



WAUKEGAN PARK DISTRICT

1324 GOLF ROAD • WAUKEGAN, IL 60085-4831 • PHONE (847) BIG-PARK • PHONE (847) 244-7275 • WWW.WAUKEGANPARKS.ORG

March 10, 2020

Dear Prospective Vendor:

The Waukegan Park District is accepting bids for:

2020 COASTAL MANAGEMENT SIGN PROJECT

Bids are due on Monday, **March 23, 2020 at 10:00 AM.** at the Waukegan Park District Administrative Center, 1324 Golf Road, Waukegan, IL 60087. The bids should be clearly labeled "**2020 COASTAL MANAGEMENT SIGN PROJECT**".

We appreciate your bidding on the enclosed item and welcome the opportunity to do business with you.

If you have any questions please contact **Tim Girmscheid 847-360-4755** or by email at tgirmscheid@waukeganparks.org.

Sincerely,

Tim Girmscheid

Manager of Planning Services

TG/tg

Enclosures: 1

WAUKEGAN PARK DISTRICT

BID DOCUMENTS/PROJECT MANUAL: 2020 COASTAL MANAGEMENT SIGN PROJECT

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DATE OF ADVERTISEMENT: TUESDAY, MARCH 10, 2020

**DUE DATE & BID OPENING: MONDAY, MARCH 23, 2020
10:00 AM
WAUKEGAN PARK DISTRICT ADMINISTRATIVE CENTER
1324 GOLF ROAD
WAUKEGAN, IL 60087**

**TENTATIVE DATE OF BID APPROVAL:
TUESDAY MARCH 24, 2020
4:30 PM**

**DELIVER/MAIL BID TO TIM GIRMSCHIED
MARKED "SEALED BID: 2020 COASTAL MANAGEMENT SIGN
PROJECT"
WAUKEGAN PARK DISTRICT ADMINISTRATIVE CENTER
1324 GOLF ROAD
WAUKEGAN, IL 60087**

WAUKEGAN PARK DISTRICT

NOTICE TO BIDDERS

The Waukegan Park District, Lake County, Illinois (“Owner” or “Park District”), invites bids for the following project:

1. 2020 Coastal Management Sign Project

Bid Documents, including Instructions to Bidders, Drawings, technical Specifications, General and any Special Conditions and Bid Forms including required Contractor certifications, are available **electronically by contacting the Waukegan Park District Parks Department at 847-360-4755 or by email at tgirmscheid@waukeganparks.org**.

Each bid shall be placed in a sealed envelope and clearly marked “Waukegan Park District, 2020 COASTAL MANAGEMENT SIGN PROJECT”. The envelope shall be addressed and delivered to and received by the Park District at the following location: Waukegan Park District Administrative Center, 1324 Golf Road, Waukegan, Illinois 60087. No responsibility shall be attached to any person for premature opening of a bid not properly identified.

Bids shall be received until 10:00 AM on Monday March 23, 2020. Immediately thereafter, the bids will be publicly opened and read aloud. Bids received after that time or at a different location will be rejected.

The Waukegan Park District reserves the right to waive technicalities, to accept or reject any or all bids, to accept only portions of a bid and reject the remainder. Owner will award the Contract to the lowest most responsible and responsive Bidder, as determined by Owner. In considering the Bidder’s responsibility, the Owner may evaluate, among other factors, the ability of the Bidder to provide experienced labor sufficient in numbers to timely and properly complete the services, the financial capability of the Bidder, and the performance of the Bidder on other projects.

Bids shall not include federal excise tax or state sales tax for materials to be incorporated in, or totally consumed in the prosecution of the Work. A tax exemption certificate will be furnished by the Park District at the request of the Bidder. The District’s tax exemption number shall only be used by the successful Bidder for the Work of this Project.

No bid may be withdrawn and all bids shall remain firm for sixty (60) days after the bid opening.

The Contractor(s) selected will also be required to comply with all applicable federal, state and local laws, rules, regulations and executive orders, including but not limited to those pertaining to equal employment opportunity. All bids must be accompanied by cashier’s check or bid bond payable to the order of the Waukegan Park District for ten percent (10%) of the amount of the bid as provided in the Instructions to Bidders. No proposals or bids will be considered unless accompanied by such bond or check.

By Order of the Board of Park Commissioners of the
Waukegan Park District

Jay Lerner, Executive Director

Waukegan Park District (847) 360-4755
PUBLISHED DATE: March 10, 2020

WAUKEGAN PARK DISTRICT

SECTION 1: INSTRUCTIONS TO BIDDERS AND CONDITIONS

1.01 GENERAL

The following instructions relate to the proper form and method for submitting the Bid Proposal, the accompanying surety, the provisions for the letting of Contracts, and to such other matters.

1.02 PREPARATION AND SUBMISSION OF BIDS

Each bid must be placed in an opaque-sealed envelope and clearly marked **"SEALED BID: 2020 COASTAL MANAGEMENT SIGN PROJECT,"** and addressed and delivered to and received by the Park District at the following location: **Waukegan Park District Administrative Center, 1324 Golf Road, Waukegan, Illinois 60087.** Bids shall be received until **10:00 am on March 23, 2020.** Immediately thereafter, the bids will be publicly opened and read aloud. Bids arriving after the specified time or at a different location will be rejected and will be returned unopened, including mailed bids regardless of when post marked.

Bid Documents, including Instructions to Bidders, Drawings, technical Specifications, General and any Special Conditions and Bid Forms including required Contractor certifications, **electronically by contacting the Waukegan Park District Parks Department at 847-360-4755 or by email at tgirmscheid@waukeganparks.org.** Office hours are Monday-Friday, 7:00 a.m. - 3:30 p.m. Any questions related to the bidding requirements shall be directed to **Tim Girmscheid, Manager of Planning Services at 847-360-4755 or by email at tgirmscheid@waukeganparks.org.**

It is the sole responsibility of the Bidder to see that his/her bid is received in proper time. **No faxed or e-mail bid or modification of a bid will be considered.** The Park District is not responsible for the premature opening of bids not marked as required. Any bid opened prematurely due to the failure of the Bidder to mark the envelope in accordance with these Bid Documents will be considered non-responsive. Bidders' prices are to include the delivery of all materials; including plant, equipment, supplies, tools, transportation, insurances, warranties, and all other items and facilities, and the performance of all labor and services, necessary for the proper completion of the Purchase except as may be otherwise expressly provided in the Purchase Documents. Bids shall not include federal excise tax or state sales tax for materials to be incorporated in, or totally consumed in the prosecution of, the Purchase. An exemption certificate will be furnished by the Park District upon request of the Bidder.

Bidder must acknowledge all Addenda received in the spaces provided on the Bid Proposal Form. By submitting a bid, Bidder indicates that all considerations issued by Addendum are incorporated in the bid.

The Bidder shall submit its prices on the attached Bid Proposal Form. The Bid Form shall be executed properly and all writing, including all signatures, shall be with black ink. Failure to use the Bid Form provided could result in rejection of the bid. Do not detach any portion of this document; invalidation of the bid could result.

The Bidder shall specify in figures, in the places provided, a price for each of the separate items called for in the Bid Proposal Form.

1.03 REQUIREMENTS OF BIDDERS

Bidders must be able to demonstrate that they: (1) have experience in performing, have successfully performed and are still actively engaged in performing work similar in kind and scope to the Work of the Project; (2) are able to show that they have adequate laborers and materials to successfully complete the Work as indicated in the Bid Documents and within the time required by the Bid Documents. The Contractor shall not have been debarred on determined ineligible for public contracts by any governmental agency.

1.04 EXAMINATION OF SITE, DRAWINGS, SPECIFICATIONS

The Bidder shall thoroughly examine and be familiar with all of the Bid Documents including but not limited to the Drawings and the Specifications. Any conflicts or discrepancies found between or among the Bid Documents including but not limited to the Drawings and Specifications and or any errors, omissions, or ambiguities contained in the documents shall be immediately reported to the Park District and written clarification requested prior to submission of a bid.

The failure or omission of any Bidder to obtain, receive or carefully examine any form, instrument, or information or to seek needed clarification shall in no way relieve any Bidder from any obligations with respect to his bid. By submitting a bid, the Bidder agrees, represents and warrants that he has undertaken such investigation as he deemed necessary, has carefully examined the Bid Documents, has obtained all needed clarifications and where the Bid Documents indicate in any part of the Work, that a given result be produced, that the Bid Documents are adequate and the required result can be produced as indicated. Once the award has been made, failure to have undertaken and completed the foregoing tasks shall not because to alter the original Purchase or to request additional compensation.

1.05 ACCEPTANCE OR REJECTION OF BIDS

The Park District may accept the bid of, and award the contract for the Work to, the lowest responsive and responsible Bidder as determined by and in the sole discretion of the Park District.

The Park District reserves the right to: (1) reject all bids; (2) reject only certain bids which are non-conforming or non-responsive to the bid requirements; (3) accept only a portion, part or specific items of Work of bids which are separately set forth on the Contractor Bid Form and reject others, as the Owner shall in its sole discretion determine to be in its best interest; and/or (4) award the Contract to the responsible Bidder submitting the lowest bid responsive to the bidding requirements as determined by the Park District .

In the event of a rejection of a portion, part, or certain items of Work of all bids, the bid of each Bidder shall automatically be deemed reduced by the amount of such rejected part or item at the unit price or other cost designated therefor by that Bidder on its submitted Contractor Bid Form. The successful Bidder so selected may not refuse to enter into a Contract with the Owner on the basis that the Owner awarded a Contract for less than all portions or items of the Work specified in the Bid Documents. The Park District's Board of Park Commissioners reserves the right to waive any technicalities or irregularities, and to disregard any informality in the bids and bidding, when in its opinion the best interest of the Park District will be served by such actions and in accordance with applicable law.

1.06 WITHDRAWAL OF BID

Bidders may withdraw or cancel their bids at any time prior to the advertised bid opening time by signing and submitting a request for said withdrawal. After the bid opening time, no bid shall be withdrawn or canceled for a period of sixty (60) calendar days.

1.08 ACCEPTANCE

The acceptance of a bid will be by a Notice of Award, signed by a duly authorized representative of the Park District; no other act by the Park District shall constitute the acceptance of a bid. The acceptance of a bid by the Park District shall bind the successful Bidder to execute and perform the Work of the Purchase.

1.09 INTERPRETATION OF THE BID DOCUMENTS

If a Bidder is in doubt as to the interpretation of any part of the Bid Documents, or finds errors, discrepancies or omissions from any part of the Bid Documents, he must submit a written request for interpretation thereof not later than five (5) days prior to opening of bids. Address all communications to the Park District. If an error or omission in the Bid Documents is discovered after the bid opening, the Park District reserves the right (i) to determine whether to require the submission of new bids or, (ii) if the error or omission is of such a nature that it was reasonably discoverable upon a careful review of the Bid Documents, to award the Purchase to the lowest responsive and responsible Bidder as determined by the Park District. Such decisions are final and not subject to recourse. Errors and omissions made by the Bidder cannot be corrected by the Bidder after the bid opening.

1.10 ADDENDA

Any interpretation, correction to, or addition to the Bid Documents will be made by written Addendum and will be delivered by mail or fax to each Bidder of record. The written Addenda constitute the only interpretations of the Bid Documents; the Park District accepts no responsibility for any other claimed interpretations or communications.

It is the responsibility of each Bidder to verify that he/she has received all Addenda prior to submitting a bid. It is also the responsibility of each Bidder to verify that all subcontractors and material suppliers whose prices are incorporated in the Bidder's bid are familiar with the Bid Documents in their entirety, including all Addenda issued up to the time of bid opening.

In the event a conflict or omission is discovered in the Bid Documents after the issuing of the last Addendum such that an interpretation cannot be issued by the Park District prior to bidding, the Bidder is directed to estimate on and provide the quantity and quality of material and labor consistent with the overall represented and indicated Work so as to provide all materials, equipment, labor, and services necessary for the completion of the Work in accordance with the Bid Documents.

1.11 SUBSTITUTIONS DURING BIDDING

Unless otherwise indicated, the use of brand names in the Specifications is used for the purpose of establishing a grade or quality. Bidders proposing to use an alternate that is equal to or superior to in every respect to that required by the Specifications must request approval in writing to the Park District at least five (5) business days prior to the bid opening and mark the item as 'or approved equal'.

Additionally, Bidders requesting approval for use of an alternate must provide certification by the manufacturer that the substitute proposed is equal to or superior in every respect to that required by the Bid Documents, and that its in-place performance will be equal to or superior to the product or equipment specified in the application indicated.

The Park District may request additional information or documentation necessary for evaluation of the request for substitution. The Park District will notify all Bidders of acceptance of the proposed substitute by means of an Addendum to the Bid Documents. Park District's approval of a substitute during bidding does not relieve the Contractor of the responsibility to submit required shop drawings and to comply with all other requirements of the Documents. Bids proposing alternates not previously approved by the Park District will be considered non-responsive and rejected. The Park District reserves the right to determine whether a substituted selection, in its sole judgment, is equal to or better quality and therefore an acceptable alternate. Such decisions are final and not subject to recourse.

1.12 COMPLETION AND DELIVERY DATES

Completion and Delivery: it is currently anticipated that **Purchase Order will occur on or about April 1, 2020. Production is expected by April 30, 2020. Delivery is expected by May 7, 2020.**

1.13 GUARANTEE

The successful Bidder(s) must present the Park District with two (2) copies of any manufacturer's warranty or guarantee information. If needed, the Bidder agrees to sign over warranties and guarantees to the Park District.

1.14 REJECTION AND WITHDRAWAL OF BID

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any informalities. . It is agreed that this bid may not be withdrawn for a period of sixty (60) days from the opening thereof.

WAUKEGAN PARK DISTRICT

**2020 COASTAL MANAGEMENT SIGN PROJECT
WAUKEGAN PARK DISTRICT
WAUKEGAN, ILLINOIS**

BID PROPOSAL FORM

2.01 BID TO:

Waukegan Park District
(hereinafter called "Owner")
1324 Golf Road
Waukegan, IL 60087

2.02 BID FROM:

(hereinafter called "Bidder")

Address

City, State, Zip Code

Email Address

Contact Person

Telephone Number

Fax Number

2.03 BID FOR:

**2020 COASTAL MANAGEMENT SIGN PROJECT
WAUKEGAN, ILLINOIS**

2.04 ACKNOWLEDGEMENT

The undersigned hereby acknowledges receipt of Invitation of Bids, Instructions to Bidders, the Specifications, Drawing, Conditions, Certifications, and other Purchase Documents and acknowledges receipt of the following Addenda:

Addendum No. _____ Dated: _____

WAUKEGAN PARK DISTRICT

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

2.05 AGREEMENT

A. In submitting the Bid, the undersigned agrees:

1. To hold the Bid open for sixty (60) days from submittal date.
2. That the Bidder has carefully examined the Instructions to Bidders, the Drawings and Specifications, and the Project Manual in its entirety, in order to determine how these affect the bid proposal, the forms of the Purchase. The Bidder waives all rights to plead any misunderstanding regarding the same.
3. To accomplish the work in accordance with the Bid Documents.
4. To complete the work by the time stipulated in the Bid Documents.
5. That if this proposal is accepted, the Bidder is to provide all of the necessary equipment, tools, apparatus, labor, and other means of construction, and to do all of the Work and to furnish all of the materials specified in the Bid Documents in the manner and at the time therein prescribed, and in accordance with the requirements set forth.
6. The Bidder proposes to utilize the products and services of the following Subcontractors/Vendors and major suppliers for the completion of the Contract. All Subcontractors/Vendors shall be approved by the Owner prior to start of their Work on the Project. If no Subcontractors or major suppliers are to be used, indicate "NONE".

(1) _____ PH: ____/_____
Subcontractor/major supplier

Address

Work to be performed/materials to be supplied

(2) _____ PH: ____/_____
Subcontractor/major supplier

Address

Work to be performed/materials to be supplied

WAUKEGAN PARK DISTRICT

2.06 TOTAL BASE BID PRICE

A. Base Bid Price (Guaranteed Maximum Price)

For provision of all Products shown on the Drawings and Specifications, the Bidder agrees to provide and deliver the products for the following sums:

#	Quantity	Item	Unit Price	Extended Price
1	20	36" W x 24" H CHPL Horizontal Exterior Signs – Matte Finish, 1/2" Thick. All per specifications.		
2	20	In-Ground Mount Double Cantilever Pedestal – Aluminum, 3"x3" Arm with formed angle mount bracket, 45 degree angle, 48" overall length, Powder coated black , Mounting Hardware included. All per specifications.		
3	1	Crating and Shipping to 2211 Ernie Krueger Circle Waukegan, IL		
4			Total Base Bid Price	

1. TOTAL (WRITTEN OUT) _____ DOLLARS
AND _____ CENTS

2.07 ALTERNATE BID PRICES

A. The following unit prices are submitted by the undersigned Bidder as a proposed basis for additive or deductive adjustment to the Total Base Bid in the event changes are required involving the items described.

#	Quantity	Item	Increase/Decrease?	Price
1	1	Additional 36" W x 24" H CHPL Horizontal Exterior Sign – Matte Finish, 1/2" Thick. All per specifications. Prices to be honored regardless of quantity to a maximum of 12. Includes shipping.		
2	1	Additional 36" W x 24" H CHPL Horizontal Exterior Sign – Matte Finish, 3/4" Thick. All per specifications. Prices to be honored regardless of quantity to a maximum of 12. Includes shipping.		
3	1	Additional In-Ground Mount Double Cantilever Pedestal – Aluminum, 3"x3" Arm with formed angle mount bracket, 45 degree angle, 48" overall length, Powder coated black , Mounting Hardware included. All per specifications.		
4	20	Upgrade all CHPL Horizontal Exterior Signs in Base Bid to 3/4" thick		
5	1	Substitute In-Ground Mount with <u>Surface Mount</u> Double Cantilever Pedestal and Cover Plate – Aluminum, 3"x3" Arm with formed angle mount bracket, 45 degree angle, 48" overall length, Powder coated black , Mounting Hardware included. All per specifications. Unit prices to be honored regardless of quantity.		

WAUKEGAN PARK DISTRICT

CORPORATION

The Bidder is a Corporation organized and existing under the laws of the State of _____

Print Name

Duly Authorized Officer's Signature

Title

CORPORATE SEAL (above)

PARTNERSHIP

The Bidder is a co-partnership consisting of individual partners whose full names are listed below:

Print Name

(Partner's Signature)

INDIVIDUAL

The Bidder is an individual.

Print Name

Individual's Signature

Bidder must have their signature above notarized below regardless of Bidder Type

Sworn and Subscribed to before me this _____ day of _____, 2020.

My Commission Expires _____, 20__.
Notary Public or other Officer authorized to administer oaths

PROJECT LIST

List three (3) of the largest projects completed in the past three (3) years which are similar in scope to the **2020 COASTAL MANAGEMENT SIGN PROJECT**.

1. Project Name _____

Description _____

Client Name _____

Original Contract Amount _____ Final Contract Amount _____

Contract Final Completion Date _____ Actual Final Completion Date _____

Contact Person _____ Phone Number _____ Email _____

Architect/Engineer _____ Phone Number _____ Email _____

2. Project Name _____

Description _____

Client Name _____

Original Contract Amount _____ Final Contract Amount _____

Contract Final Completion Date _____ Actual Final Completion Date _____

Contact Person _____ Phone Number _____ Email _____

Architect/Engineer _____ Phone Number _____ Email _____

3. Project Name _____

Description _____

Client Name _____

Original Contract Amount _____ Final Contract Amount _____

Contract Final Completion Date _____ Actual Final Completion Date _____

Contact Person _____ Phone Number _____ Email _____

Architect/Engineer _____ Phone Number _____ Email _____

2020 COASTAL MANAGEMENT SIGN PROJECT

Project Specifications/Drawings

PART I - GENERAL SPECIFICATIONS

1.1 DOCUMENTS

This section of the specification forms part of the Bid/Purchase Documents and is to be read, interpreted and coordinated with all other parts of the document.

1.2 SCOPE

The specification section applies only to the manufacture and supply of custom digitally printed artwork in Custom High Pressure Laminate.

1.3 DEFINITIONS

1.3.1 INTERIOR AND EXTERIOR GRADE CUSTOM HIGH PRESSURE LAMINATES

Custom High Pressure Laminate material composed of layers of FSC Certified phenolic resin impregnated kraft filler paper to produce specified thicknesses. Available in sanded back 0.040" laminate and the following compact laminate thicknesses; 0.06", 0.09", 0.125", 0.25", 0.5", 0.75".

All graphics are imaged on saturation grade paper with UV resistant pigmented inks. Custom High Pressure Laminate sheets and panels are surfaced by a layer of melamine overlay. Exterior grade panels have an additional optically clear UV overlay that will resist no less that 99% of all sunlight and UV rays, as well as providing a graffiti resistant surface that allows for removal with standard cleaners.

1.3.2 MANUFACTURE

For purposes of this specification, layers of material described in 1.3.1 are to be assembled, and heat / pressure consolidated at approximately 1200 PSI at temperatures exceeding 275° Fahrenheit at manufacturer's prescribed time frames.

All manufacturing processes of printing, pressing, machining, finishing and crating to be accomplished within a single stand alone manufacturing facility to ensure consistent quality control and providing standard product delivery times of three weeks.

1.3.3 IMAGING / ARTWORK

The graphic material and images are to be supplied by and under the supervision of the architect, designer or end user on this project. To include mechanicals, text, photographs, transparencies, film and other graphic source materials incorporated into digital graphic production artwork files in manufacturer's required file formats. All graphics must be assembled by computer designers familiar with and experienced in the process of digital printing and submitting production artwork files that meet the artwork requirements of the manufacturer.

1.3.4 APPROVALS

Approvals are the responsibility of the owner, end user, designer or architect at every stage of process and production as submitted by the manufacturer to the above. Work shall not proceed without receipt of written approval authorizations.

PART II - GENERAL REQUIREMENTS

Supply Custom High Pressure Laminate panels as specified and shown on the drawings and supplemental specifications, as approved by the architect, designer or end user before fabrication.

2.1 REFERENCES

Manufacturer shall provide references from a minimum of three (3) customers with projects of similar scope and size and whom have used their service in the past three (3) years and achieved the satisfaction of end user/architect/designer.

2.2 RELATED WORK

Related work shall be carried out by a qualified contractor specializing in such scope of work and as approved by the end user/architect/designer.

2.3 INSTALLATION

Shall be performed in a workmanlike fashion consistent with standard industry practices and per approved fabrication shop drawings related to installation of Custom High Pressure Laminate and conforming to NEMA – LD3. Prime Project Fabrication Contractor shall provide all necessary shop drawings, manufacturing specifications and installation instruction to manufacturer and respective installation resources.

2.4 INSTALLATION MATERIALS

Provide as specified and detailed in approved shop drawings provided by the Prime Project Fabrication Contractor.

2.5 QUALIFICATION

Manufacturer to illustrate a minimum of five (5) years previous experience with projects of similar size and scope.

2.6 SUBMITTALS AND SAMPLES

Custom High Pressure Laminate manufacturer must supply project specific electronic PDF proofs for content approval and minimum 8" x 10" x .060" actual material lab samples for color and finish approval from production ready digital art work and specifications as provided by end user/architect/designer.

2.7 QUALITY ASSURANCE

Quality of entire project must conform to specification and bid submittals as approved by end

user/architect/designer.

Quality assurance to be provided by all printing, pressing, machining, finishing and crating of project products to be accomplished within a single stand alone manufacturing facility.

Manufacturer to provide evidence of third party Accelerated Weather Testing (ASTM GS90) to confirm materials will perform to the ten (10) year warranty.

2.8 ENVIRONMENTAL

Manufacturer must be able to demonstrate compliance with all worker's safety and environmental regulations at specific location of manufacture.

Product to be assembled utilizing only FSC certified kraft paper.

Meets LC50 Pittsburgh Protocol Toxicity Test. Equal to and no more toxic than wood or paper.

2.9 WARRANTY

Provide a written warranty issued in the name of the owner and authorized by the Manufacturer stating that the Custom High Pressure Laminate panels are warranted for exterior durability for ten (10) years against fading, delaminating or other material defect from date of substantial completion. Warranty is not to be pro rated.

PART III - MANUFACTURING PROCESS

3.1 CUTTING AND SHAPING

All fabrication tools used in shaping and cutting of custom high pressure compact laminate panels must be carbide-tipped. Precision machining to be completed utilizing computer assisted cutting equipment with tooling, feed rates and spindle RPM as required for smooth mill finish edges. When used, saw blades must be no less than 10" diameter, hollow ground, 60-80 tooth, carbide tipped, running at a minimum of 3600 rpm. All cutting and shaping must be conducted in the same facility as all other manufacturing processes.

The finished product will be smooth on all edges, and machined within a tolerance of +/-0.060" to size specified for final installation.

3.2 SURFACE FINISH

Provide surface finish to match the Manufacturer's standard finishes of Ice, Matte or Satin and as specified in project design specifications.

Continuity of panel surfaces: Visual inspection of each panel shall reveal no visible nicks or cuts, hairline cracks, blemishes or surface defects in the surface of the finished panel.

PART IV - ART AND IMAGING

4.1 ART PREPARATION

Manufacturer shall produce panels from digital production art files as supplied by the end user/architect/designer. Designated resource supplying production ready artwork files will review files and

prepared per Manufacturer's artwork requirements for digital image processing. Artwork submitted to Manufacturer shall be in required file format, (and stored on a commonly available removable storage media, such as memory stick, DVD or CD) or may be uploaded to Manufacturer's FTP site.

4.2 ART APPROVALS

All files to be reproduced in custom High Pressure Laminate shall be submitted to the end user/ architect/designer in electronic PDF Proof format for content approval. An optional 8" x 10" x .060" actual material color sample submitted for color and finish approval prior to production in Custom High Pressure Laminate.

4.3 ORIGINAL ARTWORK

Original artwork provided for use in production shall not be harmed in any way (writing, cutting, etc.) and will be returned to the end user/architect/designer upon successful completion and acceptance of the project.

4.4 DIGITAL IMAGING

Digital imaging shall be printed on Manufacturer's required saturation grade substrate for inclusion in lamination process and will be of even color consistency throughout the image. All imaging shall be reproduced using UV stable pigmented inks at a resolution of no less than 300 DPI and up to 2400DPI. (Dots per Inch).

4.5 IMAGING INKS

Imaging inks used in the printing process shall be UV resistant. The imaging inks shall be pigment based to assure maximum durability, with minimal environmental impacts.

4.6 TECHNICAL PROFICIENCY

Manufacturer shall employ printing technicians proficient in industry standard imaging techniques and be able to demonstrate capabilities in photographic reproduction, including halftones, duotones, four-color process and line art.

Provide procedures and personnel trained to effectively and consistently manage equipment calibration and maintenance in order to ensure broadest color gamut and consistent color output.

4.7 COLOR REFERENCE

Pantone Solid Coated colors preferred for color reference.

Manufacturer to incorporate calibration of all systems of color management in order to provide fidelity and consistency of reproducing available color gamut.

PART V - ASTM - MECHANICAL PERFORMANCE PROPERTIES

These standards represent the minimum acceptable qualities as tested for Custom High Pressure Laminate materials.

WAUKEGAN PARK DISTRICT

Property	Grade Unit	Values
Weight per square foot	1/4"	1.81 lb/sf
	1/2"	3.62 lb/sf
	3/4"	5.40 lb/sf
Flexural Strength	MPa (psi) MD, min	125 (18000)
	MPa (psi) CD, min	82.7 (12000)
Impact Strength	mm (in), min	1900 (75)
Tensile Strength	MPa (psi) MD, min	124 (18000)
	MPa (psi) CD, min	82.7 (12000)
Modulus of Elasticity	MPa (psi) MD, min	11000 (1600000)
	MPa (psi) CD, min	9650 (1400000)
Fire Rated (Class A) Flame Spread Smoke Development	ASTM E84	15
		40
Standard (Class B) Flame Spread Smoke Development	ASTM E84	60
		175
Rockwell Hardness	Rating, *min	70 (E Scale)
Dimensional Stability	%MD, max	0.3
	%CD, max	0.7
UV Resistance	Rating, *min	No change after 2000 hours
Boiling Water Resistance	Rating, *min	No Change

PART VI - DELIVERY, TRANSPORT, AND RELATED

6.1 INSPECTION

Prior to wrapping and crating, finished panels shall be inspected for scratches, blemishes, chips and flatness. Any panel not meeting the requirements of this specification shall be rejected and promptly replaced by Manufacturer at no additional cost.

6.2 CLEANING

All panels shall be cleaned in advance of packaging/crating.

6.3 CRATING

Custom High Pressure Laminate panels shall be packaged in a manner, which completely enclose the panels from exposure to the environment or transport equipment. The crates shall be lined with packing material to prevent movement and protection of panels within the crates. Complete documentation of shipment to be provided including but not limited to; Packing List, Cleaning & Maintenance Instructions

and Warranty Document

6.4 DELIVERY

Delivery shall be the responsibility of the Manufacturer and all materials will be insured for the total value of the contents. The consignee must report any freight or other damage claims to the Manufacturer within 48 hours of receiving the crated panels.

PART VII - MAINTENANCE AND SERVICEABILITY

7.1 MAINTENANCE

Manufacturer's documentation covering the care, cleaning and maintenance of Custom High Pressure Laminate materials to be incorporated into project maintenance manuals to be provided with Manufacturer's product delivery.

PART VIII - INSTALLATION

8.1 INSTALLATION

Installation shall be the responsibility of the End User.

8.2 INSPECTION – CUSTOM HIGH PRESSURE LAMINATE PANELS

Inspect completed panels for general workmanship including clarity of images, proper alignment of images on color separations, clean backgrounds, correct colors, appropriate thickness and verify all surfaces are free from blemishes and defects prior to installation.

8.3 ADHESIVES

Apply only applicable and approved adhesives as shown in approved shop drawings, as provided by Prime Fabrication Contractor, and/or NEMA LD3. All surfaces to be cleaned and prepared per adhesives manufacturer's instructions

8.4 CLEANING

Clean completed panel surfaces with a soft cloth and any good quality glass cleaner. Abrasive cleaners should be avoided for long-term usage.

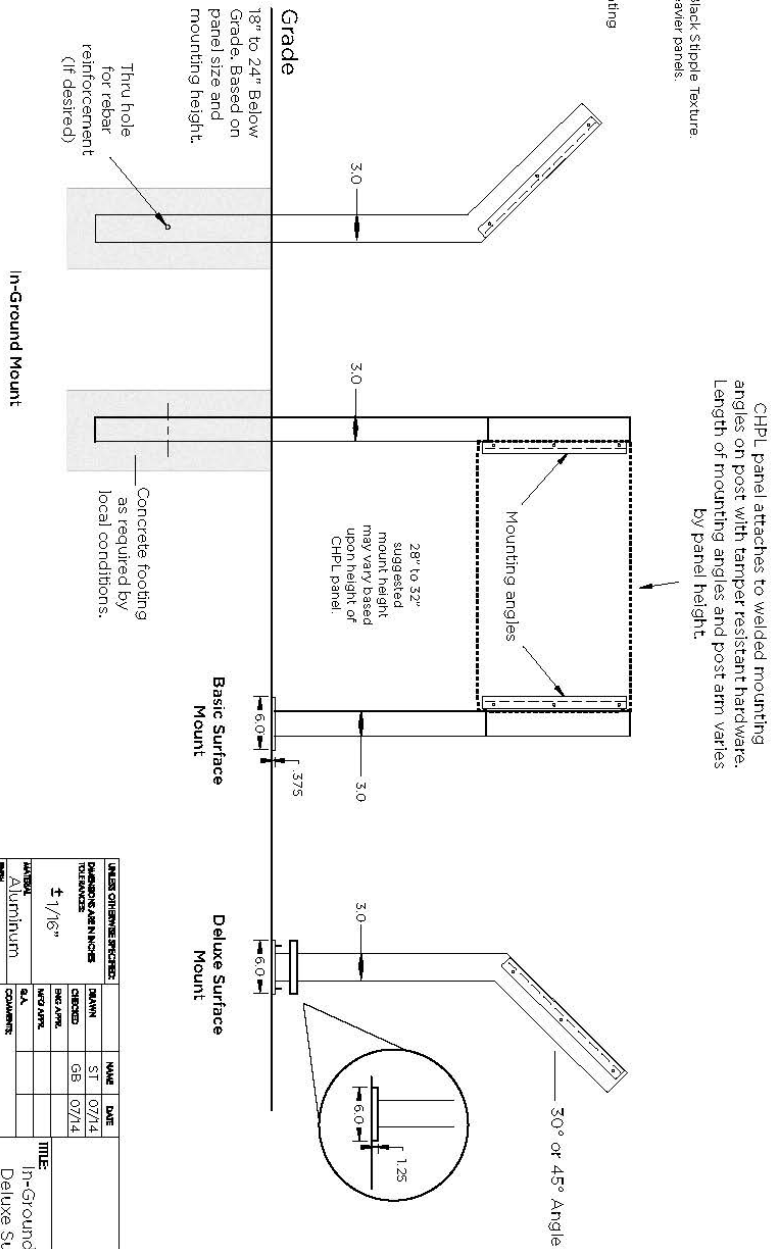
Cantilever Pedestal Typical Drawings

Cantilever Pedestal
 Standard pedestal construction for 1/2" thick CHPL panel
 In-Ground and Basic or Deluxe Surface Mount

Standard powder coat aluminum, Black Stipple Texture
 Custom Construction available for heavier panels.

Optional Colors:
 NPS Brown
 Custom RAL Matching Powder Coating
 Custom Match Wet Paint

Standard pedestal 48" is for 24" high CHPL panel. Not recommended for panels higher than 24".



UNLESS OTHERWISE SPECIFIED:	DESIGN	DATE
DIMENSIONS IN INCHES	ST	07/14
TOLERANCES	GB	07/14
± 1/16"		
MATERIAL	QUANTITY	DATE
Aluminum		
Black		
Brown		
Custom		
DO NOT SCALE DRAWING		

NAME	DATE
DESIGNED BY	
CHECKED BY	
DATE	

TITLE	SIZE	REV
In-Ground and Basic or Deluxe Surface Mount Cantilever Pedestal		
DWG	WEIGHT:	SHEET OF 1

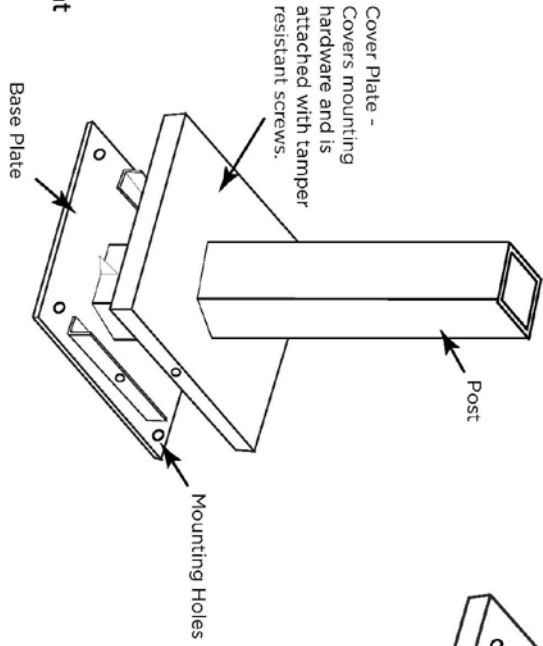
Basic and Deluxe Surface Mount Plates
Standard pedestal construction for 1/2" thick panel

Standard powder coat aluminum: Black Striple Texture.
Custom Construction available for heavier panels.

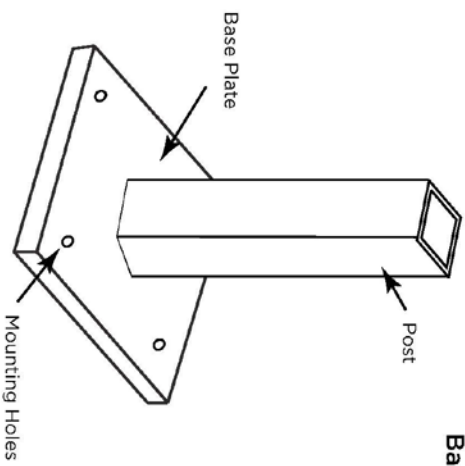
Optional Colors:
NPS Brown
Custom RAL Matching Powder Coating
Custom Match Wet Paint

Standard Post Sizes
2" X 4", 2" X 5", 2" X 2" or 3" X 3"

Deluxe Surface Mount



Basic Surface Mount



UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	07/14
TOLERANCES		CHECKED	07/14
± 1/16"		BND APPR	
MATERIAL		QTY	
Aluminum		COMMENT:	
FINISH			
Black			
Brown			
Custom			
DO NOT SCALE DRAWING			
TITLE:			
Basic and Deluxe Surface Mount Plates			
SIZE		REV	
DWS		SHEET 7 OF 7	
WEIGHT:			