



CITY OF TONKA BAY
 4901 Manitou Road
 Tonka Bay MN 55331
 952-474-7994
www.cityoftonkabay.net

**SIGN PERMIT
 APPLICATION**

Date: 12.10.15

Name of Applicant: Tonka Village, LLC

Address: 5609-5663 Manitou Rd

Phone: Business: 952.931.9538 Home: _____

LOCATION OF WALL SIGN OR GROUND SIGN:

1. Address 5611 Manitou Rd
2. Name of Business Tonka Village Shopping Center
3. Location on Property (Ground) _____
4. Location on Building (Wall) Southwest corner of building on existing pier
5. Verbiage on Sign (Include drawing) Digital message board, customizable messages

PERMANENT **TEMPORARY** _____

If temporary, a maximum of ten consecutive days is allowed.
 Dates sign will be in place: From _____ to _____

SIGN OR BILLBOARD DESCRIPTION:

Size: 98.70 sq. st.
 Width: 5"
 Length: 17'-2"
 Height: 5'-9' (if on supports or posts, total height from ground)

Colors:

Background: Varies/Custom
 Lettering: Varies/Custom
 Other: _____

Materials (constructed of wood, plastic?): Metal cabinet, internal electronic components

Lighting:

Will sign be lit? Yes
 Type of light (constant, flashing, neon, fluorescent) Constant LED pixel resolution

Will location of sign create traffic hazards or obstruct views? No

FOR GROUND SIGNS:		
Are the following aesthetics being met?	YES	NO
Constructed of wood, stone, brick		
Stained or varnished		
Not to exceed ten feet in height		
Not to exceed 24 square feet of surface area		
Contains information for identification or directional purposes only		
Lighting directed away or shaded from all adjacent property		



Signature of Applicant

OFFICE USE ONLY	
PAYMENT MADE (\$75)	12-10-15
PERMIT APPROVED	
NOT APPROVED	
COUNCIL MEETING DATE	

CK# 6835

Effective 1/1/15

FORMS/PERMITS/SIGN PERMIT APP

C. Survey Requirements:

INITIAL SURVEY

Every application for building permit (excluding interior remodels, re-roofs, re-siding and general maintenance) and land use request shall be accompanied by a certified survey at a scale and in the following quantities:

Building Permits:

- Three sets of a current registered land survey
- Three sets building plans

Land Use Requests (Pre-application, Variance, Conditional Use Permit):

- Eleven copies of a current registered land survey showing existing use (11 x 17)
- Eleven copies of a registered land survey showing proposed use (11 x 17)
- Eleven sets of building plans (11 x 17)

Surveys should include but not be limited to:

- Existing and proposed structures to include accessory structures and air conditioning units
- Building setbacks (front, rear, side, and lake including average setback)
- Existing average ground level at the corners of the proposed structure. This also needs to be calculated out on the survey notes.
- Lowest floor elevation.
- Current and proposed elevations for garage floor, basement floor and foundation top.
- Wetlands and ordinary high water mark elevations.
- Lot lines.
- Lot area above the ordinary high water mark
- All adjacent structures within 100 feet of property (show the setback from ordinary high water mark).
- Drainage plan (one-foot contours).
- Hardcover calculations.
- Easements (road, utility and private).
- Floor area ratio.

FOUNDATION SURVEY

As-built foundation survey required prior to completing a foundation inspection (unless waived in accordance with the City's survey exemption policy) and shall include:

- Shall certify final setbacks of the structure being built
- Shall certify elevations at which the new structure exists.
- Failure to provide the foundation survey is in direct violation of this ordinance
- Expenditures incurred beyond the construction of the foundation will not be considered in determining the actions required to bring the building back into conformance if not built to approved plans.

AS-BUILT SURVEY

Required upon completion of new construction work (unless waived in accordance with the City's survey exemption policy) and shall include the following:

- Shall certify the final topography of the site.
- Shall verify the drainage patterns existing upon completion of work
- Shall include the distance from average ground level to the highest roof peak.
- Shall include any additional information needed by the city to ensure compliance with code.

The city reserves the right to withhold the certificate of occupancy for dwelling units until final grading addresses all problems that may be detrimental to adjacent properties.

D. The applicant or representative thereof shall appear before the City Council to answer questions concerning the proposed conditional use permit. See attached public hearing information sheet.

Submit with Application:

1. Eleven (11) to scale copies and Eleven (11) reduced (8-1/2" x 11" or 11" x 17") copies of a certified survey of the property. The survey shall include all information necessary to enforce applicable zoning regulations. Such information may include but is not limited to:
 - Location and Floor Area of existing and proposed structures
 - Lot Lines
 - Parcel size in acres and square feet
 - Building setbacks (closest point of building to each property line)
 - Low floor elevations of existing and proposed structures
 - Water features (lakeshore, wetlands, etc.)
 - Existing and proposed topography – including ground elevations at corners of existing and proposed structures.
 - General location of vegetation
 - Location of structures on adjacent lots
 - Easements
 - Existing and proposed impervious surface calculations.
 - Location of public and private sewer lines or wells.
2. Hardcover calculation – current and proposed
3. Floor area ratio – current and proposed
4. Landscape plan and grading and drainage plan (current and proposed)
5. Payment

Additional Information

- A. The request for variances shall be placed on the agenda of the first City Council meeting occurring at least thirty (30) days from the date of official submission unless waived by the Zoning Administrator. Upon receipt of a completed application, the Zoning Administrator shall set a public hearing for a regular meeting of the City Council. The City Council shall conduct the hearing.
- B. Notice of said hearing shall be published in the official newspaper at least ten (10) days prior to the hearing and written notification of said hearing shall be mailed at least ten (10) days prior to all property owners within three hundred fifty (350) feet of the boundary of the property in question.

- C. For properties within the Shoreland, Floodway or Flood Fringe Overlay District, the City will submit to the Commissioner of Natural Resources a copy of the application for proposed variances so that the Commissioner will receive at least ten (10) days notice of the hearing.
- D. The applicant or representative thereof shall appear before the City Council to answer questions concerning the proposed variance.
- E. A variance of the Ordinance shall be by four-fifths (4/5) vote of the entire City Council.
- F. If approved, the variance shall become null and void twelve (12) months after the date of approval, unless the property owner or applicant has substantially started the construction of any building, structure, addition or alteration, or use requested as part of the permit.
- G. Prior to approving an application for a variance, the City shall verify ownership, and that there are no delinquent property taxes, special assessments, interest, or City utility fees due upon the parcel of land to which the permit application relates.
- H. By state statute, there are three definitive criteria that all variances must address. The three criteria are as follows:
 1. Is the variance request reasonable? The hardship requirement does not mean that a property owner must show the land cannot be put to any reasonable use without the variance. Rather, the property owners must show that they would like to use their property in a reasonable manner that is prohibited by the ordinance.
 2. Does the application present unique circumstances?
 3. If approved, would the variance alter the essential character of the locality?

1004.02 GENERAL PROVISIONS AND STANDARDS

Subd. 3. Review Criteria. In considering all requests for a variance and in taking subsequent action, the City Council shall make a finding of fact that the proposed action will not:

- a. Impair an adequate supply of light and air to adjacent property.
- b. Unreasonably increase the congestion in the public street.
- c. Increase the danger of fire or endanger the public safety.
- d. Unreasonably diminish or impair established property values within the neighborhood, or in any way be contrary to the intent of this Ordinance.
- e. Violate the intent and purpose of the Comprehensive Plan.
- f. Violate any of the terms or conditions of Subd. 4., below.

Subd. 4. Conditions. A variance from the terms of this Ordinance shall not be granted unless it can be demonstrated that:

- a. Undue hardship will result if the variance is denied due to the existence of special conditions and circumstances which are peculiar to the land, structure, or building involved and which are not applicable to other lands, structures or buildings in the same district.
 1. Special conditions may include exceptional topographic or water conditions or, in the case of an existing lot or parcel of record, narrowness, shallowness, insufficient area or shape of the property.
 2. Undue hardship caused by the special conditions and circumstances may not be solely economic in nature, if a reasonable use of the property exists under the terms of this Chapter.
- b. Literal interpretation of the provisions of this Ordinance would deprive the applicant of

rights commonly enjoyed by other properties in the same district under the terms of this Ordinance or deny the applicant the ability to put the property in question to a reasonable use.

- c. The special conditions and circumstances causing the undue hardship do not result from the actions of the applicant.
- d. Granting the variance requested will not confer on the applicant any special privilege that is denied by this Ordinance to other lands, structures or buildings in the same district under the same conditions.



 Signature of Applicant

 *J.S.*

 Signature of Property Owner

 Signature of Applicant

 Signature of Property Owner

CHK# 6837

This Section Completed by Staff			
FEE	FOR	DATE PAID	STAFF INITIALS
\$150.00	Application Fee	<i>12/10/15</i>	<i>CS</i>
\$1,150.00	Escrow Fee*	<i>12/10/15</i>	<i>CS</i>

ANDERSON PROPERTY MANAGEMENT

6205 Parkwood Road, Edina, MN 55436

Office (952) 931-9538

Fax: (952) 945-0074

email: peter@andersonpropmgmt.com

TO: CITY OF TONKA BAY

RE: TONKA VILLAGE DIGITAL MESSAGE READER BOARD

City Council Members,

Tonka Village, LLC is pleased to submit an application for a sign variance located at the Tonka Village shopping center on Manitou Road.

I have included the following informational documents for your review:

-Product material spec sheet for the stone that will be installed on the Pier, plywood encloses the pier underneath the stone work

-Images reflecting how far the sign will protrude from the wall, dimensions and area of the pier

-A site map with traffic sign location in the immediate area

-15.85 technical specifications for the customizable message reader board (we are able to customize the messages displayed on the board)

-Correspondence from the sign manufacturer in the event a malfunction were to happen

I would like City Council members to reconsider one design standard found in section 330.07, Subd 2.f specific to electronic changeable copy signs.

“An electronic Changeable Copy Sign may not change or move more often than one time per hour, except one for which changes are necessary to correct hour-and-minute, date, or temperature information”.

Tonka Village, LLC would like to receive optimal use from the message board for all tenants located at the center. We would like to request the Changeable Copy to move every 60 seconds to help promote our retail tenants to visitors.

I want to thank you for your time and consideration with this application.

Kind Regards,

Peter Knudsvig

Boulder CREEK® Stone Products

10-Part Spec

1. Product Name

Boulder Creek® Stone, Thin Brick and Accessories

2. Manufacturer

Boulder Creek® Stone
8282 Arthur Street
Minneapolis, MN 55432
(800) 762-5902
(763) 786-7276
Fax: (763) 786-7276

info@bouldercreekstone.com
(E-Mail)
www.bouldercreekstone.com
www.bouldercreekarchitect.com

3. Product Description

BASIC USE

Stone:

Boulder Creek® Stone offers a full line of cost effective manufactured stone in a variety of designs, textures, and colors. Crafted of all natural materials to replicate the appearance and feel of natural stone, this manufactured stone is lightweight, yet durable to withstand harsh weather conditions. It can be installed onto interior and exterior wall surfaces without requiring extra foundational support and is ideal for all systems, fireplaces, entries, retaining walls, and other applications where natural stone may be too heavy or costly.

Thin Brick:

Boulder Creek® Stone manufactures maintenance-free thin brick to complement both exterior and interior applications.



They range from ½" (12.7 mm) to 1" (25.4 mm) and mirror the classic look and feel of traditional full size bricks. Thin Brick is lightweight and requires no special brick ledges or ties for installation. They are cost-effective and can be used where fill brick cannot be installed.

COMPOSITION & MATERIALS

Boulder Creek® Stone products are manufactured simulated stone and brick products, engineered using all natural materials to achieve the strength, texture and weather resistant characteristics of natural stone and full-size bricks.

SIZES

Sizes, shapes and textures vary according to pattern selection. Manufactured stone products have random, varying sizes, shapes and textures with the appearance of natural stone.

TYPES, COLORS

STONE

Boulder Creek® Stone products are produced in flat (field) pieces and 90 degree outside corner pieces.

- **Bavarian Castle** - Antique Buff, Liverpool, Norwich, Nottingham, Westwood, York Gray
- **Bluff Stone** - Easton, Outback, Seneca, Sunset
- **Cliffstone** - Apache, Bradford, Montour, Sheridan
- **Country Ledge** - Brown, Fossil Beige, Glacier Buff, Loveland, Vancouver, West Chester
- **Eastern Fieldstone** - Burnt Hollow, Englewood, Hampton, Stonehill, Tishbury, Walden
- **Fast Stak™** - Ancona, Black Onyx, Cashmere, Cheyenne Ridge, Gunflint Gray, Jaffa Beige, Mirage Gray, Nema, Russet Brown, Sable, Velarde

10-Part Spec

- Italian Fieldstone - Bergamo, Tivoli, Toscana, Venice
- Long Island Stak™ - Alden, Aurora, Hempstead, Manhattan, Niagara, Woodridge
- Montana Ledge - Chesapeake, Cameron, Jasper, Leather Brown, Pendleton, Rocky Mountain, Ronan, Suede Gray
- Mountain Blend - Athena, Barton, Comforts of Home
- Nuggets - Superior
- Ohio Rubble - Hudson Bay, Monroe, Oklahoma Crème, Prairie Mountain, St. Claire, Smokey Hollow, Stonehenge
- Pebblestone - River Bed
- Prairie Buff - Chandler, Laner, Mesquite, Mojave, Navajo, Newbury, Prescott, Red Mountain, Winslow, Verena, Yuma
- River Rock - Comfort Blend, Desert Rust, Northern Blend, Minnesota Blend, Mission, Natures Blend
- Sangria - Castano, Pueblo, Saddle, Tolono
- Southeastern Ledge Stone - Barrington, Butternut, Cajun, Crimson Mountain, Quincy, Tenor, Wilmington
- Splitface - Buckeye Blend, Great Lakes, Mansfield, Michigan, Westin Willows, Willows
- Venetian Cobble - Biella, Florence, Genoa, Milan, Molise, Napoli, Salerno
- Weathered Edge - Bristol, Fon-Du-Lac, Kodiak, Portage, Sun Prairie, Trenton

- Western Ledge Stak™ - Appaloosa, Belgian, Burnt Hollow, Lasino, Moroccan, Mustang

THIN BRICK

- Clinker Brick - Red
- Estate - Shelby
- New Brick - Chicago Blend, Dover, Red Colonial, Sienna Blend
- Stonebrick - Beringer, Ferrara, Linden
- Travertine - Crane, Elmwood, Mesa, Pima
- Used Brick - Buff, Chicago Used, Essex, Lexington, Old World, Talbot

ACCESSORIES

Boulder Creek® Stone has a full line of accessories to add architectural detail and accents to manufactured stone and thin brick projects.

- Standard Hearthstones
- Large Hearthstones 16", 20"
- Chisel Face Sills
- Large Flat Sill
- Heavy Duty Sill
- Castle Accents 6x6, 6x10
- Base Piece
- Keystone - Chisel Face – Small, Large
- Octagon Light Trim
- Rectangle Light Trim
- Outlet Trim
- Keystone - Sand Finish – Small, Large
- Post Cap Flat - 16", 18", 20", 24", 32"

- Post Cap - Peaked – Small, Large
- Wall Cap - Peaked - 12x20, 12x24, 16x20, 16x24,
- Wall Cap - Flat - 12x20, 12x24, 16x20, 16x24

BENEFITS

- Manufactured Stone and Thin Brick are durable, lightweight and attractive alternatives to natural stone and full-size brick.
- Products mirror the look and feel of natural stone and brick without inherent cost
- Consistent sizes and edges simplify installation
- Can be installed on interior or exterior walls without the need for extra foundational or structural support
- Large selection of styles, colors and accessories make it easy to create or match a particular design or ambience

LIMITATIONS

Boulder Creek® Stone products should be installed at least 4" (101 mm) above grade or 2" (50 mm) above hard surface.

It is important to follow all manufacturer installation instructions and local codes to ensure and maintain proper weather resistance and durability.

Installations where salt and/or chemical contact may occur could lead to the need for sealer or other protection. Acid must not be used on Boulder Creek® products in any circumstance.



10-Part Spec

4. Technical Data

APPLICABLE STANDARDS

- AC38 — ICC-ES Acceptance Criteria for Water Resistive Barriers
- AC51 — ICC-ES Acceptance Criteria for Pre-Cast Stone Veneer
- AC191 — ICC-ES Acceptance Criteria for Metal Plaster Bases (Lath)
- AC275 — ICC-ES Acceptance Criteria for Glass Fiber Lath used in Cementitious Exterior Wall Coating or Exterior Cement Plaster (Stucco)
- ANSI Accredited Evaluation Service
- International Code Council — Evaluation Service (ICC-ES)
- International Building Code (IBC)
- International Residential Code (IRC)
- ANSI — American National Standards Institute
- ANSI A118.1 — American National Standards Institute Specifications for Dry-Set Portland Cement Mortar
- ANSI A118.4 — American National Standards Institute Specifications for Modified Dry-Set Cement Mortars
- ANSI A118.15 — American National Standards Institute Specifications for Improved Modified Dry-Set Cement Mortar
- TMS 402 — Building Code

Requirements for Masonry Structures (TMS 402/ACI 530/ASCE 5).

- TMS 602 — Specification for Masonry Structures (TMS 602/ACI 530.1/ASCE 6)
- Foam Sheathing Committee of the American Chemistry Council, Guide to Attaching Exterior Wall Coverings Through Form Sheathing to Wood or Steel Wall Framing
- ICRI — International Concrete Repair Institute
- ASTM International
- ASTM C270 — Standard Specification for Mortar for Unit Masonry
- ASTM C482 — Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste
- ASTM C847 — Standard Specification for Metal Lath
- ASTM C932 — Standard Specification for Surface Applied Bonding Compounds for Exterior Plastering
- ASTM C933 — Standard Specification for Welded Wire Lath
- ASTM C979/C979M — Standard Specification for Pigments for Integrally Colored Concrete
- ASTM C1032 — Standard Specification for Woven Wire Plaster Base

- ASTM C1059/C1059M – Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete
- ASTM C1063 — Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement Based Plaster
- ASTM C1325 — Standard Specification for Non-Asbestos Fiber-Mat Reinforced Cementitious Backer Units
- ASTM C1384 – Standard Specification for Admixtures for Masonry Mortars
- ASTM C1670 – Standard Specification for Adhered Manufactured Stone Masonry Veneer Units
- ASTM C1714/C1714M – Standard Specification for Preblended Dry Mortar Mix for Unit Masonry
- ASTM C1780 – Standard Practice for Installation Methods for Adhered Manufactured Stone Masonry Veneer
- ASTM E2556/E2556M — Standard Specification for Vapor Permeance Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment
- ASTM D226/D226M — Standard Specification for Asphalt Saturated Organic Felt Used in Roofing and Water Proofing

PHYSICAL/CHEMICAL PROPERTIES

See Table 1.

TABLE 1 - PHYSICAL AND TECHNICAL PROPERTIES			
Test	Brick Veneer	Stone Veneer	AC51 Requirements
Density, pcf	90.04	90.04	N/A
Freeze/thaw, (loss) %	0.9	0.9	3 max.
Compressive strength, psi	5710	5710	1800
Flexural strength, psi	663	663	N/A
Tensile strength, psi	319.9	319.9	N/A
Shear bond with scratch coat, psi	55.3	55.3	50
Conductivity, Btu x in/(h x ft ² x °F)	1.987	1.987	N/A
Conductance, Btu/(h x ft ² x °F)	1.159	1.159	N/A
Resistivity, °F x ft ² x h/btu/in	0.505	0.505	N/A
Resistance, °F x ft ² x h/btu	0.865	0.865	N/A
Flamespread Index	0	0	N/A
Absorption	17.2%	17.2%	N/A

10-Part Spec

5. Installation

Boulder Creek® Stone may be applied over various substrates including wood framing, metal framing, open stud framing, concrete block, poured concrete and tilt-up wall panels. For complete procedures, consult www.bouldercreekstone.com or www.bouldercreekarchitect.com.

PREPARATORY WORK

Deliver and store the product protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer. Store the product off-ground on material that will not stain the brick or stone. If long-term storage is required, cover the product with polyethylene or another nonstaining waterproof material.

Installations in extreme weather conditions should reference ACI 530.1, Section 1.8 for materials and jobsite environmental conditions guidelines.

METHOD

Preparing the surface:
Apply water resistive barrier to exterior surfaces from the bottom up and a metal lath to interior and exterior surfaces. Hand the lath horizontally. Overlap the lath 6" (152 mm) on vertical seams and

2" (51 mm) on horizontal seams. Wrap the lath around the corners.

Mixing the Cement:

For the scratch coat, use 1 part Portland cement or Type S to 2.25 parts sand. For mortar, use 1 part Type N cement to 2.25 parts sand. Dry mix the sand and cement in a wheelbarrow or mud box. Continue mixing and add water slowly until the mixture achieves an applesauce-like consistency.

Scratch Coat:

Use masonry trowel to spread an even layer of cement over and into the holes of the wire lath. Scrape off any excess and use a soft bristled brush to lightly roughen the scratch coat. Drying time ranges from 2 – 24 hours.

Applying Stone:

Install corners first, working from the top down or, if working with groutless patterns, work from the bottom up. Apply ½" (12.7 mm) layer of mortar to the back of the stone. Lay it against the wall and work it gently into place. Cut the stone using a power saw with a masonry blade. Be sure to wear safety glasses and a dust mask.

Applying Brick:

Course out the brick using a chalk line. Install every other row, and then fill the adjacent rows. Install corners first, working from the top

down. Apply ½" (12.7 mm) layer of mortar to the back of the brick; lay it against the wall and work it gently into place. Cut the brick using a power saw with masonry blade. Be sure to wear safety glasses and a dust mask.

Applying Grout:

The stone may be grouted on the same day that it is laid. If grouting is to be delayed to the following day, make sure that all joints are left clean of excess mortar and that the surface of the stone is free of any splashed mortar. Use a grout bag for grouting. When grout joints become firm, they should be raked to achieve the desired effect.

BUILDING CODES

Installation must comply with the requirements of all applicable local; and federal code jurisdictions.

6. Availability & Cost

AVAILABILITY

Boulder Creek® Stone products are made in the USA and are available worldwide.

COST

Cost information may be obtained from the manufacturer or any reseller of Boulder Creek® Stone products.

10-Part Spec

7. Warranty

Products manufactured and sold by Boulder Creek® Stone are warranted against defects after completion and final acceptance of work for a period of 50 years. The manufacturer shall furnish, free of charge, new materials and replace materials determined to be defective. This material warranty shall cover only manufacturing defects of the manufactured products and does not extend to or cover damaged resulting from:

- Settlement of the building or other wall movement
- Contact with chemicals, paint or staining
- Discoloration from airborne contaminants, oxidation or fading associated with the normal aging process
- Faulty installation

8. Maintenance

When properly installed Boulder Creek® Products are maintenance free. Should the need arise, it is important to not use acid or acid based products for cleaning.

Installations where salt and/or chemical contact may occur could lead to the need for a sealer or other protection.

9. Technical Services

Detailed information, product literature, test results or questions about usage or installation is available through Boulder Creek® Stone.

10. Filing System

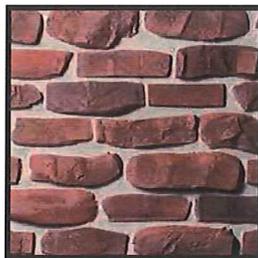
- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.



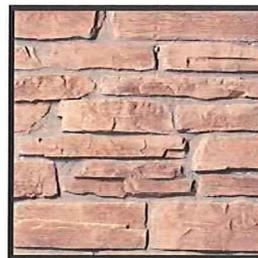
Bavarian Castle



Bluff Stone



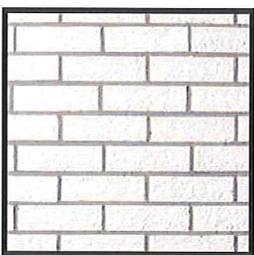
Clinker Brick



Country Ledge



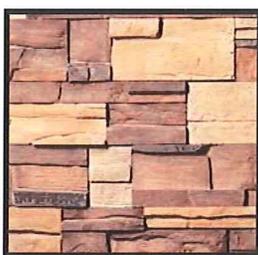
Cliffstone



Estate Brick



Eastern Fieldstone



Fast Stak™



Italian Fieldstone



Long Island Stak™

Boulder CREEK® Stone Products

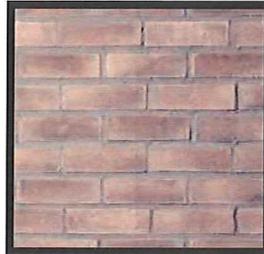
10-Part Spec



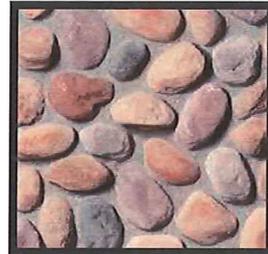
Mountain Blend



Montana Ledge



New Brick



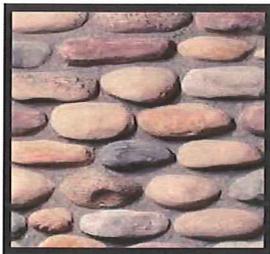
Nuggets



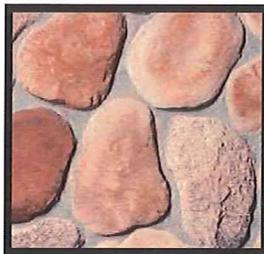
Ohio Rubble



Prairie Bluff



Pebblestone



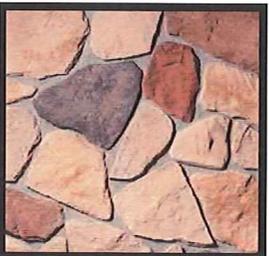
River Rock



Stonebrick



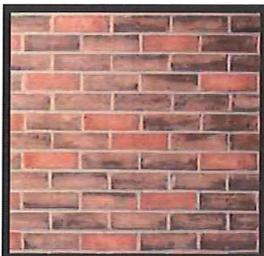
Southeastern
Ledgestone



Splitface



Sangria



Travertine



Used Brick



Venetian Cobble



Weathered Edge



Western Ledge Stak™

**Boulder
CREEK**
STONE PRODUCTS

DESIGNED BY NATURE
PERFECTED BY BOULDER CREEK™

Mfg. of Stone, Thin Brick
and Accessories

800.762.5902 tel 763.786.7276 fax
www.bouldercreekstone.com

2504-07 STONEBRICK KENDALL



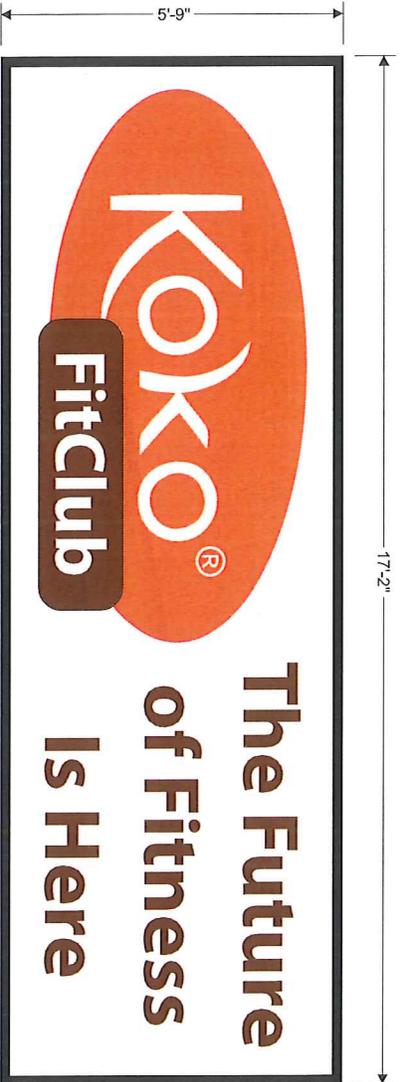
STONE SAMPLE BOARD DOES NOT REFLECT THE COMPLETE RANGE OF COLORS AND SIZES

Variance Sign: Location and Size

Sign Specifications:

Electronic Message Center
 (19MM) Full Color Display
 5'-9" x 17'-2" = 98.70 sq. ft.
 Depth: 5"

Sign Code:
 Maximum Sign Area: 15% of wall area
 Wall Area: 20'-0" W x 16'-6" H =
 330 sq. ft. x 15% =
 49.5 sq. ft. Maximum Sign Area
 Allowable Sign Area: 49.5 sq. ft.
 Proposed Sign Area: 98.70 sq. ft.
 Total Sign Area Over Code: 49.2 sq. ft.

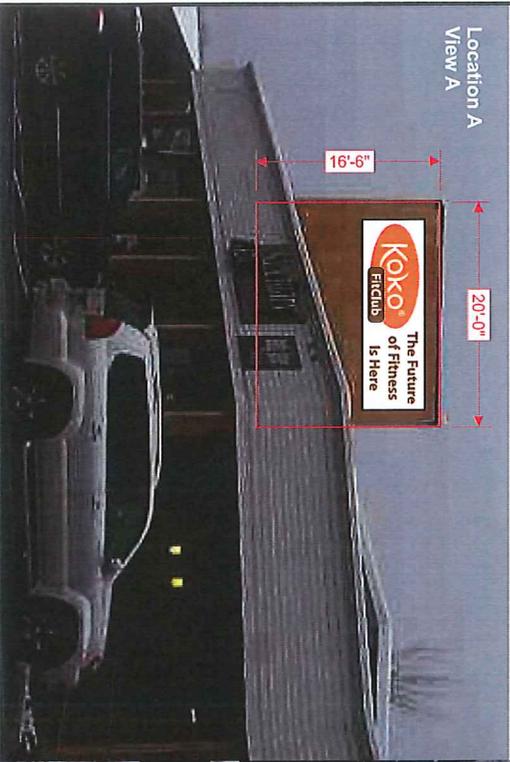


Proposed Message Center Sign
 with Simulated Full Color Message

Sign B
 Sign Area: 98.70 sq. ft.

SCALE: 1/2" = 1'-0"

Location A
 View A



Location A
 View B



Scale: 1/2" = 1'-0" at 11" x 17"

Page: 3 of 3

Designer: Jeff Weispfenning

Customer/
 LL Approval:



SignArt Company

Eau Claire, WI

715-834-5127

800-235-5178

St. Paul, MN

651-688-0563

800-699-0563

www.signartusa.com



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CUSTOMER INFORMATION

Customer: Tonka Bay Village

Address: Tonka Bay, MN

Sales: Bob Sherlock

DRAWING INFORMATION

File Name: Tonka Bay Village
 elevation photo with
 dimensions and sign
 REV G 12-8-15

Date: REV A 10-27-15

Revisions: REV B 11-6-15

REV C 11-10-15

REV D 11-10-15

REV E 11-16-15

REV F 12-2-15

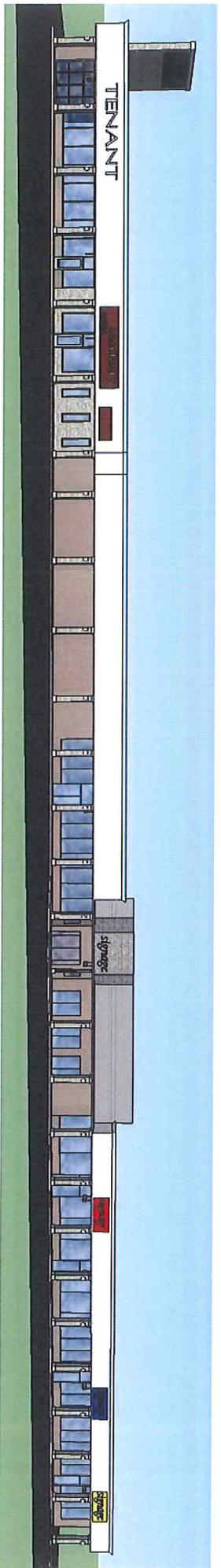
REV G 12-8-15



Tonka Bay Mall
Updated Storefront

tanek
architecture, specialty millwork, virtual reality, project management
118 E. 25th Street, Suite 300 Minneapolis, MN 55404
P:612-267-7222 F:612-267-74152
www.tanek.com

Not to scale
Issued 10.08.15
A-1



Tonka Bay Mall
Updated Storefront

tanek
interior design, architecture, landscape architecture, virtual reality, project management
118 E. 28th Street, Suite 300 Minneapolis, MN 55404
P: 612-873-8223 F: 612-878-8152
www.tanek.com

Not to scale
Issued 10.08.15

A-4



Tonka Bay Mall
Updated Storefront

tanek
architecture, specialty millwork, virtual vision, project management
118 E. 29th Street, Suite 300 Minneapolis, MN 55404
P:612-379-8220 F:612-379-8152
www.tanek.com

Not to scale
Issued 10.08.15

A-5



Tonka Bay Mall
Updated Storefront

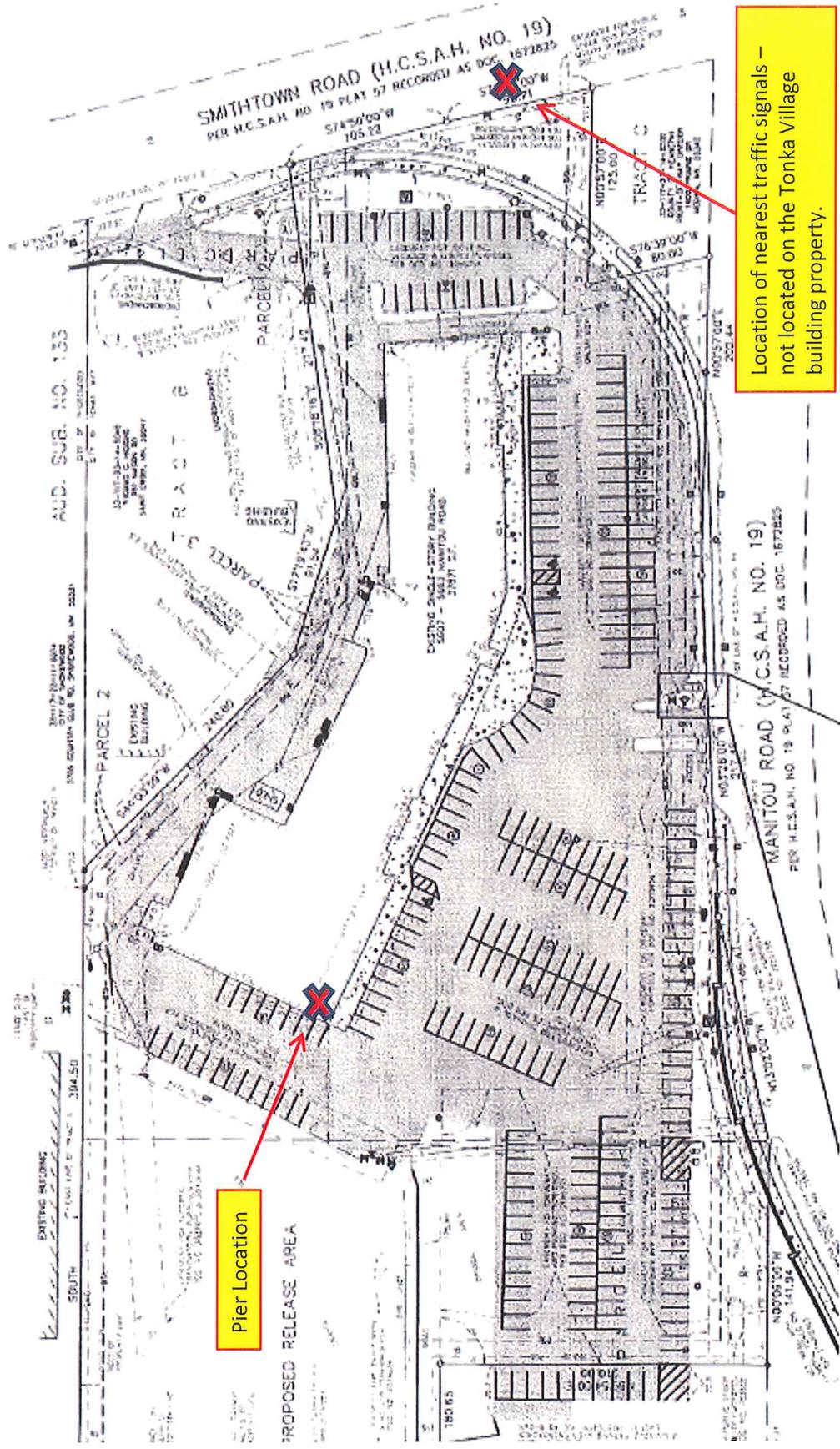
tanek
architecture, strategy, interiors, virtual, vision, project management
118 E. 28th Street, Suite 300 Minneapolis, MN 55404
P: 612-478-2225 F: 612-478-8152
www.tanek.com

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A-6

TONKA VILLAGE SHOPPING CENTER SITE MAP

NOTE: No Traffic Signals on Site



Pier Location

Location of nearest traffic signals – not located on the Tonka Village building property.

GALAXY® GS6 15.85 MM PRODUCT SPECIFICATIONS

The GS6 is the best full-feature, high-quality Galaxy series yet. This product provides users a display that runs outstanding graphics and animations using the best contrast in the industry. The 15.85 mm pixel pitch is the highest resolution 16 mm LED display in the industry.

15.85 MM TECHNICAL SPECIFICATIONS

Character Height:

4.4" (7 pixel font)

Line Spacing:

15.85 mm (0.62")

Pixel Configuration:

Monochrome: 1 red or 1 amber

RGB: 1 red, 1 green, 1 blue

Maximum Brightness:

Monochrome red: 4,500 nits

Monochrome amber: 6,000 nits

RGB: 12,000 nits

Monochrome Color Capability:

4,096 shades of red or amber

Full Color Capability:

RGB: 281 trillion colors

Optimal Viewing Angle:

140 degrees horizontal x 70 degrees vertical

Readability Angle:

160 degrees horizontal x 90 degrees vertical

Min Viewing Distance:

37'

PRODUCT FEATURES

- All sealed components
- Quick connects
- Mounting clips
- High-contrast louvers
- Redundant module signal
- Large sections for fast installation
- Front ventilation on displays less than seven feet tall
- No spreader beam required for displays greater than seven feet tall
- Same module size and cabinet size for all pixel pitches
- Single-step module removal
- Shallow cabinet depth
- Narrow cabinet borders

MODEL NUMBER GUIDE

GS6	-	100	x	250	-	15.85	-	RGB	-	SF
Series		Lines High		Columns Wide		Line Spacing		LED Color Red, Amber, or RGB		Single Face or Two View



GS6 SERIES SPECIFICATIONS

Estimated LED Lifetime:

100,000+ hours

Contrast Enhancement:

Non-reflective black louvers and module face grooves disperse light

Message Capability:

Text, graphics, logos, basic animation, video clips, multiple font styles, and sizes

Control Software:

Venus® Control Suite

Power:

120, 120/240 VAC Single Phase

Display Dimming:

64 levels (Automatic, scheduled or manual control)

Communication Options:

Ethernet Fiber Optic, Ethernet Bridge Radio, Remote Cellular, Ethernet CAT5

Operating Temperature:

-40°F to 120°F with 99% RH non-condensing

Compliance Information:

UL and cUL Listed, UL-Energy Verified, FCC compliance

Warranty Coverage:

5 years

Galaxy Product Support:

Parts support for 10 years

DISPLAY CONFIGURATIONS



Single-face (SF)
Available in all sizes



Two-view (2V)
Available in all sizes

GALAXY® GS6 15.85 MM PRODUCT SPECIFICATIONS

Lines x Columns	Sections/Ventilated	Cabinet Dimensions		Cabinet Square Feet (Square Meters)	Active Area Square Feet (Square Meters)	Cabinet Weight Pounds (kilograms)	Lines/Characters per line	Character Height	Maximum Watts		
		Dimensions Feet-Inches H x W x D	Dimensions Meters H x W x D						Amber	Red	RGB
80x475	Sing/Ft	4'8" x 25'0" x 5"	1.43 x 7.61 x 0.13	116.3 (10.8)	102.8 (9.9)	840 (382)	10/95	4"-49"	2820	2820	4445
80x500	Sing/Ft	4'8" x 26'3" x 5"	1.43 x 8.01 x 0.13	122.3 (11.4)	108.2 (10.4)	885 (402)	10/100	4"-49"	2965	2965	4680
100x100	Sing/Ft	5'9" x 5'6" x 5"	1.74 x 1.67 x 0.13	31.1 (2.9)	27.1 (2.6)	225 (103)	13/20	4"-62"	720	720	1145
100x125	Sing/Ft	5'9" x 6'9" x 5"	1.74 x 2.06 x 0.13	38.5 (3.6)	33.8 (3.2)	280 (128)	13/25	4"-62"	885	885	1420
100x150	Sing/Ft	5'9" x 8'1" x 5"	1.74 x 2.46 x 0.13	45.9 (4.3)	40.6 (3.8)	335 (152)	13/30	4"-62"	1055	1055	1695
100x175	Sing/Ft	5'9" x 9'5" x 5"	1.74 x 2.85 x 0.13	53.3 (5.0)	47.4 (4.5)	385 (175)	13/35	4"-62"	1220	1220	1970
100x200	Sing/Ft	5'9" x 10'8" x 5"	1.74 x 3.25 x 0.13	60.7 (5.6)	54.1 (5.1)	440 (200)	13/40	4"-62"	1385	1385	2245
100x225	Sing/Ft	5'9" x 12'0" x 5"	1.74 x 3.65 x 0.13	68.1 (6.3)	60.9 (5.8)	495 (225)	13/45	4"-62"	1555	1555	2520
100x250	Sing/Ft	5'9" x 13'3" x 5"	1.74 x 4.04 x 0.13	75.5 (7.0)	67.6 (6.4)	545 (248)	13/50	4"-62"	1720	1720	2795
100x275	Sing/Ft	5'9" x 14'7" x 5"	1.74 x 4.44 x 0.13	82.9 (7.7)	74.4 (7.0)	600 (273)	13/55	4"-62"	1890	1890	3065
100x300	Sing/Ft	5'9" x 15'11" x 5"	1.74 x 4.84 x 0.13	90.3 (8.4)	81.2 (7.7)	655 (298)	13/60	4"-62"	2055	2055	3340
100x325	Sing/Ft	5'9" x 17'2" x 5"	1.74 x 5.23 x 0.13	97.8 (9.1)	87.9 (8.3)	705 (320)	13/65	4"-62"	2225	2225	3615
100x350	Sing/Ft	5'9" x 18'6" x 5"	1.74 x 5.63 x 0.13	105.2 (9.8)	94.7 (9.0)	760 (345)	13/70	4"-62"	2390	2390	3890
100x375	Sing/Ft	5'9" x 19'9" x 5"	1.74 x 6.02 x 0.13	112.6 (10.5)	101.4 (9.6)	815 (370)	13/75	4"-62"	2555	2555	4165
100x400	Sing/Ft	5'9" x 21'1" x 5"	1.74 x 6.42 x 0.13	120.0 (11.1)	108.2 (10.2)	865 (393)	13/80	4"-62"	2725	2725	4440
100x425	Sing/Ft	5'9" x 22'5" x 5"	1.74 x 6.82 x 0.13	127.4 (11.8)	115.0 (10.9)	920 (418)	13/85	4"-62"	2890	2890	4715
100x450	Sing/Ft	5'9" x 23'8" x 5"	1.74 x 7.21 x 0.13	134.8 (12.5)	121.7 (11.5)	975 (443)	13/90	4"-62"	3060	3060	4985
100x475	Sing/Ft	5'9" x 25'0" x 5"	1.74 x 7.61 x 0.13	142.2 (13.2)	128.5 (12.2)	1025 (465)	13/95	4"-62"	3225	3225	5260
100x500	Sing/Ft	5'9" x 26'3" x 5"	1.74 x 8.01 x 0.13	149.6 (13.9)	135.2 (12.8)	1080 (490)	13/100	4"-62"	3395	3395	5535
120x100	Sing/Ft	6'9" x 5'6" x 5"	2.06 x 1.67 x 0.13	36.7 (3.4)	32.5 (3.2)	265 (121)	15/20	4"-74"	805	805	1320
120x125	Sing/Ft	6'9" x 6'9" x 5"	2.06 x 2.06 x 0.13	45.5 (4.2)	40.6 (4.0)	330 (150)	15/25	4"-74"	995	995	1635
120x150	Sing/Ft	6'9" x 8'1" x 5"	2.06 x 2.46 x 0.13	54.3 (5.0)	48.7 (4.8)	395 (180)	15/30	4"-74"	1180	1180	1955
120x175	Sing/Ft	6'9" x 9'5" x 5"	2.06 x 2.85 x 0.13	63.0 (5.9)	56.8 (5.6)	455 (207)	15/35	4"-74"	1370	1370	2270
120x200	Sing/Ft	6'9" x 10'8" x 5"	2.06 x 3.25 x 0.13	71.8 (6.7)	64.9 (6.4)	520 (236)	15/40	4"-74"	1560	1560	2585
120x225	Sing/Ft	6'9" x 12'0" x 5"	2.06 x 3.65 x 0.13	80.5 (7.5)	73.1 (7.2)	580 (264)	15/45	4"-74"	1745	1745	2905
120x250	Sing/Ft	6'9" x 13'3" x 5"	2.06 x 4.04 x 0.13	89.3 (8.3)	81.2 (8.0)	645 (293)	15/50	4"-74"	1935	1935	3220
120x275	Sing/Ft	6'9" x 14'7" x 5"	2.06 x 4.44 x 0.13	98.1 (9.1)	89.3 (8.8)	710 (323)	15/55	4"-74"	2125	2125	3540
120x300	Sing/Ft	6'9" x 15'11" x 5"	2.06 x 4.84 x 0.13	106.8 (9.9)	97.4 (9.6)	770 (350)	15/60	4"-74"	2315	2315	3855
120x325	Sing/Ft	6'9" x 17'2" x 5"	2.06 x 5.23 x 0.13	115.6 (10.7)	105.5 (10.4)	835 (379)	15/65	4"-74"	2500	2500	4175
120x350	Sing/Ft	6'9" x 18'6" x 5"	2.06 x 5.63 x 0.13	124.4 (11.6)	113.6 (11.2)	900 (409)	15/70	4"-74"	2690	2690	4490
120x375	Sing/Ft	6'9" x 19'9" x 5"	2.06 x 6.02 x 0.13	133.1 (12.4)	121.7 (12.0)	960 (436)	15/75	4"-74"	2880	2880	4805
120x400	Sing/Ft	6'9" x 21'1" x 5"	2.06 x 6.42 x 0.13	141.9 (13.2)	129.8 (12.8)	1025 (465)	15/80	4"-74"	3065	3065	5125
120x425	Sing/Ft	6'9" x 22'5" x 5"	2.06 x 6.82 x 0.13	150.6 (14.0)	138.0 (13.6)	1085 (493)	15/85	4"-74"	3255	3255	5440
120x450	Sing/Ft	6'9" x 23'8" x 5"	2.06 x 7.21 x 0.13	159.4 (14.8)	146.1 (14.4)	1150 (522)	15/90	4"-74"	3445	3445	5760
120x475	Sing/Ft	6'9" x 25'0" x 5"	2.06 x 7.61 x 0.13	168.2 (15.6)	154.2 (15.2)	1215 (552)	15/95	4"-74"	3635	3635	6075
120x500	Sing/Ft	6'9" x 26'3" x 5"	2.06 x 8.01 x 0.13	176.9 (16.4)	162.3 (16.0)	1275 (579)	15/100	4"-74"	3820	3820	6395
140x100	Sing/Bk	7'10" x 5'9" x 11"	2.38 x 1.74 x 0.28	44.3 (4.1)	37.9 (3.7)	495 (225)	18/20	4"-87"	755	755	1355
140x125	Sing/Bk	7'10" x 7'0" x 11"	2.38 x 2.14 x 0.28	54.5 (5.1)	47.4 (4.6)	605 (275)	18/25	4"-87"	950	950	1700
140x150	Sing/Bk	7'10" x 8'4" x 11"	2.38 x 2.53 x 0.28	64.6 (6.0)	56.8 (5.5)	720 (327)	18/30	4"-87"	1150	1150	2050
140x175	Sing/Bk	7'10" x 9'8" x 11"	2.38 x 2.93 x 0.28	74.7 (7.0)	66.3 (6.4)	830 (377)	18/35	4"-87"	1300	1300	2350
140x200	Sing/Bk	7'10" x 10'11" x 11"	2.38 x 3.33 x 0.28	84.8 (7.9)	75.8 (7.4)	945 (429)	18/40	4"-87"	1500	1500	2700
140x225	Sing/Bk	7'10" x 12'3" x 11"	2.38 x 3.72 x 0.28	94.9 (8.9)	85.2 (8.3)	1055 (479)	18/45	4"-87"	1695	1695	3045
140x250	Sing/Bk	7'10" x 13'6" x 11"	2.38 x 4.12 x 0.28	105.0 (9.8)	94.7 (9.2)	1170 (531)	18/50	4"-87"	1845	1845	3345
140x275	Sing/Bk	7'10" x 14'10" x 11"	2.38 x 4.52 x 0.28	115.1 (10.8)	104.2 (10.1)	1280 (581)	18/55	4"-87"	2045	2045	3695
140x300	Sing/Bk	7'10" x 16'2" x 11"	2.38 x 4.91 x 0.28	125.3 (11.7)	113.6 (11.0)	1395 (633)	18/60	4"-87"	2240	2240	4040
140x325	Sing/Bk	7'10" x 17'5" x 11"	2.38 x 5.31 x 0.28	135.4 (12.6)	123.1 (12.0)	1505 (683)	18/65	4"-87"	2390	2390	4340
140x350	Sing/Bk	7'10" x 18'9" x 11"	2.38 x 5.7 x 0.28	145.5 (13.6)	132.5 (12.9)	1615 (733)	18/70	4"-87"	2590	2590	4690
140x375	Sing/Bk	7'10" x 20'0" x 11"	2.38 x 6.1 x 0.28	155.6 (14.5)	142.0 (13.8)	1730 (785)	18/75	4"-87"	2790	2790	5040
140x400	Sing/Bk	7'10" x 21'4" x 11"	2.38 x 6.5 x 0.28	165.7 (15.5)	151.5 (14.7)	1840 (835)	18/80	4"-87"	2940	2940	5340
140x425	Sing/Bk	7'10" x 22'8" x 11"	2.38 x 6.89 x 0.28	175.8 (16.4)	160.9 (15.6)	1955 (887)	18/85	4"-87"	3135	3135	5685
140x450	Sing/Bk	7'10" x 23'11" x 11"	2.38 x 7.29 x 0.28	185.9 (17.4)	170.4 (16.6)	2065 (937)	18/90	4"-87"	3335	3335	6035
140x475	Sing/Bk	7'10" x 25'3" x 11"	2.38 x 7.69 x 0.28	196.1 (18.3)	179.9 (17.5)	2180 (989)	18/95	4"-87"	3485	3485	6335
140x500	Sing/Bk	7'10" x 26'6" x 11"	2.38 x 8.08 x 0.28	206.2 (19.2)	189.3 (18.4)	2290 (1039)	18/100	4"-87"	3680	3680	6680
140x525	Sing/Bk	7'10" x 27'10" x 11"	2.38 x 8.48 x 0.28	216.3 (20.2)	198.8 (19.3)	2405 (1091)	18/105	4"-87"	3880	3880	7030
140x550	Sing/Bk	7'10" x 29'2" x 11"	2.38 x 8.87 x 0.28	226.4 (21.1)	208.3 (20.2)	2515 (1141)	18/110	4"-87"	4030	4030	7330
140x575	Sing/Bk	7'10" x 30'5" x 11"	2.38 x 9.27 x 0.28	236.5 (22.1)	217.7 (21.2)	2630 (1193)	18/115	4"-87"	4235	4235	7685
140x600	Sing/Bk	7'10" x 31'9" x 11"	2.38 x 9.67 x 0.28	246.6 (23.0)	227.2 (22.1)	2740 (1243)	18/120	4"-87"	4435	4435	8035
140x625	Sing/Bk	7'10" x 33'0" x 11"	2.38 x 10.06 x 0.28	256.7 (23.9)	236.6 (23.0)	2850 (1293)	18/125	4"-87"	4585	4585	8335
140x650	Sing/Bk	7'10" x 34'4" x 11"	2.38 x 10.46 x 0.28	266.9 (24.9)	246.1 (23.9)	2965 (1345)	18/130	4"-87"	4785	4785	8685
140x675	Sing/Bk	7'10" x 35'8" x 11"	2.38 x 10.86 x 0.28	277.0 (25.8)	255.6 (24.6)	3075 (1395)	18/135	4"-87"	4980	4980	9030
140x700	Sing/Bk	7'10" x 36'11" x 11"	2.38 x 11.25 x 0.28	287.1 (26.8)	265.0 (25.5)	3190 (1447)	18/140	4"-87"	5130	5130	9330
140x725	Sing/Bk	7'10" x 38'3" x 11"	2.38 x 11.65 x 0.28	297.2 (27.7)	274.5 (26.5)	3300 (1497)	18/145	4"-87"	5330	5330	9680
140x750	Sing/Bk	7'10" x 39'6" x 11"	2.38 x 12.04 x 0.28	307.3 (28.7)	284.0 (27.4)	3415 (1550)	18/150	4"-87"	5525	5525	10025
140x775	Sing/Bk	7'10" x 40'10" x 11"	2.38 x 12.44 x 0.28	317.4 (29.6)	293.4 (28.3)	3525 (1599)	18/155	4"-87"	5675	5675	10325
140x800	Sing/Bk	7'10" x 42'2" x 11"	2.38 x 12.84 x 0.28	327.5 (30.6)	302.9 (29.2)	3640 (1652)	18/160	4"-87"	5875	5875	10675
140x825	Sing/Bk	7'10" x 43'5" x 11"	2.38 x 13.23 x 0.28	337.7 (31.5)	312.4 (30.1)	3750 (1701)	18/165	4"-87"	6075	6075	11025

Peter Knudsvig

From: Glen Wiebe <Glen.Wiebe@daktronics.com>
Sent: Thursday, October 22, 2015 8:50 AM
To: Bob Sherlock
Subject: RE: Power outages on displays

Good morning Bob,

If there is a power outage the display will go blank. Upon return of power the display will automatically revert to what is in its scheduled playlist and start playing the content that it is scheduled to play. The files are store in non-volatile memory, so it does not get erased from a power outage. This is a much better system than using a battery backup for message storage like we use to years ago.

Let me know if there are further questions.

Sincerely,

Glen Wiebe Commercial Sales Applications Engineer
Phone **605-692-0200** ext. **56835** | Mobile Phone **605-691-4554**
Address **201 Daktronics Dr. Brookings, SD 57006**
daktronics.com | [Facebook](#) [Twitter](#) [YouTube](#)



From: Bob Sherlock [<mailto:rsherlock@signartusa.com>]
Sent: Thursday, October 22, 2015 7:45 AM
To: Glen Wiebe <Glen.Wiebe@daktronics.com>
Subject: Re: Power outages on displays

Glen,

I am quoting a Daktronic unit for Tonka Bay here in MN and I've never been asked this but the city inspector has a question: If there is a power outage does the sign display a default message and if so, what would this be? These signs have a battery backup system do they not?

Bob Sherlock | Sales | rsherlock@signartusa.com
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