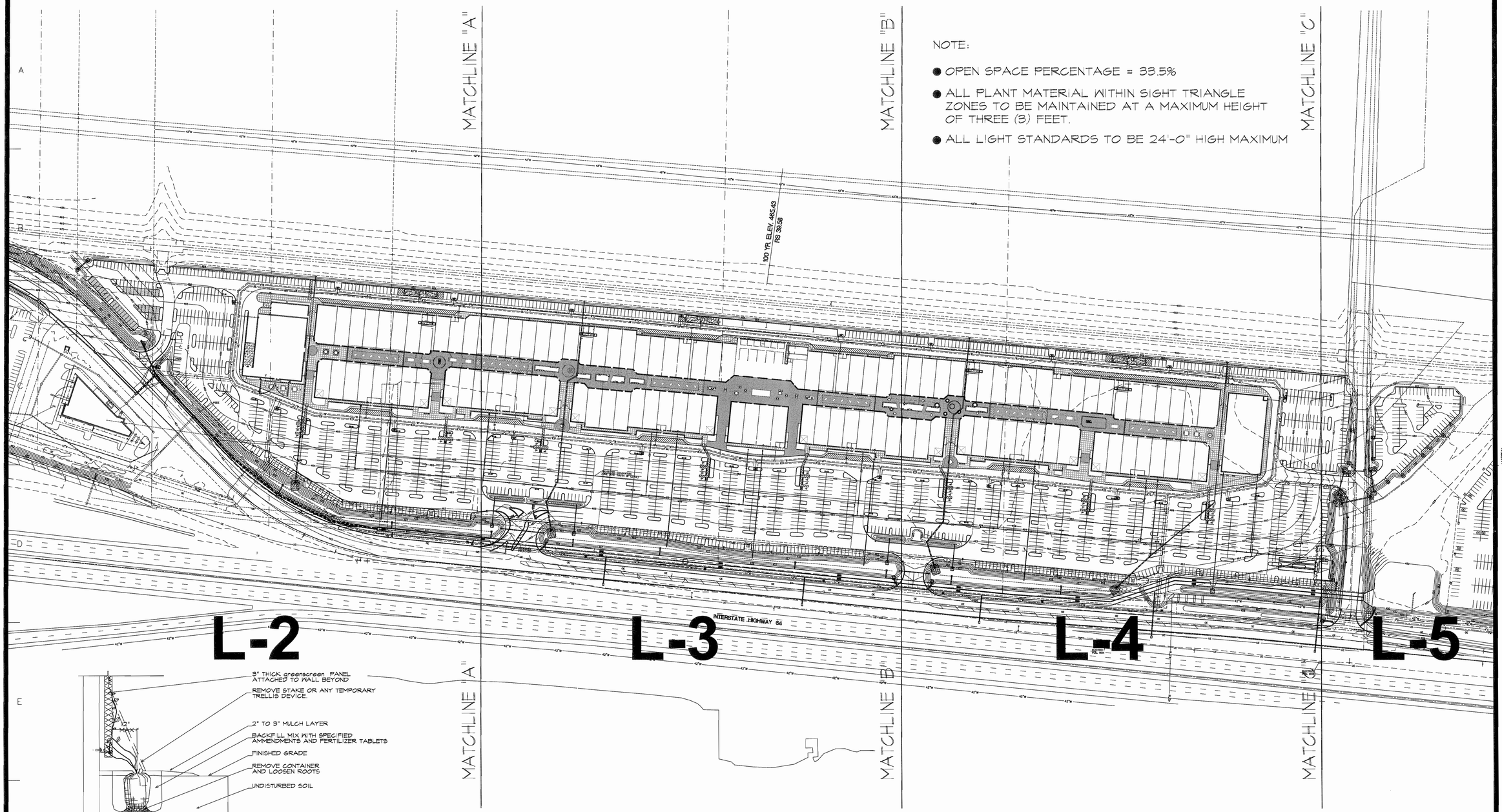
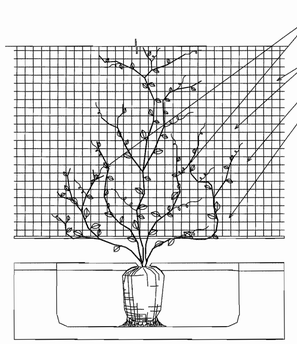
NOTE:

- OPEN SPACE PERCENTAGE = 33.5%
- ALL PLANT MATERIAL WITHIN SIGHT TRIANGLE ZONES TO BE MAINTAINED AT A MAXIMUM HEIGHT OF THREE (3) FEET.
- ALL LIGHT STANDARDS TO BE 24'-0" HIGH MAXIMUM





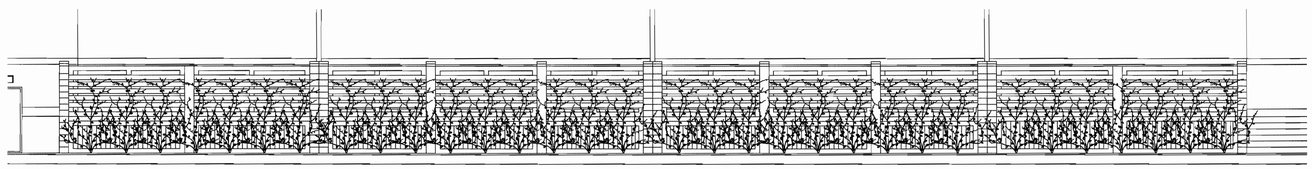
GENERAL NOTES:

- PLANT VINES PER LANDSCAPE PLANS. REQUIRED SPACING IS MAXIMUM OF 4'-0" ON CENTERS.
- IRRIGATION WILL BE REQUIRED

greenscreen® VINE PLANTING DETAIL

N.T.S.

SECTION AND ELEVATION - TYPICAL FOR WALL MOUNTED APPLICATION



MOUNTED greenscreen® WALL - ELEVATION

N.T.S.

REVISIONS	BY
2/15/12	RAM

landscape TECHNOLOGIES
67 Jacobs Creek Drive
St. Charles, Missouri 63304
(636) 928-1250
Fax: (636) 928-4563
MO Landscape Architectural Corporation #2008000182

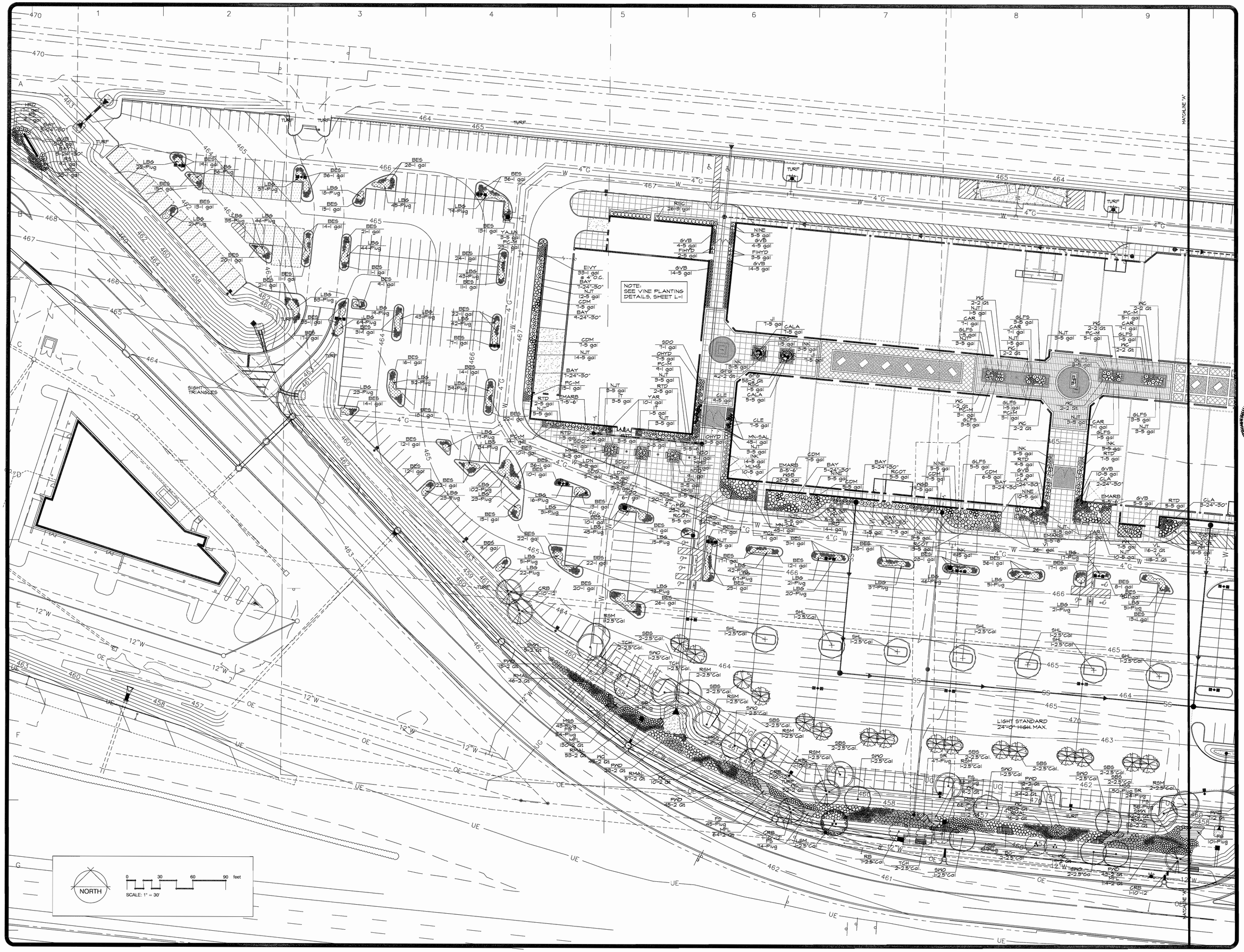
RANDALL W. MARDIS
NUMBER 015
REGISTERED LANDSCAPE ARCHITECT
STATE OF MISSOURI

RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #000015
DATE: 2/15/12

LANDSCAPE MASTER PLAN FOR THE PROPOSED
Chesterfield Outlets
CHESTERFIELD, MISSOURI

DRAWN	R. MARDIS
CHECKED	RAM/GJB
DATE	2/9/12
SCALE	1"=100'-0"
JOB NO.	2011-164
SHEET	L-1

OF SIX SHEETS



REVISIONS	BY
2/15/12	RAM

landscape TECHNOLOGIES

67 Jacobs Creek Drive
St. Charles, Missouri 63304
(636) 928-0350
Fax: (636) 928-5963
MO Landscape Architectural Corporation #2008000782

STATE OF MISSOURI
RANDALL W. MARDIS
NUMBER 919
REGISTERED LANDSCAPE ARCHITECT

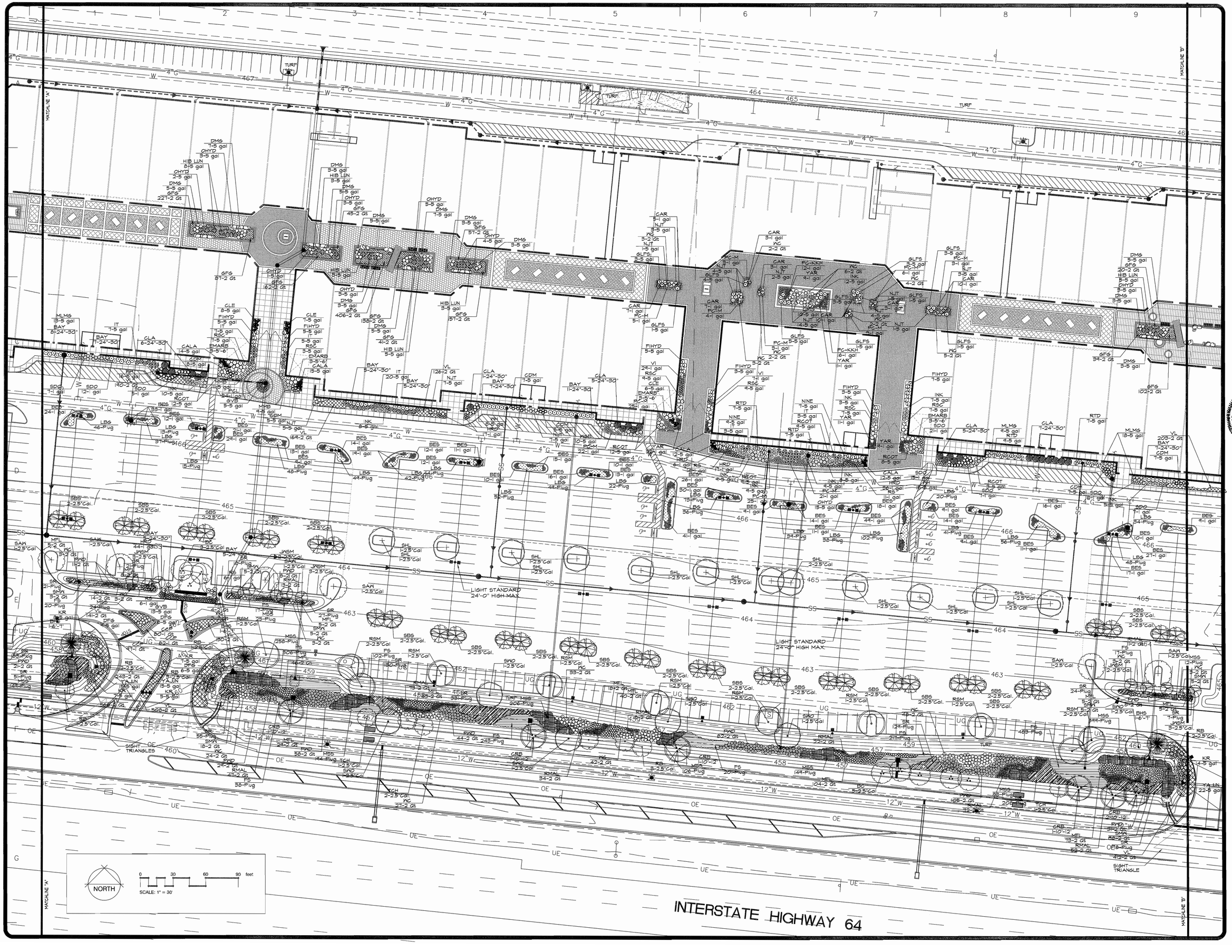
RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #000919
DATE: 2/15/12

PLANTING PLAN FOR THE PROPOSED
Chesterfield Outlets
CHESTERFIELD, MISSOURI

DRAWN	R. MARDIS
CHECKED	RAM/GJB
DATE	2/9/12
SCALE	1"=30'-0"
JOB No.	2011-164
SHEET	L-2

OF SIX SHEETS

REVISIONS	BY
2/15/12	RWM



landscape TECHNOLOGIES

61 Jessica Creek Drive
St. Charles, Missouri 63304
MO Landscape Architectural Corporation #2008000182

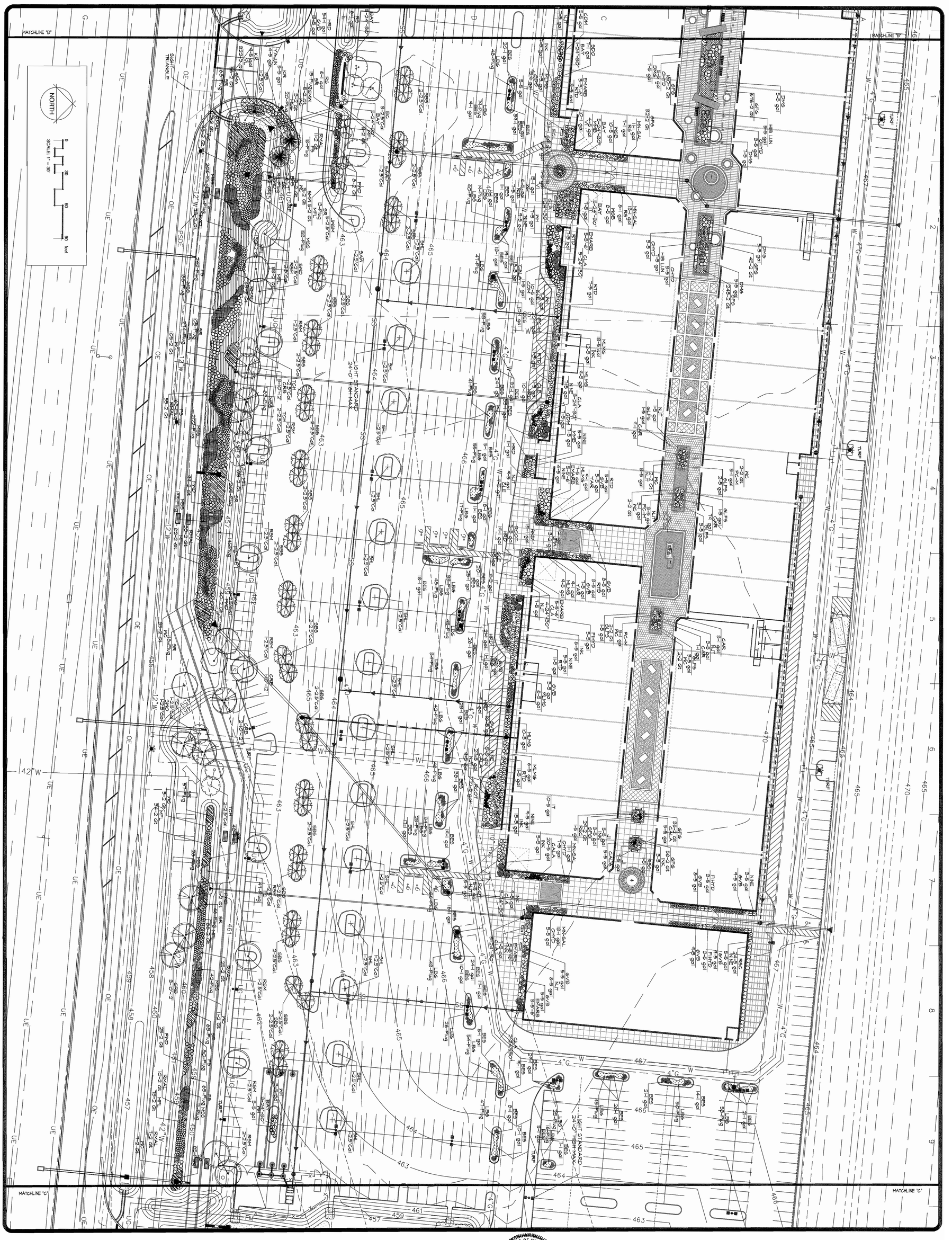
(636) 428-1250
Fax: (636) 428-4565

RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #000014
DATE: 2/15/12

STATE OF MISSOURI
RANDALL W. MARDIS
NUMBER 1031
REGISTERED LANDSCAPE ARCHITECT

PLANTING PLAN FOR THE PROPOSED
Chesterfield Outlets
CHESTERFIELD, MISSOURI

DRAWN	R. MARDIS
CHECKED	RWM/GJB
DATE	2/9/12
SCALE	1"=30'-0"
JOB No.	2011-164
SHEET	L-3
OF SIX SHEETS	



DRAWN	R.MARDIS
CHECKED	R.MARDIS
DATE	2/9/12
SCALE	1"=30'-0"
JOB NO.	2011-164
SHEET	L-4
OF	SIX SHEETS

PLANTING PLAN FOR THE PROPOSED

Chesterfield Outlets

CHESTERFIELD, MISSOURI

STATE OF MISSOURI
RANDALL W. MARDIS
NUMBER 019
REGISTERED LANDSCAPE ARCHITECT

RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #000019
DATE: 2/15/12

landscape TECHNOLOGIES
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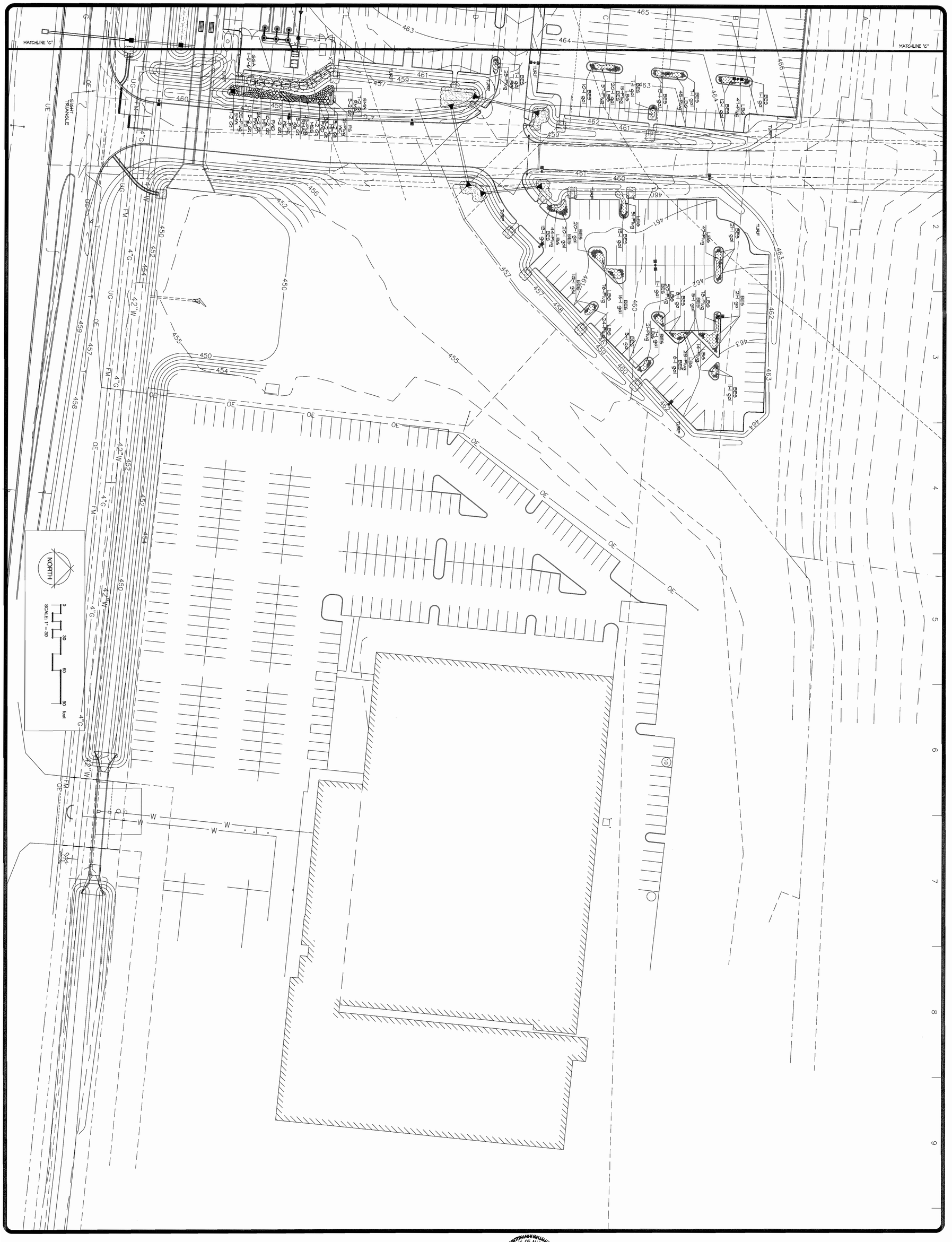
St. Charles, Missouri 63304 Fax: (636) 928-4563
MO Landscape Architectural Corporation #2008000182

REVISIONS	BY
2/15/12	RWM



PLANTING PLAN FOR THE PROPOSED

Chesterfield Outlets

CHESTERFIELD, MISSOURI

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

RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #000019
DATE: 2/15/12

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MO Landscape Architectural Corporation #2008008182

REVISIONS	BY
2/15/12	RWM

DRAWN R. MARDIS
CHECKED RWM/GJB
DATE 2/4/12
SCALE 1"=50'-0"
JOB No. 201-164
SHEET

L-5

OF SIX SHEETS

LANDSCAPE GUIDELINE SPECS:

GENERAL:

1.) All natural vegetation shall be maintained where it does not interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall at all times protect all materials and work against injury to public.

2.) The landscape contractor shall be responsible for any coordination with other site related work being performed by other contractors. Refer to architectural drawings for further coordination of work to be done.

3.) Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of the above (Call 1-800-DIG-RITE).

4.) Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to 6" depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.

5.) It shall be the landscape contractor's responsibility to:
   A.) Verify all existing and proposed features shown on the drawings prior to commencement of work.
   B.) Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
   C.) Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect prior to installation.

6.) Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will be accepted without written approval from the landscape architect.

7.) Provide single-stem trees unless otherwise noted in plant schedule.

8.) All plant material shall comply with the recommendations and requirements of ANSI Z60.1 "American Standards for Nursery Stock".

9.) It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect prior to acceptance. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.

10.) All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning work. This will be a unit price contract.

INSURANCE:

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

MULCH:

1.) All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free of all foreign materials, including weeds, mold, deleterious materials, etc.

2.) No plastic sheeting or filter fabric shall be placed beneath shredded bark mulch beds. Myrafi fabric shall be used beneath all gravel mulch beds.

3.) Edge all beds with spade-cut edge unless otherwise noted.

MAINTENANCE:

1.) Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period of 12 months after acceptance.

2.) Contractor shall ensure that only competent and trained personnel shall provide such services and that such services be provided in a timely manner.

TOPSOIL:

1.) Topsoil mix for all proposed landscape plantings shall be five (5) parts well-drained screened organic topsoil to one (1) part Canadian sphagnum peat moss as per planting details. Roto-till topsoil mix to a depth of 6" minimum and grade smooth.

2.) Provide a soil analysis, as requested, made by an independent soil-testing agency outlining the % of organic matter, inorganic matter, deleterious material, pH and mineral content.

3.) Any foreign topsoil used shall be free of roots, stumps, weeds, brush, stones (larger than 1"), litter or any other extraneous or toxic material.

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

MISC. MATERIAL:

1.) Provide stakes and deadmen of sound, new hardwood, free of knotholes and defects.

2.) Tree wrap tape shall be 4" minimum, designed to prevent borer damage and winter freezing. Additionally, only 3-ply tying material shall be used.

TURF:

1.) All disturbed lawn areas are to be sodded with a high quality Turf Type fescue. Lawn areas shall be unconditionally warranted for a period of 90 days from date of final acceptance. Bare areas more than one square foot per any 50 square feet shall be replaced.

2.) No broken pieces, irregular pieces or torn pieces will be accepted.

3.) All sod shall be placed a maximum of 24 hours after harvesting.

4.) Recondition adjacent existing lawn areas damaged by Contractor's operations including equipment/material storage and movement of vehicles.

WARRANTY:

1.) All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after installation at 100% of the installed price.

2.) Any plant material found to be defective shall be removed and replaced within 30 days of notification or in growth season determined to be best for that plant.

3.) Only one replacement per tree or shrub shall be required at the end of the warranty period, unless loss is due to failure to comply with warranty.

4.) Lawn establishment period will be in effect once the lawn has been mowed three times. Plant establishment period shall commence on the date of acceptance and 100% completion.

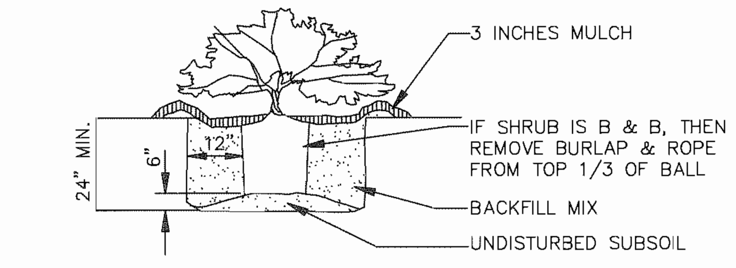
PLANT SCHEDULE

TREES		QTY	COMMON NAME / BOTANICAL NAME	SIZE	MATURE HEIGHT	GROWTH RATE
BC	*DEC	13	Bald Cypress / Taxodium distichum	2.5"Cal	45' +	MEDIUM
CRB	*DEC	21	Heritage River Birch / Betula nigra 'Cully'	10'-12'	45' +	FAST
LSM	*DEC	1	Legacy Sugar Maple / Acer saccharum 'Legacy'	2.5"Cal	45' +	SLOW/MEDIUM
SAW	*DEC	8	Sawtooth Oak / Quercus acutissima	2.5"Cal	45' +	MEDIUM
SWO	*DEC	19	Swamp White Oak / Quercus bicolor	2.5"Cal	45' +	MEDIUM
RSM	*DEC	30	'Red Sunset' Maple / Acer rubrum 'Franksred'	2.5"Cal	45' +	FAST
SHL	*DEC	33	'Skyline' Locust / Gleditsia triacanthos 'Skyline'	2.5"Cal	45' +	FAST
EVERGREEN TREES		QTY	COMMON NAME / BOTANICAL NAME	SIZE	MATURE HEIGHT	GROWTH RATE
BHS	*EV	5	Black Hills Spruce / Picea glauca densata	6'-7'	30'-40'	MEDIUM
EMARB	*EV	70	Emerald Arborvitae / Thuja occidentalis 'Emerald'	5'-6'	30'-40'	MEDIUM
GGA	*EV	11	Green Giant Arborvitae / Thuja plicata 'Green Giant'	5'-6'	45' +	MEDIUM
FLOWERING TREES		QTY	COMMON NAME / BOTANICAL NAME	SIZE	MATURE HEIGHT	GROWTH RATE
RB	*DEC	14	Redbud / Cercis canadensis	2.5"Cal.	25'-30'	FAST
SBS	*DEC	84	Shadblow Serviceberry / Amelanchier canadensis (Single Stem Only)	2.5"Cal.	25'-30'	SLOW/MEDIUM
JWSM	*EV	18	Sweetbay Magnolia / Magnolia virginiana 'Jim Wilson'	2.5"Cal.	15'-20'	MEDIUM
TCH	*DEC	15	Thornless Cockspur Hawthorn / Crataegus crusgalli var. inermis	2.5"Cal.	15'-20'	MEDIUM
SHRUBS		QTY	COMMON NAME / BOTANICAL NAME	SIZE		
RTD	*DEC	117	Bailey's Red-twig Dogwood / Cornus sericea 'Cardinal'	5 gal		
CDM	*DEC	101	Cherry Dazzle Myrtle / Lagerstroemia 'GAMAD I'	5 gal		
CLA	*DEC	51	Chicago Luster Arrowwood / Viburnum dentatum 'Chicago Luster'	24"-30"		
INK	*EV	191	Compact Inkberry / Ilex glabra 'Compacta'	5 gal		
YAJUN	*EV	69	Compact Youngstown Andorra Juniper / Juniperus horizontalis 'Youngstown'	5 gal		
NINE	*DEC	93	Diabolo Purple Ninebark / Physocarpus opulifolius 'Diabolo' TM	5 gal		
FIHYD	*DEC	44	Fire & Ice Hydrangea / Hydrangea paniculata 'Wim's Red'	5 gal		
GVB	*EV	201	Green Velvet Boxwood / Buxus 'Green Velvet'	5 gal		
GLFS	*DEC	62	Gro-Low Fragrant Sumac / Rhus aromatica 'Gro-Low'	5 gal		
LDN	*DEC	9	Little Devil Ninebark / Physocarpus opulifolius 'Donna May'	5 gal		
IT	*DEC	97	Little Henry Sweetspire / Itea virginica 'Little Henry'	5 gal		
MMB	*EV	56	Morris Midget Boxwood / Buxus microphylla japonica 'Morris Midget'	5 gal		
NJT	*DEC	207	New Jersey Tea / Ceanothus americanus	5 gal		
BAY	*EV	145	Northern Bayberry / Myrica pensylvanica	24"-30"		
OHYD	*DEC	77	Oakleaf Hydrangea / Hydrangea quercifolia	5 gal		
WH	*DEC	98	Red Sprite Winterberry / Ilex verticillata 'Red Sprite'	5 gal		
RCOT	*DEC	94	Rock Cotoneaster / Cotoneaster horizontalis	5 gal		
RSC	*DEC	96	Ruby Spice Clethra / Clethra alnifolia 'Ruby Spice'	5 gal		
WGB	*EV	73	Winter Gem Boxwood / Buxus microphylla 'Winter Gem'	5 gal		
CLE	*DEC	76	'Hummingbird' Summersweet / Clethra alnifolia 'Hummingbird'	5 gal		
ANNUALS/PERENNIALS		QTY	COMMON NAME / BOTANICAL NAME	SIZE		
JPW	*DEC	8	Bartered Bride Joe-Pye Weed / Eupatorium maculatum 'Bartered Bride'	2 gal		
CAR	*DEC	102	Cardinal Flower / Lobelia cardinalis	1 gal		
HIB LUN	*DEC	39	Dwarf Hydrangea / Hibiscus moscheutos 'Luna Pink Swirl'	5 gal		
BES	*DEC	2,570	Goldsturm Black-eyed Susan / Rudbeckia fulgida 'Goldsturm'	1 gal		
HRD	*DEC	360	Happy Returns Daylily / Hemerocallis hybrid 'Happy Returns'	1 gal		
JI	*DEC	26	Japanese Iris / Iris ensata	5 gal		
MN-SAL	*DEC	138	May Night Salvia / Salvia nemorosa 'May Night'	1 gal		
PCL	*DEC	78	Pink Chablis Lamium / Lamium maculatum 'Pink Chablis'	1 gal		
PC-M	*DEC	228	Purple Coneflower / Echinacea purpurea 'Magnus'	1 gal		
PC-KKH	*DEC	28	Purple Coneflower / Echinacea purpurea 'Kim's Knee High' TM	1 gal		
RS	*DEC	82	Russian Sage / Perovskia atriplicifolia	1 gal		
SDO	*DEC	150	Stella de Oro Daylily / Hemerocallis hybrid 'Stella de Oro'	1 gal		
VI	*DEC	87	Variegated Iris / Iris pallida 'Variegata'	1 gal		
YAR	*DEC	121	Yarrow / Achillea filipendulina 'Coronation Gold'	1 gal		
FORBS		QTY	COMMON NAME / BOTANICAL NAME	SIZE		
MFL	*DEC	1,438	Monkeyflower / Mimulus ringens	2 Qt		
PWD	*DEC	948	Pickerel Weed / Pontederia cordata	2 Qt		
RMAL	*DEC	909	Rose Mallow / Hibiscus moscheutos	2 Qt		
SMW	*DEC	224	Swamp Milkweed / Asclepias incarnata	2 Qt		
WC	*DEC	649	Wild Canna / Thalia dealbata	2 Qt		
GRASSES		QTY	COMMON NAME / BOTANICAL NAME	SIZE		
DFG	*DEC	23	Dwarf Fountain Grass / Pennisetum alopecuroides 'Hameln'	5 gal		
DMG	*DEC	96	Dwarf Maiden Grass / Miscanthus sinensis 'Yakushima'	5 gal		
CALA	*DEC	140	Foerster's Reed Grass / Calamagrostis acutifolia 'Karl Foerster'	5 gal		
MLMG	*DEC	117	Morning Light Maiden Grass / Miscanthus sinensis 'Morning Light'	5 gal		
ROSES		QTY	COMMON NAME / BOTANICAL NAME	SIZE		
KR	*DEC	55	Knockout Rose / Rosa 'Knockout'	5 gal		
VINES		QTY	COMMON NAME / BOTANICAL NAME	SIZE		
EIVY	*EV	33	English Ivy / Hedera helix	1 gal		
GROUND COVERS		QTY	COMMON NAME / BOTANICAL NAME	SIZE		
CCP		222 sf	Cotton Candy Creeping Phlox / Phlox subulata 'Cotton Candy'	1 Qt @ 12" oc		
VL		2,859 sf	Variegated Liriope / Liriope muscari 'Variegata'	2 Qt @ 12" oc		
NATIVE GRASSES		QTY	COMMON NAME / BOTANICAL NAME	SIZE		
FS		6,432 sf	Fringed Sedge / Carex crinita	Plug @ 18" oc		
GFG		2,467 sf	Golden Foxtail Grass / Alopecurus pratensis 'Aureovariegatus'	2 Qt @ 12" oc		
LBG		7,936 sf	Little Bluestem Grass / Schizachyrium scoparium	Plug @ 18" oc		
MSS		5,924 sf	Morning Star Sedge / Carex grayi	Plug @ 18" oc		
SR		4,806 sf	Soft Rush / Juncus effusus	Plug @ 18" oc		

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

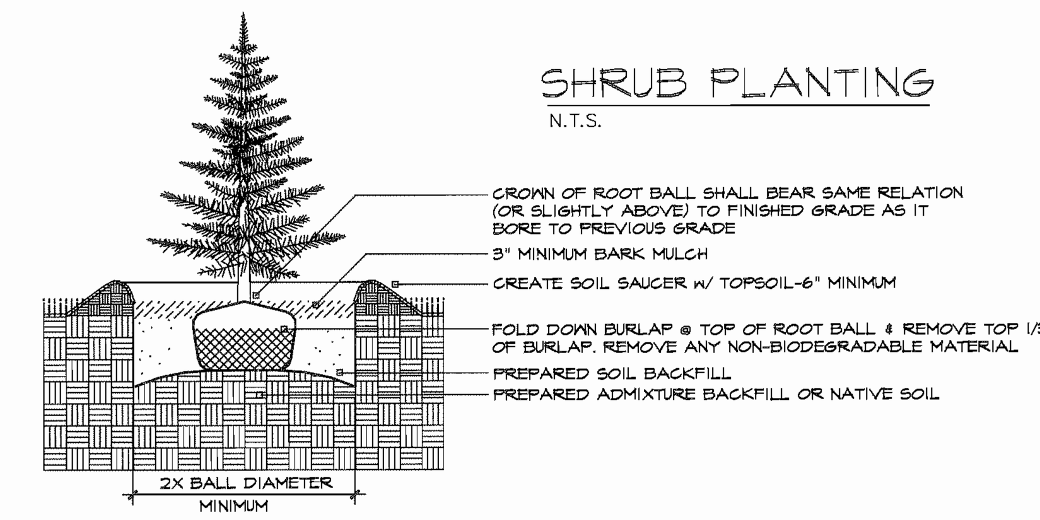
*DEC = deciduous plant material

*EV = evergreen plant material



NOTE: USE SHREDDED BARK MULCH ONLY

SHRUB PLANTING
N.T.S.



EVERGREEN TREE PLANTING
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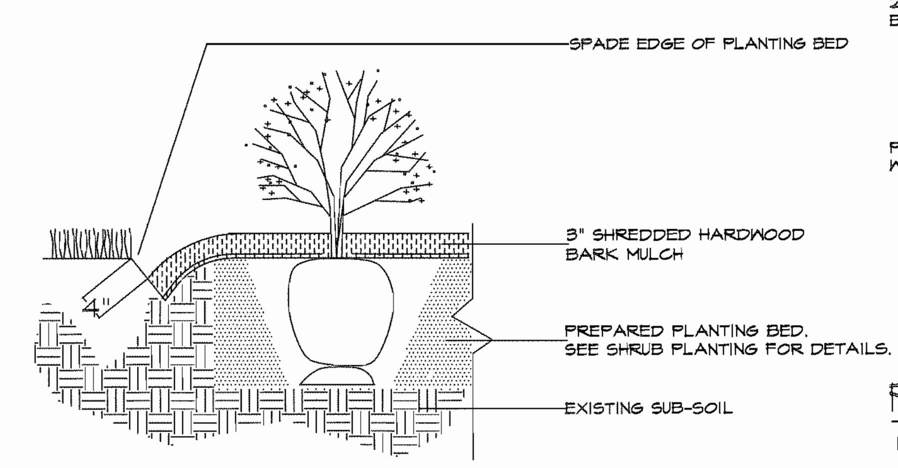
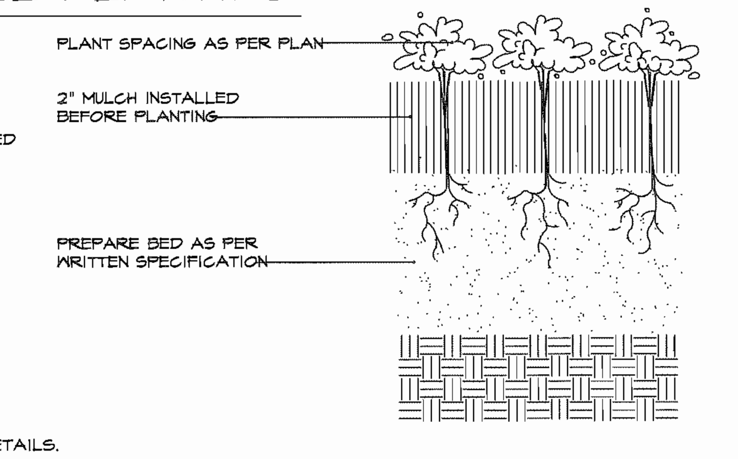
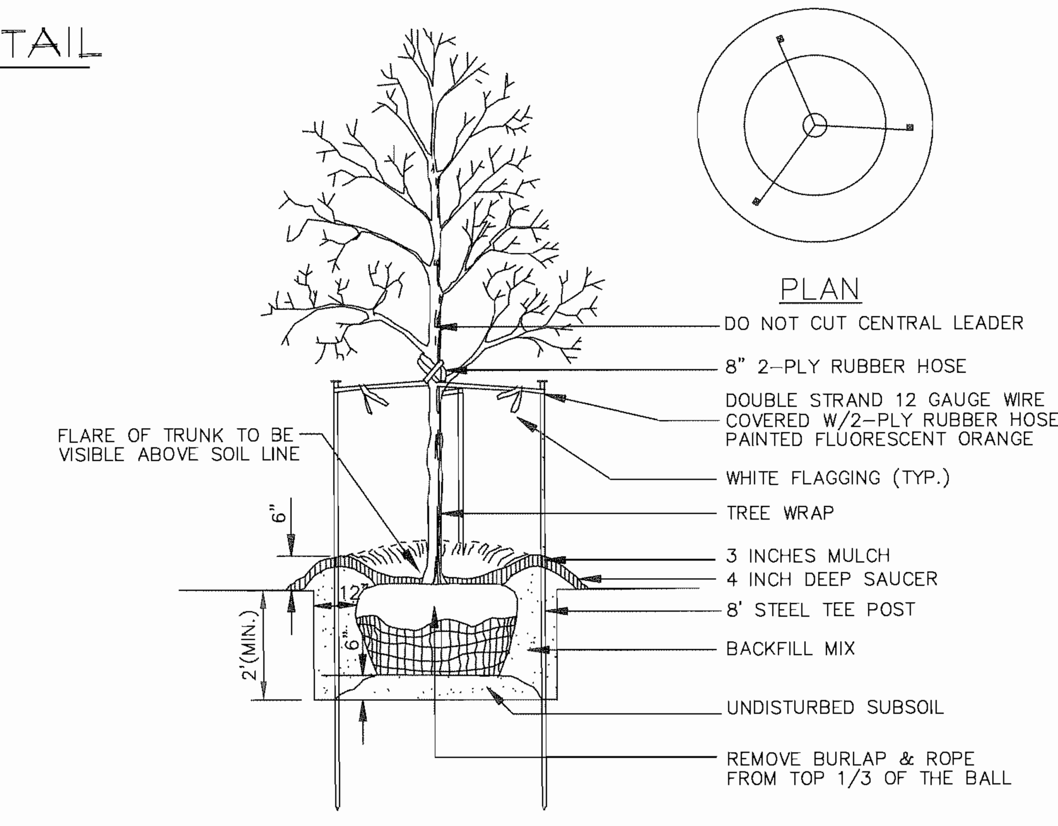


SPADE-CUT EDGE DETAIL
N.T.S.

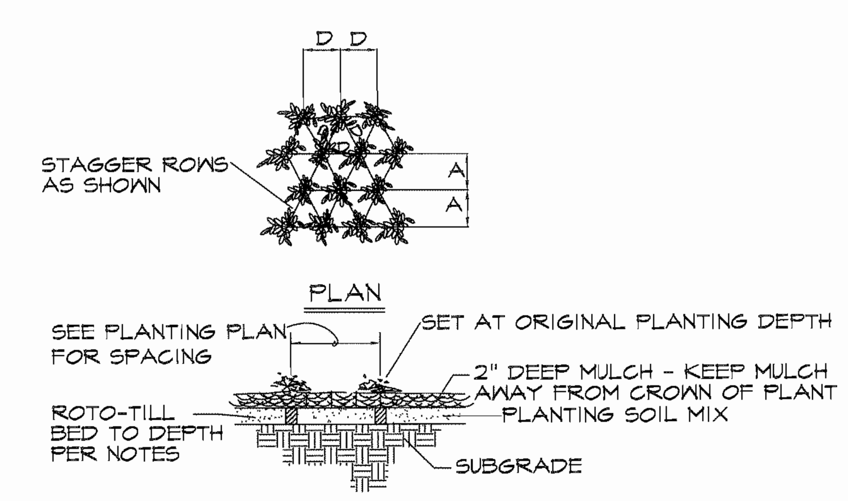


PERENNIAL / ANNUAL PLANTING
N.T.S.



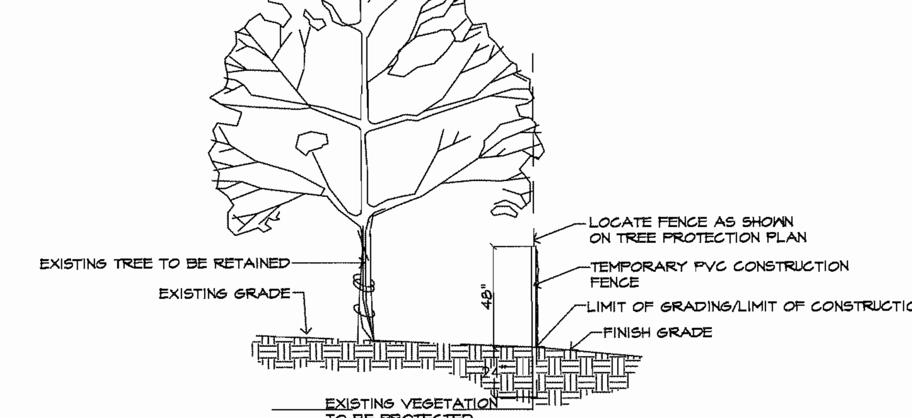
NOTE: USE SHREDDED BARK MULCH ONLY

DECIDUOUS TREE PLANTING
N.T.S.



FORB/GRASS PLANTING DETAIL
N.T.S.

SPACING "D"	ROW "A"	# OF PLANTS PER SQ. FT.
30"	26"	0.16
24"	20.8"	0.25
18"	15.6"	0.45
15"	13"	0.64
12"	10.4"	1.00
10"	8.66"	1.44
8"	6.93"	2.25



TREE PROTECTION DETAIL
N.T.S.

REVISIONS	BY
2/15/12	RWM

landscape TECHNOLOGIES

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St. Charles, Missouri 63304
(636) 928-1250
Fax: (636) 928-4563
MO Landscape Architectural Corporation #2008008782

RANDALL W. MARDIS
MISSOURI LANDSCAPE ARCHITECT #000019
DATE: 2/15/12

STATE OF MISSOURI — RANDALL W. MARDIS — NUMBER 019 — REGISTERED LANDSCAPE ARCHITECT

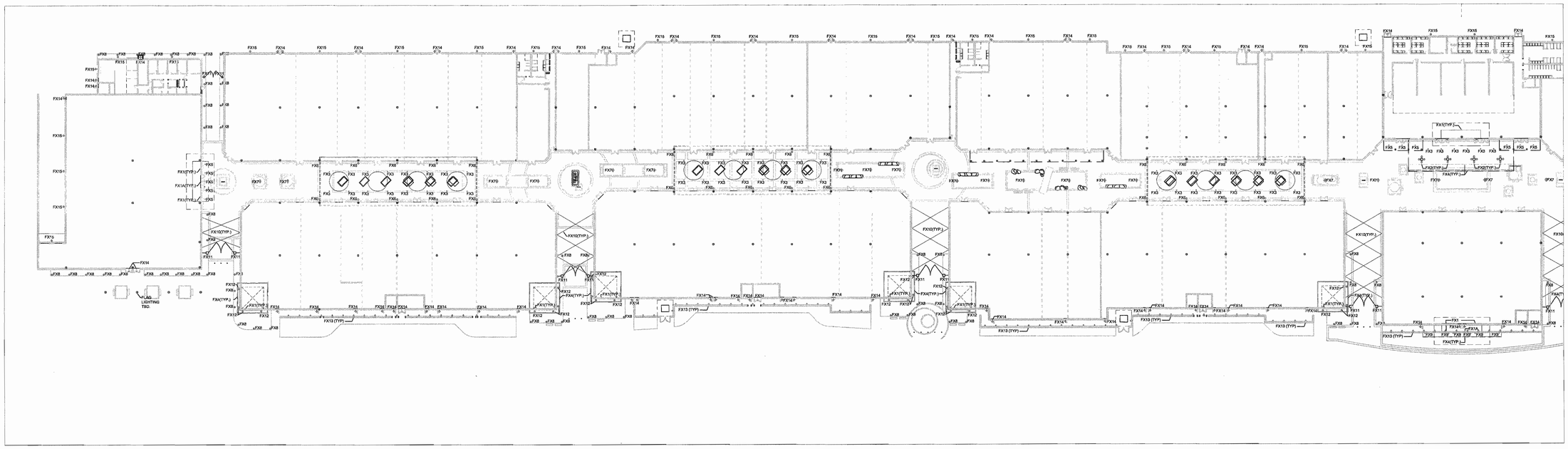
DETAILS, NOTES & SCHEDULE FOR THE PROPOSED

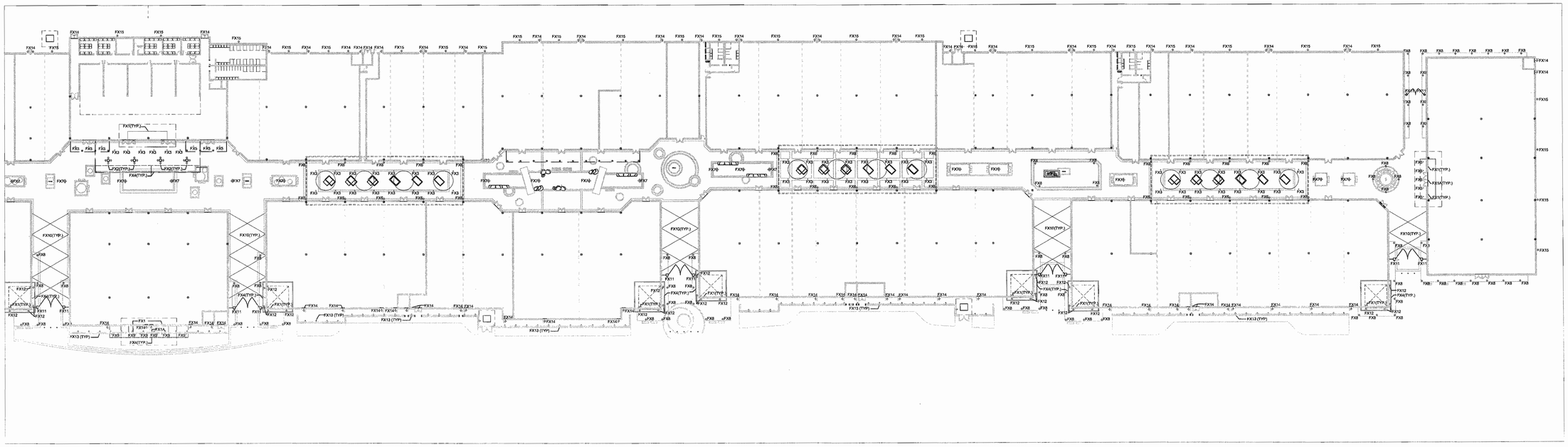
Chesterfield Outlets

CHESTERFIELD, MISSOURI

DRAWN	R. MARDIS
CHECKED	RWM/GJB
DATE	2/9/12
SCALE	N. A.
JOB No.	2011-164
SHEET	L-6

OF SIX SHEETS





A OVERALL PLAN
SCALE: 1" = 40'-0"

DESIGN COLLECTIVE

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ISSUED FOR	DATE
City Submission	02-15-12

CONSULTANT

ldc Lighting Design Collaborative
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1216 Arch Street Suite 3A Philadelphia, PA 19107 p 215.563.2115
209 Philadelphia Avenue Egg Harbor City, NJ 08215 p 888.233.2662

OWNER / DEVELOPER
T-O Ventures LLC

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

PROJECT NAME
Chesterfield Outlets

PROJECT ADDRESS
N Outer 40
Chesterfield, MO 63005

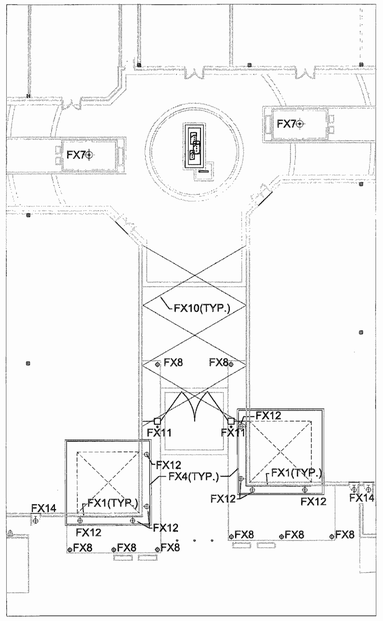
PROJECT MANAGEMENT
DCI Project No. 647-11
Owner Project No.
Drawn By: Author Checked By: Checke

SEAL

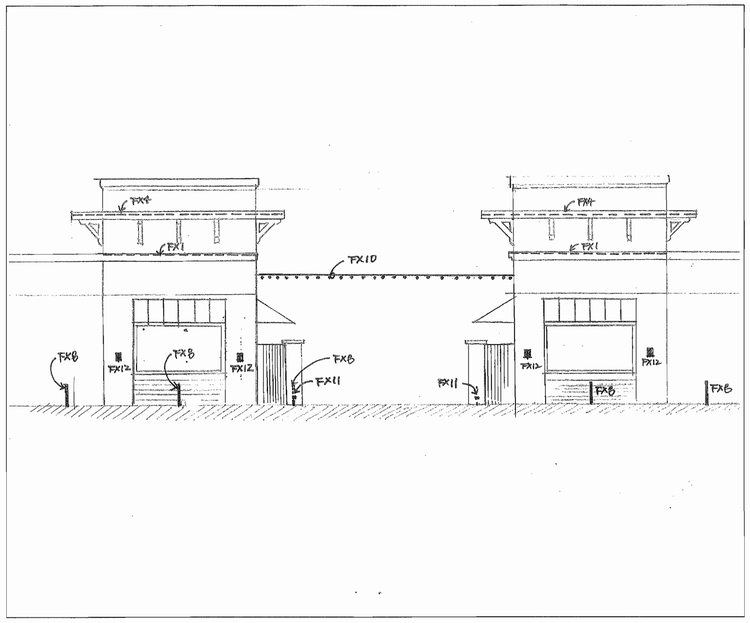
SHEET TITLE
Overall
Lighting Plan

SCALE

SHEET NUMBER
LT-01



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



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

SPECIFICATION SHEET

lumenfacade
WHITE & STATIC COLORS

Client : _____
Project name : _____
Order # : _____
Type : _____ Qty. : _____

FEATURES & BENEFITS

Physical :

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

Performance :

- Minimum 1fc @ 135 feet distance (4000K, 4' unit, 10° x 60° optic, HO version)
- 3,203 delivered lumens and 16,277 candelas at nadir (4000K, 4' unit, 10° x 60° optic, HO version)
- Lumen maintenance LTD @ 25 °C - > 30,000 hrs
- Lumen measurements comply with **LM - 79 - 08** standard
- Resolution per foot or per fixture (see page 8)

Electrical :

- Line voltage luminaire for 120 to 277V
- Power and data in 3 cable (#16-5)
- Up to 92 feet with a single 277V power feed, HO version
- 8.5W/ft (15.25/ft HO version)
- 0-10 volt, DMX or DALI dimming options

Wiring detail - non dimming

PIN ID	WIRE COLOR	USE
⏚	GREEN	GROUND
N	WHITE	NEUTRAL
1	BLACK	LINE 120-277V

Wiring detail - dimming

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

13 3/8" x 3 1/2" x 49 3/8"
(340mm x 89.5mm x 1255mm)

1 1/2" (38mm)
1" (25.4mm) on 14 configuration

5 year warranty

p.1/11

lumenpulse
Sustainable architectural LED lighting systems

modaLIGHT®

SPECIFICATION

AQUA FLEX™ 3000k

Description:
Dimmable Wet Location LED Linear Flex System
AQUA FLEX provides stable, consistent, energy efficient, ultra flexible Solid State Lighting. With a super low-profile it is able to meet any custom length at the designated cutting points. AQUA FLEX is housed in a high quality silicone sleeve with end caps and connectors. Silicone end caps for simple installation. With a combination of technology and versatility, AQUA FLEX, is ideal for wet locations, decks, architectural accents, coves, bars, cabinetry, and landscape lighting.

Dimensions:

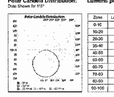
LED Spacing: 3/2" (19mm)
Cutting Distance: 2" (50.8mm)
Non-Continuous Length: 18' - 6 1/2" (5638mm)

Illuminance at a Distance: Data Shown for 110°
(For 1st Half(50 ft) to 10ft)

Center Beam FC	Beam Width
51.86 fc	5.3 ft
12.94 fc	10.6 ft
5.73 fc	15.8 ft
3.21 fc	21.1 ft
2.05 fc	26.4 ft
1.42 fc	31.6 ft

Beam Spread: 155.4°

Candela Distribution:
Data Shown for 110°



Lumens per Zone:

Zone	Lumens	% Total
0-10	15.5	5.2%
10-20	38.6	12.9%
20-30	50.7	14.5%
30-40	72.7	17.1%
40-50	78.9	18.5%
50-60	66.2	16.4%
60-70	32.7	10.8%
70-80	16.1	7.1%
80-90	5.5	2.3%
90-100	0.8	0.2%

Project Name:	Date:
Company:	PO #:
Name:	Type:
Notes:	

Output:

Delivered Lumens	105.60 lm / ft
CCT	3000k
Chromaticity Ordinates	x: 0.448 y: 0.412 Typical
Color Bin Tolerance	+ 3% / - 3%
Efficacy (lm/w)	41.29
CRI	82
Lumen Maintenance	70,000 Hours LTD @ 25°C ; 60,000 Hours L50 @ 25°C 50,000 Hours L70 @ 50°C ; 15,000 Hours L50 @ 50°C
Testing Data	Light Data LM-79-08 & LM-80-08

Electrical:

Input Voltage	12v DC
Power Consumption	2.16w/ft. (0.02A) - Varies based on length of run & other
Power Factor	≥ 0.95
Dimming	10C - 277+ Triac Incandescent Dimming Option
Emergency	N/A

Physical:

Application	Wet Location, Cabinets, Cove, Display, Channel Letter, Edge Light
Dimensions	Length 18' - 6 1/2" (5600mm) Width 3/5" (14mm) Height 1/5" (5mm)
Weight	3.9 oz (110g) Per Reel
Construction	Intelli-IC™ Constant Voltage Design Protects LEDs And Prolongs Life. White FPCB
Thermal Management	N/A
Optics	N/A
Fixture Connections	Solder points
Operating Temperature	-40°F – 122°F (-40°C – 50°C)
Storage Temperature	-40°F – 212°F (-40°C – 100°C)
Humidity	0-95% Non Condensing

Standards and Certifications:

Certification	Tested to UL & CSA by ETL, For Use in USA & CANADA. Complies with California Title 24 Requirements, Lighting Facts, CE & RoHS Compliant
Class	Class III
Environment	Wet Location - IP67
Warranty	2 Year Limited Warranty

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SISTEMALUX

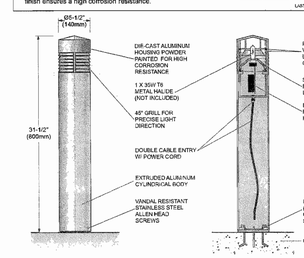
SPECIFICATION SHEET

MINICOLUMN Ø5-1/2" POINTED HEAD h = 31-1/2" **#S.4161-** VOLTAGE: 277/277

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

LAST UPDATE: FEBRUARY 24th 2009

MINICOLUMN is a free-standing bollard fixture. An extruded aluminum body supports a die-cast optical assembly with a polycarbonate diffuser. The powder-paint finish ensures a high corrosion resistance.



ELEVATION VIEW — SECTION VIEW

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

S.4172 - FLANGE AND STAINLESS STEEL SCREWS
(TO BE ANCHORED IN CONCRETE)
MOUNTING FLANGE MADE OF ALUMINUM AND FINISHED WITH EITHER BLACK OR ALUMINUM COLORED POWDER COATING
ADJUSTMENT SLOTS FOR ACCURATE POSITIONING

Ø5-1/2" (138mm) 9" (229mm)

SCREENING OF 1 OR 2 WINDOWS AVAILABLE ON REQUEST

VOLTAGE ○ 120V ○ 277V

METAL FINISH ○ 09 - BLACK ○ 14 - ALUMINUM GREY

5450 de Gaspé
Suite 100, Montréal (Québec)
H2T 2A2 Canada
P: 514.523.1339 F: 514.525.6107

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

EL CAPITAN™

BRASSEL LIGHTING

Die Kasten of Light™

PROJECT: _____
TYPE: _____

FRONT VIEW — "A/D" CAP — "B/E" CAP — "C" CAP — CANOPY DETAIL — SIDE VIEW — UNIVERSAL RING

Accessories (Sold per assembly)
Remote options:

All dimensions are provided in the nominal (standard) format. Actual fixtures (units) may vary from catalogue specifications.

SPECIFICATIONS

GeoenSource Solidstar™
Poles and packaging components are made from recycled material. Poles are designed to provide reusable, safe storage and easy access. Reusable to manufacturer at end of life to ensure ease in waste handling. Packaging contains no chlorofluorocarbons (CFCs). Bio of (BC) product may be used in lieu of petroleum based products to meet requirements. Consult www.biopolymer.com/resources for program requirements.

Materials
Fixtures: Copper-free Aluminum (Type 6061-T6). Brass (Type 360 or Stainless Steel/Type 316).

Body
Cast aluminum from solid billet. Embossed design provides enhanced, water-proof sealing and integral heat sink for maximum temperature life. High temperature, silicone O-Ring provides watertight seal.

Cap
Cast aluminum. Accommodates (1) two or (3) three conduit entries from (1) - (2) conduit (1" or 25.4) Also fits (3) conduit (1/2" or 13) or flush mount (1) hub (1" or 25.4). Cap is adjustable to suit site requirements. "U" and "L" caps include wire-guard and fuse or breaker tray only.

Lens
Black anthracite, tempered, glass lens is factory adjusted to ensure optimum light distribution and focus for each configuration. Specify with hood (-H) or without (-F) lens.

BESSL™
Integral-world class system with ½" technology is available in (2) two configurations: Modular design with electrical quick disconnects permits field maintenance. High power, forward throw source complies with NEC CYL (FT) lighting requirements. Secure BRASSEL™ COMP lamps maintenance requirements. LM-80 certified components.

Integral non-dimming driver. Minimum 350,000 hour rated life. Lifetime 100% warranty. Solid state construction provides long life, significant energy reduction and exceptional thermal management.

Optics
Interchangeable OPTIBET™ modules protect field changes. Optics are made of UV stabilized, high clarity Polycarbonate. Spot (BS) = Red. Type (FT) = Green. Medium Flood (FL) = Yellow. Wide Flood = Blue.

Adjust-a-Lens™ (Pat. Pending)
Patented mechanism allows fixtures to operate at the optimum focus - reduced glare or 25% more lumens. Adjustable focus output is secured from or may be changed in a cordless manner.

Installation
Fixture with hinged canopy with stainless steel external mounting may provide mounting to 4" octagonal junction box (by others). Suitable for uplight or downlight installations.

Transformer
For use with (2KVA) BRASSEL remote transformer.

Wiring
Wire rated, 1600V, 60W, 105° C rated and corrosion resistant.

Hardware
Tamper-resistant, stainless steel fasteners. Canopy fasteners are additionally black oxide treated for additional corrosive resistance.

Finish
GeoGuard™ (Pat. Pend.), a both compliant, 15 stage chemical-free process cleans and conversion coat prepares the surface for maximum adhesion of the high polyester powder coating. Many components are available in powder coat or hand-coated metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty
5 year limited warranty.

Certification and Listing
UL listed to (E154139-19). Listed/Lists Fixtures per UL 1598. Lamps (Ballasts/Transformers). UL Listed for AR/GR Standard 1029 and UL Subject 1598 and Certified to CAN/CSA Standard C22.2 No. 9. Both compliant. Suitable for wet location. Suitable for use in wet location. Pole Mount Rated in USA.

Wattage usage and performance of fixtures/ luminaire may vary. Approval substitution of the fixture (max. dimensions/wattage) may be required.

B-K LIGHTING — 16405 Bridgeport Drive • Modesto, CA 95355 • USA — 209.526.1000 • FAX 209.526.1010 — www.bklighting.com • sales@bklighting.com

PROJECT NAME	SUBMITTAL DATE	DRAWING NUMBER
	12-5-11	SL/B600942

PLATES Collection - Recessed

Page 1 of 2

ARCHITECTURAL LIGHTING WORKS

TYPE: _____

1. Style:
☐ Plates Wall Recessed (PLR)
☐ * Plates Ceiling Recessed (PLC)
* Available in 12" x 12" Only

2. Panel Type:
(Panel Sizes: 96 thickness glass type tests were discontinued by the glass vendor.)
☐ Arctic White glass (AW)
☐ Amber Ivory glass (AI)
☐ Watermelon glass (WM)
☐ Ivory Red glass (IR)
☐ Grain glass (GR)
☐ Banana glass (BN)
☐ Mottled Volcano glass (ML)
☐ Mottled Volcano glass (MV)
☐ Mottled Green glass (MG)
☐ Mottled Turquoise glass (MT)

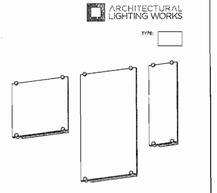
3. Size:
☐ 12" x 12" (12x12) 1 or 2 PLL 18W lamps
☐ 18" x 6" (18x6) 1 x PLL 24W lamps
☐ 24" x 12" (24x12) 1 or 2 x PLL 36W lamps

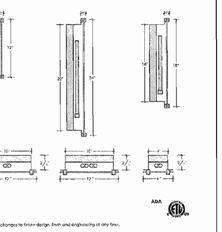
4. Lamp Quantity:
☐ 1
☐ 2
* only available in 24x12

5. Ballast Specification:
☐ LED - LED Power Supply (LED)
☐ STD - Standard (STD) - Electronic, non-dim + 1010HO
☐ * DALI - Digital Addressable Lighting (DALI)
☐ * MDIM - Adaptive Mode 10V Dimming (MDIM)
☐ * LBS - Lumen Compact (LBS)
☐ * ECOTO - Lumen ECOOPTIBrite Dimming (ECOOTO)
☐ * Remote Emergency Ballast (consult factory)

6. Voltage:
☐ * 120 - 120 volt
☐ 277 - 277 volt
☐ UNIV - UNIV (universal voltage
☐ * 347 - 347 volt (not available in dimming)
☐ HO - 1 3/4" wide

7. Finish:
☐ AL - Aluminum (AL)
☐ SB - Satin Brass (SB)
☐ BZ - Bronze (BZ)
All standard finishes are powder coated and cannot be powdercoated





Standard Finish Options:
AL SB BZ

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

www.archlightworks.com

ADA

ETL

FX1

FX4

FX8

FX11

FX12

DESIGNCOLLECTIVE

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1216 Arch Street Suite 3A Philadelphia, PA 19107 p 215.569.2115
209 Philadelphia Avenue Egg Harbor City, NJ 08215 p 888.233.2062

OWNER / DEVELOPER
T-O Ventures LLC

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

PROJECT NAME
Chesterfield Outlets

PROJECT ADDRESS
N Outer 40
Chesterfield, MO 63005

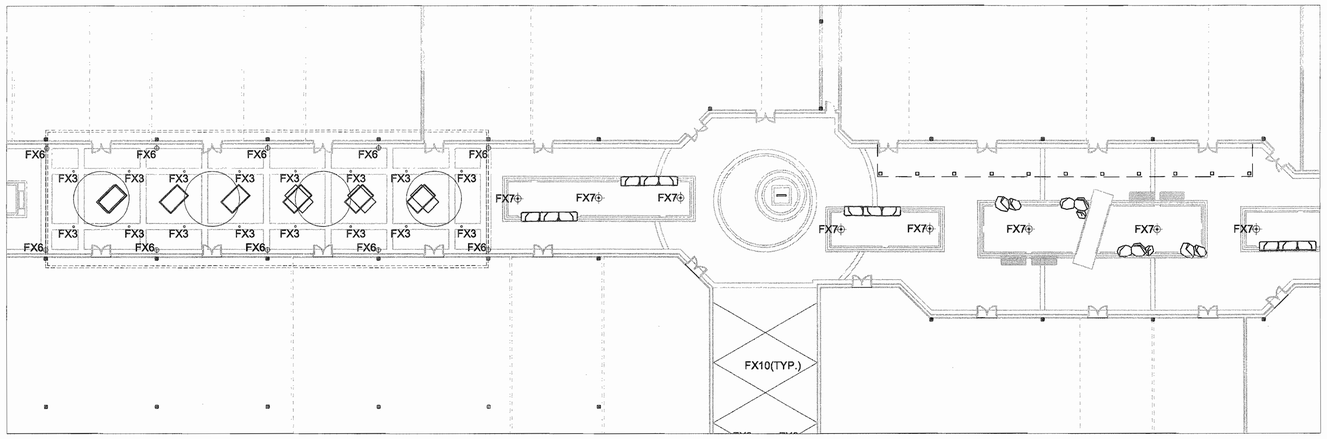
PROJECT MANAGEMENT
DCI Project No. 647-11
Owner Project No.
Drawn By: Author Checked By: Checker

SEAL
RICHARD A. MARIETTA
NUMBER A-2011025931
ARCHITECT

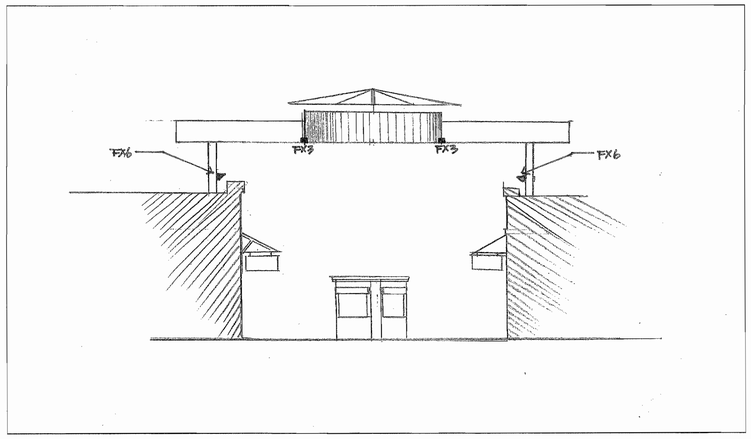
SHEET TITLE
Lighting at Typical Entries

SCALE

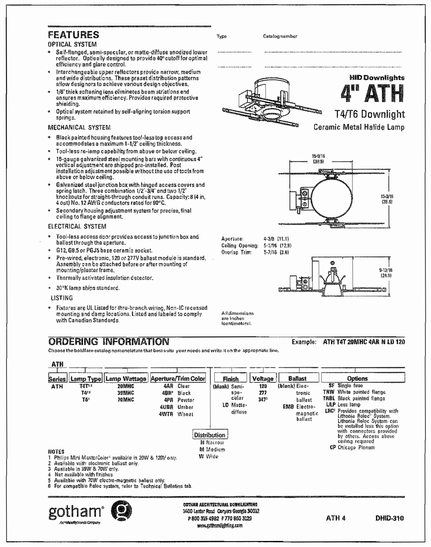
SHEET NUMBER
LT-02



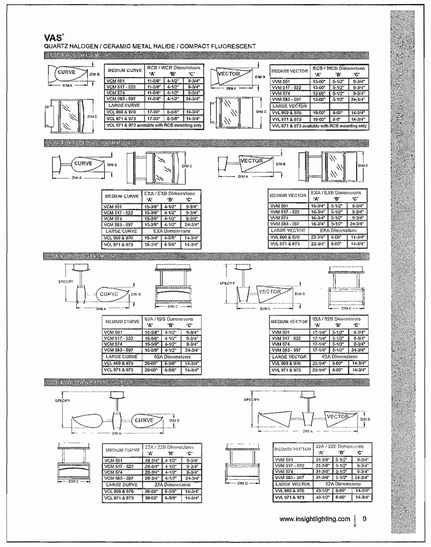
A ENLARGED PLAN
SCALE: 1" = 20'-0"



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



D FX3



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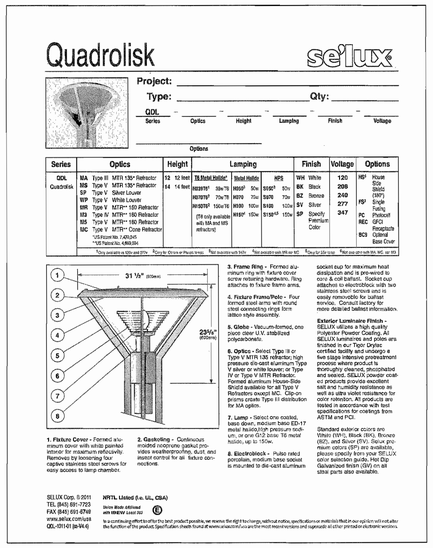

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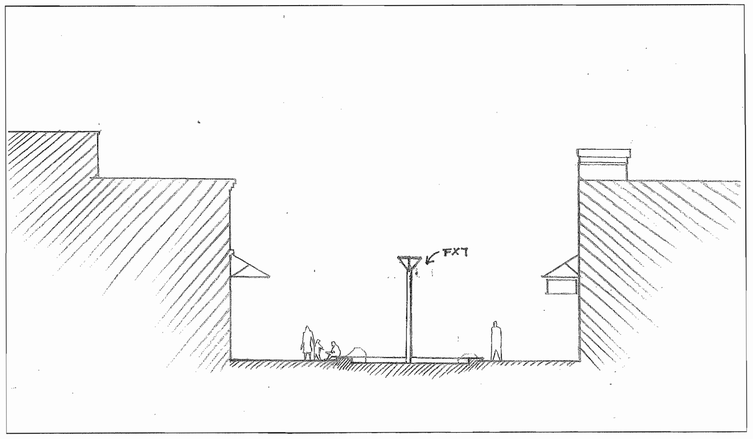

C SECTION AT PLANTER
SCALE: 1/8" = 1'-0"

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PROJECT NAME
Chesterfield Outlets

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N Outer 40
Chesterfield, MO 63005

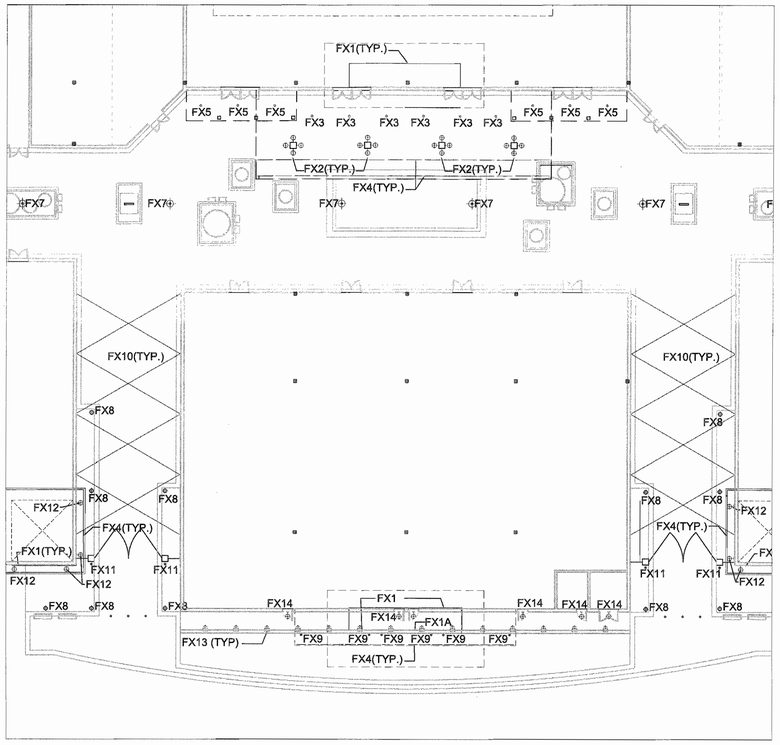
PROJECT MANAGEMENT
DCI Project No. 647-11
Owner Project No.
Drawn By: Author Checked By: Checke

SEAL
RICHARD A. MARRETTA
NUMBER
A-2011025831
ARCHITECT

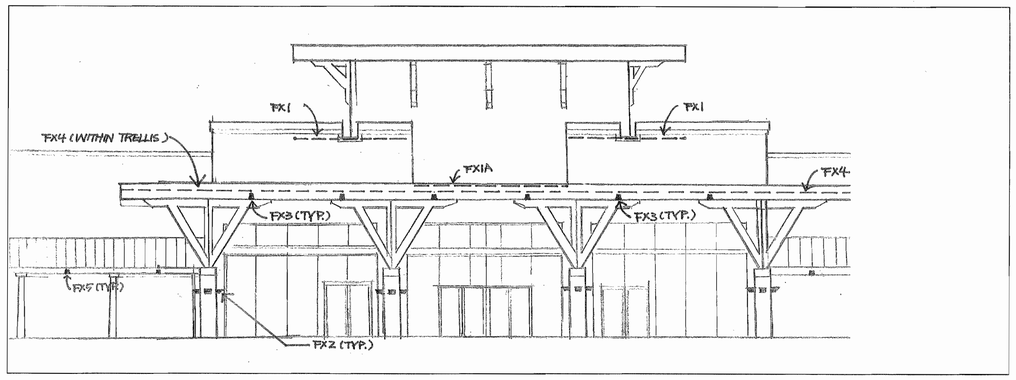
SHEET TITLE
Lighting at
Typical Concourse

SCALE

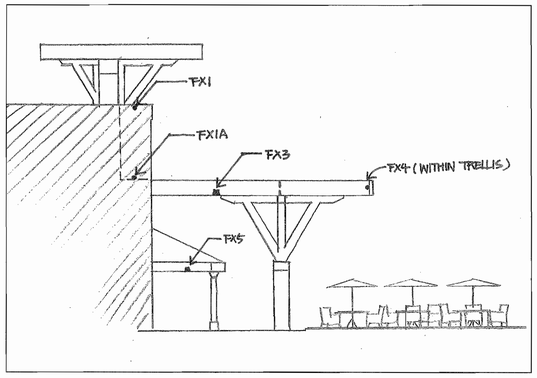
SHEET NUMBER
LT-03



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



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



C SECTION AT FOOD COURT
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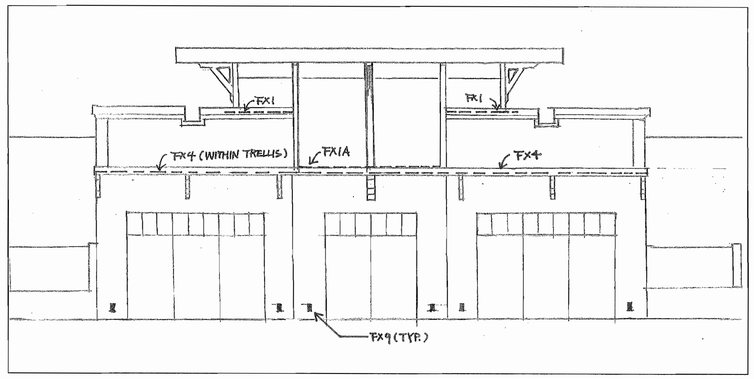

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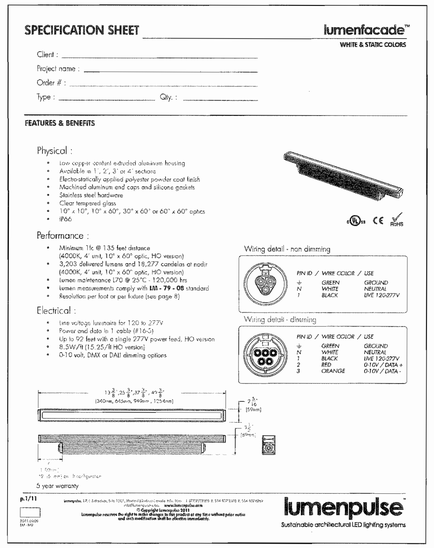

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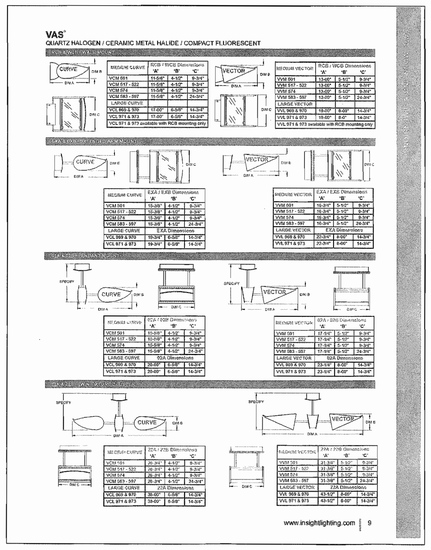

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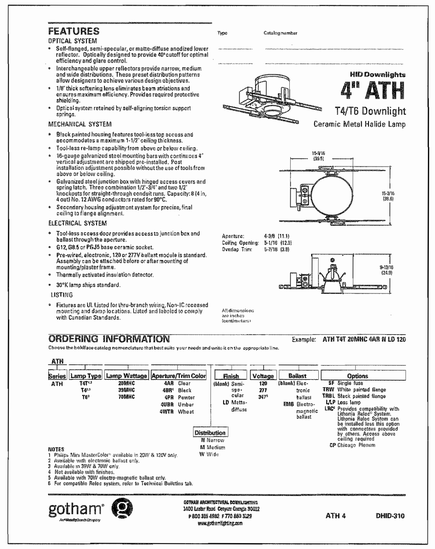
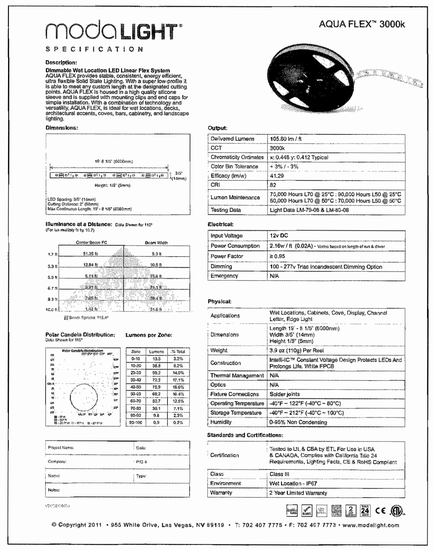


G FX3 / FX5



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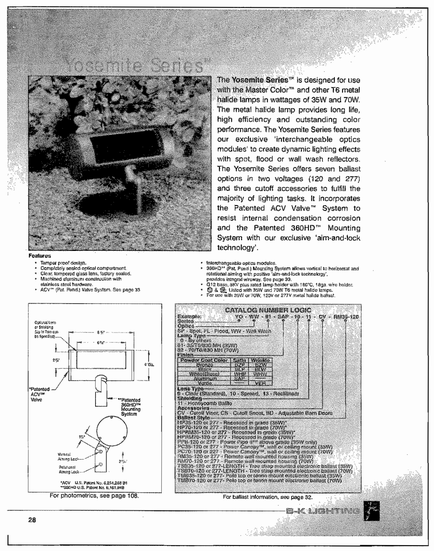

I FX9

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209 Philadelphia Avenue Egg Harbor City, NJ 08215 p 888.233.3862

OWNER / DEVELOPER

T-O Ventures LLC

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Bloomfields Hills, MI
48304-2324

PROJECT NAME

Chesterfield Outlets

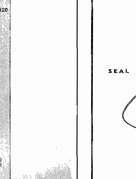
PROJECT ADDRESS

N Outer 40
Chesterfield, MO 63005

PROJECT MANAGEMENT

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

SEAL



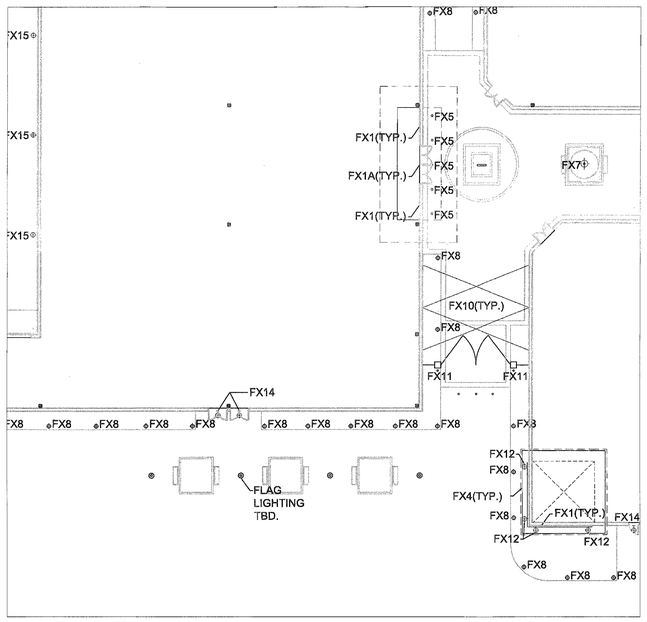
SHEET TITLE

Lighting at Central Area

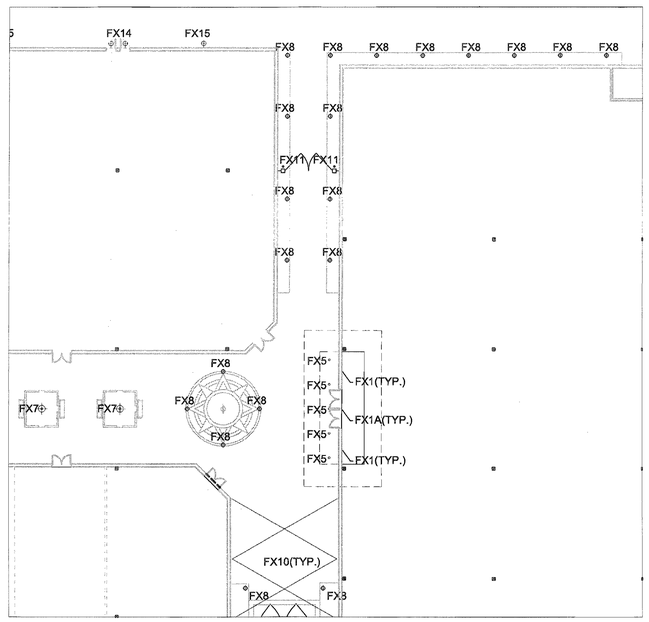
SCALE

SHEET NUMBER

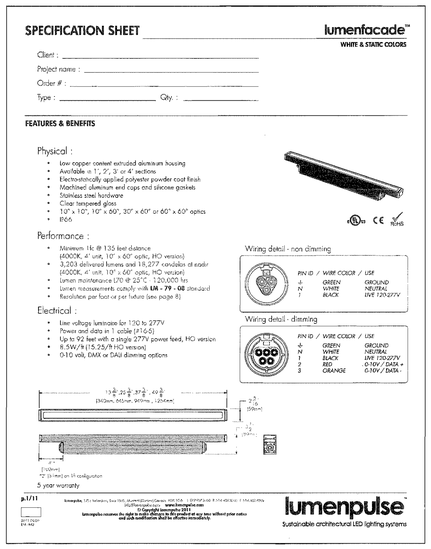
LT-04



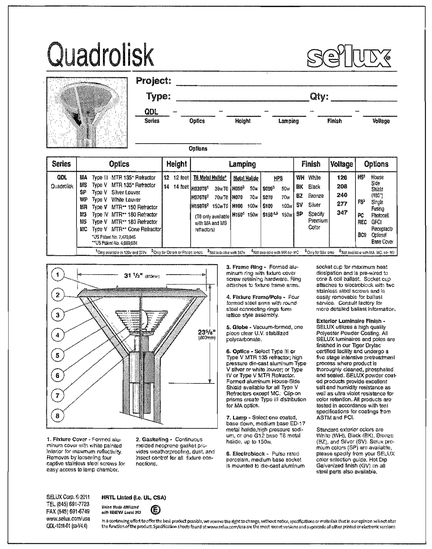
A ENLARGED PLAN
SCALE: 1" = 20'-0"



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



C FX1



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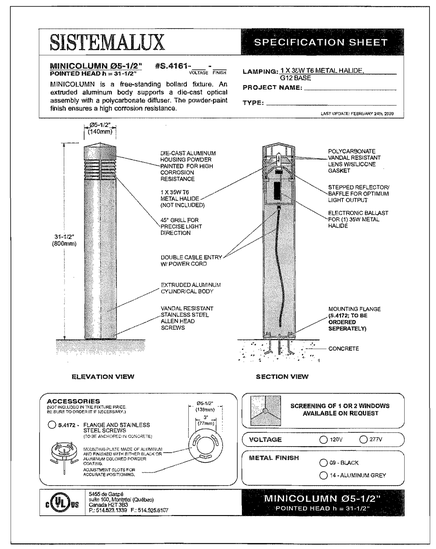

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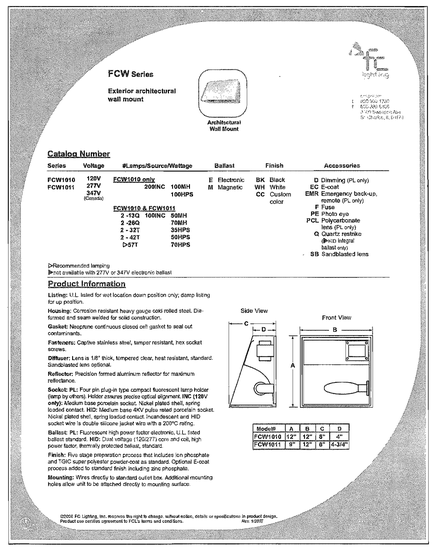

F FX15

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ISSUED FOR	DATE
City Submission	02-15-12

CONSULTANT

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1216 Arch Street Suite 3A Philadelphia, PA 19107 p 215.569.2115
209 Philadelphia Avenue Egg Harbor City, NJ 08215 p 888.233.2892

OWNER / DEVELOPER

T-O Ventures LLC

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

PROJECT NAME

Chesterfield Outlets

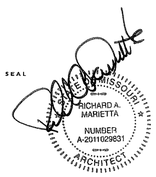
PROJECT ADDRESS

N Outer 40
Chesterfield, MO 63005

PROJECT MANAGEMENT

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

SEAL



SHEET TITLE

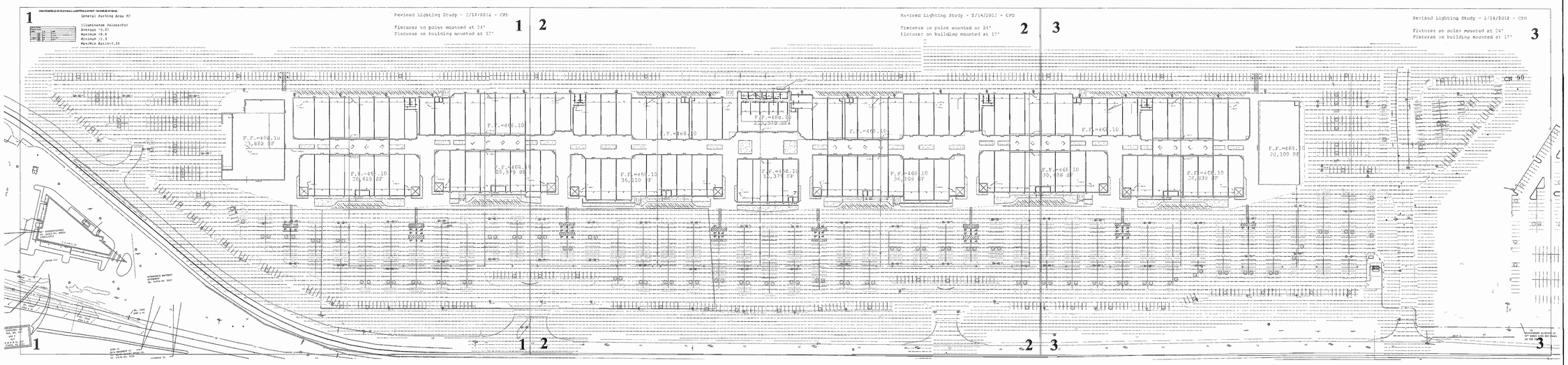
Lighting at End Buildings

SCALE

SHEET NUMBER

LT-05

12/16/2011 9:29:31 AM



CHESTERFIELD OUTLET MALL LIGHTING LAYOUT - NO POLES IN REAR

General Parking Area FC

Illuminance Values(Fc)
Average =3.27
Maximum =9.8
Minimum =1.3
Max/Min Ratio=7.54

Luminaire Schedule		
Project: All Projects		
Symbol	Qty	Label
	4	C12-T2
	33	C12-T3
	56	(2)C12-T4
	21	Wall 1

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CITY SUBMISSION	2-15-2012

CONSULTANT

OWNER / DEVELOPER
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200 East Long Lake Road Suite 300
Bloomfields Hills, MI
48304-2324

PROJECT NAME
Chesterfield Outlets

PROJECT ADDRESS
N Outer 40
Chesterfield, MO 63005

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

SEAL
STATE OF MISSOURI
RICHARD A. MARIETTA
NUMBER A-2011029831
ARCHITECT

SHEET TITLE
SITE LIGHTING

SCALE

SHEET NUMBER
LS-01

12/16/2011 9:29:31 AM

1

CHESTERFIELD OUTLET MALL LIGHTING LAYOUT - NO POLES IN REAR

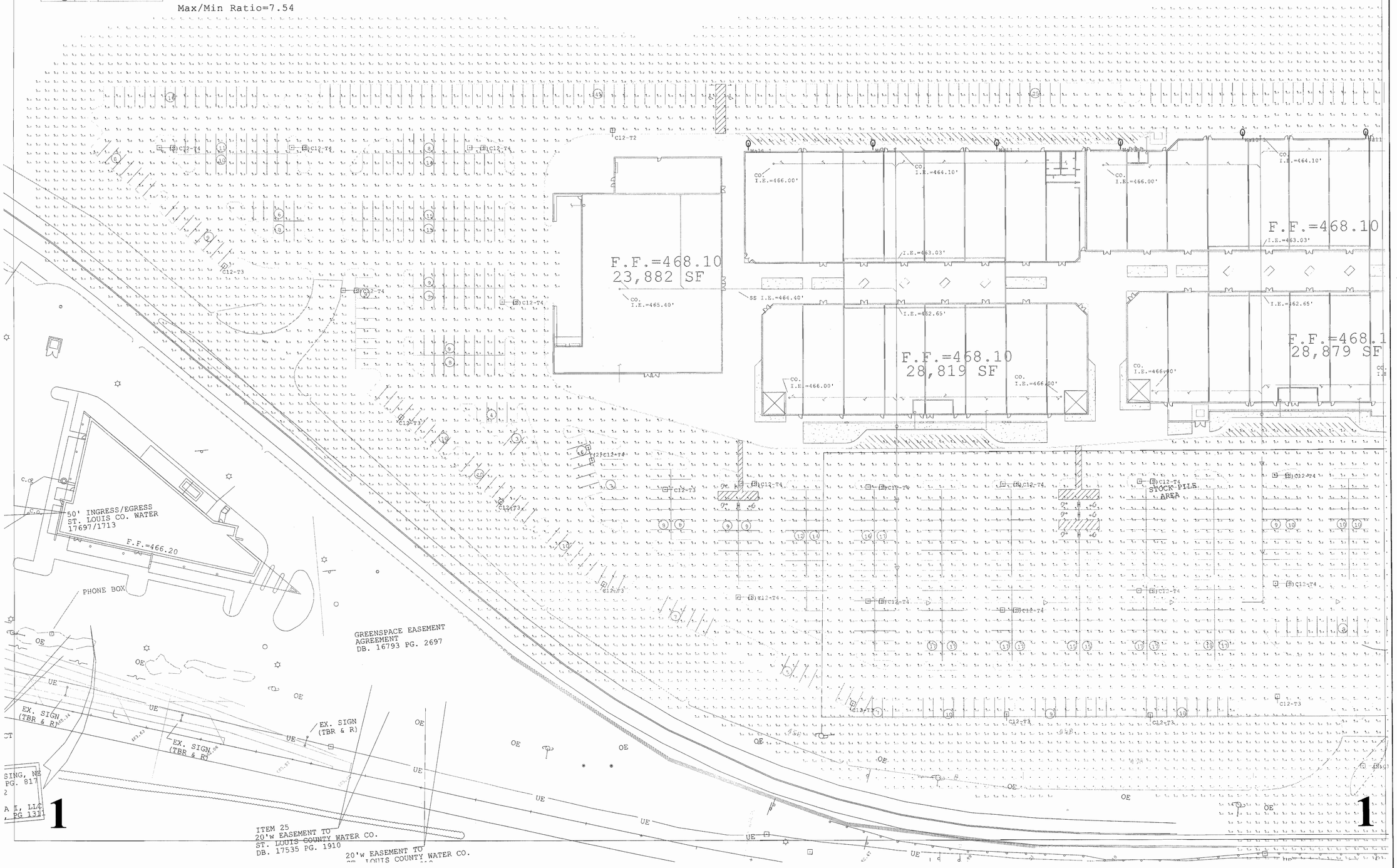
General Parking Area FC

Luminaire Schedule		
Project: All Projects		
Symbol	Qty	Label
	4	C12-T2
	33	C12-T3
	56	(2)C12-T4
	21	Wall 1

Illuminance Values(Fc)
Average =3.27
Maximum =9.8
Minimum =1.3
Max/Min Ratio=7.54

Revised Lighting Study - 2/14/2012 - CP

Fixtures on poles mounted at 24'
Fixtures on building mounted at 17'



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CONSULTANT

OWNER / DEVELOPER
T-O Ventures LLC

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

PROJECT NAME
Chesterfield Outlets

PROJECT ADDRESS
N Outer 40
Chesterfield, MO 63005

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

SEAL

SHEET TITLE
SITE LIGHTING

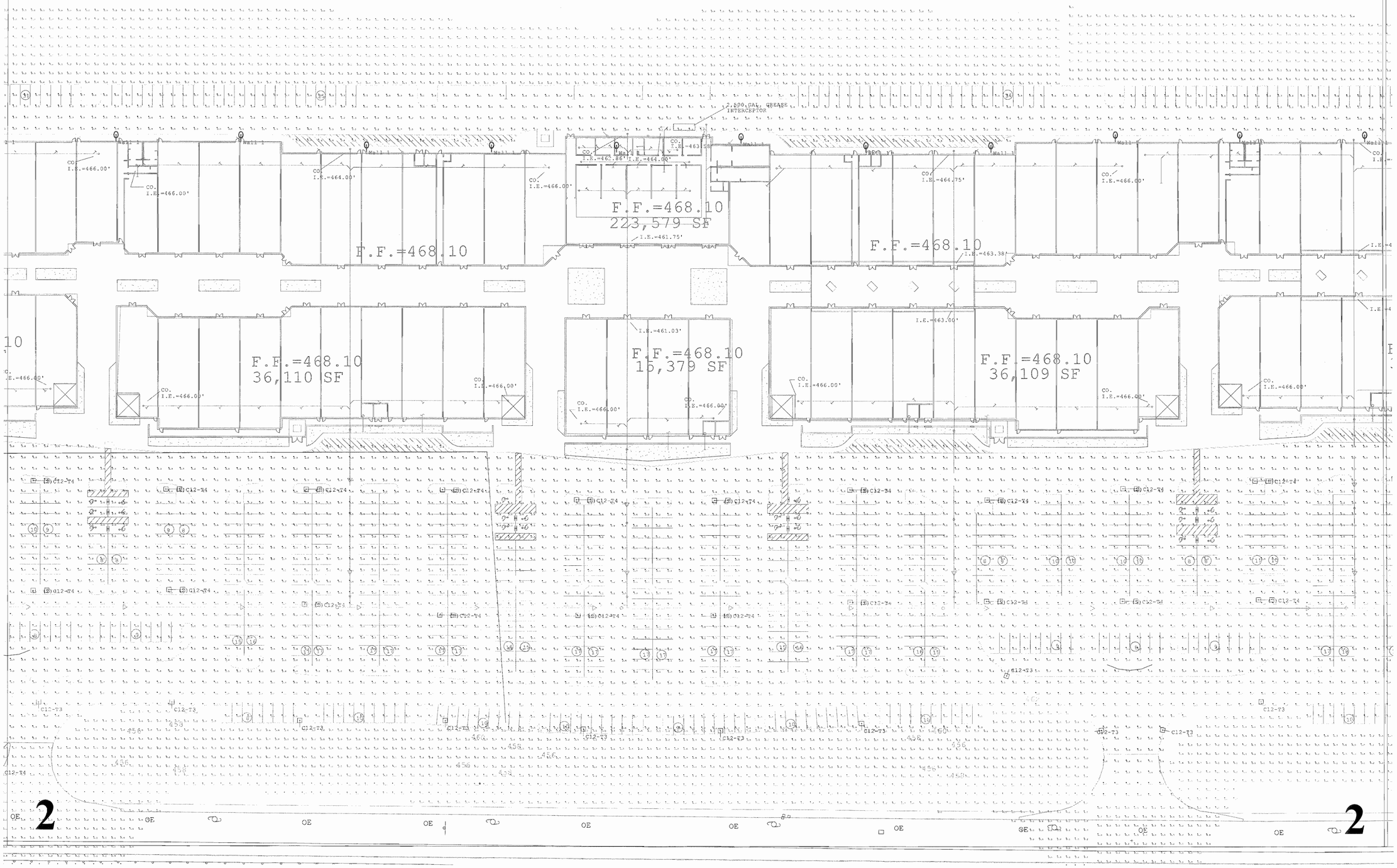
SCALE

SHEET NUMBER
LS-02

12/16/2011 9:29:31 AM

Revised Lighting Study - 2/14/2012 - CPD

Fixtures on poles mounted at 24'
Fixtures on building mounted at 17'



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CONSULTANT

OWNER / DEVELOPER
T-O Ventures LLC

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Bloomfields Hills, MI
48304-2324

PROJECT NAME
Chesterfield Outlets

PROJECT ADDRESS
N Outer 40
Chesterfield, MO 63005

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

SEAL
RICHARD A. MARIETTA
NUMBER A-2011029831
ARCHITECT

SHEET TITLE
SITE LIGHTING

SCALE

SHEET NUMBER
LS-03

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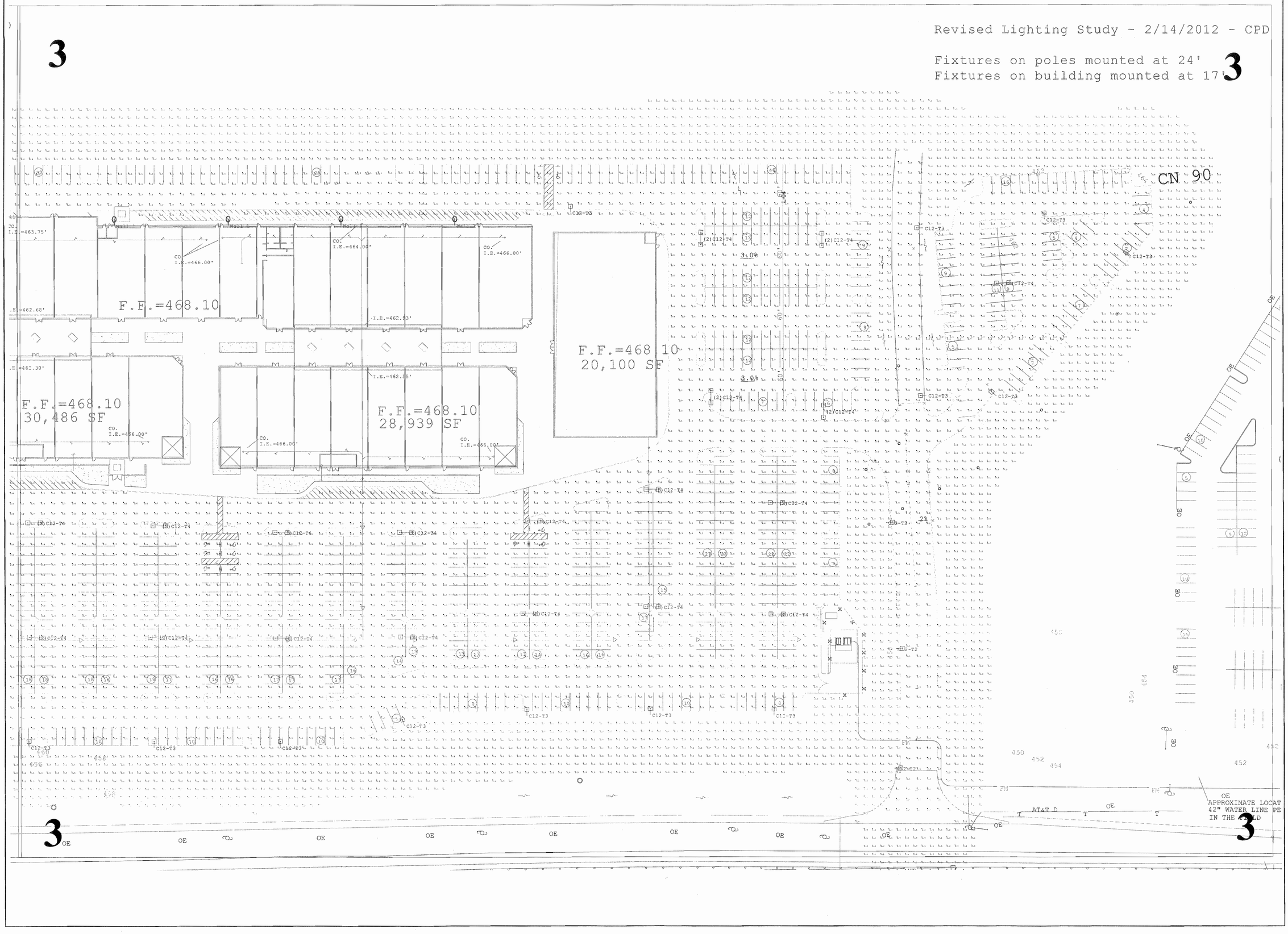
Revised Lighting Study - 2/14/2012 - CPD

Fixtures on poles mounted at 24'
Fixtures on building mounted at 17'



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CITY SUBMISSION	2-15-2012

CONSULTANT

OWNER / DEVELOPER
T-O Ventures LLC

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

PROJECT NAME
Chesterfield Outlets

PROJECT ADDRESS
N Outer 40
Chesterfield, MO 63005

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

SEAL
COMMONWEALTH OF PENNSYLVANIA
RICHARD A. MARIETTA
NUMBER A-2011023831
REGISTERED ARCHITECT

SHEET TITLE
SITE LIGHTING

SCALE

SHEET NUMBER
LS-04