



COUNCIL WORK SESSION
Wednesday, August 3, 2016
Immediately Following Regular Council Meeting
Coon Rapids City Center
Conference Room 1

Call to Order

Pursuant to Minnesota Statute 13D.04, subd. 2, the City Council will meet in work session to discuss the following:

1. Discuss City Streetlighting
2. Discuss Options for Exterior Signage at Sand Creek Park

Other Business

Adjourn



City Council Work Session

1.

Meeting Date: 08/03/2016

Subject: Discuss City Streetlighting

From: Tim Himmer, Public Works Director

INTRODUCTION

Staff would like to meet with the City Council to discuss streetlighting policies and procedures throughout the City. In particular, we would like to discuss a couple of prominent corridors and the potential for a new standard LED light fixture.

DISCUSSION

Currently there are streetlights throughout the City that are owned and maintained by up to four separate entities. The attached map shows location, ownership, and type. The City has agreements with Connexus Energy and XCel Energy for the maintenance of the lights located within their service area, and pays a monthly fee per light to cover vandalism, knock downs, outages, etc. The lights under the responsibility of Coon Rapids are maintained by an electrical contractor, under three year contracts, at an agreed upon rate for various repairs.

The Main Street corridor (Round Lake Blvd to Highway 10) currently includes a lantern style high pressure sodium fixture mounted on poles that are spaced approximately 100' apart. Due to the environmental conditions, pole type (steel), and road clearing chemicals, the lights along this corridor are starting to fail and are in need attention. These lights are all the responsibility of the City. Staff has received quotes for a few alternative replacement strategies and will present the info to the Council; a lighting consultant that researched and prepared the information will also be available to answer questions. Attached are photos of the options being considered; one that is consistent with the existing lantern style fixture, and a second for more functional downcast lighting. There are certainly a plethora of other options but this was a starting point for staff to assemble the info for Council consideration. Staff has also contacted Connexus Energy to see if they would be willing to provide replacement and ownership of the lighting within this corridor, and they have stated that they could but it would only include their standard shoebox type fixture (see attached image).

The Coon Rapids Boulevard corridor (Highway 47 to Highway 610) currently includes a 3-globe style high pressure sodium fixture mounted on poles that are spaced approximately 100' apart. Like Main Street, environmental conditions & pole style are leading to significant failures throughout the corridor. Additionally, the wiring for these lights is all direct bury (not placed in conduit) and made of aluminum, which causes major concerns for underground failures that are not easy to locate. These lights are also the responsibility of the City. Staff has also received

quotes for a few alternative replacement strategies along this corridor and will present the info to the Council. Attached are photos of the options being considered; one is a more decorative acorn style similar to the recently completed Foley corridor, and the second is more functional downcast lighting (identical to the Main Street option) with a back light for the pedestrian way.

Finally, staff would like to discuss the idea of identifying a standard cobra-head style LED fixture that we could transition to over time for most locations throughout the City. If agreeable, the transition could occur with reconstruction projects when work is already being performed in the neighborhood, or simply used as the replacement when the current light and/or pole fails and becomes due for replacement. A few images are attached for Council consideration; the variations in size are related to the type of fixture they would be replacing to make sure the amount and spread of light is maintained at the various locations.

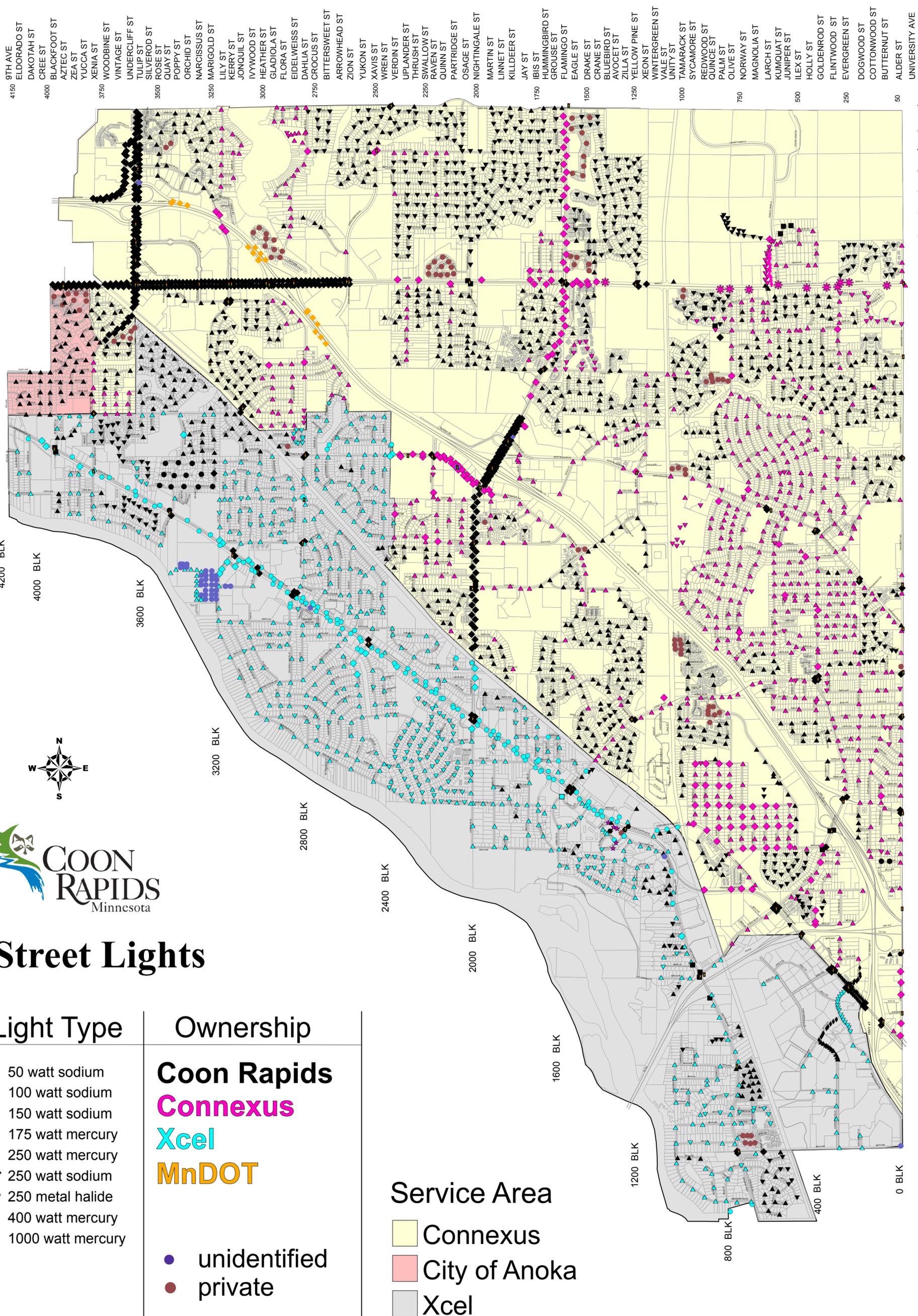
In addition to solving for a few corridors in need of repair/replacement, a transition to LED lighting would provide the City with energy savings in the range of 45% to 65% and maintenance reductions of approximately 70%.

RECOMMENDATION

This item is solely for informational and discussion purposes.

Attachments

Streetlight Map
Main St. LED Options
Shoebox Fixture
Coon Rapids Blvd LED Options
Standard LED Fixtures



4150 9TH AVE
 4000 EL DORADO ST
 4000 DAKOTAH ST
 4000 CREE ST
 3750 BLACKFOOT ST
 3750 AZTEC ST
 3750 ZEA ST
 3750 YUCCA ST
 3750 XENIA ST
 3600 WOODBINE ST
 3600 VINTAGE ST
 3600 UNDERCLIFF ST
 3600 TULIP ST
 3600 SILVEROD ST
 3600 ROSE ST
 3600 QUAY ST
 3600 POPPY ST
 3600 ORCHID ST
 3600 NARCISSUS ST
 3600 MARIGOLD ST
 3600 LILY ST
 3600 KERRY ST
 3600 JONQUIL ST
 3600 IVYWOOD ST
 3600 HEATHER ST
 3600 GLADIOLA ST
 3600 FLORA ST
 3600 EDELWEISS ST
 3600 DAHLIA ST
 3600 CROCUS ST
 3600 BITTERSWEET ST
 3600 ARROWHEAD ST
 3600 ZION ST
 3600 YUKON ST
 3600 XAVIS ST
 3600 WREN ST
 3600 VERDIN ST
 3600 UPLANDER ST
 3600 THRUSH ST
 3600 SWALLOW ST
 3600 RAVEN ST
 3600 QUINN ST
 3600 PARTIDGE ST
 3600 OSAGE ST
 3600 NIGHTINGALE ST
 3600 MARTIN ST
 3600 LINNET ST
 3600 KILLDEER ST
 3600 JAY ST
 3600 IBIS ST
 3600 HUMMINGBIRD ST
 3600 GROUSE ST
 3600 FLAMINGO ST
 3600 EAGLE ST
 3600 DRAKE ST
 3600 CRANE ST
 3600 BLUEBIRD ST
 3600 AVOCET ST
 3600 ZILLA ST
 3600 YELLOW PINE ST
 3600 XEON ST
 3600 WINTERGREEN ST
 3600 VALE ST
 3600 UNITY ST
 3600 TAMARACK ST
 3600 SYCAMORE ST
 3600 REDWOOD ST
 3600 QUINCE ST
 3600 PALM ST
 3600 OLIVE ST
 3600 NORWAY ST
 3600 MAGNOLIA ST
 3600 LARCH ST
 3600 KUMQUAT ST
 3600 JUNIPER ST
 3600 ILEX ST
 3600 HOLLY ST
 3600 GOLDENROD ST
 3600 FLINTWOOD ST
 3600 EVERGREEN ST
 3600 DOGWOOD ST
 3600 COTTONWOOD ST
 3600 BUTTERNUT ST
 3600 ALDER ST
 3600 UNIVERSITY AVE

133RD AVE
 132ND AVE
 131ST AVE
 130TH AVE
 129TH AVE
 128TH AVE
 127TH AVE
 126TH AVE
 125TH AVE
 124TH AVE
 123RD AVE
 122ND AVE
 121ST AVE
 120TH AVE
 119TH AVE
 118TH AVE
 117TH AVE
 116TH AVE
 115TH AVE
 114TH AVE
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 112TH AVE
 111TH AVE
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 107TH AVE
 106TH AVE
 105TH AVE
 104TH AVE
 103RD AVE
 102ND AVE
 101ST AVE
 100TH AVE
 99TH AVE
 98TH AVE
 97TH AVE
 96TH AVE
 95TH AVE
 94TH AVE
 93RD AVE
 92ND AVE
 91ST AVE
 90TH AVE
 89TH AVE
 88TH AVE
 87TH AVE
 86TH AVE
 85TH AVE
 84TH AVE
 83RD AVE

4200 BLK
 4000 BLK
 3600 BLK
 3200 BLK
 2800 BLK
 2400 BLK
 2000 BLK
 1600 BLK
 1200 BLK
 800 BLK
 400 BLK
 0 BLK



Street Lights

Light Type

- ◆ 50 watt sodium
- ▼ 100 watt sodium
- ▲ 150 watt sodium
- 175 watt mercury
- 250 watt mercury
- ◆ 250 watt sodium
- 250 metal halide
- 400 watt mercury
- ★ 1000 watt mercury

Ownership

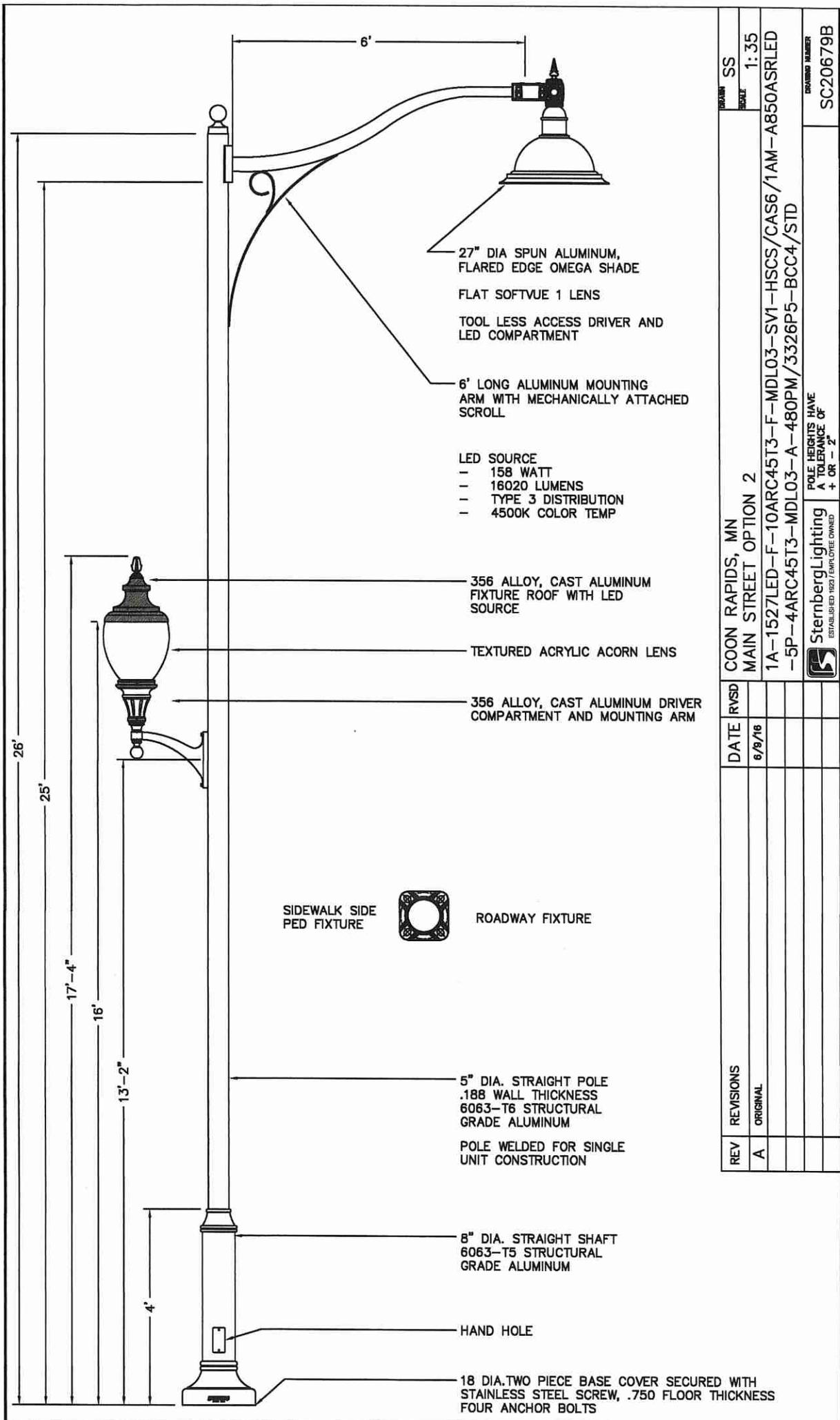
- Coon Rapids**
- Connexus**
- Xcel**
- MnDOT**
- unidentified
- private

Service Area

- Connexus
- City of Anoka
- Xcel



"DD"



27" DIA SPUN ALUMINUM,
FLARED EDGE OMEGA SHADE
FLAT SOFTVUE 1 LENS
TOOL LESS ACCESS DRIVER AND
LED COMPARTMENT
6' LONG ALUMINUM MOUNTING
ARM WITH MECHANICALLY ATTACHED
SCROLL
LED SOURCE
- 158 WATT
- 16020 LUMENS
- TYPE 3 DISTRIBUTION
- 4500K COLOR TEMP

356 ALLOY, CAST ALUMINUM
FIXTURE ROOF WITH LED
SOURCE
TEXTURED ACRYLIC ACORN LENS
356 ALLOY, CAST ALUMINUM DRIVER
COMPARTMENT AND MOUNTING ARM

SIDEWALK SIDE
PED FIXTURE  ROADWAY FIXTURE

5" DIA. STRAIGHT POLE
.188 WALL THICKNESS
6063-T6 STRUCTURAL
GRADE ALUMINUM
POLE WELDED FOR SINGLE
UNIT CONSTRUCTION

8" DIA. STRAIGHT SHAFT
6063-T5 STRUCTURAL
GRADE ALUMINUM

HAND HOLE

18 DIA. TWO PIECE BASE COVER SECURED WITH
STAINLESS STEEL SCREW, .750 FLOOR THICKNESS
FOUR ANCHOR BOLTS

REV	REVISIONS	DATE	RVSD	COON RAPIDS, MN MAIN STREET OPTION 2	SS
A	ORIGINAL	6/9/16		1A-1527LED-F-10ARC45T3-F-MDL03-SV1-HSCS/CAS6/1AM-A850ASRLED -5P-4ARC45T3-MDL03-A-480PM/3326P5-BCC4/STD	SCALE 1:35
					DRAWING NUMBER SC20679B
				POLE HEIGHTS HAVE TOLERANCE OF + OR - 2"	
				SternbergLighting ESTABLISHED 1923, FAIRBANKS, MN	



SternbergLighting

ESTABLISHED 1923 / EMPLOYEE OWNED

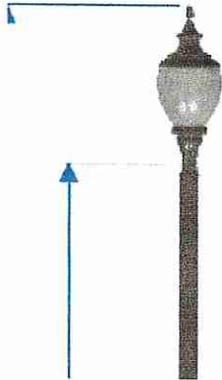
GENESIS  Product Configurator

Catalog Number:
A850SRLED/A/5P/7718FPS/6ARC45T3/MDL05/BK

Type:
"EE"

Customer Approval: _____

technical assembly drawing - subject to Engineering verification by factory



Signature: _____

Date: _____

CENTER POST TOP FIXTURE: A850SRLED

The A850 Old Town series is a traditional acorn style fixture which consists of a decorative cast aluminum finial, cast ballast housing assembly and polycarbonate or acrylic clear textured acorn globe. It shall be appointed with a cast aluminum decorative 4-vane finial.

POLE: 7718FPS/

The 16" diameter cast 356 aluminum alloy base and aluminum shaft shall be a one-piece construction. The pole shall be U.L. or E.T.L. listed in U.S. and Canada.

Model: 7700 (77)
Height: 18 Ft (18)
Shaft Type: Fluted Straight 5 Inch 6061-T6 Aluminum Alloy (FPS)

LIGHT SOURCE: 6ARC45T3/

Array: 6ARC (84 LEDs, 96 Watts with MD_03, 146 Watts with MD_05) (6ARC)
Color Temp: 4500K (45)
Distribution: Type 3 (T3)

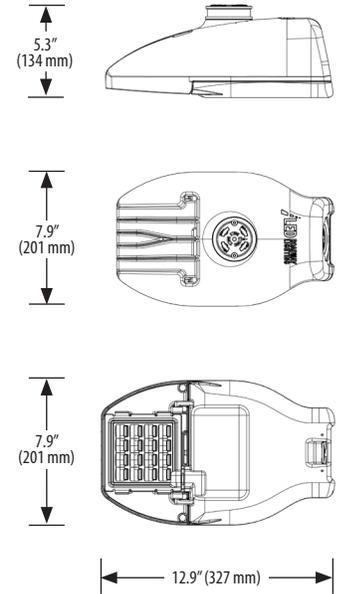
DRIVER: MDL05/

Driver: Multi-Volt Dimmable Low-Range Driver - 120-277V, 350 mA (MDL05)

Coon Rapids Street Lighting 100W HPS, 175W MV LED Equivalent



Housing: Single piece, die-cast A360 aluminum
Operating Temperature: -40°C to +50°C (-40°F to +122°F)
Mounting: 1.625" - 2.375" (42 - 60 mm) O.D. Tenons
Mounting Methods: Horizontal Entry (2 or 4 bolt) or Post-top Mount (2 bolt)
Weight: < 8 lbs (< 3.6 kg)
EPA Rating: 0.3 ft² (0.028 m²)
Ingress Protection: Power supply and optical assembly are IP66 rated per IEC 60529/ANSI C136.25
 Luminaire is UL listed for wet locations
Finish: Durable polyester powdercoat topcoat
Available Colors: GREY (RAL 7035)



PENDING COMPLIES WITH ANSI C136.37

NOTE: If post-top version is specified, add 5.4" (137 mm) to overall length dimension.

ELECTRICAL	L-016S (16 LEDs)	
Drive Currents (mA)	700 mA	1050 mA
Power Consumption* (W)	39 W	58 W
Input Voltage* (V)	120 - 277V (Standard), 347-480V (Optional)	
Surge Protection	Meets requirements ANSI C-High (10kV/10kA)	
Power Factor	> 0.90	
Receptacle	7-PIN receptacle (ANSI C136.41)	
OPTICS & PERFORMANCE	L-016S (16 LEDs)	
Photometry (Distribution Types)	2ES	
Color Temperature* (CCT)	4000K (Standard) 3000K (Optional)	
Color Rendering Index* (CRI)	70	
Drive Currents (mA)	700 mA	1050 mA
Fixture Efficacy* (Lm/W)	110 Lm/W	101 Lm/W
Fixture Output* (Lm)	4,250 Lm	5,900 Lm
LED L70 (Hours)	> 100,000 hours @ maximum drive current	
PHOTOCELL & CONTROLS	L-016S (16 LEDs)	
Photocell Options	20-year life photocell available. Photocells and shorting caps sold separately.	
Controls & Monitoring	Dimming power supply (1-10V) is standard equipment. DALI option is available with 700mA driver (120-277V) only. LRL offers a complete range of control and monitoring solutions	
Shielding	House-side shield option available (see Ordering Guide)	

* NOTES: VALUES SHOWN ARE SUBJECT TO ±5% TOLERANCE COLOR TEMPERATURE SHOWN IS ±500K, BASED ON 4000K CCT AND TYPE 2ES DISTRIBUTION ILLUSTRATED ABOVE: L-016S IN GREY (RAL 7035) ALL INFORMATION PROVIDED IS SUBJECT TO CHANGE WITHOUT NOTICE.

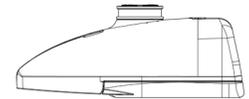




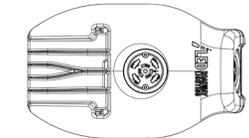
Coon Rapids Street Lighting 150W HPS, 250W MV LED Equivalent

Housing: Single piece, die-cast A360 aluminum
Operating Temperature: -40°C to +50°C (-40°F to +122°F)
Mounting: 1.625" - 2.375" (42 - 60 mm) O.D. Tenons
Mounting Methods: Horizontal Entry (2 or 4 bolt) or Post-top Mount (2 bolt)
Weight: < 8 lbs (< 3.6 kg)
EPA Rating: 0.3 ft² (0.028 m²)
Ingress Protection: Power supply and optical assembly are IP66 rated per IEC 60529/ANSI C136.25
 Luminaire is UL listed for wet locations
Finish: Durable polyester powdercoat topcoat
Available Colors: GREY (RAL 7035)

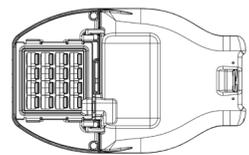
5.3"
(134 mm)



7.9"
(201 mm)



7.9"
(201 mm)



12.9" (327 mm)



PENDING COMPLIES WITH ANSI C136.37

NOTE: If post-top version is specified, add 5.4" (137 mm) to overall length dimension.

ELECTRICAL	L-016S (16 LEDs)	
Drive Currents (mA)	700 mA	1050 mA
Power Consumption* (W)	39 W	58 W
Input Voltage* (V)	120 - 277V (Standard), 347-480V (Optional)	
Surge Protection	Meets requirements ANSI C-High (10kV/10kA)	
Power Factor	> 0.90	
Receptacle	7-PIN receptacle (ANSI C136.41)	
OPTICS & PERFORMANCE	L-016S (16 LEDs)	
Photometry (Distribution Types)	2ES	
Color Temperature* (CCT)	4000K (Standard) 3000K (Optional)	
Color Rendering Index* (CRI)	70	
Drive Currents (mA)	700 mA	1050 mA
Fixture Efficacy* (Lm/W)	110 Lm/W	101 Lm/W
Fixture Output* (Lm)	4,250 Lm	5,900 Lm
LED L70 (Hours)	> 100,000 hours @ maximum drive current	
PHOTOCELL & CONTROLS	L-016S (16 LEDs)	
Photocell Options	20-year life photocell available. Photocells and shorting caps sold separately.	
Controls & Monitoring	Dimming power supply (1-10V) is standard equipment. DALI option is available with 700mA driver (120-277V) only. LRL offers a complete range of control and monitoring solutions	
Shielding	House-side shield option available (see Ordering Guide)	

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115 Chain Lake Drive, Halifax, Nova Scotia, B3S 1B3 Canada
 Toll-Free Phone: +1 (877) 533.5755 Toll-Free Fax: +1 (888) 533.5755 info@ledroadwaylighting.com www.ledroadwaylighting.com

Coon Rapids Street Lighting

200W HPS, 250W HPS

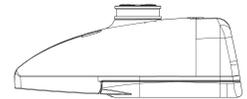
400W MV

LED Equivalent

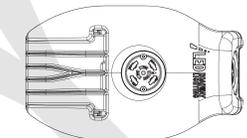


Housing: Single piece, die-cast A360 aluminum
Operating Temperature: -40°C to +40°C (-40°F to +104°F)
Mounting: 1.625" - 2.375" (42 - 60 mm) O.D. Tenons
Mounting Methods: Horizontal Entry (2 or 4 bolt) or Post-top Mount (2 bolt)
Weight: 15 lbs (6.8 kg)
EPA Rating: < 0.3 ft² (< 0.028 m²)
Ingress Protection: Power supply and optical assembly are IP66 rated per IEC 60529/ANSI C136.25
 Luminaire is rated for wet locations
Finish: Durable polyester powdercoat topcoat
Available Colors: GREY (RAL 7035)

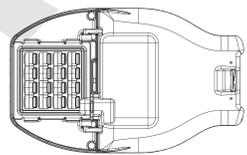
5.3"
(134 mm)



11.1"
(281 mm)



11.1"
(281 mm)



22.2" (563 mm)



PENDING

COMPLIES WITH ANSI C136.37

NOTE: If post-top version is specified, add 5.4" (137 mm) to overall length dimension.

ELECTRICAL	MEDIUM BODY (40 LEDs)			MEDIUM BODY (55 LEDs)	
Drive Currents (mA)	700 mA	850 mA	1050 mA	850 mA	1050 mA
Power Consumption* (W)	95 W	115 W	140 W	155 W	180 W
Input Voltage* (V)	120 - 277V (Standard), 347 - 480V (Optional)				
Surge Protection	Meets ANSI C136.2-2015 Extreme Electrical Transient Immunity Requirements (20kV/10kA)				
Power Factor	> 0.90				
Receptacle	7-PIN receptacle (ANSI C136.41)				
OPTICS & PERFORMANCE	MEDIUM BODY (40 LEDs)			MEDIUM BODY (55 LEDs)	
Photometry (Distribution Types)	2ES				
Color Temperature* (CCT)	4000K (Standard) 3000K (Optional)				
Color Rendering Index* (CRI)	70				
Drive Currents (mA)	700 mA	850 mA	1050 mA	850 mA	1050 mA
Fixture Efficacy* (Lm/W)	108 Lm/W	105 Lm/W	100 Lm/W	105 Lm/W	100 Lm/W
Fixture Output* (Lm)	10,000 Lm	12,000 Lm	14,000 Lm	16,000 Lm	18,000 Lm
LED L70 (Hours)	> 100,000 hours @ maximum drive current				
PHOTOCELL & CONTROLS	MEDIUM BODY (40 LEDs)			MEDIUM BODY (55 LEDs)	
Photocell Options	20-year life photocell available. Photocells and shorting caps sold separately.				
Controls & Monitoring	Dimming power supply (1-10V) is standard equipment. DALI option is available (120-277V). LRL offers a complete range of control and monitoring solutions				
Shielding	House-side shield option available (See Ordering Guide)				

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City Council Work Session

2.

Meeting Date: 08/03/2016

Subject: Discuss Options for Exterior Signage at Sand Creek Park

Submitted For: Tim Himmer, Public Works Director

From: Sarah Greene, Administrative Assistant II

INTRODUCTION

With the Sand Creek Park site improvements nearing completion, the City Council is being asked to discuss site signage options.

DISCUSSION

With the approval of the Sand Creek Park site improvements, an electronic reader board was included in the design at a cost of approximately \$35,000. That sign was to be located near the center of the park, along Northdale Blvd, at the approximate location of the previous access road (see attached map). During construction poor soils were encountered at the south end of the site and the reader board was considered for removal from the project for cost savings. The proposed reader board is similar to what currently exists at Lions Coon Creek Park and the Recycling Center so the redundancy and need for another such sign was also questioned, making it easier to potentially eliminate it. It was staff's intent to review the signage for the park near completion of the project, and to focus more on a monument type of design at the main entrance.

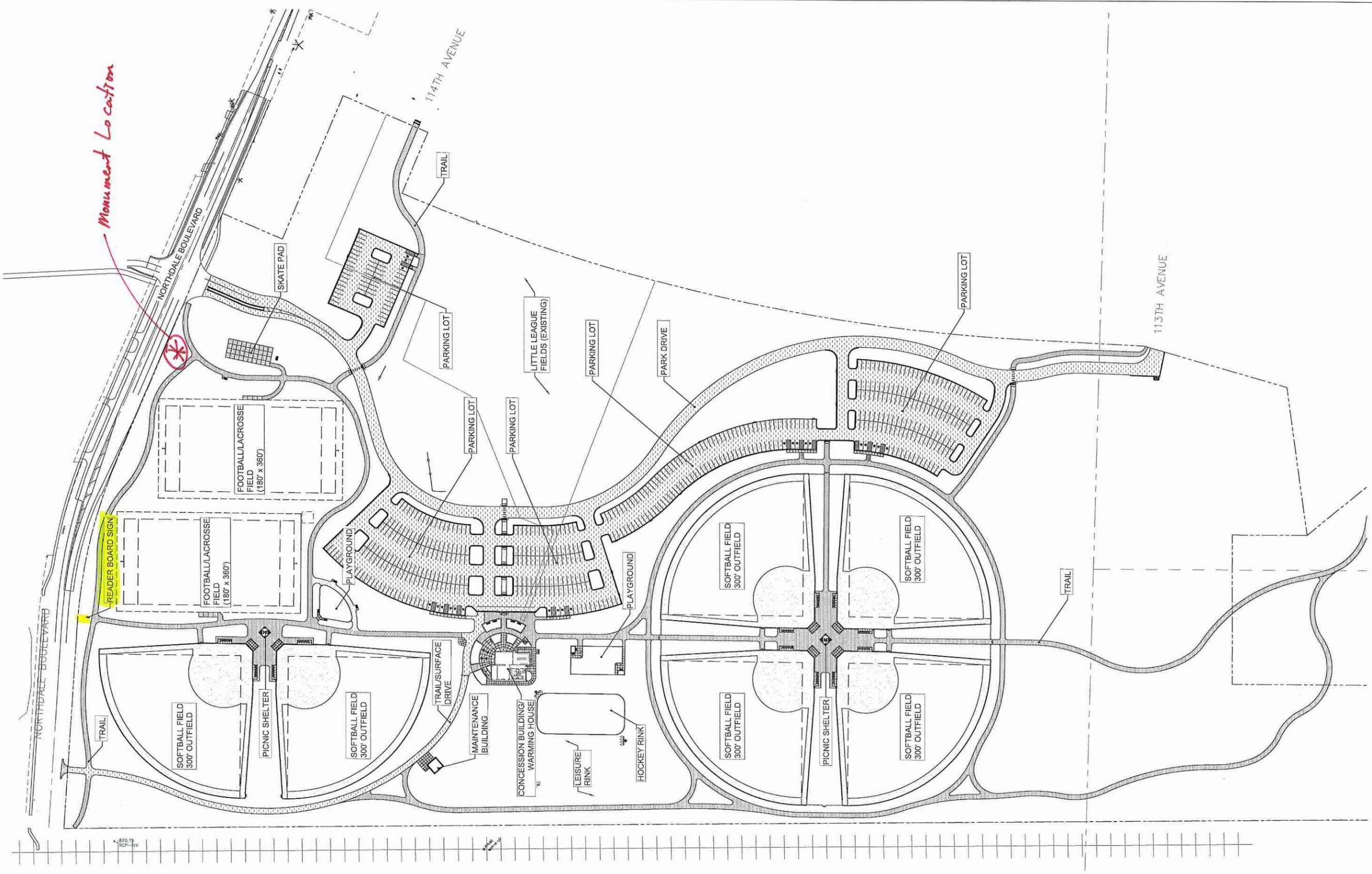
Attached to this memo are several conceptual designs that were developed by City staff and a local sign company. Council is asked to review the options and provide direction to staff on how they would like to see signage incorporated into the park design. Once a concept is selected staff can then work with vendors on material options (to match the site architecture) and estimated costs. It is important that decisions are made soon so the work can be completed this fall and be ready for the spring 2017 opening of the facility.

RECOMMENDATION

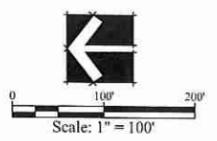
This item is solely for informational and discussion purposes.

Attachments

- Location Map
 - Staff Designs
 - Demars Design
-



1
L3.0 OVERALL LAYOUT PLAN
 Scale: 1" = 200'-0"



ILLUSTRATED BY: DATE: MARCH 13, 2015 L.C. NO.: 44337	AS NOTED DRAWN BY: BS CHECKED BY: 01431-420 RECORD COPY BY: DATE: 03-13-2015	LOCATION: PROJECT NO.: DATE:
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Sand Creek Park
City of Coon Rapids, MN
Overall Layout Plan

701 Xenia Avenue South, Suite 300
 Minneapolis, MN 55416
 Tel: (763) 541-8901 • Fax: (763) 541-1700
 wsbeng.com
 engineering • planning • environmental • construction

**SAND
CREEK
PARK**



1008 NORTHDAL BLVD. NW

**SAND
CREEK
PARK**



1008 NORTHDALÉ BLVD. NW



**SAND CREEK
PARK**

1008
NORTHDALE
BLVD. NW



**SAND
CREEK
PARK**



1008 Northdale Blvd. NW



**SAND CREEK
PARK**

1008 Northdale Blvd. NW



SAND CREEK PARK



1008 NORTHDALÉ BLVD. NW



SAND CREEK PARK



1008 Northdale Blvd. NW

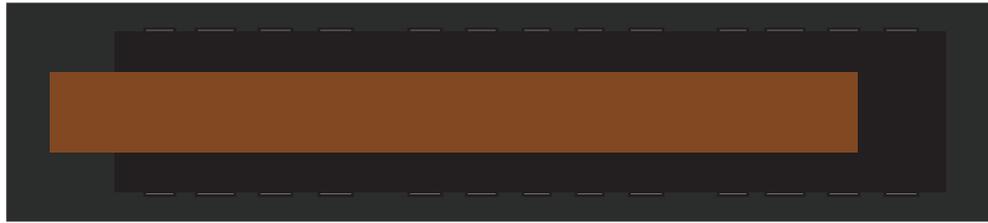


SAND
CREEK
PARK

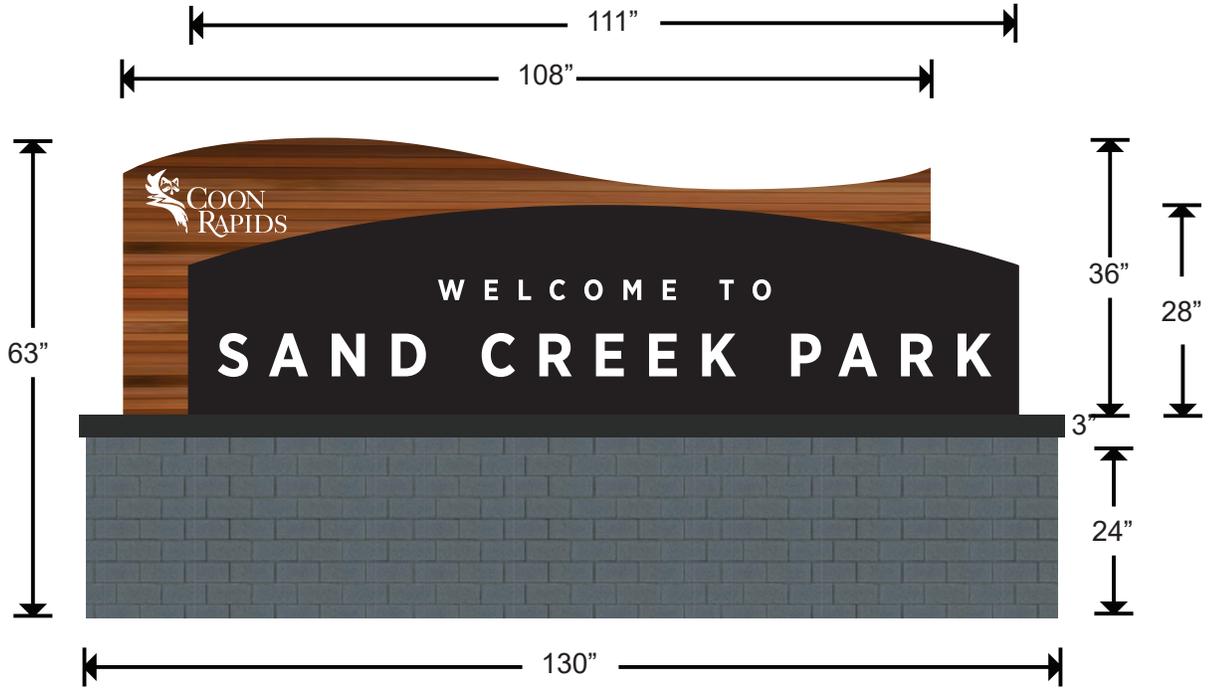
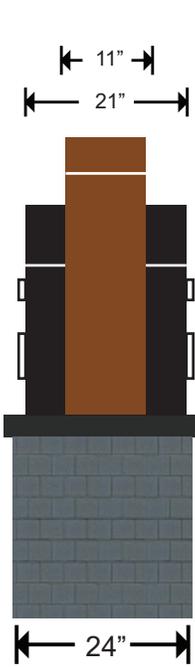


1008 NORTHDAL BLVD. NW

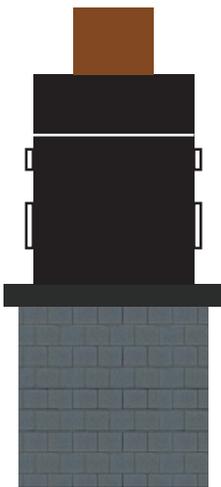
TOP VIEW



SIDE VIEW



SIDE VIEW



• PUSH THRU LETTERS • SIGN CONSTRUCTION TO MATCH MATERIALS USED FOR WARMING HOUSE



410 93rd Ave.^{NW}
Coon Rapids, MN 55433
763.786.5545

DATE: 7.13.16
SALESMAN: Tim Olson
LOCATION: Coon Rapids
NOTES: _____

These plans are the exclusive property of DeMars Signs Inc. and are the result of the original work of its employees. They are submitted to your firm for the sole purpose of your approval, assuming the signage will be manufactured by DeMars Signs Inc. Artwork and design may not be distributed outside your firm without written consent from DeMars Signs Inc. Use of this artwork and/or design without written consent is prohibited; DeMars Signs Inc. reserves the right to pursue legal action in violation of this agreement. This may include, but is not limited to: a) Reimbursement for creating above drawing. b) Any associated legal fees.

CUSTOMER APPROVAL X

* ISO view not to scale



410 93rd Ave.^{NW}
Coon Rapids, MN 55433
763.786.5545

DATE: 7.13.16

SALESMAN: Tim Olson

LOCATION: Coon Rapids

NOTES: _____

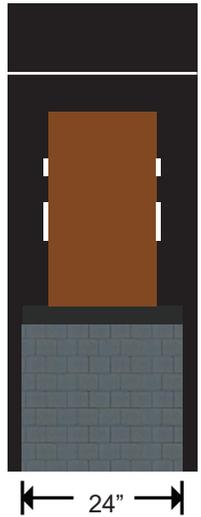
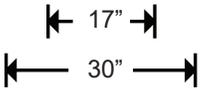
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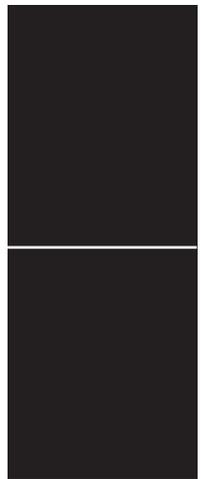
TOP VIEW



SIDE VIEW



SIDE VIEW



• PUSH THRU LETTERS • SIGN CONSTRUCTION TO MATCH MATERIALS USED FOR WARMING HOUSE



410 93rd Ave.^{NW}
Coon Rapids, MN 55433
763.786.5545

DATE: 7.13.16
SALESMAN: Tim Olson
LOCATION: Coon Rapids
NOTES: _____

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WELCOME TO
SAND CREEK PARK



410 93rd Ave.^{NW}
 Coon Rapids, MN 55433
763.786.5545

DATE: 7.13.16
SALESMAN: Tim Olson
LOCATION: Coon Rapids
NOTES: _____

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