Jerome School District Jefferson Elementary --Invitation to Bid--

Bids to complete work as defined will be accepted, from invited contractors, by Starr Corporation until <u>Thursday, 5/18/23 by 2:00PM</u>. Bids may be delivered to 2995 East 3600 North, Twin Falls, ID, or emailed to <u>jhsbids@starrcorporation.com</u>. Bids to be valid for 30 days. Bids to be submitted utilizing the attached bid form. Plans for this project are available on Starr Corporation's website.

http://plans.starrcorporation.com.php72-2.lan3-1.websitetestlink.com/projects/index.php?path=Jefferson_Elementary_Bids_Due_May_18th_2_p.m./

Informal Pre-Bid Walk-throughs will be available at the school on Friday, 5/5/23 and Friday, 5/12/23 between the hours of 3:30PM & 5:00PM for those interested.

Starr Corporation is the CM/GC for this project. Starr Corporation may elect to submit proposal(s) on bid packages. Starr Corporation's proposal will be submitted no later than 12:00 PM on the bid date. This early bid delivery is designed to give all bidders an assurance of an open, competitive, and fair bidding environment.

Schedule: Addition will begin Summer of 2023. Other renovation will begin November 2023. Project to complete July 2024.

- Special Bid Instructions:
 - 1) <u>Substitution Requests</u> will be received through <u>Thursday</u>, <u>5/11/23</u>, only.
 - 2) <u>Pre-Bid RFI's</u> will be received through <u>Monday</u>, <u>5/15/23</u>, <u>only</u>.
- Bid Information Notes:
 - 1) Switchgear has already been ordered to avoid schedule issues. Specifications for the gear are included in the Bid Documents.
 - 2) Food Service Equipment bid previously.

When preparing a proposal please be sure to review the following:

- Project Bid Documents
- Project Plans
- Project Specifications

If questions should arise during the bid process, please contact Jeff Russell at 208-420-7703 or via email at jeff@starrcorporation.com

CONTRACTOR BID PROPOSAL

JSD – Jefferson Elementary

TO: Starr Corporation 2995 East 3600 North Twin Falls, Idaho 83301 jhsbids@starrcorporation.com

BIDDER:

The Bidder, having examined the bidding and contract documents, and the site of the proposed work and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, equipment, materials and supplies to complete the work as outlined in the contract documents and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents of which this proposal is a part.

The preliminary construction schedule is included with the bid documents to provide a general understanding of the schedule requirements and the crew size required to meet this schedule. Bidder agrees to immediately begin submittals. Bidder to submit completed shop drawings within two weeks of receipt of contract.

Bidder acknowledges receipt of Addenda No._____, ____,

Bid Package No. Bid Package Description
Amount (numerically) \$
Amount (written)
Add Alternate No. 1-Corridor finish and opening upgrades.
Amount (numerically) \$
Amount (written)
Add Alternate No. 2-Roof-Top HVAC equipment replacement.
Amount (numerically) \$ Amount (written)
Add Alternate No. 3-New Cafeteria window.
Amount (numerically) \$ Amount (written)
NOTE: Refer to Sheet SD0.1 – Summary Plan for full description of Alternates 4A thru 4F:
Add Alternate No. 4A: North Playground – Wood Fiber Fall Surface:
Amount (numerically) \$ Amount (written)



Add Alternate No. 4B: North Playground – Rubber Mulch Fall Surface:
Amount (numerically) \$ Amount (written)
Add Alternate No. 4C: North Playground – Synthetic Turf Fall Surface:
Amount (numerically) \$ Amount (written)
Add Alternate No. 4D: South Playground – Wood Fiber Fall Surface:
Amount (numerically) \$ Amount (written)
Add Alternate No. 4E: South Playground – Rubber Fall Surface:
Amount (numerically) \$ Amount (written)
Add Alternate No. 4F: South Playground – Synthetic Turf Fall Surface:
Amount (numerically) \$ Amount (written)
Payment and Performance Bond may be required. Price to provide Payment and Performance Bond for the work associated with this bid package.

Amount (numerically)	\$
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Amount (written)



Bidder understands that Starr Corporation reserves the right to reject any or all bids and to waive any informalities in the bidding.

The bidder agrees that this bid shall be good and may not be withdrawn for a period of 30 calendar days after the scheduled closing time for receiving bids.

Any modification or addition to this Bid Proposal may render the bid unresponsive and void.

The Undersigned notifies that he is of this date duly licensed as an Idaho Public Works Contractor and further that he possesses Idaho Public Works Contractor's License No. and is domiciled in the State of Contractor Registration Number RCE . ____day of______, 2023. (month) Dated this (date) Respectfully submitted, By: (Company) Corporate Seal, if applicable (Business Address) (Signature) (Title) (Telephone Number) Include the following with your completed bid form: **Drug and Alcohol-Free Workplace Affidavit** National Sex Offender Registry Certification



Jerome S	School District - Jefferson El			
Bids to S	Starr Corporation by May 18,			
Bid Package No.	Package Description	Spec Section	Description	Additional Comments: All items include material, labor, and equipment for installation, unless noted otherwise.
01	Demolition	Division 1	General Requirements	All sections to be included in their entirety.
01	Demolition	024119	Selective Structure Demolition	Include all demolition, excerpt those specifically identified in Sitework, Fire
N/A	N/A	028211	Asbestos Abatement	By Others.
N/A	N/A	028333 Appendix B	Lead-Based Paint Removal and Disposal Asbestos and Lead-Based Paint Testing Report	By Others. By Others.
BP-02 CONCE	RETE			
02 02	Concrete Concrete	Division 1 033000	General Requirements Cast-in-Place Concrete	All sections to be included in their entirety. Includes all building and site concrete including reinforcement and embeds. Grading for structures & on-site concrete by Site Contractor. Curbs, gutters & sidewalk for on-site included.
02	Concrete	035416	Hydraulic Cement Underlayment	Foundation dampproofing
02	Concrete	072100	Thermal Insulation	Foundation & under-slab rigid insulation, only.
02	Concrete	079200 321313	Joint Sealants	Sealants for interior concrete scope of work, only.
02	Concrete	321373	Concrete Paving Joint Sealants	Sealants for exterior concrete scope of work, only.
02 BB-03 MASON		321726	Tactile Warning Surfacing	l
03	Masonry	Division 1	General Requirements	All sections to be included in their entirety.
03	Masonry	042000	Unit Masonry	Include all masonry reinforcement. Bucks for CMU openings by Others.
BP-04 STRUC	TURAL STEEL (Supply & Install)	079200	Joint Sealants	
04	Structural Steel (S/I)	Division 1	General Requirements	All sections to be included in their entirety.
04	Structural Steel (S/I)	051200	Steel Joist Framing	
04	Structural Steel (S/I)	053100	Steel Decking	
04	Structural Steel (S/I) Structural Steel (S/I)	055000	Pipe and Tube Railings	
BP-04a STRU	CTURAL STEEL (Install, Only)			
04a 04a	Structural Steel (Install) Structural Steel (Install)	051200	General Requirements Structural Steel Framing	All sections to be included in their entirety.
04a	Structural Steel (Install)	052100	Steel Joist Framing	
04a 04a	Structural Steel (Install)	053100	Steel Decking Metal Fabrications	
04a	Structural Steel (Install)	055213	Pipe and Tube Railings	
04b	CTURAL STEEL (Supply, Only)	Division 1	General Requirements	All sections to be included in their entirety
04b	Structural Steel (Supply)	051200	Structural Steel Framing	
04b	Structural Steel (Supply)	052100	Steel Joist Framing	
04b	Structural Steel (Supply)	055000	Metal Fabrications	
04b	Structural Steel (Supply)	055213	Pipe and Tube Railings	I
05	Rough Carpentry	Division 1	General Requirements	All sections to be included in their entirety.
05	Rough Carpentry	061000	Rough Carpentry	
05	Rough Carpentry	061753	Shop-Fabricated Wood Trusses	
05	Rough Carpentry	072700	Infiltration Barriers	
05	Rough Carpentry	113013	Residential Appliances	
05	Rough Carpentry	079200	Joint Sealants	Sealants for this scope of work only.
06	Millwork	Division 1	General Requirements	All sections to be included in their entirety.
06	Millwork	064116	Plastic Laminate Faced Architectural Cabinets	
BP-07 ROOFI	NIIIwork NG	079200	Joint Sealants	Sealants for this scope of work only.
07	Roofing	Division 1	General Requirements	All sections to be included in their entirety.
07	Roofing	075423	Thermoplastic Polyolefin (TPO) Roofing	For this scope of work only.
07 07	Roofing Roofing	076200	(3) Year Roofing Warranty Sheet Metal Flashing and Trim	Gutter and gutter sleeve only. Steel downspout by others. Includes metal valley flashing.
07	Roofing	077200	Roof Accessories	Sociants for this scope of work only
BP-08 DOORS	S & HARDWARE	079200		
08	Doors & Hardware	Division 1	General Requirements	All sections to be included in their entirety.
08	Doors & Hardware	081416	Flush Wood Doors	
08	Doors & Hardware	083113	Accss Doors and Frames	For this scope of work only
BP-9 OVERHE	EAD COILING DOORS	087100		
09	Overhead Coiling Doors	Division 1	General Requirements	All sections to be included in their entirety.
09	Overhead Coiling Doors	079200	Joint Sealants	Sealants for this scope of work only.
BP-10 ALUMI	NUM FRAMED ENTRANCES & STOREFRONT	S Division 4		All agations to be included in their setting.
10	Aluminum Storefronts	084113	Aluminum-Framed Entrances and Storefronts	Ail sections to be included in their entirety.
10	Aluminum Storefronts	084523	Translucent Fiberglass Sandwich Panel Assemblies	
10	Aluminum Storefronts	088000	Glazing	maroware for this scope of work, only. Includes all glass for storefronts & hollow metal doors & frames.
10	Aluminum Storefronts	079200	Joint Sealants	Sealants for this scope of work only.

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 | Stugge | Division 1
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 | Stucco | 079200
 | Joint Sealants | | | | | | | | |
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| 12

 | Drywall | Division 1
 | General Requirements | All sections to be included in their entirety. | | | | | | | |
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| 12

 | Drywall | 054000
 | Cold-Formed Metal Framing | | | | | | | | |
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| 12

 | Drywall | 066400
 | Plastic Paneling | | | | | | | | |
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| 12

 | Drywall | 072100
 | Thermal Insulation | Wall, Ceiling & Vapor barrier, only. | | | | | | | |
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| 12

 | Drywall | 092900
 | Gypsum Board | Provide & install cementitious backer units. | | | | | | | |
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| 12

 | Drywall | 095113
 | Acoustical Panel Ceilings | | | | | | | | |
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 | Drywall | 098413
 | Fixed Sound-Absorptive Panels | | | | | | | | |
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| 12

 | Drywall | 078413
 | Penetration Firestopping | As required for this scope of work, (Example: tops of walls). | | | | | | | |
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| 12

 | Drywall | 079200
 | Joint Sealants | Sealants for this scope of work only. | | | | | | | |
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| BP-13 WOO

 | D ATHLETIC FLOORING |
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| 13

 | Wood Athletic Flooring | Division 1
 | General Requirements | All sections to be included in their entirety | | | | | | | |
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| 13

 | Wood Athletic Flooring | 096466
 | Wood Athletic Flooring | | | | | | | | |
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| 13

 | Wood Athletic Flooring | 070200
 | loint Seplants | Sealants for this scope of work only | | | | | | | |
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 | | 079200
 | | Teealants for this scope of work only. | | | | | | | |
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| 14

 | Electing Covering / Tiling | Division 1
 | Conoral Requirements | All postions to be included in their entirety | | | | | | | |
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| 14

 | Flooring Covering / Tiling | 002012
 | | An sections to be included in their entirety. | | | | | | | |
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| 14

 | Flooring Covering / Tiling | 093013
 | Desilient Dess and Assessmine | Cementitious backer units by Drywaii bid package. | | | | | | | |
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| 14

 | Flooring Covering / Tilling | 096513
 | Resilient Base and Accessories | | | | | | | | |
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| 14

 | Flooring Covering / Tiling | 096516
 | Resilient Sheet Flooring | Joint and crack filling, minor leveling, and sanding is included. | | | | | | | |
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| 14

 | Flooring Covering / Tiling | 096519
 | Resilient Tile Flooring | Joint and crack filling, minor leveling, and sanding is included. | | | | | | | |
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| 14

 | Flooring Covering / Tiling | 096816
 | Carpeting | Joint and crack filling, minor leveling, and sanding is included. | | | | | | | |
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| 14

 | Flooring Covering / Tiling | 079200
 | Joint Sealants | Sealants for this scope of work only. | | | | | | | |
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| BP-15 PAIN

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| 15

 | Painting | Division 1
 | General Requirements | All sections to be included in their entirety. | | | | | | | |
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 | Painting | 071900
 | Water Repellents | | | | | | | | |
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 | Painting | 099113
 | Exterior Painting | | | | | | | | |
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| 15

 | Painting | 099123
 | Interior Painting | | | | | | | | |
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| 15

 | Painting | 079200
 | Joint Sealants | All interior sealants exclusive of concrete, aluminum storefront, and millwork. | | | | | | | |
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 | - anitalig | 0.0200
 | | Includes caulking hollow metal frames prior to painting. | | | | | | | |
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| 16

 | Specialties | Division 1
 | General Requirements | All sections to be included in their entirety. | | | | | | | |
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 | Specialties | 101100
 | Visual Display Surfaces | | | | | | | | |
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 | Specialities | 101416
 | Signage | | | | | | | | |
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 | Specialities | 102113
 | Toilet Compartments | | | | | | | | |
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| 16

 | Specialities | 102113
 | Wall and Door Protection | | | | | | | | |
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 | Specialities | 102000
 | Tailet and Dath Assessaries | | | | | | | | |
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 | Specialities | 102000
 | Fire Extinguisher Cohinete | | | | | | | | |
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 | Specialities | 104413
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 | Specialities | 104410
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| 16

 | Specialties | 115213
 | Projection Screens | | | | | | | | |
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20	Electrical	260536	Cable Trays	
23	Electrical	260543	Under Slab and Underground Electrical Work	
23	Electrical	260800	Lighting Systems Commissioning	Í
20		200000		
23	Electrical	260923	Lighting Control Devices	
23	Electrical	262413	Switchboards	Reference attached Switchgear submittal.
23	Electrical	262416	Panelboards	
23	Electrical	262726	Wiring Devices	
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23	Electrical	262813	Fuses	
23	Electrical	262815	Disconnect Switches	
23	Electrical	265100	Interior Lighting	
23	Electrical	266000	Electrical Demolition and Repair	
20		200000		
23	Electrical	271101	Telecom Raceway Systems	
23	Electrical	271500	Telecommunications Cabling	
23	Electrical	275116	Integrated Communications and Clock Network	
23	Electrical	275118	Sound Systems	1
20		275110		
23	Electrical	275200	Class Room Audio System	
23	Electrical	281000	Access Control System	
23	Electrical	282310	Video Management System	
23	Electrical	282320	Video Surveillance Remote Devices and Sensors	
		202020	Value Every stranger Fire Alarm System	<u> </u>
23		283200	voice Evacuation Fire Alarm System	
23	Electrical	113013	Residential Appliances	Include all necessary connections relative to this scope of work.
23	Electrical	114000	Food Service Equipment	Include all necessary connections relative to this scope of work.
23	Electrical	078413	Penetration Firestopping	As required for this scope of work
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23	Electrical	078413	Firestopping Appendix A	As required for this scope of work.
23	Electrical	079200	Joint Sealants	As required for this scope of work.
23	Electrical	083113	Access Doors and Frames	Supply and install as needed for access to items installed under this scope of
20	Liootilou	000110		work
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24	Sitework	Division 1	General Requirements	All sections to be included in their entirety.
24	Sitework	SD6.0 &	Erosion and Sediment Control	Sitework Contractor responsible to provide all erosion & sediment control
		SD6 5		components including setup, maintenance and removal
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24	Silework	310120		
24	Sitework	311000	Site Clearing	
24	Sitework	312300	Earthwork	
24	Sitework	315000	Excavation Support and Protection	
		004040		
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<u></u>	Silework	321210	Asphalt Favilig	
24	Sitework	321210	Pavement Markings	
24 24 24	Sitework	321723 331100	Pavement Markings Site Water Lines	
24 24 24 24	Sitework Sitework	321210 321723 331100 222150	Pavement Markings Site Water Lines	
24 24 24 24 24	Sitework Sitework Sitework	321723 321723 331100 323150	Spite Values Site Water Lines Site Signage	
24 24 24 24 24 24	Sitework Sitework Sitework Sitework	321723 321723 331100 323150 333100	Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System	Include Sand & Grease traps as shown on Site Utility drawings.
24 24 24 24 24 24 24	Sitework Sitework Sitework Sitework Sitework	321210 321723 331100 323150 333100 334100	Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5.
24 24 24 24 24 24 24 24 24	Sitework Sitework Sitework Sitework Sitework Sitework	321210 321723 331100 323150 333100 334100 334600	Aspriat Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping Subdrainage	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5.
24 24 24 24 24 24 24 24 24	Sitework Sitework Sitework Sitework Sitework Sitework Sitework	321210 321723 331100 323150 333100 334100 334600 334600	Aspiratr aving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5.
24 24 24 24 24 24 24 24 24 24	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework	321723 321723 331100 323150 333100 334100 334600 Appendix A	Aspiratr aving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5.
24 24 24 24 24 24 24 24 24 BP-25 PLAYG	Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES	321723 331100 323150 333100 334100 334600 Appendix A	Aspirat Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5.
24 24 24 24 24 24 24 24 BP-25 PLAYG 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment	321710 321723 331100 323150 333100 334100 334600 Appendix A Division 1	Aspirat Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety.
24 24 24 24 24 24 24 24 BP-25 PLAYG 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment	321710 321723 331100 323150 333100 334100 334600 Appendix A Division 1 321800	Aspirat Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playaround Equipment and Structures	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety.
24 24 24 24 24 24 24 24 BP-25 PLAYG 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment	321710 321723 331100 323150 333100 334100 334600 Appendix A Division 1 321800 321816	Aspirat Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety.
24 24 24 24 24 24 24 24 24 24 24 25 25 25 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment	321710 321723 331100 323150 333100 334100 334600 Appendix A Division 1 321800 321816 321816	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety.
24 24 24 24 24 24 24 24 BP-25 PLAYG 25 25 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment Playground Equipment Playground Equipment	321723 321723 331100 323150 333100 334600 Appendix A Division 1 321800 321816 321822	Aspiratr aving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety.
24 24 24 24 24 24 24 24 24 25 25 25 25 25 BP-26 SITE FL	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety.
24 24 24 24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment Playground Equipment SiteWork SiteWo	321723 321723 331100 323150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety.
24 24 24 24 24 24 24 25 25 25 25 25 BP-26 SITE FU 26 26	Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment Playground Equipment JRNISHINGS Site Furnishings Site Furnishings	321723 321723 331100 323150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Eumiseinge	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. All sections to be included in their entirety.
24 24 24 24 24 24 24 24 24 25 25 25 25 25 25 BP-26 SITE FL 26 26	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment Playground Equipment Playground Equipment Site Furnishings Site Furnishings	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings	All sections to be included in their entirety. All sections to be included in their entirety.
24 24 24 24 24 24 24 BP-25 PLAYG 25 25 25 25 BP-26 SITE FL 26 26	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment Site Furnishings Sit	321723 321723 331100 323150 333100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300	Aspinal raving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment.
24 24 24 24 24 24 24 24 25 25 25 25 BP-26 SITE FL 26 BP-26 SITE FL 26 BP-27 CHAIN -	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment Playground Equipment Site Furnishings Site Furnishings Site Furnishings Site Furnishings Site Furnishings	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment.
24 24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment Playground Equipment Site Furnishings Site Furnishings LINK & DECORATIVE FENCES Fencing	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety.
24 24 24 24 24 24 24 25 25 25 BP-26 SITE FL 26 BP-26 SITE FL 26 BP-27 CHAIN - 27	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment Playground Equipment JRNISHINGS Site Furnishings Site Furnishings Site Furnishings Site Furnishings Site Furnishings Site Furnishings	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety.
24 24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment Site Furnishings Sit	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 32300 Division 1 223113 224140	Aspirat Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety.
24 24 24 24 24 24 25 25 25 25 25 BP-26 SITE FL 26 26 BP-27 CHAIN- 27 27 27	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment Site Furnishings Site Furnishings Site Furnishings LINK & DECORATIVE FENCES Fencing Fencing Fencing Fencing	221210 321723 331100 323150 333100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323300	Aspirat Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety.
24 24 24 24 24 24 24 25 25 25 25 25 BP-26 SITE FL 26 26 BP-27 CHAIN- 27 27 BP-28 LANDS	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment Site Furnishings Site Furnishings Site Furnishings Site Furnishings Site Furnishings CAPE & IRRIGATION Site SiteRUP	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323113 323119	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety.
24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework Playground Equipment Playground Equipment Playground Equipment Site Furnishings Site Furnishings Site Furnishings LINK & DECORATIVE FENCES Fencing Fencing Fencing CAPE & IRRIGATION Landscape	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323113 323119 Division 1	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates General Requirements	All sections to be included in their entirety.
24 24 24 24 24 24 25 25 25 25 BP-26 SITE FL 26 26 BP-27 CHAIN - 27 27 BP-28 LANDS 28	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment UNISHINGS Site Furnishings Site Furnishings Site Furnishings Site Furnishings CAPE & IRRIGATION Landscape Landscape	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323113 323113 323119 Division 1 328400	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Equipment and Structures Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates General Requirements Cancel Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety. All sections to be included in their entirety.
24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment Site Furnishings Sit	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 32300 Division 1 323113 323119 Division 1 328400 229500	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates General Requirements Landscape Irrigation Landscape Irrigation	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety. All sections to be included in their entirety.
24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment JRNISHINGS Site Furnishings Site Furnishings Site Furnishings LINK & DECORATIVE FENCES Fencing Fencing Fencing Fencing CAPE & IRRIGATION Landscape Landscape Landscape Landscape	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323113 323119 Division 1 328400 328500	Aspinal Favings Site Markings Site Water Lines Site Signage Site Sanitary Severage System Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates General Requirements Chain Link Fences and Gates General Requirements Chain Link Fences and Gates General Requirements Chain Link Fences and Gates General Requirements Landscape Irrigation Landscape Grading	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety. All sections to be included in their entirety. All sections to be included in their entirety.
24 24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment Site Furnishings Site Furnishings Site Furnishings Site Furnishings Site Furnishings Site Furnishings CAPE & IRRIGATION Landscape L	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323113 323119 Division 1 328400 328500 329113	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates General Requirements Landscape Irrigation Landscape Grading Soil Preparation	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety. All sections to be included in their entirety. All sections to be included in their entirety. All sections to be included in their entirety.
24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment Site Furnishings Site Furnishings Site Furnishings Site Furnishings Site Furnishings CAPE & IRRIGATION Landscape Site Sitework Sitewo	221723 321723 331100 323150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323113 323119 Division 1 328400 328500 329113 329200	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates General Requirements Landscape Irrigation Landscape Grading Soil Preparation Turf and Grasses	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety. Site will be cut to sub-grade elevation, (+/-) one-tenth by Others.
24 24 24 24 24 24 24 25 25 25 25 25 BP-26 SITE FL 26 26 BP-27 CHAIN - 27 27 27 27 BP-28 LANDS 28 28 28 28 28 28	Sitework Playground Equipment Playground Equipment Playground Equipment Playground Equipment UNIS Site Furnishings Site Furnishings Site Furnishings Site Furnishings Site Furnishings LINK & DECORATIVE FENCES Fencing Fencing Fencing CAPE & IRRIGATION Landscape Lands	221723 321723 331100 223150 333100 334100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323113 323119 Division 1 323119 Division 1 328400 328500 329210 329200	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Severage System Storm Utility Drainage Piping Subdrainage Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Equipment and Structures Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates General Requirements Landscape Irrigation Landscape Grading Soil Preparation Turf and Grasses Tree Protection and Trimming	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety. Site will be cut to sub-grade elevation, (+/-) one-tenth by Others.
24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Sitework ROUND EQUIPMENT & STRUCTURES Playground Equipment Playground Equipment Playground Equipment JINISHINGS Site Furnishings Site Furnishings Site Furnishings Site Furnishing Fencing Fencing Fencing CAPE & IRRIGATION Landscape Land	221723 321723 331100 223150 333100 334100 334600 Appendix A Division 1 321800 321816 321822 Division 1 323300 Division 1 323113 323119 Division 1 328400 328500 3292113 329200	Aspinal Faving Pavement Markings Site Water Lines Site Signage Site Sanitary Sewerage System Storm Utility Drainage Piping Geotechnical Evaluation Report General Requirements Playground Equipment and Structures Playground Equipment and Structures Playground Surface Systems Synthetic Playground Turf General Requirements Site Furnishings General Requirements Chain Link Fences and Gates Decorative Metal Fences and Gates General Requirements Landscape Irrigation Landscape Grading Soil Preparation Turf and Grasses Tree Protection and Trimming Plant	Include Sand & Grease traps as shown on Site Utility drawings. Include all components on Sheet SD5.5. All sections to be included in their entirety. All sections to be included in their entirety. Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment. All sections to be included in their entirety. All sections to be included in their entirety. All sections to be included in their entirety. Site will be cut to sub-grade elevation, (+/-) one-tenth by Others.

CONTRACTOR'S AFFIDAVIT CONCERNING ALCOHOL AND DRUG-FREE WORKPLACE

STATE OF _____

Pursuant to the Idaho Code, Section 72-17 17. 1, the undersigned, being duly sworn. depose and certify that is in compliance with the provisions of Idaho Code section 72-1717; that______provides a drug-free workplace program that complies with the provisions of Idaho Code, title 72, chapter 17 and wit1 maintain such program throughout shall subcontract

Name of Contractor

Address

City and State

By: ______(Signature)

Subscribed and sworn to before me this _____ day of _____

Commission expires:

ROTARY PUBLIC, residing at



NATIONAL SEX OFFENDER REGISTRY

Idaho Code §18-8329 prohibits any person who is registered or required to register under the Sex Offender Registration Act from being on school property if the person has reason to believe children under 18 are present. As a provider of goods and/or services to the Jerome School District projects, your company and those in your employment are subject to this law.

Please sign and return this letter confirming to the Jerome School District that your company will prohibit any persons in your employ who are registered or required to register under the Idaho Sex Offender Registration Act from participation in company business with the Jerome School District if such participation would require them on campus. Further, by signing, you confirm that you have cross checked such employees against the National Sex Offender Registry found at the following website: http://www.nsopr.gov

Company Name

Signature of Company Representative

Printed Name

Date











Detail Bill of Material Project Name: Jefferson Elementary General Order No:

Negotiation No: Alternate No:

Page 1 of 2 P1TS0105X3K1 0001

Item No.	Qtv	Product	Description	
	1	Switchboa	Pow-R-Line Xpert Switchboard, Front Access/ Front and Rear Align, Type 3R (nonwalk-in) Flat Roof, 208Y/120V 3-Phase 4-Wire, 2000 Copper, Minimum Interrupting Rating: 65kA, Bus Bracing Rating: 65kA, Depth: 30 In	
			Designation MSB	
Structure		1	000 Amp CU Main Structure ertical Isol. Barrier (Service Entrance) ompartment 1 - Breaker 2000A 3P PDG63M Breaker [2000A Frame] XR20 LSI Trip Unit w/ ARMS, rip Unit Amps, 2000A ocal using breaker interface	
Structure		2	000 Amp CU Distribution Structure ompartment 1 - Breaker 1200A, 3P PDG53M Breaker, [1200A Frame] XR20 LSI Trip Unit w/ ARMS, rip Unit Amps, 1200A ocal using breaker interface ompartment 2 - Breaker 400A, 3P PDG33G Breaker [400A Frame] XR10 LSI Trip Unit rip Unit Amps, 400A ompartment 3 - Breaker 400A, 3P PDG33G Breaker [400A Frame] XR10 LSI Trip Unit rip Unit Amps, 400A ompartment 4 - Breaker 200A, 3P PDG23G Breaker [225A Frame] XR10 LSI Trip Unit rip Unit Amps, 225A ompartment 5 - Breaker 200A, 3P PDG23G Breaker [225A Frame] XR10 LSI Trip Unit rip Unit Amps, 225A ompartment 6 - Breaker 200A, 3P PDG23G Breaker [225A Frame] XR10 LSI Trip Unit rip Unit Amps, 225A ompartment 6 - Breaker 200A, 3P PDG23G Breaker [225A Frame] XR10 LSI Trip Unit rip Unit Amps, 225A ompartment 7 - Breaker 200A, 3P PDG23G Breaker [225A Frame] XR10 LSI Trip Unit rip Unit Amps, 225A	
		Qty 2 1 1 2 1 2 1 2 4	ist of Materials ype 3R (nonwalk-in) Flat Roof ervice Entrance Label 200 Amp CU Main Structure ertical Isol. Barrier (Service Entrance) 200 Amp CU Distribution Structure ameplate opper Ground Bus 200A 3P PDG63M Breaker [2000A Frame], Trip 2000 A, PXR20 LSI w/ RMS, (6) #4-500 kcmil, Mechanical, Bottom 200A, 3P PDG53M Breaker, [1200A Frame], Trip 1200 A, PXR20 LSI w/ RMS, (4) 4/0-500 kcmil, Mechanical 200A, 3P PDG33G Breaker, [1200A Frame], Trip 400 A, PXR10 LSI, (2) 2/0- 50 kcmil, Mechanical 200A, 3P PDG23G Breaker [225A Frame], Trip 200 A, PXR10 LSI, (1) #4- /0, Mechanical	

Eaton Selling Policy 25-000 applies.



etail Bill of	Material
oject Name:	Jefferson Elementary

Project Name: General Order No:

D

Negotiation No: Alternate No:

Page 2 of 2 P1TS0105X3K1 0001

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.



Pow-R-Line Xpert - Specifications Minimum Interrupt Rating: 65 kA Bus Specifications Bus Bracing Rating: 65 kA Bus Marcal Xpecifications Incoming Indexnatic Copper Ground Bus Boted To Frame, (1) Incoming Information Incoming Location: Left Incoming Rating: Batty: Bottom Incoming Information Incoming Rating: Specifications Service Specifications Service Entrance Entosure Configuration Per Euserc Dug 324 Special Notes Catalog Number 1 Description/Modifications 1 Section incoming main device (Incoming Main DeviceMLG Section) 2 50x chassis mounted feeders (Freeder Structure) 2 50x chassis mounted feeders (Freeder Structure)		Swi	itchboard Ge	neral Information		
Bus Specifications Bus Amps: 200 Bus Bracing Rating: 65kA Neutral Amps: 200 Neutral Amps: 200 Neutral Amps: 200 Bus Material: Copper Ground Bus Bolted To Frame, (1) Heat Test Ground Bus Material: Copper Ground Bus Bolted To Frame, (1) Heat Test Ground Bus Material: Copper Ground Bus Bolted To Frame, (1) Heat Test Ground Bus Material: Copper Ground Bus Bolted To Frame, (1) Incoming Information Incoming Entry: Bottom Incoming Entry: Bottom Incoming Service Structure Specifications Service Frame Qu Description Catalog Number Enclosure Type: Type 3R (nonwalk-in) Flat Roof Struct # Description/Modifications 1 Ifformation entities the document is the structure properties 1 Ifformation entit Boottom Incoming and device (Incoming Main Device/MLG Struct # Description/Modifications 1 Ifformation entit Boottom Incoming Advect Intervence Encource properties 1 Ifformation entit Boottom Incoming Advect Intervence Encource Properties 1 Incoming Intervence In	Pow-R-Line Xpert - Specificatio Quantity: 1 Alignment: Front Access/ Front Service: 208Y/120V 3-Phase 4-V	ons t and Rear Align Wire		Minimum Interrupt Rating: 65 kA		
Neutral Amps: 2000 Bus Material: Copper Ground Bus Bolted To Frame, (1) #5398 kcmil Ground Lug Incoming Information Incoming Information Incoming Chry: Bottom Incoming Chry: Bo	Bus Specifications Bus Amps: 2000			Bus Bracing Rating: 65kA		
Ground Bus Material: Copper Ground Bus Bolted To Frame, (1) #3:30 kcml Ground Lug Incoming Entry: Bottom Incoming City: 8 Size: Terminals, Mechanical, (6) #4-500 kcmli, Bottom Ground Structure Spacifications Service Entrance Enclosure Configuration Per Euserc Dwg 354 Special Note Catalog Number Enclosure Configuration Per Euserc Dwg 354 Special Note Catalog Number Enclosure Configuration Per Euserc Dwg 354 Section) Vertical Isolating barrier 2 **********************************	Neutral Amps: 2000 Bus Material: Copper			Heat Test		
Incoming Information Incoming Livy: Bottom Incoming Livy: Bottom Incoming Livy: A Size: Terminals, Mechanical, (6) #4-500 kcmil, Bottom Structure Specifications Service Entrance Enclosure Type SR (nonwalk-in) Flat Roof Struct # Description Catalog Number Enclosure Type SR (nonwalk-in) Flat Roof 1 Description/Modifications 1 Struct # Description/Descript Struct # Description/Modifications 1 Struct # Description/Modifications 1 Struct # Description/Intermited # Description/Intermit	Ground Bus Material: Copper #6-350 kcmil Ground Lug	Ground Bus Bol	ted To Frame, (1)			
Structure Specifications Service Entrance Enclosure Type: Type SR (nonwalk-in) Flat Roof Enclosure Type: Type SR (nonwalk-in) Flat Roof Service Entrance Oty Description Catalog Number Enclosure properties Struct # Description/Modifications Bottom incoming main device (Incoming Main Device/MLG Section) Vertical isolating barrier 2 50x chassis mounted feeders (Feeder Structure) ************************************	Incoming Information Incoming Entry: Bottom Incoming Qty & Size: Termin Bottom	als, Mechanical,	(6) #4-500 kcmil	Incoming Location: Left		
Enclosure: Outdoor Enclosure Configuration Por Euserc Dwg 334 Struct # Catalog Number Enclosure properties Struct # Description/Modifications 1 Bottom incoming main device (Incoming Main Device/MLG Section) Vertical isolating barrier 2 2 50x chassis mounted feeders (Feeder Structure) * Struct # 1 Social isolating barrier 2 50x chassis mounted feeders (Feeder Structure) * Struct # 1 Social isolating barrier 2 Sox chassis mounted feeders (Feeder Structure) * Struct # * Struct # * Sox chassis mounted feeders (Feeder Structure) * Struct # *	Structure Specifications Service Entrance Enclosure Type: Type 3R (nonv	valk-in) Flat Roof				
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SHEET

2 of 3

	Switchboard Units Information							
Str#	Unit	Description/Mo	odifications				Nameplate	
1		Main Breaker - ARMS, None ARMS Operatio Terminals, Mech Neutral Termina	Ind Mtd-2000A 3P n - Local using brea nanical, (6) #4-500 I, (6) #4-500 kcmil	PDG63M Breaker aker interface kcmil, Bottom	[2000A Frame], Trip 20	000A., PXR20 L	SI w/	
2	1	Feeder Breaker LSI w/ ARMS, N ARMS Operatio Terminals, Mech Neutral Termina	- Chassis Mtd-120 Ione n - Local using bre nanical, (4) 4/0-500 I, (4) #4-500 kcmil	0A, 3P PDG53M B aker interface kcmil	reaker, [1200A Frame]	, Trip 1200A., P.	XR20	
	2	Feeder Breaker Terminals, Mech Neutral Termina	- Chassis Mtd-400 nanical, (2) 2/0-250 I, (2) #6-350 kcmil	A, 3P PDG33G Bre I kcmil	aker [400A Frame], Tr	ip 400A., PXR10) LSI	
	3	Feeder Breaker Terminals, Mech Neutral Termina	- Chassis Mtd-400 nanical, (2) 2/0-250 I, (2) #6-350 kcmil	A, 3P PDG33G Bre kcmil	aker [400A Frame], Tr	ip 400A., PXR10) LSI	
	4	Feeder Breaker LSI, None Terminals, Mech Auxiliary switch: Neutral Termina	r - Chassis Mtd-20 nanical, (1) #4-4/0 : 1 NO & 1 NC Aux I, (1) #6-350 kcmil	00A, 3P PDG23G I Contact (Integral)	Breaker [225A Frame]	, Trip 200A., P.	XR10	
	5	Feeder Breaker LSI, None Terminals, Mech Auxiliary switch: Neutral Termina	r - Chassis Mtd-20 nanical, (1) #4-4/0 : 1 NO & 1 NC Aux Il, (1) #6-350 kcmil	00A, 3P PDG23G I Contact (Integral)	Breaker [225A Frame]	, Trip 200A., P.	XR10	
	6	Feeder Breaker LSI, None Terminals, Mech Auxiliary switch: Neutral Termina	r - Chassis Mtd-20 nanical, (1) #4-4/0 : 1 NO & 1 NC Aux I, (1) #6-350 kcmil	00A, 3P PDG23G I Contact (Integral)	Breaker [225A Frame]	, Trip 200A., P	XR10	
	7	Feeder Breaker LSI, None Terminals, Mech Auxiliary switch: Neutral Termina	r - Chassis Mtd-20 nanical, (1) #4-4/0 : 1 NO & 1 NC Aux I, (1) #6-350 kcmil	00A, 3P PDG23G I Contact (Integral)	Breaker [225A Frame]	, Trip 200A., P.	XR10	
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Item Number:	Catalog Number:	Designation:
		MSB







Page: 1 of 1





Application Considerations and Definitions

Eaton's Pow-R-Line® family of distribution switchboards incorporates new design concepts that fit the ever-increasing need for applications on high short-circuit systems, while retaining maximum flexibility, safety and convenience throughout the line.

Front-Access

Front-access switchboards align at the rear, enabling them to be placed against a wall (Type Pow-R-Line Xpert[™] front accessible). If the main section is deeper than others, due to physical size of the main device, the necessary offset in lineup will occur in front, and the main section will be accessible from the side as well as from the front. Eaton also offers front accessible switchboards that align at the front and rear.

Front- and Rear-Access

Front- and rear-access switchboards align at the front and the rear. Bus maintenance and cable entry and exit require rear access.There are two types of rearaccessible switchboards. Both types use the same incoming utility and/or main structures.The first type uses groupmounted feeder devices with panel construction (Type Pow-R-Line Xpert front and rear accessible).The second type uses individually compartmentalized feeder devices with load side insulated bus bar extensions (Type Pow-R-Line *i*X).

Individually Mounted

Larger overcurrent protective devices (OCPD) may be individually mounted. In most cases, this means that the OCPD is mounted vertically in the switchboard and is connected via bus bar. All insulated case circuit breakers, power air circuit breakers and bolted pressure contact switches are individually mounted. Molded case circuit breakers 600 A and above may be individually mounted when used as a main or as a feeder device feeding other OCPD within a section or adjacent sections.

Compartmentalized Feeder and Branch Devices

Compartmentalized molded case circuit breakers and fusible switches provide additional isolation. Individually mounted molded case circuit breakers and fusible switches through 1200 A are available in a compartmentalized, rear-access, rearconnected switchboard. See Pow-R-Line *iX* switchboards in this section for details.

Standard Switchboard Height

Standard Pow-R-Line switchboard height is 90.00 inches (2286.0 mm). Contact Eaton for special heights.

Group Mounting

Group-mounted circuit protective devices are an assembly of units mounted on a panelboard type chassis. Units may be molded-case breakers, fusible switches, customer metering and surge protective devices.

A main molded case breaker or main fusible switch, within the sizes listed for panelboard design, can be included in the panel-mounted assembly in lieu of a separate, individually mounted unit.

Space Only for Future Devices Group-Mounted Construction

Where space only for future circuit protective devices is required, the proper space and a blank filler plate will be supplied. Connections and mounting hardware are not included.

Provision for Future Devices

Where provisions for future circuit protective devices are required, space for the device, corresponding vertical bus, device connectors and the necessary mounting hardware will be supplied.

Bus Bar System

Standard bus in the switchboards is tin-plated aluminum. Copper, silverplated copper or tin-plated copper are also available.

Main bus and sub-main buses meet UL® and NEMA® standards for temperature rise on all Pow-R-Line switchboards. Special density rated bus is available.

Overcurrent Devices

To properly select and size overcurrent devices for use in a switchboard, the allowable temperature rise must be taken into account as to its effect on the tripping characteristics of the devices in question per UL 891.

Accordingly, the NEC[®] requires overcurrent devices to be rated not less than 125% of the continuous load they are protecting. To comply with this, an 80% derating factor must be used with all overcurrent devices such as molded case breakers and FDPW fusible switches unless they are tested and listed for application at 100% of the rating. All Magnum[™] type breakers and bolted pressure switches are 100% rated.

Short-Circuit Rating

Standard bus and connectors on all switchboards are rated for use on systems capable of producing up to 65,000 A rms symmetrical short-circuit current at the incoming terminals.

Increased bus short-circuit ratings equal to that of connected switchboard devices, up to 200,000 A rms symmetrical, are available in most Pow-R-Line Xpert switchboards when approved main devices are installed. UL labeled switchboard sections are marked with their applicable short-circuit rating.

When air power circuit breakers are used as feeder devices in a switchboard, these devices may experience up to a 30-cycle (1/2 second) delay if the instantaneous setting is turned off. Eaton has qualified our low voltage switchboards when air power circuit breakers are used as feeders (and mains) to 30 cycles. This rating is not recognized under the UL 891 standard. However, Eaton has witness tested the structure bussing with a qualified National RecognizedTesting Laboratory (NRTL) at 30 cycles (1/2 second) up to 100 kAIC symmetrical.

Provision for Busway Entrance and Exit

Busway connections to switchboard sections include cutout and drilling in the top of the switchboard with riser connections from the switchboard device or bus, up to the point where the bus duct enters the switchboard. No connections are furnished external to the switchboard.

In all transactions involving busway attached to switchboards, it is essential that information regarding orientation of the busway with respect to the front of the switchboard be supplied to the coordinating assembly plant.

On Pow-R-Line Xpert switchboards, a solid bus bar is used to connect the bus duct to the individually mounted main device, main or sub-main switchboard bus, or vertical main bus of panelmounted circuit protective device panels. **Busway fed by group-mounted branch devices are cable connected**.

Aluminum riser connections are standard. Copper- or silver-plated copper is available as an option.

Transitions

Transition structures are required for connecting switchboards to the secondary of power center transformer (fluid filled), motor control centers, and for other special switchboard configurations such as "L" or "U" shaped lineups. In some applications, an extra structure complete with connections is required; in others, where switchboard depth and space permit, only the connection conductors are required. Refer to Eaton for these applications.

Auxiliary Structures

These are normally mounted adjacent to service structures or distribution structures, and used where incoming service or feeder conductors require additional space or facilities not included in the standard switchboard, such as:

 Mounted adjacent to a top connected service structure and used as a cable pull structure where service conductors are brought in underground. Auxiliary structures are the same depth and height as the service structure, and are wide enough to accommodate the incoming cables. Mounted adjacent to a service structure and used as a bus transition compartment for running riser bus from the load-side of the service structure up to top outgoing bus duct connection when distribution structures are not required. Auxiliary structures are the same depth and height as service structures.

In addition to the above applications, auxiliary structures may be mounted adjacent to a distribution structure and used as a structure for lighting panel or other device that may be cable-connected to a branch circuit device in the distribution structure. Dimensions are compatible with the arrangements required.

Switchboards Used as Service Equipment

Service equipment is the electrical equipment that constitutes the main control and means of power cutoff the electric service (normally Power Company supply) brought into the building.

Where switchboards are to be used as service equipment, certain NEC and UL requirements apply that necessitate modifications not normally supplied in switchboards.

The following is a summary of the requirements that are pertinent to the application of a switchboard for service equipment:

A. A switchboard with main lugs only (no main disconnect) must be designed so that all circuits in the switchboard can be disconnected from the supply source by the operation of no more than six operating handles (breaker or switch).

Switchboard equipped with main disconnect devices are not subject to the above six disconnect limitation, as the entire board can be de-energized with the main disconnect device.

Ground fault protection of equipment must be provided for solidly grounded wye electrical services of more than 150 V to ground, but not exceeding 600 V phase-to-phase for each service disconnecting means rated 1000 A or more. B. For testing purposes, means are also required to disconnect the switchboard neutral bus from the grounded service neutral conductor (single-phase, three-wire; and three-phase, fourwire systems). To comply with this requirement, a removable link (solid bar) is provided in the switchboard neutral bus. This link is generally located near the point where the main feeders enter the switchboard or in the area of the main disconnect device where one is provided.

To further comply with NEC and UL requirements, a separate bonding strap is connected from the neutral bus to the switchboard frame. This bonding connection is located on the line side of the removable neutral link, maintaining a service ground to the switchboard frame when the test link is removed. See **Figure 21.1-1**.



Figure 21.1-1. Neutral Link

UL labeling will clearly indicate service equipment listed switchboards.

Underwriters Laboratories Requirements and Labeling

The basic requirement for obtaining a UL label on a switchboard, is that all the component devices (breakers, switches, and so on) in the switchboard assembly are UL listed. In addition, the switchboard must comply with all applicable provisions of UL 891.

Today's modern electrical systems require that switchboards offer a wide selection of electrical devices, many of which do not fall within the scope of UL listed devices. Therefore, the conditions under which a switchboard may be labeled are limited.

Listed below are several important guidelines for consideration when a UL label is specified:

- UL nameplates, where applicable, are supplied for each vertical structure rather than one common nameplate for the complete switchboard lineup. Where all of the component devices in the switchboard are UL listed and all applicable provisions of UL 891 are met, each of the switchboard sections may be labeled.
- 2. Individual vertical structures of a switchboard may be labeled where they comply with UL requirements, although other vertical structures in the same switchboard lineup may not meet the UL standards, and will not be labeled.
- 3. All Pow-R-Line Xpert switchboards are UL labeled when all mounted devices are UL listed.

Alternate Power Source Capabilities

Multiple solutions are available to accommodate alternate power sources available. Due to the large number of customer and system requirements, details are not provided in this guide. Eaton offers solutions that include main-main configuration and main-tiemain configurations. Automatic transfer equipment, including UL 1008 listed transfer switches and other automatic transfer schemes, are available.

Automatic Transfer Equipment

For continuity of service, automatic transfer equipment between two incoming sources may be required. This equipment transfers the load upon failure of the normal (or preferred) source to the standby (or alternate) source. Upon restoration of the normal source, the load is automatically transferred back to it. To accomplish this, electrically operated main protective devices (and bus tie devices, if required) must be employed. Additional relays also are required to detect source voltage failure and to transfer control power, when required. A manual selector switch is usually provided to select the mode of operation-automatic or manual transfer.

Seismic Qualification



Refer to Power Distribution Systems Design Guides for information on seismic qualification for this and other Eaton products.

Product Overview

Pow-R-Line Xpert switchboards meet NEMA Standard PB-2 and UL 891.

Construction Details

- 6000 A main bus maximum
- Front accessible main sections front- and/or side-access
- Front- and rear-access; main sections front- and/or side-access
- Feeder devices group-mounted
- Sections rear-aligned or front- and rear-aligned

Main Devices, Individually Mounted

- Power Defense[™] molded case circuit breakers, 400–2500 A,fixed-mounted
- Insulated case circuit breakers, Magnum SB, 800–5000 A, fixed and drawout
- Air power circuit breakers, Magnum DS, 800–5000 A, fixed or drawout
- Air power circuit breakers with current limiting fuses, Magnum DSL, 800–5000 A
- Bolted pressure switches, 800–5000 A, fixed
- Insulated case circuit breakers, Series NRX™ NF, 800–1200 A, fixed and drawout
- Insulated case circuit breakers, Series NRX RF, 800–3000 A, fixed and drawout
- Fusible switches, 400–1200 A, fixed

Feeder Devices, Group-Mounted

- Bolt-on Power Defense molded case circuit breakers, 15–1200 A
- Drawout molded case circuit breakers, 70–1200 A
- Fusible switches, 30–1200 A



Pow-R-Line Xpert Switchboard

Feeder Devices, Individually Mounted

- Power Defense molded case circuit breakers, 800–2500 A, fixed
- Insulated case circuit breakers, Magnum SB, 800–5000 A, fixed and drawout
- Air power circuit breakers, DS and Magnum DS, 800–4000 A, fixed and drawout
- Insulated case circuit breakers, Series NRX NF, 800–1200 A, fixed and drawout
- Insulated case circuit breakers, Series NRX RF, 800–3000 A, fixed and drawout
- Bolted pressure switches, 800–1600 A, fixed

Selective Coordination

Selectively coordinated systems dictated by code and customer mandates may be achieved with Eaton switchboards to either 0.1 or 0.01 seconds as mandated by codes and/or customers. Refer to Power Distribution Systems Design Guides for additional details.

Note: For selection and layout guidelines, please reference **Page 21.1-17**.

Features

- Eaton's circuit breaker ratings up to 200 kAIC
- Trip units that integrate Eaton's Arcflash Reduction Maintenance System™ reduces potential arc flash available
- Integral ground fault protection available in electronic trip units from 15–5000 A
- Electronic trip units that integrate zone selective interlocking capabilities available in molded case, insulated case and air power circuit breaker
- Available with circuit breakers and fusible switches on the same chassis



The Single Chassis Design Provides Device Flexibility

- UL listed and labeled. Meets NEC and NEMA standards
- Eaton microprocessor-based metering devices are standard when metering is specified. Conventional metering is available. Power Xpert Meter devices can provide a communications capability. See Advanced and Electronic Metering Design Guides for more information
- Optional integral surge protective device (SPD) is available in Pow-R-Line Xpert switchboards, when specified. See Surge Protection (SPD) & Power Conditioning Products Design Guides for more information
- Aluminum, copper or silver-plated copper bus
- A full range of device modifications is available
- Available in NEMAType 1 and 3R enclosures, UL listed

Modifications

- Ground fault protection on mains and distribution devices
- Coordination with other Eaton divisions for busway and transformer connections



Type 1 Pow-R-Line Xpert Features

(6) 250 A frame single mount.

(7) 600 A frame single mount.

(8) 250 A frame dual mount.

(9) 600 A frame dual mount.

- 1) Customer metering.
- (2) Utility metering compartment.
- ③ Surge protective device.
- ④ Main breaker (Magnum SB).
- (5) Cable pull and termination space.

Table 21.1-1. Pow-R-Line Xpert Group-Mounted Switchboards Voltage: 240–480–600 Vac, 250 Vdc Mains: 400–6000 A

Main Device Type	Amperes	Short-Circuit Symmetrical Rating (kA)
Molded case circuit breakers Insulated case circuit breakers, Magnum SB Insulated case circuit breakers, Series NRX NF Insulated case circuit breakers, Series NRX RF Air power circuit breakers, Magnum DS Air power circuit breakers with CL fuses, DSL	400-2500 800-5000 800-1200 800-3000 800-5000	14–200 30–100 65–85 65–100 200
Bolted pressure switches Fusible switches Main lugs only	800-5000 400-1200 400-6000	200 200 Rating determined by overcurrent protective device

Feeder Device Type	Amperes	Short-Circuit Rating (kA)
Bolt-on, fixed-mounted molded case circuit breakers	15–2500	10-200
Drawout, molded case circuit breakers	70–600	10-200
Fusible switches	30–1200	200
Stacked — main with branch devices	400–2500	18-200
Magnum SB up to two high	800–2000	30–100
Magnum DS up to two high ®	800–2000	30–100
Series NRX NF up to two high and quad stack	800–1200	65
Series NRX RF up to two high	800–3000	65–100

① 5000 A bolted pressure switches are not UL listed.

② Third-party witness tested at 30 cycles.



Power Defense molded case circuit breakers Frame size 6 (700–2500 A)





configurator

Shown: PD6 3-pole with PXR 25 trip unit

Dimensions and weights

Approximate dimensions in inches (mm)

Number of poles	Width	Height	Depth		
2	15.50 (393.7)	16.00 (406.4)	9.75 (247.7)		
3	15.50 (393.7)	16.00 (406.4)	9.75 (247.7)		
4	20.00 (508.0)	16.00 (406.4)	9.75 (247.7)		

Approximate shipping weight in lb (kg)

Breaker type	2-Pole	3-Pole	4-Pole
PDG6 1600 and 2000 A	102 (46.3)	102 (46.3)	135 (61.2)
PDG6 2500 A	135 (61.2)	135 (61.2)	182 (82.6)

Trip unit ratings

Poles	Continuous current rating	Trip units
2-, 3-, 4-pole Electronic	1600, 2000, 2500, adjustable range (700–2500)	E##, D##, P## ❶

All #s refer to protection and options. Refer to the MCCB catalog or Power Defense poster for more information. Direct links are below.

Additional information





± MCCB catalog





Catalog number/product selection

м

kA rms

Interrupting ratings

Catalog designator Frame size 6

240 Vac	125		150		200	
480 Vac	65		85		100	
600 Vac	35		50		65	
IEC	l _{cu}	l _{cs}	lcu	lcs	lcu	Ics
240 Vac	135	100	150	100	200	100
380–415 Vac	70	53	70	53	100	53
440 Vac	50	40	70	50	100	50
480 Vac	50	30	65	40	85	40
525 Vac	30	25	35	25	40	25
660–690 Vac	15	7.5	20	13	35	18

Ν

kA rms

Р

kA rms

Terminals

UL/CSA

Maximum breaker amperes	Terminal body type	Wire type	Wire class	Number of conductors per phase	AWG/kcmil range per conductor	Metric (mm²) range per conductor	3-Pole catalog number 0
Aluminum ter	minals						
1600	Aluminum	Cu/Al	B, C	4	500-1000	253–507	PDG6X1TA1600
2000	Aluminum	Cu/Al	B, C	6	2–600	33.6–304	PDG6X3TA2000 @
Copper termin	nals						
1600	Copper	Cu	В, С	4	1–600	42.4–304	PDG6X1T1600

Add M at end for metric hardware.

Only available for 3-pole breaker; order quantity 1 per breaker side, or quantity 2 per breaker.

Trip units

Description	Specification	
Trip unit		
Interchangeable trip units	Yes	
Molded case switch (K)	Fixed magnetic	
Electronic		
PXR 20 (E) current metering / comm opt.	LSI, LSIG, ALSI, ALSIG	± PXR
PXR 20D (D) current metering / comm std.	LSI, LSIG, ALSI, ALSIG	- electronic
PXR 25 (P) power metering / comm std.	LSI, LSIG, ALSI, ALSIG	- the units

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Power Defense molded case circuit breakers Frame size 5 (320–1200 A)





Frame size 5 configurator

Shown: PD5 3-pole with PXR 25 trip unit

Dimensions and weights

Approximate dimensions in inches (mm)

Number of poles	Width	Height	Depth		
2	8.25 (209.5)	16 (406.4)	5.50 (139.7)		
3	8.25 (209.6)	16 (406.4)	5.50 (139.7)		
4	11.13 (282.7)	16 (406.4)	5.50 (139.7)		

Approximate shipping weight in lb (kg)

Breaker type	2-Pole	3-Pole	4-Pole	4-Pole		
PDG5 800, 1200 and 1600 A 0	46.8 (21.30)	46.8 (21.30)	58 (26.31)			

1600 A frame is IEC only.

Trip unit ratings

Poles	Continuous current rating	Trip units
2-, 3-, 4-pole	400, 800, 1200,	E##, D##,
Electronic	adjustable range (150–1200)	P## 0

• All #s refer to protection and options. Refer to the MCCB catalog or Power Defense poster for more information. Direct links are below.

Additional information

⊻ Time

curve



▲ MCCB catalog





Catalog number/product selection

Interrupting ratings

Catalog designator	к		м		N		Р		т	
UL/CSA	kA m	15	kA rm	IS	kA rm	IS	kA rm	IS	kA rn	ns
240 Vac	85		100		150		200		200	
480 Vac	50		65		85		100		150	
600 Vac	25		35		50		65		65	
IEC	Icu	Ics	Icu	l _{cs}	Icu	Ics	I _{cu}	l _{cs}	l _{cu}	Ics
240 Vac	85	85	100	100	150	100	200	150	—	—
380–415 Vac	50	50	70	53	70	50	100	50	—	—
440 Vac	35	35	50	40	70	50	100	50	—	—
480 Vac	35	22.5	50	30	65	40	85	40	—	_
525 Vac	25	20	30	25	35	25	40	25	—	_
660–690 Vac	10	5	15	7.5	20	10	35	18	_	_

Terminals

Maximum breaker amperes	Terminal body type	Wire type	Wire class	Number of conductors per phase	AWG/kcmil range per conductor	Metric (mm²) range per conductor	3-Pole catalog number ❶
Aluminum te	rminals						
700	Aluminum	Cu/Al	B, C	2	1-500	42.4–253	PDG5X1TA700
1000	Aluminum	Cu/Al	B, C	3	3/0-400	85–203	PDG5X1TA1000
1200	Aluminum	Cu/Al	B, C	4	4/0-500	107–253	PDG5X1TA1200
1200	Aluminum	Cu/Al	B, C	3	500-750	253-380	PDG5X1TA1201
Copper termi	nals						
700	Copper	Cu	B, C	2	2/0-500	67.4–253	PDG5X1T700
1000	Copper	Cu	B, C	3	3/0-500	85–253	PDG5X1T1000
1200	Copper	Cu	В, С	4	3/0-400	85–203	PDG5X1T1200

Add M at end for metric hardware.

Trip units

Description	Specification	
Trip unit		
Interchangeable trip units	Yes	
Molded case switch (K)	Fixed magnetic	
Electronic		
PXR 20 (E) current metering / comm opt.	LSI, LSIG, ALSI, ALSIG	<u> </u> ₽ XR
PXR 20D (D) current metering / comm std.	LSI, LSIG, ALSI, ALSIG	electronic
PXR 25 (P) power metering / comm std.	LSI, LSIG, ALSI, ALSIG	the units

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Power Defense molded case circuit breakers Frame size 3 (45-600 A)





Frame size 3 configurator

Shown: PD3 3-pole with PXR 25 trip unit

Dimensions and weights

Approximate dimensions in inches (mm)

Number of poles	Width	Height	Depth
2	5.47 (138.9)	10.13 (257.1)	4.30 (109.1)
3	5.47 (138.9)	10.13 (257.1)	4.30 (109.1)
4	7 22 (182 9)	10 13 (257 1)	4 30 (109 1)

Approximate shipping weight in lb (kg)

Breaker type	2-Pole	3-Pole	4-Pole
PDG3 400 A	8.05 (3.65)	11.02 (5.0)	13.77 (6.25)
PDG3 600 A	10.43 (4.73)	12.36 (5.61)	16.27 (7.39)

Trip unit ratings

Poles	Continuous current rating	Trip units
2-, 3-, 4-pole Thermal-magnetic	100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 500, 600	tfa, vfa
3-, 4-pole Electronic	125, 250, H250, 400, H400, 600, adjustable range (45–600) ①	B2N, E##, D##, P## ❷

• H as the leading character of the ampacity indicates a high instantaneous version of the breaker for coordination purposes. H ratings must use 600 A frame.

2 All #s refer to protection and options. Refer to the MCCB catalog or Power Defense poster for more information. Direct links are below.

Additional information



catalog





poster

Catalog number/product selection

Interrupting ratings

Catalog designator	F		G		к		м 0		N O		P 0	
UL/CSA	kA rm	s	kA rm	S	kA rm	IS	kA rm	s	kA rm	s	kA rm	s
240 Vac	35		65		85		100		150		200	
480 Vac	25		35		50		65		85		100	
600 Vac	14		18		25		35		50		65	
250 Vdc 23	10/22		10/22		10/22		22/42		22/42		22/42	
IEC	I _{cu}	I _{cs}	I _{cu}	I _{cs}	I _{cu}	I _{cs}	I _{cu}	l _{cs}	I _{cu}	I _{cs}	I _{cu}	I _{cs}
240 Vac	35	35	55	55	85	85	100	100	150	100	200	150
380–415 Vac	25	25	36	36	50	50	70	53	70	70	100	70
440 Vac	25	20	30	22.5	35	35	50	40	70	50	100	50
480 Vac	20	20	25	20	35	22.5	50	30	65	40	85	40
525 Vac	18	5	20	7.5	25	10	30	15	35	25	40	25
660–690 Vac	_	_	8	4	10	5	15	7.5	20	10	20	10
250 Vdc 23	10/22	10/22	10/22	10/22	10/22	10/22	22/42	22/42	22/42	22/42	22/42	22/42

onstruction breakers.

ising two poles in series.

Terminals

Maximum breaker amperes	Breaker frame	Terminal body type	Wire type	Wire class	Number of conductors per phase	AWG/ kcmil range per conductor	Metric (mm²) range per conductor	3-Pole catalog number
Standard te	rminals							
300	400	Aluminum	Cu/Al	B, C	1	3–350	26.7-177	PDG3X3TA300 0
350	400	Aluminum	Cu/Al	B, C	1	250-500	127–253	PDG3X3TA350 0
400	400	Aluminum	Cu/Al	B, C	2	3/0-250	85–127	PDG3X3TA400 @
400	600	Aluminum	Cu/Al	B, C	1	500-750	253–380	PDG3X3TA401H @
630	600	Aluminum	Cu/Al	B, C	2	2–500	33.6–253	PDG3X3TA630 @

No accessories included.

Terminal shield included.

Trip units

Description	Specification	
Trip unit		
Interchangeable trip units	Yes	
Thermal-magnetic (T)	Fixed thermal-adjustable magnetic	
Molded case switch (K)	Fixed magnetic	
Motor circuit protector (M)	Adjustable magnetic only (3-pole)	<u></u>
Electronic		electronic
PXR 10 (B) adjustable LSI	LSI, MLSI	trip units
PXR 20 (E) current metering / comm opt.	LSI, LSIG, ALSI, ALSIG	
PXR 20D (D) current metering / comm std.	LSI, LSIG, ALSI, ALSIG	
PXR 25 (P) power metering / comm std.	LSI, LSIG, ALSI, ALSIG, MLSI, MLSIG	

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UL current limiting. M interrupting rating only current limiting for the 400 A co
OC ratings available in thermal-magnetic breakers only. 250 Vdc is achieved us
First rating listed is for 400 A frame, second rating is for 600 A frame.



Power Defense molded case circuit breakers Frame size 2 (15–225 A)





Frame size 2 configurator

Shown: PD2 3-pole with PXR 25 trip unit

Dimensions and weights

Approximate dimensions in inches (mm)

Number of poles	Width	Height	Depth	
1	1.38 (35.1)	6.00 (152.4)	3.50 (88.9)	
2	2.75 (69.9)	6.00 (152.4)	3.50 (88.9)	
3	4.12 (104.6)	6.00 (152.4)	3.50 (88.9)	
4	5.49 (139.5)	6.00 (152.4)	3.50 (88.9)	

Approximate shipping weight in lb (kg)

Breaker type	1-Pole	2-Pole	3-Pole	4-Pole
PDG2 225 A	2.00 (0.91)	3.00 (1.36)	4.21 (1.82)	5.69 (2.46)

Trip unit ratings

Poles	Continuous current rating	Trip units
1-pole Thermal-magnetic	15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150	TFF, VFF
2-, 3-, 4-pole Thermal-magnetic	15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225	TFF, VFF
3-, 4-pole Electronic	60, 100, 150, 225, adjustable range (15–225)	B2N, E##, D##, P## ❶

• All #s refer to protection and options. Refer to the MCCB catalog or Power Defense poster for more information. Direct links are below.

curve

Additional information



业 MCCB catalog





poster

Catalog number/product selection

Interrupting ratings (2-, 3- and 4-pole)

Catalog designator	F	G	КО	м 0	N O	P 0
UL/CSA	kA rms	kA rms				
240 Vac	35	65	85	100	150	200
480 Vac	25	35	50	65	85	100
600 Vac	14	18	22	25	30/25 3	35/25 🕑
250 Vdc 🛛	2	10	10	10	22	22 22

UL current limiting for 3- and 4-pole breakers.

DC ratings available in thermal-magnetic breakers only. 250 Vdc is achieved using two poles in series.

Sirst rating listed is for thermal-magnetic breakers, second rating is for breakers with PXR electronic trip units.

Terminals

Maximum breaker amperes	Breaker frame O	Terminal body type	Wire type	Wire class	Number of conductors per phase	AWG/kcmil range per conductor	Metric (mm²) range per conductor	3-pole catalog number
Standard te	erminals							
100	15–100	Steel	Cu/Al	В, С	1	14—1/0	2.08–53.5	PDG2X3T100 @@
225	60–225	Aluminum	Cu/Al	B, C	1	4-4/0	21.2–107	PDG2X3TA225
Alternate terminals								
50	15–50	Aluminum	Cu/Al	B, C	1	14—4	2.08–21.2	PDG2X3TA50 O
100	60–100	Aluminum	Cu/Al	B, C	1	14-1/0	2.08–53.5	PDG2X3TA100 O
150	60–150	Aluminum	Cu/Al	B, C	1	14-4/0	2.08–107	PDG2X3TA150 6
225	175–225	Aluminum	Cu/Al	B, C	1	6–300	13.3–152	PDG2X3TA225K

• The "Breaker frame" column provides information on the ampere ratings for which the terminal may be used (field installation); in some cases the range is limited by proper fit of the terminal onto the breaker conductor. The column "Standard on Amperes" provides information on what terminal is used during factory configuration per Digit 14 of the breaker catalog number. The two may not match.

No accessories included.

PDF2 225 A breakers with Digit 14 designation of "J" are equipped with PDG2X3TA225K terminals. PDF2 150 A breakers with Digit 14 designation of "J" are equipped with PDG2X3TA225 terminals.

S Terminal shield included.

Trip units

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Description	Specification	
Trip unit		
Thermal-magnetic (T)	Fixed thermal-fixed magnetic	
Molded case switch (K)	Fixed magnetic	
Motor circuit protector (M)	Adjustable magnetic only (3-pole)	
Electronic		<u> </u>
PXR 10 (B) adjustable LSI	LSI, MLSI	electronic
PXR 20 (E) current metering / comm opt.	LSI, LSIG	
PXR 20D (D) current metering / comm std.	LSI, LSIG	
PXR 25 (P) power metering / comm std.	LSI, LSIG, MLSI, MLSIG	

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Pactory standard terminals and non-aluminum terminals for 100 A and below a

ire	the	same	termina	ls.	



Power Xpert Release (PXR) electronic trip units

MCCB PXR 25 trip unit



MCCB PXR 10



MCCB PXR 20



MCCB PXR 20D





MCCB PXR features

Features	PXR 10	PXR 20	PXR 20D	PXR 25
Protection types	LSI	LSI/LSIG	LSI/LSIG	LSI/LSIG
Status indication	•	•	•	•
USB secondary injection testing	•	•	•	•
Programmable by USB port (PXPM)	•	•	•	•
Independent instantaneous adjustment	•	•	•	•
Adjustable L, S, I, G pickup and time		•	•	•
Cause of trip indication		•	•	•
Load alarm indication with 2 levels		•	•	•
Programmable load alarm levels			•	•
Ground fault protection and alarm		0	0	0
Arcflash Reduction Maintenance System™ (ARMS) Available PD3, PD4, PD5, PD6 to meet NEC 240.87 requirements		0	0	0
Zone selective interlocking (ZSI) with indication		0	0	0
Programmable relays		0	•	•
Modbus RTU communication		0	•	•
CAM module communication		0	0	0
Rotatable LCD display			•	•
Breaker health and diagnostic monitoring			•	•
Current metering accuracy		2.0%	0.5%	0.5%
Voltage metering accuracy				0.5%
Power and energy metering accuracy				1.0%

Standard

O Optional

Available through USB port (PXPM)

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