



Bush Central Station PD
Administrative Approval Memorandum
City of Richardson, Texas

To: Brent Tignor, Chief Building Official
Dan Tracy, Development Engineer
Pam Gidney, Tax Assessor-Collector (via e.mail)
Keith Krum, Senior Planner

From: Mohamed Bireima, AICP
Planning Technician

Date: December 8, 2014

Project Name: CityLine Apartments
Location: 1250 Street 'E'
Southwest corner of Plano Road and Street 'E'

In accordance with the *Bush Central Station Planned Development Code, Section 3. Administration*, the following development plans have been approved:

1. Landscape Plan (Sheets 1-8)

The landscape plan reflects the development of a five (5) story, 299 unit multi-family building and a 6 level parking structure.

Proper permits must be secured from the Building Inspection Department prior to commencement of construction.

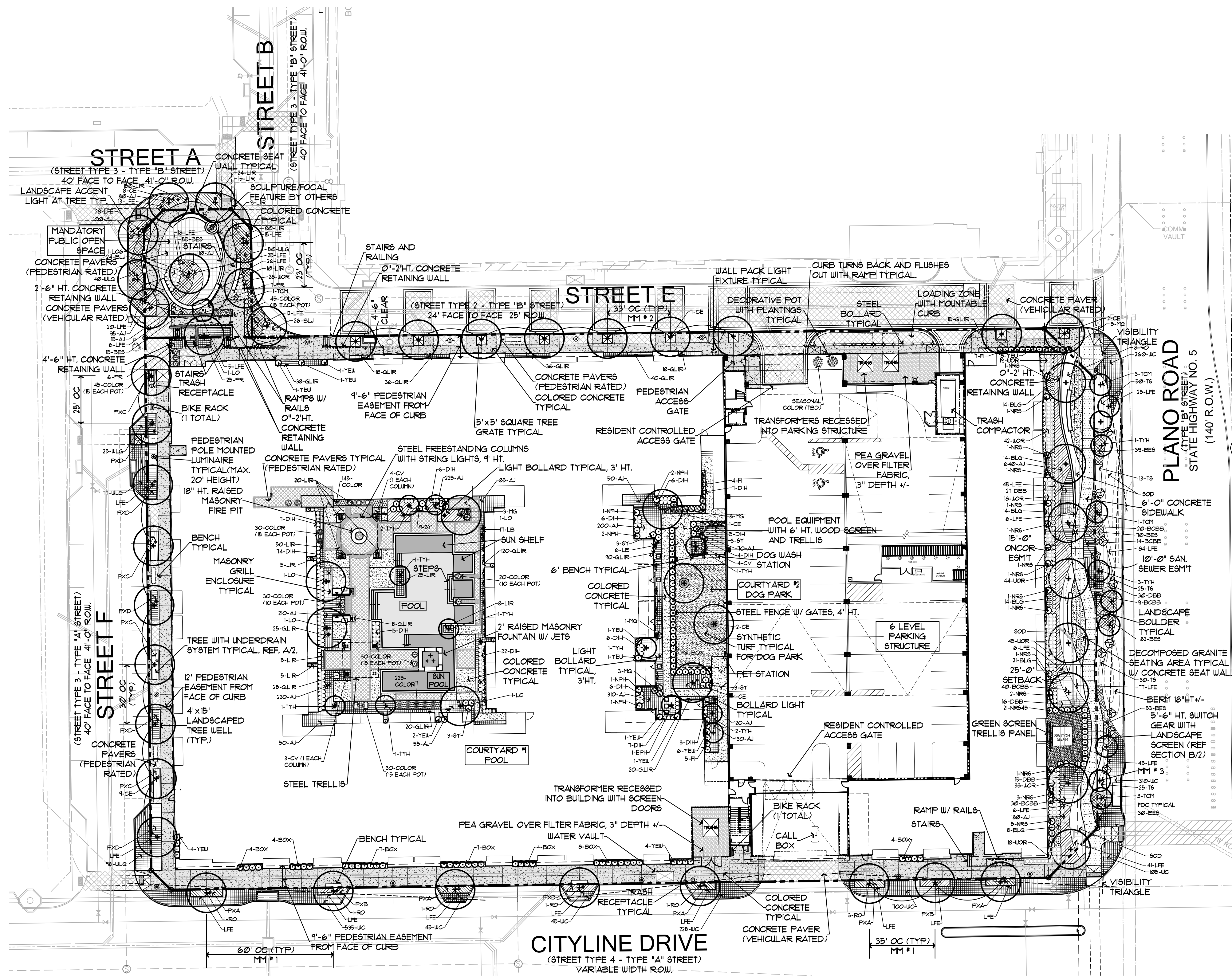
Copy: Site Plan File

Applicant: Brad Moss, Kimley-Horn
Brad.moss@kimley-horn.com

Eric Overton, JLB Partners
eoverton@jlbpartners.com

Owner: Tobin Grove, KDC
Tobin.grove@kdc.com

Plotted By: Brian Arthur, Sheet Set: K12a, Layout: Block B - Sheet 1 - 30 Scale, December 02, 2014, 08:09:33am, P:\AutoCAD\Projects\CityLine - Richardson, TX (JLB)\Submittal\CityLine - submittal Block B.dwg
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LARGE TREES

QUANTITY	SYMBOL/CALLOUT	COMMON NAME	SCIENTIFIC NAME	SIZE & CONDITION
16	RO	Red Oak	Quercus rubra	100 gallon, 3.5" cal. min, 16' H/17' spread, container grown, straight trunk, 1-8" clear trunk
1	LOE	Live Oak	Quercus virginiana	300 gallon, 6.5" cal. min, 20' H/21' spread, container grown, single straight trunk
5	LO	Live Oak	Quercus virginiana	100 gallon, 3.5" cal. min, 16' H/17' spread, container grown, single straight trunk, 1-8" clear trunk
28	CE	Cedar Elm	Ulmus crassifolia	100 gallon, 4" cal. min, 17' H/18' spread, container grown, straight trunk, 1-8" clear trunk

ORNAMENTAL TREES

QUANTITY	SYMBOL/CALLOUT	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION
15	TYH	Tree Yapon Holly	Ilex vomitoria	65 gallon, 10" H/14" spread, multi trunk, 3 cane minimum, container grown, barked
8	TCH	Tree Crapemyrtle	Lagerstroemia indica 'Natchez'	45 gallon, 10" H/10" spread, multi trunk, 3 cane minimum, container grown

SHRUBS

QUANTITY	CALLOUT	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION
2	BOX (TP)	Buxwood	Buxus sempervirens (Topping Pyramidal)	24" box, topiary pyramid
11	BOX	Buxwood	Buxus japonica 'Winter Gem'	10" gallon, 24" H/18" spread, 3' o.c.
16	SRJ	Skyrocket Juniper	Juniperus scopulorum 'Skyrocket'	15 gallon, 42" H/18" spread
135	BLG	Buxwood Little Gem	Buxus 'Little Gem'	3 gallon, 18" H/18" spread, 3' o.c.
22	NRS	Nellie R Stevens Holly	Ilex cornuta 'Nellie R Stevens'	15 gallon, 42" H/18" spread, 24" at base, matching specimens, 3' o.c.
28	NRS45	Nellie R Stevens Holly	Ilex cornuta 'Nellie R Stevens'	45 gallon, 6' H/18" spread, 24" at base, matching specimens, 3' o.c.
143	TS	Texas Sage 'Lynn's Legacy'	Leucophyllum longiantherum 'Lynn's Legacy'	3 gallon, 18" H/18" spread, 2' o.c., full, dense growth
33	YEU	Japanese Yew	Podocarpus nagi	15 gallon, 48" H/24" spread, 3' o.c.
180	DH	White Indian Hawthorn	Raphiophloeos indica 'Clara'	1 gallon, 24" H/24" spread, 2' o.c.
241	WCR	White Out Rose	Rosa 'White Out'	3 gallon, full, dense growth, spacing as shown
21	BT	Soft Yucca	Yucca gloriosa	1 gallon, 24" H/24" spread, 3' o.c.
* 218	PXA / PXB	Buxwood Little Gem	Buxus 'Little Gem'	3 gallon, full, dense growth, spacing as shown
* 334	PXC / PXD	Texas Sage 'Lynn's Legacy'	Leucophyllum longiantherum 'Lynn's Legacy'	3 gallon, full, dense growth, spacing as shown

GROUNDCOVERS / PERENNIALS / VINES

QUANTITY	SYMBOL/CALLOUT	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION
416	LIR	Liriope	Liriope muscari 'Tidilands'	1 gallon at 12" o.c., full, dense growth
225	UC	Winter Creeper	Euonymus fortunei	1 gallon at 12" o.c., full, dense growth
280	WLG	Waxing Love Grass	Eragrostis curvula	5 gallon at 30" o.c., full, dense growth
20	ML	Linderoea Purple Grass	Linderoea purpurea	5 gallon, 24" H/18" spread, 3' o.c.
384	GLR	Giant Liriope	Liriope muscari 'Giant'	1 gallon at 18" o.c., full, dense growth
38	PR	Prostrate Rosemary	Rosmarinus officinalis 'Prostratus'	3 gallon at 24" o.c., full, dense growth
344	BES	Black Eyed Susan	Rudbeckia fulgida 'Goldstruck'	1 gallon at 18" o.c., full, dense growth
* 52	PXA	Butterfly Bush 'Blue Chip'	Buddleia 'Blue Chip'	3 gallon, full, dense growth, spacing as shown
* 32	PXB	Butterfly Bush 'Blue Chip'	Buddleia 'Blue Chip'	3 gallon, full, dense growth, spacing as shown
* 32	PXC	White Out Rose	Rosa 'White Out'	3 gallon, full, dense growth, spacing as shown
* 11	PXD	Indigo Spirea	Spiraea 'Indigo Spiree'	3 gallon, full, dense growth, spacing as shown
104	DBB	Butterfly Bush 'Blue Chip'	Buddleia 'Blue Chip'	3 gallon at 24" o.c., full, dense growth
13	BCBB	Butterfly Bush 'Blue Chip'	Buddleia 'Blue Chip'	3 gallon at 24" o.c., full, dense growth
2860	AJ	Alan Jasmira	Tropaeolum 'Alan Jasmira'	1 gallon at 12" o.c., full, dense growth
110	COLOR	Seasonal Color	TBD	4" pots at 8" o.c. to be determined
16	GLV	Flora pulita	Flora pulita	5 gallon at 36" o.c., full, dense growth
17	CRV	Crochovine	Bignonia capreastrata	6 gallon at 36" o.c., full, dense growth, attach to trellis post or greenhouse panel
24	LV	Lady Banksia Rose	Rosa 'Lady Banksia'	3 gallon, full, dense growth, attach to patio fence

TURF GRASS

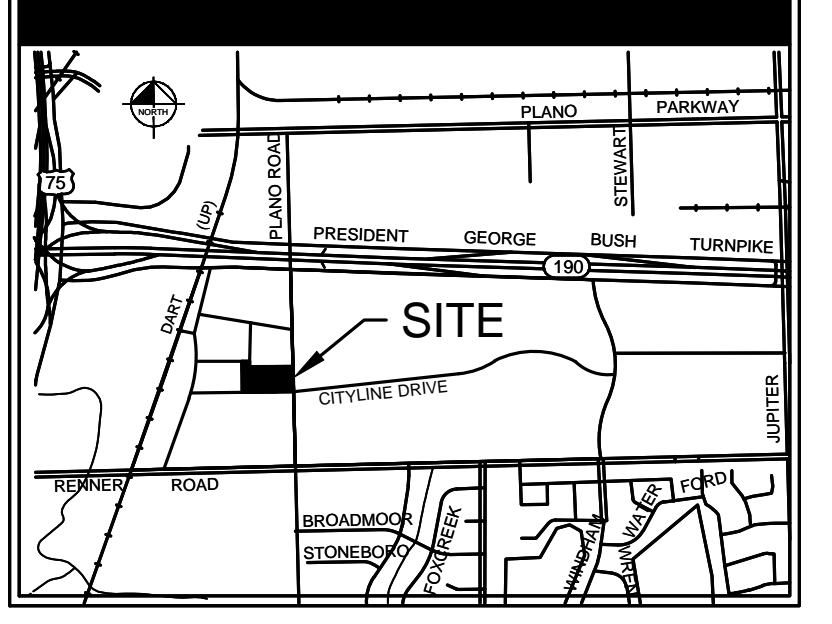
QUANTITY	CALLOUT	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION
2230	SP, SOD	Bermuda Grass	Cynodon dactylon	Solid sod

MISCELLANEOUS

QUANTITY	CALLOUT	DESCRIPTION
838	LFE	L.F. Steel edge 18" x 4" with 12' stakes, black in color

NOTES

- Full bed preparation typical. Reference specifications.
- Verify location of all utility lines prior to installation. Field adjust for general uses if conflict exists.
- When the same species of trees are paired or grouped in 3 or more, they should be matched in size, shape, growth characteristics, etc.
- All bed areas must be separated from turf areas by steel edging.
- 100 gallon trees to be tri-staked. Others to have minimum of two stakes.
- Tree stake alteration: Tree Stake Solutions.
- All trees and planting beds shall have a minimum 3" layer of mulch. The mulch should not touch the trunk of the tree.
- All landscape areas must be irrigated with an automatic underground irrigation system.



LEGEND

- CANOPY TREE (3' CALIPER MINIMUM)
- ORNAMENTAL TREE (3' CALIPER MINIMUM)
- LARGE SHRUB/SCREEN SHRUB (5 GALLON MINIMUM)
- DIAPYRE SHRUB (3 GALLON MINIMUM)
- CONCRETE PAVEMENT
- COLORED CONCRETE
- BRUSH FINISH CONCRETE
- DECOMPOSED GRANITE
- BLACK STAR GRAVEL
- PEDESTRIAN POLE MOUNTED LUMINAIRE K12-KIM, 16' HEIGHT
- PEDESTRIAN POLE MOUNTED LUMINAIRE K12-KIM, 12' HEIGHT
- PEDESTRIAN POLE MOUNTED LUMINAIRE SA-12-GARDOCO, 14' HEIGHT
- WALL PACK MOUNTED NOMINAL 20" ABOVE FINISH GRADE, LE-LITHONIA
- BOLLARD LIGHT FIXTURE, IN COURTYARD (3' HEIGHT, TYP BY OWNER)
- LED LANDSCAPE ACCENT LIGHT AT TREE, HO-VISIONS
- ELECTRICAL OUTLET AT TREE
- BIKE RACK
- TRASH RECEPTACLE
- DECORATIVE POT
- BENCH
- STEEL BOLLARD
- TREE GRATE (5'x5')
- LANDSCAPE BOULDER

SITE FURNISHINGS AND LANDSCAPE MATERIALS SHALL MATCH PROPOSED ITEMS FOR OVERALL CITYLINE DEVELOPMENT SITE.

City of Richardson
Development Plan Approved subject to Building Code and other City regulations

Approved By: M. Bireima
City Manager or Designee

Date: 12/08/2014

GENERAL NOTES

- ALL LANDSCAPED AREAS MUST BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM EQUIPPED WITH OPERATING RAIN AND FREEZE SENSORS.
- ALL BED AREAS MUST BE SEPARATED FROM TURF AREAS BY STEEL EDGING.
- THE PROPERTY OWNER MUST MAINTAIN ALL LANDSCAPING IN ACCORDANCE WITH THE LANDSCAPE PLAN APPROVED BY THE CITY.
- DEAD OR DYING PLANT MATERIAL, AS DETERMINED BY THE CITY, SHALL BE REPLACED IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
- THERE ARE NO EXISTING TREES LOCATED ON THIS SITE.
- OUTDOOR LIGHTING MUST BE ORIENTED SO THAT LIGHTING LEVELS AT ALL PROPERTY LINES ARE ONE FOOT-CANDLE OR LESS.
- VISIBILITY TRIANGLES SHALL BE MAINTAINED AT ALL STREET, ALLEY OR PRIVATE DRIVE INTERSECTIONS IN ACCORDANCE WITH THE CITY'S SITE TRIANGLE GUIDELINES, WITHIN THE REQUIRED VISIBILITY TRIANGLE, NO OBSTRUCTION SHALL EXCEED 30 INCHES IN HEIGHT, MEASURED FROM THE DRIVING SURFACE; HOWEVER TREES ARE PERMITTED WITHIN THE VISIBILITY TRIANGLE PROVIDED THAT THE LOWEST LIMBS ARE TRIMMED TO A MINIMUM HEIGHT OF SEVEN (7) FEET, MEASURED FROM TOP OF CURB.
- PHOTOMETRIC PLAN FOR OVERALL CITYLINE DEVELOPMENT SITE HAS BEEN PREPARED BY THE LIGHTING PRACTICE. LIGHT FIXTURE SPECIFICATIONS AND LOCATIONS SHOWN ON THE LANDSCAPE PLAN REFLECT CITY-APPROVED LIGHTING PLANS DATED 05/23/2014 AND REVISED 07/21/2014, WHERE APPLICABLE. FINISH COLOR TO BE RAL 1024, GRAPHITE GREY.

TABULATIONS - BLOCK B

SECTION	ITEM	REQUIREMENTS	CITYLINE DRIVE (TYPE A STREET)	STREET F (TYPE A STREET)	STREET E (TYPE B STREET)	PLANO ROAD (TYPE B STREET)
TABLE 6.2	TRANSFORMER SCREENING	PROVIDE LIVING OR ARCHITECTURAL SCREEN ON TYPE 'A' STREET FRONTAGE. UTILITY EQUIPMENT MUST BE RECESSED INTO THE BUILDING.	RECESSED INTO BUILDING AND ARCHITECTURAL SCREEN PROVIDED	N/A	NOT PROVIDED PER APPROVED MINOR MODIFICATION BY SITE PLAN	N/A
TABLE 6.2	UTILITY SCREENING (SWITCH GEAR)	PROVIDE LIVING OR ARCHITECTURAL SCREEN	N/A	N/A	N/A	LIVING SCREEN PROVIDED
TABLE 6.2	PEDESTRIAN STREET LIGHTS	PEDESTRIAN LIGHTING MUST BE PLACED AT UNIFORM LOCATIONS AS APPROVED BY THE CITY. MAX. 20' HEIGHT	PROVIDED (SPACING PER KDC)	PROVIDED (SPACING PER KDC)	PROVIDED (SPACING PER KDC)	PROVIDED (SPACING PER KDC)
9.1	BIKE RACKS	MINIMUM 1/BILOCK TYPE A STREETS	1 PROVIDED	1 PROVIDED	N/A	N/A
9.1.4	TRASH RECEPTACLES	MINIMUM 1/BILOCK TYPE A STREETS	1 PROVIDED	1 PROVIDED	N/A	N/A
9.1.5	BENCHES	RECOMMENDED TYPE A STREETS	2 PROVIDED	2 PROVIDED	1 PROVIDED	N/A

TABULATIONS - MANDATORY PUBLIC OPEN SPACE

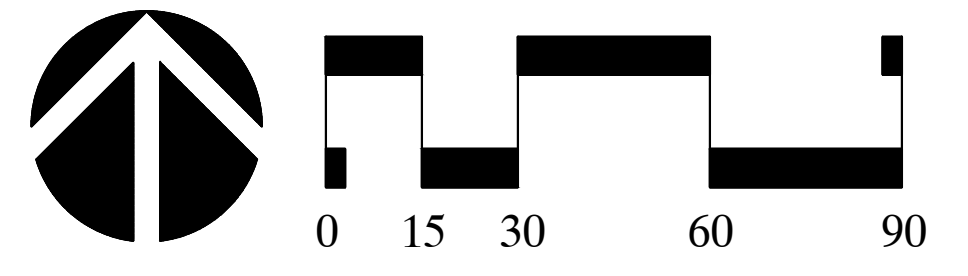
SECTION	ITEM	REQUIREMENTS	CITYLINE DRIVE (TYPE A STREET)	STREET F (TYPE A STREET)	STREET E (TYPE B STREET)	PLANO ROAD (TYPE B STREET)
STREET TREES (3' CALIPER MINIMUM)	STREET A (STREET TYPE 3) TREE/40 LF FRONTAGE AVERAGE	TREES REQUIRED (63 LF/40' ± 16)	2	2		
STREET B (STREET TYPE 3) TREE/40 LF FRONTAGE AVERAGE	TREES REQUIRED (13 LF/40' ± 12)	TREES PROVIDED	2	2		
STREET F (STREET TYPE 3) TREE/40 LF FRONTAGE AVERAGE	TREES REQUIRED (13 LF/40' ± 12)	TREES PROVIDED	2	2		

TURF GRASS

QUANTITY	CALLOUT	COMMON NAME	SCIENTIFIC NAME	SIZE AND CONDITION
2230	SP, SOD	Bermuda Grass	Cynodon dactylon	Solid sod

NOTES

KEY	PROVISION	MINOR MODIFICATION (MM)	JUSTIFICATION
1	9.4.4 Street Type 4 Landscape Type Street trees ± 60' on center average	Allow street trees ± 64' on center average along Cityline Drive frontage.	Due to the parking structure access, the on center average is less. Street trees are 60' on center east of the parking structure access, 35' on center east of the parking access.
2	9.6.3 Street tree spacing must be an average of 40' on center (measured per block face) along all streets unless otherwise specified in the cross section.	Allow street trees ± 44' on center average along Street E frontage.	Due to the parking structure access, the trash compactor access, and the loading zone, the on center average is less. Street trees are 33' on center, except for the access, and loading zone areas.
3	9.6.8 Along arterials, street trees must be planted in accordance with City policies. Within the landscape buffer, one canopy and one ornamental tree should be planted for every 50' linear feet of street frontage.	Allow the canopy and/or ornamental trees to be planted within the Plano Road right-of-way.	Due to a 15' On-center easement and a 10' sanitary sewer easement, there is no area within the minimum 25' landscape buffer to locate both canopy trees and ornamental trees along Plano Road.

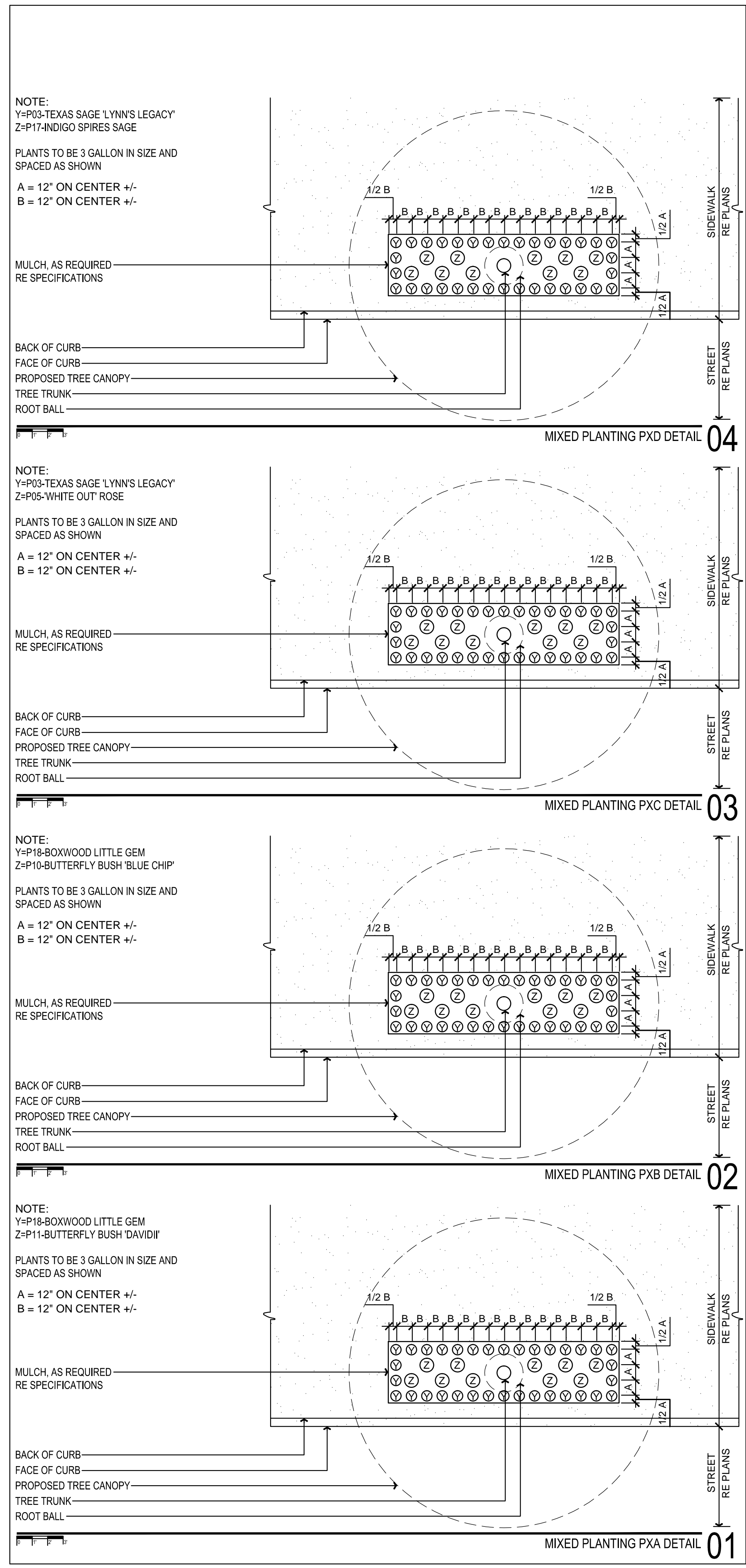


OWNER: ECS WEST LAND INVESTMENTS, LP
C/O KDC DEVELOPMENT LLC
8115 FRESTON ROAD, SUITE 100
214.696.1146
DALLAS, TEXAS 75225
CONTACT: SCOTT OZMYM
scott.ozymy@kdc.com

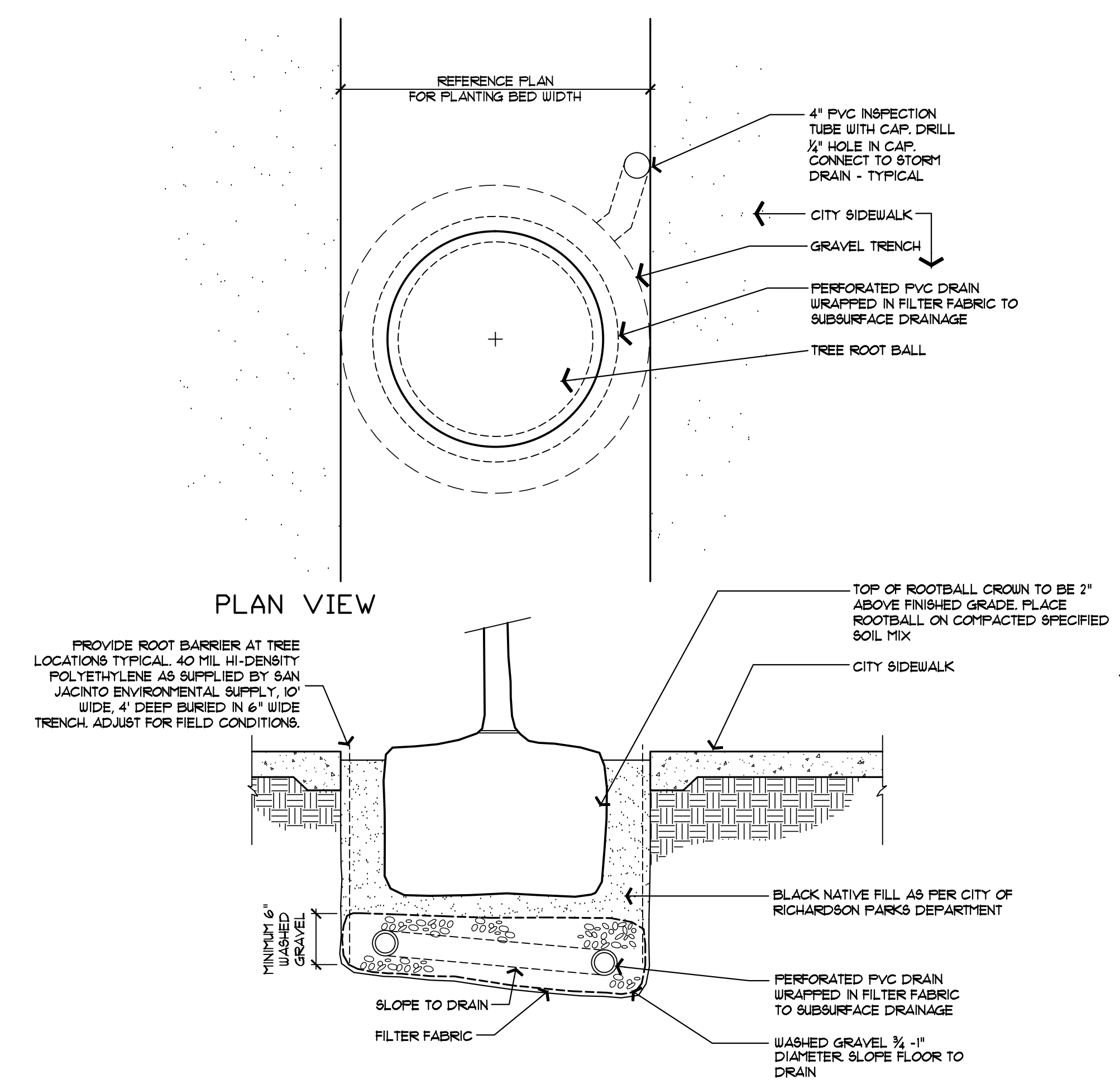
DEVELOPER: JLB PARTNERS, LLC
3890 W. NORTHWEST HIGHWAY
SEVENTH FLOOR
DALLAS, TEXAS 75220
214.987.6864
CONTACT: ERIC OVERTON
eoverton@jlbpartners.com

LANDSCAPE ARCHITECT: ENVIRO DESIGN
1424 GREENVILLE AVENUE
SUITE 200
DALLAS, TEXAS 75231
214.987.3010
CONTACT: DICK ARTHUR
darthur@envirodesign-dallas.com

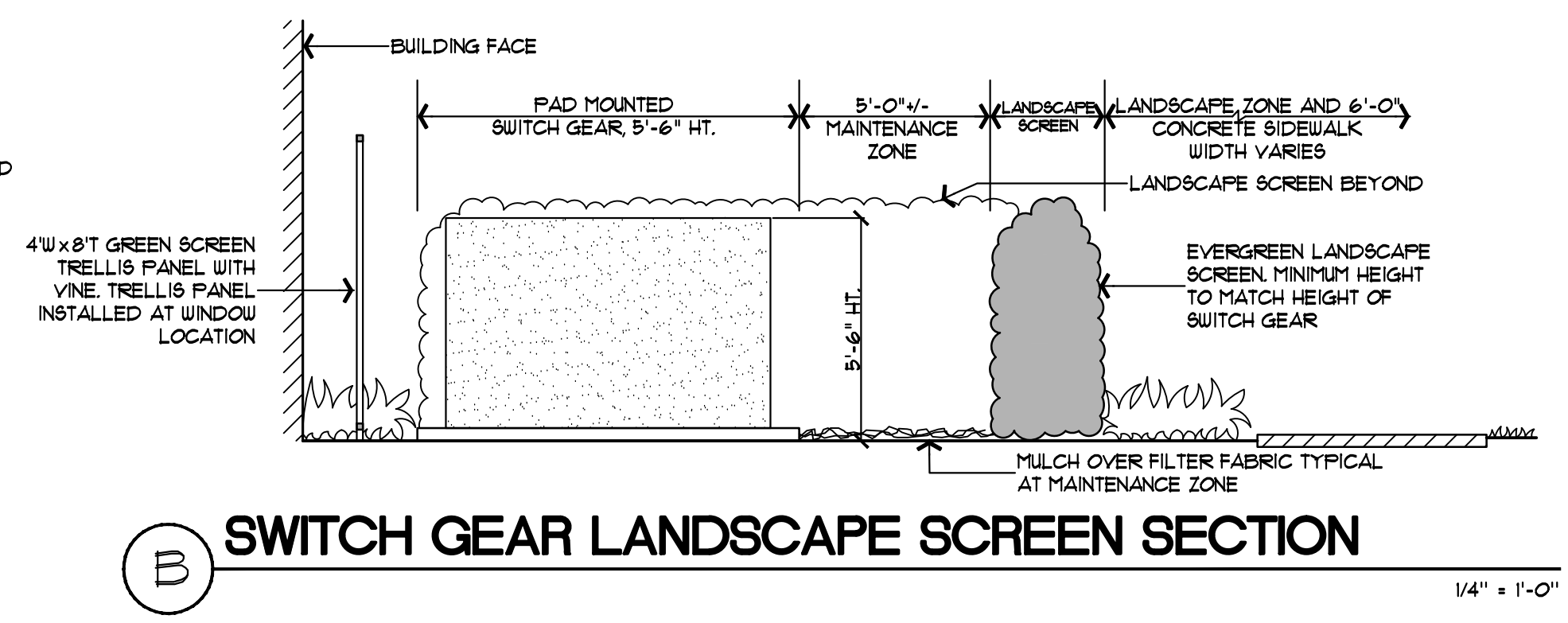
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*MIXED PLANTING DETAILS PREPARED BY OJB LANDSCAPE ARCHITECTS, ON LONGER RUNS OF MIXED PLANTING BED, PLANT MATERIAL SPACING SHALL BE CONSISTENT WITH DETAIL AND ADJUSTED FOR LENGTH.



A TREE PIT + UNDERDRAIN SYSTEM



Old Town fiberglass

Freestanding Planters

Matrix

*DRIP IRRIGATION TO POTS TYPICAL

Lido Bowls

Model No.	Outside Dia.	Inside Dia.	Height	Rim	Weight
ML3417	34"	30"	17"	2"	28
ML4020	40"	36"	20"	2"	38
ML6040	60"	54"	40"	3"	100

Model No.	Outside Dia.	Inside Dia.	Height	Rim	Weight
LB3014	30"	24"	14"	3"	22

Old Town Fiberglass, Inc.
 456 South Montgomery Way
 Orange, CA 92668-4015
 Tel: 714.633.3732
 Fax: 714.633.3917
 E-mail: info@oldtownfiberglass.com
 On-line: OldTownFiberglass.com

City of Richardson
 Development Plan Approved subject to Building Code and other City regulations

Approved By: M. Bireima
 City Manager or Designee

Date: 12/08/2014

LANDSCAPE PLAN
 CITYLINE APARTMENTS BLOCK 'B'
 1250 STREET E
 BUSH CENTRAL STATION ADDITION
 RICHARDSON, TEXAS

OWNER:
 BCS WEST LAND INVESTMENTS, LP
 C/O KDC DEVELOPMENT LLC
 818 PRESTON ROAD, SUITE 100
 214.636.1100
 DALLAS, TEXAS 75225
 CONTACT: SCOTT OZYMY
 scott.ozymy@KDC.com

DEVELOPER:
 JLB PARTNERS, LLC
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 SEVENTH FLOOR
 DALLAS, TEXAS 75220
 214.276.6864
 CONTACT: ERIC OVERTON
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LANDSCAPE ARCHITECT:
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 1424 GREENVILLE AVENUE
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 214.987.1300
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 darthur@envirodesign-dallas.com

Plotted By: Brian Arthur, Sheet Set: K1a, Layout: Block B - Sheet 3 - 30 Scale, September 10, 2014, 12:15:33 PM, P:\AutoCAD\Projects\CityLine - Richardson, TX (JLB)\Submittal\CityLine - submittal Block B.dwg
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Cap Style Options:

Dome $\phi 6.63$

Standard Flat

Fixed Bollard

Stirrups

#4 Rebar

Recommended footing Engineering by others

ELEVATION VIEW - FOUNDATION

Specification

Bollard Material (6" Nominal Size)

IBF06040 Sch 40 ASTM A-53 Carbon Steel

Carbon Steel Bollard Finish

Powdercoat RAL # **7024**

Bollard Cap Style

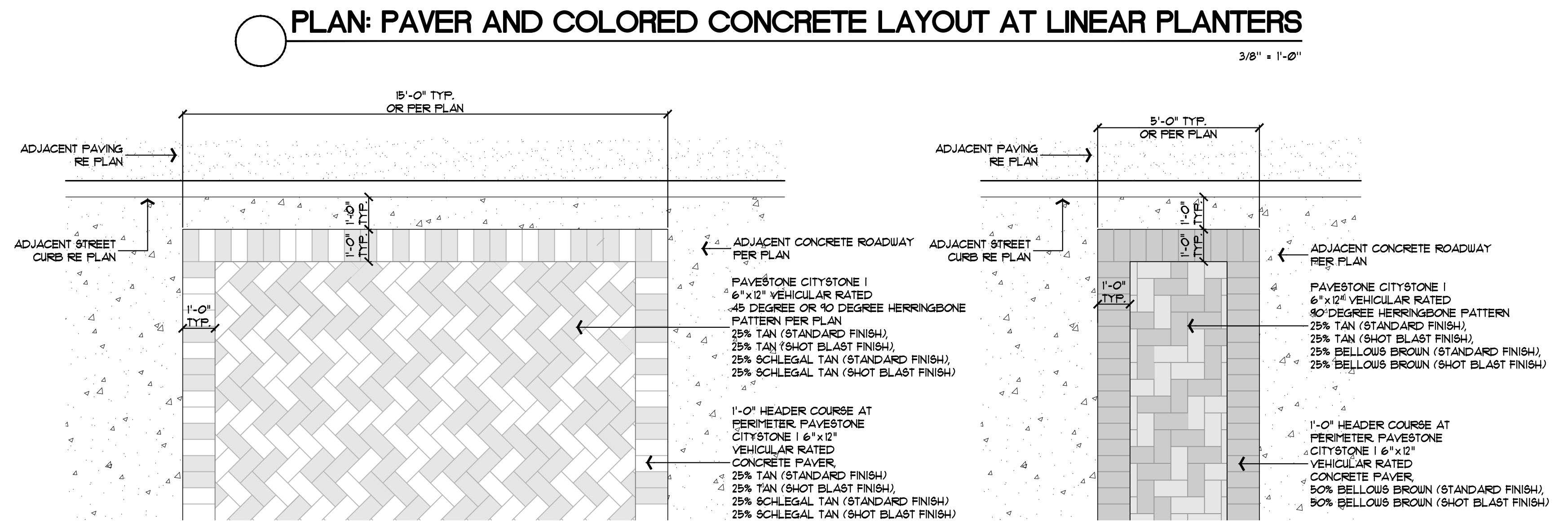
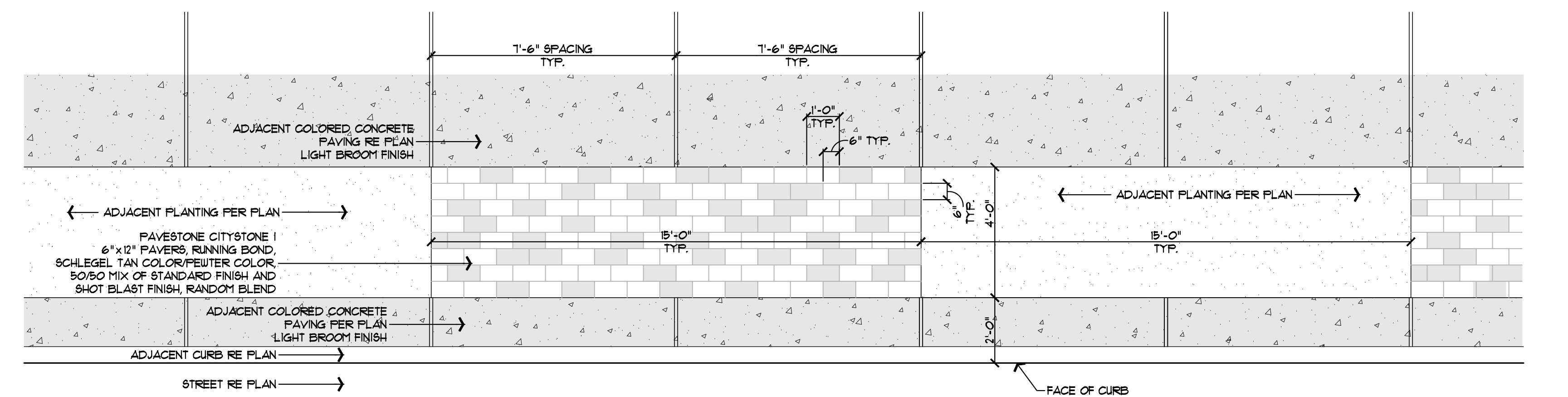
Standard Flat

#4 Rebar Stirrups & Horizontal Reinforcement

END VIEW - FOUNDATION

Series Number:	6" CS & SS Fixed	Rev:	R 0	Product Line:	Fixed	Drawn By:	JPC	Drawing Num:	IBF06040
Product Family:	CPSB	Product Sub-Line:		Produced On:	2010-10	Drawing Rev:		Sheet:	1 of 1
Product Class:	Standard								

CUT SHEET



SECTION A-A

6072 METRO Tree Grate

60" x 60" Tree grate in two sections for pedestrian loads only

1/2" Maximum slot opening for A.D.A. compliance and pedestrian safety

Cast from 100% recycled gray iron

Tree opening: 17"

Finish: Unfinished

Use frame model: 6000F

Weight: iron = 442 lb. / 201 kg

DO NOT SCALE DRAWING

IRONSMITH

41-701 Corporate Way #3
Palm Desert, CA 92260
(800) 338-4766
(760) 776-5080 Fax

HARDSCAPE MATRIX - SITE PERIMETER			
ITEM	FINISH	COLOR	COMMENTS/MODEL
6x12 CONCRETE PAVER 60MM (PEDESTRIAN RATED) *	50% STANDARD FINISH 50% SHOT BLAST FINISH	SCHLEGEL TAN, PEWTER	CITYSTONE I, 1/2 RUNNING BOND, SAND SET ON CONCRETE SUB-SLAB, REFER TO CIVIL FOR SLAB THICKNESS AND REINFORCING, AVAILABLE FROM PAVESTONE CO.
6x12 CONCRETE PAVER 80MM (VEHICULAR RATED) * (PAVER FIELDS TYPICAL)	50% STANDARD FINISH 50% SHOT BLAST FINISH	TAN, TAN (SHOT), SCHLEGEL TAN, SCHLEGEL TAN (SHOT) - (25/25/25/25 MIX)	CITYSTONE I, 45 DEGREE OR 90 DEGREE HERRINGBONE (PER PLAN) WITH HEADER PICTURE FRAME BORDER, SAND SET ON CONCRETE SUB-SLAB, REFER TO CIVIL FOR SLAB THICKNESS AND REINFORCING, AVAILABLE FROM PAVESTONE CO.
6x12 CONCRETE PAVER 80MM (PEDESTRIAN CROSS WALK TYPICAL)	50% STANDARD FINISH 50% SHOT BLAST FINISH	INFILL: BELLOUS BROWN, BELLOUS BROWN (SHOT), TAN, TAN (SHOT) - (25/25/25/25 MIX) HEADER COURSE: BELLOUS BROWN, BELLOUS BROWN (SHOT) - (50/50 MIX)	CITYSTONE I, 90 DEGREE HERRINGBONE WITH HEADER PICTURE FRAME BORDER, SAND SET ON CONCRETE SUB-SLAB, REFER TO CIVIL FOR SLAB THICKNESS AND REINFORCING, AVAILABLE FROM PAVESTONE CO.
12x12 CONCRETE PAVER 60MM (PEDESTRIAN RATED)	50% STANDARD FINISH 50% SHOT BLAST FINISH	TAN, TAN (SHOT) - 50/50 MIX	CITYSTONE III, 90 DEGREE STACK IN 2x2 MODULE CONSISTING OF FOUR PAVERS IN ONE FINISH. 2x2 MODULE TO ALTERNATE FINISH CHECKERBOARD STYLE, SAND SET ON CONCRETE SUB-SLAB, REFER TO CIVIL FOR SLAB THICKNESS AND REINFORCING, AVAILABLE FROM PAVESTONE CO.
COLORED CONCRETE PAVING (PEDESTRIAN RATED) *	LIGHT BROOM FINISH	SPRING BEIGE	ARCHITECTURAL SAUCUIT AND PATTERN PER PLAN OR 5x5, REFERENCE CIVIL FOR SLAB THICKNESS AND REINFORCING, AVAILABLE FROM PAVESTONE CO.
PORTLAND GRAY CONCRETE PAVING (PEDESTRIAN RATED) *	LIGHT BROOM FINISH	PORTLAND GRAY	ARCHITECTURAL SAUCUIT AND PATTERN PER PLAN OR 5x5, REFERENCE CIVIL FOR SLAB THICKNESS AND REINFORCING.
DECOMPOSED GRANITE GRAVEL *	LIGHTLY COMPACTED WITH STABILIZER BINDER	TEXAS PINK	ALAMO STONE
BLACK STAR GRAVEL *	N/A	CHARCOAL/BLACK	ALAMO STONE
TRASH RECEPTACLE *	DIAMOND STAINLESS	STAINLESS STEEL, SLATE	FORMS-SURFACES, UNIVERSAL RECEPTACLE, (36) GALLON, STANDARD SIDE OPENING, STAINLESS DIAMOND W/ POLYETHYLENE SLATE LID, SURFACE MOUNT TO CONCRETE OR SUB-SLAB (FORMS-SURFACES.COM)
BICYCLE RACK *	ALUMINUM TEXTURE	SLATE TEXTURE	FORMS-SURFACES, TRIO BIKE RACK, SURFACE MOUNTED (FORMS-SURFACES.COM)
TREE GRATE *	NATURAL/UNFINISHED	NATURAL/UNFINISHED	IRONSMITH, METRO CAST IRON TREE GRATE, 60" SQUARE WITH 17" OPENING (IRONSMITH.CO)
POWDER COATED STEEL BOLLARD *	POWDER COATED	TO MATCH LIGHT FIXTURES/RAL 7024	CALPIPE BOLLARD, ARCHITECTURAL LIGHTING ASSOCIATES, STANDARD FLAT CAP
KNIGHT BENCH *	POWDER COATED	ALUMINUM TEXTURE	LOCATED PER PLAN, FORMS-SURFACES, KNIGHT BENCH, BACKED WITH ARMRESTS, 98KNI-096N, STANDARD ALUMINUM POWDER COAT TEXTURE WITH IPE SLATS, SURFACE MOUNTED TO CONCRETE OR SUB-SLAB (FORMS-SURFACES.COM)
FREESTANDING DECORATIVE POTS	GLOSS	TO BE DETERMINED	OLD TOWN FIBERGLASS, MATRIX/LIDO BOUL MODELS (OLDTOWNFIBERGLASS.COM), DRIP IRRIGATION TO POTS TYPICAL
GREEN SCREEN FREESTANDING TRELLIS	N/A	BLACK	GREEN SCREEN FREESTANDING TRELLIS PANEL, 4' WIDE x 8' TALL, CONCRETE FOOTING, AVAILABLE FROM GREEN SCREEN INC.

* HARDSCAPE MATERIALS AND SITE FURNISHINGS ARE TO MATCH OVERALL CITYLINE DEVELOPMENT SITE. VERIFY SELECTION PRIOR TO PURCHASE AND INSTALLATION. SELECTIONS SHOWN ARE PER OUR LANDSCAPE ARCHITECTS (OFFICE OF JAMES BURNETT) DRAWINGS DATED 08 APRIL 2014.

City of Richardson

Development Plan approved subject to Building Code and other City regulations

Approved By: M. Bireima
City Manager or Designee

Date: 12/08/2014

LANDSCAPE PLAN
CITYLINE APARTMENTS BLOCK 'B'
1250 STREET E
BUSH CENTRAL STATION ADDITION
RICHARDSON, TEXAS

OWNER:
BCS WEST LAND INVESTMENTS, LP
C/O KDC DEVELOPMENT LLC
815 PRESTON ROAD, SUITE 100
214.696.1100
DALLAS, TEXAS 75225
CONTACT: SCOTT OZYMY
scott.ozymy@KDC.com

DEVELOPER:
JLB PARTNERS, LLC
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SEVENTH FLOOR
DALLAS, TEXAS 75220
214.276.6864
CONTACT: ERIC OVERTON
eoverton@jlbpartners.com

LANDSCAPE ARCHITECT:
ENVIRO DESIGN
1424 GREENVILLE AVENUE
SUITE 200
DALLAS, TEXAS 75231
214.381.3010
CONTACT: DICK ARTHUR
darthur@envirodesign-dallas.com

Plotted By: Brian Arthur, Sheet Set: K16a, Layout: K16a, Scale: 1/8" = 1'-0", Date: 02/12/2014, 12:16:38pm, P:\AutoCAD\Projects\CityLine - Richardson, TX (LB)\Submittal\CityLine - submittal Block B.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, and its use is limited to the specific project and site for which it was prepared. Reuse of any part of this document without written authorization and adaptation by EnviroDesign and Associates, Inc. shall be without liability to EnviroDesign and Associates, Inc.

ALT60
ALTIUDE™ LED
5/22/13 • K1_alt60_spec.pdf

Type:
Job:
Catalog number:

Ordering Example: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
Select pole from Kim's Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

DATE: 02/12/2014
Page: 1 of 5

Specifications

ALT60
Approx. Wt. = 27 lbs.

Housing: One piece, low copper aluminum extrusion is mechanically secured with stainless steel fasteners to low copper aluminum die-cast electrical compartment and end cap. The electrical compartment includes an integral support arm for mounting directly to a surface mount pole adaptor or a horizontal slipfitter. A solid barrier wall separates the optical and electrical compartment for thermal control. Electrical compartment and end cap covers are secured with stainless steel fasteners and a single latch at each cover. One piece silicone gaskets seal the compartments at the barrier surface.

Optical Module: The high performance optic utilizes the IP66 rated PicoPrism™ technology securely attached to internal heat sink modules producing incredible uniformity and visual comfort. This PicoPrism™ optic utilizes a canted prism lens aimed toward the task and spreads, horizontally to produce high lumen output as well as great uniformity. All the optical modules are fastened to the body of the luminaire across the center as well as around the perimeter.

Electrical Compartment: Available in voltages from 120V through 480V @ 50/60Hz Class 2 output with power factor >0.9 at full load in accordance with the National Electrical Code, ANSI/NFPA 70. Integral 10kV surge suppression protection standard. To address inrush current, slow blow fuse or type C/D breaker should be used. All electronic components are UL and CSA recognized and mounted directly to a driver tray for maximum heat dissipation and modularity. Module includes a driver, LifeShield™ temperature control device and surge protector. Driver is rated for -40°C starting and has a 0-10V dimming interface for multi-level illumination options. All electronic components are IP66 rated, 347V and 480V currents may have a step-down transformer.

Support Arm: Die-cast, low copper aluminum with splice access cover and tool-less entry. A die-cast pole adaptor and an internal reinforcing plate are provided with wire strain relief. Arm adaptor is circular cut for specified round pole. For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. Accepts #14 to #8 wire sizes and is factory prewired to electrical module quick-disconnect plug inside the electrical compartment.

Optional Horizontal Slipfitter: Cast low copper aluminum with stamped, splice access cover. A die-cast adaptor plate is provided to secure the luminaire to 1-1/2" to 2" IPS pipe size arms. For field wire connections, a terminal block is mounted in the arm cavity and accessible behind the splice access cover. Accepts #14 to #8 wire sizes and is factory prewired to electrical module quick-disconnect plug inside the electrical compartment.

Optional Wall Mount: The Altitude easily mounts to the wall. A cast aluminum mounting plate is attached to the wall over the junction box. Bolt the Speed Mount to the cover plate. Then install the assembly over the mounting plate. Slide the luminaire into place for hands free wiring and finishing.

Finish: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LC) Light Gray, and (CC) Custom Color (includeRAL).

Listed to: UL 1598 Standard for luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2/250.0 Luminaires. RoHS compliant. Meets Bay Area American provisions within ARSA.

CAUTION: Fixtures must be grounded in accordance with national, state and local electrical codes. Failure to do so may result in serious personal injury.

ENVIRO DESIGN
US Patent Numbers D674,960 S and D674,966 S.
Other Patents Pending.
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the lighting practice

Catalog No: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
PROVIDE 16' TALL POLE

Lamp Type: LEDs BY MANUFACTURER

Date: 02/12/2014
Fixture Type:
K16
Page: 1 of 5

ALT60
ALTIUDE™ LED
5/22/13 • K1_alt60_spec.pdf

Type:
Job:
Catalog number:

Ordering Example: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
Select pole from Kim's Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

DATE: 02/12/2014
Page: 2 of 5

Mounting
3SY configuration is available for round poles only.

Cat. No.: 1SA 2SB 2SL 3ST 3SY 4SC 1SW

EPA (Effective Projected Area)
ALT60 0.58 1.17 0.91 1.50 1.50 1.66 n/a

Fixture
Cat. No. designates fixture and light distribution.

Housing: ALT = Altitude

Optic: P = PicoPrism™

Distribution:
 1 = Type I
 2 = Type II
 3 = Type III
 4 = Type IV
 5 = Type V

Current:
 35 = 350 mA
 70 = 700 mA

Light Distribution:
TYPE I TYPE II TYPE III TYPE IV Forward Throw TYPE V Square TYPE R Right TYPE L Left

Electrical Module

Source: 60L = 17W x 23 1/2"

Color Temperature:
 2K = 5000m Amber
 3K = 3000K
 4K = 4000K
 5K = 5000K

Voltage:
 120 = 120V
 208 = 208V
 240 = 240V
 277 = 277V
 347 = 347V
 480 = 480V

* For custom optics and color temperature configurations, contact factory. Plastic friendly.

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Date: 02/12/2014
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5/22/13 • K1_alt60_spec.pdf

Type:
Job:
Catalog number:

Ordering Example: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
Select pole from Kim's Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

DATE: 02/12/2014
Page: 3 of 5

Optional Features

Finish
TOC powder coat
RAL 7024

Color: Black: BL Dark Bronze: DB Stealth Gray: SG Platinum Silver: PS White: WH Custom Color: CC
*Custom color subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color descriptor.

Wall Mounting
Cat. No. 1SW
Select from Mounting on page 2.

Fusing (Internal only):
Cat. No. (see chart at right)
 No Option

Photocell Receptacle
Cat. No. A26
 No Option

Lenses
Cat. No. FGL (Glass) FPL (Polycarbonate) No Option

Neighbor Friendly Optic:
Cat. No. NFO
 No Option

The Altitude™ easily mounts to the wall. A cast aluminum wall bracket is attached to the wall over the junction box. Bolt the Speed Mount to the cover plate. Then install the assembly over the wall mount bracket. Side the luminaire into place for hands free wiring and finishing.

High temperature fuse holders factory installed inside the fixture housing. Fuse is included.
Cat. No.: SF for 120, 277 and 347 Line Volt
 DF for 208, 240 and 480 Line Volt

Rotatable photocell receptacle provided for NEMA base photocell (by others).

One-piece flat glass or polycarbonate lens slips into reveal. Extra silicone gasketing will be provided to retain a clear optical compartment. (Only available for 350mA systems).
CAUTION: Use only when vandalism is anticipated to be high.

Integrated Neighbor Friendly Optic on each PicoPrism™ module to completely control unwanted backlight. Most effective with Type III and IV distributors.

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PROVIDE 16' TALL POLE

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Date: 02/12/2014
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Ordering Example: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
Select pole from Kim's Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

DATE: 02/12/2014
Page: 4 of 5

Optional Features

Horizontal Slipfitter Mount
Cat. No. HSF
 No Option

Replaces standard mounting arm with a cast aluminum fitter to adapt to a horizontal 1 1/2" to 2" pipe-size mounting and (1 1/2" to 2 1/4" O.D.). The casting has a 4" - 5" adjustment to accommodate davit arms that are not horizontal.

Vertical Slipfitter Mounts
Cat. No. includes Mounting
Cat. No. (See right)
 No Option

Allows fixture or fixtures with standard mounting arm to mount to a pole with a 2" pipe-size tenon (2 3/4" O.D.). Minimum 4" tenon length required. Specify configuration (1SA, 2SB, 2SL, 3ST, 3SY, 4SC) 4" round or square aluminum with flush cap. Finish to match fixture and arm.

NOTE: 3SY only available on round slipfitter.

Cat. No. VSF-1SA VSF-2SB VSF-2SL VSF-3ST VSF-3SY VSF-4SC

Cat. No. VSF-1SA VSF-2SB VSF-2SL VSF-3ST VSF-4SC

Mounting Configuration
1SA - single arm mount
2SB - 2 @ 180°
2SL - 2 @ 90°
3ST - 3 @ 90°
3SY - 3 @ 120°
4SC - 4 @ 90°

Wireless Control
Cat. No. WH-I
 No Option

In fixture WH-I Hub™ wireless control module features on/off/variable and step dimming, SNAP protocol mesh network, AES-128 encryption, occupancy sensor interface and intuitive, user-friendly software. The most comprehensive and up to date information can be found at http://www.hubbell-automation.com/products/whubbe_infrastructure.

0-10V Dimming Interface
Driver has a 0-10V dimming interface with a dimming range of 10:1-100%. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and N'FTV. Note: Not compatible with current sourcing dimmers.

Warranty
Kim Lighting warrants Altitude™ products ("Products") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finishes, (iii) a period of six (6) years for LED Light Engines (PicoPrism™ and), and (iv) a period of five (5) years for LED power components (LED Driver, LifeShield™ device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product. Occupancy sensors, Surge Protector, dimmer and relay wiring components are covered by the manufacturer's warranty.

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the lighting practice

Catalog No: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
PROVIDE 16' TALL POLE

Lamp Type: LEDs BY MANUFACTURER

Date: 02/12/2014
Fixture Type:
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ALT60
ALTIUDE™ LED
5/22/13 • K1_alt60_spec.pdf

Type:
Job:
Catalog number:

Ordering Example: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
Select pole from Kim's Arms and Poles Selection Guide. If pole is provided by others indicate O.D. for arm fitting.

DATE: 02/12/2014
Page: 5 of 5

Specifications

Spec/Condition	Amber (1800m Average)	4K Average	5K Average	5000m Average
Compliance with CCT 100	9000m	4100 ± 500	5100 ± 500	6100 ± 500
Color Rendering Index (CRI)	N/A	7.5	7.5	7.5
Power Factor	95+	> 90	> 90	> 90

L70 Data

Rated Power	2000 hrs	24000 hrs	> 24000 hrs
350 mA	240,000	> 240,000	> 240,000

Electrical Drive Current

Vrms AC	350mA				700mA				950mA				1200mA			
	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms	Supply Vrms		
120	83	63	110	130	86	105	173	209	104	125	221	246				
208	30	63	63	130	30	105	1000	209	60	125	127	246				
240	26	63	64	130	64	105	90	209	60	125	111	246				
277	23	63	47	130	38	105	75	209	43	125	66	246				
347	18	63	37	130	30	105	60	209	36	125	77	246				
480	13	63	20	130	22	105	40	209	2.6	125	33	246				

B.I.G. Rating (TM18) in Lumens where B = Backlight, U = Uplight, C = Clear

Fixture	Type I	Type II	Type III	Type III-NFO	Type IV	Type IV-NFO	Type V	Type V-NFO	Type V-NFO
ALT60	B3 LU C2	B3 LU C2	B3 LU C2	B3 LU C2	B3 LU C2	B3 LU C2	B3 LU C2	B3 LU C2	B3 LU C2
ALT96	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4
ALT120	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4	B4 LU C4

Absolute Lumens 350 mA

Temperature	Type I	Type II	Type III	Type III-NFO	Type IV	Type IV-NFO	Type V	Type V-NFO
4000K	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5000K	5589	5590	5632	4631	5610	4577	6120	5613
6000K	4019	4045	4141	3325	4058	4273	4443	4331

Absolute Lumens 700 mA

Temperature	Type I	Type II	Type III	Type III-NFO	Type IV	Type IV-NFO	Type V	Type V-NFO
4000K	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5000K	9736	10118	10305	8660	9679	8333	10149	9730
6000K	7040	7040	7040	5660	7040	7040	7040	7040

LED performance is based on typical conditions. For more information on LED performance, please visit www.kim-lighting.com. All data is based on the most current information from Kim Lighting. All data is based on the most current information from Kim Lighting.

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the lighting practice

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PROVIDE 16' TALL POLE

Lamp Type: LEDs BY MANUFACTURER

Date: 02/12/2014
Fixture Type:
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ALT60
ALTIUDE™ LED
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DATE: 02/12/2014
Page: 6 of 6

Optional Features

Horizontal Slipfitter Mount
Cat. No. HSF
 No Option

Replaces standard mounting arm with a cast aluminum fitter to adapt to a horizontal 1 1/2" to 2" pipe-size mounting and (1 1/2" to 2 1/4" O.D.). The casting has a 4" - 5" adjustment to accommodate davit arms that are not horizontal.

Vertical Slipfitter Mounts
Cat. No. includes Mounting
Cat. No. (See right)
 No Option

Allows fixture or fixtures with standard mounting arm to mount to a pole with a 2" pipe-size tenon (2 3/4" O.D.). Minimum 4" tenon length required. Specify configuration (1SA, 2SB, 2SL, 3ST, 3SY, 4SC) 4" round or square aluminum with flush cap. Finish to match fixture and arm.

NOTE: 3SY only available on round slipfitter.

Cat. No. VSF-1SA VSF-2SB VSF-2SL VSF-3ST VSF-3SY VSF-4SC

Cat. No. VSF-1SA VSF-2SB VSF-2SL VSF-3ST VSF-4SC

Mounting Configuration
1SA - single arm mount
2SB - 2 @ 180°
2SL - 2 @ 90°
3ST - 3 @ 90°
3SY - 3 @ 120°
4SC - 4 @ 90°

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Cat. No. WH-I
 No Option

In fixture WH-I Hub™ wireless control module features on/off/variable and step dimming, SNAP protocol mesh network, AES-128 encryption, occupancy sensor interface and intuitive, user-friendly software. The most comprehensive and up to date information can be found at http://www.hubbell-automation.com/products/whubbe_infrastructure.

0-10V Dimming Interface
Driver has a 0-10V dimming interface with a dimming range of 10:1-100%. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and N'FTV. Note: Not compatible with current sourcing dimmers.

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the lighting practice

Catalog No: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
PROVIDE 16' TALL POLE

Lamp Type: LEDs BY MANUFACTURER

Date: 02/12/2014
Fixture Type:
K16
Page: 6 of 6

ENVIRO DESIGN
LANDSCAPE ARCHITECTURE
SITE PLANNING

7424 Greenville Ave., Suite 200, Dallas, TX 75231 (214) 987-3010

CityLine Apartments
1250 Street E
Richardson, Texas

the lighting practice

Catalog No: 1SA-ALT-3-P-35-60L-4K-VOLT-FINISH-OPTIONS-FGL
PROVIDE 16' TALL POLE

Lamp Type: LEDs BY MANUFACTURER

Date: 02/12/2014
Fixture Type:
K16
Page: 6 of 6

City of Richardson
 Development Plan Approved subject to
 Building Code and other City regulations

 Approved By: M. Bireima
 City Manager or Designee

 Date: 12/08/2014


LANDSCAPE PLAN
 CITYLINE APARTMENTS BLOCK 'B'
 1250 STREET E
 BUSH CENTRAL STATION ADDITION
 RICHARDSON, TEXAS

OWNER:
 ECS WEST LAND INVESTMENTS, LP
 C/O KDC DEVELOPMENT LLC
 815 PRESTON ROAD, SUITE 100
 DALLAS, TEXAS 75225
 CONTACT: SCOTT OZIMY
 scott.ozimy@KDC.com

DEVELOPER:
 JLB PARTNERS, LLC
 3890 W. NORTHWEST HIGHWAY
 SEVENTH FLOOR
 DALLAS, TEXAS 75220
 214.216.8864
 CONTACT: ERIC OVERTON
 eoverton@jlbpartners.com

LANDSCAPE ARCHITECT:
 ENVIRO DESIGN
 1424 GREENVILLE AVENUE
 SUITE 200
 DALLAS, TEXAS 75231
 214.987.3010
 CONTACT: DICK ARTHUR
 darthur@envirodesign-dallas.com

LANDSCAPE PLAN
 Sheet
6
 of
8




Ordering Number: _____

Name: _____

Type: **TYPE LE**

Decorative Wall-Mounted Lighting



WST

METAL HALIDE: 50W-175W
HIGH PRESSURE SODIUM: 35W-150W

FEATURES & SPECIFICATIONS

INTENDED USE — For building- and wall-mounted applications.

CONSTRUCTION — Rugged, die-cast, single-piece aluminum housing. Die-cast door frame has a 1/8" thick tempered glass lens. Door frame is fully gasketed with one-piece solid silicone.

OPTICS — Integrated reflector for superior uniformity and control. Reflector is interchangeable. Three full cut-off dim buttons available: FT (forward throw), MD (medium throw) and WT (wide throw).

ELECTRICAL — Ballast: 50W-150W utilizes a high reactance, high power factor ballast. Metal halide 150W and below are standard with pulse-start technology. 35W utilizes a standard high power factor ballast. 175W utilizes a constant voltage electronic transformer ballast. CSA, NEMA and IECI required for products shipped outside of the US for 175W. Not available 175W SNA. Ceramic metal halide lamps are recommended for use in applications where superior color rendition, lumen maintenance and longer lamp life are desired. Quick disconnect plug easily disconnects reflector from ballast. Ballasts are 100% factory tested.

Socket: Franklin, medium base socket with copper alloy, nickel-plated screw shell and center contact. ILL listed 600W, 600V AEP rated.

Finish: Standard finish is textured dark bronze (DOB) corrosion-resistant polyester powder finish. Additional finishes and colors are available. Stippling is also available.

INSTALLATION — Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with each installation.

LISTINGS — ILL Listed (standard), CSA Certified (see Options), Suitable for wet locations (lamp location listed in less-up orientation), WUL options allow wet location listing up orientation (see Options). IP65 rated, 25°C ambient. IESL E.S. Patent No. 7,277,460.

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.lithonia.com/customer-service/terms_and_conditions.asp. Note: Specifications subject to change without notice.

ORDERING INFORMATION For shorter lead times, configure product using **standard options** (shown in bold).

Series	Wattage/Source	Distribution	Voltage	Ballast	Mounting	Options
WST	High Pressure Sodium	Metal Halide	120V	(blank)	(blank)	Shipped separately
	35W	50W	240V	OWI	90W	IF
	50W	70W	277V	OWI	UTS	DC12
	70W	100W	247V	OWI	UTS	DC2012
	100W	150W	277V	OWI	UTS	DC2012
	150W	175W	277V	OWI	UTS	DC2012

Options (continued)

Option	Description	Finish*	Lamp**
ELED	Emergency LED secondary source battery pack with time delay (4-7 min. operating temperature)	(blank)	LPI Lamp included
ZLED	Emergency LED secondary source (two modular) battery pack with time delay (4-7 min. operating temperature)	DSST	LPL Lamp included
DFL	Diffusing lens	DNAT	
EC	Emergency circuit**	DWHG	
IS	Internal backlight shield**	DRIB	
FE	Photoelectric cell/button type (VAT)**	DRIB	

Emergency Option Lamp Compatibility

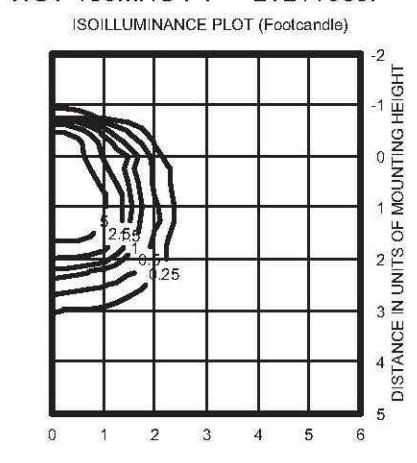
Lamp options	DC12	DC12	DC2012	DC2012	EC	ELED	ZLED
35S	■	■	■	■	■	■	■
50S	■	■	■	■	■	■	■
70S	■	■	■	■	■	■	■
100S	■	■	■	■	■	■	■
150S	■	■	■	■	■	■	■
50M	■	■	■	■	■	■	■
70M	■	■	■	■	■	■	■
100M	■	■	■	■	■	■	■
175M	■	■	■	■	■	■	■

LITHONIA LIGHTING
Aerially Brands Company

OUTDOOR: One Lithonia Way, Gainesville, GA 30602 Phone: 770.892.8000 Fax: 770.898.1200 www.lithonia.com ©2003-2012 Aerially Brands Lighting, Inc. All rights reserved. Rev. 12/10/12

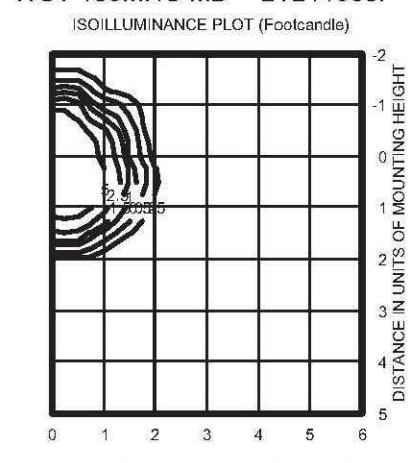
WST Metal Halide, High Pressure Sodium Wall Mounted

WST 150MH-C FT LTL11069P
ISOLIMINANCE PLOT (Footcandle)



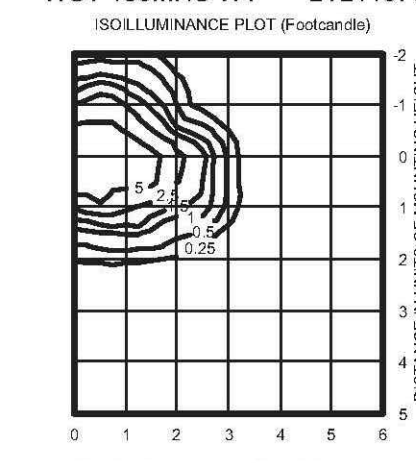
150W pulse start metal halide lamp, horizontal lamp orientation. Footcandle values based on 12" mounting height, 14000 rated lumens. Luminaire Efficiency: 62.9%.

WST 150MH-C MD LTL11068P
ISOLIMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation. Footcandle values based on 12" mounting height, 12500 rated lumens. Luminaire Efficiency: 60.2%.

WST 150MH-C WT LTL11070P
ISOLIMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation. Footcandle values based on 12" mounting height, 14000 rated lumens. Luminaire Efficiency: 62.5%.

Lamp	Initial lumens	10'	12'	14'	16'
50W MH	3,900	0.41	0.30	0.22	0.17
70W MH	5,500	0.62	0.43	0.31	0.24
100W MH	8,500	0.95	0.66	0.48	0.37
150W MH	12,500	1.41	0.98	0.71	0.55
175W MH	12,800	1.44	1.0	0.73	0.56

Lamp	35W HPS	50W HPS	70W HPS	100W HPS	150W HPS
35W HPS	1,250	0.36	0.18	0.13	0.10
50W HPS	4,000	0.45	0.31	0.23	0.17
70W HPS	6,400	0.72	0.50	0.37	0.28
100W HPS	9,500	1.07	0.74	0.54	0.41
150W HPS	16,000	1.80	1.25	0.91	0.70

Ordering Information:

Model	Finish	Style	Transformer Input Voltage	Stem
MO1A - Aluminum	BL - Black	SM - No Mount (Cap Only)	6-16 Transformer (Stakes S1, S2 and S4 only)	2-3" Stem
MO1B - Bronze	BR - Textured Black	SM - Surface Mount	120-277 Volt Input (Stake S1 only)	6-8" Stem
MO1S - Stainless	BN - Bronze	SM - Surface Mount	220-277 Volt Input (Stake S3 only)	12-12" Stem
	BNT - Textured Bronze	S1-S2 - 12" Stake (Available with up to 30" stem only)	220-277 Volt Input (Stake S3 only)	18-18" Stem
	DAT - Textured Dark	S1-S4 - 18" Stake (Available with up to 30" stem only)		24-24" Stem
	DRT - Textured Green	S1-S2 - 12" Adjustable Stake (Available with 12" stem only)		30-30" Stem
	SI - Silver	S1-S4 - 18" Adjustable Stake (Available with 18" stem only)		36-36" Stem
	OY - Grey	S2-S4 - 24" Adjustable Stake (Available with 24" stem only)		42-42" Stem
	BE - Beige	S1-S2 - 12" Junction with Transformer (Available with up to 30" stem only)		48-48" Stem
	OWT - Textured Granite	S1-S4 - 18" Junction with Transformer (Available with up to 30" stem only)		
	SAT - Textured Sand	S1-S2 - 12" Junction (Available with up to 30" stem only)		
	PAT - Textured Patina	S1-S4 - 18" Junction (Available with up to 30" stem only)		
	EAT - Textured Earth			
	CA - Clear Anodized (MO1S only)			
	NAT - Natural (MO1B & MO1S only)			
	POL - Polished (MO1B & MO1S only)			
	AGE - Aged (MO1B only)			
	BRU - Brushed (MO1S only)			

Example: MO1S - POL - S1-18 - 0 - 6

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Job: _____

Approval: _____

Type: _____

VISION-3
LIGHTING

In Grade Stake Mount **MODEL MO1**
12/120/230/277 Volt, 75 Watt Max., Ø2 1/2" Stake Mount

Specifications:

Housing: Stake and Junction housings made from corrosion resistant, thermoplastic PVC. Junction housing is supplied with two integral 1/2" slip fittings allowing for conduit connection, leak proof cable entry, and feed through wiring. (Conduit and cable not included).

Cap: Cap machined from 6061-T6 aluminum, C36000 brass, or 304 stainless steel. Cap contains a 1/2" NPS threaded mounting hole, and is locked to housing with three 18-8 stainless steel set screws.

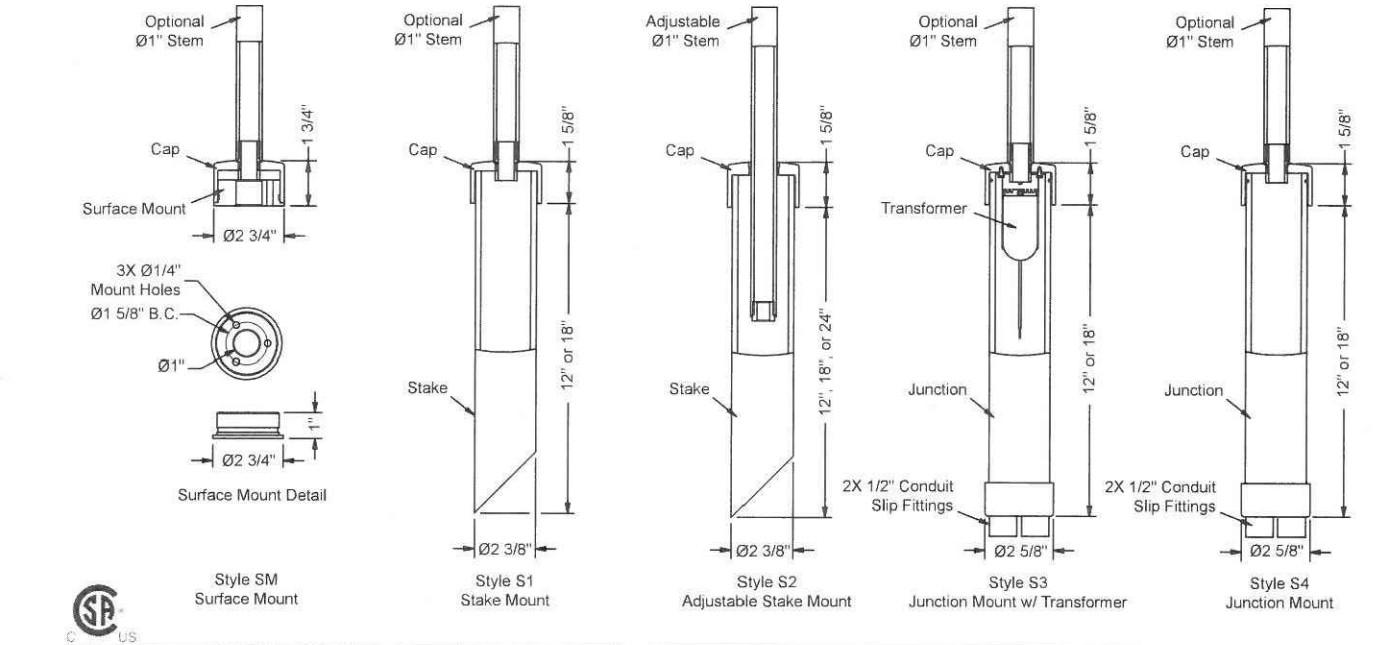
Stems: Stems are machined from 6061-T6 aluminum, C36000 brass, or 304 stainless steel, and are threaded 1/2" NPS on both ends. Stem option available in lengths of 3", 6", 12", 18", 24", 30", 36", 42", and 48".

Seals: O-ring groove on cap allows for use of an O-ring to prevent leaking between cap and fixture knuckle. (Note: All Vision3 fixtures come with a high temperature, black Viton O-ring on the knuckle for this purpose). On styles S3 and S4, a silicone O-ring between the cap and housing ensures a watertight junction housing.

Finish: TGIC thermo set polyester powder coat paint available in 14 standard colors. On aluminum model, finish is applied over a corrosion resistant, hexavalent chromium free, RoHS compliant coating. Aluminum model available in one additional metal finish: Clear Anodized. Brass model available in three additional metal finishes: Natural, Polished, and Aged. Stainless steel model available in three additional metal finishes: Natural, Polished, and Brushed.

Electrical: Style S3 transformer option includes a 75VA, 11.6V output, electronic transformer in 120V, 230V, or 277V input. Transformer mounted to cap with a 304 stainless steel bracket and 18-8 stainless steel hardware.

Certification: CSA tested & certified to US and Canadian safety standards for wet location landscape use per UL 1838 (all except 230V model).



Ordering Information:

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MO1B - Bronze	BR - Textured Black	SM - Surface Mount	120-277 Volt Input (Stake S1 only)	6-8" Stem
MO1S - Stainless	BN - Bronze	SM - Surface Mount	220-277 Volt Input (Stake S3 only)	12-12" Stem
	BNT - Textured Bronze	S1-S2 - 12" Stake (Available with up to 30" stem only)	220-277 Volt Input (Stake S3 only)	18-18" Stem
	DAT - Textured Dark	S1-S4 - 18" Stake (Available with up to 30" stem only)		24-24" Stem
	DRT - Textured Green	S1-S2 - 12" Adjustable Stake (Available with 12" stem only)		30-30" Stem
	SI - Silver	S1-S4 - 18" Adjustable Stake (Available with 18" stem only)		36-36" Stem
	OY - Grey	S2-S4 - 24" Adjustable Stake (Available with 24" stem only)		42-42" Stem
	BE - Beige	S1-S2 - 12" Junction with Transformer (Available with up to 30" stem only)		48-48" Stem
	OWT - Textured Granite	S1-S4 - 18" Junction with Transformer (Available with up to 30" stem only)		
	SAT - Textured Sand	S1-S2 - 12" Junction (Available with up to 30" stem only)		
	PAT - Textured Patina	S1-S4 - 18" Junction (Available with up to 30" stem only)		
	EAT - Textured Earth			
	CA - Clear Anodized (MO1S only)			
	NAT - Natural (MO1B & MO1S only)			
	POL - Polished (MO1B & MO1S only)			
	AGE - Aged (MO1B only)			
	BRU - Brushed (MO1S only)			

Example: MO1S - POL - S1-18 - 0 - 6

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City of Richardson
 Development Plan Approved subject to
 Building Code and other City regulations

 Approved By: M. Bireima
 City Manager or Designee

 Date: 12/08/2014

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