & 973 available with RCB mounting only	VECTOR VVL 969 & 970 19-00" 8-00" 14-3/4" VVL 971 & 973 19-00" 8-00" 14-3/4" VVL 971 & 973 available with RCB mounting only	VECTOR VVL 969 & 970 19-00" 8-00" 14-3/4" VVL 971 & 973 19-00" 8-00" 14-3/4" VVL 971 & 973 available with RCB mounting only
MEDIUM CURVE VCM 501 11-5/8" 4-1/2" 9-3/4" VCM 517-522 11-5/8" 4-1/2" 9-3/4" VCM 574 11-5/8" 4-1/2" 9-3/4" VCM 583-597 11-5/8" 4-1/2" 24-3/4" LARGE CURVE VCL 969 & 970 17-00" 6-5/8" 14-3/4" VCL 971 & 973 17-00" 6-5/8" 14-3/4"	MEDIUM CURVE VCM 501 11-5/8" 4-1/2" 9-3/4" VCM 517-522 11-5/8" 4-1/2" 9-3/4" VCM 574 11-5/8" 4-1/2" 9-3/4" VCM 583-597 11-5/8" 4-1/2" 24-3/4" LARGE CURVE VCL 969 & 970 17-00" 6-5/8" 14-3/4" VCL 971 & 973 17-00" 6-5/8" 14-3/4"	MEDIUM CURVE VCM 501 11-5/8" 4-1/2" 9-3/4" VCM 517-522 11-5/8" 4-1/2" 9-3/4" VCM 574 11-5/8" 4-1/2" 9-3/4" VCM 583-597 11-5/8" 4-1/2" 24-3/4" LARGE CURVE VCL 969 & 970 17-00" 6-5/8" 14-3/4" VCL 971 & 973 17-00" 6-5/8" 14-3/4"	MEDIUM CURVE VCM 501 11-5/8" 4-1/2" 9-3/4" VCM 517-522 11-5/8" 4-1/2" 9-3/4" VCM 574 11-5/8" 4-1/2" 9-3/4" VCM 583-597 11-5/8" 4-1/2" 24-3/4" LARGE CURVE VCL 969 & 970 17-00" 6-5/8" 14-3/4" VCL 971 & 973 17-00" 6-5/8" 14-3/4"
MEDIUM VECTOR VVM 501 13-00" 5-1/2" 9-3/4" VVM 517-522 13-00" 5-1/2" 9-3/4" VVM 574 13-00" 5-1/2" 9-3/4" VVM 583-597 13-00" 5-1/2" 24-3/4" LARGE VECTOR VVL 969 & 970 19-00" 8-00" 14-3/4" VVL 971 & 973 19-00" 8-00" 14-3/4"	MEDIUM VECTOR VVM 501 13-00" 5-1/2" 9-3/4" VVM 517-522 13-00" 5-1/2" 9-3/4" VVM 574 13-00" 5-1/2" 9-3/4" VVM 583-597 13-00" 5-1/2" 24-3/4" LARGE VECTOR VVL 969 & 970 19-00" 8-00" 14-3/4" VVL 971 & 973 19-00" 8-00" 14-3/4"	MEDIUM VECTOR VVM 501 13-00" 5-1/2" 9-3/4" VVM 517-522 13-00" 5-1/2" 9-3/4" VVM 574 13-00" 5-1/2" 9-3/4" VVM 583-597 13-00" 5-1/2" 24-3/4" LARGE VECTOR VVL 969 & 970 19-00" 8-00" 14-3/4" VVL 971 & 973 19-00" 8-00" 14-3/4"	MEDIUM VECTOR VVM 501 13-00" 5-1/2" 9-3/4" VVM 517-522 13-00" 5-1/2" 9-3/4" VVM 574 13-00" 5-1/2" 9-3/4" VVM 583-597 13-00" 5-1/2" 24-3/4" LARGE VECTOR VVL 969 & 970 19-00" 8-00" 14-3/4" VVL 971 & 973 19-00" 8-00" 14-3/4"

VAS MOUNTING & DIMENSIONS

VAS[®]
QUARTZ HALOGEN / CERAMIC METAL HALIDE / COMPACT FLUORESCENT
RCB & WCB - WALL MOUNT

LDC
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Proj.# 537.20
Issue Date: 1/23/12
FX6

CURVE	DIM B	RCB / WCB Dimensions			VECTOR	DIM B	RCB / WCB Dimensions			
		A'	B'	C'			A'	B'	C'	
MEDIUM CURVE	DIM B	VCM 501	11-5/8"	4-1/2"	9-3/4"	DIM B	VVM 501	13-00"	5-1/2"	9-3/4"
		VCM 517-522	11-5/8"	4-1/2"	9-3/4"		VVM 517-522	13-00"	5-1/2"	9-3/4"
		VCM 574	11-5/8"	4-1/2"	9-3/4"		VVM 574	13-00"	5-1/2"	9-3/4"
		VCM 583-597	11-5/8"	4-1/2"	24-3/4"		VVM 583-597	13-00"	5-1/2"	24-3/4"
LARGE CURVE	DIM B	VCL 969 & 970	17-00"	6-5/8"	14-3/4"	DIM B	VVL 969 & 970	19-00"	8-00"	14-3/4"
		VCL 971 & 973	17-00"	6-5/8"	14-3/4"		VVL 971 & 973	19-00"	8-00"	14-3/4"
		VCL 971 & 973	17-00"	6-5/8"	14-3/4"		VVL 971 & 973	19-00"	8-00"	14-3/4"
		VCL 971 & 973	17-00"	6-5/8"	14-3/4"		VVL 971 & 973	19-00"	8-00"	14-3/4"

EKA & EXB - EXTENDED ARM MOUNT

CURVE	DIM B	EKA / EXB Dimensions			VECTOR	DIM B	EKA / EXB Dimensions			
		A'	B'	C'			A'	B'	C'	
MEDIUM CURVE	DIM B	VCM 501	15-3/8"	4-1/2"	9-3/4"	DIM B	VVM 501	15-3/8"	5-1/2"	9-3/4"
		VCM 517-522	15-3/8"	4-1/2"	9-3/4"		VVM 517-522	15-3/8"	5-1/2"	9-3/4"
		VCM 574	15-3/8"	4-1/2"	9-3/4"		VVM 574	15-3/8"	5-1/2"	9-3/4"
		VCM 583-597	15-3/8"	4-1/2"	24-3/4"		VVM 583-597	15-3/8"	5-1/2"	24-3/4"
LARGE CURVE	DIM B	VCL 969 & 970	19-3/4"	6-5/8"	14-3/4"	DIM B	VVL 969 & 970	22-3/4"	8-00"	14-3/4"
		VCL 971 & 973	19-3/4"	6-5/8"	14-3/4"		VVL 971 & 973	22-3/4"	8-00"	14-3/4"
		VCL 971 & 973	19-3/4"	6-5/8"	14-3/4"		VVL 971 & 973	22-3/4"	8-00"	14-3/4"
		VCL 971 & 973	19-3/4"	6-5/8"	14-3/4"		VVL 971 & 973	22-3/4"	8-00"	14-3/4"

O2A & O2B - PENDANT MOUNT

CURVE	DIM B	O2A / O2B Dimensions			VECTOR	DIM B	O2A / O2B Dimensions			
		A'	B'	C'			A'	B'	C'	
MEDIUM CURVE	DIM B	VCM 501	15-5/8"	4-1/2"	9-3/4"	DIM B	VVM 501	17-1/4"	5-1/2"	9-3/4"
		VCM 517-522	15-5/8"	4-1/2"	9-3/4"		VVM 517-522	17-1/4"	5-1/2"	9-3/4"
		VCM 574	15-5/8"	4-1/2"	9-3/4"		VVM 574	17-1/4"	5-1/2"	9-3/4"
		VCM 583-597	15-5/8"	4-1/2"	24-3/4"		VVM 583-597	17-1/4"	5-1/2"	24-3/4"
LARGE CURVE	DIM B	VCL 969 & 970	19-3/4"	6-5/8"	14-3/4"	DIM B	VVL 969 & 970	23-1/4"	8-00"	14-3/4"
		VCL 971 & 973	19-3/4"	6-5/8"	14-3/4"		VVL 971 & 973	23-1/4"	8-00"	14-3/4"
		VCL 971 & 973	19-3/4"	6-5/8"	14-3/4"		VVL 971 & 973	23-1/4"	8-00"	14-3/4"
		VCL 971 & 973	19-3/4"	6-5/8"	14-3/4"		VVL 971 & 973	23-1/4"	8-00"	14-3/4"

22A & 22B - TWIN FIXTURE CLUSTER

CURVE	DIM B	22A / 22B Dimensions			VECTOR	DIM B	22A / 22B Dimensions			
		A'	B'	C'			A'	B'	C'	
MEDIUM CURVE	DIM B	VCM 501	28-3/4"	4-1/2"	9-3/4"	DIM B	VVM 501	31-3/8"	5-1/2"	9-3/4"
		VCM 517-522	28-3/4"	4-1/2"	9-3/4"		VVM 517-522	31-3/8"	5-1/2"	9-3/4"
		VCM 574	28-3/4"	4-1/2"	9-3/4"		VVM 574	31-3/8"	5-1/2"	9-3/4"
		VCM 583-597	28-3/4"	4-1/2"	24-3/4"		VVM 583-597	31-3/8"	5-1/2"	24-3/4"
LARGE CURVE	DIM B	VCL 969 & 970	38-00"	6-5/8"	14-3/4"	DIM B	VVL 969 & 970	43-1/2"	8-00"	14-3/4"
		VCL 971 & 973	38-00"	6-5/8"	14-3/4"		VVL 971 & 973	43-1/2"	8-00"	14-3/4"
		VCL 971 & 973	38-00"	6-5/8"	14-3/4"		VVL 971 & 973	43-1/2"	8-00"	14-3/4"
		VCL 971 & 973	38-00"	6-5/8"	14-3/4"		VVL 971 & 973	43-1/2"	8-00"	14-3/4"

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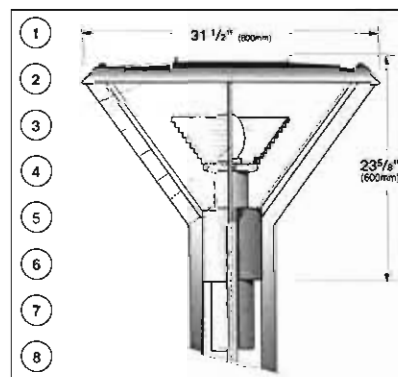
Quadrolisk

LDC
Chesterfield
Outlets
Proj.# 537.20
Issue Date: 1/23/12
FX7



Project: _____
Type: _____ Qty: _____
QDL Series Optics Height Lamping Finish Voltage

Series	Optics	Height	Lamping	Finish	Voltage	Options
QDL Quadrolisk	MA Type III MTR 135° Refractor	12 12 feet	T5 Metal Halide	WH White	120	H5 ¹ House Side Shield (180°)
	MS Type V MTR 135° Refractor	14 14 feet	H039T6 ² 35wT6	BK Black	208	F5 ³ Single Fusing
	SP Type V Silver Louver		H050 ⁴ 30w	BZ Bronze	240	REC GFCI Receptacle
	WP Type V White Louver		H070 ⁵ 70w	SV Silver	277	PC Photocell
	MR Type V MTR 180 Refractor		H100 100w	SP Specify Premium Color	347	BC3 Optional Base Cover
	M3 Type IV MTR 180 Refractor		H110 110w			
	MS Type V MTR 180 Refractor		H150 ^{6A} 150w			
	MC Type V MTR 180 Cone Refractor					



1. Fixture Cover - Formed aluminum cover with white painted interior for maximum reflectivity. Removes by loosening four captive stainless steel screws for easy access to lamp chamber.
2. Gasketing - Continuous molded neoprene gasket provides weatherproofing, dust, and insect control for all fixture connections.
3. Frame Ring - Formed aluminum ring with fixture cover screw retaining hardware. Ring attaches to fixture frame arms.
4. Fixture Frame/Pole - Four formed steel arms with round steel connecting rings form lattice style assembly.
5. Globe - Vacuum-formed, one piece clear U.V. stabilized polycarbonate.
6. Optics - Select Type III or Type V MTR 135 refractor, high pressure die-cast aluminum Type V silver or white louvers, or Type IV or Type V MTR Refractor. Formed aluminum House-Side Shield available for all Type V Refractors except MC. Chip-on prisms create Type III distribution for MA optics.
7. Lamp - Select one coated, base down, medium base ED-17 metal halide, high pressure sodium, or one G12 base T6 metal halide, up to 150w.
8. Electrobloc - Pulse rated porcelain, medium base socket is mounted to die-cast aluminum

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TEL (845) 891-7723
FAX (845) 891-6749
www.selux.com/USA
QDL-1011-01 (8/14)

MRL Listed (L.E. UL, CSA)
Since Made in USA with 100% Local Job

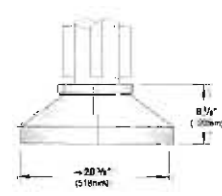
In a continuing effort to offer the best product possible, we reserve the right to change without notice, specifications or materials that in our opinion will not affect the function of the product. Specification sheets found at www.selux.com/usa are the most recent versions and supersede all other printed or electronic versions.

Quadrolisk

Mounting Details

Quadrolisk utilizes the same inverted cone pole top fixture as the Quadro 1, however, the integral, lattice construction of the pole provides a unique elegance to prestigious pedestrian areas, shopping malls, and commercial zones.

BC9 Optional Base Cover
Die-cast aluminum, two-piece field installable base cover.



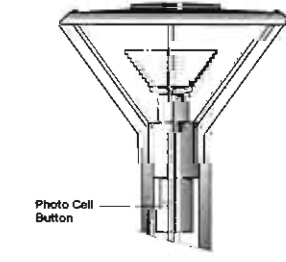
LDC
Chesterfield
Outlets
Proj.# 537.20
Issue Date: 1/23/12
FX7

Latent (10mm) thick steel plate, supplied with anchor bolts and template.
Stub conduit 6" (53mm) above footing.
Finished Floor (by others)
Height
3 1/2" (90mm) x 15 1/4" (400mm) access hole
Suggested anchor bolt projection 2" (50mm). Galvanized steel anchor bolts 3/4" x 15" (19mm x 381mm). Concrete footing to be designed and installed by others.
Pole/Fixture allow for 100mph with 1.3 gust factor

Optional Accessories

Photo Cell (PC) - Button type photo cell mounted in pole as shown.

GFCI Receptacle (REC) - GFCI duplex receptacle with cast base welded to pole and gasketed, provided with weather-proof, self-closing cover, located 30" (762mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.



SISTEMALUX

SPECIFICATIONS

LDC
Chesterfield
Outlets
Proj.# 537.20
Issue Date: 1/23/12
FX8

MINICOLUMN Ø5-1/2" #S.4161-
POINTED HEAD h = 31-1/2"
MINICOLUMN is a free-standing bollard fixture. An extruded aluminum body supports a die-cast optical assembly with a polycarbonate diffuser. The powder-paint finish ensures a high corrosion resistance.

LAMPING: 1 X 35W T6 METAL HALIDE, G12 BASE
PROJECT NAME: _____
TYPE: _____
LAST UPDATE: FEBRUARY 2009



- DIE-CAST ALUMINUM HOUSING POWDER PAINTED FOR HIGH CORROSION RESISTANCE
- 1 X 35W T6 METAL HALIDE (NOT INCLUDED)
- 45° GRILL FOR PRECISE LIGHT DIRECTION
- DOUBLE CABLE ENTRY W/ POWER CORD
- EXTRUDED ALUMINUM CYLINDRICAL BODY
- VANDAL RESISTANT STAINLESS STEEL ALLEN HEAD SCREWS



- POLYCARBONATE VANDAL RESISTANT LENS W/SILICONE GASKET
- STEPPED REFLECTOR/BAFFLE FOR OPTIMUM LIGHT OUTPUT
- ELECTRONIC BALLAST FOR (1) 35W METAL HALIDE
- MOUNTING FLANGE (S.4172) TO BE ORDERED SEPARATELY
- CONCRETE

ACCESSORIES (NOT INCLUDED IN THE FIXTURE PRICE BE SURE TO ORDER IF NECESSARY)

S.4172 - FLANGE AND STAINLESS STEEL SCREWS (TO BE ANCHORED IN CONCRETE)

SCREENING OF 1 OR 2 WINDOWS AVAILABLE ON REQUEST

VOLTAGE: 120V 277V

METAL FINISH: 09 - BLACK 14 - ALUMINUM GREY

MINICOLUMN Ø5-1/2" POINTED HEAD h = 31-1/2"

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QDL-1011-05

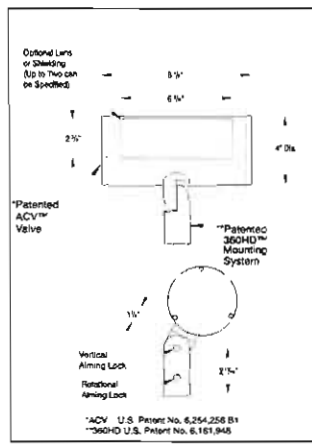
In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not affect the function of the product. Specification sheets found at www.selux.com/usa are the most recent versions and supersede all other printed or electronic versions.

Yosemite Series™



The Yosemite Series™ is designed for use with the Master Color™ and other T6 metal halide lamps in wattages of 35W and 70W. The metal halide lamp provides long life, high efficiency and outstanding color performance. The Yosemite Series features our exclusive 'interchangeable optics modules' to create dynamic lighting effects with spot, flood or wall wash reflectors. The Yosemite Series offers seven ballast options in two voltages (120 and 277) and three cutoff accessories to fulfill the majority of lighting tasks. It incorporates the Patented ACV Valve™ System to resist internal condensation corrosion and the Patented 360HD™ Mounting System with our exclusive 'aim-and-lock technology'.

- Features**
- Tamper proof design.
 - Completely sealed optical compartment.
 - Clear, tempered glass lens, factory sealed.
 - Machined aluminum construction with stainless steel hardware.
 - ACV™ (Pat. Pend.) Valve System. See page 108.
 - Interchangeable optics modules.
 - 360HD™ (Pat. Pend.) Mounting System allows vertical to horizontal and rotational aiming with positive aim and lock technology.
 - provides integral wireway. See page 33.
 - G12 base, 5KV plus rated lamp holder with 180°C 18ga. wire holder.
 - 3 A, 250V. Listed with 35W and 70W T6 metal halide lamps.
 - For use with 35W or 70W, 120V or 277V metal halide ballast.



CATALOG NUMBER LOGIC

Example: **YO - WW - 81 - SAP - 10 - 11 - CV - RM35-120**

Series
YO - Yosemite

Optics
SP - Spot, FL - Flood, WW - Wall Wash

Lamp Type
0 - By others
81 - 35/76/830 MH (35W)
82 - 70/76/830 MH (70W)

Finish
Powder Coat Color: Satin, Wrinkle
Bronze, BZC, BLW
Black, BK, BLK
White/Gloss, WHP, WBLW
Aluminum, SAP
Veneer, VER

Lens Type
9 - Clear (Standard), 10 - Spread, 13 - Rectilinear

Shielding
11 - Honeycomb Baffle

Accessories
CV - Cutoff Visor, CS - Cutoff Shroud, BD - Adjustable Barn Doors

Ballast Style
HP35-120 or 277 - Recessed in grade (35W)
HP70-120 or 277 - Recessed in grade (70W)
HPRM35-120 or 277 - Recessed in grade (35W)
HPRM70-120 or 277 - Recessed in grade (70W)
PPI1-120 or 277 - Power Pole 1" above grade (35W only)
PC35-120 or 277 - Power Canopy™, wall or ceiling mount (35W)
PC70-120 or 277 - Power Canopy™, wall or ceiling mount (70W)
RM35-120 or 277 - Remote wall mounted housing (35W)
RM70-120 or 277 - Remote wall mounted housing (70W)
TSB35-120 or 277 - Tree strap mounted electronic ballast (35W)
TSB70-120 or 277 - Tree strap mounted electronic ballast (70W)
TMB35-120 or 277 - Pole top or tenon mount electronic ballast (35W)
TMB70-120 or 277 - Pole top or tenon mount electronic ballast (70W)

For ballast information, see page 32.

Yosemite Series™ / Sequoia Series™ Ballast Options

HP Metal Halide Ballast™

PC Metal Halide Ballast™

RM Metal Halide Ballast™

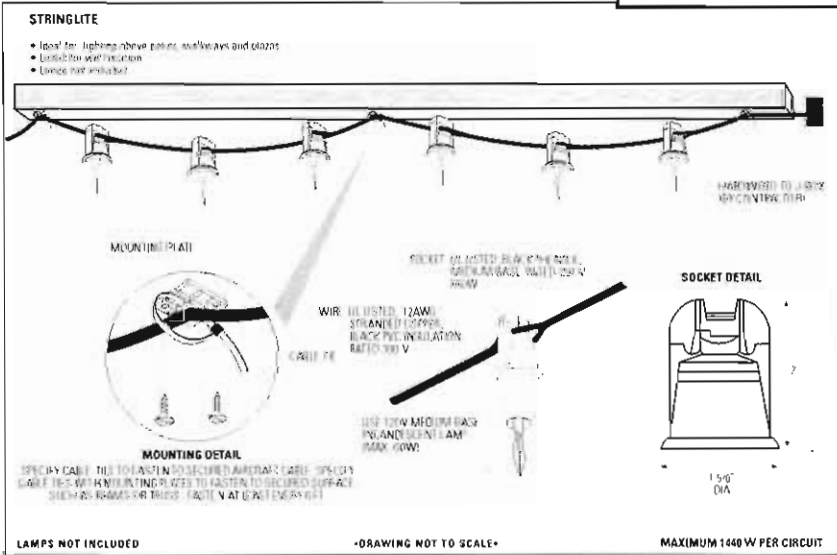
HP Remote Metal Halide

TSB Metal Halide Ballast™

PPI Metal Halide Ballast™

TMB Metal Halide Ballast™

For ballast electrical data and remote ballast wiring distances, see page 127.



SPECIFICATIONS

PRODUCT CODE	SOCKET SPACING	
SH	12"	18"
	12" W CENTER	18" W CENTER
		18" W CENTER OTHER SPACING

EXAMPLE: SH - 12 - 18

FILL OUT BELOW FOR SUBMITTAL

PROJECT NAME	SPECIFIER
FIXTURE SCHED TYPE	CONTRACTOR
QUANTITY	DISTRIBUTOR
LENGTHS	REPRESENTATIVE

CATALOG NUMBER LOGIC

Example: **EC - LED - e22 - SP - BLW - 12 - 11 - B**

Material
Blank Aluminum
B Brass
S Stainless Steel

Series
EC E-Capacitor™ Series

Source
LED W Technology with Integral Driver

LED Type

e36	HWLED36K	e23	HWLED23K	e25	HWLED25K	e27	HWLED27K
e22	HWLED22K	e24	HWLED24K	e26	HWLED26K		

Optics*

ASP	Narrow Beam (Spot Indicator)	MFL	Medium Flood (Flood Indicator)
SP	Spot (Beam Indicator)	WFL	Wide Flood (Flood Indicator)

Finish

Aluminum Finish	Brass Finish	Premium Finish
Black	Polished	CMG Castles Mountain Granite
Bronze	Polished	CRG Cracked Ice
Black	Polished	CMC Cream
White (Gloss)	Polished	BCM Black Chrome
Aluminum	Brushed	BGE Beige
Black	Brushed	BPP Brown Patina Powder
		CAP Clear Anodized Powder

Lens Type
12 Soft Focus Lens
13 Rectilinear Lens

Shielding
11 Honeycomb Baffle

Cap Style
A - 45°
B - 90°
C - Flush
D - 45°
E - 90°
Less weep-hole

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRF (Typ.)	Minimum Rated Life (hrs.)
e36	2700K	8.4	90	50,000
e22	3100K	8.4	90	50,000
e23	4100K	8.4	75	50,000
e24	Red (627nm)	7.9	-	50,000
e25	Green (530nm)	8.4	-	50,000
e26	Blue (470nm)	8.4	-	50,000
e27	Amber (590nm)	7.9	-	50,000

L70 DATA

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

B-K LIGHTING

4028 Boulevard - Redlands, CA 92353 • USA
909-439-5800 • Fax 909-438-5300
www.bklighting.com • info@bklighting.com

PROJECT DATE: 12-5-11
DRAWING NUMBER: SUB000942

LDC
Chesterfield
Outlets
Proj.# 537.20
Issue Date: 1/23/12

FX11

FRONT VIEW
"A/D" CAP "B/E" CAP "C" CAP

SIDE VIEW

CANOPY DETAIL

UNIVERSAL RING

Accessories (optional)

Remote options:

TRIM DIMMER

PROJECT: _____

TYPE: _____

SPECIFICATIONS

Green Source Initiative™
Special and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure a carbon-neutral handling. Packaging contains no chlorofluorocarbons (CFCs). Use of this product may qualify for GreenSource® energy and recycling rebates. Consult www.bklighting.com/green for program requirements.

Materials
Fabricated in Copper Free Aluminum (Type 6061 T6), Brass (Type 360) or Stainless Steel (Type 316).

Body
Fully machined from solid billet. Underbody design provides removal, water-proof venting and internal heat sink for maximum component life. High temperature, adhesive IP-Resin provides stress relief seal.

Cap
Fully machined. Accommodates 1/2 inch or longer media. (Fluorescent 40, 35W T4 or T5, LED 1" deep) fixed with 90° caplet (R or F) or backless (L) cap styles. A and B caps include snap hole for water and strain channel. D and F caps include snap hole and are for interior use only.

Lens
Shock resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify with lens (L2) or no lens (N13) lens.

BKSSL™
Patented solid state system with LED technology is suitable for field upgrade. Modular design with electrical space efficiency permits field maintenance. High power, forward theta source complies with ANSI C80.171 testing requirements. Forward ENERGY STAR luminous efficacy requirements. LM80 on third component.

Wiring
Yellow coated, 18AWG, 60V, 240°C listed and certified to UL 1609 standard.

Hardware
Large stainless steel hardware. Canopy mounting screws are additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard™ (Pat. Pend.) is a built-in, 15 stage chromate-free process. Clean and corrosion resistant aluminum components pass application of Class 3, TGF, 100% pinhole-free coating. (Finish components are available in powder coat or hand-applied metal finish. Stainless steel components are available in hand-applied metal finish (brushed finish) for interior use only).

Warranty
5 year limited warranty.

Certification and Listing
UL listed to ENEC LED 79. (Lighting Units Registration per UL ENEC www.lightingfacts.com). ETL listed to ANSI A83.1 Standard 1838 and UL Subject 8750 and Certified to CAN/CSA Standard C22.2 No. 0. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. (IP66 Rated, Made in USA)

Lighting Facts **RoHS**

*UL is a registered trademark of Underwriters Laboratories Inc. ENEC is a registered trademark of ENEC (Netherlands) B.V.

B-K LIGHTING 40429 Birchwood Drive • Madison, CA 95108 • USA SUBMITTAL DATE: 12-5-11 DRAWING NUMBER: SUB000942

252-436-5900 • FAX 252-436-5900 www.bklighting.com • info@bklighting.com

LDC
Chesterfield
Outlets
Proj.# 537.20
Issue Date: 1/23/12

FX12

PLATES Collection - Recessed
Page 1 of 2

1. Style:

Plates Wall Recessed (PLR)

* 720° Ceiling Recessed (PLC)

* Available in 12" x 12" Only

2. Panel Type:

Amate Natural glass (AN)

Amate Ivory glass (AI)

Watermelon glass (WM)

Unyu Red glass (RD)

Green glass (GR)

Sonoma glass (SN)

Bamboo (Leaves) glass (BL)

Marbled Volcano glass (MV)

Marbled Green glass (MG)

Marbled Turquoise glass (MT)

3. Size:

12" x 12" (12x12) 1 or 2 x PL-L 18W lamps

18" x 6" (18x6) 1 x PL-L 24W lamps

24" x 12" (24x12) 1 or 2 x PL-L 36W lamps

4. Lamp Quantity:

1

2

* only available in 24x12

5. Ballast Specification:

LED - LED Power Supply (LED)

STD - Standard (STD) - Electronic, non-dim <10% THD

MK7 - Mark 780 Dimming D-12V (MK7)

MK10 - Advance Mark 100 Dimming (MK10)

SES - Lutron Compact SES® (SES)

ECOSYS - Lutron ECOSYS® (ECOSYS)

* Remote Emergency Ballast (optional)

6. Voltage:

120 - 120 volt

277 - 277 volt

UNV - UNV (universal) voltage

347 - 347 volt (not available in dimming)

7. Finish:

AL - Aluminum (AL)

SB - Satin Brass (SB)

BZ - Bronze (BZ)

All standard finishes are plated and cannot be powdercoated.

Standoff Finish Options:

AL SB BZ

Architectural Lighting Works reserves the right to make changes to fixture design, finish and engineering at any time.

www.archlightworks.com

LDC
Chesterfield
Outlets
Proj.# 537.20
Issue Date: 1/23/12

FX13

SISTEMALUX **SPECIFICATIONS**

EOS SQUARE #S.4607- VOLTAGE FAULT

Eos square is a recessed luminaire in die cast aluminum. It is designed with a stepped downward trim for lighting walkways and staircases. The glass diffuser is concealed for optimum vandal resistance.

LAMPING: 1 X 35W T4.5 METAL HALIDE, G8.5 BASE

PROJECT NAME: _____

TYPE: _____

LAST UPDATE: FEBRUARY 24th, 2009

TOP VIEW

4-1/2" (115mm) 3-3/4" (95mm)

ELEVATION VIEW

7-5/8" (195mm)

SECTION VIEW

RECESSED BOX (NOT INCLUDED)

ELECTRONIC BALLAST FOR (1) 35W METAL HALIDE

1 X 35W T4.5 METAL HALIDE (NOT INCLUDED)

WALL

EXTERNAL TRIM

MEMORY RETENTIVE CLOSED CELL SILICONE GASKET SEALING

STIPPLED ALUMINUM REFLECTOR FOR OPTIMUM SYMMETRICAL LIGHT OUTPUT

1 X 35W T4.5 METAL HALIDE (NOT INCLUDED)

IMPACT RESISTANT GLASS LENS, 1/8" THICK

DIE CAST ALUMINUM EXTERNAL TRIM

VANDAL RESISTANT AL-EN HEAD SCREWS

ELECTRONIC BALLAST FOR (1) 35W METAL HALIDE

NOTE: CONNECTIONS TO BE DONE INSIDE THE FIXTURE HOUSING.

ACCESSORIES

S.4350 BRIQUE / BOLLARD ACCESSORY

S.4372 FLANGE FOR BRIQUE / BOLLARD WITH STAINLESS STEEL SCREWS (TO BE ANCHORED IN CONCRETE)

VOLTAGE

120V 277V

METAL FINISH

09-BLACK

14-ALUMINUM

EOS SQUARE

5455 de Gessé
suite 101, Montréal (Québec)
Canada H3T 3B3
P-514 523-1339 - F-514 525-6107

LDC
Chesterfield
Outlets
Proj.# 537.20
Issue Date: 1/23/12

FX14

FCCSQ Series **New!**

Square cylinder up or down wall mount

Catalog Number

Series	Voltage	Source/Wattage	Ballast	Finish	Accessories
FCCSQ605 wall	120V 277V	2/13Q 2/26Q	>200WQ T4 70MH RX7S	E Electronic	BK Black Custom color EC E-Coat F Fuse

DOWNLIGHT AT TYPICAL BOH DOOR

>120V Only

Product Information

Listings: U.L. listed for wet location.

Housing: Corrosion resistant heavy walled housing, and lens frame, solid die-cast aluminum construction.

Gasket: Neoprene continuous closed cell 'O' ring gasket to seal out contaminants.

Fasteners: Captiva and recessed stainless steel, tamper resistant, hex socket screws.

Diffuser: Lens is heat resistant white opal tempered glass.

Reflector: Heavy gauge aluminum reflector with clear specular Alzak® finish cone.

Socket: PL: Four pin plug-in type compact fluorescent lamp holder (lamp by others) Holder assures precise optical alignment. INC (120V only): Mini cand for T4, HID: RX7S base porcelain socket, and double silicone jacket wire with a 200°C rating.

Ballast: PL: Fluorescent high power factor electronic, U.L. listed standard. HID: Electronic ballast standard. Ballast is thermally protected and is rated HPF > 90% THD < 10%. Ballast has a 5 year warranty.

Finish: Five stage preparation process that includes chromate conversion and TGIC super polyester powder-coat is standard. Optional E-coat process added to standard finish including zinc phosphate.

Mounting: Mounts directly to standard outlet box. Additional mounting holes allow unit to be attached directly to mounting surface.

TOP VIEW

7-1/2" 4-1/4"

6-7/8" 3-7/8" 11-3/4"

WINDOW - ONE SIDE ONLY

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LDC
 Chesterfield
 Outlets
 Proj.# 537.20
 Issue Date: 1/23/12

FX15

FCW Series
 Exterior architectural
 wall mount



Architectural
 Wall Mount

Catalog Number

Series	Voltage	#Lamps/Source/Wattage	Ballast	Finish	Accessories
FCW1010	120V	FCW1010 only	E Electronic	BK Black	D Dimming (PL only)
FCW1011	277V	200INC	M Magnetic	WH White	EC E-coat
	347V (Canvite)	100MH 100HPS		CC Custom color	EMR Emergency back-up, remote (PL only)
		FCW1010 & FCW1011			F Fuse
		2 -13Q 100INC 50MH			PE Photo eye
		2 -26Q 70MH			PCL Polycarbonate lens (PL only)
		2 - 32T 35HPS			Q Quartz restrike (HID integral ballast only)
		2 - 42T 50HPS			SB Sandblasted lens
		D-5TT 70HPS			

† Recommended tamping
 ‡ not available with 277V or 347V electronic ballast

Product Information

Listing: U.L. listed for wet location down position only; damp listing for up position

Housing: Corrosion resistant heavy gauge cold rolled steel. Deformed and seam welded for solid construction

Gasket: Neoprene continuous closed cell gasket to seal out contaminants

Fasteners: Captive stainless steel, tamper resistant, hex socket screws

Diffuser: Lens is 1/8" thick, tempered clear, heat resistant, standard Sandblasted lens optional

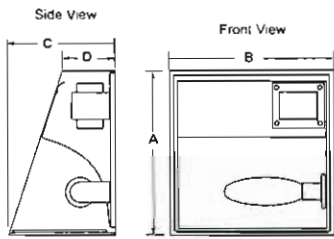
Reflector: Precision formed aluminum reflector for maximum reflectance

Socket: PL: Four pin plug-in type compact fluorescent lamp holder (also by others). Holder assures precise optical alignment INC (120V only); Medium base porcelain socket. Nickel plated shell, spring loaded contact. HID: Medium base 4KV pulse rated porcelain socket. Nickel plated shell, spring loaded contact. Incandescent and HID socket wire is double silicone jacket wire with a 200°C rating.

Ballast: PL: Fluorescent high power factor electronic, U.L. listed ballast standard. HID: Dual voltage (120/277) core and coil, high power factor, thermally protected ballast, standard

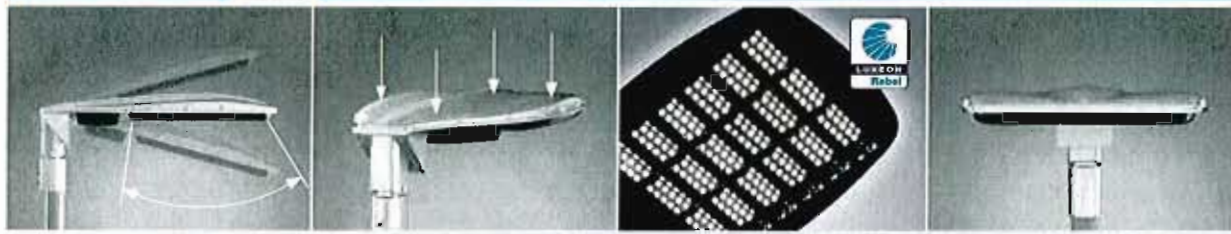
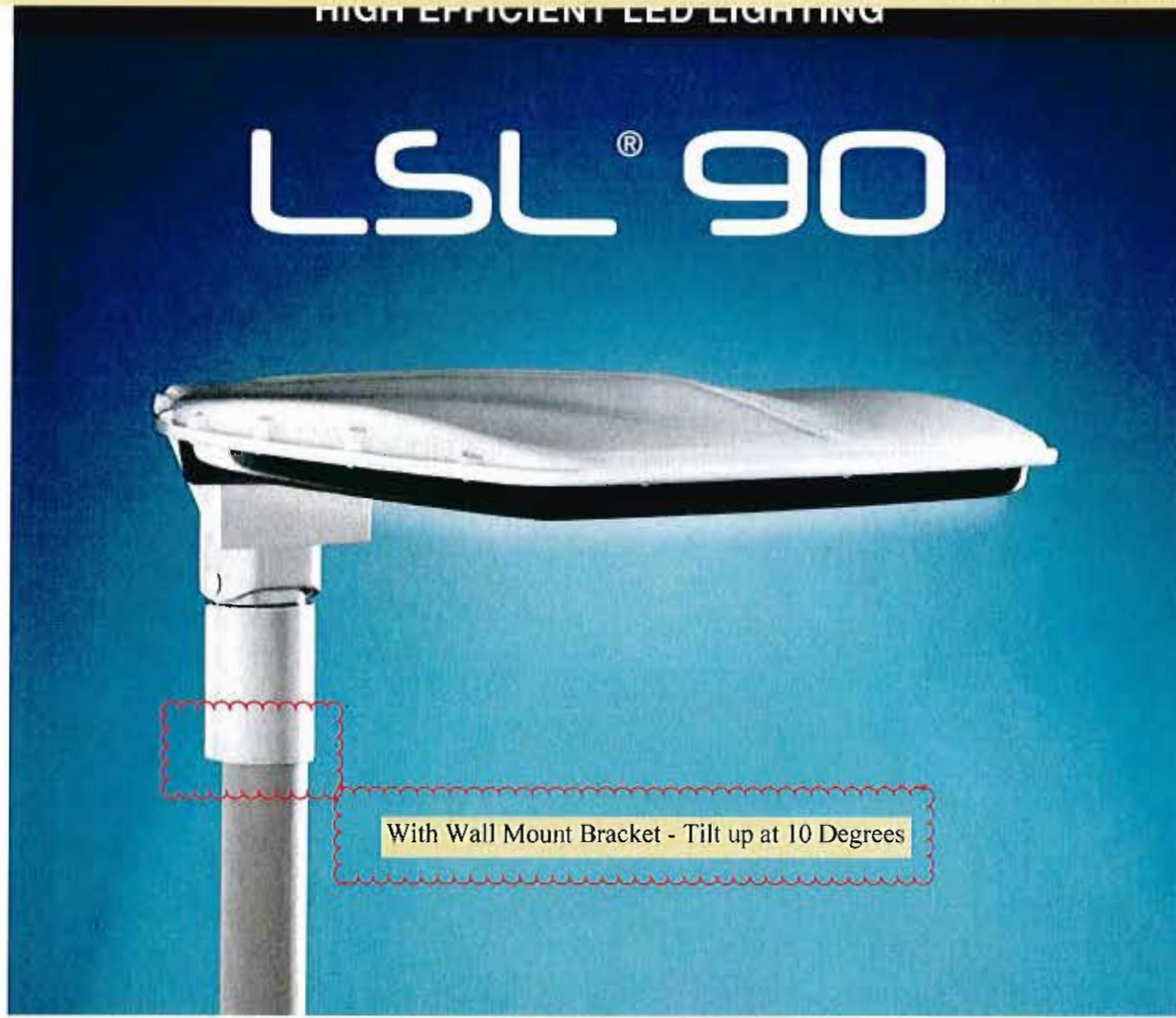
Finish: Five stage preparation process that includes zinc phosphate and TGIC super polyester powder-coat as standard. Optional E-coat process added to standard finish including zinc phosphate

Mounting: Wires directly to standard outlet box. Additional mounting holes allow unit to be attached directly to mounting surface



Model#	A	B	C	D
FCW1010	12"	12"	8"	4"
FCW1011	9"	12"	8"	4-3/4"





LED light source combined with high efficient reflectors directs the light exact where it is needed.

Robust casing made out of Aluminium Alloy guarantees excellent durability in all weather conditions.

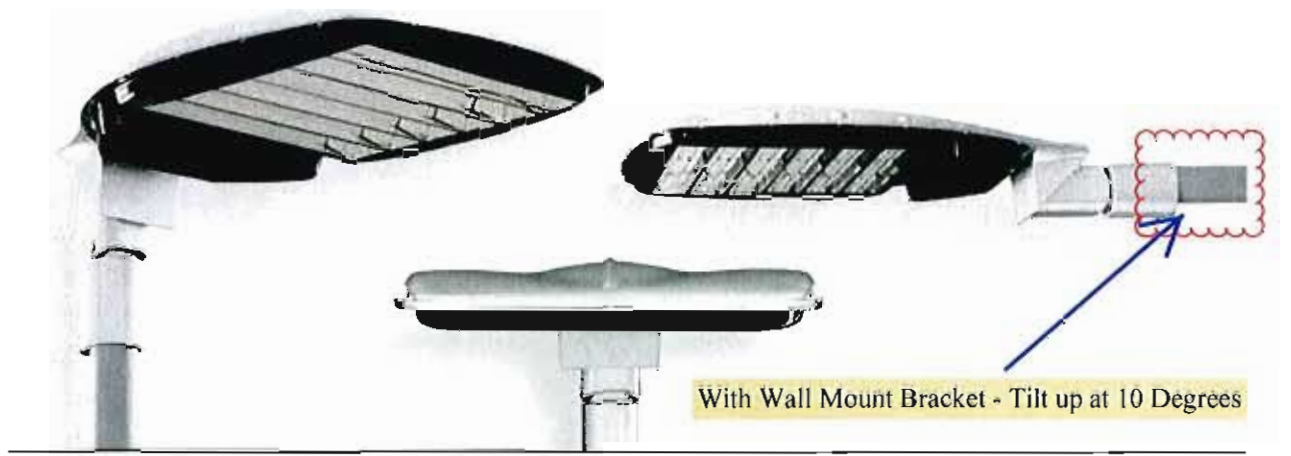
The product LSL® 90 with 90 LED light sources has better light output characteristics at only half the consumption of energy.

Produced under Automotive Standards.

MADE IN EUROPEAN UNION
Product developed, designed and produced in Slovenia - EU.

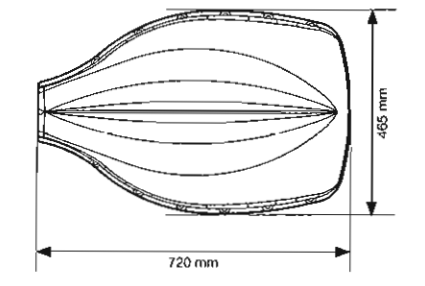
GRAH
AUTOMOTIVE
www.grah **CPD**

HIGH EFFICIENT LED LIGHTING
LSL® 90

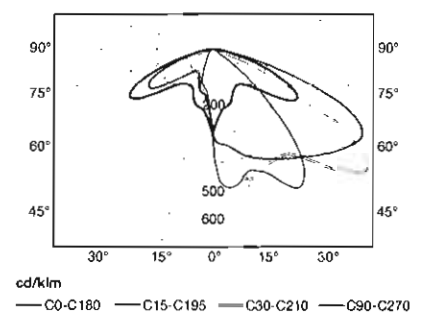


APPLICATION
Urban roads, connected roads, high speed traffic roads, junctions or wherever the required level of illumination 1 cd/m2 (ME3 street category).
Suitable for parking lots and more demanding industrial buildings.
Recommended mounting height is 7-12 m.

MOUNTING
Fast and universal mounting to a lamp post with a diameter of 60 mm. Alternative mounting concepts possible on the request.
Possibility of setting the angle of mounting in the range of -15° to +15°.
The light can be adjusted in the horizontal position - swing.



TYPE	LSL® 90
Light Source	90 LED
Luminaire flux	9300 lm
Light Tone	4200 K
Power Consumption	122 W
Lifetime	Minimum 60.000 hours
Protection Rating	IP 66
Weight	8 kg



ORDER NO.

1800801	basic version (without dimming)
1800803	with Power reduction (50%)
1800805	dimming range from 1-100% (control signals 1-10V)



DISTRIBUTOR

MANUFACTURER
GRAH Automotive d.o.o.
Mestni trg 5B
SI-3210 Slovenske Konjice
Slovenia - EU
Tel.: +386 3 757 16 36
Fax: +386 3 757 34 87
Mail: info@grah-auto
www.grah-automot

CPD



DESCRIPTION

The Ventus™ LED area luminaire provides uncompromising optical performance and outstanding versatility for a wide variety of area and roadway applications. Patent pending modular LightBAR™ technology delivers uniform and energy conscious illumination to walkways, parking lots, roadways, building areas, and any security lighting application. UL/cUL Listed for wet locations.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Die-cast aluminum frame secures thermally conductive, extruded aluminum heat sink to independent electrical chamber. Heavy-wall, die-cast aluminum housing and door isolates driver components for cooler operation. The unique construction allows for passive cooling and natural cleaning of the extruded heat sink ensuring reliable operation at 40°C high ambient conditions. Stainless steel fasteners and hinging allow access to electrical components for installation and maintenance. Optional tool-less hardware available for ease of entry into electrical chamber.

Optics

Choice of thirteen (13) patented, high-efficiency AccuLED Optics™ manufactured from injection-molded acrylic. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and nominal 70 CRI.

Electrical

LED drivers mounted to die-cast aluminum back casting for optimal heat sinking and operation efficiency. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. 50,000+ hour life with >70% lumen maintenance. The Ventus LED luminaire is suitable for operation in -30°C to 40°C ambient environments. LightBARs feature an IP66 enclosure rating.

Mounting

Cast aluminum 6" arm includes bolt guides allowing for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter for contractor friendly arrival of product on site. Optional internal mast arm mount accepts a 1-1/4" to 2" O.O. horizontal tenon, while a 2-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment. Tenon adapters available to slip fit over poles equipped with 2-3/8" or 3-1/2" O.D. tenon. 3G vibration rated.

Finish

Cast components and arm finished in SuperTGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum, and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Ventus features a five-year limited warranty.



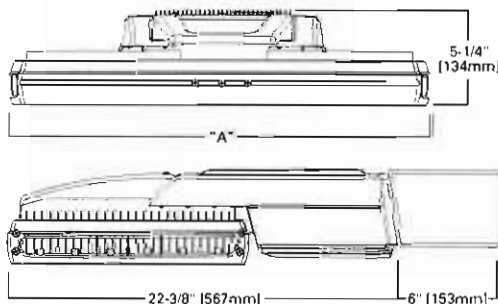
VTS
VENTUS
LED

2 - 12 LightBARs
Solid State LED

AREA LUMINAIRE



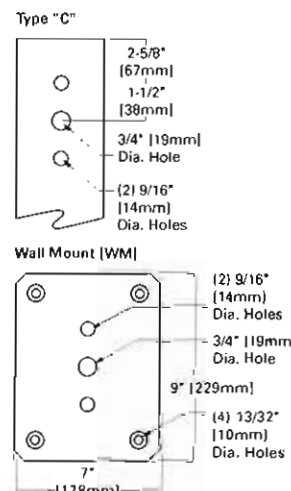
DIMENSIONS



TABULATED REFERENCE DATA

# of Bars	"A" Width [in/mm]	Weight [lbs./kgs.] w/o Arm	Weight [lbs./kgs.] w/Arm	EPA [sq. ft.] w/o Arm	EPA [sq. ft.] w/Arm
2-4	12-7/8 [328]	24 [10.91 kgs.]	29 [13.18 kgs.]	0.94	1.00
5-8	18 [458]	30 [13.64 kgs.]	35 [15.91 kgs.]	1.10	1.20
9-12	25-7/8 [658]	39 [17.73 kgs.]	44 [20.00 kgs.]	1.31	1.44

DRILLING PATTERNS



CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightBARs
3G Vibration Rated
ARRA Compliant
ISO 9001

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA

Approximate Net Weight:
(See Tabulated Reference Data)



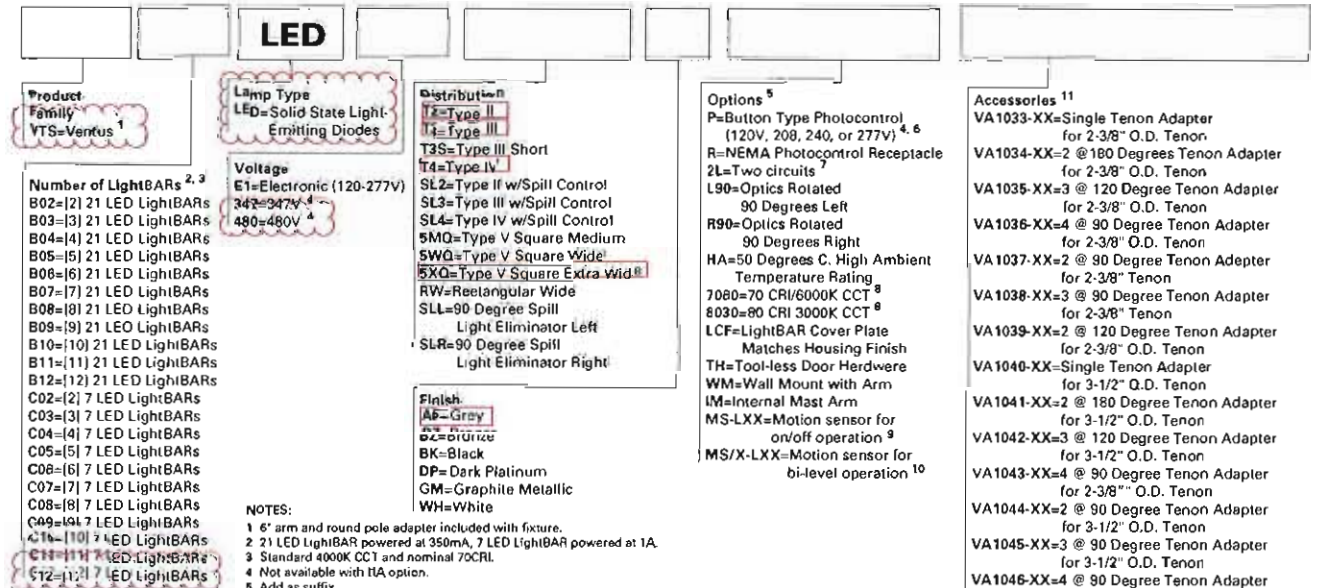
Number of LightBARs	DISTRIBUTION														
	Power [Watts]	Power [Watts]	Current @ 120V [A]	T2	T3	T3S	T4	SL2	SL3	SL4	5MO	5WO	5XQ	RW	SLR/SLL
7 LED LIGHTBAR															
C02	54	54	0.46	3.668	3.854	3.857	3.903	3.994	3.550	3.610	3.895	3.897	3.739	3.603	3.457
C03	77	77	0.65	5.854	6.533	6.305	6.305	6.412	6.375	6.467	6.837	6.802	6.660	6.506	6.198
C04	101	101	0.86	7.557	7.928	7.327	7.217	7.404	7.312	7.435	7.911	7.933	7.701	7.545	7.072
C05	131	131	1.11	9.228	9.193	8.848	8.813	9.041	8.930	9.080	9.697	9.640	9.404	9.214	8.648
C06	154	154	1.30	11.309	11.167	10.869	10.705	10.997	10.847	11.030	11.779	11.710	11.473	11.192	10.490
C07	178	178	1.51	12.969	12.819	12.578	12.395	12.705	12.550	12.761	13.628	13.548	13.216	12.918	12.187
C08	202	202	1.72	14.481	14.428	14.041	13.836	14.187	14.013	14.249	15.217	15.127	14.787	14.459	13.850
C09	225	225	1.87	16.050	16.737	16.291	16.045	16.460	16.258	16.531	17.054	17.050	17.171	16.775	16.105
C10	255	255	2.16	16.738	18.667	18.169	17.895	18.398	18.183	18.487	19.090	19.074	19.086	18.799	18.046
C11	275	275	2.37	20.506	20.425	19.654	19.584	20.001	19.844	20.176	21.649	21.472	20.898	20.475	19.191
C12	303	303	2.58	22.185	22.025	21.438	21.184	21.651	21.395	21.754	23.232	23.096	22.530	22.075	20.690
21 LED LIGHTBAR															
B02	51	51	0.43	4.612	4.405	4.376	4.308	4.427	4.365	4.440	4.741	4.714	4.605	4.605	4.258
B03	73	73	0.57	6.932	6.806	6.805	6.525	6.693	6.611	6.722	7.179	7.137	6.962	6.892	6.394
B04	98	98	0.81	8.286	8.289	8.019	8.077	8.106	8.598	8.145	8.767	8.710	8.477	8.261	8.086
B05	124	124	1.00	11.350	11.307	11.006	10.940	11.120	10.904	11.186	11.927	11.857	11.567	11.358	10.622
B06	146	146	1.24	12.787	13.735	13.369	13.167	13.508	13.342	13.566	14.480	14.403	14.050	13.787	12.903
B07	168	168	1.43	15.951	15.891	15.467	15.294	15.629	15.436	15.686	16.362	16.604	16.256	16.027	14.988
B08	190	190	1.62	17.811	17.744	17.231	17.050	17.450	17.236	17.676	18.717	18.607	18.151	17.784	16.685
B09	219	219	1.80	20.664	20.585	20.037	19.796	20.245	19.997	20.333	21.715	21.587	21.058	20.423	19.349
B10	241	241	2.00	23.047	22.960	22.348	22.011	22.580	22.303	22.678	24.215	24.076	23.487	23.012	21.555
B11	263	263	2.24	25.323	25.177	24.458	24.089	24.712	24.405	24.818	26.505	26.349	25.704	25.185	23.805
B12	295	295	2.43	27.194	27.031	26.369	25.971	26.643	26.315	26.758	28.576	28.408	27.719	27.152	25.449

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.04
15°C	1.03
25°C	1.00
40°C	0.96
50°C	0.92

ORDERING INFORMATION

SAMPLE NUMBER: VTS-B12-LED-E1-T3-GM



NOTES:

- 6" arm and round pole adapter included with fixture.
- 21 LED LightBAR powered at 350mA, 7 LED LightBAR powered at 1A.
- Standard 4000K CCT and nominal 70CRI.
- Not available with IIA option.
- Add as suffix.
- Must specify voltage.
- Requires two electrical circuits to luminaire. See LightBAR operation table for additional information.
- Consult Factory for lead times and lumen multiplier.
- Sensor housed in external box mounted to the luminaire. Available in B02-B12 and C02-C12 configurations. Replace XX with mounting height in feet for proper lens selection, (i.e., MS-L25). Consult factory for additional information.
- Sensor housed in external box mounted to the luminaire. Available in B02-B12 and C02-C12 configurations. Replace X with number of bars operating in low output mode and replace XX with mounting height in feet for proper lens selection, (i.e., MS3-L25). Maximum 4 bars in low output mode. Consult factory for additional information.
- Order separately, replace XX with color suffix.

NOTE: Specifications and dimensions subject to change without notice.

Visit our web site at www.cooperlighting.com

Customer First Center 1121 Highway 74 South Peachtree City, GA 30289 770.486.4800 FAX 770.486.4801



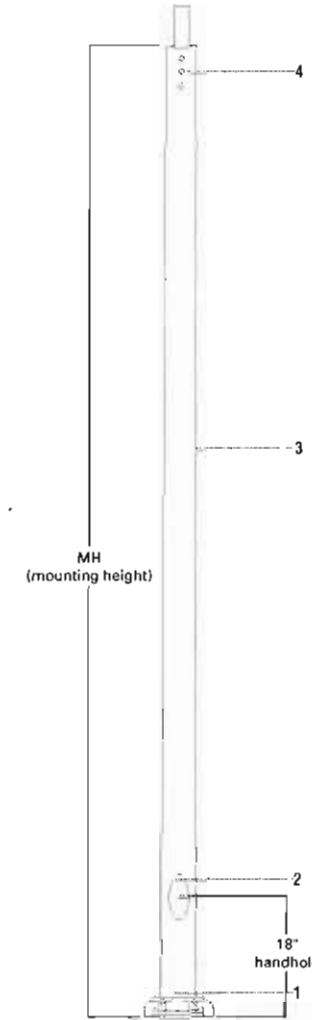
LIGHTBAR OPERATION WITH 2L TWO CIRCUIT OPTION

# of LightBARs	Circuit 1	Circuit 2
2	1	1
3	2	1
4	2	2
5	3	2
6	3	3
7	4	3
8	4	4
9	5	4
10	6	4
11	7	4
12	8	4

OPTIC ORIENTATION



RTA ROUND TAPERED ALUMINUM



SPECIFICATION FEATURES

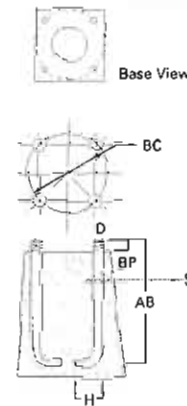
- 1... Cast aluminum alloy shoe base with aluminum alloy bolt covers or base cover dependent upon base type.
- 2... Flush reinforced 2 3/8" x 4 1/2" for 4" shafts. Hand hole assembly with internal reinforcing frame. 3" x 5" for 5" and 6" shafts. 4" x 6" for 7", 8", 10" shafts. Ground lug located opposite hand hole opening drilled & tapped for 3/8" 16NC-2 grounding screw.
- 3... Tapered aluminum lighting shaft with polished finish
- 4... Drilled or Tenon (specify).
- 5... Anchor bolt per ASTM A576 with (1) nut, (1) flat washer, and (2) shims. Nuts, washers and threaded portion of bolt are hot dip galvanized.

FOUR BOLT ANCHORAGE

- BC= Bolt Circle
- BP= Bolt Projection
- AB= Bolt Dimensions
- D= Bolt Diameter
- H= Bolt Dimensions

FINISH COLORS

- B= Clear Anodized
- C= Dark Bronze Anodized
- D= Black Anodized
- E= Medium Bronze Anodized
- F= Dark Bronze Powder Coat
- V= Grey Powder Coat
- W= White Powder Coat
- X= None (natural aluminum)
- Y= Black Powder Coat



WARNING: THE USE OF UNAUTHORIZED ACCESSORIES SUCH AS BANNERS, SIGNS OR PENNANTS FOR WHICH THE POLE WAS NOT DESIGNED FOR VOID THE COOPER LIGHTING WARRANTY AND MAY RESULT IN POLE FAILURE CAUSING SERIOUS INJURY OR PROPERTY DAMAGE. COOPER LIGHTING'S POLE WARRANTY IS ALSO VOID IF LUMINAIRE IS NOT INSTALLED AT TIME OF POLE INSTALLATION.

ORDERING INFORMATION

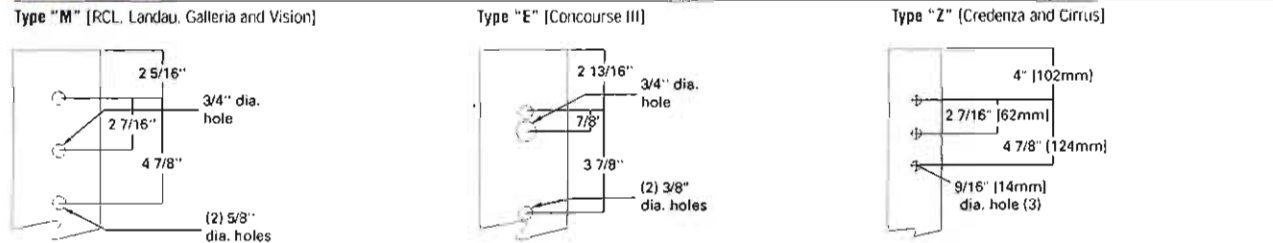
SAMPLE NUMBER: RTASM20NA

Round	Tapered	Aluminum	Shaft Dia. (at base)	Wall Thickness	Mounting Height (ft.)	Base Type	Finish	Fixture Mounting & Type	No. & Location of Arms	Arm Lengths	Accessories (Vibration Damper)
R	T	A	5	M	20	N	A	X	X	X	V

Mtg. Height (FL)	Catalog Number	Wall Thickness (in.)	Base Dia. or Square (in.)	Shaft Taper (in.)	Bolt Proj. (in.)	Bolt Circle Dia. (in.)	Anchor Bolt D x AB x H (in.)	Net Wt. (Lbs.)	EPA (Sq. Ft.) ¹				EPA (Sq. Ft.) ¹				Max. Fixture Load include Bracket (Lbs.)
									70	80	90	100	70	80	90	100	
10	RTA4110NA	.125	9 1/4	4 x 3	1 7/8	6 3/4	3/4 x 17 x 3	22	14.9	11.0	8.4	6.6	12.6	9.4	7.1	5.6	100
12	RTA4T12NA	.125	9 1/4	4 x 3	1 7/8	6 3/4	3/4 x 17 x 3	25	11.3	8.2	6.1	4.6	9.8	7.2	4.3	4.0	100
15	RTA4T15NA	.125	9 1/4	4 x 3	1 7/8	6 3/4	3/4 x 17 x 3	30	7.7	5.4	3.8	2.7	6.8	4.8	3.4	2.4	100
15	RTA5T15NA	.125	10 1/2	5 x 3	1 7/8	7 3/4	3/4 x 17 x 3	33	13.6	9.9	7.4	5.6	12.2	8.8	6.6	5.0	100
18	RTA5T18NA	.125	10 1/2	5 x 3	1 7/8	7 3/4	3/4 x 17 x 3	39	9.9	6.9	4.9	3.6	9.0	6.3	4.5	3.3	100
18	RTA6L18AA	.156	10 1/4	6 x 4	2 1/8	9 3/8	3/4 x 17 x 3	57	19.9	14.6	11.1	8.8	18.2	13.3	10.1	8.0	100
20	RTA5T20NA	.125	9 1/4	5 x 3	1 7/8	8 1/2	3/4 x 17 x 3	43	8.0	5.4	3.7	2.5	7.3	4.9	3.4	2.3	100
20	RTA7L30AA	.156	10 1/4	6 x 4	2 1/8	9 3/8	3/4 x 17 x 3	54	15.5	11.0	8.0	7.0	15.5	10.9	8.2	5.4	150
25	RTA6L25AA	.156	10 1/4	6 x 4	2 1/8	9 3/8	3/4 x 17 x 3	81	10.4	7.8	5.0	3.7	9.7	6.6	4.6	3.5	150
25	RTA8L25AA	.156	11 5/8	8 x 4 1/2	2 3/4	11 1/2	1 x 36 x 4	106	23.3	17.2	13.2	10.4	21.7	16.0	12.3	9.7	200
30	RTA7L30AA	.156	10 5/8	7 x 4	2 3/4	10 1/2	1 x 36 x 4	108	11.0	7.5	5.3	4.0	10.4	7.1	4.0	3.7	150
30	RTA8L30AA	.156	11 5/8	8 x 4 1/2	2 3/4	11 1/2	1 x 36 x 4	117	16.4	11.8	8.9	6.9	15.4	11.1	8.4	6.5	200
30	RTA0L30AA	.156	14 1/2	10 x 6	2 7/8	14 1/2	1 x 36 x 4	152	30.5	22.8	17.6	13.8	28.8	21.6	16.6	13.0	250
35	RTA8L35AA	.156	11 5/8	8 x 4 1/2	2 3/4	11 1/2	1 x 36 x 4	140	11.5	7.9	5.8	4.3	10.9	7.5	5.5	4.1	150
35	RTA0L35AA	.156	14 1/2	10 x 6	2 7/8	14 1/2	1 x 36 x 4	180	23.3	17.3	13.1	10.0	22.2	16.4	12.5	9.5	200
40	RTA8M40AA	.188	11 5/8	8 x 4 1/2	2 3/4	11 1/2	1 x 36 x 4	210	11.0	7.5	5.3	3.9	10.6	7.1	5.1	3.7	100
40	RTA0L40AA	.156	14 1/2	10 x 6	2 7/8	14 1/2	1 x 36 x 4	209	17.9	13.0	9.6	7.1	17.2	12.5	9.2	6.8	150

NOTES: 1 Factory installed vibration dampers. 2 Where higher EPA/wind speed capability or mounting height is required, other shaft dimensions and/or wall thickness are available, consult Cooper Lighting representative for pricing and lead times. The above EPA capacities are based on loading from (1994) and pole drag coefficients from (2001) American Association of State Highway and Transportation Officials Specification. 3 Catalog item includes one set of anchor bolts, single nuts and (2) leveling shims. 4 EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

DRILLING PATTERN



MACHINING FOR RECTANGULAR ARMS

Designation Letter & Number	Designation Letter & Number	Designation Letter & Number	Quantity & Location
M1	E1	Z1	Single
M2	E2	Z2	2 @ 180°
M3	E3	Z3	3 @ 120°
M4	E4	Z4	4 @ 90°
M5	E5	Z5	2 @ 90°

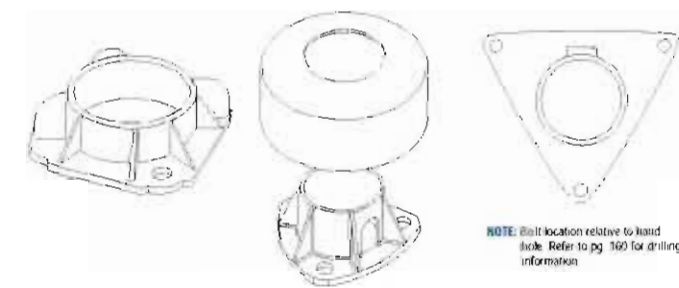
NOTES: Refer to Fixture Drilling Options on page 160

MOUNTING OPTIONS

Fixed Tenon	Designation Number	O.D. (in.)	Length (in.)
	1	2 3/8	3 1/2
	2	2 3/8	4
	5	3	4
	4	4	6

STANDARD BASE

TYPE A 6', 7', 8' or 10'
TYPE N (Standard with base cover) 4', 5', or 6'



ACCESSORIES

- C=Convenience Outlet
- E=GFI Convenience Outlet
- F=Vibration Pad
- G=Ground Lug
- V=Vibration Damper
- B=Base Cover ("A" Base Only)

NOTE: Specifications and dimensions set

