



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

Planning Commission Staff Report

| Project Type: | Amended Site Development Plan (4 th) |
|---------------|---|
| Meeting Date: | May 27, 2020 |
| From: | Mike Knight, Assistant City Planner JMK |
| Location: | North side of North Outer 40 Road and east of Boone's Crossing |
| Description: | Chesterfield Outlets (The District) 4th ASDP: An Amended Site Development Plan, Landscape Plan, and Lighting Plan for a 48.2 acre tract of land zoned "PC" Planned Commercial District located north of North Outer 40 Road east of Boone's Crossing (17T420027). |

PROPOSAL SUMMARY

This is a request for an Amended Site Development Plan within the Chesterfield Outlets subdivision commonly known as "The District". In October of 2019, Phase 1 of The District was approved by Planning Commission. Phase 1 had three primary components: a 3,000 seat indoor theatre, a 2-story structured parking garage, and a 48,559 square foot recreational facility. **This request is to remove the 2-story structure parking and replace with surface parking.** The development team no longer envisions a future office building on the site which led to the decision to remove the parking structure. The 3rd ASDP contained 2,509 spaces and the proposed 4th ASPD contains 2,462 spaces. The minimum required parking for the site is 2,145 spaces and the maximum allowed is 2,574. The parking remains closer to the maximum allowed on the site.



Figure 1: Aerial

SITE HISTORY

St. Louis County zoned the subject site "NU" Non-Urban District in 1965. 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.

Subsequent to the change in zoning, a Site Development Plan was submitted proposing a 472,282 square foot outlet retail center on the site. The plan was approved by the City of Chesterfield on March 26, 2012.

In May of 2019, the current governing ordinance, City of Chesterfield Ordinance 3049, was approved by City Council. The primary purpose of this ordinance amendment was to establish a maximum height of 60 feet for a proposed pavilion and indoor theater uses, including rooftop mechanical equipment, screening, and architectural features.

In October of 2019, the 3rd Amended Site Development Plan for the Chesterfield Outlets subdivision was approved. This amendment was to allow for the construction of Phase 1 of an entertainment district within the Chesterfield Outlets subdivision known as The District.

STAFF ANALYSIS

Chesterfield Valley Design Policies: The City of Chesterfield's Comprehensive Plan has a specific Chesterfield Valley Policies Element. The policies include commercial development with particular concern over the image presented by development along I-64. There are six specific policies of which one is applicable to the design of this project.

Policy: Automobile Parking for Buildings Along I-64 - Parking should be primarily located to the side or rear of any building façade facing I-64/US 40 or along North Outer 40.

The existing surface parking is primarily in front of all the existing buildings, as seen in Figure 1. The new surface parking is in the same location as the approved 2 story parking garage on the 3^{rd} ASDP. This location is west of the approved buildings.

Circulation and Access: The 4th ASDP has the same vehicular and pedestrian access as the 3rd ASDP. Vehicular access is composed of four entrances from N Outer 40 Road. A Traffic Management Plan was approved in conjunction with the 3rd ASDP. This plan was accomplished and approved to ensure the best traffic control for larger events associated with the development, specifically with the music venue/ indoor theatre. The Traffic Management Plan has been updated in accordance to the proposed parking configuration.

Pedestrian access can largely be seen in two areas of the site. The first being on the west side of the tract via the Monarch Levee Trail and from the east internally with Lot A of the neighboring Summit-Topgolf subdivision. No changes to the pedestrian access are being proposed.

Rivers Edge Park: Directly to the north is an 188 acre passive park with a trail surrounding a lake known as Rivers Edge Park. In conjunction with the 3rd ASDP, updated parking and access

easements were secured to maintain the public connection to the city park. There are no changes being proposed or necessary with the Amended Site Development Plan.

Lighting: The site lighting proposed is in conjunction to the parking re-configuration, utilizing all flat-lensed fully-shielded fixtures in which the light levels are in accordance to the Unified Development Code.

Open Space: Governing ordinance 3049 requires 30% open space for the site. The proposed open space for the site with the parking re-configuration is 32.3%.

Staff Recommendation

Staff has reviewed the Amended Site Development Plan, Landscape Plan, and Lighting Plan for the Chesterfield Outlets (The District) and has found the proposal to be in compliance with the site specific ordinance, Comprehensive Plan, and all City Code requirements. Staff recommends approval to the Planning Commission.

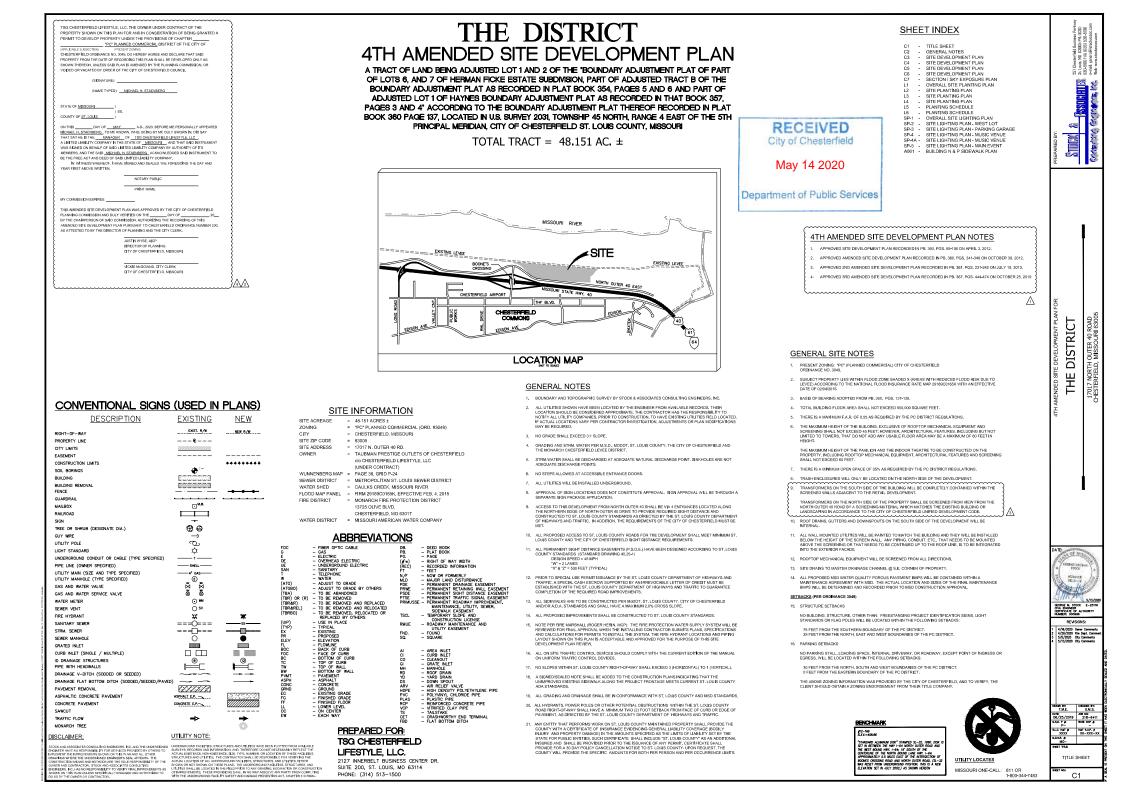
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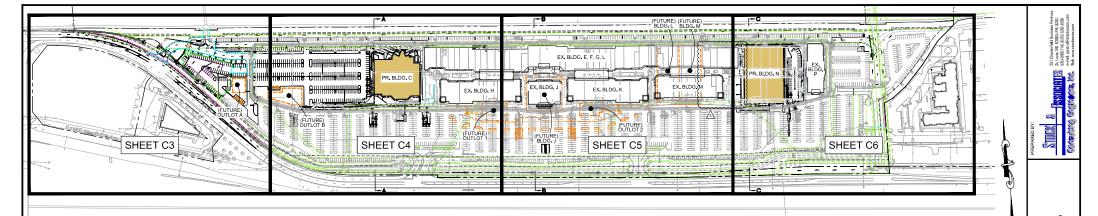
The following options are provided to the Planning Commission for consideration relative to this application:

- 1) "I move to approve (or deny) the Amended Site Development Plan, Landscape Plan, and Lighting Plan for Chesterfield Outlets (The District), as presented."
- "I move to approve the Amended Site Development Plan, Landscape Plan, and Lighting Plan for Chesterfield Outlets (The District) with the following conditions..." (Conditions may be added, eliminated, altered, or modified.)

Attachments

- 1. Amended Site Development Plan
- 2. Landscape Plan
- 3. Lighting Plan
- 4. Traffic Management Plan





PROPERTY DESCRIPTION

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PROPERTY NOTES

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TIFLE COMMITMENT NO. 10131STL WITH SCHEDULE B-SECTION 2 EXCEPTIONS:

- SUBJECT TO TERMS AND PROVISIONS OF THE AGREEMENT FOR RIGHT OF WAY RECORDED MAY 6, 1902 IN BOOK 120 PAGE 824, AFFECTS PARCEL 1, 'NOT SHOWN' NOT PLOTTABLE
- INTENTIONALLY DELETED
- SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC COMPANY, BY THE INSTRUMENT RECORDED IN BOOK 6561 PAGE 1060, AFFECTS PARCEL 1, "SHOWN"
- SUBJECT TO EASEMENT GRANTED TO ST, LOUIS COUNTY WATER COMPANY, BY THE INSTRUMENT RECORDED IN BOOK 3571 PAGE 1801, AFFECTS PARCEL 1, "SHOWN"
- SUBJECT TO EASEMENT GRANTED TO ST, LOUIS COUNTY WATER COMPANY, BY THE INSTRUMENT RECORDED IN BOOK 8535 PAGE 38, AFPECTS PARCEL 1, "SHOWN"
- SUBJECT TO EASEMENT GRANTED TO WATHE D. HAYNES AND RUTHAIN E. HAYNES, HUSBAND AND WHE, FOR INGRESS AND EGRESS FOR ROACIWAY AND UTLITY PURPOSES, BY THE INSTRUMENT RECORDED IN BOOK SIGN PAGE 2447 AND FIRST AMENAMENT TO EASEMENT AGREEMENT RECORDED IN BOOK 2009 PAGE 1004 APPETOR RANCEL 1 SHOWN.
- SUBJECT TO BASEMENT GRANTED TO CARL R. TEONE, FOR A STRM. WATER SYSTEM, BY THE INSTRUME RECORDED IN BOOK 10179 PAGE 1623, AFFECTS PARCELS 1 AND 2, "SHOWN" SUBJECT TO EASEMENT GRANTED TO PUBLIC WATER SUPPLY DISTRICT NO. 2 OF ST. CHARLES MISSOURI BY INSTRUMENT RECORDED IN BOOK 11998 PAGE 2130, AFFECTS PARCEL 2, "SHOWN
- SUBJECT TO EASEMENT GRANTED TO THE CITY OF CHESTERIFELD, FOR A HIMING, BIKING, AND A WALKING TRAIL, BY THE INSTRUMENT RECORDED IN BOOK 17132 PAGE 396, AFFECTS PARCEL 2, "SHOWN"
- SUBJECT TO EASEMENT GRAVITED TO WAYNE D, HAYNES AND RUTHAWN E, HAYNES, HUSBAND AND WIFE, FOR INGRESS AND EGRESS, BY THE INSTRUMENT RECORDED IN BOOK 1745H PAGE 242, AFFECTS PARCELS AND 2, "SHOWA"
- SUBJECT TO TERMS AND PROVISIONS OF THE CHESTERFIELD OUTLETS SITE DEVELOPMENT PLAN, ACCORDING TO THE PLAN THEREOF RECORDED IN PLAT BOCK 360 PAGE 89, AFFECTS PARCEL 1, 'NOT SHOWN NOT SURVEY RELATED.
- SUBJECT TO RIGHTS IN PAYOR OF THE MONARCH CHESTER/FILD LEVEL DISTINCT AS SHOWN ON THE SUBVEY DATED 1947, AND AS SHOWN ON THE BOUNDARY ADJUSTMENT PLAT RECORDED (JP PLAT BOOK 300 PAGE 313, APRCENT PARCEL 2, SHOWN (RELEASED BY DED BOOK 2000), PAGE 310)
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- SUBJECT TO ACCESS EASEMENT DEED GRANTED TO MONARCH-CHESTER/TELD LEVEE DISTRICT, BY THE INSTRUMENT RECORDED IN BOOK 20001 PAGE 1221, AFFECTS PARCEL 1, "SHOWN"
- SUBJECT TO DECLARATION OF COVENANTS AND PROTECTIVE RESTRICTIONS (46:98) STIGE OUTLESS OF CHESTRETED LUC AND THE WOMACH-ORSESTERFELD LUCEE MS STIGE OUTLESS OF CHESTRETED LUC AND THE WOMACH-ORSESTERFELD LUCEE MS IMENT RECORDED IN BOOK 20091 PAGE 1257, AFPECTS PARCEL 1. PROTECTED LUCAW
- (35)
- SUBJECT TO PERMANENT LEVEE EASEMENT DEED GRANTED TO MONARCH, CHESTERFIELD LEVEE INSTRICT, BY THE INSTRUMENT RECORDED IN BOOK 20091 PAGE 1240, AFFECTS PARCEL 1, "SHOWN

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- SUBJECT TO ACCESS AND PARKING EASEMENT AGREEMENT GRANTED TO THE CITY OF CHESTERFELD, MISSOURI, BY THE INSTRUMENT RECORDED IN BOOK 20091 21, PAGE 1250, AFFECTS PARCEL 1, "SHOWN"
- SUBJECT TO CHESTERFIELD VALLEY STRM. WATER EASEMENT GRANTED TO THE CITY OF CHESTERFIEL MISSOURI. BY THE INSTRUMENT RECORDED IN BOOK 20001 PAGE 1552. AFFECTS PARCEL 1, 15HOWN
- SUBJECT TO CULVERT MAINTENANCE AGREEMENT GRANTED TO THE CITY OF CHESTERFIELD, MISSOURI, BY THE INSTRUMENT RECORDED IN BOCK 2001 PAGE 1341, AFFECTS PARCEL 1, BLANKET INGRESS-GENESS FOR INSPECTIONAREPING FOR CULVERT
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- (25) SUBJECT TO RIGHT OF WAY OF THE EXISTING LEVEE OVER THAT PART OF THE SUBJECT LAND EMBRACED THEREIN, AFFECTS PARCELS 1 AND 2.
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- SUBJECT TO EASEMENT TO PUBLIC WATER SUPPLY DISTRICT NO. 2 OF ST. CHARLES COUNTY, MISSOURI AS CREATED BY INSTRUMENT RECORDED IN BOOK 11448 PAGE 301, AFFECTS PARCEL 2, "SHOWN"
- SUBJECT TO MAINTENANCE ADDRESMENT BY AND DETWIEN WAYNE D, HANNES AND RUTHANN E, HANNES AND GARL R, TEXNE ACCORDING TO INSTRUMENT RECORDED IN BOCK 10110 PAGE 1032, AFFECTS PARCEL 2, EXEMPLIENT AREAS SHOWN
- SUBJECT TO FIGHTS OF UTLITES FOR UTLITY FACLITIES WITHIN THE SUBJECT LIND, IF ANY, AS RESERVED BY THE OUT CLAN DEED RECORDED NAMEH 13, 2015 N BOOK 2011 PAGE 16, AFFECTS PARGEL 2.
- SUBJECT TO RESERVATION OF THE RIGHTS OF DIRECT ACCESS TO INTERSTATE 64 AS RESERVED OUT CLAIM DEED RECORDED MARCH 13, 2015 N BOOK 20411 PAGE 196, AFFECTS PARCEL 2,
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- SUBJECT TO TERMS AND PROVISIONS OF THE MAINTENANCE AGREEMENT WITH THE METROPOLITIAN ST LOUIS SEWER DISTINGT RECORDED IN BOOK 30117 PAGE 33, 2582, INCLUDING A PROVISION FOR SEWER ASSESSMENTS, SEWERA SESSURETS, F AND "SHOWN"
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- SUBJECT TO EASEMENT GRANTED TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, BY THE INSTRUMENT RECORDED IN BOOK 20117 PAGE 2305, "SHOWN" EASEMENT GRANTED TO NISSOURI AMERICAN WATER COMPANY, BY THE INSTRUMENT RECORDED IN BOOK 20200 PAGE 1709, "SHOWN"
- SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC COMPANY, BY THE INSTRUMENT BOOK 20333 PAGE 1594, "SHOWN"
- SUBJECT TO EASEMENT GRANTED TO UNION ELECTRIC COMPANY, BY THE INSTRUMENT RECORDED IN BOOK 2020 PAGE 1508, "SHOWN"
- SUBJECT TO EASEMENT GRAVIED TO MISSOLIFI AMERICAN WATER COMPANY, BY THE INSTRUMENT RECORDED IN BOOK 20518 PAGE 2751. "SHOWN"
- SUBJECT TO TERMS AND PROVISIONS OF THE AMENDED SITE DEVELOPMENT PLAN, ACCORDING TO THE PLAN THURKOF RECORDED IN PLAT BOOK 380 PAGE 341, "NOT SHOWN" NOT SURVEY RELATED
- SUBJECT TO TERMS AND PROVISIONS OF THE 2ND AMENDED SITE DEVELOPMENT PLAN, ACCORDING TO THE PLAN THEREOF RECORDED IN PLAT BOOK 361 PAGE 231, 'NOT SHOWN' NOT SURVEY RELATED
- SUBJECT TO TENDE AND PROVISIONE OF THE LEAGE EXECUTED BY AND RETIVENT TAXENUN PRESTORE CULTER FOR CHESTERIFICID LC. A CRAWNER LIMPED LIMPLITY COMPANY, LANC CREWER AND M LOWER INTERN, K. A. DELAWARE CONFORMENT, TENNEN, TO AN UNDERCOORD LF. CREW TI THE LEAGE IS ONCE IN THE MEMORYMOUN OF LEAGE RECORDED AVEL. 1, 2014 IN BOOK 20147 FAGE 0955. TO SHOWN MOT SURVIVE FEALTION.



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PROPOSED BUILDING FOOTPRINTS = 374.769 s.f. G.F.A. [362.259 s.f. G.L.A.] GROSS FLOOR AREA (G.F.A.) [GROSS LEASABLE AREA (G.L.A.)] FLOOR AREA RATIO (F.A.R.) = 374,769 s.f. G.F.A. / 2,097,445 S.F. SITE = 17.89% (ORDINANCE #3049 MAX FLOOR AREA = 500,000 s.f.)
 PEN SPACE CALCULATIONS
 0VERALL AREA
 = 2.097.445 s.f.
 (48.151 across t) = 100%

 TOTAL BUILDING AREA
 = 374,769 s.f.
 (48.049 across t) = 17.87%

 TOTAL PAUED PARKING AREA
 = 1,045,223 s.f.
 (23.949 across t) = 49.81%

 TOTAL OPEN SPACE
 = 677,453 s.f.
 (15.552 across t) = 32.30%
 NOTE: 30% OPEN SPACE IS REQUIRED FOR THIS DEVELOPMENT BY CITY OF CHESTERFIELD ORDINANCE 3049, SECTION B.3.A. THE EXISTING STORM WATER IMPROVEMENTS COMPLY WITH THIS REQUIREMENT.
 REQUIRED PARKING
 =
 4.50 SPACES PER 1,000 s1. OF LEASABLE FLOOR AREA (RETAL CENTER) (a*)

 1.00 SPACES PER 4 SEATS (THEATER, INDCOR) (b)
 1.00 SPACES PER 4 SEATS (THEATER, INDCOR) (b)
 = (320,196 s / AT 4.50 / 1,000) + (3,000 SEATS AT 1.00 / 4) = 1,395 + 750 = 2,145 SPACES REQUIRED ACCESSIBLE PARKING = ACCESSIBLE PARKING PROVIDED PER CODE 2% OF TOTAL 1,001 AND OVER SPACES. 20 FUS ONE FOR EACH 100 OR FRACTION THEREOF. 0/VER 1,005 PACES. = (20 + 1 x (395 / 100)) + (750 x 2%) = 24 + 15 = 39 ACCESSIBLE SPACES REQUIRED

GRAPHIC SCALE

NOTE: (ii) PER SECTION 31-04-04.D.12.a: RETAIL CENTER, WITH PERCENTAGE OF GROSS FLOOR AREA' IN RESTAURANT USE 0%: 10% WITH A CENTER SEE 0% 1001 s1.- 400.000 s1. 6 GROSS FLOOR AREA MODIFIED TO LEASABLE FLOOR AREA SUBSECTION (1). FOR RETAL CENTERS THAT INCLUDE A THEATER USE WITH MORE THAN TWO HUNDRED FIFTY (250) SEATS. THE MINIUUM PARKING REQUIREMENT FOR THE THEATER PORTION OF THE DEVELOPMENT SHALL BE PARKED AS A STANDALOUE USE.

PARKING PROVIDED = 2,462 SPACES (INCLUDES 43 ACCESSIBLE SPACES) [+317 SURPLUS SPACES (+14.78%)]

PROPOSED SITE DEVELOPMENT INFORMATION

OVERALL LOT AREA = 48 151 acres ± (2.097.445 s.f.)

OPEN SPACE CALCULATIONS

PARKING CALCULATIONS

(b)

- ACCESSIBLE CAR PARKING SPACES SHALL BE AT LEAST 9 I. WIDE WITH AN ADJACENT 9 II. WIDE DESIGNATED ACCESS ABLE, UNAACCESSIBLE PARKING SPACES SHALL BE AT LEAST 9 II. WIDE WITH AN ADJACENT 9 III. WIDE DESIGNATED ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 9 III. WIDE WITH AN ADJACENT 9 III. WIDE DESIGNATED VANACCESSIBLE PARKING SPACE. 2 ACCESSIBLE SPACES MAY BE PROVIDED ON EACH SIDE OF A SHARED ACCESS ASLE. NOTE: (c)
- ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN SHOWING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNAGE SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. (ď) DINC ON CULATIONS
- REQUIRED LOADING FIVE (5) 10' x 40' LOADING SPACES FOR RETAIL CENTERS HAVING 150.001-200.000 s PLUS ONE 10 ADDITIONAL 10 x 40 SPACE FOR EACH ADDITIONAL 100,000 s.0. OF BULDING AREA. (a) PLUS ONE (1) ADDITIONAL 10 x 40 SPACE FOR EACH ADDITIONAL 100,000 s.0. OF BULDING AREA. (a) TWO (2) 10 x 25 AND ONE (1) 10 x 40 UADING SPACES FOR INDOOR THEATERS HAVING 25:001-100,000 s.1. OF BULDING AREA (b)
- PER SECTION 31-04-04.D.9: INDOOR THEATER AS A STAND ALONE USE SHALL BE IN ACCORDANCE WITH

TYPICAL SECTION

Δ T.M.E. G.M.S. 06/25/2019 218-64 50. P # MSX WAP # 1350 P # - -P- - -SLC нат # нат SUP. # VXXX XX-XXX-XXXX GENERAL NOTES

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GEORGE M. STOCK E-2511 CML DIGNEER CERTIFICATE OF AUTHORITY NUMBER: COOPIN

REVISIONS:

4/16/2020 Owner Comme 4/29/2020 Fire Dept. Cor 5/5/2020 City Comment 5/13/2020 City Comment

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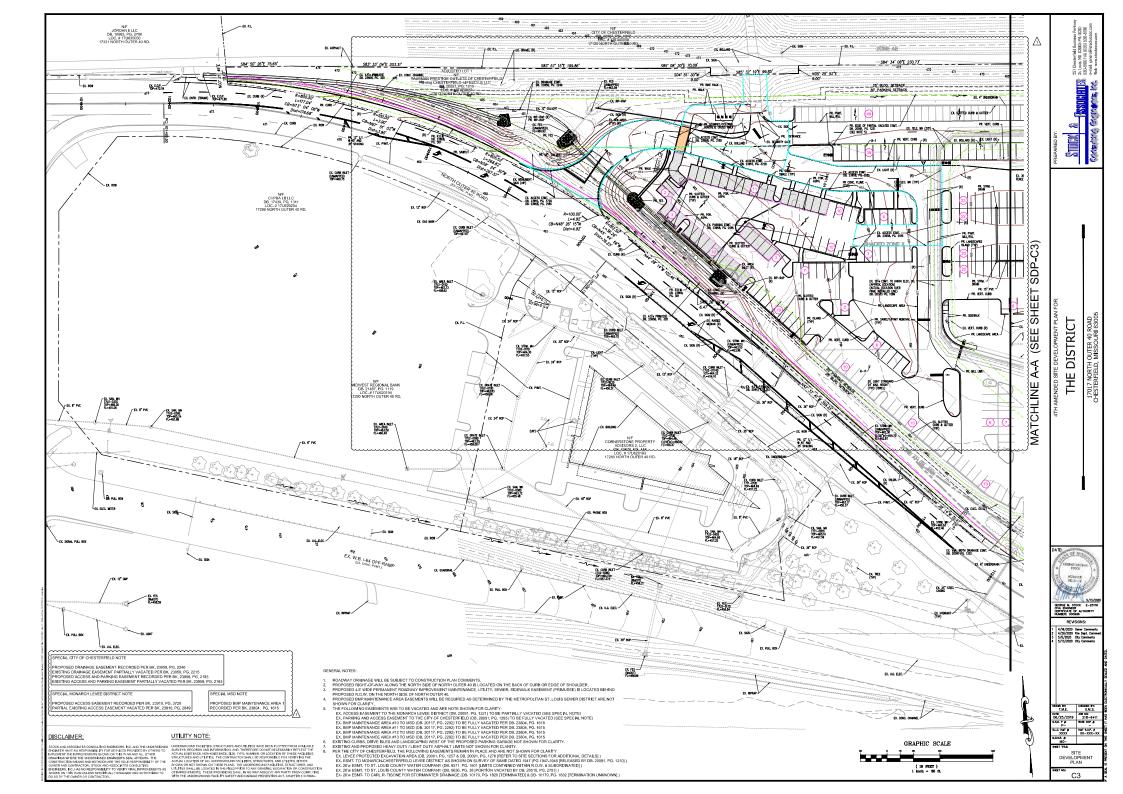
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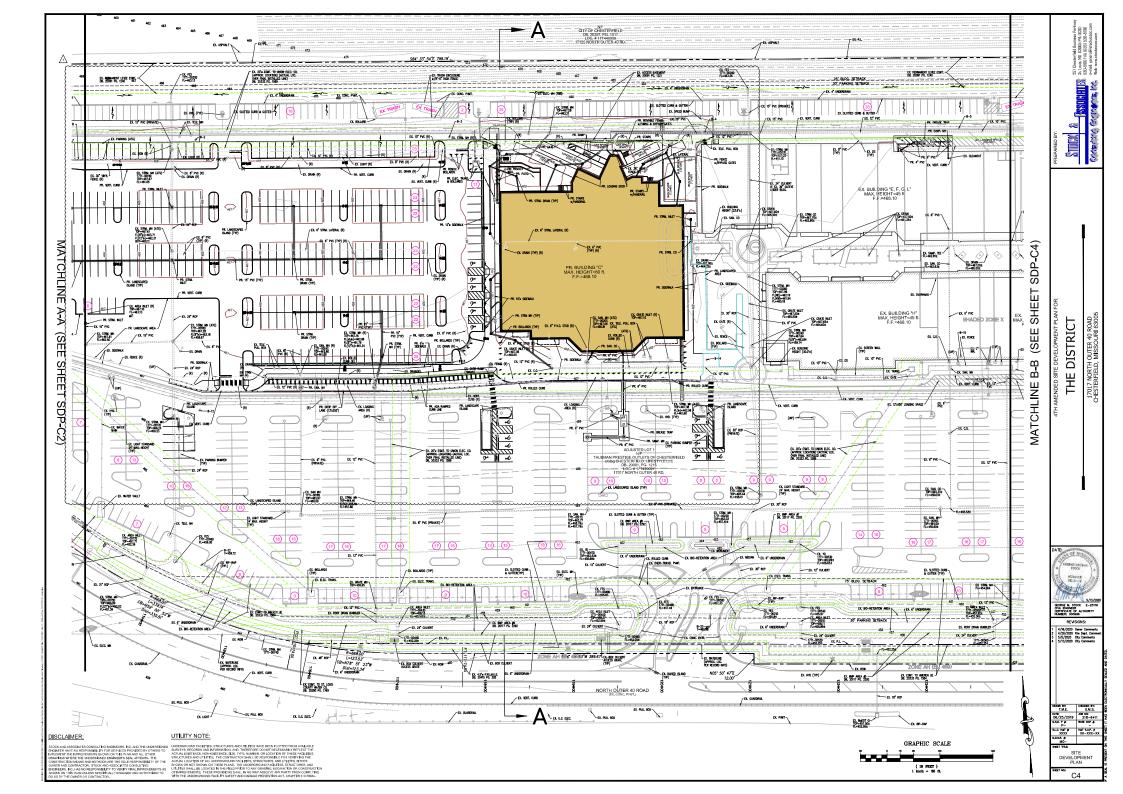
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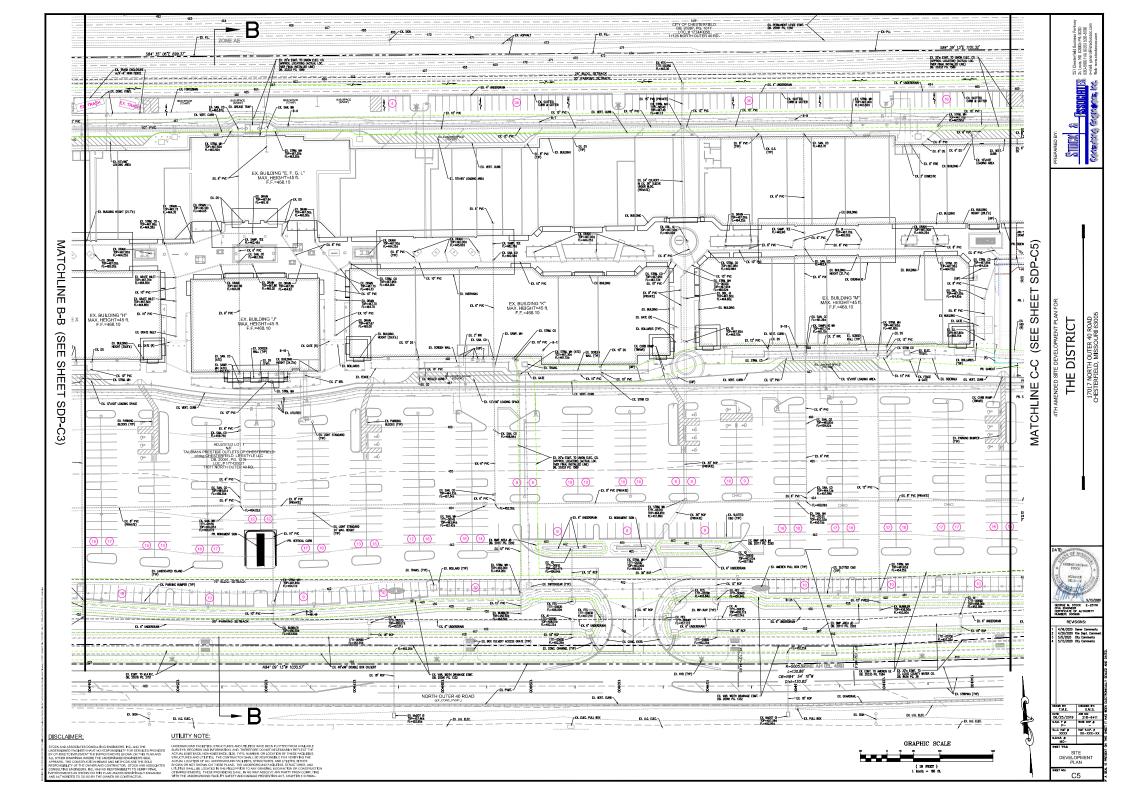
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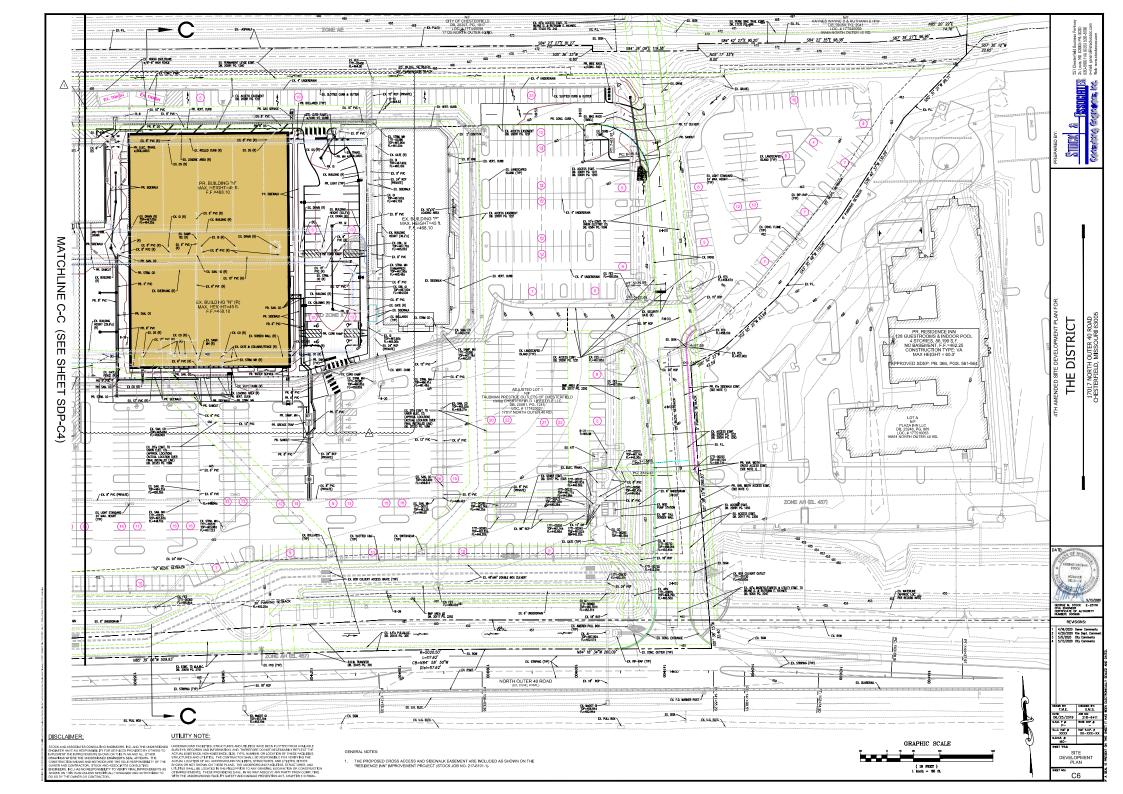
= RETAIL CENTER: 310.196 s.f. LEASABLE FLOOR AREA REQUIRES: 7 - 10" x 40" LOADING SPACES INDOOR THEATER: 52,063 s.f. LEASABLE FLOOR AREA REQUIRES: 2 - 10" x 25" AND 1 - 10" x 40" LOADING SPACES = TOTAL: 2 - 10' x 25' AND 8 - 10' x 40' PER SECTION 31-04-04.D.12.c: RETAIL CENTERS SHALL PROVIDE LOADING SPACES IN ACCORDANCE WITH SECTION 31-04-04(E), TABLE A. IOTE: (a) (b) SECTION 31-04-04(E), TABLE B.
 PROVIDED LOADING
 =
 RETAL CENTER:
 4: - 10-907 ICO.0000 AREA
 1: - 0007 ICO.0000 AREA
 1: - 00000 TYPE B OR TYPE F JOINT (TYP.) A standing and a stand 8" P.C. CONCRETE PVMT. (NON-REINF.) COMMERCIAL ENTRANCES

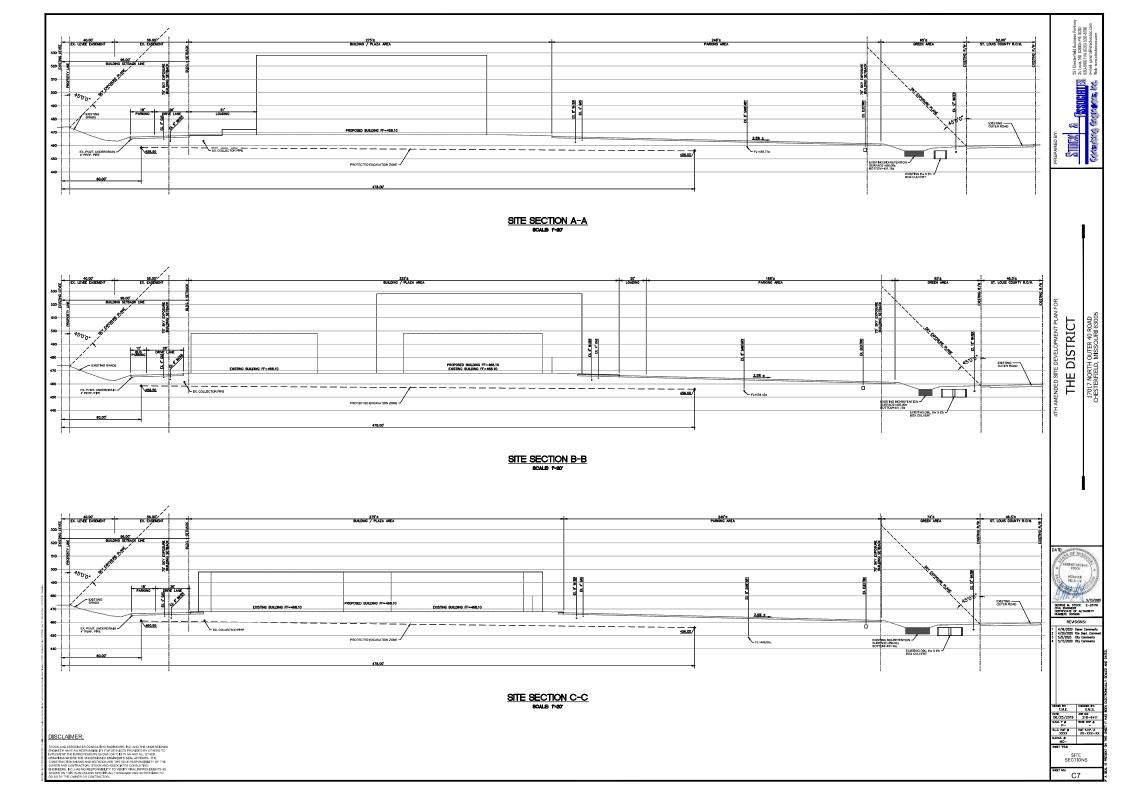
hannes I Dagten, P.E. inter at BUILDING "C" TWO STORY ENTERTAINMENT VENUE 100 -100 TWO INCOMENTS -----

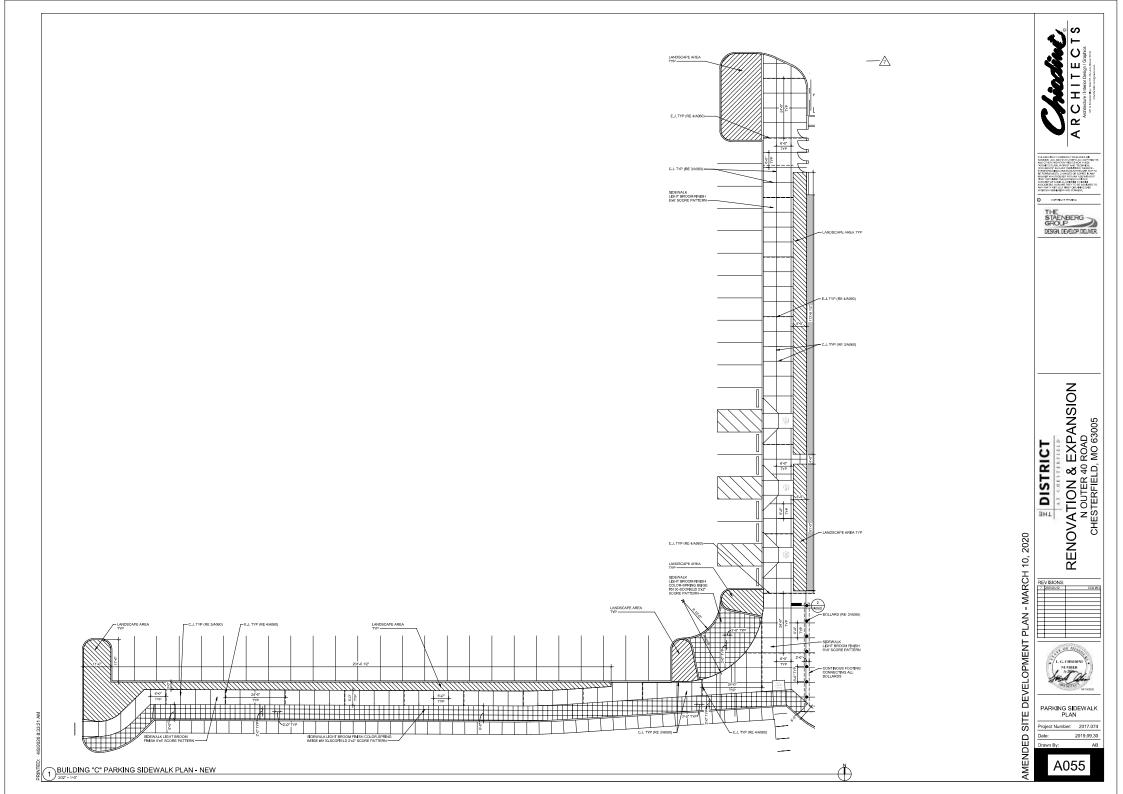


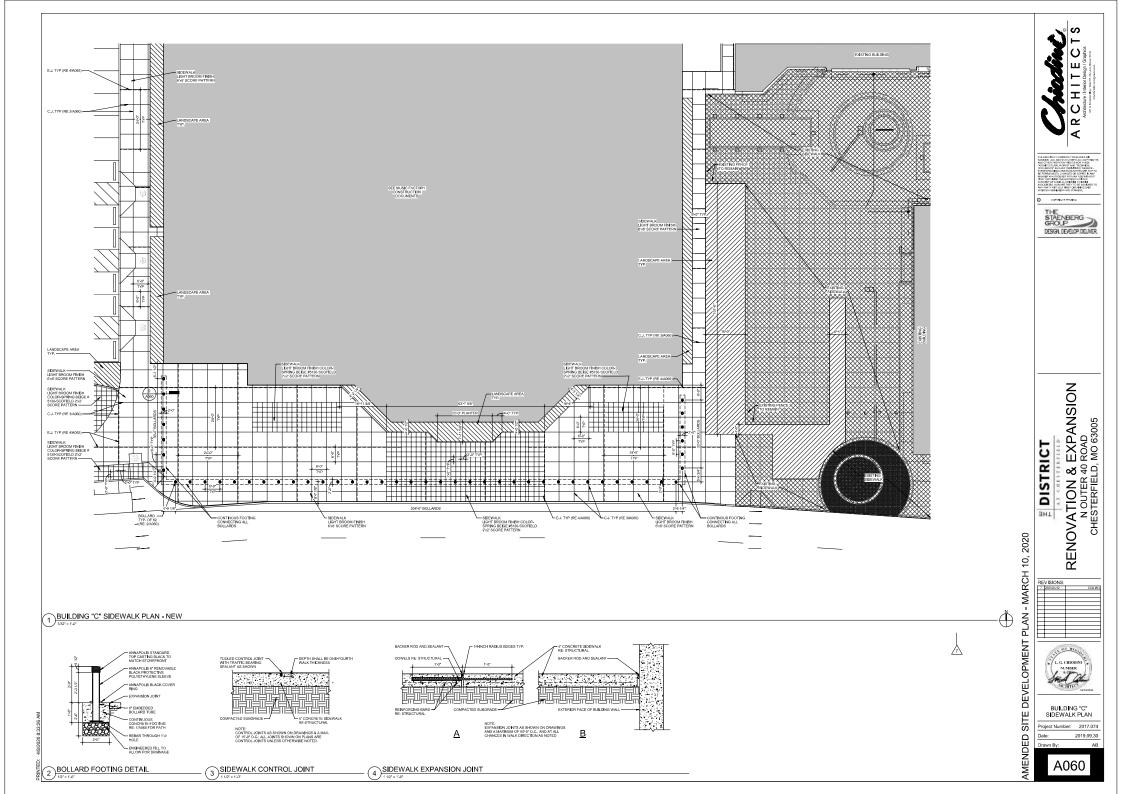


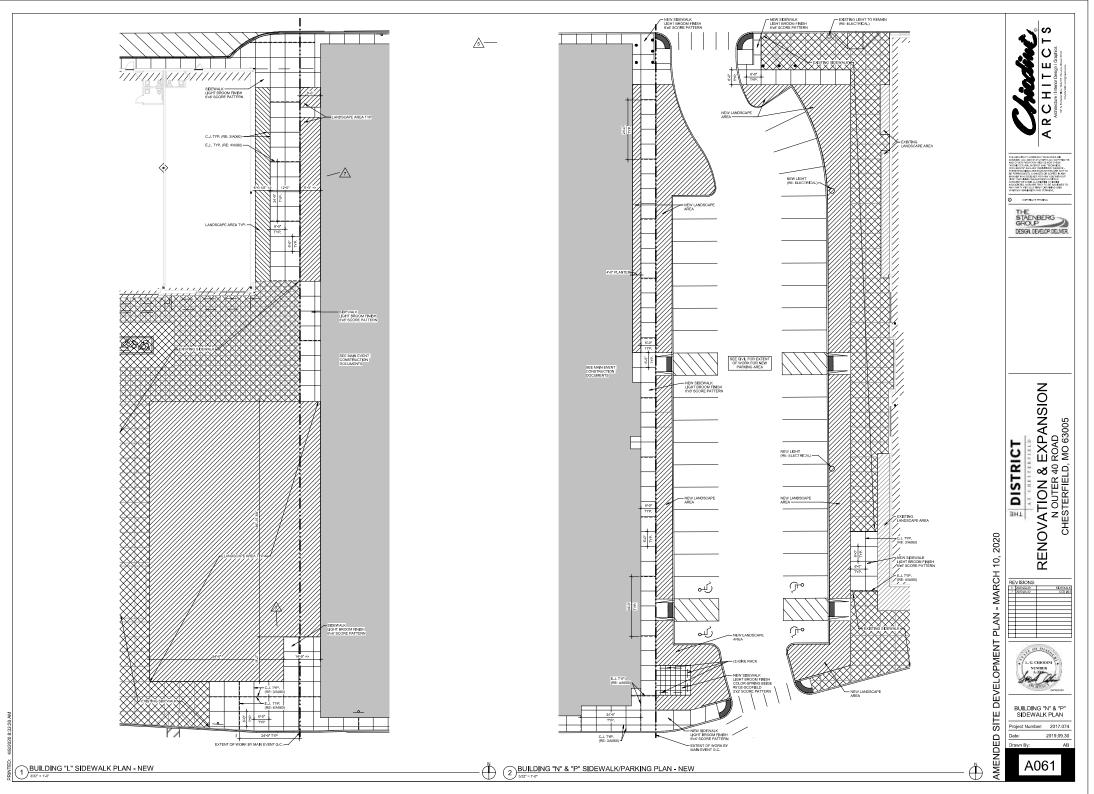


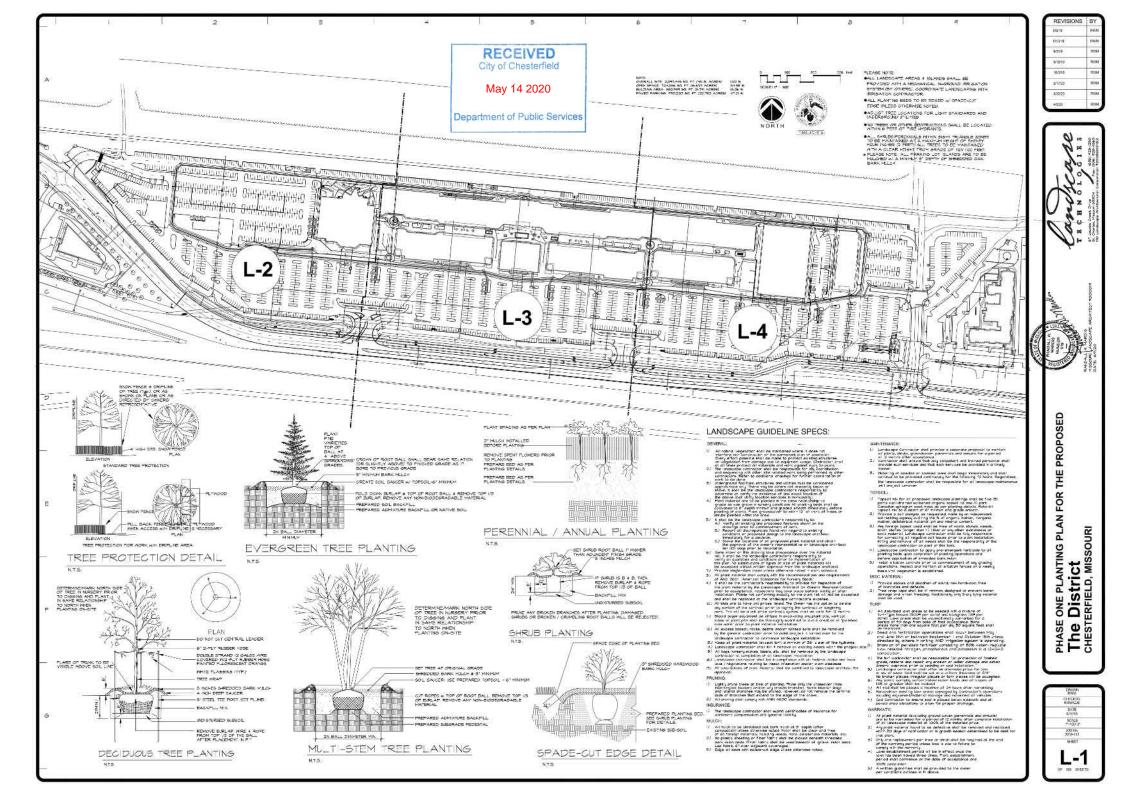


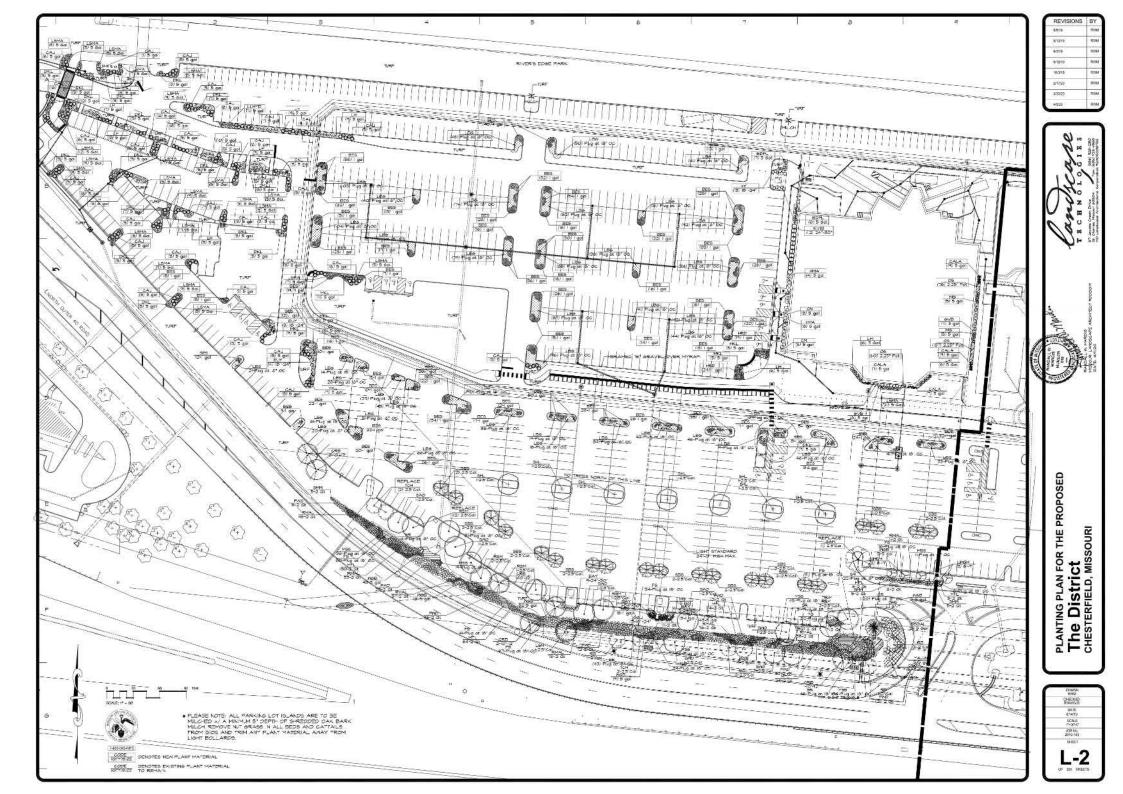


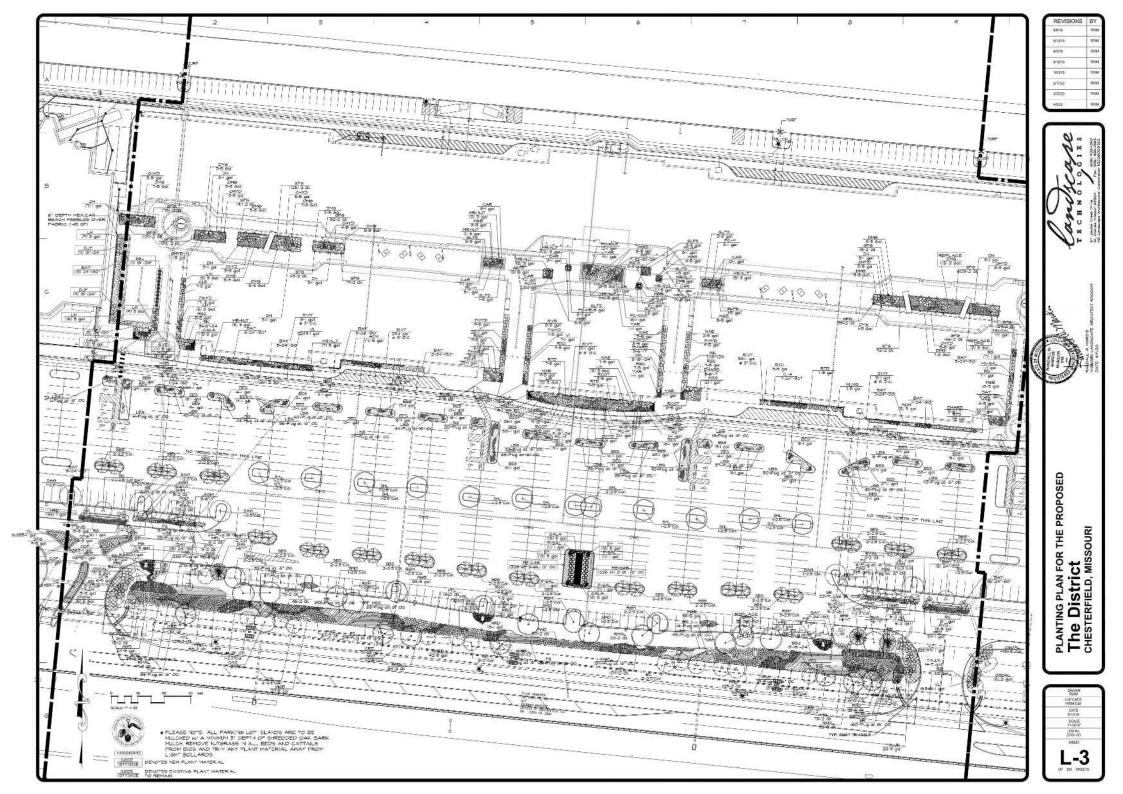


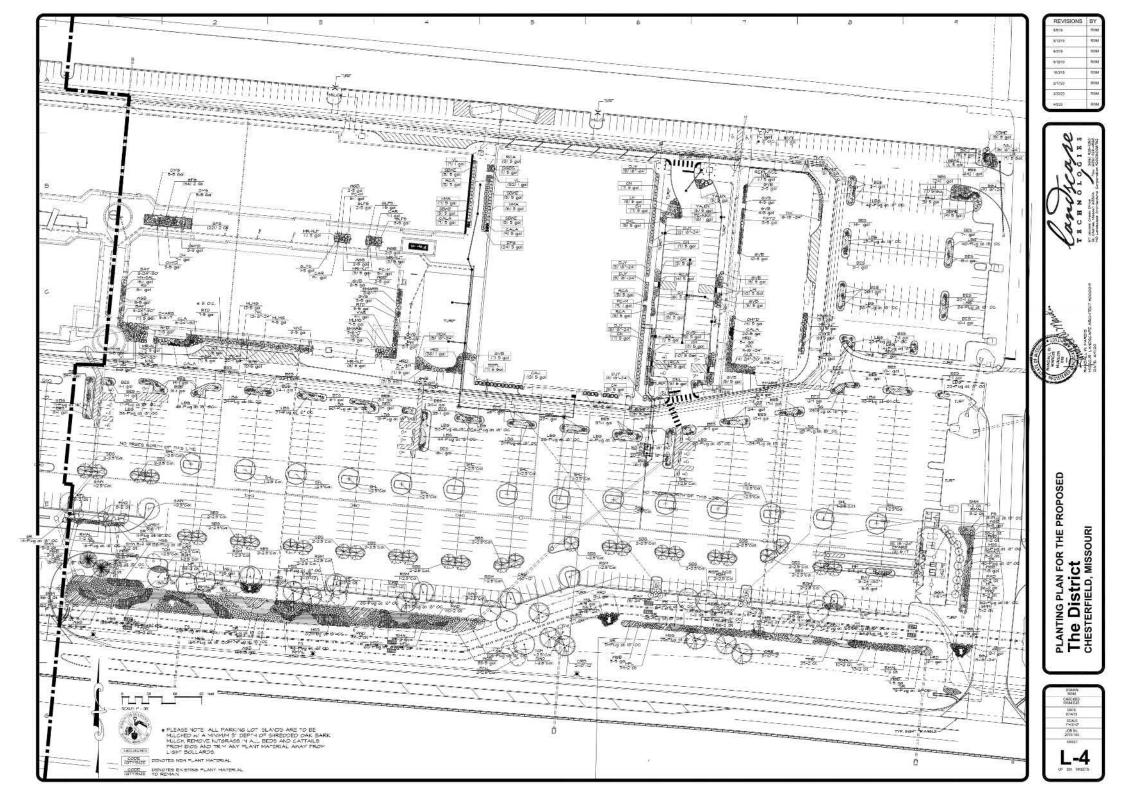












| | SHL | 50 | Sigire Eboar / Beblicia / Stational Sigire | 23 00 |
|-----|---|---|--|-----------------|
| | EVERGREEN TREES | QTY. | COMMON / BOTANICAL NAME | 6)2E |
| | BH6 | 6 | Black Hills Spruce / Piceo glavco persoto | 5 '-7' |
| | EMARB | 5() | Emerald Arborytae / Thuja accidentalis Emerald' | &'-7' |
| | GGA | Л | Green Giart Arborvitae / Truja plicata Greer Giant | 8%7 |
| | MSM | 19 | Sheetsay Magnolia / Magnolia Virginiana 'Um Alison' | \$%7° |
| | FLOWERING TREES | ATY | COMMON / BOTANICAL NAME | Isize |
| | RB | 14 | Redoud / Gencie conodenele | 2"60 |
| | 686 | 8 | Shaablan Serviseberry (Single Stern) / Amelanshier canadensis | 25'60. |
| в | тсн | 12 | Thorniaes Cockepur Hawthorn / Crotsaegus cruegal / vor. Inarmis | 2.5'Cal. |
| | SHRUDS | QTY. | | 9/22 |
| | ACM | 36 | COMMON / BOTANICAL NAME Acomo Grope Munt e / Legenstroemia 'Acoma' | 5 gal |
| | RTD | 54 | Balley's Red-Inig Dognood / Corrus sericea 'Caranal' | 3 gal |
| | GLA | (B) | Chisago Luster Arronhood / Viournum dertatum Chisago Luster | 24*-30* |
| | YAJUN | 88 | Compact Youngstown Andorro Uniper / Uniperus harizantails Youngstown | 3 ga) |
| | 0.95 | 123 | Densa Inkaerry / Tex glaara 'Densa' | 18*-24" |
| | NINE | 84 47 | Diabolo Purple Ninebork / Physiosonous opulifolius 'Diabolo TM | 3 ga |
| | FIHYD GVB | - | Fre # Ise Hydrongea / Hydrongea pariculata Wir's Red' Green Velvet Boxxood / Buxus Green Velvet' | 5 gai 5 gai |
| | OLP5 | 51 | Gra-Lan Pragrant Skinas / Rhus anomatica 'Gra-Lan | 5 qd |
| | HY | 9 | Hicks Yow / Taxue media Hickell | 15'-24' |
| | LPH. | 46 | Little Henry Sweetspire / Itea virginisa Little Henry TM | 5 Gal. |
| 6 | MR-NJT | 90 | Maria Rose New Jersey Tec / Ceanothus x Minmorase | 5 gai |
| | MMB | 24 | Marris Midget Baxhaad / Buws microphy la japonica Marris Miaget | 5 ga |
| | BAY. | 26 | Northern Bayberry / Myrica parey vanica | 24'-30' |
| | OHYD MH | 6 | Oaklaaf Hydrongaa / Hydrongaa overolfolio Rad Casha Almaceacu / Jax verbiolima Ras Bacita | 5 gai 5 gai |
| | RCOT | 31 | Red Sprite Aintenserry / lex verticiliate Red Sprite' Rock Cataneaster / Cataneaster harizanta is | 5 gal |
| | RSC | 85 | Ruby Solae Clethra / Clethra alh?olia %Joy Spice | 5 gal |
| | 56.1 | 24 | Sao Graan Julipar / Juliparve crimanele Sao Graan' | 19"-24" |
| | Nee | 646 | Winter dem Boxwaad / Buxue microphy la 'Winter dem' | 5 90) |
| | GLE | 20 | humingaird' Summerskeet / Clethra a nifalia Humingaird | ခ မူတ |
| | | laurae | | |
| | ANNUALS/PERENNIALS | arre s | COMMON / BOTANICAL NAME Bartarad Brids Jos-Mae Maed / Exposorium maculatum Bortarad Brids | SIZE I gal |
| | CAR | 6 | Cardinal Flower / Labella cardinale | l gol |
| D | CCF | 424 | Cation Cardy Crewoing Phlax / Phlax waslata 'Cation Cardy' | gal |
| 2 | он | 39 | Daor ^e Hibiscus / Hibiscus moscheutos Luno Pirk Saini | l gal |
| | BCS | \$47 | Solasturm Black-eyed Susan / Rudaeckia Fulgida, Solasturm | t gal |
| | HRD | 247 | Hoopy Returns Day IIy / Ferrenacal is hybrid Hoppy Returns | i gal |
| | PC-KKH | 28 | Kim's Knee High Furple ConeFlower / Echinaseo ourpurea 'Kim's Knee High TM | 1 gal |
| | MN-SAL PC-M | 50 | May Night Salvia / Salvia nomoroca May Night' | l gal |
| | 85 | 123 | Purole ConeFlower / Ecrinocea purpurea Magnus Russian Bage / Perovocio atripilolilo | l gal |
| - | 500 | 2 | Stella de Oro Dayilly / Hemeracaills hyorid 'Stella de Oro' | l gal |
| | VI | 60 | Vorlegated iris / iris palloa Varlegata | l gal |
| | VL. | 5 824 | Voriegated Lirlope / Lirlope muscor' Voriegata' | l gal |
| | YAR | e | Yarron / Achilles Filipenduling "Coronation Sold | l gal |
| | nome. | lane. | Provident of the Anna Anna Anna Anna Anna Anna Anna Ann | 0.75 |
| 223 | FORBS MFL | 07Y | COMMON / BOTANICAL NAME Monkeyfower / Mimulus ringers | 9/22 2 Gt |
| E | PWD | 944 | Piskenel Need / Pontederis cordsta | 2 Gt |
| | RMAL | 906 | Rose Mallow / Hiblecus moscheutos | 2 Gt |
| | SMN | 231 | Snortp Milkneed / Aecleoise Incornata | 2 GL |
| | | Lanan - | | Tables |
| | GRASSES | 28 | COMMON / BOTANICAL NAME | 5 ZE |
| | DHS | 25 | Dwarf Fountain Grass / Pernisatum alapeouroidas 'Hamein' Dwarf Malder Grass / Miscartrus sineneis 'Yakushima' | 5 ga) 5 dal. |
| - | CALA | 70 | Faersten's Read Grass / Solamagnostis acutifolia 'Karl Foersten' | 5 gal |
| | Ma | 51 | Malden Gross / Mecarchus sinensis (Gracil Inus' | 5 gai |
| | MLMG | 40 | Morning Light Malden Grass / Mecanthys sinensis 'Morning Light' | 5 gai |
| | | alance . | n hann a searchaidh a searchan an searchaidh an s | Sherring-2 |
| | ROSES | arr | COMMON / BOTANICAL NAME | SIZE |
| | 050AL | 59 | OSO Easy At Last Rosa / Rosa × OSO Easy At Last | j≅ dal. |
| F | VINES | arr | COMMON / BOTANICAL NAME | 512E |
| | EIVY | 24 | English Ivy / Hadara halix | i gol |
| | 1907.27 | 10.000 | - Charles and a second and | 1.2 |
| | NATIVE GRASSES | QTY . | COMMON / BOTANICAL NAME | 5 ZE |
| | | 3,064 | Fringed Bedge / Carex critita | Plug at 18" OC |
| | | | | |
| - | GFG | 1,257 | Bolden Foxtail Gross / Alopecurus protensis: Aureovor egatus' | 2 Gt |
| | 27775554 <u>447744</u> 79544 | 2,456 | 1 title Winnerson Anna / Schlangelautur | Plug at 18" 00 |
| | LBG | | Little Slueeten Orsee / Schizachyrum ecoporium | and are a coo |
| | PERSONAL PROPERTY AND INCOME. | 2.74 | Mannina Star Sedae / Carex arau' | 210g |
| | MALLAMSS MILL | | | 97 |
| | A MARTIN AND AND AND AND AND AND AND AND AND AN | 228 | Soft Rush / Juncus w ^a fusus | Plug at 18" CC |
| 6 | SR | | | |
| 0 | CALCHICE COURT AND AND AND AND | a | 생 | 1 |
| | PLEASE NOTE: NINE (9) OF THE E TO MODERATE RA | 2,741 2,218 LEVEN NGE OI ARE RE | Marning Scar Sodge / Carex gray | Flug at 18" CC |

4

5)2E 2.5'Cal

10-12 23'Cal 25'Col.

25'60

25'Cal.

5

6

1

3

9

3

2

COMMON / BOTANICAL NAME Bald Cypress / Taxpolum distiction

Heritage River Brick / Bebla nigro "Heritage Improved" Legacy Sigar Mapie / Acer socharum "Legacy" Sentooth Ook / Quercus asutissima

Shamp Nhite Ook / Guersus bisolan Red Sunset' Maple / Acer rubrum 'Frankshed'

Skyline' Locuet / Gleditela tr'acanthae Skyline

PLANT SCHEDULE (EXISTING PLANTS):

24

33

QTY.

TREES

CRB LSM SAM SMO RSM

SHL

A

| REVISIONS | BY |
|-----------|---------|
| 41/19 | RVM |
| 8/12/15 | RW |
| 92/19 | Arrow 1 |
| 9/18/19 | RVM |
| 10/3/18 | RIN |
| 2/17/20 | RIM |
| 33850 | RVM |
| 4520 | RVM |





EXISTING PLANT MATERIAL ON-SITE The District CHESTERFIELD, MISSOURI

DRAWAN REAM CLECKED MANYIGLE DATE STALE N. 6. SCALE SC L-5

| INT SCHEDULE (| (NEW ⊅L | ANTS): COMMON / BOTANICAL NAME meritaga River Bick / Besula nigra "mentaga inproved Saktaoth Cak / Quercus outliselina Red Sunset Maple / Acer rivorum Frankenad COMMON / BOTANICAL NAME Themioss Cockepur maktherr / Cratalogus crusgalli var. Inermis COMMON / DOTANICAL NAME Asoma Crops Myrtle / Lageretinosm a 'Acama' Allegrani, Lootherical Viburum / Viburum ringtdopnjilum 'Allegrang' Siloonerang Charf Funge Libe / Springa k SMARE/J TM China Bag/Kerl Holly / Ilax meservase 'China Bag/Shr TM Campact Andersa uniser / Jungerus horizontalis 'Plumosa Compacta Compact Trangstonn Andersa / Jungerus horizontalis 'Trangstown' Coppertina Nineserk / Physocampus opulfolus Copperting' Dense Insperty / Ilax glazina Dense Danse Japanese Yaw / Tacus ouspilato 'Dens formis' Diagole Rungie I (Pagecampus opulfolus Copperting 'M | 5/2E (0'-12' 2.5'Col 2.5'Col 2.5'Col 2.5'Col 2.5'Col 2.5'Col 5.601 5.601 5.601 5.601 5.601 5.601 5.601 5.601 5.601 5.601 5.601 6.241 6.241 | 5ion 5ion | Maderate X X Moderate X | × | ¢6' | 6 - 18* 6 - 18* | 16 - 36° | | | | | 10 - 15 10 - 15 | | | 5 - 25 5 - 25 X | 25 - 40' 25 - 40' | x x x | |
|---------------------------------|--|--|---|--|--|---|---|---|--|---|---|--|---|---|---|--|---|--|---|---|
| NERING TREES | 2 677 2 877 4 5 22 24 40 40 40 40 40 40 40 40 40 40 40 40 40 | Herbaga River Birch / Betu a nigra Herbaga Improved Barbaoth Dak / Quercus outlestima Red Sunset Mopie / Acer rvorum Frankered COMMON / BOTANICAL NAME Thernices Cackapur Harberr / Crateogus crusgalli var. Inernis COMMON / DOTANICAL NAME Acema Crops Myttle / Legarstroam a 'Acema' Allegnan, Leatherical Visurum / Viteurum natidophylium 'Allegnany' Bioamerang Dhart Pure Lice / Syringa x SMLRPJ TM China Bog/Sri Holly / Ilex meserveae China Esg/Sri TM Compast Anderca Lunger / Juniperus herizentalis Plumese Compasta Compast Anderca Linger / Juniperus herizentalis Plumese Compasta Compast Anderca Linger / Juniperus herizentalis 'Youngstown' Coppertina Nineberk / Physocarpus apulfollus Coppertina' Dense Inderry / Ilex glazra Dense Danse Japanesa Yen / Taxa cuspidata 'Densformis' Dabole Purple Nineberk / Physocarpus apulfolus 'Dideo's' TM | 0'-12' 2.5'Col 2.5'Col 2.5'Col 2.5'Col 2.5'Col 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 5'Sol 2.5'Col 5'Sol 5'Sol 2.5'Col 5'SOL 5'SOL 5 | | x x | × | | | | | | | | | | | | | x x x | |
| B5 - N | 677 2 3 5 5 22 24 65 65 1 1 28 26 | Sanktoch Oak / Ouercus outlissing Red Sunest Mopie / Acer rubrum Franksred COMMON / BOTANICAL NAME Themises Cackepur Hankforr / Cristalogus crusgalli var. Hermis COMMON / BOTANICAL NAME Acema Crops Mytile / Lagerstrosm a 'Acoma' Alegnang Lootheriael Viburum / Viburum ngsidopnglium 'Alegnang' Bloomerang Dharf Funds Lillos / Syringa x SMN,REJ TM Coha Sayderi Halig / Illox meservoas 'Chira Bayden' TM Compast Anderra Junger / Juniperus herizontalls 'Plumesa Compasta Compast Anderra Junger / Juniperus herizontalls 'Plumesa Compasta Compast Anderra Junger / Juniperus herizontalls 'Youngstown' Compast Anderra Junger Junger / Juniperus herizontalls 'Youngstown' Compast Anderra Junger / Jungerus Junger' Juniperus herizontalls 'Youngstown' Compast Anderra / Provide Anderson' Data Barbard (The State | 2.5'Col. 2.5'Col 5)ZE 5)Col. 5)Col. 5)Col. 24'-20' 5 Gol 24'-20' 5 Gol 5 Gol 5 Gol 5 Gol 5 Gol 5 Gol 5 Gol 5 Gol 5 Gol 5 Gol 6'-24' | 516m | X X Moderate X | Fast | < 6* | & - 18* | 8 - 36' | > 3' | × 18* | 3 - 6' | 6 - 10' | 10 - 15 | > 5 | < 5 | (5 - 25 X | 25 - 40' | × × | 8 |
| B5 - N | 077 2 377 4 5 5 22 24 40 4 65 40 4 1 128 26 | Red Sunset: Maple / Acer rvarum Frankenad COMMON / BOTANICAL NAME Themices: Cackboar maxteer / Crotologus crusgalli van. Inemis COMMON / BOTANICAL NAME Asoma Crops: Mystle / Lagerstrosm a 'Acama' Allegrap, Laotherical Vournum / Viburum ingtdaphylium 'Allegnany' Bioenerang Dharf Funde Like / Syringa & SMNLRFU TM China Bag/Keit Hoty / Like maservasair China Bag/Keit Hoty / Like maservasir China Bag/Keit Hoty / Like maservasir China Bag/Keit Hoty / Like maservasir China Bag/Keit Matta / Lingen / Lingensi Andorra Uniger / Lingensi Antorra Compasta Compact Taungstann Andorra Linger / Lingensi Antorrata Is 'Youngstann' Coppertina Ninseerk / Physocarpus put/felus: Coppertind' Dane Inkeerg / Ling Jarva Suspidato 'Densiformis' Danes Interest / Anglaza Deres Danes Lapanasa Yan / Taxus cuspidato 'Densiformis' Daala Prije Nihebark / Physocarpus dopulfalus: Copostino' | 2.5°Col 51ZE 2.5°Col. 5 gal 5 gal 5 gal 5 gal 5 gal 5 gal 5 gal 5 gal 5 gal | 5100 | X X Moderate X | Fast | < 6' | Ø - 18* | 10 - 36' | > 3' | × 18* | 3 - 6 | 6 - 10' | 10 - 15 | > 5 | < 5 | (5 - 25 X | 25 - 40' | × | > 6 |
| B5 - N | 077 2 377 4 5 5 22 24 40 4 65 40 4 1 128 26 | COMMOX / BOTANICAL NAME Therniess Cockepur Hastherr / Cratalogus crusgalli var. Inernis COMMOX / BOTANICAL NAME Acera Craps Myrtle / Lagerstroam a 'Acera' Alegnan_Lootherical Vourum / Viburum rugtidopnylum 'Allegnany' Bioenerang Dhart Purole Liac / Syringa X SMARE'J TM Canio Bayderi Holly / llox meservaai China Bayder' TM Compact Anderea Uniper / Uniperus herizentalis Plumesa Compacta Compact Yangstonr Ardonra Uniper / Uniperus herizentalis Plumesa Compacta Compact Yangstonr Ardonra Uniper / Uniperus herizentalis (Youngstown' Compact Yangstonr Ardonra Uniper / Uniperus horizentalis (Youngstown' Compact Nangstonr Ardonra Uniper / Uniperus horizentalis (Youngstown' Compact Neerers / Physocarpus opulfolius Coppertina' Dense Inderry / llex glaara Deres Danse Japanesa Yen / Taxa cuspidata 'Densformis' Daole Purpie Niheber / Physocarpus opulfolius Didoolo' TM | 5/25 2.5°Cal. 5/25 5/94 24'-30' 5/94 5/94 5/94 5/94 5/94 5/94 5/94 5/94 | 5ian | X Moderate X | Fast | 1.61 | 6 - 18" | 18 - 36' | × 3' | × 18* | 3 - 6' | 6 - 10' | 10 - 15 | > 15 | < 5 | 15 - 25 X | 25 - 40' | 12 | 21 |
| B5 - N | 2 GTY 8 5 22 24 40 40 40 40 1 128 26 | Therniess Caskepur Hantherr / Crateagus crusgalli Var. Inermis COMMON / DOTANISAL NAME Asoma Crops Myrtle / Lagerstroam a 'Acama' Alegnan, Lootherical Vourum / Viburum Ingidopnylum 'Alegnany' Sloomerang Daart Prove Lize / Syringa x SMA,REU TM China Boy/Shri Holly / Ilex meservace 'China Boy/Shri TM Compast Anderra Junicer / Junjerus herizantalis Plumesa Compasta Compast Yangstown Ardurra Juniper / Junjerus herizantalis Plumesa Compasta Compast Yangstown Ardurra Juniper / Junjerus herizantalis Plumesa Compasta Compast Yangstown Ardurra Juniper Junipers horizantalis 'Youngstown' Coppertina Nineserk / Physocarpus apulhalus 'Copperting' Dense Lageresa Yew / Taxia cupidata 'Densifermis' Diabolio Eurpie Nineberk / Physocarpus apulha 'Longstown' TM | 2.5°Cal. 5 gal 24'-30' 5 gal 5 gal 5 gal 5 gal 5 gal 6°-24" | | Moderate X | Fast | 1.61 | 6 - 18* | 18 - 36' | > 3' | × 18* | 3-6 | 6 - 10' | 10 - 15 | > 15 | < 5 | 5 - 25 X | 25 - 40' | 40 - 65 | 2 |
| B5 - N | 2 GTY 8 5 22 24 40 40 40 40 1 128 26 | Therniess Caskepur Hantherr / Crateagus crusgalli Var. Inermis COMMON / DOTANISAL NAME Asoma Crops Myrtle / Lagerstroam a 'Acama' Alegnan, Lootherical Vourum / Viburum Ingidopnylum 'Alegnany' Sloomerang Daart Prove Lize / Syringa x SMA,REU TM China Boy/Shri Holly / Ilex meservace 'China Boy/Shri TM Compast Anderra Junicer / Junjerus herizantalis Plumesa Compasta Compast Yangstown Ardurra Juniper / Junjerus herizantalis Plumesa Compasta Compast Yangstown Ardurra Juniper / Junjerus herizantalis Plumesa Compasta Compast Yangstown Ardurra Juniper Junipers horizantalis 'Youngstown' Coppertina Nineserk / Physocarpus apulhalus 'Copperting' Dense Lageresa Yew / Taxia cupidata 'Densifermis' Diabolio Eurpie Nineberk / Physocarpus apulha 'Longstown' TM | 2.5°Cal. 5 gal 24'-30' 5 gal 5 gal 5 gal 5 gal 5 gal 6°-24" | | Moderate X | Fost | < 6° | 8 - 18* | 8 - 36' | > 3' | × 18* | 3 - 6' | 6 - 10' | 10 - 15 | > .5 | < <u>5</u> | 5 - 25 X | 25 - 40' | 40 - 65 | 2 |
| 9. | GTY 4 5 22 24 42 40 4 65 1 128 26 | COMMON / BOTANICAL NAME Acama Crops Mytte / Lagerstroem a 'Acama' Alegrang Leatherical Vourum / Viburum ragtdopnylum 'Alegnany' Bloomerang Dhart Pureis Liac / Syringa x SM-xRFJ TM Compast Andersa Unicer / Uniperus Ibricantalis Plemasa Compasta Compast Andersa Unicer / Uniperus Ibricantalis Plemasa Compasta Compast Yangstann Andorna Uniper / Uniperus Indicatalis (Youngstann' Coppertina Niceark / Physocarpus opulfallis Coppertina' Dense Incerns / Ilex glazna Deres Danse Japanesa Yen / Takus cuspidato 'Densiformis' Daole Purpie Niheberk / Physocarpus opulfallis 'Didoolo' TM | 512E 5 gal 241-301 5 gal 5 gal 5 gal 5 gal 61-241 | | × | | | | | | | | | | | | × | | | |
| 9. | a 5 22 24 42 40 a 65 1 1 120 26 | Asoma Crops Myrtle / Lagerstrosm a 'Acama' Alegnan, Leotherical Vourum / Viburum Ingidopnylum 'Alegnany' Sloomerang Daart Prove Elizo / Spinga x SM-RRU TM Chind Boy/Shi Holly / Ilax meservaae 'Chira Eay/Shi 'TM Compast Anderra Juniaer / Junjerus herizantalis Filomesa Compasta Compast Yangstown Ardorra Juniper / Junjerus herizantalis Filomesa Compasta Compast Yangstown Ardorra Juniper / Junjerus horizantalis 'Youngstown' Compast Yangstown Ardorra Juniper / Junjerus horizantalis 'Youngstown' Compast Pangstown Ardorra Juniper / Junjerus horizantalis 'Youngstown' Compast Pangstown Ardorra Juniper / Junjerus Pangstown' Dense Jagenesa Yaw / Taxia cupidata 'Densifarmis' Diabolio Furpie Nineberk / Physicanous opulifolius 'Diabolio' TM | 5 gal 24'-30' 5 6al 5 gal 5 gal 5 gal 5 gal 8'-24" | | | | | | | | | | | | | | | | | |
| 9. | a 5 22 24 42 40 a 65 1 1 120 26 | Asoma Crops Myrtle / Lagerstrosm a 'Acama' Alegnan, Leotherical Vourum / Viburum Ingidopnylum 'Alegnany' Sloomerang Daart Prove Elizo / Spinga x SM-RRU TM Chind Boy/Shi Holly / Ilax meservaae 'Chira Eay/Shi 'TM Compast Anderra Juniaer / Junjerus herizantalis Filomesa Compasta Compast Yangstown Ardorra Juniper / Junjerus herizantalis Filomesa Compasta Compast Yangstown Ardorra Juniper / Junjerus horizantalis 'Youngstown' Compast Yangstown Ardorra Juniper / Junjerus horizantalis 'Youngstown' Compast Pangstown Ardorra Juniper / Junjerus horizantalis 'Youngstown' Compast Pangstown Ardorra Juniper / Junjerus Pangstown' Dense Jagenesa Yaw / Taxia cupidata 'Densifarmis' Diabolio Furpie Nineberk / Physicanous opulifolius 'Diabolio' TM | 5 gal 24'-30' 5 6al 5 gal 5 gal 5 gal 5 gal 8'-24" | | | | | | | | | | | | | | | | | |
| ŝ. | 22 24 142 1 40 4 65 1 1 128 26 | Allegrany Leatherieal Vlaunum / Vlaunum nystääpäylium 'Allegrany' Bloomerang Dharf Fundis Lilas / Syringa x 19M-XR-J, TM Cahlas Bay/Kell Holly (Jluk meservasei China Bay/Kell TM Compast Anderra Junier / Juniperus herisentalis "Plumesa Compasta Compast Anderra Junier / Juniperus herisentalis "Plumesa Compasta Compast Transform Anderra Junier / Juniperus horizentalis "Toungetawn" Coppertina Nisseark / Physocarpus spulletlas Coppertino' Dense Inkerry / Ilex glacha Dense Dense Japanesa Yew / Taxis suspidata 'Densiformis' Diadola Pupies Nieberk / Physocarpus apulfatius Diadola' TM | 24"-30" 5 6al. 5 gal 5 gal 5 gal 5 gal 8"-24" | | | | | | | | | | | | | | | | | |
| 5. | 22 24 142 1 40 4 65 1 1 128 26 | Bloomerang Dharf Pure's Lise / Syringa x SMURFJ TM China Bag/Gri Holly / Ilax meservace China Bag/Gri TM Compact Andorra Junioer / Juniperus horizontalis Plumosa Compacta Compact Yangstown Andorra Juniper / Juniperus horizontalis 'Youngstown' Coppersing Nieserk / Physocarpus opu Pollus Copperting' Dense Japaness Yew / Taxue cupidata 'Densiformis' Dense Japaness Yew / Taxue cupidata 'Densiformis' Diabalaoness Yew / Taxue cupidata 'Densiformis' Diabalao Furpie Niebork / Physocarous opulfolus Diabalao 'TM | 5 Gal. 8 gal 5 gal 8 gal 8 gal 8 gal 8 gal | | | | | | | | | | | | | | | | | |
| 5. | 24 142 40 4 65 1 1 128 26 | China Bay/Giri Haity / Ilax meservaae 'Chira Bay/Giri TM Compat: Anderca Juniaer / Juniperus Ibrizantalis Filomesa Compasta Compat: Yangstown Andorra Junger / Jungerus nortzartalis 'Yaungstown' Coppertina Nirabark / Physocarpus apulfollus 'Copperting' Dense Japanesa Yew / Taxus cupidato 'Densifermis' Diabolio Furpie Ninebark / Physocarpus apulfolus 'Diabolio' TM | 5 gal 5 gal 5 gal 5 gal 5 gal 18"-24" | | | | | | | | | | | | | | | | | |
| 5. | 40 40 4 65 1 128 26 | Compast, Anderra Juniaer / Uniperus horizontalis "Plumasa Compasta Compast Yaungstanr Ardonra Juniper / Juniperus horizontalis 'Yaungstanr' Coppertina Nirsberk / Physocarpus spulfellus 'Coppertino' Dense Inkoerry / Ilex gladra Deres Dense Japanese Yen / Taxus cuspidata 'Dens Parmis' Diabolis Physis Nihebark / Physocarbus apulfellus 'Diabolis' TM | 5 ga 5 ga 5 ga 8 ga 8 -24" | | | | | | | | | | | | | | | | | |
| 5. | 40 9 65 1 128 26 | Compact Youngstann Andorna Juniper / Junipervis horizenta is 'Youngstawn' Coppertina Ninaserk / Physicaarpus apu Polius 'Copperting' Dense Insberry / Ilex glaana Dense Dense Japanese Yew, I Tawa ovapilata 'Densifarmis' Diabala Purpie Nihebark / Physicanavs apulifa iva Diaba o' TM | 5 gal 5 gal 8"-24" | | | | | | | | | | | | | | | | | |
| 5. | 4 65 1 128 26 | Coppertina Nirabork / Physocarpus opuiPollus "Copperting" Dense Inckerry / llex glabra Deres Dense Japanesa Yen / Taxus expidato "Densifermis" Diabolio Furpie Ninebork / Physocanous opuiPollus "Diabolo" "M | 5 gal 8"-24" | | | | | | | | | | | | | | | | | |
| | 4 65 1 128 26 | Daneo Inkoerry / Ilax glabra Darea Daneo Japaneze Mon / Takue cuspidata "Denefarmis" Diadola Murjie Nihebark / Angeocanowi apulfa lus Diado o' TM | 8"-24" | | | | | | | | | | | | | | | | | |
| | 65 1 128 26 | Dense Japaneze Yek / Takis cispidato Densiformis' Dideola Purpie Nhebark / Physocanous apulfolius Dideolo' TM | | | | | | | | | | | | | | | | | | |
| | 128 | Diabola Purple Ninebark / Physiocarous apulifolius: Diabolo' TM | 8"-24" | | | | | | | | | | | | | | | | | |
| | 26 | | | | | | | | | | | | | | | | | | | |
| | 26 | Dwork Globa Blue Scruce / Sices process 'Sispers' | 5 gal | | | | | | | | | | | | | | | | | |
| | 26 | | 5 ga | | | | | | | | | | | | | | | | | |
| | | Dwarf Korean Lliac / Syringa meyeril Palibin' | 5 gal | | | | | | | | | | | | | | | | | |
| | 65 | Everion Yew / Toxus x media Everion' | 5 gal | | | | | | | | | | | | | | | | | |
| | | Green Velvet Boxxood / Buxuel Green Velvet | 5 ga | | | | | | | | | | | | | | | | | |
| | 25 | Hetz Midget Arborvitae / Truja occidentale 'Hetz Midget' | 5 gal | | | | | | | | | | | | | | | | | |
| | 13 | Hicks Yon / Taxus media Hicks I | 18'-24' | | | | | | | | | | | | | | | | | |
| | 15 | Korean Spice V burrum / Viburrum carlesii | 24'-80' | | | | | | | | | | | | | | | | | |
| (a) | 83 | Linelight Hydrangea / Hydrangea paniculata 'Linelight' TM | 5 gal | | | | | | | | | | | | | | | | | |
| 12 | 7 | Little Line Hydrangea / Hydrangea pariatola a Little Line | 5 ga | | | | | | | | | | | | | | | | | |
| × | 190 | | 5.60 | | | | | | | | | | | | | | | | | |
| <u>£</u> | 1000 | Lon Scape Mound Chokeberry / Aronia melarocarpa 'Lon Scape Mound' | | | | | | | | | | | | | | | | | | |
| | 64 | Lttle Henry Sweetspire / tea virginica "Little Henry" TM | 5 éal. | | | | | | | | | | | | | | | | | |
| | 48 | Miss <im <im<="" lilac="" miss="" patula="" syringa="" td=""><td>5 90</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></im> | 5 90 | | | | | | | | | | | | | | | | | |
| | 0 | Munchkin Oskieat Hydranges / -yarangea sversita ia 'Munchkin' | 18"-24" | | | | | | | | | | | | | | | | | |
| | 23 | Northern Bayaerry / Myrica peneyivanica | 24'-80' | | | | | | | | | | | | | | | | | |
| | 44 | Rose Creek Acelia / Acelia x grandiflora Rose Creek | 5 90 | | | | | | | | | | | | | | | | | |
| | 25 | Sea Green Juniper / Juniperus chinensis. Sea Green | 8'-24' | | | | | | | | | | | | | | | | | |
| <u>.</u> | 3 | Sonic Blaam Heigela / Heigela Flarida 'Sanic Blaam' | 5 ga | | | | | | | | | | | | | | | | | |
| ALS/PERENNIALS | arr | | SIZE | 1 | | | | | | | | | | | | | | | | |
| ALS/FERENNIALS | | COMMON / BOTANICAL NAME | | | | | | | | | | | | | | | | | | |
| | 825 81 | Galasturn Black-ayad Susan / Rudaackia Pulgida, Galasturni | gai | | | | | | | | | | | | | | | | | |
| | | Happy Returns Daylly / Hemerocallis hybrid Happy Returns' | i gai | | | | | | | | | | | | | | | | | |
| жн | | | 1.000 | | | | | | | | | | | | | | | | | |
| Sec. | 44 | | | | | | | | | | | | | | | | | | | |
| E. | 4 | | | | | | | | | | | | | | | | | | | |
| | 34 | Variegated Liriope / Liriope muscari Variegata' | i gai | | | | | | | | | | | | | | | | | |
| 55C5 | ATY. | COMMON / BOTANICAL NAME | 6.17F | | | | | | | | | | | | | | | | | |
| 1000 | | | | | | | | | | | | | | | | | | | | |
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| | 1.46.7 | | 1-1 - 20m | 14 | | | | | | | | | | | | | | | | |
| ND COVERS | arr | COMMON / BOTANICAL NAME | SIZE | | | | | | | | | | | | | | | | | |
| 14 81 118 2 81 119 11 11 11 113 | 355 | Grange Stanecrop / Sedum komtechaticum | 2.25" Pot | | | | | | | | | | | | | | | | | |
| 05 | St | Penneylvania Sedge / Carex pensylvarica | 2 Qt & 12' 00 | 5 | | | | | | | | | | | | | | | | |
| PCAR | 454 51 | COMMON / BOTANICAL NAME | SIZE | _ | | | | | | | | | | | | | | | | |
| PCAR | | | Plug at 18' O | 2 | | | | | | | | | | | | | | | | |
| 4 | 505 ND COVERS | 44 8 94 865 GTY 24 8 8 86 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | CH (B) Kimis Knae High Purple Constlemer / Echinacea purpurea 'Kimis Knae High' TM 44 Fink Friestord Penerria Salvia / Solvia nemonosa 'Fink Friestand' 4 Fink Friestord Penerria Salvia / Solvia nemonosa 'Fink Friestand' 4 Fink Friestord Penerria Salvia / Solvia nemonosa 'Fink Friestand' 54 Find Friestord Penerria Salvia / Solvia nemonosa 'Fink Friestand' 54 Find Friestord Penerria Salvia / Solvia nemonosa 'Fink Friestand' 55 OTM COMMON / BOTANICAL NAME 24 Dinaff Foundoin Grass / Mescaritrus sinensis 'Taxushima' 55 Dinaff Foundoin Grass / Mescaritrus sinensis 'Taxushima' 66 Foerster's Roed Srcas / Cale anagrastia acutifalia 'Kari Foerster' 10 Malaon Grass / Mescaritrus sinensis 'Graci Itrus' 26 Coverse 355 Grange Standards Au AME 26 Grange Standards (Sodge / Corex densylvarida | CH B Kims Knee High Furple Constitute / Echinece propured Kims Knee High TM gal 44 Firk Friestord Perenna Satvia / Solvia herronea Pink Friestond gal 9 Furple Constitute / Solvia herronea Pink Friestond gal 9 Furple Constitute / Solvia herronea Pink Friestond gal 9 Furple Constitute / Solvia herronea Pink Friestond gal 94 Variegated Linkoe / Linkoe nuscani Voriegate/ igal 95 COMMON / BOTANICAL NAME SIZE 24 Drant Fountain Grass / Resolution sinenie Yokienina' 5 gal 24 Drant Mader Grass / Mesonitrus sinenie Yokienina' 5 gal 26 Common / Botanical name SiZE 26 Paret Read Grass / Calanagoesis acutitalis Kar Poersten' 5 gal 27 Malaen Grass / Mesonitrus sinenie Yokienina' 5 gal 28 Orange Standarde / Mesonitrus sinenie Yokienina' 5 gal 29 Orange Standarde / Botanical NAME SiZE 205 Grange Standarde / Sedum kernischatieum 225' Pot 295 Grange Standarde / Carex analytorica 2 ot is 12' DX 205 Fersylvania Sedge / Carex analytorica 2 ot is 12'' DX 205 Gat Gat / Botanical NAME SiZE | CH 10 Kins Knae High Purple Constitution / Echinacas purpundo Kins Knae High TM [gd] 14 Pink Friesland Penerria Salvia / Bolvia nemoroso (Pink Friesland) [gd] 1 Pink Friesland Penerria Salvia / Bolvia nemoroso (Pink Friesland) [gd] 1 Pink Friesland Penerria Salvia / Bolvia nemoroso (Pink Friesland) [gd] 1 Pink Friesland Penerria Salvia / Bolvia nemoroso (Pink Friesland) [gd] 24 Variegated Livicose / Livicose muscarl Variegate) [gd] 255 GTM GotMuton / BoTANCAL NAME Sizt 24 Dirart Frontach Gross / Mescartus sirensis Yaxushima' 5 gd] 25 Dirart Frontach Gross / Mescartus sirensis Yaxushima' 5 gd] 26 Penersters Reed Bross / Ca anagrastis acutitalis Kor Flaenster' 5 gd] 27 Malaen Gross / Mescartus sirensis 'Gradi Inus' 5 gd] 28 OCOVER9 GTM CoMMON / BOTANCAL NAME Sizt 29 CotMico / Botancal, NAME Sizt Sizt 20 CotMico / Botancal, NAME Sizt Sizt 29 GTM CodMico / Botancal, NAME Sizt Sizt 20 GTMIco / Botancal, NAME Sizt Sizt 20 GTMIco / Botancal, NAME Sizt Sizt 205 Grange Staterrap / Sedum k | CH ID Kins Knae High Purple Constitution / Echinacao purpundo Yimi's Knae High' TM Iggi 44 Pink Friesland Penerria Salvia / Boivia hemoropo (Pink Friesland) Iggi 9 Purple Constitution / Echinacao purpundo Yimi's Knae High' TM Iggi 9 Purple Constitution / Echinacao purpundo (Pink Friesland) Iggi 94 Variegated Liricose / Liricose muscart Variegate) Iggi 95 OTM GOTMON / BOTANCAL NAME Sizt 24 Dirart Frontacin Grass / Mescaritrus sirensis You, shima' 5 gai 9 Dirart Frontacin Grass / Mescaritrus sirensis You, shima' 5 gai 9 Dirart Frontacin Grass / Mescaritrus sirensis You, shima' 5 gai 9 Pareters Reed Brass / Grainagatis acutitalis Kor Floerster' 5 gai 9 Malden Grass / Mescaritrus sirensis 'Graci Irus' 5 gai 9 Converse OTMON / BOTANCAL NAME Sizt 9 Converse OTMON / BOTANCAL NAME Sizt 9 Other Grass / Mescaritrus sirensis 'Graci Irus' 5 gai 9 Other Grass / Mescaritrus and set gain waterstaticum Sizt 9 Other Grass / Gracinge Status constatus Sizt 9 Other Grass / Gracinge Status constatus Sizt 9 Gain Conter Grass / Gracinge Sta | CH IB Kims Knae High Purple Constituter / Eshikasaa purpured Tikims Knae High TM Igal L Ha Pink Friesland Peneria Salvia / Bolvia henoroso Pink Friesland Igal I Pink Friesland Peneria Salvia / Bolvia henoroso Pink Friesland Igal I Pink Friesland Peneria Salvia / Bolvia henoroso Pink Friesland Igal I Pink Friesland Peneria Salvia / Bolvia henoroso Pink Friesland Igal I Pink Friesland Exhibas / Linkose huscart Variegata Igal SES OTM GOMMON / BOTANCAL NAME Sizt 24 Dirart Frontain Gross / Mesantrus sirensis Yaxushina' 5 gal 8 Dirart Frontain Gross / Mesantrus sirensis Yaxushina' 5 gal 9 Dirart Robel Stross / Ca anagrastis acutifolia 'Kar Floerster' 5 gal 9 Malden Gross / Mesantrus sirensis 'Graci Irus' 5 gal 9 OTMON / BOTANCAL NAME Sizt 9 Common, Kasa Jakam karte Anagrastis acutifolia 'Kar Floerster' 5 gal 9 OT ComMoN / BOTANCAL NAME Sizt 9 OT ComMoN / BOTANCAL NAME Sizt 9 OT ComMoN / BOTANCAL NAME Sizt <tr< td=""><td>B Kimis Knae High Purple Constitute / Echinacia purpurea Kimis Knae High TM Igal 44 Pink Friestord Penerria Salvio / Solvio nemonose 'Pink Friestand' Igal 4 Pink Friestord Penerria Salvio / Solvio nemonose 'Pink Friestand' Igal 4 Pink Friestord Penerria Salvio / Solvio nemonose 'Pink Friestand' Igal 54 Pink Friestord Penerria Salvio / Solvio nemonose 'Pink Friestand' Igal 54 Variegated Linicae / Linice neuscarl Mariegato' Igal 555 OTM COMMON / BOTANICAL NAME SIZE 24 Dinart Foundoin Grass / Mescantrus sirensis 'Taxashima' 5 gal 6 Dinart Foundoin Grass / Mescantrus sirensis 'Taxashima' 5 gal 6 Foerster Seed Srass / Calomagnetia acutifolia 'Kari Foerster' 5 gal 6 Foerster Seed Srass / Calomagnetia acutifolia 'Kari Foerster' 5 gal 7 O'Malan Grass / Mescantrus sirensis 'Graci Imus' 5 gal 8 O'Malan Grass / Mescantrus sirensis 'Graci Imus' 5 gal 9 O'Malan Grass / Bodim kortschaticim 5 jigal 9 O'Malan Grass / Bodim kortschaticim 5 jigal 9 Grange Standards / Mescantrus sirensis 'Graci Imus' 5 jigal 9 Grange Standards / Grass / Carex densylvorica 2 ot s i 2' oc 9 Selam kortschat</td><td>CH ID Kims Knae High Purple Constitution / Echinacaa purpundo Kim's Knae High' TM Igal L Hink Friesland Penetria Salvia / Boivia hemoropo (Pink Friesland) Igal I Murple Constitutor / Echinacia purpundo Prigrus Igal I Murple Constitutor / Echinacia purpundo (Pink Friesland) Igal I Murple Constitutor / Echinacia purpundo (Pink Friesland) Igal SEE GTM CoMMON / BOTANCAL NAME Sizt 24 Dirart Frontacin Gross / Mescantrus sirensis Youyshina' 5 gal 3 Dirart Frontacin Gross / Mescantrus sirensis Youyshina' 5 gal 6 Paersters Reed Bross / Ga magnazits acutifolia 'Kor Flaenster' 5 gal 10 Malaen Gross / Mescantrus sirensis Youtifula 'Kor Flaenster' 5 gal 20 CoMMON / BOTANCAL NAME Sizt 20 Malaen Gross / Mescantrus sirensis Youtifula 'Kor Flaenster' 5 gal 20 Malaen Gross / Mescantrus sirensis 'Gracii Irus' 5 gal 20 CoMMON / BOTANCAL NAME Sizt 20 Common Cost / Mescantrus sirensis 'Gracii Irus' 5 gal 20 Common Cost / Mescantrus and seage wortechatirus' 5 gal 20<td>CH (B) Kinis Knae High "Urple Constitute / Echinacia purpurea 'Kinis Knae High' TM [ga] 2 24 Pink Friestord Penerria Salvia / Solvia nemonos Pink Friestand [ga] 3 Murple Constituter / Echinacea purpurea 'Magnus [ga] 34 Pink Friestord Penerria Salvia / Solvia nemonoso 'Pink Friestand [ga] 35 Murple Constituter / Echinacea purpurea 'Magnus [ga] 36 Vorlegated Liricose nuscon! 'Veriegate' [ga] 355 OTM COMMON / BOTANICAL NAME SIZE 24 Dinoff Foundon Gross / Mescathrus sinensis 'Taxushing' 5 (da] 36 Duarf Moder Gross / Mescathrus sinensis 'Taxushing' 5 (da] 36 Pinarf Foundon Gross / Mescathrus sinensis 'Taxushing' 5 (da] 36 Pinarf Routed Gross / Mescathrus sinensis 'Taxushing' 5 (da] 36 Pinarf Routed Gross / Mescathrus sinensis 'Graci Hus' 5 (da] 37 O'Malan Gross / Mescathrus sinensis 'Graci Hus' 5 (da] 38 Gordifon Gross / Mescathrus sinensis 'Graci Hus' 5 (da] 39 Gross / Mescathrus sinensis 'Graci Hus' 5 (da] 395 Gross / Solm corp'/ Sodm cortischalium 2.25' Pot</td><td>CH D Kim & Knae High "Anple Genetilower / Echinacea purpured "Kim's Knae High TM gal 44 Firk Friesland Perenna Galvia / Solvia hemotose "Pirk Friesland Igal 4 Firk Friesland Perenna Galvia / Solvia hemotose "Pirk Friesland Igal 4 Firk Friesland Perenna Galvia / Solvia hemotose "Pirk Friesland Igal 34 Variegated Linkose / Linkose huscant Variegate' Igal 555 GTM GotMon / BOTANCAL NAME Sizz 24 Dirart Foundah Grass / Mescantrus shrans's Yakushina' 5 gal 35 Dirart Foundah Grass / Mescantrus shrans's Yakushina' 5 gal 36 Freesters Kaed Strass / Cale amagnostis acutifolis Kan Floerston' 5 gal 36 Freesters Kaed Strass / Cale amagnostis acutifolis Kan Floerston' 5 gal 36 Gorange Stoneurop / Sedum kerniskaticum 225' Rot 355 Grange Stoneurop / Sedum kerniskaticum 225' Rot 355 Grange Stoneurop / Sedum kerniskaticum 225' Rot 355 Fremsylvania Sedge / Carex bensylvanica 2 Ot is 12' 00</td><td>CH (b) Kims Knae High Purple Cenef lower / Echinecea purpuned Kim's Knae High' TM (gai) CH Firk Friestond Penerria Galvia / Bolvia remotoso 'Pink Friestand (gai) Image: Im</td><td>CH D KHS KHS<</td><td>B Kinis Knee High Purple Constituter / Echinacea purpures "Kinis Knee High TM Igal - 44 Fink Friestord Penerria Salvio / Solvio nemorose (Fink Friestand) Igal - 4 Purple Constituter / Echinacea purpurea Magnus Igal - 4 Purple Constituter / Echinacea purpurea Magnus Igal - 9 Purple Constituter / Echinacea purpurea Magnus Igal - 94 Purple Constituter / Echinacea purpurea Magnus Igal - 94 Voriegated Lificae / Lificae nuscent Voriegate/ Igal - 55 0TM COMMON / BOTANICAL NAME SizE - 24 Dinart Floutach Gross / Mesonthus sinenis 'Yakushinc' 5 gal - 8 Duart Floutach Gross / Mesonthus sinenis 'Yakushinc' 5 gal - 86 Floerster's Reed Stross / Cale magnitoria autificitis 'Kori Floerster' 5 gal - 10 Melan Gross / Mesonthus sinenis 'Graci Hus' 5 gal - 00 Melan Gross / Mesonthus sinenis' Graci Hus' 5 gal - 00 Melan Gross / Melan Gross / Graci magnitoria 5 gal - 00 Commes / Melan Gro</td><td>Heile Kins Knae High "Arple Ceneralization" / Exhinaced purpured "Kins Knae High TM Igal Heile Hink Friesland Penerria Salvia / Salvia nemorosa (Pink Friesland) Igal Heile Multipis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hungis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hungis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hongis Constlantar' / Exhinaced purpured Manna Igal Heile Hongis Constlantar' / Exhinaced Purpured Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Bannahi' Igal Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile</td><td>H B Kinis Knae High "urple Canafilewar / Echinacea purpura Kinis Knae High TM Igal - 44 Fink Friestord Penerria Salvia / Solvia nemoroso Pink Friestoni Igal - 4 Fink Friestord Penerria Salvia / Solvia nemoroso Pink Friestoni Igal - 4 Fink Friestord Penerria Solvia / Solvia / Solvia Pink Friestoni Igal - 4 Function Constituter / Echinacea purpurea Igal - 94 Voriegated Lineae / Lineae Huseria Variegato' Igal SES OTH COMMON / BOTANICAL NAME SizE 24 Divert Frontoni Gross / Mescaritrue a peourolasa 'Hamain' 5 gal 36 Duart Moder Gross / Mescaritrue sitemale 'Taushima' 5 gal 36 Poarter Reed Stross / Calinage/ Elevationia' 5 gal 30 Fraester Reed Stross / Calinage/ Elevationia' 5 gal 310 Malan Gross / Mescaritrue single 'Graci Inte' 5 gal 325 Orange Stonecrop / Seam sontes's draci Inte' 5 jzzi 328 Orange Stonecrop / Seam sontestatium 2,28' Pot 329 Pot Seam Stonecrop / Seam sontestatium 454 sf Peneu/vania Seaga / Cor</td><td>Heile Kinis Knae High "Urple Canaflewar / Echinacea purpurea 'Kinis Knae High' TM Igal Heile Hink Friestord Penerria Salivia / Solvia nemonas (Pink Friestand) Igal Heile Murple Constitunar / Echinacea purpurea Magnus Igal Heile Murple Constitunar / Echinacea purpurea Magnus Igal Heile Murple Constitunar / Echinacea purpurea Magnus Igal Stat Off CoMMON / BOTAMICAL NAME Stat Stat Dinart Flowtoin Gross / Mesonthus sinensis Yawasilma' 5 gai A Dinart Flowtoin Gross / Mesonthus sinensis Yawasilma' 5 gai B Dinart Flowtoin Gross / Mesonthus sinensis Yawasilma' 5 gai B Flowtoin Gross / Mesonthus sinensis Yawasilma' 5 gai D Odien Gross / Mesonthus sinensis 'Graci Hine' 5 gai D CoVERs Off CoMMON / BOTANICAL NAME SB Orange Stonecrop / Seam wortschature Sizz OS Off CoMMON / BOTANICAL NAME Sizz SB Orange Stonecrop / Seam wortschature Sizz OS Off and Prose / Mesonthus and solver a publicature Sizz OS Orange Stonecrop / Seam wortscha</td><td>H H Kins Knae High "urple Constituter / Exhinacea purpure Nim's Knae High TM I get 44 Firks Friesland Ferenria Salvia / Solvia nenoroso (Firk Friesland I get 4 Firks Friesland Ferenria Salvia / Solvia nenoroso (Firk Friesland I get 4 Firks Friesland Exhina / Solvia nenoroso (Firk Friesland I get 3 Murpis Constituter / Exhinacea purpure Margata I get 34 Voriegated Lirkose / Lirkose huscari Voriegate I get 555 GTM CoMMON / BOTANCAL NAME Sizt 24 Dirart Feunisch Gross / Meschrink sinenie Yokuşhina' 5 get 35 Dirart Feunisch Gross / Meschrink sinenie Yokuşhina' 5 get 36 Dirart Feunisch Gross / Meschrink sinenie Yokuşhina' 5 get 36 Poerster Skeed Stross / Get andgrossi authfolia 'Kor Feorster' 5 get 37 CoMMON / BOTANCAL NAME Sizt 38 Gross / Meschrink sinenie Yokuşhina' 5 get 39 Gorage Stonecrop / Sodun kontechaticum Sizt 39 Gross / Meschrink sinenie Yokuşhina' 5 get 39 Gross / Meschrink sinenie Yokuşhina' 5 get 39 Gross Stonecrop / Sodun k</td><td>Heile Kinis Knae High "Urple Canaflewar / Echinacea purpurea 'Kinis Knae High' TM Igal Heile Hink Friestord Penerria Salivia / Solvia nemonas (Pink Friestand) Igal Heile Murple Constitunar / Echinacea purpurea Magnus Igal B Murple Constitunar / Echinacea purpurea Magnus Igal B Voriegated Livicear / Livice neusoni Variegata' Igal SE5 OTM COMMON / BOTANICAL NAME SizE 24 Dirart Fountain Grass / Mesonthus sinensis Yawashina' B dail 6 Duart Moder Grass / Mesonthus sinensis Yawashina' B dail 00 Melan Grass / Mesonthus sinensis Yawashina' B dail 01 Moder Grass / Mesonthus sinensis 'Graci Linus' B dail 02 Foortant & Roed Stross / Calinggatia cubifolia 'Kori Foortant' B gai 02 Malan Grass / Mesonthus enersis 'Graci Linus' B jazi 03 Duart Moder Grass / Mesonthus enersis 'Graci Linus' B jazi 04 Molan Grass / Mesonthus enersis 'Graci Linus' B jazi 05 Gramp Stonecrap / Seam wortschatium Sizi 05 Gramp Stonecrap / Seam wortschatium Sizi' Pot 05 Gail Sizi' Pot<td>H H Kim Kinas High Purple Constitution / Exhibition temporators Kim's Kinas High TM Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Sonations / Echinoca purpured Magnits Iggi H B Origotad Lificas / Lificas muscant Voriegato' Iggi SES GT ComMoN / BOTANCAL NAME BIZE SES Dirart Foundation Gross / Mescaturus sitemis' Yokuşalınd' B B dol B Dirart Foundation Gross / Mescaturus sitemis' Yokuşalınd' B B dol B Pareston & Read Since / Camagnozitis acutifolis Kor Floarstor' B gal D OO Masant Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO Masant Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO GotAlen Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO GotAlen Gross / Mescaturus sitemis' Yokuşalıtıs BiZE OO GotAlen Y & BOTANCAL NAME BiZE 25' Pot</td></td></td></tr<> | B Kimis Knae High Purple Constitute / Echinacia purpurea Kimis Knae High TM Igal 44 Pink Friestord Penerria Salvio / Solvio nemonose 'Pink Friestand' Igal 4 Pink Friestord Penerria Salvio / Solvio nemonose 'Pink Friestand' Igal 4 Pink Friestord Penerria Salvio / Solvio nemonose 'Pink Friestand' Igal 54 Pink Friestord Penerria Salvio / Solvio nemonose 'Pink Friestand' Igal 54 Variegated Linicae / Linice neuscarl Mariegato' Igal 555 OTM COMMON / BOTANICAL NAME SIZE 24 Dinart Foundoin Grass / Mescantrus sirensis 'Taxashima' 5 gal 6 Dinart Foundoin Grass / Mescantrus sirensis 'Taxashima' 5 gal 6 Foerster Seed Srass / Calomagnetia acutifolia 'Kari Foerster' 5 gal 6 Foerster Seed Srass / Calomagnetia acutifolia 'Kari Foerster' 5 gal 7 O'Malan Grass / Mescantrus sirensis 'Graci Imus' 5 gal 8 O'Malan Grass / Mescantrus sirensis 'Graci Imus' 5 gal 9 O'Malan Grass / Bodim kortschaticim 5 jigal 9 O'Malan Grass / Bodim kortschaticim 5 jigal 9 Grange Standards / Mescantrus sirensis 'Graci Imus' 5 jigal 9 Grange Standards / Grass / Carex densylvorica 2 ot s i 2' oc 9 Selam kortschat | CH ID Kims Knae High Purple Constitution / Echinacaa purpundo Kim's Knae High' TM Igal L Hink Friesland Penetria Salvia / Boivia hemoropo (Pink Friesland) Igal I Murple Constitutor / Echinacia purpundo Prigrus Igal I Murple Constitutor / Echinacia purpundo (Pink Friesland) Igal I Murple Constitutor / Echinacia purpundo (Pink Friesland) Igal SEE GTM CoMMON / BOTANCAL NAME Sizt 24 Dirart Frontacin Gross / Mescantrus sirensis Youyshina' 5 gal 3 Dirart Frontacin Gross / Mescantrus sirensis Youyshina' 5 gal 6 Paersters Reed Bross / Ga magnazits acutifolia 'Kor Flaenster' 5 gal 10 Malaen Gross / Mescantrus sirensis Youtifula 'Kor Flaenster' 5 gal 20 CoMMON / BOTANCAL NAME Sizt 20 Malaen Gross / Mescantrus sirensis Youtifula 'Kor Flaenster' 5 gal 20 Malaen Gross / Mescantrus sirensis 'Gracii Irus' 5 gal 20 CoMMON / BOTANCAL NAME Sizt 20 Common Cost / Mescantrus sirensis 'Gracii Irus' 5 gal 20 Common Cost / Mescantrus and seage wortechatirus' 5 gal 20 <td>CH (B) Kinis Knae High "Urple Constitute / Echinacia purpurea 'Kinis Knae High' TM [ga] 2 24 Pink Friestord Penerria Salvia / Solvia nemonos Pink Friestand [ga] 3 Murple Constituter / Echinacea purpurea 'Magnus [ga] 34 Pink Friestord Penerria Salvia / Solvia nemonoso 'Pink Friestand [ga] 35 Murple Constituter / Echinacea purpurea 'Magnus [ga] 36 Vorlegated Liricose nuscon! 'Veriegate' [ga] 355 OTM COMMON / BOTANICAL NAME SIZE 24 Dinoff Foundon Gross / Mescathrus sinensis 'Taxushing' 5 (da] 36 Duarf Moder Gross / Mescathrus sinensis 'Taxushing' 5 (da] 36 Pinarf Foundon Gross / Mescathrus sinensis 'Taxushing' 5 (da] 36 Pinarf Routed Gross / Mescathrus sinensis 'Taxushing' 5 (da] 36 Pinarf Routed Gross / Mescathrus sinensis 'Graci Hus' 5 (da] 37 O'Malan Gross / Mescathrus sinensis 'Graci Hus' 5 (da] 38 Gordifon Gross / Mescathrus sinensis 'Graci Hus' 5 (da] 39 Gross / Mescathrus sinensis 'Graci Hus' 5 (da] 395 Gross / Solm corp'/ Sodm cortischalium 2.25' Pot</td> <td>CH D Kim & Knae High "Anple Genetilower / Echinacea purpured "Kim's Knae High TM gal 44 Firk Friesland Perenna Galvia / Solvia hemotose "Pirk Friesland Igal 4 Firk Friesland Perenna Galvia / Solvia hemotose "Pirk Friesland Igal 4 Firk Friesland Perenna Galvia / Solvia hemotose "Pirk Friesland Igal 34 Variegated Linkose / Linkose huscant Variegate' Igal 555 GTM GotMon / BOTANCAL NAME Sizz 24 Dirart Foundah Grass / Mescantrus shrans's Yakushina' 5 gal 35 Dirart Foundah Grass / Mescantrus shrans's Yakushina' 5 gal 36 Freesters Kaed Strass / Cale amagnostis acutifolis Kan Floerston' 5 gal 36 Freesters Kaed Strass / Cale amagnostis acutifolis Kan Floerston' 5 gal 36 Gorange Stoneurop / Sedum kerniskaticum 225' Rot 355 Grange Stoneurop / Sedum kerniskaticum 225' Rot 355 Grange Stoneurop / Sedum kerniskaticum 225' Rot 355 Fremsylvania Sedge / Carex bensylvanica 2 Ot is 12' 00</td> <td>CH (b) Kims Knae High Purple Cenef lower / Echinecea purpuned Kim's Knae High' TM (gai) CH Firk Friestond Penerria Galvia / Bolvia remotoso 'Pink Friestand (gai) Image: Im</td> <td>CH D KHS KHS<</td> <td>B Kinis Knee High Purple Constituter / Echinacea purpures "Kinis Knee High TM Igal - 44 Fink Friestord Penerria Salvio / Solvio nemorose (Fink Friestand) Igal - 4 Purple Constituter / Echinacea purpurea Magnus Igal - 4 Purple Constituter / Echinacea purpurea Magnus Igal - 9 Purple Constituter / Echinacea purpurea Magnus Igal - 94 Purple Constituter / Echinacea purpurea Magnus Igal - 94 Voriegated Lificae / Lificae nuscent Voriegate/ Igal - 55 0TM COMMON / BOTANICAL NAME SizE - 24 Dinart Floutach Gross / Mesonthus sinenis 'Yakushinc' 5 gal - 8 Duart Floutach Gross / Mesonthus sinenis 'Yakushinc' 5 gal - 86 Floerster's Reed Stross / Cale magnitoria autificitis 'Kori Floerster' 5 gal - 10 Melan Gross / Mesonthus sinenis 'Graci Hus' 5 gal - 00 Melan Gross / Mesonthus sinenis' Graci Hus' 5 gal - 00 Melan Gross / Melan Gross / Graci magnitoria 5 gal - 00 Commes / Melan Gro</td> <td>Heile Kins Knae High "Arple Ceneralization" / Exhinaced purpured "Kins Knae High TM Igal Heile Hink Friesland Penerria Salvia / Salvia nemorosa (Pink Friesland) Igal Heile Multipis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hungis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hungis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hongis Constlantar' / Exhinaced purpured Manna Igal Heile Hongis Constlantar' / Exhinaced Purpured Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Bannahi' Igal Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile</td> <td>H B Kinis Knae High "urple Canafilewar / Echinacea purpura Kinis Knae High TM Igal - 44 Fink Friestord Penerria Salvia / Solvia nemoroso Pink Friestoni Igal - 4 Fink Friestord Penerria Salvia / Solvia nemoroso Pink Friestoni Igal - 4 Fink Friestord Penerria Solvia / Solvia / Solvia Pink Friestoni Igal - 4 Function Constituter / Echinacea purpurea Igal - 94 Voriegated Lineae / Lineae Huseria Variegato' Igal SES OTH COMMON / BOTANICAL NAME SizE 24 Divert Frontoni Gross / Mescaritrue a peourolasa 'Hamain' 5 gal 36 Duart Moder Gross / Mescaritrue sitemale 'Taushima' 5 gal 36 Poarter Reed Stross / Calinage/ Elevationia' 5 gal 30 Fraester Reed Stross / Calinage/ Elevationia' 5 gal 310 Malan Gross / Mescaritrue single 'Graci Inte' 5 gal 325 Orange Stonecrop / Seam sontes's draci Inte' 5 jzzi 328 Orange Stonecrop / Seam sontestatium 2,28' Pot 329 Pot Seam Stonecrop / Seam sontestatium 454 sf Peneu/vania Seaga / Cor</td> <td>Heile Kinis Knae High "Urple Canaflewar / Echinacea purpurea 'Kinis Knae High' TM Igal Heile Hink Friestord Penerria Salivia / Solvia nemonas (Pink Friestand) Igal Heile Murple Constitunar / Echinacea purpurea Magnus Igal Heile Murple Constitunar / Echinacea purpurea Magnus Igal Heile Murple Constitunar / Echinacea purpurea Magnus Igal Stat Off CoMMON / BOTAMICAL NAME Stat Stat Dinart Flowtoin Gross / Mesonthus sinensis Yawasilma' 5 gai A Dinart Flowtoin Gross / Mesonthus sinensis Yawasilma' 5 gai B Dinart Flowtoin Gross / Mesonthus sinensis Yawasilma' 5 gai B Flowtoin Gross / Mesonthus sinensis Yawasilma' 5 gai D Odien Gross / Mesonthus sinensis 'Graci Hine' 5 gai D CoVERs Off CoMMON / BOTANICAL NAME SB Orange Stonecrop / Seam wortschature Sizz OS Off CoMMON / BOTANICAL NAME Sizz SB Orange Stonecrop / Seam wortschature Sizz OS Off and Prose / Mesonthus and solver a publicature Sizz OS Orange Stonecrop / Seam wortscha</td> <td>H H Kins Knae High "urple Constituter / Exhinacea purpure Nim's Knae High TM I get 44 Firks Friesland Ferenria Salvia / Solvia nenoroso (Firk Friesland I get 4 Firks Friesland Ferenria Salvia / Solvia nenoroso (Firk Friesland I get 4 Firks Friesland Exhina / Solvia nenoroso (Firk Friesland I get 3 Murpis Constituter / Exhinacea purpure Margata I get 34 Voriegated Lirkose / Lirkose huscari Voriegate I get 555 GTM CoMMON / BOTANCAL NAME Sizt 24 Dirart Feunisch Gross / Meschrink sinenie Yokuşhina' 5 get 35 Dirart Feunisch Gross / Meschrink sinenie Yokuşhina' 5 get 36 Dirart Feunisch Gross / Meschrink sinenie Yokuşhina' 5 get 36 Poerster Skeed Stross / Get andgrossi authfolia 'Kor Feorster' 5 get 37 CoMMON / BOTANCAL NAME Sizt 38 Gross / Meschrink sinenie Yokuşhina' 5 get 39 Gorage Stonecrop / Sodun kontechaticum Sizt 39 Gross / Meschrink sinenie Yokuşhina' 5 get 39 Gross / Meschrink sinenie Yokuşhina' 5 get 39 Gross Stonecrop / Sodun k</td> <td>Heile Kinis Knae High "Urple Canaflewar / Echinacea purpurea 'Kinis Knae High' TM Igal Heile Hink Friestord Penerria Salivia / Solvia nemonas (Pink Friestand) Igal Heile Murple Constitunar / Echinacea purpurea Magnus Igal B Murple Constitunar / Echinacea purpurea Magnus Igal B Voriegated Livicear / Livice neusoni Variegata' Igal SE5 OTM COMMON / BOTANICAL NAME SizE 24 Dirart Fountain Grass / Mesonthus sinensis Yawashina' B dail 6 Duart Moder Grass / Mesonthus sinensis Yawashina' B dail 00 Melan Grass / Mesonthus sinensis Yawashina' B dail 01 Moder Grass / Mesonthus sinensis 'Graci Linus' B dail 02 Foortant & Roed Stross / Calinggatia cubifolia 'Kori Foortant' B gai 02 Malan Grass / Mesonthus enersis 'Graci Linus' B jazi 03 Duart Moder Grass / Mesonthus enersis 'Graci Linus' B jazi 04 Molan Grass / Mesonthus enersis 'Graci Linus' B jazi 05 Gramp Stonecrap / Seam wortschatium Sizi 05 Gramp Stonecrap / Seam wortschatium Sizi' Pot 05 Gail Sizi' Pot<td>H H Kim Kinas High Purple Constitution / Exhibition temporators Kim's Kinas High TM Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Sonations / Echinoca purpured Magnits Iggi H B Origotad Lificas / Lificas muscant Voriegato' Iggi SES GT ComMoN / BOTANCAL NAME BIZE SES Dirart Foundation Gross / Mescaturus sitemis' Yokuşalınd' B B dol B Dirart Foundation Gross / Mescaturus sitemis' Yokuşalınd' B B dol B Pareston & Read Since / Camagnozitis acutifolis Kor Floarstor' B gal D OO Masant Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO Masant Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO GotAlen Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO GotAlen Gross / Mescaturus sitemis' Yokuşalıtıs BiZE OO GotAlen Y & BOTANCAL NAME BiZE 25' Pot</td></td> | CH (B) Kinis Knae High "Urple Constitute / Echinacia purpurea 'Kinis Knae High' TM [ga] 2 24 Pink Friestord Penerria Salvia / Solvia nemonos Pink Friestand [ga] 3 Murple Constituter / Echinacea purpurea 'Magnus [ga] 34 Pink Friestord Penerria Salvia / Solvia nemonoso 'Pink Friestand [ga] 35 Murple Constituter / Echinacea purpurea 'Magnus [ga] 36 Vorlegated Liricose nuscon! 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- 94 Purple Constituter / Echinacea purpurea Magnus Igal - 94 Voriegated Lificae / Lificae nuscent Voriegate/ Igal - 55 0TM COMMON / BOTANICAL NAME SizE - 24 Dinart Floutach Gross / Mesonthus sinenis 'Yakushinc' 5 gal - 8 Duart Floutach Gross / Mesonthus sinenis 'Yakushinc' 5 gal - 86 Floerster's Reed Stross / Cale magnitoria autificitis 'Kori Floerster' 5 gal - 10 Melan Gross / Mesonthus sinenis 'Graci Hus' 5 gal - 00 Melan Gross / Mesonthus sinenis' Graci Hus' 5 gal - 00 Melan Gross / Melan Gross / Graci magnitoria 5 gal - 00 Commes / Melan Gro | Heile Kins Knae High "Arple Ceneralization" / Exhinaced purpured "Kins Knae High TM Igal Heile Hink Friesland Penerria Salvia / Salvia nemorosa (Pink Friesland) Igal Heile Multipis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hungis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hungis Constlantar' / Exhinaced purpured "Manna" Igal Heile Hongis Constlantar' / Exhinaced purpured Manna Igal Heile Hongis Constlantar' / Exhinaced Purpured Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Exhinaced Pink Friesland Igal Heile Hongis Constlantar' / Bannahi' Igal Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile Heile | H B Kinis Knae High "urple Canafilewar / Echinacea purpura Kinis Knae High TM Igal - 44 Fink Friestord Penerria Salvia / Solvia nemoroso Pink Friestoni Igal - 4 Fink Friestord Penerria Salvia / Solvia nemoroso Pink Friestoni Igal - 4 Fink Friestord Penerria Solvia / Solvia / Solvia Pink Friestoni Igal - 4 Function Constituter / Echinacea purpurea Igal - 94 Voriegated Lineae / Lineae Huseria Variegato' Igal SES OTH COMMON / BOTANICAL NAME SizE 24 Divert Frontoni Gross / Mescaritrue a peourolasa 'Hamain' 5 gal 36 Duart Moder Gross / Mescaritrue sitemale 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D OO GotAlen Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO GotAlen Gross / Mescaturus sitemis' Yokuşalıtıs BiZE OO GotAlen Y & BOTANCAL NAME BiZE 25' Pot</td> | H H Kim Kinas High Purple Constitution / Exhibition temporators Kim's Kinas High TM Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Friestond Penetric Solivio / Exhibition temporators Pink Friestond Iggi H Firk Sonations / Echinoca purpured Magnits Iggi H B Origotad Lificas / Lificas muscant Voriegato' Iggi SES GT ComMoN / BOTANCAL NAME BIZE SES Dirart Foundation Gross / Mescaturus sitemis' Yokuşalınd' B B dol B Dirart Foundation Gross / Mescaturus sitemis' Yokuşalınd' B B dol B Pareston & Read Since / Camagnozitis acutifolis Kor Floarstor' B gal D OO Masant Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO Masant Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO GotAlen Gross / Mescaturus sitemis' Yokuşalınd' B gal D OO GotAlen Gross / Mescaturus sitemis' Yokuşalıtıs BiZE OO GotAlen Y & BOTANCAL NAME BiZE 25' Pot |

PLEASE NOTE: NINE (9) OF THE ELEVEN (11) PROPOSED NEW TREES GROA IN THE SLOA TO MODERATE RANGE OF 82% OF NEW TREES (FLEASE NOTE: ALL PROPOSED TREES ARE REPLACEMENT TREES FROM ORIG NAL BUILD) TREE GROUPINGS:

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6

PROPOSED NEW LANDSCAPE MATERIAL **The District** CHESTERFIELD, MISSOURI

REVISIONS BY awis 8/13/15

93/15 91819

10.318

2/17/20

3/22/20 -4/3/20

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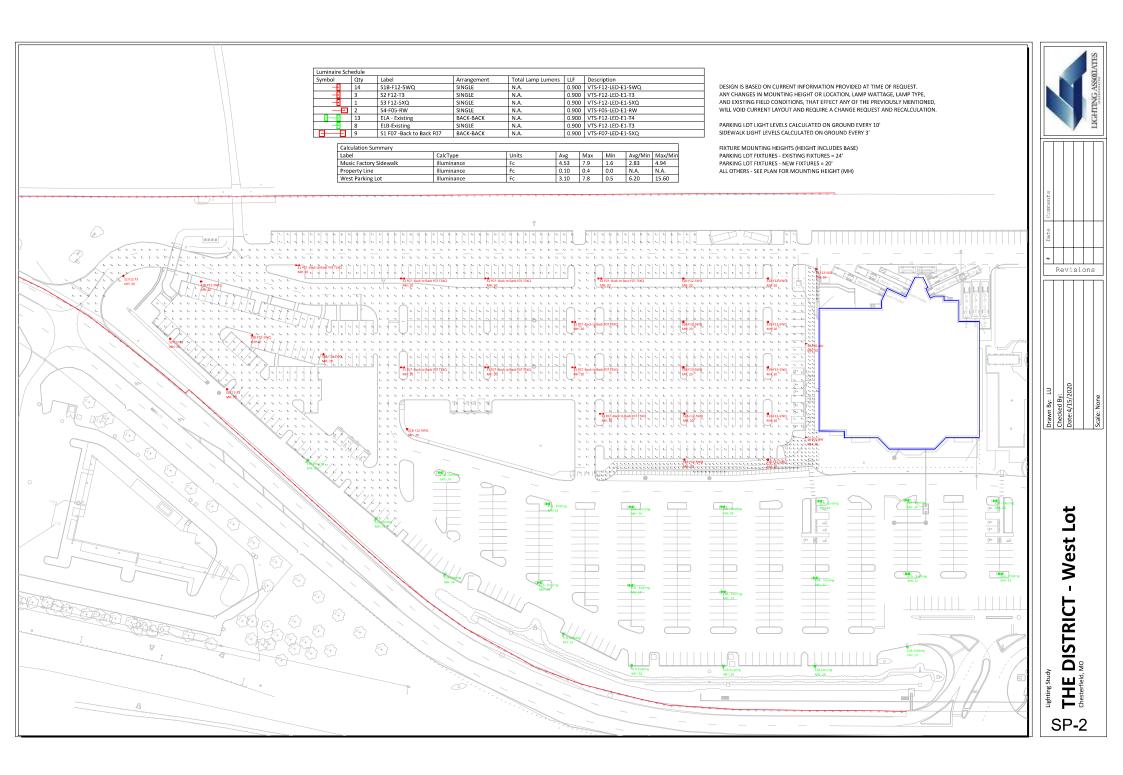
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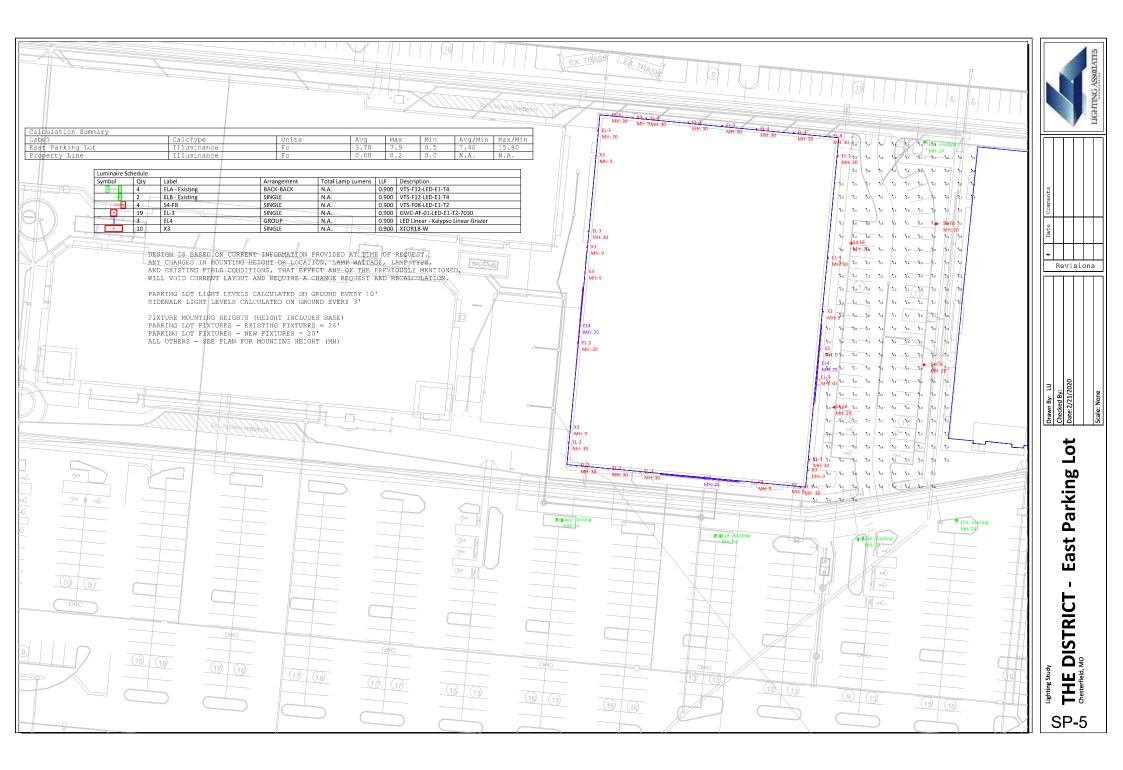
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DESCRIPTION

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.

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 twelve patented, highefficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT. For the ultimate level of spill light control, an optional houseside shield accessory can be field or factory installed. The house-side shield is designed to seamlessly integrate with the SL2, SL3 or SL4 optics.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common and differential - mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Occupancy sensor and dimming options available.

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.D. horizontal tenon, while a two-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment. Tenon adapters available to slipfit over poles equipped with 2-3/8" or 3-1/2" O.D. tenon. 3G vibration rated.

Type

McGraw-Edison

| Project | The District | S1-S3 |
|-------------|--------------|-------|
| Comments | | Date |
| | | |
| Prepared by | | |

Finish

Cast components and arm finished in super TGIC 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 Five-year warranty.



VTS VENTUS LED

> 2 - 12 LightBARs Solid State LED

AREA LUMINAIRE

RECEIVED City of Chesterfield

May 14 2020

Department of Public Services



CERTIFICATION DATA

3G Vibration Rated DesignLights Consortium® Qualified* IP66 LightBARs ISO 9001 LM79 / LM80 Compliant UL/cUL Listed

ENERGY DATA Electronic LED Driver

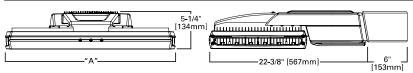
>0.9 Power Factor <20% Total Harmonic Distortion 120-277V/50Hz & 60Hz, 347V/60Hz, 480V/60Hz -40°C Minimum Temperature 40°C Ambient Temperature Rating 50°C Ambient Temperature Rating (HA option)

SHIPPING DATA Approximate Net Weight: (See Tabulated Reference Data)



TD500008EN January 15, 2019 12:49 PM

DIMENSIONS



DIMENSIONAL DATA

| Number of | "A" Width | We | ight | EPA [Squ | are Feet] |
|-----------|-----------------|----------------------|----------------------|-------------|-----------|
| LightBars | A Width | Without Arm | With Arm | Without Arm | With Arm |
| 2-4 | 12-7/8" [328mm] | 24 lbs. [10.91 kgs.] | 29 lbs. [13.18 kgs.] | 0.94 | 1.00 |
| 5-8 | 18" [458mm] | 30 lbs. [13.64 kgs.] | 35 lbs. [15.91 kgs.] | 1.10 | 1.20 |
| 9-12 | 25-7/8" [658mm] | 39 lbs. [17.73 kgs.] | 44 lbs. [20.00 kgs.] | 1.31 | 1.44 |



VTS VENTUS LED

POWER AND LUMENS BY BAR COUNT (21 LED LIGHTBAR)

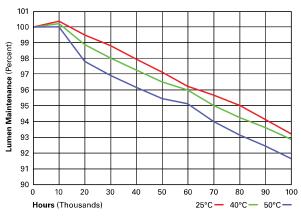
page 2

| Number o | f LightBARs | E02 | E03 | E04 | E05 | E06 | E07 | E08 | E09 | E10 | E11 | E12 |
|------------|-----------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|
| Drive Curr | ent | | | | | 350 | ı)mA Drive Cur | rent | | | | |
| Power (Wa | atts) | 52W | 75W | 97W | 127W | 149W | 173W | 195W | 226W | 247W | 270W | 292W |
| Current @ | 120V (A) | 0.44 | 0.63 | 0.82 | 1.07 | 1.26 | 1.45 | 1.63 | 1.89 | 2.08 | 2.26 | 2.45 |
| Current @ | 277V (A) | 0.20 | 0.28 | 0.36 | 0.48 | 0.56 | 0.64 | 0.71 | 0.84 | 0.92 | 0.99 | 1.07 |
| Power (Wa | atts) | 58W | 82W | 99W | 132W | 159W | 174W | 196W | 227W | 247W | 271W | 293W |
| Current @ | 347V (A) | 0.19 | 0.28 | 0.29 | 0.39 | 0.48 | 0.56 | 0.57 | 0.68 | 0.76 | 0.85 | 0.86 |
| Current @ | 480V (A) | 0.15 | 0.20 | 0.21 | 0.30 | 0.36 | 0.41 | 0.42 | 0.51 | 0.57 | 0.62 | 0.63 |
| T2 | Lumens | 6,173 | 9,260 | 12,347 | 15,434 | 18,520 | 21,607 | 24,694 | 27,780 | 30,867 | 33,954 | 37,041 |
| 12 | BUG Rating | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 |
| ТЗ | Lumens | 6,117 | 9,175 | 12,233 | 15,292 | 18,350 | 21,409 | 24,467 | 27,525 | 30,584 | 33,642 | 36,700 |
| 13 | BUG Rating | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 |
| T4 | Lumens | 5,953 | 8,929 | 11,905 | 14,882 | 17,858 | 20,835 | 23,811 | 26,787 | 29,764 | 32,740 | 35,716 |
| 14 | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| EMO | Lumens | 6,398 | 9,597 | 12,795 | 15,994 | 19,193 | 22,392 | 25,591 | 28,790 | 31,989 | 35,187 | 38,386 |
| 5MQ | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 |
| 5WQ | Lumens | 6,315 | 9,472 | 12,630 | 15,787 | 18,945 | 22,102 | 25,260 | 28,417 | 31,575 | 34,732 | 37,890 |
| 5000 | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| 5XQ | Lumens | 6,325 | 9,488 | 12,650 | 15,813 | 18,975 | 22,138 | 25,301 | 28,463 | 31,626 | 34,788 | 37,951 |
| 570 | BUG Rating | B3-U1-G2 | B3-U1-G3 | B4-U1-G3 | B4-U1-G3 | B4-U1-G4 | B5-U1-G4 | B5-U2-G5 | B5-U2-G5 | B5-U2-G5 | B5-U2-G5 | B5-U2-G5 |
| SL2 | Lumens | 6,018 | 9,026 | 12,035 | 15,044 | 18,053 | 21,061 | 24,070 | 27,079 | 30,088 | 33,096 | 36,105 |
| 312 | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B4-U0-G4 |
| SL3 | Lumens | 6,034 | 9,051 | 12,067 | 15,084 | 18,101 | 21,118 | 24,135 | 27,152 | 30,169 | 33,186 | 36,202 |
| 313 | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 |
| SL4 | Lumens | 5,802 | 8,703 | 11,604 | 14,505 | 17,406 | 20,307 | 23,207 | 26,108 | 29,009 | 31,910 | 34,811 |
| 524 | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| RW | Lumens | 6,231 | 9,346 | 12,462 | 15,577 | 18,692 | 21,808 | 24,923 | 28,039 | 31,154 | 34,270 | 37,385 |
| | BUG Rating | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| SLL/SLR | Lumens | 5,375 | 8,062 | 10,749 | 13,436 | 16,124 | 18,811 | 21,498 | 24,186 | 26,873 | 29,560 | 32,247 |
| JLL/JLN | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |

LUMEN MAINTENANCE

| Ambient Temperature | 25,000 Hours* | 50,000 Hours* | 60,000 Hours* | 100,000 Hours | Theoretical L70 (Hours) |
|------------------------|------------------|------------------|------------------|------------------|----------------------------|
| 25°C | > 99% | > 97% | > 96% | > 93% | > 450,000 |
| 40°C | > 98% | > 97% | > 96% | > 92% | > 425,000 |
| 50°C | > 97% | > 96% | > 95% | > 91% | > 400,000 |

* Per IESNA TM-21 data.



LUMEN MULTIPLIER

| Lumen Nultiplier |
|---------------------|
| 1.02 |
| 1.01 |
| 1.00 |
| 0.99 |
| 0.96 |
| |

LIGHTBAR OPERATION WITH 2L BI-LEVEL SWITCHING OPTION

| Number of LightBars | Circuit 1 | Circuit 2 |
|------------------------|-----------|-----------|
| 2 | 1 | 1 |
| 3 | 2 | 2 |
| 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 |



Specifications and dimensions subject to change without notice.

VTS VENTUS LED

POWER AND LUMENS BY BAR COUNT (7 LED LIGHTBAR)

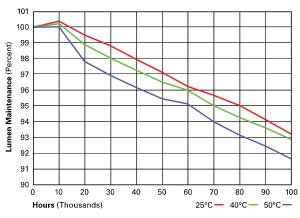
page 3

| Number of | LightBARs | F02 | F03 | F04 | F05 | F06 | F07 | F08 | F09 | F10 | F11 | F12 |
|--------------------|-----------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Drive Current | | 1A Drive Current | | | | | | | | | | |
| Power (Watts) | | 55W | 78W | 102W | 133W | 157W | 180W | 204W | 235W | 259W | 283W | 307W |
| Current @ | 120V (A) | 0.46 | 0.66 | 0.86 | 1.12 | 1.31 | 1.51 | 1.71 | 1.97 | 2.17 | 2.37 | 2.57 |
| Current @ | 277V (A) | 0.21 | 0.29 | 0.37 | 0.50 | 0.58 | 0.66 | 0.74 | 0.88 | 0.96 | 1.04 | 1.12 |
| Power (Watts) | | 60W | 85W | 105W | 137W | 164W | 181W | 204W | 236W | 259W | 284W | 308W |
| Current @ 347V (A) | | 0.19 | 0.28 | 0.30 | 0.41 | 0.49 | 0.58 | 0.60 | 0.71 | 0.79 | 0.88 | 0.90 |
| Current @ | 480V (A) | 0.15 | 0.21 | 0.22 | 0.31 | 0.37 | 0.43 | 0.44 | 0.53 | 0.59 | 0.65 | 0.66 |
| то | Lumens | 5,096 | 7,644 | 10,193 | 12,741 | 15,289 | 17,837 | 20,385 | 22,933 | 25,482 | 28,030 | 30,578 |
| T2 | BUG Rating | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 |
| | Lumens | 5,050 | 7,574 | 10,099 | 12,624 | 15,149 | 17,673 | 20,198 | 22,723 | 25,248 | 27,772 | 30,297 |
| Т3 | BUG Rating | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 |
| T4 | Lumens | 4,914 | 7,371 | 9,828 | 12,285 | 14,742 | 17,199 | 19,656 | 22,114 | 24,571 | 27,028 | 29,485 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| 5MQ | Lumens | 5,281 | 7,922 | 10,563 | 13,204 | 15,844 | 18,485 | 21,126 | 23,767 | 26,407 | 29,048 | 31,689 |
| | BUG Rating | B3-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 |
| 5WQ | Lumens | 5,213 | 7,820 | 10,426 | 13,033 | 15,640 | 18,246 | 20,853 | 23,459 | 26,066 | 28,672 | 31,279 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 |
| 5XQ | Lumens | 5,222 | 7,832 | 10,443 | 13,054 | 15,665 | 18,276 | 20,886 | 23,497 | 26,108 | 28,719 | 31,330 |
| 374 | BUG Rating | B3-U1-G2 | B3-U1-G3 | B4-U1-G3 | B4-U1-G3 | B4-U1-G3 | B4-U1-G4 | B5-U1-G4 | B5-U2-G4 | B5-U2-G5 | B5-U2-G5 | B5-U2-G5 |
| SL2 | Lumens | 4,968 | 7,451 | 9,935 | 12,419 | 14,903 | 17,387 | 19,870 | 22,354 | 24,838 | 27,322 | 29,806 |
| 312 | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| SL3 | Lumens | 4,981 | 7,471 | 9,962 | 12,452 | 14,943 | 17,433 | 19,924 | 22,414 | 24,905 | 27,395 | 29,886 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| SL4 | Lumens | 4,790 | 7,184 | 9,579 | 11,974 | 14,369 | 16,764 | 19,158 | 21,553 | 23,948 | 26,343 | 28,738 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| RW | Lumens | 5,144 | 7,716 | 10,287 | 12,859 | 15,431 | 18,003 | 20,575 | 23,147 | 25,719 | 28,290 | 30,862 |
| | BUG Rating | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| SLL/SLR | Lumens | 4,437 | 6,655 | 8,874 | 11,092 | 13,311 | 15,529 | 17,747 | 19,966 | 22,184 | 24,403 | 26,621 |
| SLL/SLK | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |

LUMEN MAINTENANCE

| Ambient Temperature | 25,000 Hours* | 50,000 Hours* | 60,000 Hours* | 100,000 Hours | Theoretical L70 (Hours) |
|------------------------|------------------|------------------|------------------|------------------|----------------------------|
| 25°C | > 99% | > 97% | > 96% | > 93% | > 450,000 |
| 40°C | > 98% | > 97% | > 96% | > 92% | > 425,000 |
| 50°C | > 97% | > 96% | > 95% | > 91% | > 400,000 |

* Per IESNA TM-21 data.



LUMEN MULTIPLIER

| nbient perature | Lumen Multiplier |
|------------------------|---------------------|
| 10°C | 1.02 |
| 15°C | 1.01 |
| 25°C | 1.00 |
| 40°C | 0.99 |
| 50°C | 0.96 |

LIGHTBAR OPERATION WITH 2L BI-LEVEL SWITCHING OPTION

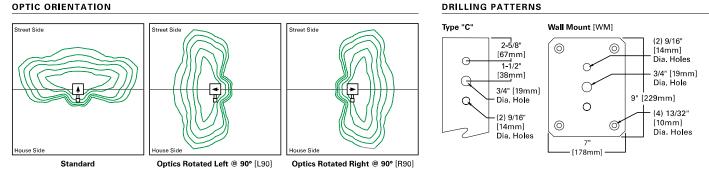
| Number of LightBars | Circuit 1 | Circuit 2 |
|------------------------|-----------|-----------|
| 2 | 1 | 1 |
| 3 | 2 | 2 |
| 4 | 2 | 2 |
| 5 | 3 | 2 |
| 6 | 3 | 3 |
| 7 | 4 | 3 |
| 8 | 4 | 4 |
| 9 | 5 | 4 |
| 10 | 6 | 4 |
| 11 | 7 | 4 |
| 12 | 8 | 4 |



Specifications and dimensions subject to change without notice.

page 4

VTS VENTUS LED



CONTROL OPTIONS

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

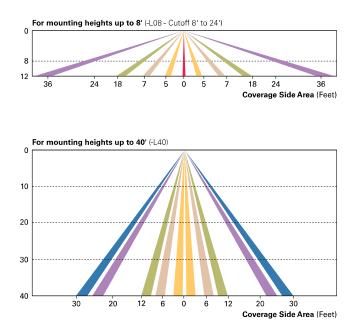
Photocontrol (P, R and PER7)

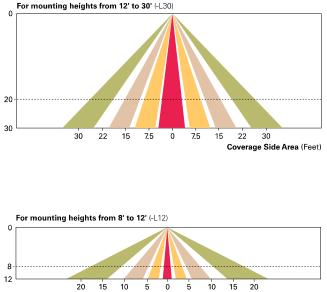
Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting -- the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.





Coverage Side Area (Feet)

WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.



1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD500008EN January 15, 2019 12:49 PM

ORDERING INFORMATION

Comple Number VTC E12 LED E1 T2 CM

| Product Family ^{1, 2} Number of LightBARs ^{3, 4} | | | Lamp Type | Voltage | Distribution | Color Mate | |
|--|---|---|---|--|--|--|--|
| VTS=Ventus | E02=(2) 21 LED LightBARs E03=(3) 21 LED LightBARs E04=(4) 21 LED LightBARs E05=(5) 21 LED LightBARs E05=(6) 21 LED LightBARs E07=(7) 21 LED LightBARs E08=(8) 21 LED LightBARs E09=(9) 21 LED LightBARs E10=(10) 21 LED LightBARs E11=(11) 21 LED LightBARs | F02=(2) 7 LED LightBARs F03=(3) 7 LED LightBARs F04=(4) 7 LED LightBARs F05=(5) 7 LED LightBARs F06=(6) 7 LED LightBARs F08=(8) 7 LED LightBARs F09=(9) 7 LED LightBARs F10=(10) 7 LED LightBARs F11=(11) 7 LED LightBARs | LED=Solid State Light Emitting Diodes | E1=Electronic (120-277V) 347=347V ^{5,6} 480=480V ^{5,6,7} | T2=Type II T3=Type II T4=Type IV 5MO=Type V Square Medium 5WQ=Type V Square Wide 5XQ=Type V Square Extra Wide SL2=Type II with Spill Control SL3=Type II with Spill Control SL4=Type IV with Spill Control RW=Rectangular Wide SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right | AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White | |
| Options (Add as Su | ıffix) | | | Accessories (Order Separately) ²² | | | |
| R=NEMA Twistlock PER7=NEMA 7-PIN HA=50°C High Amt 2L=Two Circuits ^{6,11} L90=Optics Rotate R90=Optics Rotate 7030=70 CRI / 3000 7060=70 CRI / 5000 7060=70 CRI / 5000 7060=700 7060=700 7060=700 7060=700 7060=700 7060=700 7060=700 7060=700 7060=700 7060=700 7000 70 | d 90° Left ¹⁴ d 90° Right ¹⁴ K CCT ¹⁵ K CCT ¹⁵ K CCT ¹⁵ K CCT ¹⁵ Hardware er Plate Matches Housing Fini vith Arm ensor for On/Off Operation ¹⁶ s Sensor for Di-Level Operatior ion Sensor for Dimming Opera | tacle [®] | | VA1033-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon VA1034-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon VA1035-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon VA1036-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon VA1037-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon VA1039-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon VA1039-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon VA1039-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon VA1041-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon VA1041-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon VA1041-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon VA1042-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon VA1043-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon VA1044-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon VA1045-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon VA1046-XX=2@10° Tenon Adapter for 3-1/2" O.D. Tenon VA1046-XX=3@10° Tenon For 3-1/2" O.D. Tenon VA1046-XX=3@10° Tenon For 3-1/2" O.D. Tenon | | | |

NOTES:

 NOTES:

 1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.

 2. 6° arm and round pole adapter included with fixture.

 3. 21 LED LightBAR powered at 350mA, 7 LED LightBAR powered at 1A.

 4. Standard 4000K CCT and nominal 70CRI.

 5. Not available with HA option.

 6. Must specify voltage.

 7. Only for use with 4800 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).

 8. Must specify DIM option to add dimming driver(s). Only available in E02-E06 and F02-F06.

 9. Not available with buttom photocontrol or motion sensor.120 - 277V only.

 11. Requires two electrical circuits to luminaire. See LightBAR operation table for additional information.

 12. Consult factory before ordering in combination with MS-LXX options.

 13. Not available with buttom photocontrol or motion sensor.120 - 277V only.

 14. Not available with buttom photocontrol or add distributions. Not available for endering in combination with MS-LXX options.

 13. Not available with buttom photocontrol or motion sensor.120 - 277V only.

 14. Not available with buttom photocontrol or motion sensor.120 - 277V only.

 15. Extended lead times apply.

15. Extended lead times apply.

16. Sensor housed in external box mounted to the luminaire. Available in E02-E12 and F02-F12 configurations. Replace XX with mounting height in feet for proper lens selection, (e.g., MS-L25). Consult factory for

Sensor housed in external box mounted to the luminaire. Available in E02-E12 and F02-F12 configurations. Replace XX with mounting height in feet for proper lens selection, (e.g., MS-L25). Consult factory for additional information.
 Sensor housed in external box mounted to the luminaire, Available in E02-E12 and F02-F12 configurations. Replace X with number of bars operating in low output mode and replace XX with mounting height in feet for proper lens selection, (e.g., MS/3-L25). Maximum 4 bars in low output mode. Consult factory for additional information.
 Not available with HA option. Only available in F02-F06 and E02-E06. Includes Dimming Drivers. Not available in 347V or 480V.
 Replace XX with mounting height in feet for proper lens selection, (e.g., MS/DIM-L25).
 Available in E02-E06 and E02-F06 only.
 Available in E02-E06 and E02-F06 only.
 Available in E02-E06 and E02-F06 only.
 Available with L2, SL3 and SL4 distributions. Not available with L90 or R90 options.
 Replace XX with color suffix.
 One required for each LightBAR. Not available with L90 or R90 options.
 Beauers Znin SEMA twistlock photecontorle recentacle. The WOIL C-2 connot be used in conjunction with additional sensors or controls.

25. Requires 7-pin NEMA twistlock photocontrol receptacle. The WOLC-7 cannot be used in conjunction with additional sensors or controls.



Specifications and dimensions subject to change without notice.

TD500008EN January 15, 2019 12:49 PM

MEMO

| То: | Mr. Tim Lowe, The Staenberg Group |
|----------|---|
| | Mr. Brian Carp, The Music Factory LLC |
| From: | Ms. Julie Nolfo, PE, PTOE, Lochmueller Group |
| Date: | April 13, 2020 |
| Subject: | Traffic Management Plan for the Music Factory |



GROUP

LOCHMUELLER

As requested by the City of Chesterfield, Lochmueller Group (Lochgroup) has prepared the following Traffic Management Plan (TMP) for events at the proposed 3,000 seat Music Factory Venue within the District. The District is located northeast of the Boones Crossing & Interstate 64 (I-64) interchange, along the north side of North Outer Forty Road in Chesterfield, Missouri. The site is currently developed and is the location of the existing Taubman Prestige Outlets. Figure 1 illustrates the site's location.



Figure 1. Site Location

The Music Factory is anticipated to accommodate approximately 125 events annually; which would equate to 10 or 11 events per month. Events at the concert venue would typically fall outside of the peak hours of the adjacent roadways and commonly on a Friday or Saturday evening, with doors opening at 7:00 PM for a show scheduled to begin at 8:00 PM.

The percentage of patrons utilizing ride sharing services will vary from show to show, as will the vehicle occupancy. Therefore, the traffic impacts associated with any one show could vary significantly; depending upon the demographics of the targeted audience. Shows attractive to younger generations will most likely have higher percentage of ride share trips as well as higher vehicle occupancy. Consequently, the traffic ramifications of the various events at the Music Factory can be challenging to predict. Furthermore, it is unrealistic to assume that an event would occur without some buildup of traffic as patrons attempt to arrive and exit within a concentrated time period.

411 North 10th Street, Suite 200 St. Louis, Missouri 63101 PHONE: 314.621.3395 April 13, 2020 Page 2

Therefore, it is recommended that a TMP be implemented once the venue is operational with the following protocols:

- The western drive to the District would be signed for the Music Factory venue and associated parking.
- A total of 750 parking spaces, inclusive of 14 accessible spaces, would be made available for the use of patrons of the Music Factory.
- The TMP would be enacted if 80% of the 3,000 seats within the venue were sold prior to 48 hours before the event.
- Off-duty police officers would be utilized for traffic control along North Outer Forty Road. The cost associated with all off-duty officers would be absorbed by the venue operator.
- Trained parking attendants would be utilized for traffic control within the parking structure and adjacent surface parking lots.
- Moveable sandwich board signs, with large font type, would be placed according to the TMP.
- Moveable barricades would be placed according to the TMP.
- The attached Figures depict Option A and Option B of the TMP for accommodating *inbound traffic* prior to an event. Option A utilizes a single inbound lane at the western access drive and loads the surface lots to the west of the Music Factory first followed by the adjacent surface parking lots to the north and south. Option B utilizes two inbound lanes (traffic flow would be reversed on the outbound lane) and simultaneously loads all of the surface parking lots west of the Music Factory.
- Based upon the demographics of the event, the operators could enact either Option A or Option B of the TMP for accommodating inbound traffic prior to an event. Should the operators choose Option A and inbound traffic continues to back up on North Outer Forty Road towards Boone's Crossing, the TMP could quickly adjust to Option B to alleviate any queues.
- **Outbound traffic flow**, as depicted in the attached TMP Figures, would be accommodated via two outbound lanes (traffic flow would be reversed on the inbound lane)
- The Music Factory venue would encourage a "slow release" of patron after an event; offering concessions, etc. rather than ushering all patrons out immediately following the show.
- **Ride-share services** would be directed past the western access drive, encouraged to utilize the access drives further to the east on North Outer Forty Road, and directed through the site to the designated drop off lane adjacent to the Music Factory. A staging area for ride-share will be provided at the east end of the District so as to minimize back ups in the vicinity of the designated drop off/pick up lane.

April 13, 2020 Page 3

• Should an event be scheduled to occur during peak periods (4:00 to 6:00 PM weekdays, midday on Saturdays), the operators of the venue would reach out to the Missouri Department of Transportation (MoDOT) at least one week prior to make MoDOT aware of the event and to inquire if adjustments to the traffic signals along Boone's Crossing are necessary. MoDOT has indicated a willingness to assess this need on a case by case basis.

A successful TMP requires a solid working relationship between the venue operator and the agencies that control traffic in the immediate area. Therefore, it is recommended that the venue operator initiate a meeting with the City of Chesterfield Police Department and MoDOT closer to opening. The contacts for these two agencies are as follows:

- City of Chesterfield Police Department Chief Ray Johnson rjohnson@chesterfield.mo.us 636-537-3000
- MoDOT Southwest St. Louis County Ryan Pearcy, PE – Area Engineer
 <u>Ryan.Pearcy@modot.mo.gov</u> 314-453-5086
 Jeff Baird, PE – Senior Traffic Studies Specialist jeffery.baird@modot.mo.gov 314-877-0135

Lastly, it should be acknowledged that the TMP put forth has been developed with input from the operator (The Music Factory LLC), the property manager (The Staenberg Group), MoDOT and the City of Chesterfield. It is recommended that once the venue has been operational for 60 days and the TMP has been employed for a minimum of four events that a meeting with the various entities be held to discuss the advantages and disadvantages of the TMP's implementation, the need to adjust the "triggers" for implementation, etc. Furthermore, it is suggested that an annual review of the TMP be conducted, when desired by either the City of Chesterfield, the operator or the property manager. Should there be a need for any modifications of the TMP in the future, it is recommended that those modifications are documented and would supersede the TMP outlined in this memorandum.

Should you have any questions or concerns, please do not hesitate to contact our offices at 314-446-3791.

