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690 Chesterfield Pkwy W • Chesterfield MO 63017-0760  
Phone: 636-537-4000 • Fax 636-537-4798 • [www.chesterfield.mo.us](http://www.chesterfield.mo.us)

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## Architectural Review Board Staff Report

**Project Type:** Amended Site Development Section Plan

**Meeting Date:** May 13, 2021

**From:** Natalie Nye, Planner

**Location:** 17312 Chesterfield Airport Road

**Description:** **Chesterfield Commons Outlot 1 (Shake Shack):** An Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 1.05-acre tract of land zoned "C8" Planned Commercial District located east of RHL Drive and south of its intersection with Chesterfield Airport Road.

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### **PROPOSAL SUMMARY**

Cochran Engineering and Bergmeyer Associates, on behalf of the applicant, have submitted a request for an Amended Site Development Section Plan for Outlot 1 in the Chesterfield Commons. The proposal includes the renovation of the existing building, formerly occupied by Steak n Shake, and modifying the site for a new fast food restaurant user. The proposed renovations will reduce the size of the building to approximately 3,275 square feet and include the addition of an outdoor patio, a second drive-through lane, new landscaping and new trash enclosure. The subject site is zoned "C8" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2081. The exterior building materials will primarily consist of thin brick, thin brick porcelain tile and cementing porcelain tile.

### **HISTORY OF SUBJECT SITE**

The subject site is part of a 128.5-acre development that was rezoned in 1997 to "C8" Planned Commercial District from "M-3" Planned Industrial and "NU" Non-Urban Districts. This development, known as the Chesterfield Commons, was originally established under Ordinance 1344. The existing building on the site was constructed in 2001 and occupied by Steak n Shake up until recently. The building has been vacant since 2019.

**STAFF ANALYSIS**

**General Requirements for Site Design:**

The subject site is located east of RHL Drive and south of its intersection with Chesterfield Airport Road. The site is located in Chesterfield Commons and is designated as Outlot 1. The subject site is surrounded by retail and fast food uses. The zoning of the subject property is “C8” Planned Commercial District and is designated as “Regional Commercial” within the City of Chesterfield’s Comprehensive Land Use Plan. The proposed use of a fast food restaurant is the same as the previous user of the site which is permitted by site-specific Ordinance 2081.

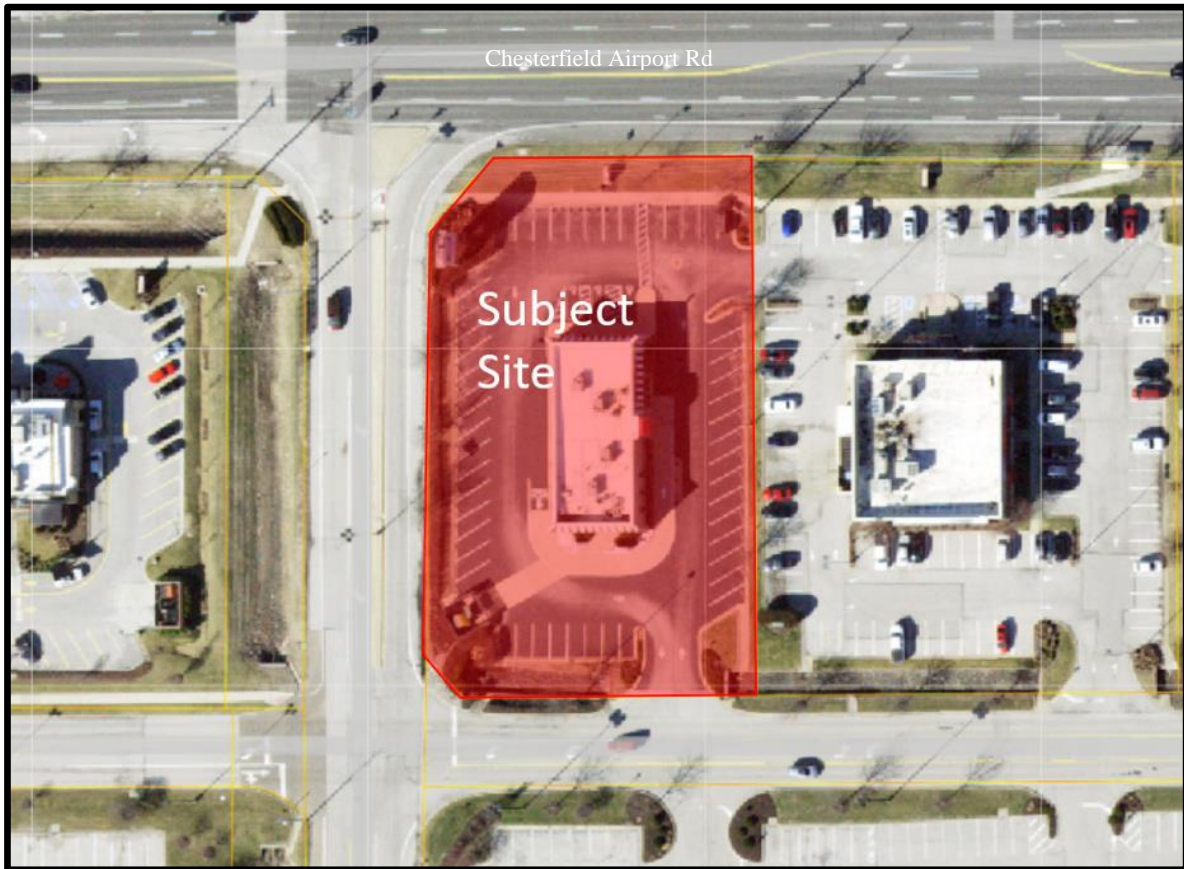


Figure 1: Aerial Site Photo (lot not drawn to scale/approximated)

The existing building fronts on Chesterfield Airport Road. The proposed building renovations will not change the general placement or orientation of the building. The renovation of the existing building will substantially change the look of the building, but will not drastically change in size. The proposed building will be smaller than the existing due to the addition of an outdoor patio space in the front of the building. The modifications to the site are minor and will not change the current function of the site.

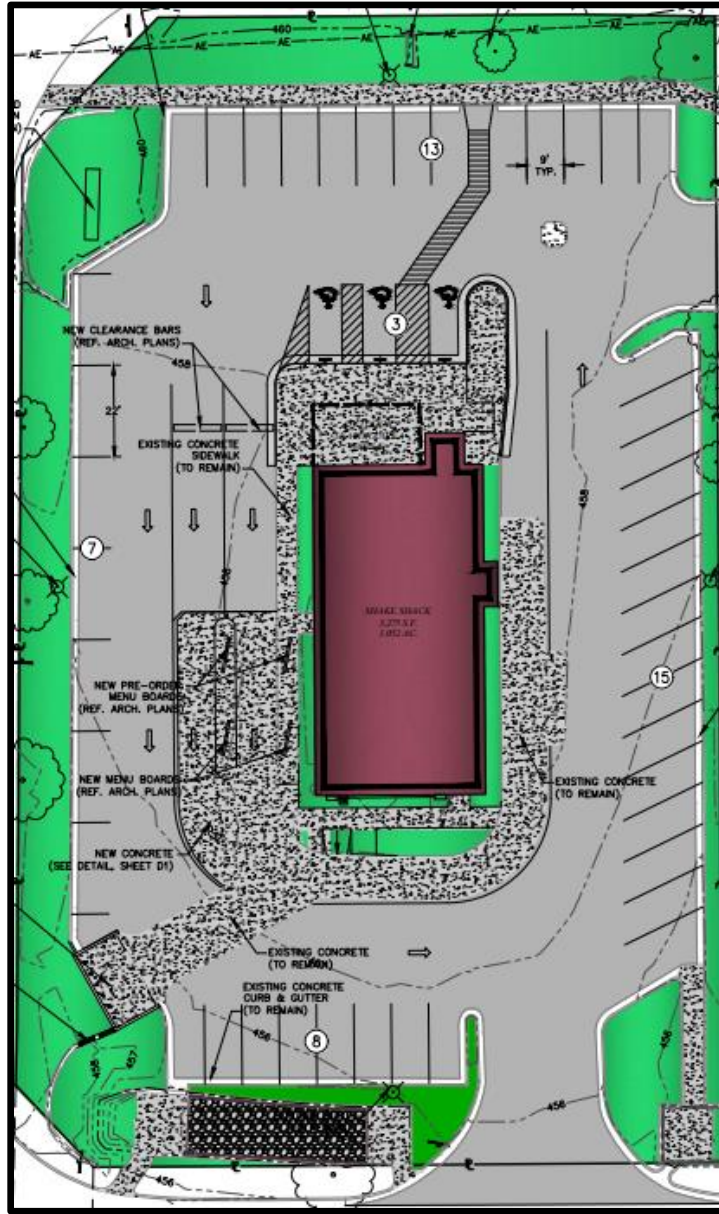


Figure 2: Color Site Development Plan

**Circulation, Access and Parking**

Access to the subject site will not change. The overall circulation will remain the same. The project will include the addition of a second drive-through lane, which will impact the existing parking along the western property line. Currently the site has a single drive through lane and 90-degree parking stalls along the western property line. With the addition of a second drive through lane, the parking will be modified to parallel parking spaces. This change will cause the site to lose 9 parking spaces. Cochran Engineering, on behalf of the applicant, has submitted a parking demand study and request to lower the minimum parking requirements. This is currently under review with the Director of Planning as the UDC permits parking modification requests within 20% of the requirement to be reviewed and approved by the Planning Director. The site will have a total of 46 parking spaces, 3 of

which will be handicapped. The overall square footage of the building and outdoor dining space is 3,655 square feet and would require 55 parking spaces without the modification. Bicycle parking will be added in front of the building.

**Topography and Storm Water**

The site is generally flat with only a few feet of grade change across the property. There is an existing Chesterfield Valley Master Plan channel running along the southern portion of the site. The channel has been inspected and may require some minor repairs to keep up with the required maintenance. No other changes to the site’s topography or stormwater are proposed.

**General Requirements for Building Design:**

This request is to allow for the renovation of an existing building at 17312 Chesterfield Airport Road to accommodate a new fast food user. The proposed building will be 3,275 square feet, 21’ 8” in height and consist of primarily thin brick, thin brick porcelain tile and cementing porcelain tile as exterior materials.

**A. Scale**

The proposed building is 21’8” in height at its highest point, and the maximum building height for this development is 45 feet per the site-specific ordinance. The existing building height is being maintained except for raising the parapet wall two (2) feet in order to screen the rooftop mechanical equipment. The main entrance to the building is on the north elevation and is designed at a human scale with the canopy above the main entry and front outdoor patio.

**B. Design**

The orientation of the building and the general site layout will remain the same. An outdoor patio and canopy will be added to the front elevation. The parapet will be raised to screen the rooftop equipment and there will be a complete change in exterior materials.

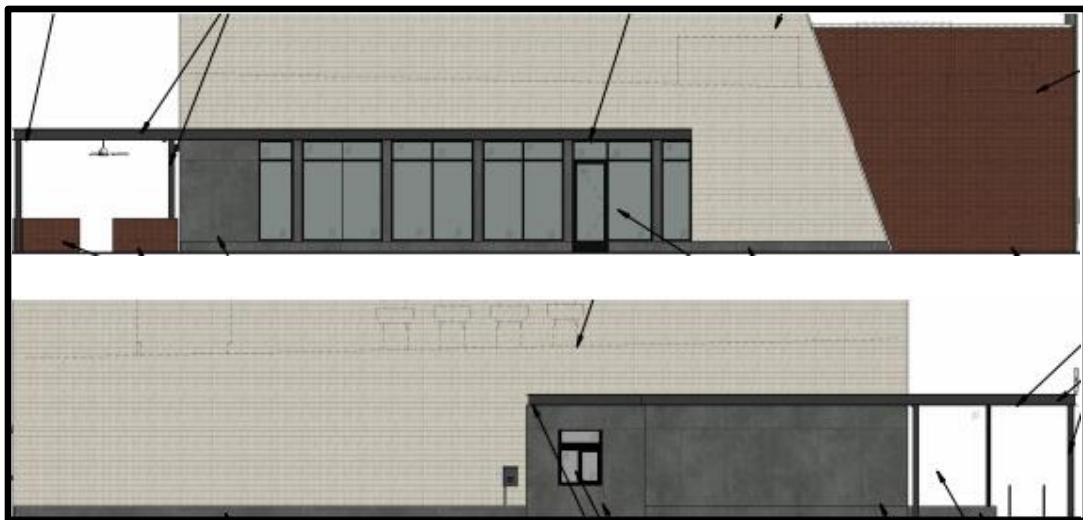


Figure 3: Color Exterior Elevations (Side Elevations)





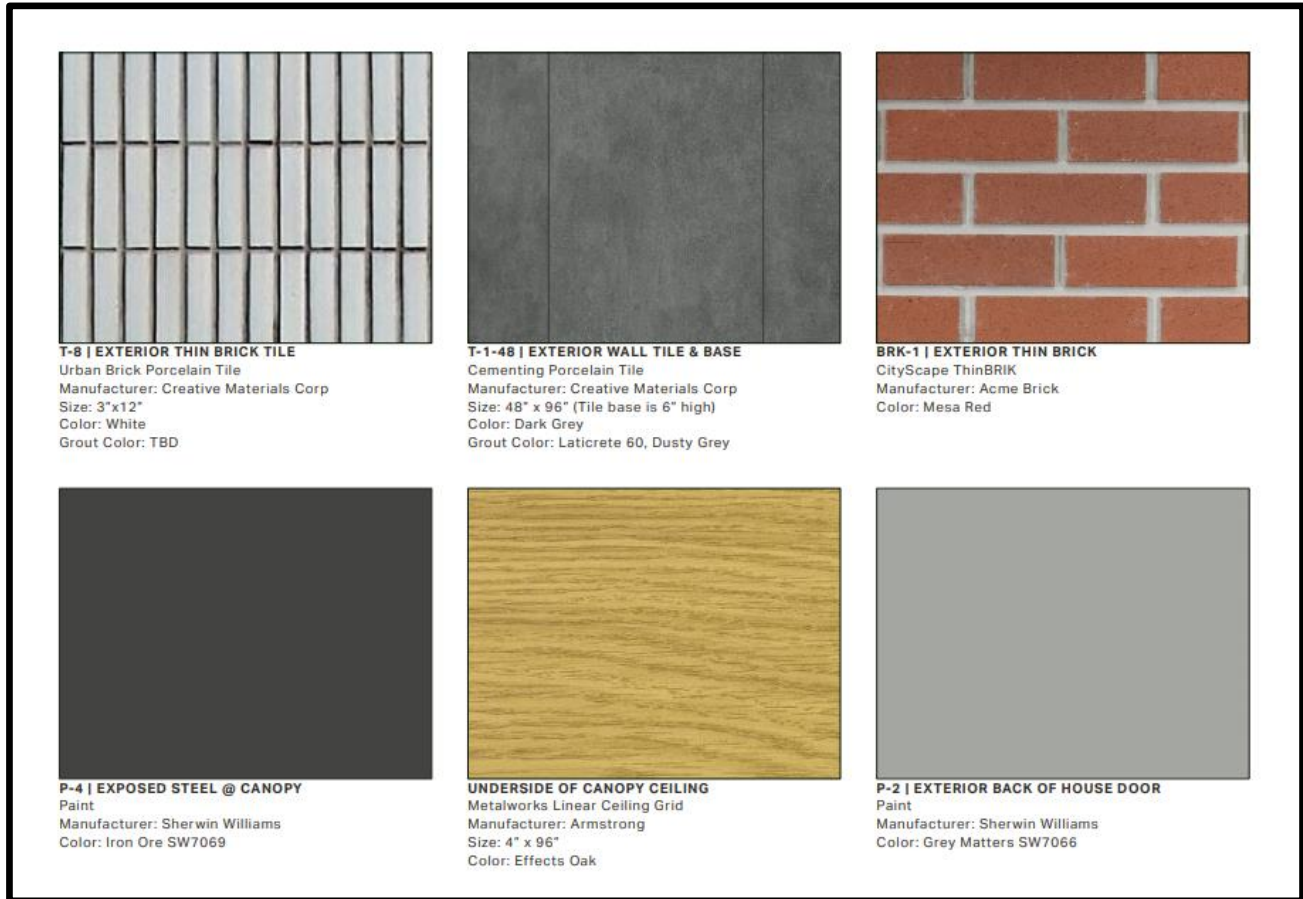
Figure 4: Color Exterior Elevations (Front/Rear)



Figure 5: Proposed rendering of the north elevation

### C. Materials and Color

The proposed building is primarily comprised of thin brick, thin brick tile and cementing porcelain tile. The design has incorporated the use of Acme Brick in Mesa Red on the exterior in order to better complement the surrounding development. The proposed building also includes dark gray steel on the entrance and outdoor patio canopy.



**D. Landscape Design and Screening**

In addition to the site’s existing perimeter landscaping, the applicant is proposing to add six (6) new trees around the perimeter of the site. New foundation plantings are proposed along each of the building’s facades. The new trash enclosure will also be adequately screened by existing landscaping. The variety of plantings have been selected from the City of Chesterfield’s approved tree list.

**E. Signage**

Signage is not part of the proposal before the Architectural Review Board and will be reviewed separately.

**F. Lighting**

The existing parking lot lighting on the site will remain unchanged. New mounted light fixtures are proposed on the renovated building. All proposed light fixtures comply with the City’s Unified Development Code. New fixtures include recessed canopy lighting over the entryway and outdoor patio and wall pack and emergency lighting over rear and side doors.

## **DEPARTMENT INPUT**

Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

Staff requests review and recommendation on this submittal for Chesterfield Commons Outlot 1 (Shake Shack).

## **MOTION**

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

- 1) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Chesterfield Commons Outlot 1 (Shake Shack) as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Chesterfield Commons Outlot 1 (Shake Shack) to the Planning Commission with the following recommendations..."

### Attachments

1. Architectural Review Packet Submittal

Bergmeyer ✕ SHAKE SHACK

## Architectural Review Board Package

MO - 1352 Chesterfield  
Apr 9, 2021

### BOS

51 Sleeper St.  
6th Floor  
Boston, MA 02210  
617.542.1025

### LA

800 South Figueroa St.  
Suite 1080  
Los Angeles, CA 90017  
213.337.1090

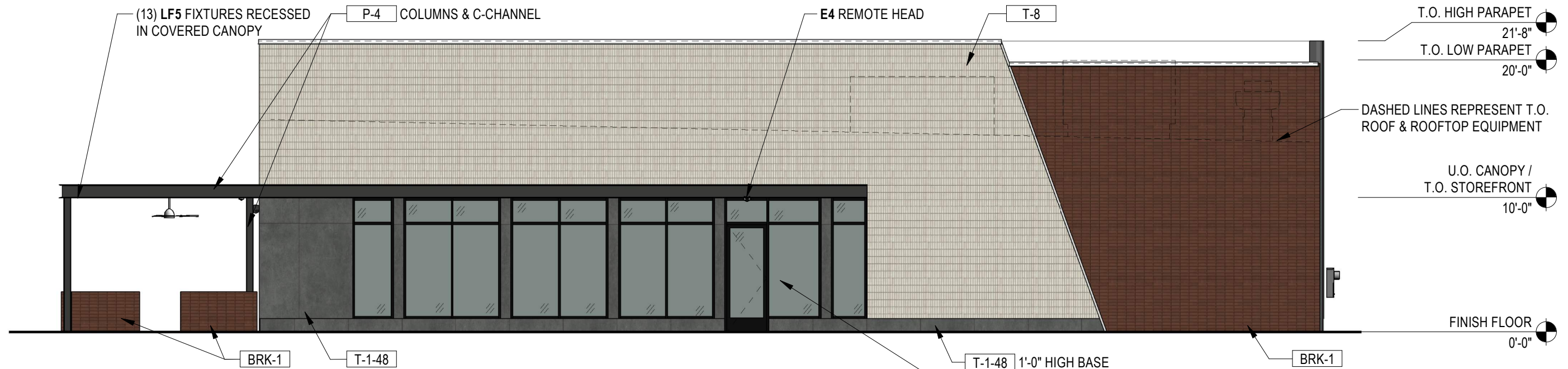


# Existing Photos



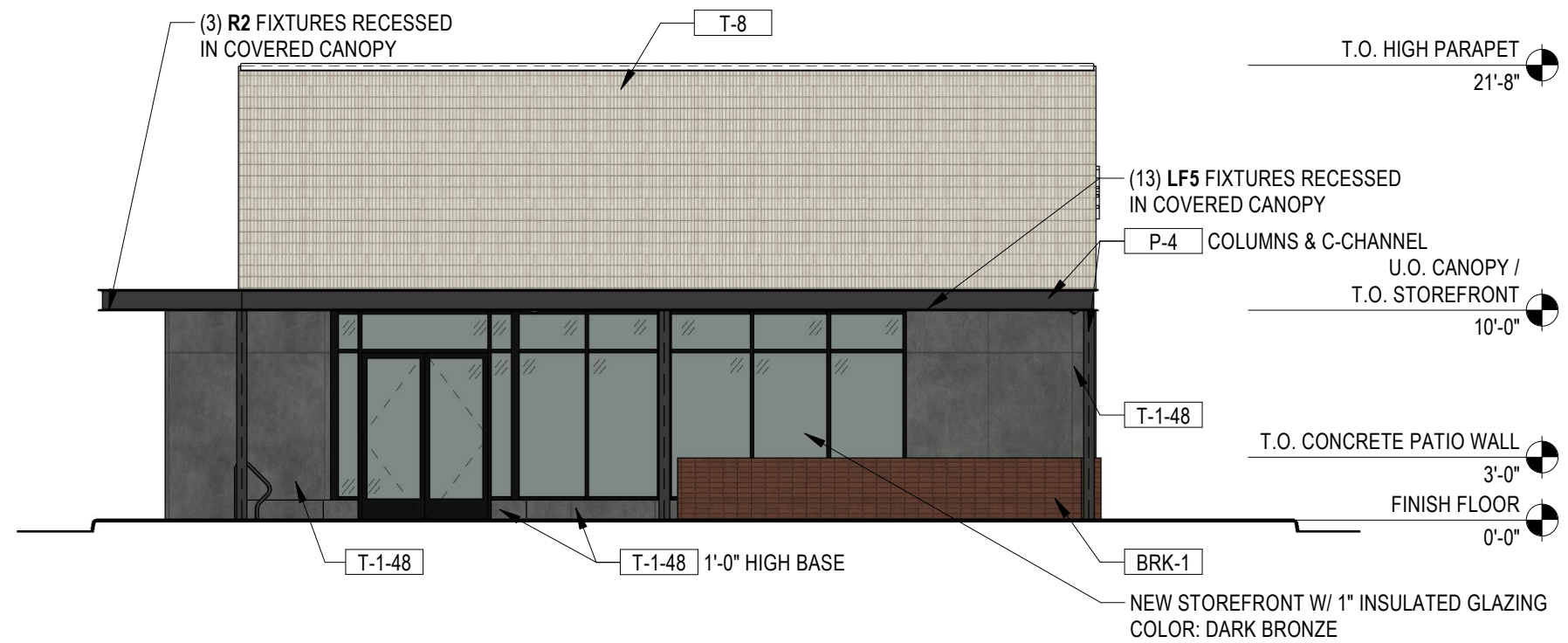


# Proposed Elevations

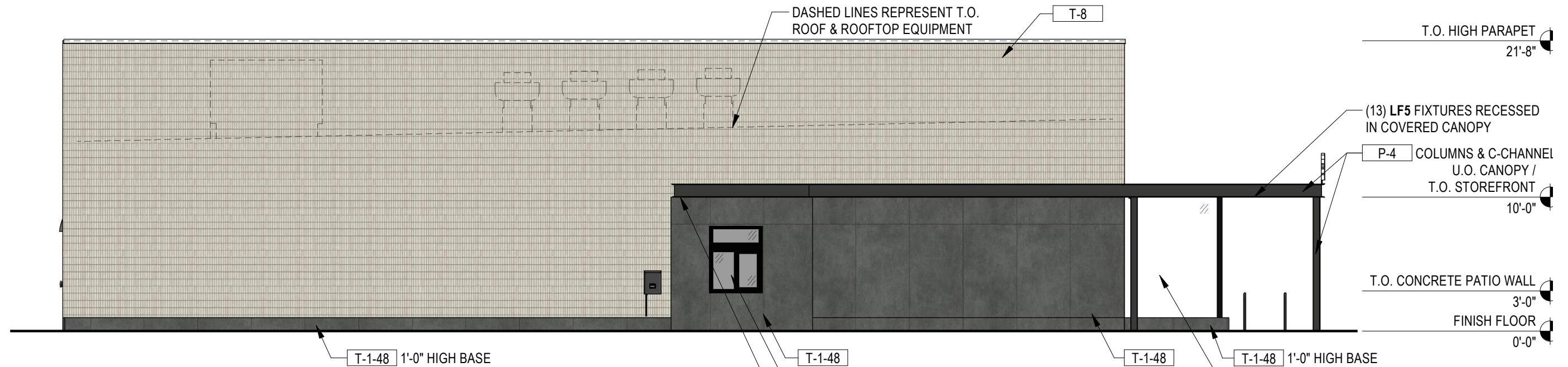


EXTERIOR MATERIAL SCHEDULE	
TAG NO.	MATERIAL
T-8	URBAN BRICK PORCELAIN TILE MANUFACTURER: CREATIVE MATERIALS CORP COLOR: WHITE
T-1-48	CEMENTING PORCELAIN TILE MANUFACTURER: CREATIVE MATERIALS CORP COLOR: DARK GREY
BRK-1	CITYSCAPE THIN BRICK MANUFACTURER: ACME BRICK COLOR: MESA RED
P-4	PAINT MANUFACTURER: SHERWIN WILLIAMS COLOR: 7067 IRON ORE
P-2	PAINT MANUFACTURER: SHERWIN WILLIAMS COLOR: 7066 GREY MATTERS

EXTERIOR LIGHT FIXTURE SCHEDULE	
TAG NO.	SPECIFICATION
E4	LED OUTDOOR REMOTE HEAD MANUFACTURER: BEST LIGHTING PRODUCTS COLOR: BLACK
L5	RECESSED HORIZONTAL LED MANUFACTURER: AXIS LIGHTING COLOR: WHITE
XW3-EM	LED WALL PACK MANUFACTURER: LUMARK COLOR: WHITE
R2	RECESSED LED DOWNLIGHT MANUFACTURER: JUNO COLOR: WHITE

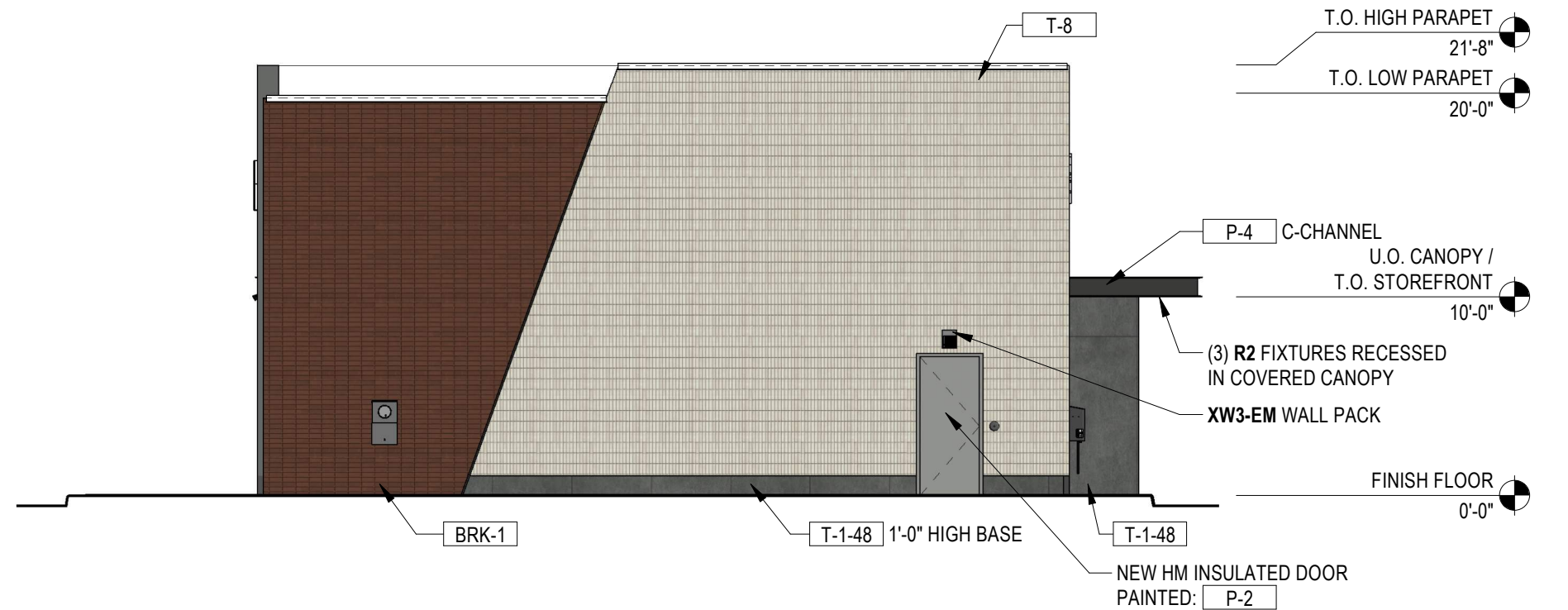


# Proposed Elevations

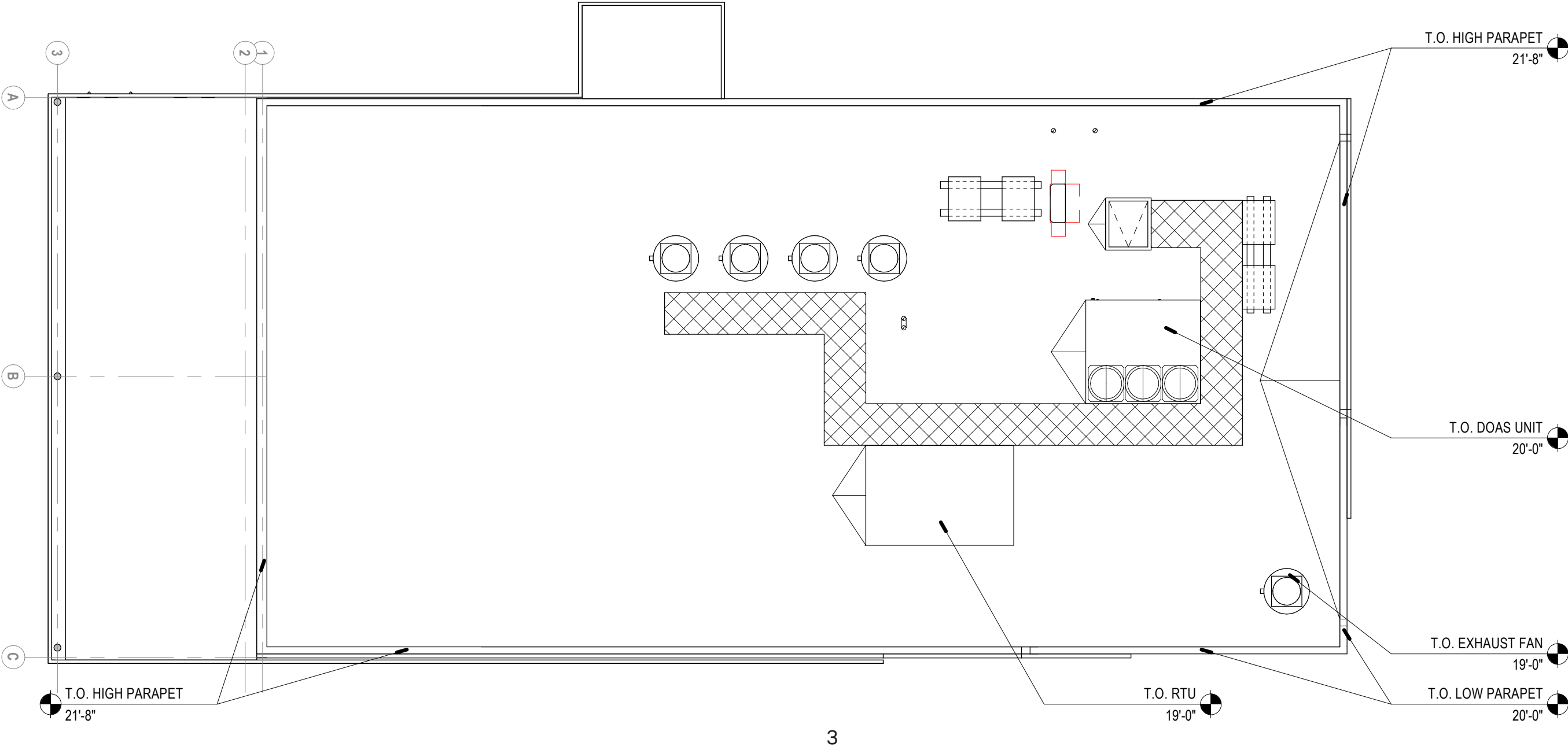


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XW3-EM	LED WALL PACK MANUFACTURER: LUMARK COLOR: WHITE
R2	RECESSED LED DOWNLIGHT MANUFACTURER: JUNO COLOR: WHITE



# Rooftop Screening Plan





# Proposed Rendering



# Proposed Rendering





# Proposed Rendering



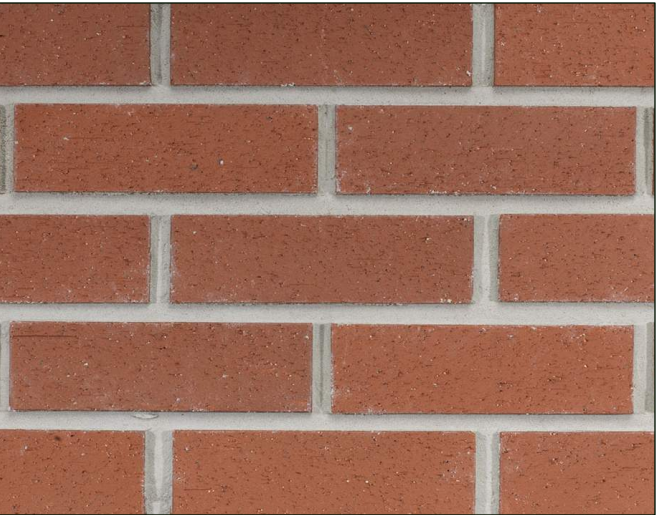
# Exterior Material Board



**T-8 | EXTERIOR THIN BRICK TILE**  
Urban Brick Porcelain Tile  
Manufacturer: Creative Materials Corp  
Size: 3"x12"  
Color: White  
Grout Color: TBD



**T-1-48 | EXTERIOR WALL TILE & BASE**  
Cementing Porcelain Tile  
Manufacturer: Creative Materials Corp  
Size: 48" x 96" (Tile base is 6" high)  
Color: Dark Grey  
Grout Color: Laticrete 60, Dusty Grey



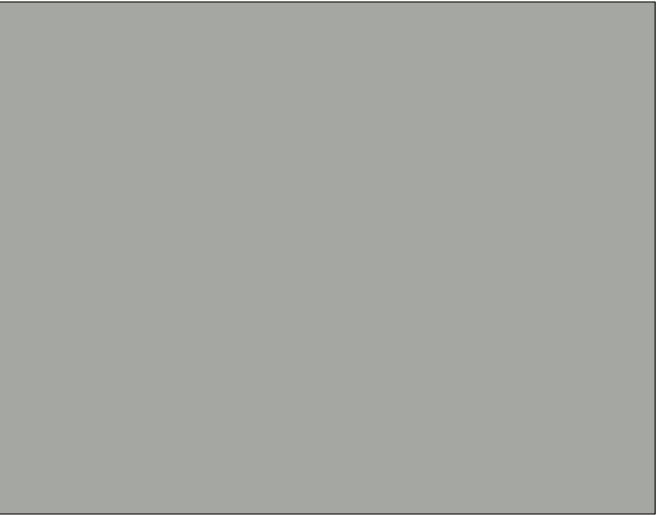
**BRK-1 | EXTERIOR THIN BRICK**  
CityScape ThinBRIK  
Manufacturer: Acme Brick  
Color: Mesa Red



**P-4 | EXPOSED STEEL @ CANOPY**  
Paint  
Manufacturer: Sherwin Williams  
Color: Iron Ore SW7069



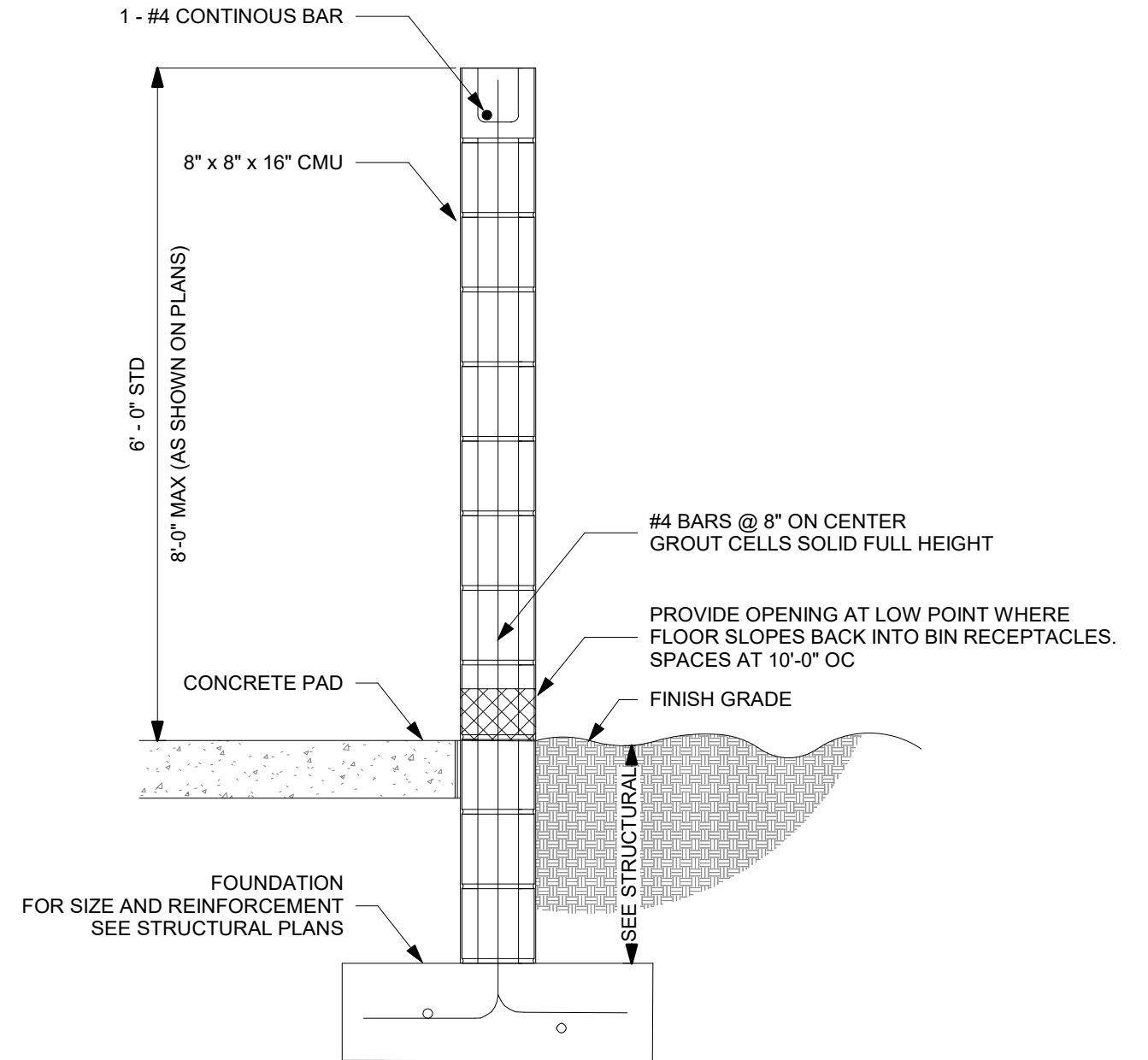
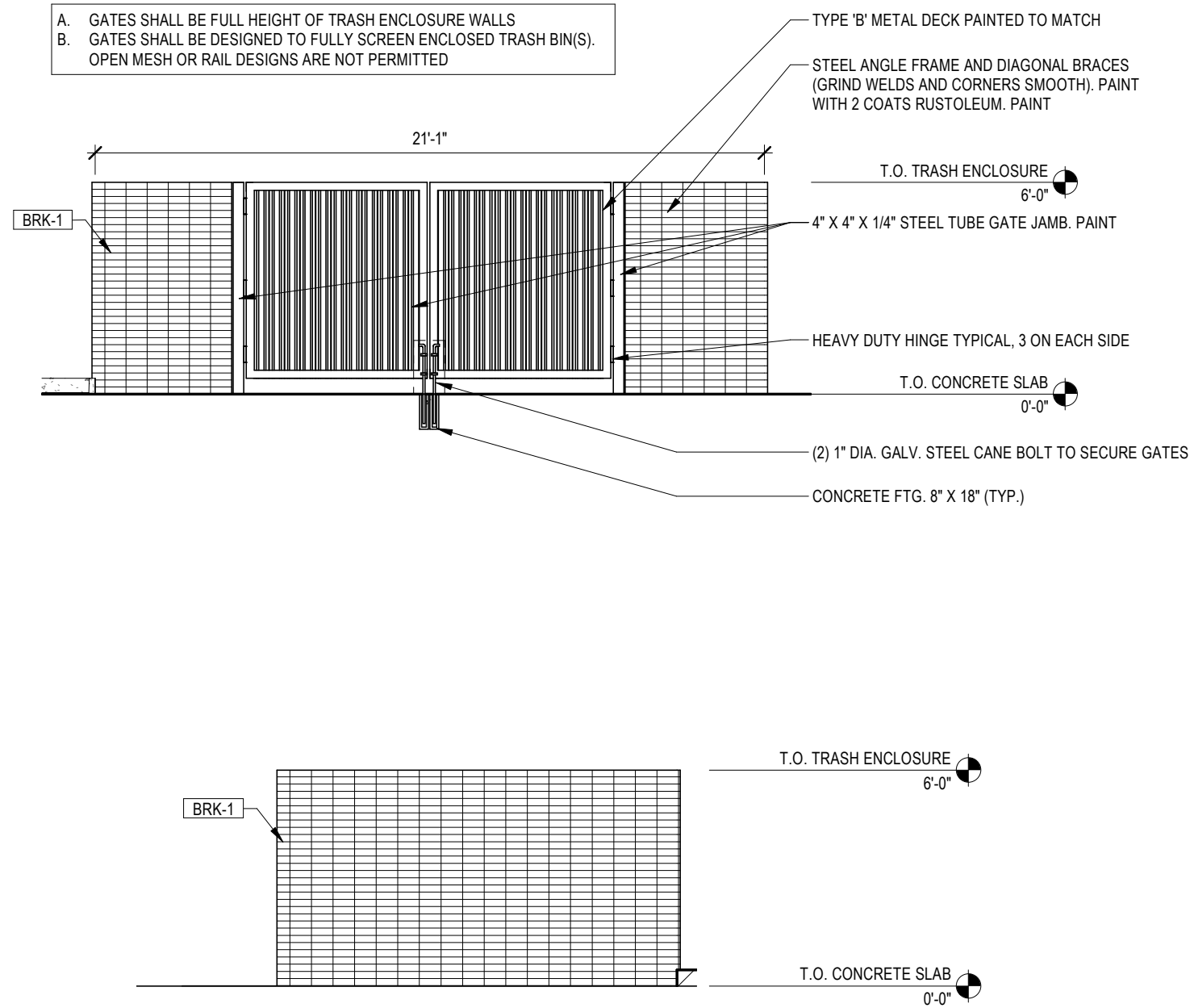
**UNDERSIDE OF CANOPY CEILING**  
Metalworks Linear Ceiling Grid  
Manufacturer: Armstrong  
Size: 4" x 96"  
Color: Effects Oak



**P-2 | EXTERIOR BACK OF HOUSE DOOR**  
Paint  
Manufacturer: Sherwin Williams  
Color: Grey Matters SW7066

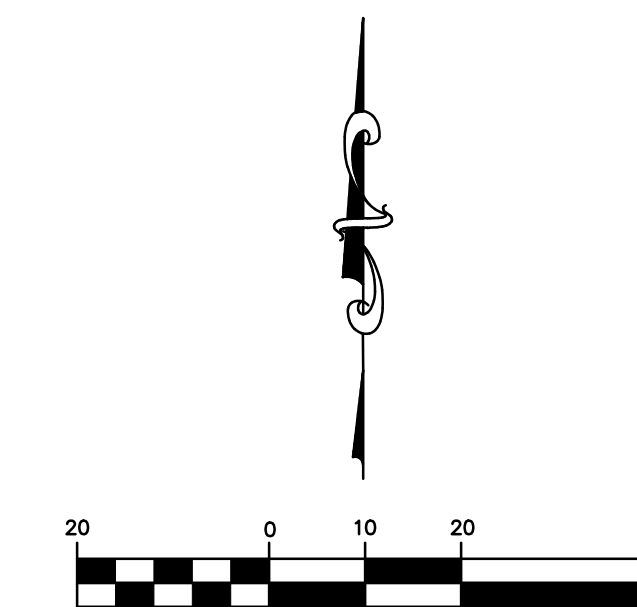
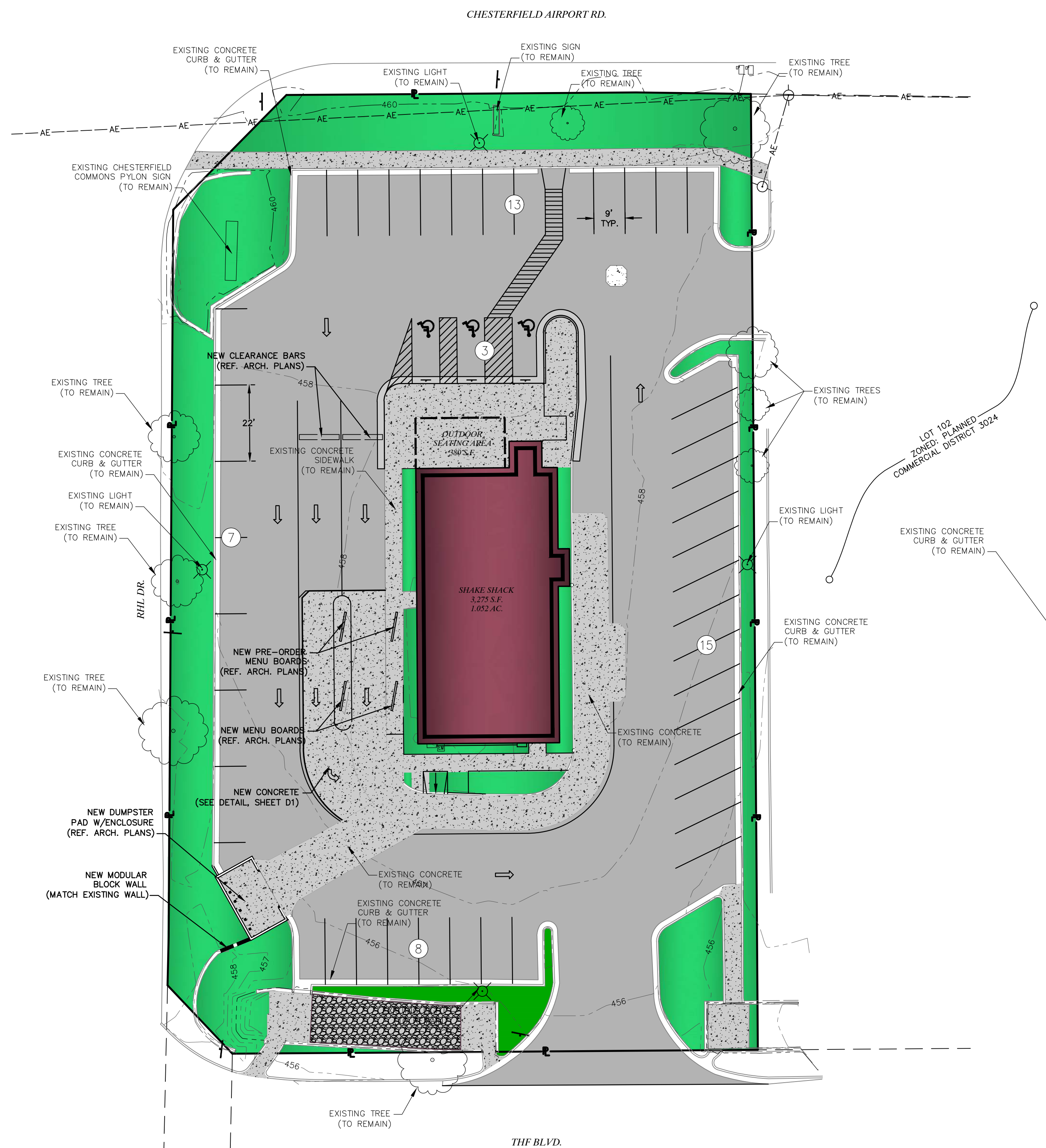


# Trash Enclosure Details



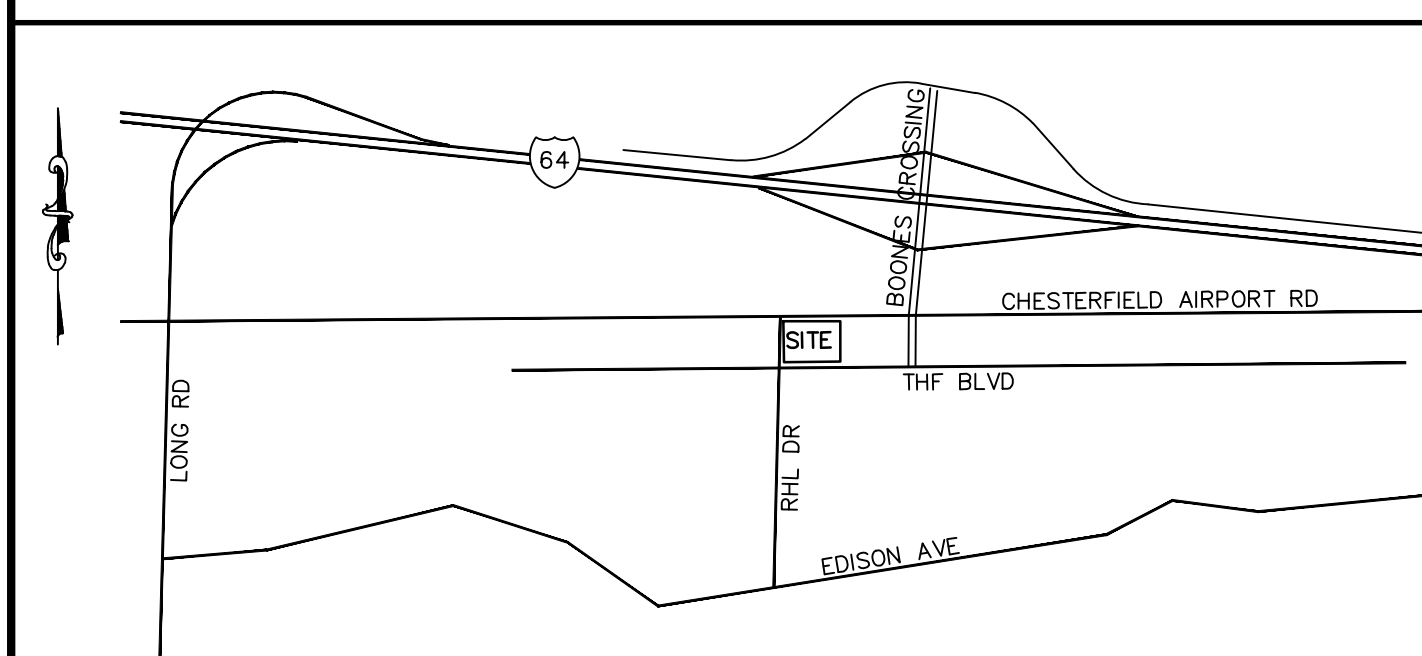
③ WALL SECTION  
NTS

# SITE PLAN



APRIL, 2021

LEGEND	
EXISTING	PROPOSED
	PROPERTY LINE
	RIGHT-OF-WAY
	LOT LINE
	BUILDING SETBACK
	AERIAL ELECTRIC
	UTILITY POLE / GUY WIRE
	SANITARY MANHOLE
	INLET
	GRATED INLET
	GAS METER
	FIRE HYDRANTS
	WATER VALVE
	WATER METER
	TREE
	FENCE
	LIGHT
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT



LOCATION MAP  
NO SCALE

**Bergmeyer**

BOS  
51 Sleeper St.  
Salem, MA 02210  
817.542.1025  
www.bergmeyer.com

**COCHRAN**

6301 E. Independence Dr.  
Union, Missouri 63094  
Civil Engineering 636-584-0540 (fax)  
Land Surveying 636-584-0512 (fax)  
Architecture mel@cochranning.com  
Site Development  
General Consulting  
Master Planning

SEAL SIGNATURE:

NO.	BY	DATE	DESCRIPTION

**SHAKE SHACK**

SHAKE SHACK -  
CHESTERFIELD MO

17312 CHESTERFIELD AIRPORT ROAD  
CHESTERFIELD, MO 63005  
SHACK #1352

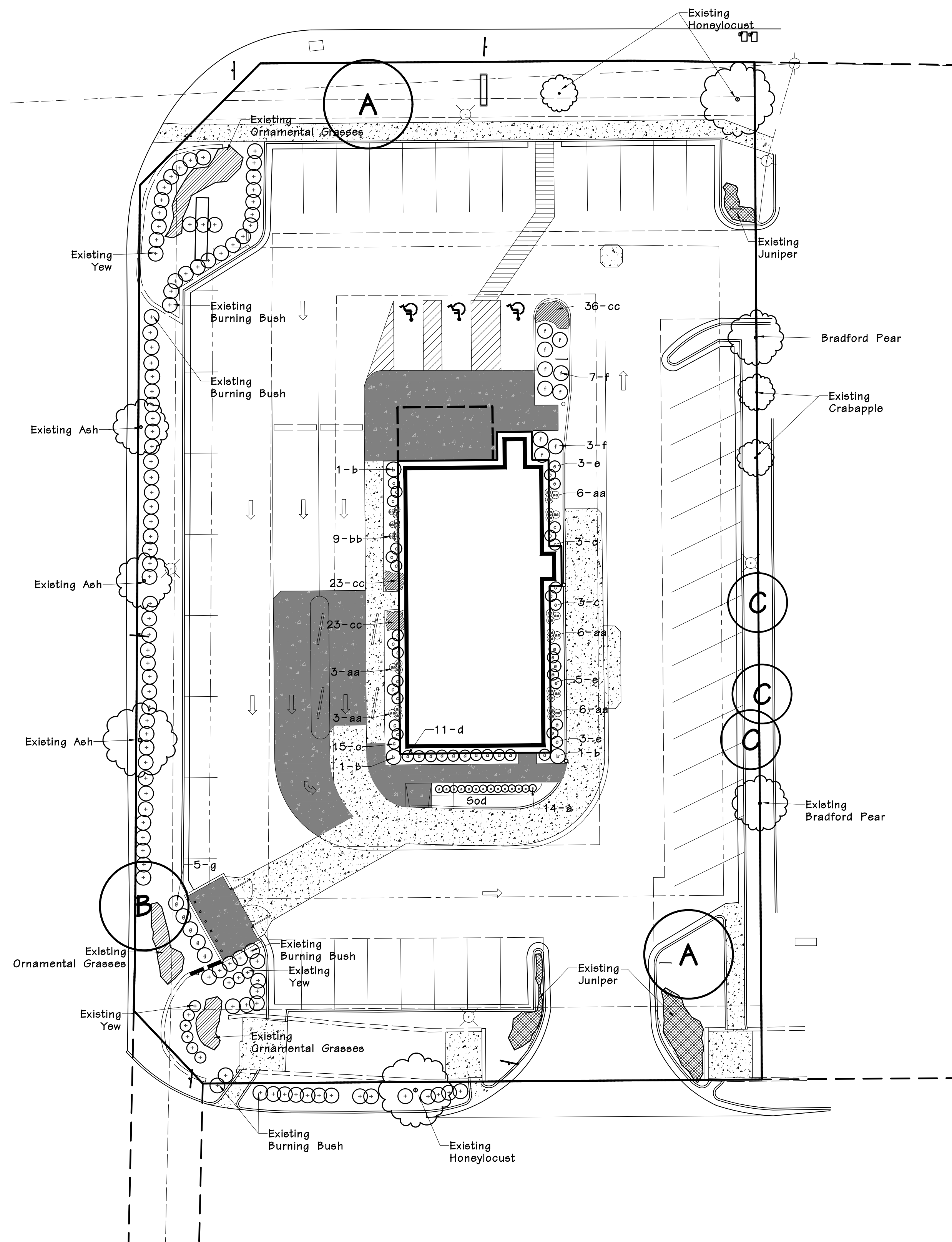
SITE  
PLAN

DRAWN BY: B48

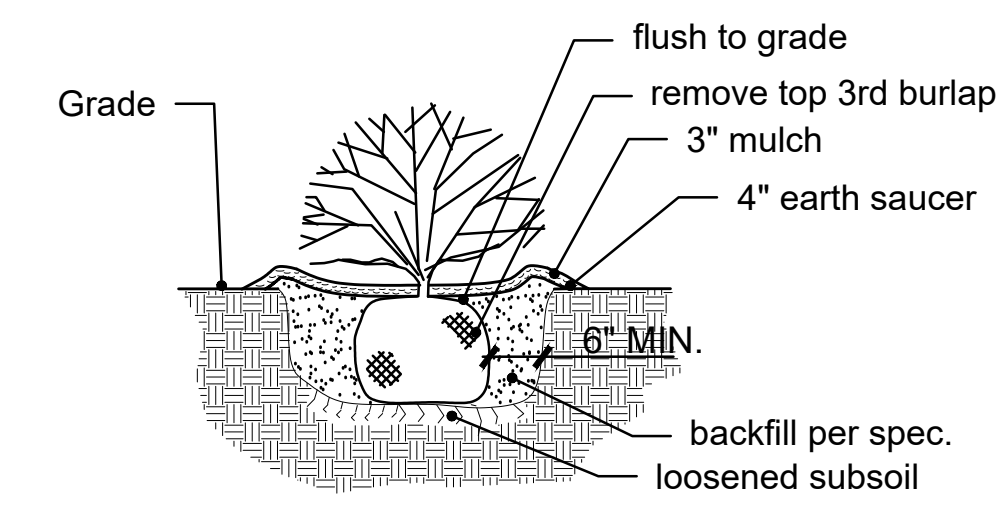
CHECKED BY:

JOB NO: 21-8516



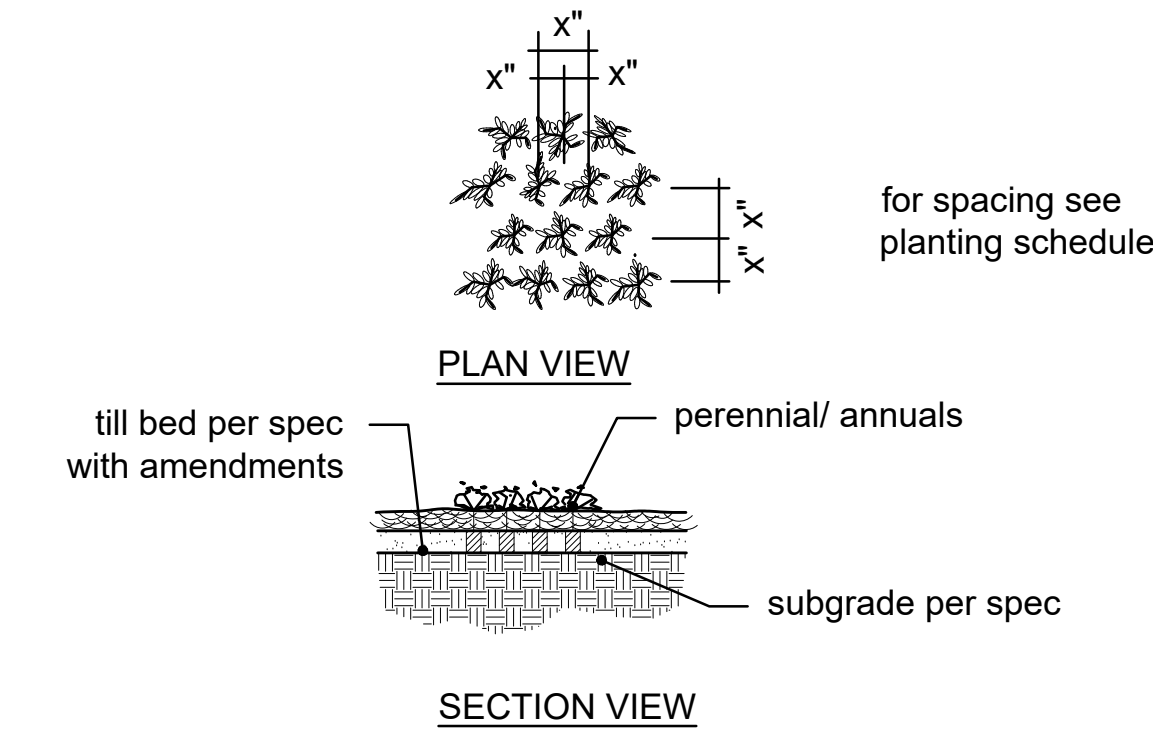


Existing/Proposed Landscape Plan  
SCALE 1"=20'



SCARIFY ROOT BALL OF ALL CONTAINER STOCK

TYPICAL SHRUB PLANTING



TYPICAL PERENNIAL PLANTING

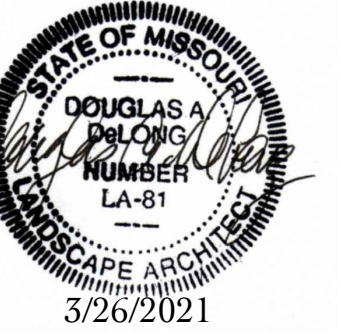
PLANTING SCHEDULE					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
A	2	<i>Gleditsia triacanthos</i> 'Skyline'	Skyline Honeylocust	2.5"	
B	1	<i>Quercus imbricaria</i>	Shingle Oak	2.5"	
C	3	<i>Malus</i> 'Sugartyme'	Sugartyme Crab	2.5"	
a	14	<i>Buxus microphylla</i> 'Wintergreen'	Wintergreen Boxwood	15-18"	2' OC
b	3	<i>Buxus</i> 'Green Mountain'	Green Mountain Boxwood	3-4'	as shown
c	21	<i>Spiraea japonica</i> 'Galen'	Double Play Artlet Spiraea	18-24"	2.5" OC
d	11	<i>Berberis thunbergii</i> 'Rose Glow'	Rose Glow Barberry	18-24"	2.5" OC
e	11	<i>Cornus stolonifera</i> 'Farrow'	Arctic Fire Dogwood	18-24"	3" OC
f	10	<i>Juniperus sabina</i> 'Buffalo'	Buffalo Juniper	18-24"	5" OC
g	5	<i>Euonymus alatus</i> 'Compactus'	Dwarf Burning Bush	24-30"	4" OC
aa	24	<i>Calamagrostis</i> x a. 'Karl Foerster'	Karl Foerster Grass	2 gal	2' OC
bb	9	<i>Carex flacca</i> 'Blue Zinger'	Blue Zinger Sedge	1 gal	18" OC
cc	46	<i>Nepeta racemosa</i> 'Blue Wonder'	Blue Wonder Catmint	4" pot	12" OC

CONSULTANTS:

**DeLong**  
Landscape Architecture, LLC  
7620 West Bruno Ave  
St. Louis, MO. 63117  
(314) 346-4856  
delong.la@gmail.com

Missouri State Certificate of Authority: #2013000145

SEAL/SIGNATURE:



NO.	BY	DATE	DESCRIPTION



SHAKE SHACK -  
CHESTERFIELD MO

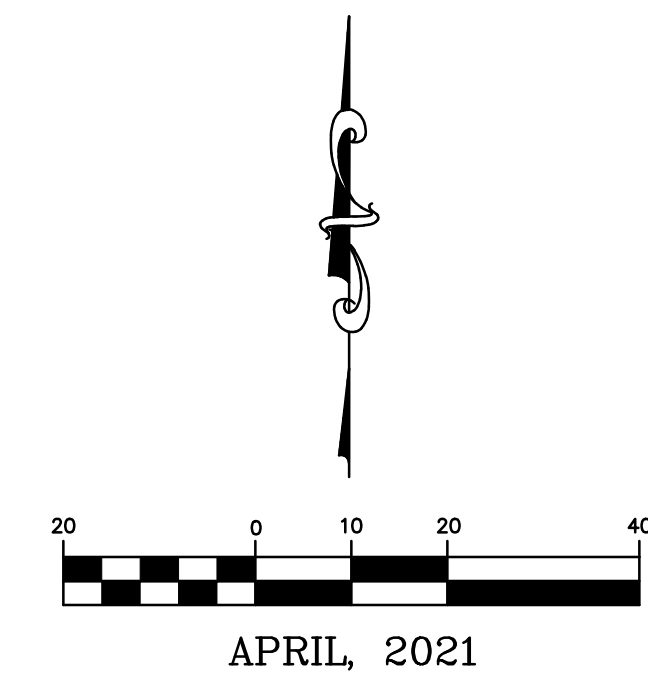
17312 CHESTERFIELD AIRPORT ROAD  
CHESTERFIELD, MO 63005  
SHACK #1352

LANDSCAPE  
PLAN

DRAWN BY: DAD  
CHECKED BY: DAD  
JOB NO: 192.002

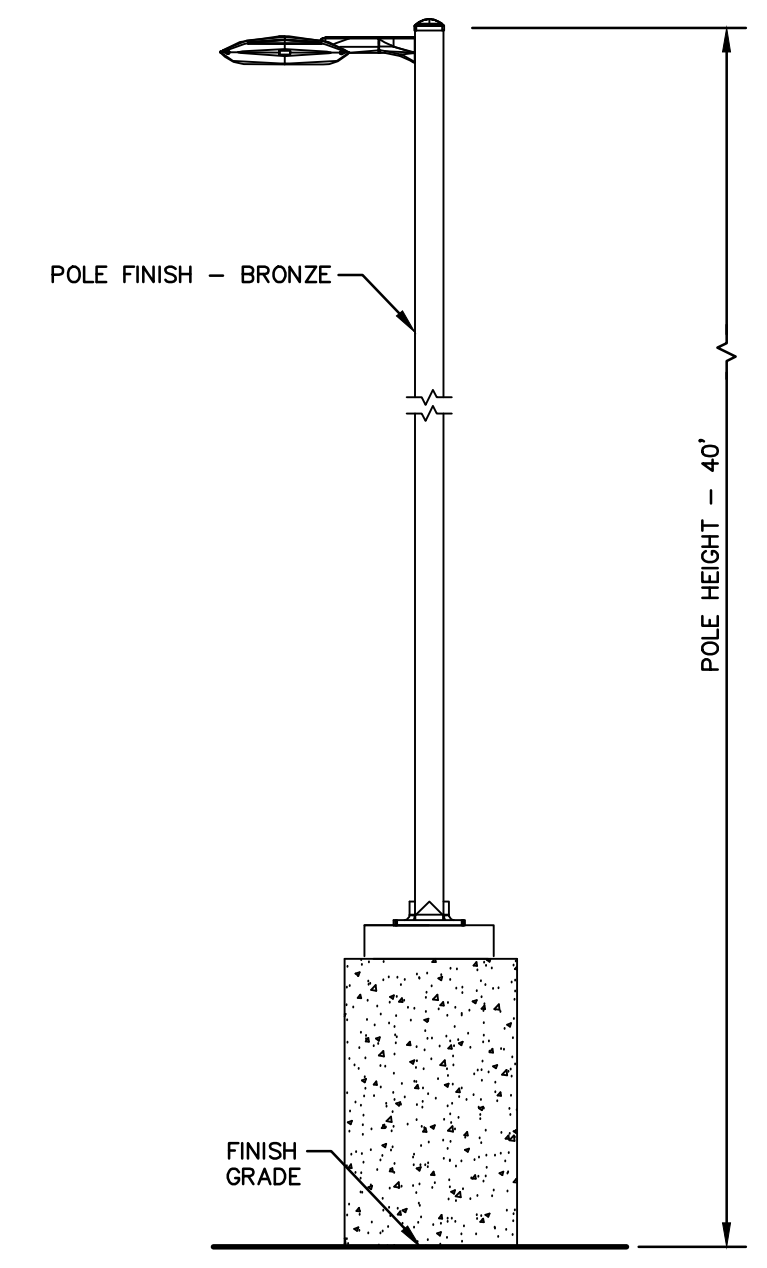
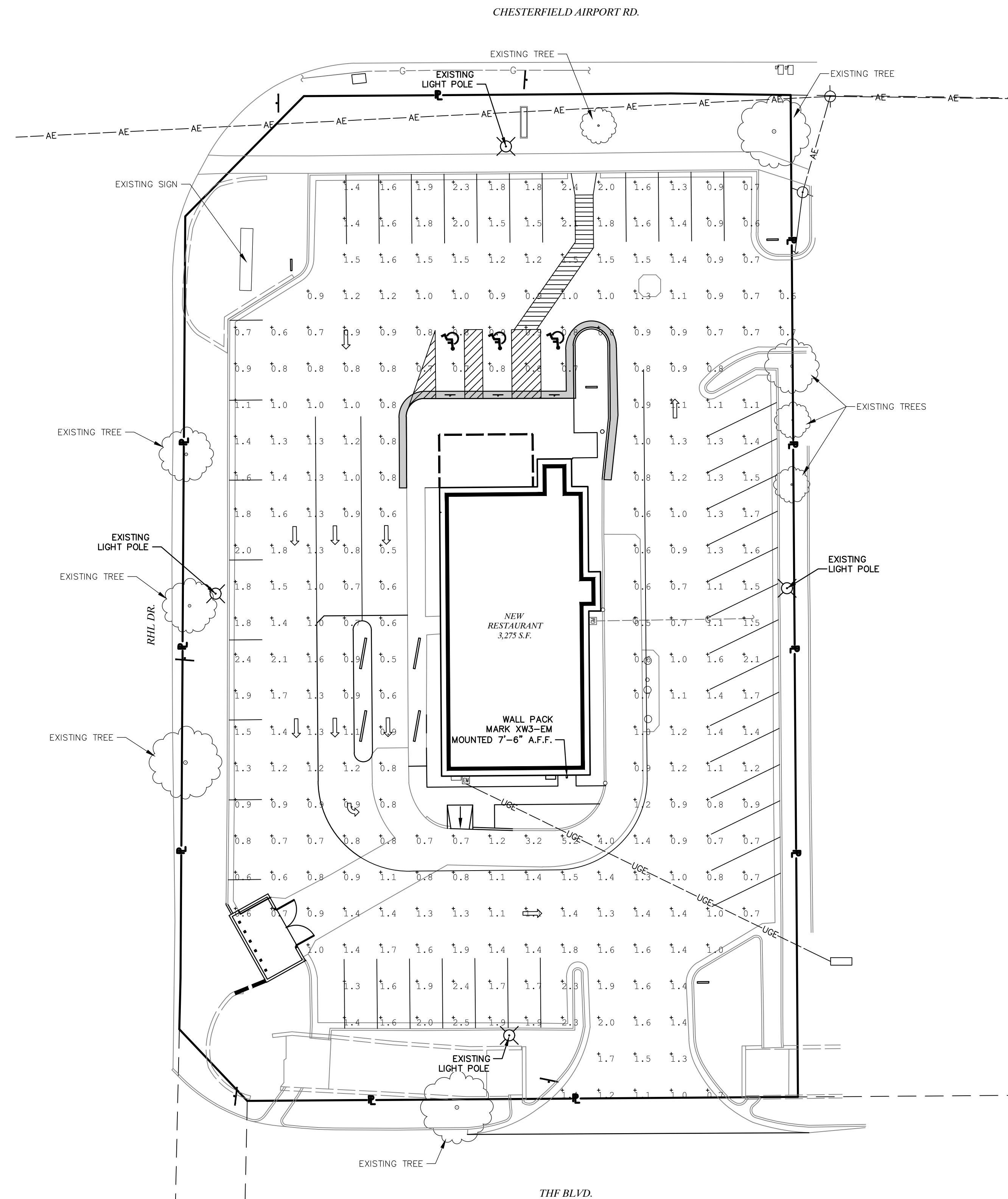


# SITE LIGHTING PLAN



APRIL, 2021

LEGEND	
EXISTING	PROPOSED
	PROPERTY LINE
	RIGHT-OF-WAY
	LOT LINE
	EASEMENT
	AERIAL ELECTRIC
	UTILITY POLE / GUY WIRE
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE
	UNDERGROUND FIBER OPTIC
	SANITARY SOWER
	SANITARY MANHOLE
	STORM SOWER
	GAS LINE
	WATER LINE
	FIRE HYDRANTS
	WATER VALVE
	WATER METER
	TREE
	LIGHT
	DOWNSPOUT
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT

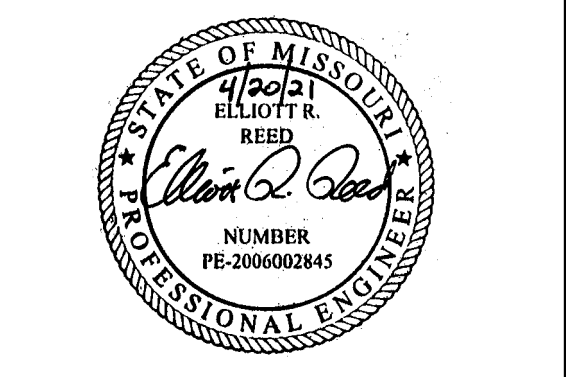


LIGHT POLE DETAIL  
NO SCALE

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
CalcPts	Illuminance	Fc	1.23	5.2	0.5	2.46

**Bergmeyer**  
 LA 800 South Figueroa  
 BOS 51 Sleeper St.  
 617.542.1025  
 www.bergmeyer.com

**COCHRAN**  
 630 E. Independence Dr.  
 Union, Missouri 63084  
 636-584-0540 (tel.)  
 636-584-0512 (fax)  
 me@cochranning.com



NO.	BY	DATE	DESCRIPTION



SHAKE SHACK -  
CHESTERFIELD MO

17312 CHESTERFIELD AIRPORT ROAD  
CHESTERFIELD, MO 63005  
SHACK #1352

SITE LIGHTING  
PLAN

DRAWN BY: B48  
 CHECKED BY: ERR  
 JOB NO: 21-8516

C2



# Type E4 (Approved Outdoor)

## RHLED LED Outdoor Polycarbonate / Die-Cast Remote Head



<b>Project:</b>	Shake Shack Chesterfield
<b>Type:</b>	E4
<b>Catalog #:</b>	RHLED-2-WP-MV-B

Location: Above double doors at vestibule and above the single door in the storefront on the side of the building



### ILLUMINATION

- Long lasting, efficient, ultra bright white LED lamp heads.
- 1.0 watt (8 LEDs x 0.125 watt) per head.
- High performance chrome-plated metalized reflector and plastic lens for optimal light distribution.
- Adjustable LED lamp heads provide optimal center-to-center spacing.
- Optional high lumen heads are 1.5 watts (12 LEDs x 0.125 watt per head) and provide increased center-to-center spacing.

### ELECTRICAL

- Powered from low voltage power source with low voltage wiring (not provided).

### MOUNTING

- Universal mounting adapter plate included. Mounts to single-gang switch box.
- Distance of maximum run is determined by system voltage, wire gauge and total maximum wattage on the run.
- Suitable for wall or ceiling mount.

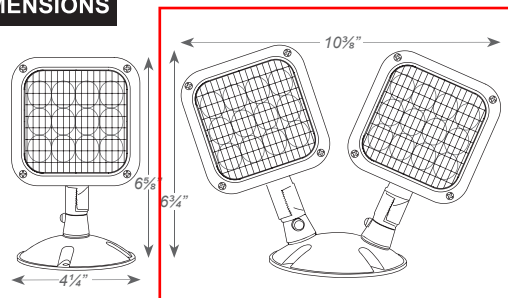
### HOUSING

- Available in both engineering grade, high-impact resistant polycarbonate or premium grade die-cast aluminum housing.
- Sealed and gasketed in standard gray or black finish.

### WARRANTY / LISTING

- Five year warranty.
- UL Listed with approved Best Lighting Products.
- Meets UL924, NFPA 101 Life Safety Code, NEC, OSHA, Local and State Codes.

### DIMENSIONS



### FIXTURE COMPATIBILITY LIST

Reference individual unit equipment specification sheets for remote load capacity availability.

BEST LIGHTING MODEL TYPE		
EZXTEU-RC*	LEDCXTEU-RC	CXTEU-RC*
CLPU	CEU-RC	CKXTEU-RC
LEDR5HO	R-5HO*	E-1-RC
R-16HO*	RMR-16-65/125	LEDTFX-2
TFX-2	DXR	CADXR
CAR	NYDXR	LEDCADXR
LESDXR627	CWLEZXTE-RC	RMLEDCXTE-RC
RMCLPU-RC	CALEDCXTE-RC	

\* SDT versions of the fixtures are not compatible with the RHLED heads.

### ORDERING INFORMATION

Sample Part Number: RHLED1-WP-MV

MODEL	No. of HEADS	OPTIONS	HOUSING	VOLTAGE	COLOR	LAMP TYPE <sup>1</sup>
RHLED	1 Single Head	(blank) For Standard Non-Self-Diagnostic Fixtures	PWP Thermoplastic	MV For Use With 3.6V, 6V, 9.6V & 12V DC Power Source	(blank) Gray	(blank) 8 LEDs 1W
	2 Double Head	SDT For Use With Fixtures With A Self-Diagnostic Option	WP Die-Cast		B Black	HL 12 LEDs 1.5W

<sup>1</sup> Wattage rating stated per head.

BEST LIGHTING PRODUCTS • 1213 ETNA PARKWAY, PATASKALA OH 43062 • 740-964-1198 • www.bestlighting.net

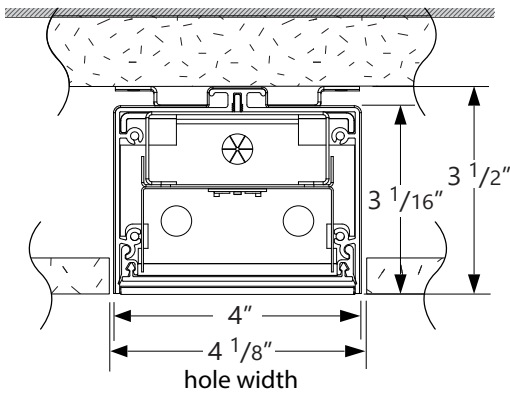
Specifications and dimensions subject to change without notice.

Manufacturer: BEST  
Catalog #: RHLED2-WP-MV-B





Project \_\_\_\_\_  
 Type \_\_\_\_\_  
 Notes \_\_\_\_\_



**PERFORMANCE PER LINEAR FOOT AT 3500K**

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
500 lm/ft	5.5 W/ft	91 lm/W
900 lm/ft	9.9 W/ft	91 lm/W

Please consult factory for custom lumen output and wattage.



**Ordering Guide**

WBRLLED		NOM.LUMENS/FT		CRI		COLOR TEMP.		S		LENGTH (FT)	
PRODUCT ID		500	900	80	90	27	30	35	40	S	
Recessed LED		500 lm/ft - Min.	900 lm/ft - Max.	80 CRI	90 CR	2700 K	3000 K	3500 K	4000 K	satin lens	2' 2'
											3' 3'
											4' 4'
											5' 5'
											8' 8'
											S# system run

Outputs between listed min and max are available. Consult factory for outputs outside of the listed range.

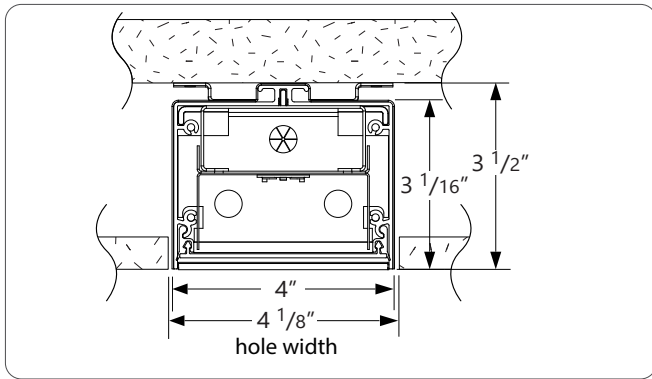
FINISH	VOLTAGE	DRIVER	CIRCUITS	MOUNTINGS
W white	120 120 V	DP dimming (0-10V) 1%	1 1 circuit	D drywall flangeless
C custom	277 277 V	LT(#) Lutron *	2 2 circuits	DF drywall flange
	347 347 V	BI bi-level dimming	+E(#) emergency circuit *	DS drywall spackle flange
	UNV universal	O(#) other **	+NL(#) night light circuit *	
	DC low voltage*	POE(#) POE drivers*	+GTD(#) generator transfer device *	

\* Only available with POE drivers.  
 \*\* Operating up to -20°C; Specify system  
 \*\* Please consult factory; see page 2  
 \* Specify quantity

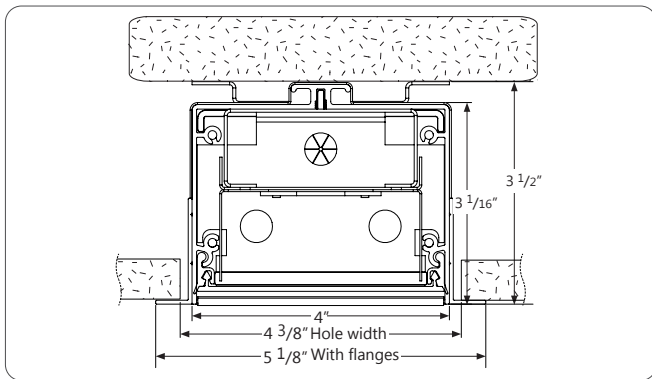
BATTERY (OPTIONAL)	OTHER (OPTIONAL)	IC CONTROLS (OPTIONAL)	CUSTOM (OPTIONAL)
B# battery pack (integral)	F fuse * EF end feed **	OS# occupancy sensor EN Enlighted integral WC# wireless control dimming	C custom N natatorium finish

Not available with 347V Please consult factory  
 \* Requires 120V or 277V;  
 \*\* See page 3 for more details.  
 See integrated controls guide for further details  
 Please consult factory  
 Please specify

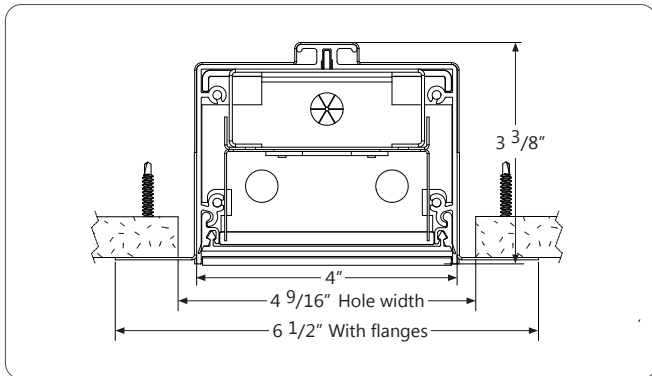
● **HORIZONTAL RECESSED MOUNTING OPTIONS**



**D DRYWALL FLANGELESS**



**DF DRYWALL FLANGE**



**DS DRYWALL SPACKLE FLANGE**

● **LED SYSTEM**

- CRI** Minimum 80 or 90 color rendering index.
- CCT** Choice of 2700K, 3000K, 3500K and 4000K color temperature with a great color consistency (within 3-step MacAdam ellipse). Both within fixture and fixture to fixture.
- LED life** Minimum 50,000h with 85% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
- Thermal Management** Aluminum housing acting as the heat sink to maximize life.

● **OTHER MOUNTING OPTIONS**

WET BEAM 4 LED is available with, pendant, surface, wall mounted options and recessed vertical.

● **CONSTRUCTION**

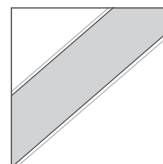
- Housing** Extruded aluminum (0.062" nominal)  
Up to 70% recycled content
- End Cap** Die cast zinc (0.070" nominal)
- Interior Brackets** Die formed sheet steel (16 gauge)
- Gaskets** Moulded elastomer (0.100" nominal)
- Lens Gaskets** Extruded elastomer (0.045" nominal)
- Satin Lens** Extruded Polycarbonate

● **ELECTRICAL**

- Lutron driver\*** LDE1 - Hi-lume 1% EcoSystem with Soft-on, Fade-to-Black  
LDE5 - 5-Series EcoSystem  
LTEA - Hi-lume 1% 2-wire (120V forward phase only)  
\*Consult factory
- Other drivers\*\*** DALI - Digital Addressable Lighting Interface  
DMX - Digital Multiplex  
LV - line voltage - Advance Mark 10  
Xitanium SR - For wireless sensor
- Power over Ethernet POE drivers\*** MOLEX  
IGOR  
O - Other (Consult factory)  
\*Consult factory
- Emergency** Integral emergency battery pack or emergency circuit optional.
- Input Voltage** 120V, 277V, 347V, UNV.
- Flex Whip** Shipped in a separate box for contractors to install

**i** Incorporating these components may have limitations or affect the length of the luminaire. Please contact factory for more details.

● **OPTICS**



S satin lens

**SATIN LENS**  
Extruded Polycarbonate

● **WEIGHT**

- Recessed Horizontal 4 ft** 12.8 lbs / 5.8 kg
- Recessed Horizontal 8 ft** 24.5 lbs / 11.1 kg

● **GASKETTED FIXTURE**

With its gasketed end cap and lens the Wet BEAM 4 LED is made for wet locations, and is ideal for exterior soffits and canopies of malls, hospitals and other institutions.

**i** Row configuration, specification sheets and mounting spacing guides are available for download at: [www.axislighting.com](http://www.axislighting.com)

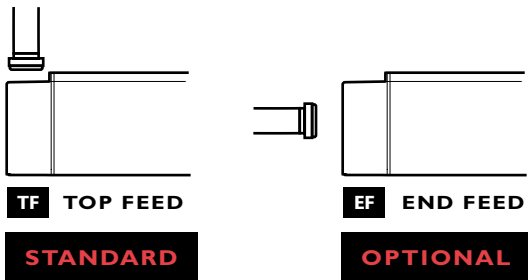
● **WARRANTY**

Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

● **FINISH**

Aluminum paint, powder coated and custom finishes are also available.

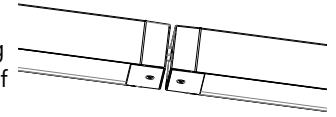
● **POWER FEED**



\* Not available with 347 V.

● **JOINER SYSTEM**

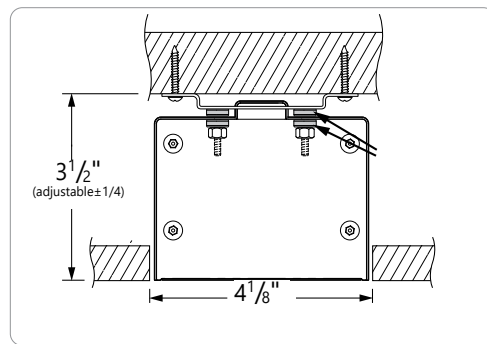
WET BEAM4 LED modular system consists of smaller modules joined and gasketed together allowing for system runs in lengths of 4' and 8' as well as custom lengths up to 12'.




\* For continuous rows allow 2" for connectors between each fixture.

● **END VIEW**

For D and DF mounting.

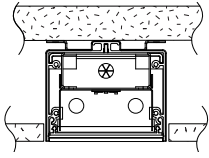


● **APPROVALS**

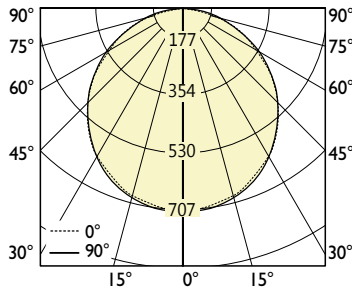
Certified wet locations to UL and CSA standards 

● PHOTOMETRIC DATA

500 lm/ft



PHOTOMETRIC CURVE



**Luminaire Lumens: 500 lm/ft**  
**Input Watts: 5.5 W/ft**  
**Efficacy: 91 lm/W**  
 IES FILE: WBRLED-500-80-35-S.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	704	704	704	704	704
5	697	701	700	703	706
15	672	677	677	679	682
25	623	626	627	628	631
35	552	555	555	554	555
45	465	466	466	465	465
55	363	365	364	362	361
65	249	250	249	246	244
75	129	130	126	123	121
85	29	25	20	17	16
90	0	0	0	0	0

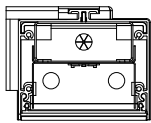
ZONAL LUMENS

Zone	Lumens
0	
0-10	67
10-20	191
20-30	289
30-40	347
40-50	359
50-60	324
60-70	245
70-80	133
80-90	28
90	

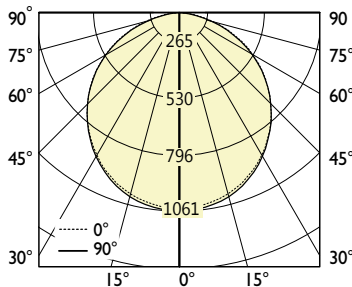
LUMINANCE DATA (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	5567	5579	5567
55	5357	5372	5328
65	4987	4987	4887
75	4219	4121	3957
85	2817	1942	1554

750 lm/ft



PHOTOMETRIC CURVE



**Luminaire Lumens: 750 lm/ft**  
**Input Watts: 8.3 W/ft**  
**Efficacy: 90 lm/W**  
 IES FILE: WBRLED-750-80-35-S.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1056	1056	1056	1056	1056
5	1046	1052	1050	1055	1059
15	1008	1016	1016	1019	1023
25	935	939	941	942	947
35	828	833	833	831	833
45	698	699	699	698	698
55	545	548	546	543	542
65	374	375	374	369	366
75	194	195	189	185	182
85	44	38	30	26	24
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	100
10-20	287
20-30	433
30-40	520
40-50	539
50-60	486
60-70	368
70-80	200
80-90	43
90	

LUMINANCE DATA (cd/m<sup>2</sup>)

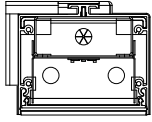
Vertical Angle	Horizontal Angles		
	0	45	90
45	8350	8368	8350
55	8036	8058	7992
65	7481	7481	7331
75	6329	6181	5936
85	4225	2914	2331

**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)

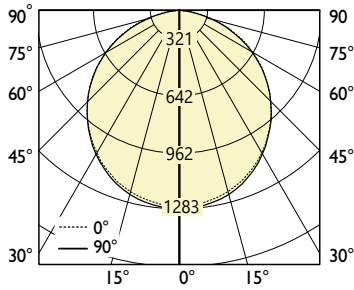


● PHOTOMETRIC DATA

900 lm/ft



PHOTOMETRIC CURVE



**Luminaire Lumens: 900 lm/ft**  
**Input Watts: 9.9 W/ft**  
**Efficacy: 91 lm/W**  
 IES FILE: WBRLED-900-80-35-S.IES

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1278	1278	1278	1278	1278
5	1265	1272	1271	1276	1281
15	1220	1229	1229	1232	1238
25	1131	1136	1138	1140	1145
35	1002	1007	1007	1006	1007
45	844	846	846	844	844
55	659	662	661	657	655
65	452	454	452	446	443
75	234	236	229	223	220
85	53	45	36	31	29
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	121
10-20	347
20-30	524
30-40	629
40-50	652
50-60	589
60-70	445
70-80	242
80-90	52
90	

LUMINANCE DATA (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angles		
	0	45	90
45	10104	10125	10104
55	9723	9750	9670
65	9052	9052	8870
75	7658	7480	7183
85	5112	3526	2821

**i** All IES files are available for download at: [www.axislighting.com](http://www.axislighting.com)

# TYPE R2- IC4AL 07LN 27K 90 CRI FL 120FRPC

G1.7.71



Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

## 4" IC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

IC4AL (07LM) RECESSED HOUSING



## DOWNLIGHT TRIMS



### PRODUCT DESCRIPTION

Patent pending dedicated LED, Air-Loc® sealed new construction housing with integral internally adjustable light engine • Double wall, shallow housing construction • Can be completely covered with insulation and installs in 2 x 6 construction • Fully sealed housing stops infiltration and exfiltration of air, reducing heating and cooling costs without the use of additional gaskets • LED housing is designed to provide 50,000 hours of life • 5 year limited warranty on LED components.

### ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury, RoHS compliant
- Comparable light output to 65W incandescent

### PRODUCT SPECIFICATIONS

**LED Light Engine** LED array attached to cast aluminum sliding heatsink integrated directly with housing provides superior heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to inner housing assembly and incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4000K color temperatures available • 90 CRI minimum.

**Optics** Three field interchangeable, TIR optics available in 18°, 30° and 40° beam angles • Module can accommodate one 2-inch diameter beam control lens or filter.

**Aesthetic Trim Selections** Aluminum downlight reflector in clear, black, pewter, white, haze and wheat haze • Shadow free, knife edge design blends seamlessly into ceiling.

**LED Driver** Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • For a list of compatible dimmers, see [JUNOICLED-DIM](#).

**Life** Rated for 50,000 hours at 70% lumen maintenance.

**Labels** ENERGY STAR® Certified • Certified to the high efficacy requirements of California T24 JA8-2016 • UL listed for U.S. and Canada for through-branch wiring, damp locations • Union made • UL and cUL.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Specifications subject to change without notice.

### HOUSING FEATURES

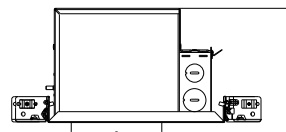
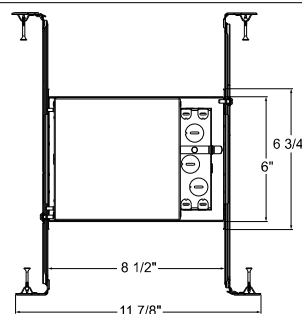
**Housing** Designed for use in IC (insulated ceiling) or non-IC construction • Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1 1/2" ceiling thickness.

**Junction Box** Pre-wired junction box provided with (6) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 4 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.

**Mounting Frame** 22-gauge die-formed galvanized steel mounting frame • Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

**Real Nail 3 Bar Hangers** Patented (US Patent D552,969) Real Nail® 3 bar hangers: telescoping system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings.

### DIMENSIONS



4 1/2" CEILING CUTOUT

### ELECTRICAL DATA

#### Dedicated 120V Only Driver Option (120)

120V	
Input Power	10.5W (+/-5%)
Input Current	0.10A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (Residential)
Minimum starting temp	-25°C (-13°F)

#### Universal Voltage Driver (MVOLT ZT)

120V		277V	
Input Power	10.0W (+/-5%)	10.0W (+/-5%)	
Input Current	0.09A	0.04A	
Frequency	50/60Hz	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15, Class A (Commercial)	FCC Title 47 CFR, Part 15, Class A (Commercial)	
Minimum starting temp	-20°C (-4°F)	-20°C (-4°F)	

#### Lutron Hi-Lume® LED Driver (MVOLT ECOS3)

120V		277V	
Input Power	11.1W (+/-5%)	11.3W (+/-5%)	
Input Current	0.10A	0.05A	
Frequency	50/60Hz	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15, Class A (Commercial)	FCC Title 47 CFR, Part 15, Class A (Commercial)	
Minimum starting temp	0°C (32°F)	0°C (32°F)	



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Manufacturer: ACUITY

Catalog #: IC4AL-07LM-27K-90CRI-FL-120-FRPC / 42L PTSC / DIFF 200



# TYPE R2- IC4AL 07LN 27K 90 CRI FL 120FRPC

G1.7.71

## 4" IC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

### IC4AL (07M) RECESSED HOUSING DOWNLIGHT TRIMS

**ORDERING INFORMATION** Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC4AL 07LM 27K 90CRI FL 120 FRPC

Series	Lumens	Color Temperature	CRI	Distribution	Voltage	Driver
IC4AL 4" LED Internally Adjustable New Const. IC Downlight	07LM 700 Nominal Lumens	27K 2700K	90CRI 90+ CRI	FL Flood	120 120V	ECOS3 Lumen Hi - Lume A Series, 3-wire fluorescent controls & Lutron Ecosystem  FRPC Forward/ Reverse Phase Cut ZT 0 - 10V Dimming Driver
		30K 3000K		NFL Narrow Flood	MVOLT Multi-Volt (120-277V)	
		35K 3500K		SP Spot		
		40K 4000K				

Notes: 120 must be ordered with FRPC. MVOLT can be ordered with either ZT or ECOS3

#### Trim/Description



<b>42L BWH</b>	4" Downlight Cone Trim - Black Alzak® Cone, White Trim Ring
<b>42L CWH</b>	4" Downlight Cone Trim - Clear Alzak® Cone, White Trim Ring
<b>42L HZWH</b>	4" Downlight Cone Trim - Haze Cone, White Trim Ring
<b>42L PTSC</b>	4" Downlight Cone Trim - Pewter Alzak® Cone, Satin Chrome Trim Ring
<b>42L WHZABZ</b>	4" Downlight Cone Trim - Wheat Haze Cone, Classic Aged Bronze Trim Ring
<b>42L WHZWH</b>	4" Downlight Cone Trim - Wheat Haze Cone, White Trim Ring
<b>42L WWH</b>	4" Downlight Cone Trim - Glass White Cone, White Trim Ring

Trim Size: 5" O.D.

Alzak is a registered trademark of Alcoa Corp.

Note: In Canada when insulation is present, Type IC fixtures must be used.

#### Accessories (ordered separately)

Catalog Number	Description
<b>CGF 200 MPINK</b>	Color Glass Filter - 2" Diameter - Medium Pink
<b>CGF 200 WRED</b>	Color Glass Filter - 2" Diameter - Warm Red
<b>CGF 200 DLTBLUE</b>	Color Glass Filter - 2" Diameter - Daylight Blue
<b>CGF 200 MBLU</b>	Color Glass Filter - 2" Diameter - Medium Blue
<b>CGF 200 MAMB</b>	Color Glass Filter - 2" Diameter - Medium Amber
<b>CGF 200 MGRN</b>	Color Glass Filter - 2" Diameter - Medium Green
<b>DGF 200 DRED</b>	Dichroic Glass Filter - 2" Diameter Red
<b>DGF 200 MGRN</b>	Dichroic Glass Filter - 2" Diameter Medium Green
<b>DGF 200 MBLU</b>	Dichroic Glass Filter - 2" Diameter Medium Blue
<b>DGF 200 DYEL</b>	Dichroic Glass Filter - 2" Diameter Yellow (Dichroic)
<b>DGF 200 MAGEN</b>	Dichroic Glass Filter - 2" Diameter Magenta
<b>DGF 200 CYAN</b>	Dichroic Glass Filter - 2" Diameter Cyan
<b>DCCF 200 HL4250</b>	Dichroic Color Correction Filter - 2" Diameter - Halogen - to - Daylight
<b>DIFF 200</b>	Diffusion Glass Lens - 2" Diameter
<b>UVF 200</b>	UV Filter Lens - 2" Diameter
<b>HCLBL 200</b>	Hexagonal Cell Louver - Black - 2" Diameter
<b>LSPREAD 200</b>	Linear Spread Glass Lens - 2" Diameter
<b>PRISM 200</b>	Prismatic Glass Lens - 2" Diameter
<b>TIR2 SPT</b>	TIR Optic - Spot
<b>TIR2 NFLD</b>	TIR Optic - Narrow Flood
<b>TIR2 FLD</b>	TIR Optic - Flood



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2 of 3

Manufacturer: ACUITY

Catalog #: IC4AL-07LM-27K-90CRI-FL-120-FRPC / 42L PTSC / DIFF 200





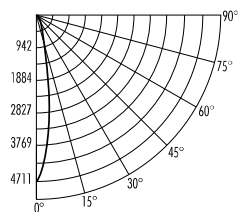
## 4" IC 700 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

### IC4AL (07M) RECESSED HOUSING DOWNLIGHT TRIMS

#### PHOTOMETRICS

##### PHOTOMETRIC REPORT

Test Report#: P109152801R  
Catalog No: IC4AL 07LM 35K 90CRI SP 120  
FRPC with 42L HZWH, Downlight Cone Haze  
Finish Trim and Spot Optic  
Luminaire Spacing Criteria: 0.30  
Luminaire LPW: 74



##### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	4711
5	3582
15	935
25	312
35	78
45	10
55	0
65	0
75	0
85	0
90	0

Multipliers:  
27K-0.93 35K-1.00  
30K-0.96 40K-1.03

##### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)  
Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	55	50	46
5.0'	35	32	29
6.0'	24	22	20
7.0'	20	18	16
8.0'	16	14	13
9.0'	12	11	10
10.0'	9	8	7

##### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	709	N/A	91.3
0-40°	765	N/A	98.5
0-60°	776	N/A	100.0
0-90°	776	N/A	100.0

##### INITIAL FOOTCANDLES

(One Unit, 10.5W, 16.9° Beam)

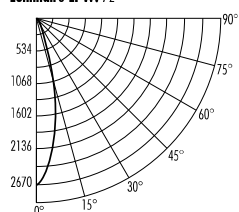
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	294.4	1.2
6	130.9	1.8
8	73.6	2.4
10	47.1	3.0

##### LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	2752
55	78
65	0
75	0
85	0

##### PHOTOMETRIC REPORT

Test Report#: P109152803R  
Catalog No: IC4AL 07LM 35K 90CRI NFL 120  
FRPC with 42L HZWH, Downlight Cone Haze  
Finish Trim and Narrow Flood Optic  
Luminaire Spacing Criteria: 0.46  
Luminaire LPW: 72



##### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2670
5	2462
15	1110
25	314
35	85
45	18
55	1
65	0
75	0
85	0
90	0

Multipliers:  
27K-0.93 35K-1.00  
30K-0.96 40K-1.03

##### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)  
Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	53	48	44
5.0'	34	30	28
6.0'	23	21	19
7.0'	19	17	16
8.0'	15	14	12
9.0'	11	10	10
10.0'	8	8	7

##### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	675	N/A	89.5
0-40°	737	N/A	97.7
0-60°	754	N/A	100.0
0-90°	754	N/A	100.0

##### INITIAL FOOTCANDLES

(One Unit, 10.5W, 27.0° Beam)

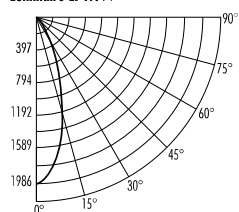
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	166.9	1.9
6	74.2	2.9
8	41.7	3.8
10	26.7	4.8

##### LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	4895
55	181
65	0
75	0
85	0

##### PHOTOMETRIC REPORT

Test Report#: P109152805R  
Catalog No: IC4AL 07LM 35K 90CRI FL 120  
FRPC with 42L HZWH, Downlight Cone Haze  
Finish Trim and Flood Optic  
Luminaire Spacing Criteria: 0.58  
Luminaire LPW: 79



##### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1986
5	1894
15	1206
25	489
35	116
45	22
55	0
65	0
75	0
85	0
90	0

Multipliers:  
27K-0.93 35K-1.00  
30K-0.96 40K-1.03

##### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)  
Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	58	52	47
5.0'	37	33	30
6.0'	26	23	21
7.0'	21	19	17
8.0'	17	15	13
9.0'	13	11	10
10.0'	9	8	7

##### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	727	N/A	87.5
0-40°	810	N/A	97.4
0-60°	831	N/A	100.0
0-90°	831	N/A	100.0

##### INITIAL FOOTCANDLES

(One Unit, 10.5W, 35.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	124.1	2.5
6	55.2	3.8
8	31.0	5.0
10	19.9	6.3

##### LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	5967
55	26
65	0
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

## DESCRIPTION

The patented Lumark Crosstour™ MAXX LED Wall Pack Series of luminaires provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

## SPECIFICATION FEATURES

### Construction

Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 41W and 79W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

### Optical

Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens assembly designed for maximum

forward throw. Solid state LED Crosstour luminaires are thermally optimized with two lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

### Electrical

LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 41W and 79W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available. Crosstour MAXX luminaires maintain greater than 90% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

### Emergency Egress

Optional integral cold weather

Catalog #		Type
Project		
Comments		Date
Prepared by		

battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

### Area and Site Pole Mounting

Optional extruded aluminum 6-1/2" arm features internal bolt guides for supplied twin support rods, allowing for easy positioning of the fixture during installation to pole. Supplied with round plate adapter plate. Optional tenon adapter fits 2-3/8" or 3-1/2" O.D. Tenon.

### Finish

Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

### Warranty

Five-year warranty.



## XTOR CROSSTOUR MAXX LED

APPLICATIONS:  
WALL / SURFACE  
INVERTED  
SITE LIGHTING



### CERTIFICATION DATA

UL/cUL Wet Location Listed  
LM79 / LM80 Compliant  
ROHS Compliant  
NOM Compliant Models  
3G Vibration Tested  
UL924 Listed (CBP Models)  
IP66 Rated  
DesignLights Consortium® Qualified\*

### TECHNICAL DATA

40°C Ambient Temperature  
External Supply Wiring 90°C Minimum

### EPA

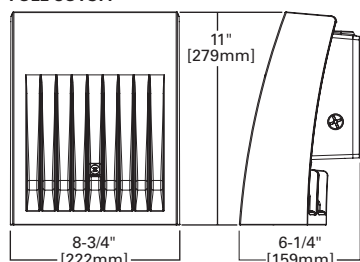
Effective Projected Area (Sq. Ft.):  
XTOR5A/XTOR9A=0.54  
With Pole Mount Arm=0.98

### SHIPPING DATA:

Approximate Net Weight:  
12-15 lbs. [5.4-6.8 kgs.]

## DIMENSIONS

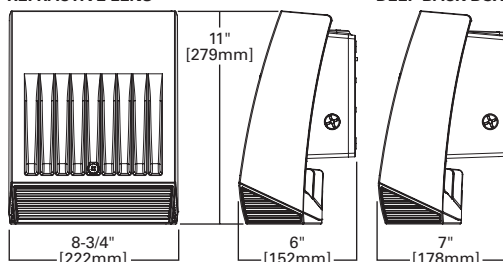
### FULL CUTOFF



### DEEP BACK BOX



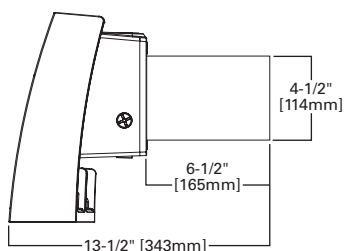
### REFRACTIVE LENS



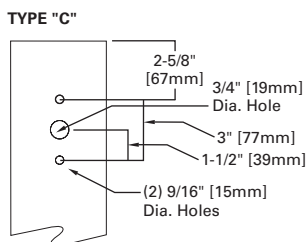
### DEEP BACK BOX



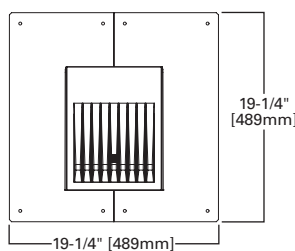
### OPTIONAL POLE MOUNT ARM



### ARM DRILLING



### ESCUTCHEON PLATES



POWER AND LUMENS BY FIXTURE MODEL

LED Information	XTOR5A	XTOR5ARL	XTOR5A-N	XTOR5ARL-N
Delivered Lumens	4,409	4,831	4,136	3,744
B.U.G. Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2
CCT (Kelvin)	5000K	5000K	3500K	3500K
CRI (Color Rendering Index)	65	65	70	70
Power Consumption (Watts)	41W	41W	43W	42W

LED Information	XTOR9A	XTOR9ARL	XTOR9A-N	XTOR9ARL-N
Delivered Lumens	7,079	7,367	6,468	6,036
B.U.G. Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2
CCT (Kelvin)	5000K	5000K	3500K	3500K
CRI (Color Rendering Index)	65	65	70	70
Power Consumption (Watts)	79W	82W	79W	81W

EGRESS Information	XTOR5A and XTOR9A Full Cutoff CBP Egress LED	XTOR5A and XTOR9A Refractive Lens CBP Egress LED
Delivered Lumens	509	468
B.U.G. Rating	N.A.	N.A.
CCT (Kelvin)	4000K	4000K
CRI (Color Rendering Index)	65	65
Power Consumption (Watts)	1.8W	1.8W

CURRENT DRAW

Voltage	Model Series			
	XTOR5A	XTOR9A	XTOR5A-CBP (Fixture/Battery)	XTOR9A-CBP (Fixture/Battery)
120V	0.35	0.67	0.60/0.25	0.92/0.25
208V	0.20	0.39	--	--
240V	0.18	0.34	--	--
277V	0.15	0.29	0.36/0.21	0.50/0.21
347V	0.14	0.26	--	--
480V	0.10	0.19	--	--

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
<b>XTOR5A Model</b>		
25°C	> 92%	> 290,000
40°C	> 91%	> 290,000
50°C	> 89%	> 250,000
<b>XTOR9A Model</b>		
25°C	> 91%	> 260,000
40°C	> 90%	> 230,000
50°C	> 82%	> 130,000



ORDERING INFORMATION

Sample Number: XTOR5A-N-WT-PC1

Series <sup>1</sup>	LED Kelvin Color	Housing Color	Options (Add as Suffix)
<b>Full Cutoff</b> XTOR5A=41W XTOR9A=79W  <b>Refractive Lens</b> XTOR5ARL=41W XTOR9ARL=79W	[Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K	[Blank]=Carbon Bronze (Standard) WT=Summit White	347V=347V <sup>2,3,4,5</sup> 480V=480V <sup>2,3,4,5,6</sup> PC1=Photocontrol 120V <sup>7</sup> PC2=Photocontrol 208-277V <sup>7,8</sup> DIM=0-10V Dimming Driver <sup>2</sup> PMA=Pole Mount Arm (C Drilling) with Round Adapter <sup>3</sup> HA=50°C High Ambient <sup>5</sup> MS-L20=Motion Sensor for ON/OFF Operation <sup>2,3,9,12</sup> MS/DIM-L20=Motion Sensor for Dimming Operation <sup>2,3,9,10,11,12</sup> CBP=Cold Weather Battery Pack <sup>2,3,10,13</sup>
<b>Accessories (Order Separately)</b>			
WG-XTORMX=Crosstour MAXX Wire Guard PB120V=Field Installed 120V Photocontrol PB277V BUTTON PC=Field Installed 208-277V Photocontrol <sup>8</sup> VA1040-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon <sup>14</sup> VA1041-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon <sup>14</sup> VA1042-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon <sup>14</sup> VA1043-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon <sup>14</sup> VA1044-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon <sup>14</sup> VA1045-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon <sup>14</sup>	VA1046-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon <sup>14</sup> VA1033-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon <sup>14</sup> VA1034-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon <sup>14</sup> VA1035-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon <sup>14</sup> VA1036-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon <sup>14</sup> VA1037-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon <sup>14</sup> VA1038-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon <sup>14</sup> VA1039-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon <sup>14</sup> EWP/XTORMX=Escutcheon Wall Plate, Carbon Bronze EWP/XTORMX-WT=Escutcheon Wall Plate, Summit White		

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 Not available with HA option. 3 Deep back box is standard for 347V, 480V, CBP, PMA, MS-L20 and MS/DIM-L20. 4 Not available with CBP option. 5 Thru-branch wiring not available with HA option or with 347V. 6 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 7 Not available with MS-L20 and MS/DIM-L20 options. 8 Use PC2 with 347V or 480V option for photocontrol. Factory wired to 208-277V lead. 9 For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'. 10 120V or 277V only. 11 Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included. 12 Includes integral photo sensor. 13 Operating temperatures -20°C to 25°C. 14 Replace XX with CB for carbon bronze or WT for summit white.

STOCK ORDERING INFORMATION

41W Series	79W Series
<b>Full Cutoff</b>	
XTOR5A=41W, 5000K, Carbon Bronze	XTOR9A=79W, 5000K, Carbon Bronze
XTOR5A-PC1=41W, 5000K, 120V PC, Carbon Bronze	XTOR9A-PC1=79W, 5000K, 120V PC, Carbon Bronze
XTOR5A-WT= 41W, 5000K, Summit White	XTOR9A-WT=79W, 5000K, Summit White
XTOR5A-N=41W, 3500K, Carbon Bronze	XTOR9A-PC2=79W, 5000K, 208-277V PC, Carbon Bronze
	XTOR9A-480V=79W, 5000K, 480V, Carbon Bronze
	XTOR9A-PMA=79W, 5000K, Pole Mount Arm, Carbon Bronze
<b>Refractive Lens</b>	
XTOR5ARL=41W, 5000K, Refractive Lens, Carbon Bronze	XTOR9ARL=79W, 5000K, Refractive Lens, Carbon Bronze
XTOR5ARL-PC1=41W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR9ARL-PC1=79W, 5000K, Refractive Lens, 120V PC, Carbon Bronze
XTOR5ARL-WT=41W, 5000K, Refractive Lens, Summit White	XTOR9ARL-WT=79W, 5000K, Refractive Lens, Summit White
XTOR5ARL-N=41W, 3500K, Refractive Lens, Carbon Bronze	XTOR9ARL-PC2=79W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze
	XTOR9ARL-480V=79W, 5000K, Refractive Lens, 480V, Carbon Bronze
	XTOR9ARL-PMA=79W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze

5-DAY QUICK SHIP ORDERING INFORMATION

41W Series	79W Series
<b>Full Cutoff</b>	
XTOR5A-CBP=41W, 5000K, Carbon Bronze, Cold Weather Battery Pack	XTOR9A-CBP=79W, 5000K, Carbon Bronze, Cold Weather Battery Pack
XTOR5A-480V=41W, 5000K, Carbon Bronze, 480V	XTOR9A-N=79W, 3500K, Carbon Bronze
XTOR5A-PC2=41W, 5000K, Carbon Bronze, 208-277V PC	
<b>Refractive Lens</b>	
XTOR5ARL-PC2=41W, Refractive Lens, 5000K, Carbon Bronze, 208-277V PC	XTOR9ARL-CBP=79W, Refractive Lens, 5000K, Carbon Bronze, Cold Weather Battery Pack
XTOR5ARL-CBP=41W, Refractive Lens, 5000K, Carbon Bronze, Cold Weather Battery Pack	XTOR9ARL-N=79W, Refractive Lens, 3500K, Carbon Bronze
XTOR5ARL-480V=41W, Refractive Lens, 5000K, Carbon Bronze, 480V	

## Architect's Statement of Design

**To:** Mr. Mike Knight  
City Planner  
City of Chesterfield  
**Date:** April 16th, 2021  
**Re:** Shake Shack Chesterfield  
17312 Chesterfield Airport Road  
Bergmeyer Project # 20087.00

To Whom it may concern,

As required by Chesterfield's Unified Development Code, the following is our Architect's Statement of Design responding to the Architectural review design standards as they apply to our project.

### General Requirements for Site Design

1. Site Relationships – The building site relationships will remain the same as the previously operating fast food restaurant
2. Circulation System and Access
  - a. Bike Circulation – New Bike Racks are proposed near our entry vestibule.
  - b. Pedestrian Circulation – Pedestrian circulation has remained the same as the previously approved site plan.
  - c. Vehicular circulation – The only adjustments we are making to the vehicular circulation is adding in a second drive thru lane for ordering.
  - d. Parking – Parking is essentially remaining the same as the previously approved site plan except that we are proposing parallel parking spots plan West to accommodate our two lane drive-thru
  - e. Pedestrian Orientation – Pedestrian orientation remains the same as the previously approved site plan.
3. Topography – Topography remains the same as the previously approved site plan
4. Retaining Walls – Retaining walls remain the same as the previously approved site plan

### General Requirements for Building Design

1. Scale
  - a. Building Scale – Elevations and renderings demonstrate that we've maintained a similar scale to the nearby Raising Canes and Red Robin. We are maintaining the existing building and only raising the parapet by 2'-0" to help shield rooftop equipment.
  - b. Human Scale – We demonstrate human scale with our canopy above our main entry / patio, which helps lead you into the building.
  - c. Generic Scale – We do not have any directly adjacent buildings / structures, but demonstrate a similar scale to the neighboring restaurants.
2. Design
  - a. Our exterior facades use the same 3 materials to create a sense of unity throughout. We have incorporated Acme Brick in Mesa Red to use a similar material that connects us to the surrounding buildings.
  - b. We are maintaining a similar site layout as existing to be able to maintain a certain number of parking spots.
  - c. The architecture of the building does not use the building as advertising.

- d. We are maintaining the existing structure of the building but making it shorter in length to allow for a more welcoming presence in the front with an added outdoor, covered patio. The storefront will be updated and brought down to a 1'-0" high sill to allow for more natural light into the space and create a more welcoming dining experience. The walls will be re clad with a dark grey tile base, and a white brick tile. In our back, we interrupt the white brick tile with a large format grey tile, the same that is used as our base. We feel that these materials will provide a much needed refresh to the existing building and bring life to the site.
  - e. We will have a mural on one of our interior walls that faces the large span of storefront. The intent is for it to be visible while people are queuing in the drive-thru lanes.
  - f. The design of our building will call for more sustainable materials within our specifications. We also will improve on the energy efficiency by installing more energy efficient storefront and upgraded HVAC equipment.
  - g. We feel we are more environmentally conscious because of our decision to maintain the existing structure of the building instead of tearing it down to build new.
  - h. We demonstrate this requirement by providing a covered canopy above our main entry.
  - i. Any temporary barrier / wall will complement the building's design
  - j. We raised the existing parapet walls to screen rooftop equipment.
3. Materials and Colors
    - a. Our materials will be in line with the latest in the Shake Shack brand, using a neutral color palette. We have incorporated Acme Brick in Mesa Red to use a similar material that connects us to the surrounding buildings. We feel the more neutral palette makes this building compatible with it's surroundings while still emulating the Shake Shack brand.
  4. Landscape and Screening – The exterior site landscaping will remain unchanged. There will be new landscaping added to the perimeter of the foundation wall around our building.
  5. Signage
    - a. Signage will be provided under a separate permit set.
  6. Lighting
    - a. Our building lighting adheres to the UDC guidelines and cut sheets will be provided in this submission.

**Specific Requirements for The Chesterfield Valley**

1. Facades
  - a. We demonstrate this by utilizing the same materials on each façade to create a unified look from every angle. We are also upgrading the exterior trash enclosure and constructing it with CMU with the Acme Thin Brick in Mesa Red applied to the exterior face. This will connect the trash enclosure to our building design.
2. Storage
  - a. No storage of goods or equipment will be outside of building.
3. Utilities
  - a. All new and existing site utilities will be underground
4. Parking
  - a. We are maintaining a similar parking layout to what was previously approved for this site. Parking is primarily on the sides of the building, with some parking by the front and back to be able to maintain enough parking for our building.

Sincerely,

Samantha Goodman, LEED AP BD+C  
 Associate | Senior Architectural Designer

**Bergmeyer**  
 Boston | Los Angeles  
 617.542.1025 office  
 617.695.7719 direct





**ARCHITECTURAL REVIEW BOARD  
Project Statistics and Checklist**

**Date of First Comment Letter Received from the City of Chesterfield** \_\_\_\_\_

**Project Title:** Shake Shack Chesterfield **Location:** 1713 Chesterfield Airport Road

**Developer:** \_\_\_\_\_ **Architect:** Bergmeyer Associates **Engineer:** Cochran Engineering

**PROJECT STATISTICS:**

**Size of site (in acres):** 1.05 **Total Square Footage:** 3,275 **Building Height:** 21'-8"

**Proposed Usage:** Restaurant

**Exterior Building Materials:** Urban Brick Tile, White; Cementing Tile, Dark Grey; Evoke Tile, Matte Green

**Roof Material & Design:** Maintaining existing roof but providing new PVC roofing membrane

**Screening Material & Design:** Screening used at Trash Enclosure is CMU

**Description of art or architecturally significant features (if any):** \_\_\_\_\_

**ADDITIONAL PROJECT INFORMATION:** We are bringing new life to an older building by upgrading the finishes and creating a welcoming patio.

**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.

## **ARCHITECTURAL REVIEW DESIGN STANDARDS**

Please refer to [Section 04-01 of the Unified Development Code](#) for the Architectural Review Design Standards.

## **ARCHITECTURAL TERMS**

Please refer to [Section 10-06 of the Unified Development Code](#) for definitions of Architectural Terms.