

#6

S P E C I F I C A T I O N S

ICELAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

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C O N T E N T S

- I General Conditions
- II Excavating and Masonry
- III Carpentry Work
- IV Sheet Metal Work
- V Roofing Work
- VI Painting Work
- VII Electric Work
- VIII Plumbing Work

CHAS. F. DEAN  
ARCHITECT  
SACRAMENTO, CALIFORNIA

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ARTICLES OF AGREEMENT

THIS AGREEMENT made the 25th day of June, in the year 1940 by and between Mr. Wm. J. Kerth of 1430 Del Paso Boulevard, North Sacramento, California, hereinafter called the "Owner," the party of the first, part, and the Campbell Construction Company of 800 R Street, Sacramento, California hereinafter called the "Contractor," the party of the second part.

WITNESSETH: That the Owner and the Contractor for the considerations hereinafter named agree as follows:

FIRST: The Contractor agrees, within the space of Ninety (90) calendar days from and after the "starting date" as designated by the Architect in writing, and after this contract has been fully executed and filed with the County Recorder to provide and pay for all materials and labor necessary, and perform and complete in a workmanlike manner all the work in connection with the Erection and Completion of a One Story Concrete and Wood Roofed "Iceland Skating Rink" Building, at 1430 Del Paso Boulevard, North Sacramento, California, as shown on the drawings and described in the specifications prepared by Chas. F. Dean, known herein as the "Architect."

Said drawings are marked "Iceland Skating Rink" for Mr. Wm. J. Kerth, North Sacramento, California and consist of sheets 1 to 5 inclusive, together with Sheets M1 & E1, also sheet illustrating scheme for roof construction as set forth under Alternate #4 and sheet which illustrates changes as set forth under Addenda #3.

Said specifications are divided into sections under the following heads: General Conditions, Excavating and Masonry, Carpentry Work, Sheet Metal Work, Roofing, Painting, Electrical and Plumbing Work. Copies of said Drawings and Specifications, Addenda sheets #1 dated May 14, 1940, Addenda #2 May 15, 1940 and Addenda #3 dated May 20, 1940 are signed by the parties and attached hereto, and by reference made a part of this contract.

SECOND: The Owner agrees to pay the Contractor in current funds for the performance of this contract the sum of THIRTY FIVE THOUSAND FIVE HUNDRED EIGHTY AND no/100 - - - - - (\$35,580.00)

This amount is arrived at as follows:

Main Bid received May 16th, 1940 at 3:30 P.M.	\$36,977.00
Addition as set forth on Addenda #3 attached hereto	928.00
	<u>\$37,905.00</u>
Less deduction under Alternate #2	725.00
Less deduction under Alternate #4	1,600.00
	<u>2,325.00</u>
Net Contract Cost	<u>\$35,580.00</u>

subject to additions and deductions as provided in the General Conditions of the specifications. Payments shall be made upon the certificate of the Architect in favor of the Contractor as provided in the said General Conditions of the specifications. Provided, however, that the Architect may withhold, or, on account of subsequently discovered evidence, nullify the whole or part of any certificate for

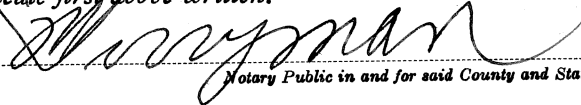
State of California,

} ss.

County of Sacramento

On this 25th day of June A. D. 1940 before me,  
H. E. Perryman a Notary Public in and for the said  
County and State, residing therein, duly commissioned and sworn, personally appeared  
S. O. Mackey, holding power of attorney for  
Walter W. Campbell, doing business as Campbell  
Construction Company

known to me to be the person whose name is subscribed to the within  
Instrument, and acknowledged to me that he executed the same.  
In Witness Whereof, I have hereunto set my hand and affixed my official seal the day  
and year in this Certificate first above written.



Notary Public in and for said County and State of California.

Crooker's Blank No. 133—ACKNOWLEDGMENT—General.


State of California,

} ss.

County of Sacramento

On this 25th day of June A. D. 1940 before me,  
H. E. Perryman a Notary Public in and for the said  
County and State, residing therein, duly commissioned and sworn, personally appeared  
Wm. J. Kerth

known to me to be the person whose name is subscribed to the within  
Instrument, and acknowledged to me that he executed the same.  
In Witness Whereof, I have hereunto set my hand and affixed my official seal the day  
and year in this Certificate first above written.



Notary Public in and for said County and State of California.

Crooker's Blank No. 133—ACKNOWLEDGMENT—General.

payment to protect the Owner from loss on account of: (a) defective work not remedied; (b) claim filed or reasonable evidence indicating probable filing of claims; (c) failure of the Contractor to make payments properly to subcontractor or for the material or labor; or (d) a reasonable doubt that the contract can be completed for the balance then unpaid. When the above grounds are removed certificates shall at once be issued for amounts withheld because of them.

THIRD: Said One Story Concrete and Wood Roofed "Iceland Skating Rink" Building at 1430 Del Paso Boulevard, located on a parcel of land in the City of North Sacramento, California, deed of which is shown and on file in the office of the Recorder of Sacramento County, at Sacramento, California.

FOURTH: Should any dispute arise between the Owner and the Contractor respecting the true construction of the drawings and specifications, the interpretation of the Architect shall be conclusive upon the parties, provided, however, that either party may appeal from such decision to a Board of Arbitration. Said Board shall consist of one person named by each of the parties and a third selected by these two. The decision of any two of these shall be binding to all parties.

The Owner and Contractor, for themselves, their successors, executors, administrators and assigns, hereby agree to the full performance of the covenants herein contained.

IN WITNESS WHEREOF they have hereunto set their hands and seals, the day and year first above written.

Walter W. Campbell  
CAMPBELL CONSTRUCTION COMPANY OWNER

By S. O. Mackey  
CONTRACTOR  
S. O. Mackey, holding power of attorney  
for Walter W. Campbell, dba Campbell  
Construction Company

DATED JUN 25 1940

LABOR AND MATERIAL BOND

KNOW ALL MEN BY THESE PRESENTS: that

WHEREAS: Mr. Wm. J. Kerth of 1430 Del Paso Boulevard, North Sacramento, California, the Owner, has awarded to Campbell Construction Company of 800 R Street, Sacramento, California hereinafter designated as the "Principal" a contract for the construction of a One Story Concrete and Wood Roofed "Iceland Skating Rink" Building at 1430 Del Paso Boulevard, North Sacramento, California, and:

WHEREAS, Said Principal is required to furnish a bond in connection with said contract, providing that if said Principal or any of his or its sub-contractors, shall fail to pay for any materials, provisions, provender or other supplies or teams used in, upon, for or about the performance of the work contracted to be done, or for any work or labor done thereon of any kind, the Surety on this bond will pay the same to the extent hereinafter set forth:

NOW, THEREFORE, we the Principal and UNITED STATES GUARANTEE COMPANY, a New York corporation, of New York, N. Y.

as Surety, are held and firmly bound unto the Mr. Wm. J. Kerth hereinafter called the obligee in the penal sum of Seventeen Thousand Seven Hundred Ninety and no/100ths DOLLARS (\$17,790.00)

Lawful Money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if said Principal his or its heirs, executors, administrators, successors, or assigns, shall fail to pay for any materials, provisions, provender or other supplies or teams used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, the Surety on this bond will pay the same, in an amount not exceeding the sum specified in this bond, provided that any and all claims hereunder shall be filed and proceedings, had in connection therewith as required by the provisions of the Act of Legislature of the State of California, designated as the Act of May 22, 1925, Statutes 1925, page 538, and any amendments thereof; provided also, that, in case suit is brought upon this bond, a reasonable attorney's fee shall be awarded by the court to the prevailing party in said suit; said attorney's fee to be fixed as costs in said suit, and to be included in the judgment therein rendered.

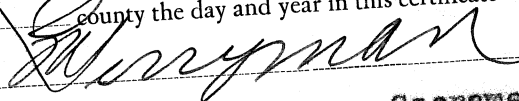
And the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract, or to the work or to the specifications.

STATE OF CALIFORNIA

County of Sacramento } SS.

On this 25th day of June, in the year nineteen hundred and forty, A. D., before me, H. E. Perryman, a Notary Public in and for the said Sacramento County of Sacramento, State of California, residing therein, duly commissioned and sworn, personally appeared Philip R. Hullin and Leland H. Carlton, known to me to be the Attorneys in Fact of the Corporation which executed the within and annexed instrument, and acknowledged to me that such Corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal in said \_\_\_\_\_ county the day and year in this certificate first above written.



Notary Public in and for the \_\_\_\_\_ County of Sacramento, State of California

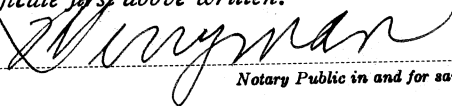
My Commission expires March 3rd, 1941

State of California,

County of Sacramento } ss.

On this 25th day of June A. D. 1940 before me, H. E. Perryman a Notary Public in and for the said County and State, residing therein, duly commissioned and sworn, personally appeared S. O. Mackey, holding power of attorney for Walter W. Campbell, doing business as Campbell Construction Company

known to me to be the person whose name is subscribed to the within Instrument, and acknowledged to me that he executed the same. In Witness Whereof, I have hereunto set my hand and affixed my official seal the day and year in this Certificate first above written.



Notary Public in and for said County and State of California.

IN WITNESS WHEREOF Three (3) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety above named, on the 25th day of June, 1940.

CAMPBELL CONSTRUCTION COMPANY

Principal

By J. O. Mackey  
~~J. O. Mackey, holding power of attorney  
for Walter W. Campbell, dba Campbell  
Construction Company~~  
UNITED STATES GUARANTEE COMPANY

Surety

By Philip R. Hullin  
~~Philip R. Hullin, Attorney-in-fact~~

By Leland H. Carlton  
~~Leland H. Carlton, Attorney-in-fact~~

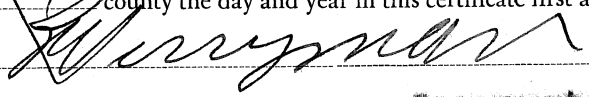
STATE OF CALIFORNIA

County of Sacramento } SS.

On this 25th day of June, in the year nineteen hundred and forty, A. D., before me, H. E. Perryman, a Notary Public in and for the said Sacramento County of Sacramento, State of California, residing therein, duly commissioned and sworn, personally appeared

Philip R. Mullin and Leland H. Carlton, known to me to be the Attorneys in Fact of the Corporation which executed the within and annexed instrument, and acknowledged to me that such Corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal in said \_\_\_\_\_ county the day and year in this certificate first above written.

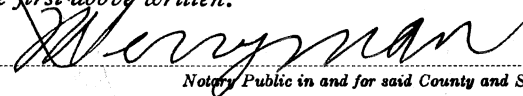


Notary Public in and for the \_\_\_\_\_ County of Sacramento, State of California  
My Commission expires March 3rd, 1941

State of California, }  
County of Sacramento } ss.

On this 25th day of June, A. D. 1940 before me, H. E. Perryman a Notary Public in and for the said County and State, residing therein, duly commissioned and sworn, personally appeared S. O. Mackey, holding power of attorney for Walter W. Campbell, doing business as Campbell Construction Company

known to me to be the person whose name is subscribed to the within Instrument, and acknowledged to me that he executed the same.  
In Witness Whereof, I have hereunto set my hand and affixed my official seal the day and year in this Certificate first above written.



Notary Public in and for said County and State of California.



PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS; that

WHEREAS: Mr. Wm. J. Kerth of 1430 Del Paso Boulevard, North Sacramento, California, the Owner, has awarded to Campbell Construction Company of 800 R Street, Sacramento, California hereinafter designated as the "Principal" a contract for the construction of a One Story Concrete and Wood Roofed "Iceland Skating Rink" Building at 1430 Del Paso Boulevard, North Sacramento, California, and:

WHEREAS, said Principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract.

NOW, THEREFORE, WE, the Principal, and UNITED STATES GUARANTEE COMPANY, a New York corporation, of New York, N. Y. as Surety, are held and firmly bound unto Mr. Wm. J. Kerth hereinafter called the obligee no/100ths in the penal sum of Thirty-five Thousand Five Hundred Eighty and DOLLARS (\$ 35,580.00 ) lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, THAT if the above bounded Principal, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the said contract and any alteration thereof made as therein provided, on his or their part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the Mr. Wm. J. Kerth, 1430 Del Paso Boulevard, North Sacramento, California, the Owner, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and virtue.

And the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

IN WITNESS WHEREOF three (3) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety above named, on the 25th day of June, 1940.

CAMPBELL CONSTRUCTION COMPANY  
Principal

By S. E. Mackey  
S. E. Mackey, holding power of attorney  
for Walter W. Campbell dba Campbell Con-  
struction Company  
By Philip J. Sullivan  
Philip J. Sullivan, Attorney-in-fact  
By David W. Sullivan

ADDENDA #1

ICELAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

\*\*\*

May 14, 1940

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NOTE:

The following Addendas to the Plans and Specifications shall be considered as a part of these documents, and any workmanship and/or material involved shall be as specified in the original specifications or as shown and/or described on the drawings.

ITEM #1:

The 20d nails specified for the roof sheathing shall be changed to 8d common nails.

ITEM #2:

Because of the extreme moisture conditions in this project, steel tubes will not be practical in most locations. The job shall, therefore, have all wiring installed in rigid conduit.

ITEM #3:

"Rough floor" decks over small rooms shall be #4 - 1" x 4" O.P., T & G.

ITEM #4:

The subfloor shall be #2 O.P. sheathing. The roof sheathing or boarding shall be 1" x 8" "V" O.P. rustic stock pattern.

ITEM #5:

Symbol A 4-40 watt fluorescent fixture shall be HF-200 instead of JF-400.

ITEM #6:

There shall be one, only, inside drinking fountain on the south side instead of two as shown on the mechanical drawings.

ITEM #7:

The outside drinking fountain on the north side of the building shall be connected to the adjacent sewer.

ITEM #8:

The existing ice water line is now extended to the approximate location of the outside drinking fountain on north side of building. The line from there into the inside drinking fountain shall be furnished and installed by the plumbing contractor.

ITEM #9:

The size, depth and spread of footings shown on the drawings shall be the basis upon which the contractor shall bid. Any adjustments, if necessary, shall be made after the excavating is started when the exact subsoil conditions can be determined.

ADDENDA #2

ICELAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

\*\*\*

May 15, 1940

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NOTE:

The following Addendas to the Plans and Specifications shall be considered as a part of these documents, and any workmanship and/or material involved shall be as specified in the original specifications or as shown and/or described on the drawings.

ITEM #1:

Linoleum shall be Armstrong, Pabco or equal "Marbel" 1/8" thick material cemented down with a felt base.

ITEM #2:

The sink in restaurant shall not be included in this contract.

ITEM #3:

The lead pan under brine control valve will not be included in this contract, however, the Plumber shall supply a waste and vent, if necessary.

ITEM #4:

Any subfloor or sheathing shall be #2 common S4S boards except roof which will be 1" x 8" or 1" x 10" "V" joint as set forth on Addenda Sheet #1. The "V" joint roof sheathing shall be good, dry stock to prevent shrinkage.

ITEM #5:

The large redwood girders, etc., under the brine pipes shall be "Foundation" grade Redwood and not "Heart Structural" as specified.

ITEM #6:

The large sign to be omitted <sup>(under Alternate #2)</sup> shall be the vertical portion only, which includes the words "Ice Skating." The finials on the top of this sign tower shall be round, if it is built.

ITEM #7:

The coiling door is specified on page 8 of Excavating & Masonry Work, just above "Steel Windows."

ITEM #8:

The steel stack shall be #12 gauge.

ITEM #9:

The dowells in large Redwood girders to concrete piers shall be 5/8" x 1'4".

ADDENDA #3

ICELAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

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May 20, 1940

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NOTE:

The following Addendas to the Plans and Specifications shall be considered as a part of these documents, and any workmanship and/or material involved shall be as specified in the original specifications or as shown and/or described on the drawings.

ITEM #1:

The rear entrance at the N. E. corner of the rink shall be changed as follows:

The floor of this area shall be changed from concrete to wood joist. The floor shall be 1" x 4" T & G, V.G. #4 and shall be level with the rink floor.

The coiling metal door shall be omitted and a pair of 8' x 8' swing out wood metal covered doors complete with hinges, panic bolts, etc., complete.

Install a 6" x 4" x 3/8" "L" threshold at the outside door, set secure and solid.

The open curved rail enclosing the N. E. corner shall remain but a partition 8'0" high shall be erected immediately back of it, with joist, ceiling and floor over, similar to the other enclosed corners.

The gates in the rail shall remain and a pair of hinged half doors 8' wide and 6'8" high shall be installed over the gates to swing out into entrance.

Omit the cover to the slush pit. Install a 3' 5-5/8" x 3'8" 1 vent type steel window in the rear wall of the store space which is being enclosed.

Furnish and install in under floor area of this corner 4 - 12" x 12" T.C. vents with screen back.

ITEM #2:

Omit the 2" pipe standards in all sections of the rail around the rink area, except the free standing portions. All other rail sections shall be built out from the walls.

ITEM #3:

Entrance:

Provide Fluorescent lighting on each side of entrance door at top

of block glass - similar to Fixture Type T, each side to have 20 watt lamp. Install one additional circuit to glass panel above entrance from Panel B. The two fluorescent fixtures at each side of entrance shall be on separate switch.

ITEM #4:

Sign Outlet:

The plans show a 1" conduit with 3 #8 R.C. wires to the sign outlets, this shall be changed to 3/4" conduit with 5 #12 wires or one three wire circuit and one two wire circuit.

ITEM #5:

Panel B:

Shall be changed to Type NTP 320 L or equal.

ITEM #6:

Rear Corner Room:

Provide one inside wall light with switch, one outside wall light over door with switch.

Provide twin outlet in room on east side of room.

Inside light shall have a Hubbell #3923 receptacle or equal.

Outside light shall be Benjamin #L-1824 mounted on Benjamin #5029 wall fitting.

ITEM #7:

Main Switch Board:

The main switch board shall be located in the First Aid Room instead of where shown and shall be installed flush in the south wall, the General Contractor will furr this wall out and provide panel space and doors.

ITEM #8:

There shall be two additional spot light outlets, one at floor over restaurant and one over the N.E. entrance. These shall be wired in with the spotlight circuit now shown on the drawings. Each spot light outlet shall be wired for 25 KW. This will leave the wiring as was shown on the original drawings.

ITEM #9:

The entire front area now shown to be concrete on a dirt fill shall be changed to a wood floor on joist, girders and piers.

The finish floor, where shown to be linoleum, shall be changed to 2nd grade maple.

ITEM #10:

The linoleum floor in control booth shall be omitted.

ITEM #11:

The entire ceilings of rink shall have the oil paint changed to a casine base paint, "Tex-o-lite" or equal, applied with a spray gun.

ITEM #12:

The steps of all bleachers shall be changed from 2nd grade maple to #2 V.G., O.P., T & G flooring.

ITEM #13:

Omit the concrete piers and large 8" x 10" redwood girders and install continuous 10" x 8" concrete walls with 2-1/2" rounds reinforcing bars and a 2" x 4" redwood pipe supporting sill, anchored to wall with 1/2" bolts @ 6'0" o.c. Countersink nuts to flush with top of sills.

ITEM #14:

*1/2" thick layer of*  
The 1" fiberboard specified for the roof insulation is changed to a 13# density very light colored "V" jointed board applied under the purlins between the arch ribbed trusses.

The edges of the fiberboard shall be "V"ed and grooved to interlock. The roof boarding shall be changed from dry selected "V" joint shiplap material to #2 common S4S 1" x 8" sheathing.

Omit all painting of ceiling except the plain exposed ribs of the trusses. They shall be painted two good coats of heavy pigment oil wall paint "Double Cover" or equal.

*1/2" thick layer of*  
In addition to the above, the Contractor shall furnish and install a 13# density roof insulation over the entire roof area on the roof boards.

ICELAND SKATING RINK  
1430 DEL PASO BLVD  
NORTH SACRAMENTO CALIF

owner

CONTRACTOR

JUN 22 1940  
DATE

Contract Construction Co.

*J. C. Mackay*

BID FORM

ICELAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

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Bids will be received until 3:30 P.M., May 16, 1940 at the office of Chas. F. Dean, Architect, Room 1407 California State Life Building, Sacramento, California.

TO MR. WM. J. KERTH:  
1430 Del Paso Boulevard, North Sacramento, California

Dear Sir:

The undersigned hereby proposes and agrees to furnish any and all required labor, materials, transportation and services for the construction of a concrete and wood Iceland Skating Rink in strict conformity with the plans, specifications and other contract documents on file with the Owner, Mr. Wm. J. Kerth, 1430 Del Paso Boulevard, North Sacramento, California, or with Chas. F. Dean, 1407 California State Life Building, Sacramento, California, for the sum of Thirty-six Thousand Nine Hundred

Seventy-seven - - - - - ( 36977.00 ) DOLLARS

ALTERNATE #1:

The entire Lamella and other roofs shall be covered with 1" thick low density roof insulation fiberboard under roofing. This fiberboard shall be nailed 8" o.c. with 8d galv. box nails, for which the Contractor shall add the sum of

Sevent Hundred Sixty - - - - - ( 760.00 ) DOLLARS

ALTERNATE #2:

The large vertical sign shall be omitted, together with the steel tower supporting it for which the Contractor shall deduct the sum of

Seven Hundred Twenty-five - - - - - ( 725.00 ) DOLLARS

ALTERNATE #3:

The fireplace and chimney shall be omitted, for which the Contractor shall deduct the sum of

Five Hundred - - - - - ( 500.00 ) DOLLARS

ALTERNATE #4:

This alternate calls for the substitution of "Arch Rib" Deluxe trusses as designed by the Arch Rib Truss Co. Ltd. in place of the Lamella roof as shown on the drawings.

All wall construction, footings, roofing, sheathing, gutters, lead-

ers, etc., shall remain as shown on the original drawings.

The top concrete beam section shall be changed as shown on the accompanying drawing.

The bid from the truss subcontractor will include the furnishing and erecting of all ribs, which will be completely housed in a plywood housing in accordance with the "Deluxe" detail. This subcontractor will also include the furnishing and setting in place of all purlins, steel clips, tie rods, bracing, etc. The General Contractor shall, however, set the anchor bolts in the concrete work.

For this change the Contractor shall ~~add or~~ deduct the sum of

One Thousand Six Hundred - - - - - (1600.00) DOLLARS

UNIT PRICES:

The contractor shall quote on unit prices for the following materials installed or deducted complete whichever the case may be.

Concrete per cubic foot in place	<u>Forty</u>	CENTS
Forms per contact foot in place	<u>Twenty</u>	CENTS
Reinforcing steel per pound in place	<u>Five</u>	CENTS
Excavating per cubic yard	<u>One</u>	DOLLARS <u>Fifty</u> CENTS

If awarded the contract, the undersigned hereby agrees to sign said contract and furnish the necessary bonds within 5 days after notice of the award of said contract.

The undersigned has examined the location of the proposed work and is familiar with the plans, specifications and other contract documents and the local conditions at the place where the work is to be done.

The undersigned has checked carefully all the above figures and understands that the Owner, Mr. Wm. J. Kerth of 1430 Del Paso Boulevard, North Sacramento, California, will not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

Enclosed find ~~bidder's bond~~, certified check ~~xxxxx~~  
No. \_\_\_\_\_ of the \_\_\_\_\_ Bank of America \_\_\_\_\_ Bank,  
for \$ 4000.00.

CAMPBELL CONSTRUCTION CO.

CONTRACTOR A. O. Mackey

ADDRESS 800 R Street

Sacramento, California

Dated May 16, 1940/



SECTION 1

GENERAL CONDITIONS

ICE LAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

\*\*\*

SPECIAL REQUIREMENTS AND CONDITIONS:

Address of Bids:

Bids must be delivered to Wm. J. Kerth, at 1434 Del Paso Boulevard North Sacramento, California, not later than 3.30 ~~5:00~~ P.M. MAY 16 1940. They must be sealed and plainly marked on the exterior of the envelope: Iceland Skating Rink for Mr. Wm. J. Kerth, 1430 Del Paso Boulevard, North Sacramento, California.

Time of Work:

The time limit allowed for the completion of the work will be ninety (90) calendar days. Each bidder must use this figure in filling out proposal and same will be incorporated in contract later.

The Contractor must agree to pay the Owner the sum of \$15.00 per day as a rental on the premises for each working day over and above the time that the work remains incompleated after proper allowances are made for extensions of time that may have been granted.

Work Included:

The work of the Contractor comprises of: General Conditions. Excavating and Masonry Work, Carpentry, Sheet Metal, Roofing, Painting, Electrical, and Plumbing Work as specified under section captions of the similar titles and as shown on the drawings.

Location of Site:

The building, as shown on the plot plan, is situated at 1430 Del Paso Boulevard, Owned by Mr. Wm. J. Kerth, North Sacramento, California.

Contract Documents:

The drawings entitled "Iceland Skating Rink" for Mr. Wm. J. Kerth North Sacramento, California, consisting of Architectural, Mechanical sheet, together with specifications, Section 1 to VII inclusive, and the Agreement, form of the contract documents together with the Bond Forms.

NOTARIAL

JUN 25 1940

Cambridge Contracting Co  
J. S. Wood

**Alternate Proposals:**

Contractors shall submit separate proposals in spaces provided in the proposal form for each alternate requested stating the amount which he agrees shall be added or deducted from the main or normal bid if the work outlined in the Alternate is installed in lieu of work shown and specified.

The owner, Mr. Wm. J. Kerth, reserves the right to consider all alternates requested in making the award of the contracts.

**DEFINITIONS:**

The following words or variations thereof as used in these documents shall have the meanings as indicated: "Owner"- Mr. Wm. J. Kerth. "Contractor"- party or parties contracting directly with the Owner to perform and be responsible for all of the work. "Sub-contractors" are only agents of the contractor. "Superintendent" or "Inspectors" personal representative of the Owner of the work. "Work" - material incorporated on this construction. "called for," "Shown," "Indicated," - as called for, shown and indicated in the specification or drawings. "Directed," as directed by the Architect, "Approved," "Proper," "Equal," "Required," "Satisfactory," "Suitable." "Necessary," as considered, approved, proper, equal, required, satisfactory, suitable or necessary in the judgment of the Architect.

**CONDITION OF SITE:**

Before bidding, contractors shall examine the site or have full knowledge of all facilities and difficulties affecting the work which may not be set forth herein. No allowance shall be made because of lack of such examination or knowledge.

**BIDS:**

Bids must be submitted on proposal form supplied by the Architect properly and fully filled out. The Owner reserves the right to reject any and all bids and to waive any informality in any bid in receiving same.

**BIDDER'S CHECK:**

Each proposal must be accompanied by a certified check, cashier's check, or bidder's bond made payable to the Owner in the amount of 10% of the proposal submitted. Such certified check, cashier's check, or bidder's bond will act as a guarantee that the bidder, if successful, will enter into a contract with the Owner and file such bonds as are hereinafter mentioned.

**CONTRACT AND BONDS:**

The bidder to whom the contract is awarded shall within five days after being notified of the acceptance of his bid enter into a contract with the Owner in accordance with his bid for the work contemplated, said contract to contain the stipulations required by Federal, State, and/or other laws.

The contractor shall, before commencing work, file two bonds with the owner, each bond to be accompanied by an original duplicate thereof. These bonds shall be issued by a Surety Company, satisfactory to the Owner; they shall be maintained

during the entire life of the contract at the expense of the Contractor. One bond shall be in the amount of 100% of the contract price and all conditions and covenants therein contained. The second bond shall be in the amount of 50% of the contract price and shall guarantee the payment in full of all claims for labor and material, according to law. Said contract and the bonds shall be approved by the Owner before any work thereunder shall be commenced.

**TIME OF WORK AND DAMAGES:**

The Architect will designate the starting day of the contract when the Contractor shall immediately begin and diligently prosecute the work to completion. The Contractor obligates himself to make his work complete and satisfactory on or before the date to be determined from the number of working days stated in the agreement, plus such days as may be properly allowed. If the contract is not completed on time, the Contractor agrees to forfeit to the Owner a sum not exceeding Fifteen (\$15.00) Dollars per day as will be stated in the agreement for each day during which the work remains uncompleted. This forfeiture shall not be considered as a penalty, but as liquidated damage which the owner would suffer on account of the work not being completed.

Days lost due to strikes, riots, stress of weather or other extraordinary circumstances beyond control of the Contractor may be added to date for starting or completion of the work, provided a written request approved by the Owner.

**WORKING DAY AND WAGES:**

Shall be in accordance to law as set forth in the schedule of Prevailing wages and working hours incorporated in the Notice to Contractors, a copy of which is attached hereto.

**WORKMANSHIP AND LABOR:**

The Contractor shall retain a competent superintendent constantly on the construction. All labor must be especially skilled for each kind of work and must be thorough, and first-class in all respects regardless of the kind or quality of material.

Any person the Architect may deem incompetent or disorderly shall be promptly discharged and not reemployed.

No alien shall be employed on the erection work of any public building in the State of California in accordance with Act 6430 of the General Laws of the Statutes of California for 1931, Page 913.

**CHANGES AND SUPPLEMENTARY CONTRACTS:**

No change or deviation from plans and specifications shall be made unless each change be authorized by the Architect by

standard or written Change Order properly signed and approved by the Division of Architecture.

Unit prices on all classes of work as specified or required shall be submitted. Additions to, or deductions from the contract price shall be based on these unit prices.

Any change in the work shall be full according to original drawings and specifications as such may be applied without conflict to conditions set forth by the Change Order.

**SUB-CONTRACTS:**

Assignments of interests in or sub-letting the whole or any part of the contract shall be made only upon the Architect's and Owner's approval of a written request by the Contractor.

The Owner will deal only with the Contractor who shall be responsible for the proper execution of the whole work.

No sub-contractor shall interfere with the work of others, and if in the judgment of the Architect, there is unnecessary interference, the Contractor shall see that he adjusts and arranges to carry on his work as directed. He shall also make adjustments and arrangements as directed, should the Architect deem the progress unnecessarily delayed by him.

The specifications are in "Sections" divided and arranged according to various trades. No obligation is inferred to sub-let the work as divided, nor is the Contractor relieved of fully performing and completing any part of the work.

**REGULATIONS AND PROTECTION:**

The Contractor shall keep informed of and observe and comply with and cause his agents and employees to observe and comply with all prevailing Federal, State and Municipal laws, ordinances, rules and regulations, which in any way affect the conduct of the work of this contract. If any conflict arises between provisions of the plans and specifications and any such law above referred to, then the Contractor shall protect and indemnify the Architect against any claim or liability arising from or based on the violation of any such laws, ordinances, rules or regulations, whether by himself, or his agents or employees. The Contractor shall be responsible for, and provide and maintain all proper temporary walks, roads, guards, railings, lights, and warning signs and take all precautions at all times to avoid injury to any persons or any property, and upon completion of the work or at proper time, as directed, replace premises and adjacent property in the proper condition. Watchmen, when required, shall be employed by the Contractor.

No signs, other than warning, or advertising of any description will be permitted in or about the work except by Order of the Architect.

Strict prohibition against committing nuisance in or about the

work must be maintained. Convenience shall be provided for employees and maintained in sanitary conditions.

CODE RULES AND SAFETY ORDERS:

Applyin to heating, ventilating, plumbing and electrical work, etc., all work and materials shall be in full accordance with the latest rules of the National Board of Fire Underwriters, any local or state ordinances, the State of California Industrial Accident Commission's safety orders and with any prevailing rules and regulations pertaining to adequate protection and/or guarding of any moving parts or otherwise hazardous locations.

Insurance:

The General Contractor shall provide, pay for, and maintain during the entire duration of the work, the following insurance:

1. Contractor's Public Liability for \$25,000 and \$50,000 including a \$1,000 Property Damage Coverage.
2. Contractor's Protective Liability Policy for \$25,000 and \$50,000, including a \$1,000 Property Damages.
3. Owner's Protective Liability Policy for \$25,000 and \$50,000, including a \$1,000 Property Damage.
4. Workman's Compensation Insurance as required by State law, for protection of himself and the Owner.
5. Fire Insurance covering loss by fire, this insurance shall be placed in a company satisfactory to the Owner. The policy shall contain the "Extended Coverage Endorsement," be written on a "Builder's Risk Form" and contain the 100% average clause.

A copy of each policy must be delivered to the Owner or their representative for examination at the time of signing the contract or immediately thereafter. A copy of a certificate of insurance for each policy must be given the Owner showing: 1st, amount of coverage, 2nd, the date of expiration; 3rd, the number of the policy and other necessary designating information; 4th, the insurance agent and the Contractor shall agree that no policy shall be reduced or cancelled without the Owner first having received a five days' written notice.

The General Contractor shall be responsible for ascertaining and giving evidence thereof in an acceptable manner to the Architect that every sub-contractor on this project carries Public Liability Insurance for not less than \$10,000 and \$20,000 against this project or a blanket policy of not less than \$20,000 and \$40,000 for his business, together with a Property Damage Policy of not less than \$1,000.

**FAILURE OF CONTRACTOR:**

Should the Contractor at any time refuse, neglect or be unable from any cause to properly carry on any of the work, it shall be lawful for the Owner, after giving 5 days written notice to the Contractor, to complete the work and to deduct the cost thereof from the sum otherwise then due the Contractor, or if if the costs exceed said sum, the Contractor shall pay the excess amount to the Owner and recourse shall immediately be had to the Bonds, thereof, and the Contractor agrees to waive any claims.

**DRAWINGS AND SPECIFICATIONS:**

**Interpretation:**

Figured dimensions on the drawings shall govern, by work not dimensioned shall be as directed. Work not particularly shown or specified, or as directed. Full size details shall take precedence over scale drawings as to shape and details of construction, and specifications shall govern as to materials; scale drawings, full size details and specifications are intended to agree but should any discrepancy or apparent error occur in the work of others affecting his work, the contractor shall notify the Architect at once, if the Contractor proceeds with the work affected without instruction from the Architect, he shall make good any resultant damage, or defect.

All misunderstandings of drawings and specifications shall be clarified by the Architect, whose decisions shall be final.

All work called for by the drawings and not mentioned in the specifications, or vice versa, is to be furnished as though fully set forth by both. Where not especially stated otherwise, all work and material necessary for each unit of construction even though only briefly mentioned or indicated, shall be furnished and installed fully and completely as a part of the contract.

Lists, rules, and regulations referred to are recognized printed standards and shall be considered as one and a part of these specifications within the limits specified.

All drawings and specifications are the Architect's property and must be returned when ordered.

**Details:**

The Architect may furnish additional details to more fully explain the work and same shall be considered part of the contract.

Any work done by the Contractor before receipt of such details, or not in accordance with same, shall be removed and replaced, or adjusted at his own expense. Should any details be, in the

opinion of the Contractor, more elaborate than warranted, written notice thereof must be given the Architect within 5 days of receipt of same. The Architect will then consider the claim, and if justified, the drawings will be amended or the extra work authorized. No receipt of such notice relieves the Architect of any claim.

**Shop and Diagram Drawings:**

For structural steel, reinforcing steel, and iron work the Contractor shall submit 4 copies of blue prints of shop or diagram drawings. For other work requiring shop drawings, he shall submit 3 copies. The approval and corrections of the Architect will cover the general layout, only, and will not relieve the Contractor for errors or failure to indicate his work to conform to the drawings of the Architect and conditions existing in the work. The diagrams or drawings must show completely the work to be done, and any errors or omissions shall be made good by the Contractor at his own expense even though erected in place.

**CONDUCT OF WORK:**

The Contractor shall observe that the Architect reserves the right to do other work in connection with the project by Contractor or otherwise and he shall at all times conduct his work as to impose no hardship on the Architect or others engaged on the work. He shall adjust, correct and coordinate his work and the work of others, so that no discrepancies shall result in the whole work.

The contractor shall provide at his own cost and risk, all tools, machinery, scaffolding, false work, forms and centers, for the execution of the work. Equipment shall be adequate and as approved.

The Contractor shall obtain all necessary measurements from the work and shall check dimensions, levels and construction and shall lay out and supervise the construction for correctness of all of which he shall be responsible. Where work of one trade joints or is on the other work, there will be no discrepancy when same is completed. In engaging work with other materials, marring or damaging same shall be made good without expense to the Owner. The Contractor must anticipate relation of all part parts of the work and at the proper time furnish and set anchorage, blocking, or bedding as required. Anchorage and blocking necessary for each trade shall be a part of same, except where stated otherwise.

**MATERIALS:**

Materials shall be new and of quality equal to that specified; when not specifically specified, materials shall be the best of its kind or class. The Contractor shall, if required, submit satisfactory evidence as to the kind and quality of material.

Price, fitness and quality being equal, preference shall be given to local dealers and the products which they carry.

Where special makes or brands are called for they are mentioned as a standard. Others of equal quality may be used, provided approval is first obtained in writing from the Architect. Unless substitutions of makes or brands are requested, no deviation from the specifications will be allowed. Substitutions of makes and brands shall be requested or offered for investigation in ample time, as no delay or extra time will be allowed on account thereof. Request for said substitutions will only be considered when offered by the Contractor.

All material shall be delivered as to insure speedy and uninterrupted progress of the work. Same shall be stored so as to cause no obstruction and so as to prevent overloading of any portion of the structure and the Contractor shall be entirely responsible for the damage or loss by weather or other cause.

**Samples and Tests:**

Materials or work requiring tests are so specified. Other material may be tested but only at the discretion of the Architect. All samples for testing will be taken by the Superintendent from material delivered, unless otherwise directed, test will be under the supervision of, as directed by, and at such point as may be convenient to the Architect.

Material requiring tests shall be delivered in ample time before intended use, to allow for testing and none may be used before receipt of approval. All approvals or decisions will be rendered in writing. Samples that are of value after testing will remain ~~of~~ the property of the Contractor.

**REJECTION:**

Should any portion of the work be done, or any material be delivered, which due to any cause is not in accordance with the specifications or drawings, it will be rejected and the Contractor shall immediately make same satisfactory to the Architect.

Any material which are condemned shall immediately be removed from the premises.

**PRESERVATION AND CLEANING:**

The Contractor shall properly preserve and clean the work as it progresses. At intervals, or when directed, rubbish shall be collected and removed, and at completion, the whole work shall be cleaned and all tools, false work, equipment, and rubbish shall be removed from the sites, all being left in clean and proper condition as directed.

**ACCEPTANCE:**

The work will be accepted in writing when the whole shall have been completed and satisfactory to the architect.



In judging the work, no allowance for deviations from the original plans and specifications will be made unless already approved in writing at proper times and in manner as called for herein.

Should it become necessary due to developed conditions to occupy any portion of the building before contract is completed same shall not constitute acceptance.

**PAYMENTS:**

On the first and not later than the 15th of each calendar month, the Contractor may present to the Architect an itemized statement showing the amount of labor and material incorporated in the building.

Payments shall be based on the 90% of the value of the labor and material completed and in place.

When the work of the contract is fully performed and finished, and accepted, the Owner after the receipt of the guarantees required, will pay the total then due the contractor, less the 10% of the total contract sum. Thirty-five days after acceptance and Notice of Completion has been duly recorded, the ten (10%) per cent retained balance will be paid.

**Guarantees:**

All guarantees shall be properly and fully executed on the standard form of the Architect, copy of which follows: Besides guarantees required elsewhere, contractor shall guarantee the work in general for 1 year. Where the detail specifications call for guarantees and no specified time is mentioned, the General Guarantee shall cover the special feature called for. All guarantees must be submitted to the Architect before an acceptance estimate will be passed for payment.

GUARANTEE FOR \_\_\_\_\_.

We hereby guarantee that the \_\_\_\_\_ which we have installed in the \_\_\_\_\_ at \_\_\_\_\_ for \_\_\_\_\_ years, is in accordance with the guarantee required in the specifications. We agree to repair or replace any or all such work, together with all or any other work which may be displaced in so doing, that may be proven effective in workmanship or material within the period from date of acceptance, without expense whatsoever to the Owner, ordinary wear and tear and unusual neglect excepted.

In the event of our failure to comply with the above mentioned conditions within a reasonable time after being notified in writing, we, collectively or separately, do hereby authorize said Owner to proceed to have the defects repaired and made good at our expense and will pay the costs and damages therefore immediately upon demand.

**SECTION II**

**EXCAVATION AND MASONRY WORK**

**ICELAND SKATING RINK**

**FOR**

**MR. WM. J. KERTH**

**1430 DEL PASO BOULEVARD**

**NORTH SACRAMENTO, CALIFORNIA**

**\*\*\***

**NOTE:**

Section I is part of the specifications covering this work and contains important conditions in connection with same.

**IN GENERAL:**

This Contractor shall visit the site and observe the conditions thereat.

**RESPONSIBILITY AND COOPERATION:**

This Contractor shall consult architectural, engineering and mechanical plans and check them with his work as he will be held responsible for conditions shown on one and not indicated on the other that may affect his contract.

This Contractor shall also cooperate with all other contractors on the work and each contractor is to arrange to carry on his work in such a manner that the other contractors will not be unnecessarily delayed or hindered in the progress of their work.

**NOTE:**

The Contractor shall take special care to examine the lot as it is uneven and rough.

**SCOPE OF WORK:**

The work of this section includes: Preliminary and Temporary excavation, filling and grading, finished grading; all concrete masonry work such as piers, walls, footings, floors, walks, columns, beams, drip stones, platforms, forms, reinforcing, etc., as shown on the drawings or as called for and necessary to complete the building and grounds as shown on the drawings.

IT IS THE PURPOSE OF THIS CONTRACT THAT IT SHALL BE COMPLETE IN ITSELF. ANY ITEM WHATSOEVER OF THIS NATURE THAT IS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS AND NOT EXPRESSLY DETAILED OR SET FORTH AS PART OF THIS BRANCH OF THE WORK BUT WHICH IS ORDINARILY CONSIDERED AS PART OF THIS BRANCH, SHALL BE INSTALLED BY THIS CONTRACTOR--UNLESS DEFINITELY SPECIFIED IN SOME OTHER BRANCH OF THE WORK.

Excavation and filling for plumbing and other pipes which are below the surface of the ground will be done by others. The grades shown for footings shall be used in computing the quantities

of excavating and concrete work. Changes may be necessary to suit encountered conditions in order to obtain a firm bearing but no changes shall be made until directed by the Owner.

**Preliminary and Temporary Work:**

Permits for the use of the streets if any is required, must be obtained from the Street Department of the City of North Sacramento, California. All the contractors' activities shall be within these confines.

The Contractor shall be entirely responsible for all damage to streets, sidewalks, trees, or any other property, due to excavating, hauling or other causes attributable to this work and all such damaged portions shall be repaired when and as directed, to the entire satisfaction of the City of North Sacramento.

**Preparation of Site:**

All debris and obstructions of all kinds on the site shall be cleared away and entirely removed before proceeding with other work. The lot shall be neatly leveled off.

All pipes, conduits, etc., which may be encountered in excavation and which require moving shall be moved by this contractor as directed by the Owner. Any such lines which may be of no service shall be removed by the Contractor. All the removed material shall be hauled from site and the premises unless otherwise directed.

**Excavating:**

The Contractor shall take this site as he finds it and excavate for all excavated areas shown on the drawings and for all footings, piers, walls, slabs, steps, areas, and other spaces shown to the lines and levels indicated on the drawings.

Should any footings occur adjacent to higher footings, the contractor shall exercise every precaution to avoid damage to the soil under such higher footings and shall assume full responsibility for and make good such damage by installing the necessary masonry for any such additional work.

All excavation shall be sufficient size to provide ample room for construction of forms, shoring, and bulkheading as required.

Water, if any should be encountered in the excavation, shall be kept pumped out and drained away until the concrete work is completed. No water shall remain in or around any part of the work.

**Filling and Grading:**

After the walls are stripped of their forms, but not before directed to do so, backfill around the walls and fill in all spaces required under walk up to finish grade line.

All filling required under walks or concrete floor slabs shall be placed in layers not exceeding 12" puddling and tamping and allowing ample time for settlement. The final 4" layer shall be of sand.

**EXPOSED CONCRETE WALLS:**

Exterior concrete walls of front and 15'0" return on the south side and a 30'0" return on the north side, together with the exposed interior walls shall have plywood forms with "v" joints as shown and detailed.

All back filling, and filling in of soil trenches shall be done in not over 12" layers, each layer being well bedded and tamped.

Filling shall be brought up evenly and at the same time on both sides of walks and all around piers where shown to be encompassed by earth.

The entire area around this building shall be rough graded, level, and with grades shown on the elevations. All surplus earth, if any, shall be hauled away.

The entire area of rink floor shall be filled as shown with good clean sand by this Contractor. This sand shall be brought up to the level shown and in a manner as directed by the Owner.

Concrete work shall include all concrete foundations, floors, dripstones, concrete walks, steps, etc.

**Forms:**

All concrete shall have tight wood forms except under side of footings and slabs that are shown to be directly on earth and side of footings at which the earth is in an approved solid condition.

Forms shall be of lumber surfaced on one side and sized on two edges. Bracing shall be of material of sufficient size and shall be spaced at intervals so as to prevent all bulging of forms. All shall be securely tied together with steel wire.

No forms shall be removed until so directed by the Architect and which shall not be less than 48 hours.

**REINFORCING STEEL:**

All beams and columns, also anchorage bars into brick, shall be furnished and installed as shown on the drawings. Reinforcing steel shall conform to the requirements for structural grade steel of the Standard Specifications for Billet Steel Reinforcement Bars (Serial Designation A15-30) of the American Society for Testing Materials or as latest amended. Bars manufactured from re-rolled steel shall be rejected.

**Cleaning, Bending, and Placing:**

Metal reinforcement before being placed shall be free from rust, scale or other coatings that will destroy or reduce the bond between steel and concrete. Reinforcement shall be formed to the dimension indicated on the plans. Bands shall be made cold around a pin having a diameter of six or more times the least dimension of the bar.

Metal reinforcement shall be accurately placed and secured; all shall be supported by metal chairs, spacers, hangers, etc., which must be approved by the Owner before being installed.

All spacing and laps of steel shall be such as to transfer the stress between bars by bend and shear.

**CONCRETE MATERIALS:**

The materials to be used in concrete shall be subject to rigid inspection and tests and if found defective or not as specified, shall be rejected. All rejected materials shall be immediately removed from the premises by the Contractor. The inspection and tests of the materials shall be made as directed by the Owner. All materials shall be of such quality and sizes and so combined that the strongest and most dense concrete may be obtained.

**PORTLAND CEMENT:**

Portland Cement shall conform to the "Standard Specifications" for Portland Cement (Serial Designation C9-30) of the American Society for Testing Materials or the latest revision thereto for Portland Cement.

**Sand:**

Sand shall be clean, sharp, screened and washed, concrete sand, with sizes grading evenly up to 1/4" particles.

**Crushed Rock and Gravel:**

A good clean washed and well shaped graded crushed rock grading up to 1" pieces, or a washed and graded gravel of same sizes shall be used. This material shall be free from an injurious amount of particles that are unfit for good concrete.

**Proportions of Concrete:**

Materials for concrete shall be mixed in the proportions of 6 sacks of cement to each cubic yard of concrete in place. The first batch through the mixer each day shall be of 1 part cement to 4 parts aggregate. The exact proportions of the aggregate will be determined by the Architect but will be approximately 1/3 sand to 2/3 crushed rock or gravel. No concrete shall be placed that has a greater slump than 7". The consistency of all concrete shall be such that all the particles will be held in suspension until deposited in forms. The water cement ratio shall not be greater than 7 1/2 gallons of water to each sack of cement with the moisture in the aggregate included.

**Mixing and Placing:**

All concrete shall be mixed in a batch mixer approved by the Architect and producing a uniform consistency and color. The mass must be mixed until there is a uniform distribution of the materials throughout, continuing for the minimum time of 2 minutes after all the ingredients are assembled in the mixer.

Concrete shall be placed immediately after mixing, and shall be thoroughly tamped so that all voids may be filled. All shall be done as directed.

As soon as possible after floors are poured, they shall be finished as specified below.

**Water:**

Shall be clean, free from vegetable matter, oils, acids, or strong alkalis. This Contractor shall provide all equipment, piping, etc., necessary for furnishing an ample supply of water for all purposes of this construction and shall maintain same until completion.

**Curring:**

All concrete shall be thoroughly wetted night and morning or more often if required, for 10 days after being placed, and all slabs shall be covered with 1" of wet clean sand as shown as hardened sufficiently and kept continually wet, all as directed.

**Changes:**

In case the Owner should find that the soil at the depth shown on drawings for bottoms of footings is not of sufficient bearing value, or that satisfactory bearing value can be had at higher level, the footings or walls shall be made as much more or less as may be necessary to secure proper foundations, and a proper allowance will be made either to the Owner or Contractor as the case may be.

**CEMENT FINISH:**

All cement finish on floors, inclines, and other cement finish called for shall be 1/2" thick composed of 1 part cement and 1 1/2 parts of an approved sand. All finish shall be thoroughly machine mixed and immediately applied and trowelled hard and smooth throughout except as otherwise specified below, and marked as indicated and directed. The finish shall be applied on green concrete within one hour after concrete is laid. An integral top finish may be used if a first class job can be obtained.

**ANCHORS:**

All sills or other built-in-work shall be anchored every 4'0" with 1/2" x 12" bolts.

**CLEANING: (concrete)**

At a time directed, when building is practically complete, all concrete floors, steps, walls, etc., shall be carefully and thoroughly cleaned of all stains, mortar or other foreign substances in a manner satisfactory to the Architect.

All other exposed concrete surfaces such as walls, ceilings, etc., shall be brushed clean of all loose scale or projecting particles to present as clean, neat and smooth appearance as possible. All the wires or other metal construction work shall be cut off flush with concrete.

**GLASS BLOCKS:**

Shall be installed in openings as shown on the drawings.

**In General:**

This Contractor shall furnish all labor and materials to install all glass blocks where shown on the drawings or specified here in under. This shall include the furnishing and installing of all expansion joint strips, Oakum packing, felts, wall ties, wall anchors, calking, asphalt emulsion, and other labor and materials necessary for a complete installation. All this work shall be installed in strict accordance with the manufacturer's written directions. The entire installation shall be arranged for the natural expansion and construction of the material and every precaution shall be taken to guard against damage resulting therefrom. All shall be water and weather tight.

The Contractor will not, however, be required to prepare the openings or shall he include the sheet metal frames, or the installation of these frames, or steel stiffeners except as specified hereafter.

**Material:**

All blocks shall be Pittsburg Corning Company's "Argus" LX-75 (with Fiber glass screen) or equal unity shall be "all glass" formed of sections fused together at a high temperature. Edges shall be so formed as to provide a "key lock" mortar joint. All blocks shall be coated on the edges with a grit-bearing translucent, water and alkaline-resistant plastic material. Sizes of units shall be as shown.

**Panels:**

Shall be the shape, areas, and dimensions with the curved areas constructed as shown on the elevation. Easle type of Paull shall be provided with the clearances, expansion joints, vertical supports, horizontal ties, etc., as set forth for the various cases in the manufacturer's catalogues.

**Asphalt Emulsion:**

Shall be of a quality and of a consistency as directed by the manufacturer.

**Wall Ties:**

Shall be either double steel galvanized wire mesh formed of two parallel #9 wires with electric welded #12 cross wires spaced not over 3" apart or furnish and install #20 guage stock perforated strips in joint, these strips shall be not less than 1 3/4" wide. These strips shall be set in joints not over 24" apart measured vertically or 48" apart measured horizontally. The heavy stiffener joints shall be spaced as shown on drawings.

**Wall Anchors:**

Should the Contractor use the wire ties, he shall provide wall anchors of the #20G1 perforated strips 24" long at each horizontal tie. These anchors shall be secured at joints and stiffening bars in a substantial manner.

**Mortar:**

Shall be one part Portland Cement one part slated lime putty to four parts of sand mixed to a consistency as stiff as will permit good working but shall be dryer than for ordinary clay brick work. Mortar for exterior exposed panels shall contain intergal and metallic stearate type water proofing. All shall be as recommended by the manufacturers of the Glass Blocks.

**Cement:**

Shall be standard brand conforming with the latest A.S.T.M. specification for Portland Cement. Designation C9-30.

**Lime:**

Shall be of an approved brand high calcium well slated quick-lime hydrated lime or mason's hydrate conforming respectively with the A.S.T.M. specification C5-26 and C6-31.

**Sand:**

Shall be free from silt, clay, loam, or other injurious materials. Not more than 5% shall pass a 100 mesh screen and 100% shall pass through a # 8 mesh sieve.



**Oakum:**

All sides and top joints shall be cushioned with fine grade lightly oiled picked oakum of a non-staining type. This material shall be caulked in these joints as directed by the manufacturer.

**Calking:**

Mastic Calking Compounds shall be as approved by the Architect but shall match the color of the mortar joints. This material shall completely fill the recesses provided at both interior and exterior perimeters of all glass block panels.

**Installation:**

Expansion joint strips shall be adhered to the jambs and heads with asphalt emulsion and shall run continuously in the expansive space and must rest directly on sill. Apply a heavy coat of asphalt emulsion to sills permitting same to dry at least two hours before laying mortar. All mortar joints shall be completely filled with mortar. Mortar must not bridge across expansion joints. Mortar joints shall not be furrowed. Blocks shall be laid up plumb true to a line with courses level and with 1/4" visible mortar joints. While mortar is still soft then and before final set, the joints shall be compressed or pointed back to a depth necessary to expose the corners of the blocks leaving clean sharp lines. The joints shall be left with a clean straight smooth tooled face. The blocks shall be laid slowly to prevent crushing of the fresh joints.

**Cleaning:**

While the mortar is still plastic the entire surface of the glass blocks shall be cleaned off and polished. After the entire work is complete these glass block panels shall be cleaned with water and polished.

**Miscellaneous:**

This Contractor shall make and set in place, the concrete drip stones as shown on the drawings. These stones shall be cast with a sloping water groove and finished in a neat and smooth manner. All areas on front and sides of building where jointing is shown shall have smooth plywood forms and "V" strip to form joints. Provide nailing blocks in concrete jambs of glass block panels for securing the sheet metal to. Furnish and install 12" x 12" T. C. foundation vent with screen back as shown on details. Furnish and install T. C. Flue lining for chimney of fire place. This Contractor shall build the fire place with its over lining concrete ledges, etc., as shown on drawings.

**MASON'S IRON WORK:****Miscellaneous Work:**

All steel and iron work, including anchorages shown and required for supporting wood and/or masonry work shall be furnished and installed by this Contractor. All shall be cut, punched and made according to details and dimensions and as instructed. All iron and steel work used structurally shall conform to A.S.T.M. A7-36 Standard Specifications.

This Contractor shall punch all holes in structural steel for securing wood and other work as shown and as necessary.

**Miscellaneous Iron Work:**

This work shall include the furnishing and installing of all miscellaneous iron work throughout the building. All shall be manufactured in the best manner and shall be carefully and substantially installed.

**Pipe Rails:**

Furnish and install pipe rails where shown. These rails shall be constructed in a neat and workmanlike manner, all joints shall be fitted together and neatly welded with all surplus metal ground off. Provide flanges to bolt into walls. Vertical pieces shall be either flanged or set into concrete as required. Provide sheet metal sleeves in concrete. Provide and install at doors where shown, steel angle thresholds with anchors for casting into concrete. The angle thresholds shall be installed at all doors between concrete and wood floors. All shall be set level true and arranged so the horizontal leg comes flush with finished floor.

Joint anchors, etc., shall be manufactured and installed as shown.

Steel stiffening bars in large or curved glass block panels shall be furnished and set by this contractor. Provide holes for securing anchors or wall ties as specified under head of glass blocks. Small angles shall be welded on to act as an inside shoulder for glass blocks. This Contractor shall furnish to the carpentry contractor brass sleeves and brass bumpers for toilet doors. The sleeves shall be heavy cast brass. The bumpers shall be made as shown and be fitted with a heavy rubber bumper. Concrete piers, etc., shall have steel dowells for securing the girders, ports, etc., Steel work back of sign shall be furnished and installed by sign contractors. The control booth-wood rails around ice floor area etc., shall leave pipe columns etc., as shown on details. There pipe columns may leave screwed flanges or they may be welded on top and bottom. Provide holes for tap bolts anchorage, etc., as required. The furnished wood-rail around the ice floor shall have chromium plated stanchions with top and bottom flanges. Rolling metal door shall be furnished and installed at the North East Corner of the building as shown. This door shall be Kinnear-Cornell or equal type manual controlled type, completely installed and in operating order. Provide a weather-tight steel hood, steel curtain composed of interlocking steel slats, of best galvanized steel. Steel spring barrel heavy coiling spring of sufficient size and quality to easily lift the door and give a long life to the installation. Counter balances, rings, proper size shafting or tension rod, barrel plugs, reduction gearings, chain guard, operating chains, guides, end locks, bottom bars, adjustment wheel, ball bearings on shafts etc., all complete and painted with the best metallic paint.

**Steel Windows;**

Shall be "Truscon Home Development," "Fanestra Economy" or equal make, together with all other metal work in connection with same, all of standard section weather-tight construction, all complete and ready for operation. The windows shall be the size and construction as shown on the drawings. They shall be provided with all the proper and necessary fixtures and with solid bronze hardware of a design selected by the Owner.

All steel sash members shall first be thoroughly cleaned and

then given an all-over heavy clip coating of an approved pure linseed oil and mineral metal priming paint.

All windows shall be secured in place as detailed and set in with an approved Mastic Calking Compound. The whole construction including sash, shall be guaranteed perfectly weather tight. Handles of casements shall be set 3" below center of sash to allow for operation of screens.

Fixed steel sash shall be provided in operating room.

#### TILE WORK

##### Scope of Work:

The work shall include all material, labor, equipment and services necessary for and reasonably incidental to the installation of all tile work shown on the drawings and called for in the specifications, including the tile floor at front entrance.

##### Samples:

Shall be selected by the Architect.

##### Grades:

The grades of all tiles shall be in accordance with the standard specifications of the "Associated Tile Manufacturers' latest revised specifications.

##### Lime:

All lime shall be fresh and shall conform to the standard specifications of the A.S.T.M. for quicklime as latest revised.

##### Cement:

Shall be the same as specified for concrete. White tile, if any, shall be pointed with white cement.

##### Sand:

Shall be the same as specified for cement topping.

##### Tile:

Shall be 6" x 6" red quarry tile as manufactured by Cannon and Company, North Sacramento.

##### Mortar for Concrete Base:

Shall be composed of 1 part of Portland Cement and  $2\frac{1}{2}$  parts of sand with not over 15% of lime putty in proportion of the amount of cement added. All shall be thoroughly sized to a proper consistency with a uniform color throughout, using a minimum amount of water.

Concrete shall be spread promptly, all surfaces shall be clean, free from dust or dirt and well wet before applying concrete.

##### Workmanship:

Shall be performed in the best manner known to the trade. All joints shall be rubbed smooth and slightly concave as directed.

##### Cleaning:

Of tile shall be done after the work is completed. All joints shall be made full and carefully pointed. Clean all surfaces with water and cover up to protect it from damage until the building is completed.

SECTION III

CARPENTER WORK

1031  
ICELAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

\*\*:

NOTE:

Section I is part of the specification covering this work and contains important conditions in connection with same.

RESPONSIBILITY AND COOPERATION:

This Contractor shall consult architectural, engineering and mechanical plans and check them with the work as he will be held responsible for conditions shown on one and not indicated on the other that may affect his contract.

This Contractor is to cooperate with all other contractors on the work and each contractor is to arrange to carry on his work in such a manner that the other contractors will not be unnecessarily delayed or hindered in the progress of their work.

SCOPE OF WORK:

Under the head of Carpenter Work is included: All rough and finish woodwork, except forms for concrete, which are specified under concrete work; all rough and finished hardware; all glass with all other work shown on drawings, herein specified or necessary to the proper completion of the entire work under the head of Carpenter Work.

Carpenter Contractor shall do all cutting and fitting of woodwork for other contractor, and shall repair all woodwork after them; he shall have general supervision of work of others which he attached to, or in juxtaposition to this work, and shall furnish all dimensions, assistance and directions relative to same, as required.

IT IS THE PURPOSE THAT THIS CONTRACT SHALL BE COMPLETE IN ITSELF. ANY ITEM WHATSOEVER OF THIS NATURE THAT IS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS AND NOT EXPRESSLY DETAILED OR SET FORTH AS A PART OF THIS BRANCH OF THE WORK, BUT WHICH IS ORDINARILY CONSIDERED AS A PART OF THIS DIVISION, SHALL BE INSTALLED BY THIS CONTRACTOR--UNLESS DEFINITELY SPECIFIED IN SOME OTHER BRANCH OF THE WORK.

TEMPORARY OFFICE AND TOILET:

Unless some other satisfactory arrangements can be made, this contractor shall build in a convenient place as directed, a temporary office with two rooms approximately 10' x 10' with

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8' ceilings, for the use of the General contractor, sub-contractors, and superintendents. Build in a high table for laying out plans, as directed. Provide proper size windows and a strong door with locks, etc.

Walls shall be 7/8" x 4" T & G and roof covered with 45# rool Roofing. This office shall be maintained in a clean condition until entire job is completed. Contractor shall also have a telephone installed for use of those in charge of the work on the building for the entire construction period.

This Contractor shall also contract and maintain if necessary an approved outdoor latrine or toilet in accordance with the requirements of the State Board of Health, or the ordinances of the City of North Sacramento, for the use of all crafts engaged on the building. If it is possible for the contractor to make other satisfactory arrangements for toilet accomodations, such arrangements will be approved.

#### GRADING OF LUMBER:

All lumber shall be #1 dimension S1S1E, unless otherwise shown on the plans. Grading shall be according to the rules of the West Coast Lumbermen's Association, #10, and in addition, shall be free from spiral or diagonal grain with a slope of more than 1" or 10".

Redwood sills shall be of "Heart Structural" grade, in the grading rules of the California Redwood Association.

#### ROUGH CARPENTRY AND FRAMING:

##### Materials:

All new lumber, except sills or plates on masonry shall be #1 Dimension Fir Coast Region. Exposed framing throughout shall be surfaced. All timbers throughout, the building shall be mill sized where shown, or where required to finish to a true line. All shall be straight stock and spliced only where shown or specified. Lumber of trusses, braces and purlins shall be "Selected Structural Grade".

In cutting and setting of framing, judgment shall be used to take care of the usual shrinkage developing after work is in place.

#### LAMELLA ROOF CONSTRUCTION:

Roof shall be a Lamella type as shown on the plans. It shall be designed and constructed by Summerbell Roof structures and shall be in accordance with local building ordinances. All lumber to be selected Lamella grade of No. 1 Com. Douglas Fir with slope of grain not more than one inch in ten inches, and shall be milled and machioned true to uniform dimensions. All steel for bolts and rods shall be of standard quality S. A. E. 1020, washers according to A. S. T. M. Specifications A-734.

The Contractor for this portion of the work shall furnish all materials and labor necessary for the complete erection of the Lamella Roof consisting of Lamellas, laminated arches at end termini of the Lamella construction, beveled wood sills along side walls, all tie rods, plates, hanger rods, bolts, lagscrews, washers and nails.

This contractor shall assume full responsibility for correctness of detailing of Lamellas, and arches, wedge blocks, starters, sills, tie rods, etc.

The furnishing and installing of sheathing shall not be a part of the Lamella contract.

**Stud walls and Partitions:**

All studs of interior partitions shall have single sills and double plates. All shall be 2" x 4" - 16 - o.c. unless otherwise marked on the drawings.

Joints in plates shall have members staged and lapped at least 4'. All corners shall be framed solidly with three studs. All bearing partitions shall be braced. Frame around all openings with headers (double) and double studs at sides. The headers shall rest on short studs at the sides. All openings over 3'6" shall be trussed over or leave a beam or girder of sufficient size to effectually carry the load.

**Braces and Blocking:**

Provide all bridging and blocking in stud walls required by the Building Ordinances of the City of North Sacramento, Provide and install all necessary blocking, backing, etc., for securing of plumbing, electric and heating, fixtures, also backing for tile, sheet metal, and other trades as shown or as directed.

**Washers and Bolts:**

All bolts subject to lateral sheer shall be provided with washers under head and nuts. These washers shall be malleable iron or equal, and shall not be less in diameter for each size bolt than the following:

for 1/2"	bolts	- 2 1/2 "	in diameter
" 5/8"	"	- 2 3/4 "	in diameter
" 3/4	"	- 3"	in diameter

**Floor Construction:**

Shall be as shown on the drawings. The sleepers and sub. Floor shall be "wolmanized" or equal, pressure treated material. Set and spaced as shown. The ends of sleepers shall be staggened to give as much circulation of air as possible. The sub-floor shall be laid diagonally and secured to the sleepers with at least two 8d common nails in each 6" wide pier at all beamings and 3 8d common nails if 8" wide material is used.

**Nailing and Fastening:**

The wooden framework shall be connected together with bolts, nails, or screws in a secure manner, and the connections between the various parts shall be such that all dead and live loads and lateral forces including wind shall be adequately resisted. The roof sheathing, shall be fastened to the Purlins with 20d nails. The nailing shall be spaced as shown on the drawings.

#### WINDOW FRAMES AND SASH:

Windows shall have no wood frames.

#### DOORS AND FRAMES:

All lumber for door frames etc., shall be best quality clear kiln dried, clean mill stock and carefully manufactured.

All frames shall be fit, except sills, staff beads and outside parts beyond main frame which shall be Redwood. Surfaces to match trim on inside of frames. All redwood members must be primed on backs before putting frames together and all frames primed all over at mill except exposed faces which shall be piled with boiled linseed oil. This priming shall be done by Painter, who shall be notified by mill man when frames are ready.

Special care must be used to make frames weather tight fitting and at the same time easy for operation.

All joints shall be white leaded at mill before putting together, Jams shall be dadoed into sills.

All doors shall be extra quality kiln dried stock, selected for closeness of grain. No heavy slash grain shall be accepted.

All shall be guaranteed against warping, cracking, splitting, checking or any other defects for 1 year. Panels of interior doors shall be 3 ply veneered. Stiles and rails of doors shall be securely blind mortized and tenoned together in a most approved and substantial manner.

All joints of frames shall be white leaded at mill before putting together.

#### EXTERIOR FINISH CARPENTRY:

##### Materials:

All lumber shall be best quality #1 stock, dry Redwood, except door and window jams which shall be good clear, dry vertically grained Douglas fir. Unexposed surfaces of redwood shall have a thorough priming coat before palcing as directed. All exterior finish shall be mill sanded. All ends must be white leaded before putting together.

#### INTERIOR FINISH CARPENTRY:

##### Material and workmanship:

All lumber except as otherwise shown or specified shall be best selected #1 kiln dried, vertical grained clear O. P. stock without pitch pockets, worm holes, or sap and manufactured in best manner.

Wood shall be selected for closeness and fineness of grain, heavy slash grain will be rejected.

All interior finish shall be blind nailed where detail is practicable for same. All shall be mill and hand sanded, with all interior corners sanded off.

Wood shall be left perfectly clean and strictly smooth on all surfaces, moulds, and angles, as directed ready for Painter.

**FIBERBOARD:**

Ceiling of all rooms shown on the drawings shall have "V" joint 1" thick fiberboard in colors and texture as directed. The panels shall be the shape and size as shown.



Round all exposed edges of all trim, cases, counter shelves, etc.

All finish wood shall be oiled on backs by Painter before placing.

**FLOORS:**

Finish wood floors of various rooms and floor areas of bleachers and elsewhere shown shall be second grade matched and end matched maple, T & G, flooring, laid long way of rooms, unless otherwise directed. All shall be 25/32" x 2-1/4" face.

All finished floors shall be so constructed that the finished surfaces shall be level with each other.

All floors shall be scraped or sanded to a smooth surface.

**FLOOR FINISH:**

Shall be applied throughout immediately after sanding and/or scraping. All floor surfaces shall be swept clean and thoroughly rubbed with a clean dry floor mop or cotton floor brush, to remove all dirt, sand, dust, etc. Then apply two coats of Hil-Sealwood primer or "Hockwells" Fiber Sealer" or equal with a sheep skin, or similar brush applicator, allowing the material to stand 24 hours. Use not less than gallon to each 500 square feet, per coat.

**Wood Walls:**

All interior walls, wainscoting, etc., as shown on the drawings shall be covered with plywood.

**PLYWOOD:**

Shall be 3/8" or 1/4" sanded thickness as shown. It shall be wall board quality as set forth in the standard grading rules of the Douglas Fir Plywood Association of Tacoma, Washington, 3 ply construction sound one side, put together with casine glue. Lamination shall be smoothly cut veneers arranged so that the face layers are placed at right angles to the center core. When face is composed of more than one piece, it shall be well joined and edge glued and reasonably well matched for grain and color.

It shall be reasonably free from knots, splits, pitch pockets and other open defects.

Phillipine Mahogany plywood shall be similar to that specified above for O. P. veneers.

**Trim:**

All trim shall be carefully mitered, coped, returned or rounded at corners and angles, glued where required and matched and set tight against other work. Unless otherwise shown, all openings shall have easings, casings shall entirely cover all rough work.

The base of all rooms, unless otherwise indicated shall be wood base with neat mould at top and bottom as shown and detailed.

Trim shall be used as shown and detailed.

**COUNTERS, BACK BARS, ETC:**

Shall be built as shown with drawers, shelves, etc., as shown on drawing.

The counter shelves shall be constructed of plywood smoothed down and shall have either a hard tempered pressed wood or masonite top cemented on, or 3/16" plain battleship linoleum also cemented on. Linoleum shall be in colors as selected.

A narrow wood mould of mahogany shall be installed around edges of counters secured with glue and screws. Fronts of counter shall be plywood. Provide shelving as shown.

There shall be a maple step at front of counter or bar as shown.

Prepare for opal glass panels over back bar as shown.

**MIRRORS:**

Furnish and set where shown in toilets a wood frame with 1/4" veneered back and wood stops complete ready to receive the mirror.

**TOILET PARTITION:**

Shall be constructed of 3/4" 3-ply veneered stock with small round grooved cover mould at top and bottom edges. The door shall be hung in a rebated and grooved frame which shall be supported on floor by heavy brass shoes. There shall also be a 2" x 3" supporting bar across top arranged between walls to support upright.

**CABINETS:**

All cabinets, cases, counters, shelving, locker cases, etc., shall be well built in strict accordance with details and in best workmanlike manner known to trade. All shall be built upon substantial framework, joints neatly fitted. All shelves where indicated shall be made adjustable with metal shelfrests. Where doors occur in pairs, same will be rebated at meeting rail. Cases shall have moulded cornices and bases where shown. Ends shall be made solid or paneled as shown.

All drawers shall be lipped type, with 3 ply veneer bottoms let into sides, sides gained into fronts and backs cut between sides, and all securely glued and nailed together.

All fronts of drawers shall be 7/8" thick. All drawers shall have maple bottom center guides.

Unless otherwise shown, all cases and cabinets shall be strongly made up of 1-1/8" stock, fronts and sides of 1" stock with 3/8" veneered panel. 13/16" T & C backing. Glass shall be set with wood stops and shelves shall be adjustable. All doors, unless otherwise shown, shall be 1-1/8" thick, and if over 2' x 3'6" shall be 1-3/8" thick. All cabinets shall have toe space under fronts except where shown otherwise.

All shelves in closets, etc., unless otherwise shown, to be 11-1/2" wide and adjustable--except as otherwise shown with horizontal members continuous, supported by verticals cut in at intervals not to exceed 4'0". All shelving, where stationary, shall dado into vertical members wherever possible.

## Carpentry Work - 7

Actual measurements for all cabinets, cases, etc., shall be taken at the building and provisions made where all pipes, columns, vents, etc., are furred. All cases, trim, etc., shall match approximately the trim in the existing portions of the building. Wood drain boards shall be 1-1/2" thick, sugar pine.

### Display cases:

Shall be constructed with plate glass front set in jambs and wood stops sides and back shall be sanded plywood with flush doors. Prepare for electric lighting fixture in ceiling.

### BLEACHERS:

Shall be constructed with heavy O. P. seats with rounded edges. Supports shall be sawed from 4" x 6" 4'-0" O. C. be secured with screws to the construction work below.

All edges shall be rounded

### WORK BENCH:

In skate room shall be constructed of heavy 2" thick material in a substantial manner.

### TICKET BOOTH:

Shall leave wickets, counter, etc., as shown

### SLUSH PIT:

Shall have a trap door cover and a section of base hinged as shown.

### RECESSES FOR AIR VENT AND BRINE RECORDER:

Shall be left in the walls and wood rails near main entrance as shown on the drawings and as directed. The lead lining of Air Vent recess or pocket will be supplied and installed by the Plumbing Contractor.

### REDED TRIM:

Shall be stuck to the patten indicated and shall be applied at openings in the manner as shown.

### OAK RAILS:

Over Plywood rails shall be run to patten and shall be joined with regular hand rail bolts in a thorough and substantial manner. Wood rails shall be formed with studs, pipe parts, plates sills, etc., over which veneered panels shall be applied on each side. Provide bare, 1/2 round moulds, and heavy flat wood cap with rounded edges.

### FINISH HARDWARE:

#### Scope of Work:

Included in this contract shall be all finishing hardware for all doors, windows, cabinet work, and all other material and items of finish hardware necessary to complete the building in accordance with the intent and purpose of the plans and specifications.

### In General:

The General Contractor shall include in his bid the sum of \$248.25 Dollars to be expended for furnishing hardware, delivered F. O. B. Building, including Sales Tax.

**Finish Hardware:**

This contractor shall furnish to the carpenter contractor a sample of all lock sets, etc., in proper time so they may be fitted into woodwork before painting is commenced.

Finishing hardware, as required, shall be selected or approved by the Owner and no such hardware shall be used, save by the consent of the Owner. Finishing hardware shall be delivered to General Contractor who shall give receipt for same and keep it in safe place. Finishing hardware shall be of the best kind and quality obtainable within the limit of the allowance above stated and any difference between the specified sum and the actual amount of the contract as the case may be, the right being hereby specifically reserved to the Owner of selecting and using finish hardware of better quality or higher cost than herein contemplated upon condition that in such case, the Owner shall pay to contractor such additional amount as with the sum stated above, shall equal the actual cost at fair market prices of the finish hardware so selected.

Contractor shall furnish the finishing hardware manufacturer or dealer from whom the finishing hardware is purchased, with all information as to details of woodwork which may be necessary to enable the party furnishing the finishing hardware to understand the requirements and to harmonize the hardware with the cabinet work as may be necessary, or where the interference is discovered, to have them adjusted before the hardware is made or delivered.

Contractor shall fit and apply in place all of said finishing hardware, in neat and workmanlike manner, and shall be responsible for its proper care and protection until building is completed and accepted by the Owner.

**GUARANTEE:**

The hardware contractor shall guarantee all finishing hardware against any mechanical defects or flaws in manufacture for a period of one year. He shall replace all items which fail under ordinary wear and use during that period without expense to the Owner.

**GLASS AND GLAZING:****Scope of Work:**

This section shall include all materials, labor, equipment and services necessary for and reasonably incidental to the installation of all glass and glazing throughout the building. All shall be securely set and guaranteed weathertight.

**Plate Glass:**

Shall be best 1/4" thick polished American Plate Glass, free from imperfections of any kind. All shall be accurately and carefully set.

**Sheet Glass:**

All glass, unless otherwise specified, shall be best quality American manufactured 16 oz. "B" quality labeled sheet glass, selected for true surface and for freeness from air blasts, or other blemishes. Any wavy or imperfect glass will be rejected and must be removed. All labels must remain on each sheet until

~~Finish Hardware:~~

Inspection is made by Architect. Glass in sash doors shall be 3/16" crystal sheet.

Opaque Glass:

All windows in toilets, and such other places as shown on drawings shall be Mississippi Glass Company's "Dewlite" or other translucent glass.

Mirrors:

The mirrors in toilets as shown shall be best polished American Plate Glass mirrors free from defects and carefully set in wood with wood frames.

Plate Glass Shelves:

Shall have exposed edges ground and polished back edge shall be seamed. Provide adjustable chromium plated metal shelf supports of a type and design as directed by the architect.

Securing:

Glass in sash doors shall be bedded, in putty and secured in place with wood stops provided by the Carpenter Contractor.

Other glass shall be well bedded, sprigged, bedded in putty, puttied and back puttied. Steel sash shall have glass set in wire clips.

Putty:

All putty shall be pure linseed oil putty, except steel sash which shall have regular steel sash putty.

Cleaning:

All glass of every description throughout the building shall be thoroughly cleaned by expert window cleaners. No scratching of glass will be tolerated. All work must be satisfactory to Architect.

Guarantee:

All glazing shall be guaranteed against weather leakage for one year from date of acceptance of the building.

SECTION IV  
SHEET METAL WORK  
ICELAND SKATING RINK  
FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

\*\*\*

**NOTE:**

Section I is part of the specifications covering this work and contains important conditions in connection with same.

**RESPONSIBILITY AND COOPERATION:**

This Contractor shall consult architectural, engineering and mechanical plans and check them with his work as he will be held responsible for conditions shown on one and not indicated on the other that may affect his contract.

This Contractor shall cooperate with all other Contractors on the work and each Contractor shall arrange to carry on his work in such a manner that the other Contractors will not be unnecessarily delayed or hindered in the progress of their work.

**SCOPE OF WORK:**

The work shall include all materials, labor, equipment and services necessary for and reasonably incidental to the installation of all sheet metal required to complete the building as shown and specified. Wood backing for sheet metal work will be put in by Carpenter Contractor under direction of Tinner. All structural work that is necessarily incorporated in, or for anchoring this work, shall be included.

All must be clean of soil, grease, acid, corrosion, etc., in a proper condition for Painter.

IT IS THE PURPOSE THAT THIS CONTRACT SHALL BE COMPLETE IN ITSELF. ANY ITEM WHATSOEVER OF THIS NATURE THAT IS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATION AND NOT EXPRESSLY DETAILED OR SET FORTH AS A PART OF THIS BRANCH OF THE WORK, BUT WHICH IS ORDINARILY CONSIDERED AS A PART OF THIS DIVISION, SHALL BE INSTALLED BY THIS CONTRACTOR--UNLESS DEFINITELY SPECIFIED IN SOME OTHER BRANCH OF THE WORK.

**SHEET METAL WORK:**

**Materials and Workmanship:**

Except as otherwise specified, all sheet metal work shall be of galvanized copper bearing or "Armco" pure Ingot Iron, or equal.

All galvanized iron metal shall be #26 gauge, except where otherwise called for.

Tin shall be equal to Follansbee Bros. Keystone I. C. and I. X. 40# coating on best soft iron sheets.

All work so required must be perfectly weather and watertight. All sheet metal shall be riveted or lock jointed, blind nailed or screwed and soldered in a secure and strong manner. Broken places in metal coating made in forming shall be completely soldered over. All joints in manufactured sheet and metal which are to be soldered shall be dove-tailed, riveted and thoroughly filled in all joints. All seams shall be folded and locked together.

**Flashing:**

All flashing shall be I. C. tin or # 26 G. I. put in flashing and counterflashing as required at all surface projecting from roofs or where roofs abutt walls as shown and wherever necessary to make the work permanently watertight throughout. Counterflashing shall be at least 6" wide.

Flash all junctions of roof and walls.

Flash all abutting walls in proper manner under direction of Carpenter Contractor.

**Gutters:**

Gutters along roof eaves as shown shall be hung on metal strips and shall be of profile shown.

Gutters shall be so constructed as to allow free movement due to expansion and contraction in order that joints may not be broken.

**Downspouts:**

Shall be round of sizes shown on drawings and shall be securely fastened into wall with straps. Downspouts shall have #3 galvanized mesh bracket strainers at tops.

The bottoms shall be carefully turned out over dripstones which shall be installed by concrete contractor, except the leaders on loading platform shall have #16 leader boots up 5' 0". These leaders shall connect to cast iron pipes which will empty the water at the yard level.

Form leader bands as detailed.

**Sheet Metal Signs:**

The letters shall be constructed of Sheet Metal with folded beaded edges. Backs of letters shall be open. These letters shall be set against the flat metal side of tower or be supported on metal ledges constructed similar to letters, with open backs.

All letters and bands shall be anchored to concrete work or sheet metal work to make a substantial, true and neat job. The sheet metal tower shall be constructed with a heavy steel frame carefully constructed, anchored and erected. The sheet metal shall

be secured in a proper and tight manner. Furnish and install the Finial at top all complete with proper provision for electric wiring and lighting effects as shown.

**GLASS BLOCK PANELS:**

Shall all have sheet metal frames so constructed that the glass blocks may be laid into them with all the necessary anchors, ties, expansion and cushion joints, and when the entire installation is complete it will be durable water and weathertight.

**Steel Stack:**

Shown on the drawings shall be constructed over the top of the terra cotta flue lining securely anchored to top of concrete stack and securely anchored by means of straps and clips to the steel framework of sign, as shown on the drawings.

**Roof Ventilators:**

Shall be installed on roof of the size, type and location shown on the drawings.

**Metal Louvres:**

Shall be furnished and installed where shown. Those in wall of Control Room shall be size and type indicated.

**PAINTING:**

Paint all tin flashing and other sheet metal, all over with best red lead before installing. No other painting shall be done by Tinner. All surfaces shall be cleaned with vinegar and water before painting.

**GUARANTEE:**

Furnish a written guarantee to the owner against deterioration, leakage or defects in workmanship for a period of one (1) year.

A copy of this guarantee is bound with the General Conditions.



SECTION V  
ROOFING WORK  
ICELAND SKATING RINK  
FOR  
MR. WM. J. KERTH  
1430 DEL PASO BOULEVARD  
NORTH SACRAMENTO, CALIFORNIA  
\*\*\*\*\*

**NOTE:**

Section I is part of the specifications covering this work and contains important conditions in connection with same.

**RESPONSIBILITY AND COOPERATION:**

This contractor shall consult architectural, engineering and mechanical plans and check them with his work as he will be held responsible for conditions shown on one and not indicated on the other that may affect his contract.

This contractor is to cooperate with all other contractors on the work and each contractor is to arrange to carry on his work in such a manner that the other contractors will not be unnecessarily delayed or hindered in the progress of their work.

**SCOPE OF WORK:**

The work shall include all materials, labor, equipment and services necessary for and reasonably incidental to the installation of all composition roofing work required to complete the building as shown and specified. Reglets and chases in walls shall be done by Masonry Contractor under direction of Roofing or Carpenter Contractor. This contractor shall include all nails, cement, etc., for the securing and completion of the work.

IT IS THE PURPOSE THAT THIS CONTRACT SHALL BE COMPLETE IN ITSELF. ANY ITEM WHATSOEVER OF THIS NATURE THAT IS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS AND NOT EXPRESSLY DETAILED OR SET FORTH AS A PART OF THIS BRANCH OF THE WORK, BUT WHICH IS ORDINARILY CONSIDERED AS A PART OF THIS DIVISION, SHALL BE INSTALLED BY THIS CONTRACTOR--UNLESS DEFINITELY SPECIFIED IN SOME OTHER BRANCH OF THE WORK.

**COMPOSITION ROOFS:**

**Note:**

All material shall be delivered to the building, properly labeled and with weight and quality clearly shown. All material shall be carefully weighed each night and morning, in the presence of the Inspector and his O.K. must be obtained before work can be proceeded.

**EXTENT OF WORK:**

This specification is to include furnishing and installing of

all composition roofing over all surfaces of roofs as shown on drawings and as hereinafter specified, together with all flashing necessary to complete the work.

**MATERIALS:**

All rolled roofing materials shall bear the National Board of Fire Underwriter's label or the Roofing Contractor shall obtain from the Architect the written approval of any material so not labeled.

Five layers 15# wool rag felt roofing sheets	75#
Mopped solid with Petrolastic XX or equal	130#
Cap sheets 45# asbestos rolled prepared roofing	45#
Total weight per 100 sq. ft.	250#

Flashing materials as herein specified.

**APPLICATION OF MATERIALS:**

After all roof surfaces have been swept clean of chips, nails, etc., lightly sprinkle with asphalt heated to flow freely and while the asphalt is hot, lay 15# felt at right angles to the roof pitch, shingled in two ply construction. Roll felts in using 25# of asphalt per square and nail sufficiently to hold in place. Place all sumps and collars, nailing the edges. Cover nails with a layer of saturated cotton fabric. Reinforce all valleys and low places with a layer of 30# saturated felt mopped solid to the underlying layers.

Where pitch of deck is over 1" to the foot, secure each felt 3/4" from the back edge with nails on 12" centers of sufficient size to penetrate the sheathing boards at least 1/2".

Mop the entire surface with asphalt heated to flow freely and while the asphalt is hot, roll in it 15" roofing felt in three-ply construction run at right angles to the underlying two layers. All felts shall be turned up 6" on all vertical surfaces. Approximately 25# of asphalt shall be used for per square between each ply of felt.

Where job conditions require, the five layers of 15# felt may be shingled in 5 ply construction, but in that case the felt should be laid parallel to the slope of the roof.

All felts shall be "Rolled-in" closely behind the mop so that no missing of asphalt can take place. "Pulling-in" of felts will not be permitted.

Before the asbestos cap sheet is applied or the top surfacing of asphalt and gravel is applied, cement strips of 40# roofing felt in all angles formed by the roof and vertical surfaces, and held in place with roof nails. Same extended 4" on to roof and not less than 6" on vertical surfaces.

The entire surface shall be covered with at least a 30# coating of asphalt per 100 sq. ft., flooded on while hot, roll in the

Roofing Work - 3

45# asbestos cap sheet in a careful manner, lapping joints carefully. These sheets shall be laid at right angles to the pitch of the roof.

After the cap sheets has been laid for a period of 30 days this contractor shall apply one good coat of asphalt base aluminum paint "Valdura," "Coolite" or equal using not less than 1 gallon per 100 sq. ft.

**GUARANTEE:**

Furnish written guarantee against deterioration, leakage, or other defects, properly executed as follows:

The composition roof shall be equal to National Board of Fire Underwriters' Grade "A" roof specifications.

All composition roofing shall be guaranteed for a period of two (2) years.

**DAMP PROOFING COURSE:**

Under sleepers where maple floors are shown shall be laid over the entire floor area and turned up 4" on side walls.

This course shall be as follows: After concrete is reasonably dry, this contractor shall roll in a single layer of 15# saturated felt into about 25# of asphalt per square. Lap all joints about 2". Follow with a second layer rolled into 25# of asphalt per square, breaking joints with the sheet below and lapping end and side joint of this sheet the same as the sheet below. When this is done flood the entire floor over the felt with 25# of asphalt per square, making a course composed of the following materials:

Saturated felt 2 layers	15#	30#
Asphalt 3 applications	25#	75#
Total weight per 100 sq. ft.		<u>150#</u>

SECTION VI  
PAINTING WORK  
ICELAND SKATING RINK  
FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

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MATERIALS:

All materials must be pure and absolutely first quality.  
No diluted or otherwise inferior material will be allowed.

Oil shall be pure linseed oil, thoroughly aged and settled.

Turpentine shall be pure spirits gum turpentine.

Lead shall be Fuller's "Pioneer" Dutch Boy Brand, or equal.

Zinc shall be pure oxide zinc with not over 12% inert, ground  
in pure linseed oil.

Colors shall be Masury's pure colors in oil, or equal.

Shellac shall be 4-1/2 lbs. best pure gum shellac to a gallon  
of pure alcohol.

Varnish shall be Pratt and Lambert's varnishes.

Exterior paint on wood or metal, except as otherwise specified,  
shall be made up as follows:

1st coat - - - - - 2/3 raw linseed oil  
1/3 turpentine  
16# lead per gallon

2nd coat - - - - - 2/3 turpentine  
1/3 raw linseed oil  
20 #lead per gallon

3rd coat - - - - - 3/4 raw linseed oil  
25# lead per gallon

All materials shall be delivered in their original packages  
with seals unbroken, and opened only in the presence of the  
Architect. They shall be used without cutting or the addition  
of any material whatsoever, except as directed, and shall be  
applied in strict accordance with the directions of the manu-  
facturer.

No distillate, Turpsene, or Painter's Thinner shall under any circumstances be brought to the job. Brushes shall be washed in turpentine.

**WORKMANSHIP:**

The painter shall examine all work and see that same is left in proper, clean, dry condition to receive his work, as the other trades are so required to prepare their work, except light sanding and dusting, which shall be done by Painter. Unless otherwise notified, the Architect shall assume that all work is in proper condition and Painter will be held responsible for a perfect job.

No applications will be made on work which is not perfectly dry.

Any work so required, shall be primed immediately upon delivery as or after setting, as directed.

Unless otherwise specified, all work shall be well sanded, and dusted before and between each coat as directed. All work shall be well brushed out, leaving no brush marks or other marks. After priming, or staining and filling all nail holes, cracks and other holes or crevices shall be filled with putty colored to match finish. Before priming painted work and after staining stained work, all sappy or pitch portions of surface shall be coated besides regular coats specified, with 1 or 2 light coats of shellac as required.

Each coat must be thoroughly dry before putting on next coat. And all work must be carefully cut in to a true accurate line. Carpenter will remove for Painter such finish hardware as required after fitting same.

All colors and finish shall be as directed by the Architect for each part of the work. Paint shall be of such consistency and so applied as to fully cover with the coats specified.

If required, 3 large size samples of each kind of work shall be submitted to the Architect. These samples must show each successive coat and each operation and must be made in the presence of the Architect. Same shall be used in judging the work as it progresses.

Painter shall be responsible for avoiding the settling of dust on interior work while it is setting. Contractor will execute orders to others in preventing same.

**EXTERIOR:**

**Metal:**

All iron, steel and sheet metal work, etc., shall be washed with diluted vinegar as directed and then given one coat of pure red lead followed by 2 coats of exterior paint, this includes inside of gutters.

**Wood:**

All exterior woodwork shall receive 3 coats of exterior paint.

**INTERIOR:**

All woodwork shall be painted three coats of Fuller Glo, or equal. Mahogany veneer walls of office shall be given one coat of oil stain, one coat of shellac, and one coat of flat varnish.

All woodwork of main ceilings, such as trusses, purlins, roof boards, etc., shall be given 2 coats Fuller Glo or equal.

All interior doors throughout building shall be painted 3 coats best interior paint as specified above. Tops and bottoms of all doors will be painted same number of coats as trim.

**Fiberboard:**

All fiberboard ceilings shall be given 2 coats Tex-o-lite or equal. If two coats do not cover, the Painter shall go over the entire surface with one more coat.

**Interior Metal:**

All interior metal shall be painted 3 coats of paint as directed.

Colors of all paints shall be selected by Architect.

**Masonry Work:**

All exposed interior masonry walls shall be given two good coats of best outside casine base cold waterpaint, "Tex-o-lite" or equal.

Exterior exposed masonry work shall be given two good coats of white wash the same material as manufactured by Willcoxon and Wilson, 1724 - 34th Street, Sacramento.

**PROTECTION:**

Painter shall be held responsible for full protection of all surfaces of this work and work of other trades against any spotting, staining or other damage from staining or painting.

**TESTS:**

Samples of oil, zinc, lead, turpentine, shellac, dryer, colors or any other materials as deemed necessary by the Architect may be tested in accordance with the Standards of the American Society for Testing Materials and any rejected shall immediately be replaced with proper materials.

SECTION VII

ELECTRIC WORK

FOR A

ICELAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

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GENERAL:

The "General Conditions" which proceed these specifications are hereby made a part of these specifications. This Contractor shall be held responsible for and be governed by all conditions thereunder.

The plans and specifications are intended to mutually explain each other, and anything which is shown on the plans, either architectural or electrical, and not mentioned or referred to in the specifications, or which is referred to in the specifications and not shown on the drawings shall be considered as being both shown and mentioned, and shall be done accordingly without extra charge.

In case these plans and specifications are in any part deficient or not clearly understood, the bidder shall apply to the Architect before such bids are submitted.

VISIT TO SITE:

The building in which this work is to be installed will be erected on the property of Mr. Wm. J. Kerth, located in North Sacramento, California.

This Contractor shall visit the site and verify the exact conditions and obtain such information as may be necessary for an intelligent bid.

WORK INCLUDED:

The Contractor for this work shall furnish all transportation, all skilled and common labor, all apparatus and material required for the complete electric installation as shown on the plans and as hereinafter specified.

WORK NOT INCLUDED:

The following work is not included in this contract:

Furnishing electric motors and controllers.

Furnishing and installation of Pacific Telephone and Telegraph Company's telephone wires, cables or apparatus.

**OCCUPANCY OF BUILDING IN PART:**

The Owners may wish to occupy certain portions of the building before the entire building is complete. In this event, this Contractor shall, upon notification, complete the electrical work in those portions of the building and complete the service to the same without extra cost to the Owner.

**RULES AND REGULATIONS:**

All work shall be in full accord with the latest orders of the Industrial Accident Commission, the State Railroad Commission and latest rules of the National Board of Fire Underwriters and the Department of Electricity of the City of North Sacramento.

This Contractor shall be governed by all the City Ordinances, all State, Federal and other laws and regulations pertaining to this work.

**PERMITS:**

This Contractor shall obtain all necessary permits, pay for same and deliver a certificate of Final Inspection to the Architect upon completion of work.

**PLANS:**

The drawing accompanying these specifications is No. E1, and together with architectural drawings form a part of the contract to be let under these specifications.

Architectural and mechanical drawings shall be consulted together with electrical drawings.

The Contractor for this work, as contemplated under these plans and specifications, must familiarize himself both as regards the portion of the work covered by his bid, and such other work as must be carried on in conjunction therewith, in order that the material be properly installed with no delay and to eliminate possible errors.

All measurements and locations of doors, partitions, etc., are to be taken from the architectural floor plans.

It is understood and agreed that all schedules are approximate only with reference to the number of circuits, number of outlets, etc., and this Contractor is to check same with plans as he will be held responsible for the complete equipment of all switchboards, panel boards, fixture outlets, etc., according to plans and specifications.

**GUARANTEE:**

This Contractor shall repair or replace, as may be necessary, any defective work, materials, or part which may show itself within one (1) year from the date of final completion, if in the opinion of the Architect, said defect is due to imperfection of workmanship or material.

**PROTECTION:**

During construction, all work embodied in this specifications shall be property protected from damage by accident or otherwise, and upon completion, all broken, damaged or otherwise defective parts shall be repaired or replaced by this Contractor at his expense, and the entire work left in a condition satisfactory.



To the Architect.

**CLEANING:**

This Contractor shall at all times keep the premises free from the accumulation of waste materials or rubbish caused by his employees or work. At the completion of the work he shall remove all his rubbish from and about the building also all superfluous materials, apparatus, tools, equipment, scaffolds and debris, resulting from work done under this specification.

**SUPERVISION:**

This Contractor shall personally, or through an authorized and competent representative, constantly supervise the work, and shall so far as possible, keep the same foreman and workmen on the work from commencement to completion.

**INSPECTION:**

All work and materials covered by these specifications shall be subject to inspection at any and all times by representatives of the Architect.

This Contractor shall have all switchboards, panel boards and cabinets inspected during construction or before shipment to the job by an authorized representative of the Architect and shall have the same approved in writing before making shipment. All expenses, incident to such inspection incurred by said representative, shall be paid by this Contractor.

**CUTTING, PATCHING AND EXCAVATING:**

Ample spaces are provided in the design of the building for the installation of the electrical work. Any other openings or spaces found necessary shall be arranged for by this Contractor with other Contractors, and in proper time to prevent unnecessary cutting.

This Contractor shall do all cutting or excavating necessary in connection with his work, and shall make all repairs and back-filling in a manner satisfactory to the Architect.

**GROUNDING:**

The lighting service neutral, all conduits and utilization equipment shall be permanently and effectively grounded in accordance with the latest rules of the National Electric Code of the National Board of Fire Underwriters and Industrial Accident Commission of the State of California.

**IDENTIFICATION OF SWITCHES AND APPARATUS:**

All switchboard and panel board switches, externally operated switches, push button and switch stations and apparatus used for the operation or control of circuits, appliances or equipment shall be properly identified with descriptive plates or lettering as selected by the Architect.

**MATERIALS AND SUBSTITUTIONS:**

When specific names are used in connection with materials, they are mentioned as standards, but this implies no right upon

the part of the Contractor to substitute other materials or methods without permission of the Architect. The decision of the Architect shall govern as to what material shall be substituted for the specified, but the burden of proof as to the equality of any proposed substitution shall be upon the Contractors. If any tests are necessary to determine the equality of the proposed substitution, such test shall be made at the expense of the Contractor by an unbiased laboratory satisfactory to the Architect.

**TEST OF MATERIALS AND INSTALLATION:**

An authorized representative of the Architect will make from time to time, tests of any part of any work or equipment installed, which they consider necessary to ascertain if it is in accord with the plans and specifications. The contractor shall extend to the said representative all facilities to this end, and shall furnish all skilled or unskilled labor required.

When the entire installation has been completed, said authorized representative will make a complete test before giving a final acceptance for the work covered by this contract. During such test the Contractor shall furnish all necessary labor and assistance as required for construction tests.

**MOTORS AND CONTROL APPARATUS:**

All motors and their control apparatus will be furnished by others who will install motors. This Contractor will set all controllers, resistors, push button stations, etc., and will make all connections to motors in rigid iron conduit or flexible double strip galvanized iron conduit as required.

**EXTERNALLY OPERATED SWITCHES:**

For all motors not located withinsight of power panels and at all locations shown on plans provide externally operated switches placed ahead of starters or as shown. Such switches shall be "Bull Dog", "Square D", or "Trumbull" of the proper size and rating, complete with proper size fuses to protect motor or circuit.

**PROSECUTION OF WORK:**

Immediately upon the award of contract, or when notified so to do by the Architect, this Contractor shall commence work upon the installation and shall carry on the same as fast as the progress of the building will permit. This Contractor shall use due diligence in the ordering of his materials and in the submittal of plans or samples, so that there will be no delay in the progress or completion of the work from any of these causes.

**SYSTEM OF WIRING:**

All wiring shall be run in rigid iron conduit. All conduit shall terminate in standard outlet boxes, pull boxes, cabinets or approved fittings.

**SYSTEM OF DISTRIBUTION:**

The system of distribution for light and power shall be single phase 120/240 volts, 60 cycle, three wire for Feeders and Sub-feeders and 120/volt, 2 wire of 120/240 volt, 3 wire for branches

and circuits.

#### DESIGNATION OF CIRCUITS:

The drawings accompanying these specifications indicated in a general way the routes of all branch circuits and, by means of circuit tags, indicate the various branch circuits pulled in each conduit, or serve to indicate the route of each circuit in such conduit, so far as is necessary to facilitate connections. Where circuit tags are not necessary for clearness, they have been omitted. All runs to panels have been indicated merely as starting from the nearest outlet and pointing in the general direction of the panel. The Contractor shall continue all such circuits and conduits to panel, as indicated by circuit tags, and all feeders, sub-feeders and special circuits to their respective switchboards or power panels, as though the routes were complete indicated.

These circuit tags show the number of the circuit, the panel to which it is connected and the service for which it is used.

#### CONDUIT:

All conduit shall be rigid iron, sheradized or hotdipped galvanized.

It shall be as manufactured by "Sheraduct", "Walkerduct", "Greenfielduct", or "Buckeye."

#### INSTALLATION OF CONDUIT:

All wiring throughout the building for light, power, telephone, loud speaker, system shall be installed in conduit of the size shown on plans.

Location of the conduits as shown on plans are diagramatic and the location chosen by the Contractor shall be subject to the approval of the Architect before the work is installed.

All bends and offsets shall be of as large a radius as the construction will permit, and in no case shall radius be less than  $3\frac{1}{2}$ ".

All conduits run below the rink floor shall be imbedded in at least 2" of concrete and in full accordance with the rules and regulations of the City Department of Electricity.

#### CEILING AND WALL OUTLETS:

All ceiling and wall outlets, except where condulets are indicated on plans, shall be Sprague, National, Steel City, or equal one piece, galvanized outlet boxes.

All outlets shall be provided with outlet boxes of the proper shape and size best suited to the particular location and large enough to accommodate all wires and connections without crowding. All boxes shall be 4" in diameter and 1-5/8" deep and larger where necessary. All boxes for 1" conduit and larger shall be 4-11/16" square boxes.

All boxes shall be complete with suitable galvanized covers, all canopy covers being provided with ears drilled and tapped, except exterior bracket outlets which shall be provided with special cast iron water tight boxes.

**WIRE AND CABLE:**

All rubber covered wire used in this contract shall be "Safecote" Flame proof, General Cable, Habirshaw, Parac, Simplex, General Electric Company's, John. A. Roebling Sons Company's or equal and approved make. Conductors shall be thoroughly tinned copper of not less than 98% conductivity and shall be rubber covered single braid solid for all conductors smaller than No. 6 B & S gauge and double braid stranded for No. 6 B & S gauge and larger. All wire and cable shall bear the Underwriter Laboratories' label and shall be brought to the job in unbroken packages and approved by the Architect, before the same can be installed.

**INSTALLATION OF WIRE AND CABLE:**

Wires and cables shall be of the sizes indicated on the drawings and shown in the feeder schedules, and shall not be drawn into the conduit until all work of any nature that may cause injury to them has been completed.

All branch circuits shall be No. 12 R. C. S. B. wire except where larger wires are specified or shown. Where a conduit run is shown without size of conduit or number of wires, two No. 12 R. C. S. B. wires shall be installed in  $\frac{1}{2}$ " conduit. Where a circuit size is not given and the mark for inches is not shown, No. 12 wire is understood viz:  $\frac{1}{2}$ -3 indicates  $\frac{1}{2}$ " conduit and 3 No. 12 wires;  $\frac{3}{4}$ -5 indicated  $\frac{3}{4}$ " conduit and 5 No. 12 wires etc., the first number indicating the nominal size of the conduit and the second number the number of No. 12 wires.

**FLUSH SWITCHES:**

Flush switches shall be single pole, three way or four way, as indicated on the plans, and shall be General Electric, Hart and Hegeman, Hubble or Bryant as follows:

	<u>GENERAL ELECTRIC</u>	<u>HART &amp; HEGEMAN</u>	<u>HUBBEL</u>	<u>BRYANT</u>
Single Pole	2841	8601-G	8801	3951
Three Way	2514	8603-G	8803	3953

Each switch shall have a stuck up plate not less than .040 inch in thickness, of brass finished to match the adjacent hardware. Plates shall have beveled edges and square corners and be set up so as to bear evenly all around the edges against the surrounding surfaces without being sprung out of shape. They shall be set plumb and true.

When two or more switches are grouped together, they shall be mounted behind gang plates.

**FLUSH RECEPTACLES:**

Flush receptacle shall be single, duplex, or special as indicated on plans and shall be General Electric, Hart and Hegeman, Hubbell or Bryant.

	General Electric	Hart & Hegeman	Hubbell	Bryant
Single	2740	1911-G	7590	4831-PE
Duplex	2679	1913-G	9595	4852-PE

Special receptacles as noted on plans.

All wall receptacles plates shall be the same as those specified for switch plates.

**MAIN SERVICE:**

This Contractor shall furnish and install the main service for this building to the Main Switchboard where indicated.

**MAIN SWITCHBOARD:**

This Contractor shall furnish and install the main switchboard as shown on the plans and in the schedule. It shall be located under seats and shall be complete with all switches, fuses, busses and meter can shall be made up of externally operated switches SQ D Trumbull or Westinghouse--Type D mounted on T & G Backing, the backing to have two coats of paint.

**PANEL BOARDS AND CABINETS:**

This contractor shall furnish and install lighting panels as shown on the plans and schedules. Panel A Shall be two section Trumbull panel containing a Type N T. P 320L and one 60 Ampere 2 pole switched connected on to the same buss.

**FUSES:**

All switches and panel boards shall be completely equipped with fuses. The cartridge fuses shall be Economy Non-Renewable. The plug fuses shall be Economy Clearsite.


**PUBLIC ADDRESS SYSTEM WIRING:**

All microphone lines shall terminate in control booth at which point a cabinet must be provided for mounting the four Hubbell #23000 receptacles, two Yaxley No. 2 tel Jack, and one blank. For microphone lines use only GB213a and handle with care, avoid kinks and damage to the rubber covering of the wire, and use only resin core solder in soldering joints. Tape all joints while warm with rubber tape and a friction tape covering painted with a suitable water proof paint.

Microphone outlets and covers (Hubbell 23000 receptacle, 23007 cover) shall be provided at the following locations on the East side of the rink at points designated on the plans (two) outlets as above and on the West side of the rink (two) outlets as above. In addition to the microphone outlets the contractor must supply Yaxley No. 2 Tel Jack at each Microphone outlet. The Tel Jack outlets should be connected in parallel terminate at the control booth. The microphone and telephone outlets should be placed at the rink side.

The contractor shall furnish and install two duplex standard power outlets in the control room for amplifier power 120V. A. C. to a convenient point in the control room. The contractor shall furnish and install a #14 or larger ground wire, the ground end to be connected to 6 ft. ground rod or connected to an approved clamp.

The contractor shall furnish and install an approved double antenna system and run the lead in to the control booth.

The contractor shall provide a conduit between the control booth and the organ. The location of the organ will be shown on the plan, no wire will be placed in this conduit. 

Two pair of speaker voice lines shall be run from control room to a point designated on the plan. These lines are run in conduit and should be tested for grounds and tagged.

The microphone and telephone outlets at the rink rails shall be set in a recess at each location large enough to accommodate the P. S. Condulets.

The Public Address equipment will be furnished by others.

This contractor shall turn over all receptacle and etc., for connecting over to the Public Address supplier.

#### INTERCOMMUNICATION RADIO SYSTEM:

The contractor shall furnish and install at points designated on the plans a speaker microphone outlet in each of the following locations:

1	Master Station	Office
1	"	"
1	Speaker Micro.	Control Booth
1	"	Restaurant
1	"	Box Office
1	"	Skate Room
1	"	First Room
1	"	Plant
1	"	Organ
3	"	Spots

The master stations located in the office and control booth are connected in multiple and the voice lines to remote stations may be run from either of these locations. The lines to remote stations shall terminate in a suitable wall box flush mounted and provided with a hinged cover. All lines must be soldered to a suitable connecting block such as a 30-W.E. or equal and through the trim of the box furnish and install a bushing for the cable leading to the master stations. For inter-station wiring use #22 Twisted pair or larger, annunciator lines use 16 for common other wires use 18 or larger.

The contractor shall tag all wires at each outlet of mounting box and leave sufficient wire at each outlet for connecting apparatus.

All wires for the Teletalk system shall be run in separate conduit and shall not be included in lighting or power conduits.

The joins shall be reduced to a minimum and be well made and soldered with resin core solder and taped.

The contractor shall furnish a standard power outlet-120 V.A.C. into which the power plug of the master radio may be inserted. The power outlet should be located at a point convenient to the master stations.

The radio intercommunication system equipment will be furnished by others.

**GENERAL:**

Any conduits that are run under the rink area shall be installed two feet below rink surface.

The outlets in the control room shall be located as required by the Architect.

The fluorescent fixtures shall be neatly hung from the under side of the building tie rods, tightly against the rod.

The roof ventilators will be furnished by others.

The main service entrance cap shall be located as high as possible on the building.

The clock outlets shall be Hubbell #7715 of brass finish to match adjacent hardware.

**ELECTRIC FIXTURES:**

This contractor shall furnish and install the electric fixtures complete with lamps and ready for service in accordance with the following type schedule and as noted on plans.

All lamps shall be the size shown.

Symbol	Wattage	Manufacturer, Type and Catalog No.
A	4-40	Fluorexcent Fixtures, Hygrade miralume JP-200 with 4-daylight fluorescent lamps, less hanging canopy and stems, complete with ballast and power factor correction.
B	2-40	Fluorescent Fixtures, Hygrade miralume C-100 with 2-daylight fluorescent lamps, less hanging canopy and stems, complete with ballast and power factor correction.
C	100	Pryne Flush Fixture #100-C Pryne Flush Fixture #101-C
D	100	

## Electric Work - 10

Symbol	Wattage	Manufacturer, Type, and Catalog No.
E	2-75	Pryne Semi Flush Fixture #153-C
F	100	Benjamin #3769 Shallow dome reflector with ceiling steel hood.
H	100	Benjamin #3745PUL Bowl Reflectors with ceiling steel hood.
I	75	Hubbell #3923 Porcelain Ceiling Receptacle.
K	40	Hubbell #40262 Porcelain Pull Receptacle.
L	50	Hubbell #3923 Porcelain Ceiling Receptacle with Hubbell #5564-P Parabola Reflectors.
M	150	Hyperion Glass #8612 with Plume and Atwood C-3506 Brass Ceiling Holder finished in Statuary Bronze.
N	200	Hyperion Glass #8614 with Plume and Atwood C-3506 Brass Ceiling holder finished in Statuary Bronze.
O	100	Hyperion Glass #8610 with Plume and Atwood C-3494 Brass Ceiling holder finished in Polished Chrome.
P	5000	Floor Pocket Major #FF51 with Major #800 Stage Plug. (Spots furnished by others.
T-1	100	Fluorescent lighting mounted on Wiremould #3000 with necessary fittings, sockets, auxiliary, power factor correctors, starters and Wiremould #3091 Reflectors to accommodate two 48" and one 24" Fluorescent lamp.
T-2	110	Same as T-1 except to accommodate two 48" and one 36" Fluorescent lamps.
T-3	130	Same as T-1 except to accommodate three 24", and one 36", and one 48" Fluorescent lamp.
T-4	70	Same as T-1 except to accommodate one 36" and one 48" Fluorescent lamp.



SECTION VIII

PLUMBING WORK

ICELAND SKATING RINK

FOR

MR. WM. J. KERTH

1430 DEL PASO BOULEVARD

NORTH SACRAMENTO, CALIFORNIA

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**NOTE:**

Section I is part of the specifications covering this work and contains important conditions in connection with same.

**SCOPE OF WORK:**

Furnish and install in the best manner, all drain, sewers, and appurtenances, all piping, pipe hangers and supports, valves and fittings of all kinds for gas, hot and cold water, supply, eastes, and ventilation of wastes, together with any other piping herein specified and the plumbing fixtures and appurtenances, making the system of supply, use and wastes complete and ready for service, all as shown and specified and satisfactory to the Architect. No brine piping or connections to brine system are to be included in this phase of the work.

All work shall be installed in strict accordance with the Plumbing and Sanitary Rules and Regulations for the City of North Sacramento, and must be installed accordingly whether shown and specified or not. This contractor shall take out and pay for all necessary permits in connection with his work.

**PIPE SIZES:**

All piping and fitting shall be of the inside diameter designated on the diagram or herein after specified, and no increase or decrease of these pipe sizes will be allowed, except by written permission from the Architect.

**CAST IRON PIPE AND FITTINGS:**

Cast iron piping shall be new best quality standard weight cast iron hub and spigot pipe, sound, free from defects, and of iron that will cut well. It shall be cast in 5 feet lengths smooth inside and with outer and inner surfaces concentric.

Any pipe cracked in cutting or otherwise shall be at once removed from the work and no such pipe shall be used in any part of the work.

Fittings for cast iron pipe shall be standard soil fittings

of the same inside diameter as the pipe with which they are to be used. Fittings shall include elbow, bends, Y's, traps, etc., and where shown or specified shall have proper hand holes packed and bolted or fitted with brass screw plugs as directed.

"Y" fittings and one-eighth (1/8) or one-sixteenth (1/16) inch bends shall be used wherever possible. Sanitary long sweep bends and combination "Y" and eighth bends may be used only for the connection of branch lines to fixtures and on vertical runs of piping and then only when their use is made necessary on account of clearance or in order to maintain the proper grade.

Cast iron soil pipe and fittings shall be used throughout the entire installation for soil waste lines unless particularly indicated on the drawings or herein specified.

#### WROUGHT IRON OR STEEL PIPE AND FITTINGS:

Wrought iron or steel piping to be new best quality, "full weight," black or galvanized wrought iron or mild steel, screw jointed pipe, National Tube Company's, or equal, and shall be free from all dents, fins, kinks and burrs.

Ends of pipe shall be reamed out to full inside diameter and beveled before being made up into fittings. Under no circumstances will the bending of piping be permitted; all changes in direction must be made with the proper fittings.

The fittings for wrought iron or steel piping shall be Standard banded cast or malleable iron, galvanized fittings of Crane Co., or equal manufacture.

Under no circumstances will sheradizing be permitted in lieu of galvanizing.

#### PIPE JOINTS AND CONNECTIONS:

All joints in cast iron pipe shall be made with a packed oakum gasket and soft pig lead. Joints shall be tightly caulked leaving not less than one and one-half inches depth of lead room. The inside shall be examined and if not smooth, shall be made so. A clay roll or a rounded asbestos roll shall be used to make the joints and it shall be put on so that after caulking, the lead will finish flush with bell.

All joints between cast iron pipe and wrought iron or brass pipe shall be made same as above, the ends of wrought iron or brass pipe shall have a ring or part of a coupling screwed on to form spigot end.

All joints in wrought iron or steel pipe and connections of same to brass pipe shall be screw joints, made up with graphite and boiled linseed oil, screwed home with tongs and wrenches.

All union connections on wrought iron or steel pipe shall be made with ground joint brass to iron unions, Chicago, Kewanee, or equal, or Pitt. No long screw or other packed joints will be permitted. Under no circumstances will the caulking of any

screwed joints be permitted. Same must be in all cases, made tight in the manner specified.

Unions on brass waste pipes on fixture side of traps with unions on all brass flush may be slip or flange joint with soft rubber or lead gaskets.

**VITRIFIED PIPE AND FITTINGS:**

All vitrified pipe and fittings shall be first quality standard strength vitrified salt glazed, socket joint, earthenware pipe and fittings.

**SEWERS:**

Sewers for all soil and waste lines inside and outside of the building shall be of standard cast iron pipe.

Each sewer pipe shall be laid accurately, to line and grade, rising not less than  $\frac{1}{4}$ " to 1 ft. in length, unless otherwise ordered.

**SOIL, WASTE AND VENT PIPING:**

Furnish and install all the soil, waste and vent piping required for the connection of all plumbing fixtures, drains and special equipment as shown on the drawings and specified. All pipes shall be run as near as possible in the locations shown and shall be of the size given on the drawings, or as required by the plumbing law but not less than the sizes indicated.

Vents shall extend through roof and shall be flashed and counterflashed with 6 lb. sheet lead in an approved manner.

All vents shall be connected together where practicable and offset to extend through flat part of roof.

**RODDING HOLES:**

Rodding holes of same diameter as pipe shall be placed in all horizontal sewer lines, at all points of change or direction, at the base of all soil and waste drops and at all other points where indicated.

**WATER SUPPLY:**

All hot and cold water piping shall be galvanized mild steel pipe. The mains shall be installed in the building where shown and branches connected to all plumbing fixtures, hose reels, hose bibbs, etc.

All cold and hot water outlets for all fixtures, shall be provided with 12" air chambers set in wall or as directed.

Connections shall be made from the existing ice water line to drinking fountains and to hose bibb as shown on the plan.

**SECURING PIPING:**

All piping throughout the system shall be firmly secured with proper allowances for expansion and contraction. The spacing of points of suspension or support shall in no case exceed ten feet for wrought iron or steel pipe and five feet for cast

iron pipe. All hangers shall be set to allow for the expansion and contraction of the pipe lines without straining the pipe or hangers.

Hangers shall be of approved design.

**PIPE SLEEVES:**

Galvanized iron pipe sleeves, generally one inch greater in diameter than pipe passing through same, shall be accurately placed **Before** concrete is poured.

**TEST OF WATER SUPPLY PIPING:**

At the completion of the work, all water supply piping both hot and cold shall be tested and made tight under a hydrostatic pressure of one hundred (100) pounds per square inch which pressure shall be maintained without fluctuation of gauge for a period of one hour or longer time, as may be required by the Inspector to make a complete examination of the entire division of the system being tested, without additional pumping. The test pumping must be provided by this contractor.

**GRADING OF PIPING:**

All pipes shall be graded from ends of mains. Special care must be exercised in installation and grading of soil and waste lines to insure an even grade to main sewer.

**VALVES:**

All gate valves, unless otherwise indicated or specified, shall be of the straightway pattern with wedge gates and glands, Crane Company's #438, or equal. All drain valves, unless otherwise indicated or specified shall be of the Globe or angle pattern with removable discs, Crane #7, or equal. All check valves unless otherwise indicated, or specified, shall be horizontal regarding swing check valves, Crane #35, or equal.

**FLOOR, WALL & CEILING PLATES:**

Where exposed pipes pass through floors, finished walls, or finished ceilings, they shall be fitted with solid cast iron N.P. floor and ceiling plates.

**TEST OF DRAINAGE PIPING:**

At such times as the Architect may direct, this contractor shall stop all openings in soil, easte, drain and vent piping, set up the necessary stand pipes and fill with water to the level of top of highest vent and allow to stand at least one hour or longer time as may be required by the Inspector to make complete examination of the entire division of the system being tested.

**FIXTURES:**

Catalogs of all concerns mentioned in these specifications, showing the fixtures described, are on file at the office of the Architect, and may be used for comparison by contractors wishing to submit bids.

**General Requirements for Fixtures and Equipment:**

All fixtures, except where particularly specified otherwise, shall be first-class in every respect. All finished plumbing

shall be accurately lined up and where batteries of fixtures occur, special care shall be taken with the roughing in and finished plumbing.

The number and position of all plumbing fixtures are shown on the plumbing diagram. All local connections to fixtures shall be of the sizes indicated thereon.

All water supplies to fixtures shall be provided with compression stops of the type herein specified. All tubing traps shall be not less than eleven gauge.

**Plating:**

All chromard plating shall be guaranteed in writing not to peel or rub off for a period of five years from date of completion and acceptance of the building. Any parts rubbing or peeling off during said five years from date of completion and acceptance of building shall be removed and replaced, or new parts set in their places by this contractor without extra cost to the Owner.

**Compression Stops:**

All fixtures with supplies concealed in wall shall be fitted with Mueller long neck compression stops chromard finished.

**FINISH OF BRASS GOODS:**

All bibbs, flush valves, etc., for sinks, toilets, lavatories urinals, etc., shall be chromard plated.

**LAVATORIES:**

To be Crane C2155 20" x 16" white enamel flat back lavatories fitted with C31851 faucets  $\frac{1}{2}$ " OD tubing supplies to wall with compression stops and flanges  $\frac{1}{2}$ " tube "P" trap to wall.

All lavatories to have cold water only and cock hole covers over openings for hot water.

**Urinals:**

To be Crane C15-764 - 48" trough urinal, acid resisting enamel inside, with perforated wash down pipe. C33-900  $\frac{1}{2}$ " cast brass P trap C.P. Flush valve to be  $\frac{1}{2}$ " #389 Chicago type Naied C.P.S.C. angle valve with oscillating metal handle.

**Water Closets:**

In toilet rooms, all shall be Crane C 10312-A "Rapidway," or equal, vitreous china wall hung closets with elongated rim and  $1\frac{1}{2}$  inch top inlet, fitted with C 12901 "Delta" flush valve with integral vacuum breaker, C14911 RD ebony finish hard rubber seat with check hinge.

**Drainage Fittings and Carriers for Wall Hung Bowls:**

In toilet rooms shall be Crane C 37143 G supporting carriers with stud bolts, washers and nuts and galvanized outlet connection and C 37126-E Crane-Hulbert single long turn drainage fittings.

**HOT WATER HEATER:**

Hot water heater shall be Crane Champion or equal gas fired automatic storage type of 20 gallons capacity complete with necessary vent.

DRINKING FOUNTAINS:

To be Haws 7A vitreous china drinking fountains all complete with anti-squirt angle stream head, chrome plated self-closing valve bronze diaphragm type automatic pressure regulator, etc.

Hose Bibbs:

To be Crane C32688 3/4" rough compression lawn faucets.

Floor Drains:

To be Josam Series 300 floor drains with strainer-size as shown on plan. Install trap under drain.

Note: Rough in only for fountain fixtures.

PROTECTION:

During construction all work embodied in these specifications shall be properly protected from damage by accident, staining or otherwise defective parts shall be repaired or replaced by this contractor, at his expense, and the entire work left in a condition satisfactory to the Architect in every particular.

All surplus material and debris resulting from work under these specifications shall be cleaned out and removed from the building and premises by this contractor at completion, except that the surplus earth shall be disposed of as directed by inspector.

GUARANTEE:

This contractor hereby becomes responsible for all labor, material, and apparatus installed under these specifications and shall guarantee the proper operation of same for a period of one year from date and after date of final certificate. He shall make good, repair, or replace at his own expense, as may be necessary any defective work, material or part which may show itself within said one(1) year from and after date of final certificate, if in the opinion of the Architect, such defect is due to imperfection in workmanship or material as specified.

The Contractor shall give the Architect a written guarantee signed by himself, covering the requirements mentioned above.

ICELAND SKATING RINK  
1430 DEL PASO BLVD  
NORTH SACRAMENTO CALIF

*[Handwritten Signature]*

OWNER  
CONTRACTOR  
Contractor's Signature

JUN 25 1940  
TAG

*[Handwritten Signature]*