### **GENERAL REQUIREMENTS** CONSTRUCTION MEANS AND METHODS:

- **A.** Contractor agrees that Contractor shall assume sole and complete responsibility for job site conditions during the course of the work, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that Contractor shall defend, indemnify, and hold Owner and Structural Engineer harmless from any and all liability, real or alleged, in connection with the performance of the Work on this Project, excepting for liability arising from the sole negligence of Owner or Structural Engineer
- **B.** The Contract Documents represent the finished structure. They do not include the method of construction. Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing, shoring for loads due to construction equipment, temporary structures, and partially completed work. Observation visits to the site by Structural Engineer shall not include inspection of the above items.
- **C.** Frontenac Engineering Group shall not have control over, or charge of, and shall not be responsible in any way for construction means, methods, techniques, sequences, or procedures, or for safety or safety precautions and programs in connection with any construction activities, since these are solely Contractor's responsibility under the Contract.
- **D.** Frontenac Engineering Group shall not be responsible for Contractor's schedule or failures to carry out any construction activities in accordance with the Contract Documents. Frontenac Engineering Group shall not have control over or charge of actions of Contractor, Subcontractor, or any of their Agents, or employees, or any other persons performing portions of any construction activities.
- **E.** The structure is stable only in its completed form. Temporary supports required for stability of the structure during all intermediate stages of construction shall be designed and provided by Contractor.
- SUBMITTALS:
- **A.** Submittals prepared by Subcontractors shall be reviewed by Contractor prior to submitting to Architect
- **B.** Reproduction of the Contract Documents for Shop Drawings is not permitted. Electronic
- drawing files will not be provided to Contractor. **C.** Contractor shall verify the structurally supported equipment weights, opening sizes, and locations indicated on the Structural Drawings with documents from other disciplines and
- notify Architect of any discrepancies. **D.** Contractor shall submit Shop Drawings showing size, method of anchorage, weight, openings, and locations of equipment not indicated on the Structural Drawings prior to
- ordering for review by Structural Engineer to determine adequacy of the structure. E. All submittals reviewed by Structural Engineer are reviewed for general conformance with design concept only and does not relieve the fabricator/vendor of responsibility for conformance with Construction Documents and Specifications, all of which have priority
- over submittals F. Submittals shall be reviewed within 10 working days after being received by Structural

### Engineer QUALITY REQUIREMENTS

- **A.** Reference to standard specifications or codes of any technical society, organization, or association, or to codes of local or state authorities, shall mean the standards in effect as of date of the Contract Documents, unless otherwise noted.
- **B.** Contract Documents shall govern in the event of a conflict with standard specifications or codes of any technical society, organization, or association. **C.** No provision of any referenced standard specification or code, whether or not specifically
- incorporated by reference in the Contract Documents, shall be effective to change the duties and responsibilities of Owner, Architect, Structural Engineer, Contractor, or any of their Consultants, Agents, or employees from those set forth in the Contract Documents, nor shall it be effective to assign to Structural Engineer or any of Structural Engineer's Consultants, Agents, or employees any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake
- responsibilities contrary to the provisions of the Contract Documents. **D.** If Structural Documents are being released prior to Documents of other disciplines,
- Contractor shall coordinate Structural Documents with other portions of the Contract Documents as they are released. Report any discrepancy or omission to Architect. **E.** All omissions and conflicts within the Contract Documents shall be brought to the
- attention of Architect prior to proceeding with the Work. **F.** Contractor shall verify dimensions and conditions at the job site. Any discrepancies
- between the conditions found and those indicated in the Contract Documents shall be brought to the attention of Architect prior to proceeding with the Work. **G.** Refer to Documents by other disciplines for floor, wall, and roof openings, trenches, pits,
- pipe sleeves, equipment pads, metal pan stairs, miscellaneous iron, etc. **H.** No pipes, ducts, chases, etc. shall be placed in structural beam and column members nor shall any structural member be cut for pipes, ducts, etc., unless noted otherwise. Notify Structural Engineer when Documents by other disciplines show openings, pockets, etc. not indicated in the Structural Drawings, but are located in structural members.
- Contractor shall obtain prior approval from Structural Engineer for installation of such ides, ducts, chases, etc. I. Details labeled "Typical" on the Structural Drawings apply to all situations occurring on Project that are the same or similar to those locations specifically indicated. Where a
- detail is not indicated, the detail shall be the same as for other similar conditions. J. Contractor designed elements shall be designed by licensed Professional Engineers registered in the State where Project is located. Contractor shall submit Shop Drawings, design load data, support reactions, and certification that elements were designed for loads specified in the Contract Documents or in the Building Code. All documents noted
- shall be sealed by the licensed Engineer. If criteria indicated are not sufficient, submit a written request for additional information to Architect. The following elements and their connections shall be "Contractor designed": **a.** Window and curtain wall systems **b.** Skylights

## SPECIAL INSPECTIONS:

- A. Special inspections shall be in accordance with the 2018 International Building Code,
- **B.** The Owner or Owner's authorized agent, other than the Contractor, shall employ one or
- more approved agencies to provide special inspections per the Building Code.
- C. Special inspection reports shall be furnished to Building Official, Owner, Architect, Structural Engineer, and Contractor. Discrepancies shall be brought to the attention of Contractor, and if not corrected, shall be reported to Building Official, Owner, Architect,
- and Structural Engineer. **D.** The Special Inspector shall submit a final report stating that the structural work was, to the best of the Special Inspector's knowledge, performed in accordance with the Contract
- Documents. E. The following types of work require Special Inspections: (Refer to the Building Code for
- detailed inspection requirements.)
- a. Prepared Soil Fill
- b. Concrete Construction c. Steel Construction
- d. Masonry Construction
- **DESIGN CRITERIA:**
- **A.** The structure is designed in accordance with the International Building Code, 2018 Edition and International Existing Building Code, 2018 Edition.
- **B.** Gravity Loads:
- a. Uniform Roof Loads:
  - 1. Live Load: 20 psf
  - Dead Load: 15 psf Snow Load: 20 psf
- C. Lateral Loads:
- a. Wind Load:
  - Ultimate Wind Speed: 120 MPH Risk category: III
- **3.** Wind Exposure: Type B
- b. Seismic Load:
  - Basic Structural System: Structural System not specifically detailed for seismic Seismic Resisting System: Structural System not specifically detailed for seismic
  - Response Modification Coefficient, R: 3
  - Analysis Procedure: Equivalent lateral force procedure Zip Code: 63137
  - Risk Category III
  - Site Class B
  - MCE short periods spectral response acceleration, S<sub>s</sub>: 60.00
- MCE 1.0 second period spectral response acceleration, S<sub>1</sub>: 20.00 10. 0.3 seconds acceleration-based site coefficient, F<sub>a</sub>: 0.90
- 11. 1.0 seconds velocity-based site coefficient,  $F_v$ : 0.80
- 12. Short periods spectral response acceleration for site class effects, S<sub>ms</sub>: 0.540
- 13. 1.0 second period spectral response acceleration, S<sub>m1</sub>: 0.160
- 14. Short periods spectral response acceleration, S<sub>DS</sub>: 0.360 15. 1.0 second period spectral response acceleration for site class effects, S<sub>D1</sub>: 0.107
- Occupancy Importance Factor, I: 1.25 16.
- Seismic Design Category C 17.
- 19. Design is Seismic Governed

### **MISCELLANEOUS** GENERAL:

- A. Become thoroughly familiar with the contract documents during the bid period. resolve apparent deficiencies, omissions, contradictions, inconsistencies and ambiguities in contract documents with architect/engineer during the bid period. if any such condition cannot be resolved during the bid period, submit bid using the interpretation resulting in the
- greatest cost and resolve such items prior to beginning the work. B. Prior to starting construction, excavation, shop drawings, and prior to ordering materials: a. Check dimensions and elevations shown on structural drawings against architectural
- drawings. secure direction concerning missing or conflicting information from owner's authorized representative b. Survey and report floor and roof elevations of the existing building(s) with connections
- to this building. c. Field verify dimensions and elevations relating to existing conditions. Adjustments to plan dimensions and elevations of less than 6" to accommodate existing conditions
- shall be included in the contractor's bid and will not be considered a change in the work. C. Use structural drawings with other contract documents, including those issued before and after the structural documents, and combine requirements into shop drawings and work.
- D. Typical details, typical notes and general notes are applicable to all occurrences of the conditions depicted in the details or described in the notes unless other details or notes are provided for the condition.
- E. No repair, correction, modification, or alteration, shall be made without prior review and acceptance of the structural engineer. Submit details and calculations prepared by a professional engineer registered in the state where the project is located and employed by contractor. A/E review is contractor's expense.

MECHANICAL FASTENERS

- Install powder-actuated fasteners according to the manufacturer's recommendations. B. Powder-actuated fasteners shall be manufactured from AISI 1070 modified steel, tempered to a Rockwell C Hardness of 52 - 58. Fasteners shall have minimum tensile and shear
- strengths of 285 ksi and 182 ksi respectively. C. Powder-actuated fasteners shall have ballistic points, knurled shanks and minimum 12-mm diameter steel washers.
- D. Powder-actuated fasteners shall be zinc plated to a thickness of 5mm in accordance with ASTM B633, Sc. 1, Type III.
- E. Powder-actuated fasteners shall be UL listed for fire resistance, wind and uplift, FM listed for uplift and recognized by ICC-ES for diaphragm shear strength and stiffness in accordance with the latest version of ICC-ES AC43. Sidelap connectors shall be FM listed for wind uplift and recognized by ICC-ES for diaphragm shear strength and stiffness in
- accordance with the latest version of ICC-ES AC 43. Powder-actuated fasteners on exposed roof decks shall be covered with stainless steel
- sealing caps conforming to SAE 316 with internal and external diameters of 7 and 22 mm respectively and integral black, closed-cell neoprene washers with 0.200 g/cm3 density. G. Approved sidelap connectors shall be Hilti S-SLC 01 M HWH or S-SLC 02 M HWH sidelap
- connectors at locations and spACIng shown on drawings. H. Sidelap connectors on exposed roof decks shall be Hilti S-MD 1/4-14 x 7/8 HWH Stitch
- Kwik Seal sidelap connectors with integral black, closed-cell neoprene sealing washers. POST-INSTALLED ANCHORS
- Post-installed anchors shall only be used where specified on the construction documents. Special inspections (are/ are not) required per the provisions set forth in below referenced code reports. Contractor to contact manufacturer's representative for proper product installation training on initial anchors. Substitution requests, for products other than those specified below, shall be submitted by the contractor to the engineer-of-record along with calculations that are prepared & sealed by a registered professional engineer. The calculations shall demonstrate that the substituted product is capable of achieving the pertinent equivalent performance values (minimum) of the specified product using the appropriate design procedure and/or standard(s) as required by the building code.
- B. Concrete Anchors a. Mechanical Anchors for use in cracked and uncracked concrete shall have been tested and gualified for use in accordance with ACI 355.2 and ICC-ES AC193. preapproved mechanical anchors include
  - Simpson Strong-tie "Titen-HD" (ICC-ES ESR-2713) Simpson Strong-tie "Strong-Bolt" (ICC-ES ESR-1771)
  - Simpson Strong-tie "Torq-Cut" (ICC-ES ESR pending)
- b. Adhesive anchors for use in cracked and uncracked concrete shall have been tested and gualified for use in accordance with ICC-ES AC308. pre-approved adhesive anchors include:
- Simpson Strong-Tie "Set-XP" (ICC-ES ESR-2508) Simpson Strong-Tie "IXP with Set-SP" (ICC-ES ESR pending) c. Gas and powder-actuated fasteners for use in concrete shall have been tested and gualified for use in accordance with ICC-ES AC70. pre-approved adhesive anchors
- include Simpson Strong-Tie "GDP pins" (ICC-ES ESR-2811)
- Simpson Strong-Tie "Powder-Actuated Pins" (ICC-ES ESR-2138)
- C. Masonry Anchors anchorage to solid-grouted concrete masonry a. Mechanical and concrete screw anchors for use in solid-grouted concrete masonry shall have been tested and qualified for use in accordance with ICC-ES ac01 or ac106, respectively. Pre-approved mechanical and concrete screw anchors include: Simpson Strong-Tie "Wedge-All" (ICC-ES ESR-1396)
- Simpson Strong-Tie "Titen-HD" (ICC-ES ESR-1056) b. Adhesive anchors for use in solid-grouted concrete masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. Pre-approved adhesive
- anchors include: Simpson Strong-Tie "SET Adhesive Anchor System" (ICC-ES ESR-1772) Simpson Strong-Tie "Acrylic-Tie" (ICC-ES ESR-5791)
- c. Gas and powder-actuated fasteners for use in concrete masonry shall have been tested and qualified for use in accordance with ICC-ES ac70. Pre-approved adhesive anchors include: Simpson Strong-Tie "GDP" (ICC-ES ESR-2811)
- Simpson Strong-Tie "Powder Actuated Fasteners" (ICC-ES ESR-2138) D. Anchorage to hollow concrete masonry/unreinforced clay brick masonry
- a. Screw anchors for use in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106. Pre-approved screw anchors include: Simpson Strong-Tie "Titen-HD" (ICC-ES ESR-1056) b. Adhesive anchors with screen tubes shall be tested and qualified in accordance with
- ICC-ES AC58 or AC60, as appropriate. The appropriate screen tube shall be used as recommended by the adhesive manufacturer. Pre-approved adhesive anchors with screen tubes include: Simpson Strong-Tie "SET" (ICC-ES ESR-1772)
- Simpson Strong-Tie "Acrylic-Tie" (ICC-ES ESR-1958)
- Gas and powder-actuated fasteners for use in hollow concrete masonry shall have been tested and qualified for use in accordance with ICC-ES AC70. Pre-approved adhesive anchors include: Simpson Strong-Tie "GDP" (ICC-ES ESR-2811)
- Simpson Strong-Tie "Powder Actuated Fasteners" (ICC-ES ESR-2138) E. Steel Fasteners a. Gas and powder-actuated fasteners for use in steel shall have been tested and
- qualified for use in accordance with ICC-ES AC70. Pre-approved adhesive anchors include
  - Simpson Strong-Tie "GDP" (ICC-ES ESR-2811) Simpson Strong-Tie "Powder Actuated Fasteners" (ICC-ES ESR-2138)

- Seismic Design Coefficient, C<sub>s</sub> : 0.020

- **F.** The structure is designed to function as a unit upon the completion of construction for the entire project and then only to support the design loads indicated. Contractor is responsible or determining loadings occurring during construction, and for coordinating loadings with ther contractors, and for determining and not exceeding the capacity of the structure at any ime prior to completion of the entire project. Contractor is responsible for procedures, eans, methods and sequences of construction. Design and provide all temporary bracing horing, and/or support(s).
- G. Review by owner's authorized representative of redundant submittals from backup, second source or replacement suppliers/contractors is contractor's expense. H. A/E services related to substitutions or changes proposed by the contractor are the
- contractor's expense. Do not rely on acceptance in preparing bids. The A/E may reject these without cause.

# OPENINGS

- **A.** Openings not shown on the structural drawings are subject to approval by the structural engineer. Contractor is responsible for the cost of re-routing systems to acceptable opening locations.
- **B.** Permitted openings in new concrete shall be formed. Permitted openings in new steel shall be shop fabricated. Trade contractors shall not rely on core drilling or cutting of openings in new construction C. For new openings in existing concrete construction, locate existing embedments and secure
- architect/engineer approval prior to cutting. D. Do not cut beyond edges or corners of new openings in existing construction. Do not cut deeper than required. Where saw cutting is used, do not over run corners - chip out corners manually.
- E. Locations:
- a. Openings in columns are not permitted. b. Openings in girders, beams, and joists are permitted where shown on the Structural Drawings
- c. Openings through slabs between girders, beams and joists are generally permitted with the addition of reinforcing indicated in concrete notes on this drawing and the framing shown in the typical opening details. Submit locations for approval. ANCHORING:
- A. Do not cut reinforcing bars or damage other embedments. Repair of damaged concrete, reinforcing and other embedments is the expense of trade contractor installing the anchor. Cast in anchors shall not change the cover between formwork and reinforcing.
- Installer of anchor is responsible for determining if the structure can develop the capacity of the anchor. EMBEDDED ITEMS:
- A. Do not embed pipes, tubes, wires, conduits, ducts. or cavity creating non-structural items in concrete
- B. Permitted embedments are limited to reinforcing, connection plates and anchors. SUPPORT AND BRACING OF WORK NOT SHOWN ON STRUCTURAL DRAWINGS: A. Do not induce loads on or hang loads from deck, unless shown on drawings, including but not limited to these items: ceilings, pipes, ducts, equipment, etc. Contractor or subcontractor installing such items shall provide sub-framing to transfer load to the structure
- supporting deck. B. Do not suspend point loads from slabs totaling more than 500 lbs within any 50 square feet of continuous floor slab area. Engineer and provide sub-framing and bracing to transfer such loads to joists, beams, or girders at the expense of trade contractor suspending loads.
- C. Supports, bracing, sub-framing, light gage framing, miscellaneous steel, bracket connectors and attachments not shown on the structural drawings are the contractor's responsibility and shall be engineered and provided by the trade contractor with items being supported or braced at the trade contractor's expense.
- D. If structural drawings are referenced by other drawings for items not fully defined on Structural Drawings (and associated specifications) then engineer and provide such items on a performance basis in compliance with the governing building code. all costs shall be born by the trade contractor attaching to or bearing upon such items.
- Support and bracing systems shall not transmit lateral loads to columns between floors or to the bottoms or sides of steel beams or joists. If other contract drawings indicate bracing or attachment details which would result in lateral loads being transmitted to the sides of columns between floors or to the bottoms or sides of beams or joists then the trade contractor responsible for the items transmitting such lateral loads shall include the cost in the bid for engineering and providing bracing from the point of attachment to the top of the next adjacent beam or joist
- F. Facade and wall system attachments to the structure: (Excluding stone panel systems and sculptures where indicated) a. Shall not assume the structure provides moment resistance at the point of attachment.
- Shall be to the edge of the floor slab or roof deck only, unless noted otherwise. Shall not restrict independent vertical or lateral movement of the building levels. G. Where dimensions or weights of equipment or systems are variable from manufacturer to manufacturer, verify dimensions and weights shown on drawings with selected
- manufacturer prior to ordering materials. Notify structural engineer of discrepancies. H. Do not place equipment when shipping or operating weight exceeds weight indicated on Structural Drawings.
- Contractor is responsible for all costs associated with adapting structure to accommodate selected elevator manufacturer's equipment, loadings and other requirements. Submit details and calculations prepared by a professional engineer registered in the state where the project is to be constructed and employed by contractor. The contractor is responsible for the means and methods of hoisting elevator equipment into place including hoist beams, whether or not shown or noted on any contract document.
- Where engineering is required, the service shall be provided by an Engineer, registered in the state where the project is to be constructed.

# ABBREVIATIONS

AB	ANCHOR BOILT
AR	ANCHOR ROD
ACI	AMERICAN CONCRETE INSTITUTE
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
RS B/STI	
BE B/ENDN	
BCX	
BL	BRICK LEDGE
€, CL	
CJ	
CWP	
DL	
DIA, Ø	DIAMETER
EOS	EDGE OF SLAB
EL	ELEVATION
ELEV	ELEVATOR
EMB, EMBD	EMBEDMENT
EX, (E), EXST	EXISTING
EJ	
FG, F.G.	FINISH GRADE ELEVATION
FI, FIG	FOUTING
JD, J/D NTS	
PEMB	
PT	PRESSURE TREATED
RTU	ROOF TOP UNIT
RDI	
RF. R.F.	RECESS IN TOP OF FOUNDATION WALL
SJI	STEEL JOIST INSTITUTE
SF. S.F.	STEP IN FOOTING/FOUNDATION
SW	SHEAR WALL
SOG	SLAB ON GRADE
T&B	TOP AND BOTTOM
TC, T/CONC	TOP OF CONCRETE
TM, T/MAS	TOP OF MASONRY
TS, T/STL	TOP OF STEEL
TF, T/FTG	TOP OF FOOTING
TF, T/FND	TOP OF FOUNDATION
TYP	TYPICAL
TW, T/W	TOP OF WALL
UNO, UN	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
V/P	VERIFY OR PROVIDE
WWR	WELDED WIRE REINFORCEMENT



## CODE DATA

- 2018 IBC AND 2018 IEBC PRESCRIPTIVE COMPLIANCE METHOD PER SECTION
- 301.3.1 OF THE 2018 IEBC USE GROUP A-3 PER SECTION 303.4 OF THE 2018 IBC CONSTRUCTION TYPE II-B (ASSUMBED
- NO CHANGE IN OCCUPANCY NO CHANGE IN EXITING

NO SITE WORK

# SHEET LIST

S0	GENERAL NOTES
S1	DEMO PLAN
S2	GYM ROOF FRAMING PLAN
S3	GYM ROOF PLAN
S4	SPECIFICATIONS
S5	SPECIFICATIONS
S6	SPECIFICATIONS
S7	SPECIFICATIONS
S8	SPECIFICATIONS
S9	SPECIFICATIONS
S10	SPECIFICATIONS

**CITY OF BELLEFONTAINE NEIGHBORS, MISSOURI** 9641 BELLEFONTAINE ROAD ST. LOUIS, MISSOURI 63137

AREA OF WORK



**PROJECT LOCATION** NO SCALE

THE PROFESSIONAL SEAL AND SIGNATURE APPLY ONLY TO THIS DOCUMENT TO WHICH THEY ARE AFFIXED AND ONLY FOR CIVILSTRUCTURAL	ENGINEERING AND LAND SURVEYING AS APPLICABLE. THE PROFESSINAL EXPRESSLY DISCLAIMS ANY RESPONSIBILITY CECRALL OTHER PLANS,	SFELINCATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTURMENTS, RELATING TO OR INTENDED FOR E USED FOR ANY PART OR PARTS OF THE	PROJECT TO WHICH THIS POCUMENT REFERS	CUPYRIGH © 2022 FRONTENGINEERING GROUP, INC.
			REMARKS	SION DESCRIPTION
			NO. DATE	ISSUE/REVIS
FRONTENAC ENGINEERING	2725 SUTTON BLVD. ST. LOUIS, MISSOURI 6	PHONE: (314) 644-2200 www.fe-stl.com	MO CERTIFICATE OF AUTHORITY: CIVII / STRIICTIRAI ENGINEERING	LAND SURVEYING: 000282
DATE: 8/8/2022	CHECKED: BMF	DRAWN: ACM	SCALE:	AS NOTED
TES	<b>ITAINE NEIGHBORS</b>	ROOF REPLACEMENT		O 00101
<b>GENERAL NO</b>	BELLEFON	STRUCTURAL		

DEMO PLAN NOTES

- 1. PROTECT EXSITING GYM FLOOR PRIOR TO ANY DEMOLITION WORK. PROTECTION TO REMAIN IN PLACE UNTIL NEW ROOF FRAMING ELEMENTS AND ROOF DECK HAVE BEEN INSTALLED. 2
- SHORE AND BRACE EXISTING MASONRY WALLS PRIOR TO DEMOLITION WORK. SHORING AND BRACING TO REMAIN IN PLACE UNTIL NEW ROOF FRAMING IS IN PLACE. 3. FINISH FLOOR ELEVATION = ±100'-0" (TOP OF EXST GYM FLOOR)









IAXIMUM WARRANTY: 20 Years

08/27/2021 NOT TO SCALE

DETAIL NO.

BT-7

BASE TIE-IN 3/4" = 1'-0" 5 S3

Firestone

Firestone Building Products

BASE TIE-IN WITH 2" METAL PLATES

FASTENED TO WALL OR CURB

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	Drawings and general provisions of the Contract, includi	ng General and Supplementary Condi
1.2	SUMMARY	
74.	<ol> <li>Project information.</li> <li>Work covered by Contract Documents.</li> </ol>	
	<ol> <li>Phased construction.</li> <li>Work by Owner.</li> </ol>	
	<ol> <li>Work under separate contracts.</li> <li>Euture work.</li> </ol>	
	<ol> <li>Purchase contracts.</li> <li>Owner-furnished products</li> </ol>	
	<ol> <li>9. Contractor-furnished, Owner-installed products.</li> <li>10 Access to site</li> </ol>	
	<ol> <li>Access to site.</li> <li>Coordination with occupants.</li> <li>Work restrictions</li> </ol>	
	<ol> <li>13. Specification and drawing conventions.</li> <li>14. Missellaneous provisions.</li> </ol>	
В.	14. Miscellaneous provisions. Related Requirements:	<b></b>
1.0	1. Section 015000 "Temporary Facilities and Controls use of Owner's facilities.	s" for limitations and procedures gover
1.3 A.	PROJECT INFORMATION Project Identification:	20 000
	<ol> <li>Project Name: Bellefontaine Neighbors Gym roof re</li> <li>FEG Project Number: 220063</li> </ol>	placement
В.	3. Address: 9669 Bellefontaine Road St. Louis, MO 63 Owner: City of Bellefontaine Neighbors	3137
	<ol> <li>Owner's Representative:</li> <li>a. Clayton Klein – City Engineer 31</li> </ol>	4-374-1448
	b. Patrick Barrett – Planning and Zoning 31 Lames Kirincich – Parks and Rec Director 31	4-229-7373 4-882-0044
C.	Engineer: Frontenac Engineering Group	4 020 7212
1.4	a. Alden Manipula - Structural Designer 31 WORK COVERED BY CONTRACT DOCUMENTS	4-230-7313
A.	<ol> <li>Demolition of the existing roofing, roof insulation, ro</li> </ol>	s and consists of the following: of deck, wood roof trusses of the gymn
1004	<ol> <li>Installation of new CMU walls, brick veneer, long s guttering, and fully adhered TPO roofing.</li> </ol>	pan steel root joists, Tectum roof deck,
В.	<ol> <li>I ype of Contract:</li> <li>Project will be constructed under a single prime cor</li> </ol>	ntract.
1.5 A.	WORK BY OWNER General: Cooperate fully with Owner so work may be ca	rried out smoothly, without interfering v
	work under this Contract or work by Owner. Coordinate Owner.	e the Work of this Contract with worl
1.6 A.	ACCESS TO SITE General: Contractor shall have full use of Proiect site for	or construction operations during cons
000272	Contractor's use of Project site is limited only by Owner's portions of Project.	right to perform work or to retain other
В.	Use of Site: Limit use of Project site to work in areas in areas in which the Work is indicated	dicated. Do not disturb portions of Proj
	<ol> <li>Limits: Confine construction operations to the ger upon with the Owner</li> </ol>	neral area of the existing gymnasium
	2. Driveways, Walkways and Entrances: Keep drivew clear and available to Owner Owner's employees	vays, lo <b>ading areas,</b> and entrances se and emergency vehicles at all times
	areas for parking or storage of materials.	vavs and entrances by construction on
	<ul> <li>b. Schedule deliveries to minimize use of driver</li> <li>b. schedule deliveries to minimize space ar</li> </ul>	nd time requirements for storage of
SUMMA	ARY	011000 - 1
C.	Condition of Existing Building: Maintain portions of exist	ting building affected by construction of
C.	Condition of Existing Building: Maintain portions of exist weathertight condition throughout construction period. Rep COORDINATION WITH OCCUPANTS	ting building affected by construction operation operati
C. 1.7 A.	Condition of Existing Building: Maintain portions of exist weathertight condition throughout construction period. Rep COORDINATION WITH OCCUPANTS Full Owner Occupancy: Owner will occupy site and <b>exist</b> Cooperate with Owner during construction operations to r	ting building affected by construction of pair damage caused by construction op <b>ing adjacent areas</b> during entire cons ninimize conflicts and facilitate Owner
C. 1.7 A.	Condition of Existing Building: Maintain portions of exist weathertight condition throughout construction period. Rep COORDINATION WITH OCCUPANTS Full Owner Occupancy: Owner will occupy site and <b>exist</b> Cooperate with Owner during construction operations to r the Work so as not to interfere with Owner's day-to-day indicated.	ting building affected by construction of pair damage caused by construction op- <b>ing adjacent areas</b> during entire cons minimize conflicts and facilitate Owner operations. Maintain existing exits ur
C. 1.7 A.	Condition of Existing Building: Maintain portions of exist weathertight condition throughout construction period. Rep COORDINATION WITH OCCUPANTS Full Owner Occupancy: Owner will occupy site and <b>exist</b> Cooperate with Owner during construction operations to r the Work so as not to interfere with Owner's day-to-day indicated. 1. Maintain access to existing walkways, corridors, a close or obstruct walkways, corridors, or other occu	ting building affected by construction of pair damage caused by construction op <b>ing adjacent areas</b> during entire cons minimize conflicts and facilitate Owner of operations. Maintain existing exits ur and other adjacent occupied or used faculities without written p
C. 1.7 A.	<ul> <li>Condition of Existing Building: Maintain portions of exist weathertight condition throughout construction period. Rep COORDINATION WITH OCCUPANTS</li> <li>Full Owner Occupancy: Owner will occupy site and exist Cooperate with Owner during construction operations to r the Work so as not to interfere with Owner's day-to-day indicated.</li> <li>Maintain access to existing walkways, corridors, a close or obstruct walkways, corridors, or other occu Owner and approval of authorities having jurisdiction</li> <li>Notify Owner not less than 72 hours in advance of a</li> </ul>	ting building affected by construction of bair damage caused by construction op- <b>ing adjacent areas</b> during entire cons minimize conflicts and facilitate Owner of operations. Maintain existing exits ur and other adjacent occupied or used fa upied or used facilities without written p n. activities that will affect Owner's operation
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SUMMARY

2	<ol> <li>Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum equipment.</li> <li>TEMPORARY FACILITIES AND CONTROLS</li> <li>015000 - 2</li> </ol>	B.       Maintenance: Maintain facilities in good operating condition until removal.         TEMPORARY FACILITIES AND CONTROLS       015000 - 4	S4 NO.
	<ul> <li>equipment. isolate limited work within occupied areas using portable dust-containment devices.</li> <li>3. Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum</li> </ul>	availability of temporary facilities to essential and intended uses.	
	<ol> <li>A. Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas.</li> <li>Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment loolete limited work within accuric areas using a stable to the test stable during the second stable during the stable during the second stable during the stable during the stable during the stable during the second stable during the stable during the</li></ol>	<ul> <li>3.6 OPERATION, TERMINATION, AND REMOVAL</li> <li>A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse. limit</li> </ul>	
	coordination drawings. a. Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas	limits.	
	<ul> <li>Isolation of work Areas in Occupied Facilities: Prevent dust, tumes, and odors from entering occupied areas.</li> <li>Prior to commencing work, isolate the HVAC system in area where work is to be performed according to</li> </ul>	<ol> <li>Use permanent HVAC system to control humidity.</li> <li>Comply with manufacturer's written instructions for temperature, relative humidity, and exposure to water.</li> </ol>	
	maintenance of fixtures and facilities.	<ol> <li>Control moisture and humidity inside building by maintaining effective dry-in conditions.</li> </ol>	
	D. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and	D. Controlled Construction Phase of Construction: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:	
	a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.	<ol> <li>Perform work in a sequence that allows any wet materials adequate time to dry before enclosing the material in drywall or other interior finishes.</li> </ol>	
	<ol> <li>Connect temporary sewers to as directed by authorities having jurisdiction.</li> <li>Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in</li> </ol>	<ol> <li>Discard, replace, or clean stored or installed material that begins to grow mold.</li> </ol>	
	<ul> <li>B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.</li> <li>1 Connect temporary servers to as directed by sutherities begins inside the sume of the second server in the second second server is a second secon</li></ul>	<ol> <li>Discard or replace water-damaged material.</li> <li>Do not install material that is wet.</li> </ol>	
ecification Section	<ol> <li>Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.</li> </ol>	<ol> <li>Periodically collect and remove waste containing cellulose or other organic matter.</li> </ol>	E R E V
part of the U.S.	A. General: Install temporary service or connect to existing service.	into partially enclosed building.	
in the individual	needed or are replaced by authorized use of completed permanent facilities.	spores, protect as follows: 1. Do not load or install drywall or other porous materials or components, or items with high organic content.	
scribed in detail in	<ol> <li>Locate facilities to limit site disturbance.</li> <li>B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer</li> </ol>	C. Partially Enclosed Construction Phase: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold approximate and followers.	
onerwise. of all Sections in	the Work. Relocate and modify facilities as required by progress of the Work.	5. Keep deck openings covered or dammed.	
:) is used within a	3.1 INSTALLATION, GENERAL A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of	<ol> <li>Keep porous and organic materials from coming into prolonged contact with concrete.</li> <li>Remove standing water from decks.</li> </ol>	
he words "shall,"	PART 3 - EXECUTION	2. Protect stored and installed material from flowing or standing water.	<u> </u>
and the intended prventions are as	<ol> <li>Heating Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency</li> <li>accentable to authorities having inrigidiction, and marked for intended leastion and application.</li> </ol>	<ul><li>exposure and to airborne mold spores, protect as follows:</li><li>Protect porous materials from water damage.</li></ul>	
	<ol> <li>Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.</li> </ol>	<ul> <li>B. Exposed Construction Phase: Before installation of weather barriers, when materials are subject to wetting and</li> </ul>	
oject site is not	B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.	A. Contractor's Moisture-Protection Plan: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction	
trances, operable	A. Fire Extinguishers. Portable, OL rated; with class and extinguishing agent as required by locations and classes of fire exposures.	and equip with suitable nozzles. 3.5 MOISTURE AND MOLD CONTROL	63
ers. 1 vibration. odors	2.3 EQUIPMENT A Fire Extinguishers: Portable, III, rated: with class and extinguishing agent as required by leasting, and classes	<ol> <li>Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size</li> </ol>	
6 a.m. to 6 p.m.,	<ol> <li>Store combustible materials apart from building.</li> </ol>	review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.	DATI DATI 3/8/2 3MF 3MF 3MF 3/8/2 3/2AL
authorities having	<ul> <li>B. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.</li> </ul>	<ol> <li>Develop and supervise an overall fire-prevention and -protection program for personnel at Project site.</li> </ol>	OTE   SKEE   S022
ations.	A. Field Offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.	<ol> <li>Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction</li> </ol>	
n permission from	2.2 TEMPORARY FACILITIES	program. 1. Prohibit smoking in construction areas.	AEN
facilities. Do not	<ul> <li>E. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum</li> </ul>	H. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention	
unless otherwise	rating of 15 or less per ASTM E 84 and passing NFPA 701 Test Method 2.	<ol> <li>Provide walk-off mats at each entrance through temporary partition.</li> </ol>	
nstruction period	<ul> <li>mm) rails, with preservative-treated wood posts spaced not more than 8 feet (2.4 m) apart.</li> <li>C. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10-mil (0.25-mm) minimum thickness, with flame-spread</li> </ul>	partitions according to the rated assemblies.	
n operations in a	B. Wood Enclosure Fence: Plywood, [6 feet (1.8 m)] [8 feet (2.4 m)] high, framed with four 2-by-4-inch (50-by-100-	2. Where fire-resistance-rated temporary partitions are required by authorities having jurisdiction, construct	
			LONNESES
			RONTEN NIL / STF 725 SL fone: (31 ww.fe vil / Stru ND SURV
			JTTO JTTO JTTO JCTUR JCTUR
1	rails. Provide galvanized-steel bases for supporting posts. TEMPORARY FACILITIES AND CONTROLS	TEMPORARY FACILITIES AND CONTROLS 015000 - 3	NGIN IRAL/ NN BL/ NISSC 2200 Som Som Som
operations. of materials and	fabric fencing; minimum 6 feet (1.8 m) high with galvanized-steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top and bottom	retardant-treated plywood on construction operations side.	COUR COUR COUR COUR COUR COUR COUR COUR
Do not use these	<ul> <li>2.1 MATERIALS</li> <li>A. Portable Chain-Link Fencing: Minimum 2-inch (50-mm). 0.148-inch- (3.8-mm-) thick. galvanized-steel. chain-link</li> </ul>	<ul> <li>areas occupied by Owner from fumes and noise.</li> <li>Construct dustproof partitions with avpsum wallboard with joints taped on occupied side, and fire-</li> </ul>	NG G SURV SURV SURV 163 175
serving premises	PART 2 - PRODUCTS	enciosures. G. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate	ROUI 143 1143
m and as agreed	operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.	<ol> <li>Where heating or cooling is needed and permanent enclosure is incomplete, insulate temporary enclosures</li> </ol>	
roject site beyond	<ul><li>1.5 PROJECT CONDITIONS</li><li>A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for</li></ul>	from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.	
nstruction period. ner contractors on	5. Other dust-control measures.	authorities having jurisdiction. F. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed	
	<ol> <li>Location of proposed air-filtration system discharge.</li> <li>Waste handling procedures.</li> </ol>	structurally adequate barricades, including warning signs and lighting. E. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by	DAT
g with or delaying ork performed bv	2. HVAC system isolation schematic drawing.	<ul> <li>D. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting attructurally adapted barricades, including warries sizes and lighting.</li> </ul>	
	<ol> <li>Turtner options it proposed measures are later determined to be inadequate. Include the following:</li> <li>Locations of dust-control partitions at each phase of work.</li> </ol>	<ol> <li>Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.</li> </ol>	
	D. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC- control measures proposed for use, proposed locations, and proposed time frame for their operation. Identify further entires if accessed received and the second se	C. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.	REV
nnasium.	verifying that wet construction has dried sufficiently to permit installation of finish materials.	to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.	
	<ol> <li>Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these spectrums. Characteristic for</li> </ol>	<ul> <li>B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required</li> </ul>	
	<ol> <li>Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and replacing water-damaged Work.</li> </ol>	A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities	ESCF
	<ol> <li>Describe delivery, handling, and storage provisions for materials subject to water absorption or water damage.</li> </ol>	3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION A Protection of Existing Excitities: Protect existing vegetation, equipment, structures, utilities, and other	ALARI
	materials, and new construction from water absorption and damage.	<ol> <li>Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.</li> </ol>	ON (S)
	Indicate Contractor personnel responsible for management of fire-prevention program.	E. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.	
	<ul> <li>personnel.</li> <li>B. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction</li> </ul>	D. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. C	
	A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction	C. Parking: Use designated areas of Owner's existing parking areas for construction personnel.	
verning temporary	required for construction operations.	<ol> <li>Protect existing site improvements to remain including curbs, pavement, and utilities.</li> <li>Maintain access for fire fighting equipment and access to fire hydrants.</li> </ol>	
	C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as	<ul> <li>B. Traffic Controls: Comply with requirements of authorities having jurisdiction.</li> </ul>	THE PRO SIGNAT THIS DC THIS DC THIS DC THIS DC FOR J FOR J SPECIFIC BC DC DC DC DC DC DC DC DC DC DC DC
	without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.	<ol> <li>Provide construction for temporary offices, shops, and sheds located within construction area or within 30 feet (9 m) of building lines that is noncombustible according to ASTM E 136. Comply with NEPA 241</li> </ol>	FESSION URE APPI NCUMENTRIE FESSION NCUMENTRIE FESSION NCL/STRE EERING ATIONS,
	B. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use	3.3 SUPPORT FACILITIES INSTALLATION     A. General: Comply with the following:	AL SEAL LY ONLY T TO WH T TO WH AND LAN PILCABLI AND LAN PILCABLI AND LAN PILCABLI AND LAN PILCABLI AND LAN PILCABLI AND LAN PILCABLI AND LAN PILCABLI AND LAN PILCABLI AND LAN PILCABLI AND CON PILCABLI AND CON PILCABLI PILCABLI AND CON PILCABLI
	Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Engineer, testing agencies, and authorities having invited to a service servic	entire system.	AND AND ADNLY ADNLY ADNLY S, S, S
	<ul> <li>A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract</li> </ul>	operations, observations, inspections, and traffic conditions.	
	<ul> <li>A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.</li> <li>1.3 USE CHARGES</li> </ul>	Acceptable to Owner. H. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction	
	1.2 SUMMARY	G. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition	
	A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.	1. Provide dehumidification systems when required to reduce substrate moisture levels to level required to allow installation or application of finishes	
nditions and other	PART 1 - GENERAL         1.1       RELATED DOCUMENTS	Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.	

<ol> <li>Maintain operation of temporary enclosures, heating, cooling, humidity control, vent facilities on a 24-hour basis where required to achieve indicated results and to avoid damage.</li> </ol>	ilation, a d possib
C. Temporary Facility Changeover: Do not change over from using temporary security and pr	rotection
<ul> <li>D. Termination and Removal: Remove each temporary facility when need for its service has a been replaced by outborized use of a permanent facility. or no later than Substantial Completence.</li> </ul>	ended, v
necessary, restore permanent construction that may have been delayed because of interfe	erence v
repaired.	0.000
to take possession of Project identification signs.	. Owner
<ol> <li>Remove temporary roads and paved areas not intended for or acceptable for integra construction. Where area is intended for landscape development, remove soil and a</li> </ol>	ation int
not comply with requirements for fill or subsoil. Remove materials contaminated with other petrochemical compounds, and other substances that might impair growth of	h road o plant ma
authorities having jurisdiction.	s, as rec
<ol> <li>At Substantial Completion, repair, renovate, and clean permanent facilities used dur period. Comply with final cleaning requirements specified in Section 017700 "Closed</li> </ol>	ring con out Proc
END OF SECTION 015000	
TEMPORARY FACILITIES AND CONTROLS 0150	000 - 5
TEMPORARY FACILITIES AND CONTROLS 0150	000 - 5
TEMPORARY FACILITIES AND CONTROLS       0150         SECTION 024116 - STRUCTURE DEMOLITION         PART 1 - GENERAL	000 - 5
TEMPORARY FACILITIES AND CONTROLS       0150         SECTION 024116 - STRUCTURE DEMOLITION         PART 1 - GENERAL         1.1       RELATED DOCUMENTS         A.       Drawings and general provisions of the Contract, including General and Supplement	entary
SECTION 024116 - STRUCTURE DEMOLITION         PART 1 - GENERAL         1.1       RELATED DOCUMENTS         A.       Drawings and general provisions of the Contract, including General and Supplemendivision 01 Specification Sections, apply to this Section.         1.2       SUMMARY	entary
SECTION 024116 - STRUCTURE DEMOLITION         PART 1 - GENERAL         1.1       RELATED DOCUMENTS         A.       Drawings and general provisions of the Contract, including General and Supplement Division 01 Specification Sections, apply to this Section.         1.2       SUMMARY         A.       Section Includes:         1.       Demolition and removal of existing wood roof trusses, roof deck, roof insulation	entary
SECTION 024116 - STRUCTURE DEMOLITION         PART 1 - GENERAL         1.1       RELATED DOCUMENTS         A.       Drawings and general provisions of the Contract, including General and Supplemendivision 01 Specification Sections, apply to this Section.         1.2       SUMMARY         A.       Section Includes:         1.       Demolition and removal of existing wood roof trusses, roof deck, roof insulation miscellaneous items from elevation 120'-0" above at the project area.         2       Salvaging items noted by the Owner for reuse	entary ion, roo
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TEMPORARY FACILITIES AND CONTROLS       0150         SECTION 024116 - STRUCTURE DEMOLITION         PART 1 - GENERAL         1.1       RELATED DOCUMENTS         A.       Drawings and general provisions of the Contract, including General and Supplementaria D1 Specification Sections, apply to this Section.         1.2       SUMMARY         A.       Section Includes:         1.       Demolition and removal of existing wood roof trusses, roof deck, roof insulatimiscellaneous items from elevation 120'-0" above at the project area.         2.       Salvaging items noted by the Owner for reuse.         1.3       DEFINITIONS         A.       Remove: Detach items from existing construction and dispose of them off-site unless indi         B.       Remove and Salvage: Detach items from existing construction, in a manner to prevent of Owner. Include fasteners or brackets needed for reattachment elsewhere.         1.4       MATERIALS OWNERSHIP	entary ion, roo icated to damage
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<ul> <li>SECTION 024116 - STRUCTURE DEMOLITION</li> <li>PART1 - GENERAL</li> <li>1.1 RELATED DOCUMENTS</li> <li>A. Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> <li>1.2 SUMMARY</li> <li>A. Section Includes: <ol> <li>Demolition and removal of existing wood roof trusses, roof deck, roof insulatimiscellaneous items from elevation 120-0° above at the project area.</li> <li>Salvaging items noted by the Owner for reuse.</li> </ol> </li> <li>1.3 DEFINITIONS <ol> <li>Remove and Salvage: Detach items from existing construction and dispose of them off-site unless india.</li> <li>Remove: Detach items from existing construction in a manner to prevent Owner. Include fasteners or brackets needed for reattachment elsewhere.</li> </ol> </li> <li>1.4 MATERIALS OWNERSHIP <ol> <li>Innepsect and finalize project site.</li> <li>Innepsect and finalize project site.</li> <li>Review and finalize protection requirements.</li> <li>Review and finalize protection read dust control.</li> <li>Review and finalize protection adjacent building elements.</li> <li>Review procedures for protection of adjacent buildings elements.</li> <li>Review procedures for protection adjacent buildings elements.</li> <li>Review procedures for protection requirements.</li> <li>Review procedures for protection rediace building demolition schedule and the solution schedule and the solution for equipment, and facilities needed to make progress and avoid delays.</li> <li>Review procedures for protection rediacent buildings elements.</li> </ol> </li> <li>1.5 INFORMATIONAL SUBMITTALS</li> <li>Proposed Protection Measures: Submit report, including Drawings, that indicates the propertion ind</li></ul>	entary ion, roo icated to damage demoli
<ul> <li>SECTION 024116 - STRUCTURE DEMOLITION</li> <li>PART 1 - GENERAL</li> <li>1.1 RELATED DOCUMENTS <ul> <li>A. Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> </ul> </li> <li>1.2 SUMMARY <ul> <li>A. Section Includes:</li> <li>1. Demolition and removal of existing wood roof trusses, roof deck, roof insulatimiscelaneous items from elevation 120-0° above at the project area.</li> <li>2. Salvaging items noted by the Owner for reuse.</li> </ul> </li> <li>1.3 DEFINITIONS <ul> <li>A. Remove: Detach items from existing construction and dispose of them off-site unless indi</li> <li>B. Remove: Detach items from existing construction, in a manner to prevent Owner. Include fasteners or brackets needed for reattachment elsewhere.</li> </ul> </li> <li>1.4 MATERALS OWNERSHIP <ul> <li>A. Conduct meeting at Project site.</li> <li>1. Inspect and discuss condition of construction to be demolished.</li> <li>2. Review and finalize building demolition schedule and verif availability of equipment, and facilities needed to make progress and avoid delays.</li> <li>3. Review modulers for noise control and dust control.</li> <li>3. Review procedures for projection of adjacent building elements.</li> <li>3. Review procedures for projection of adjacent building selements.</li> <li>3. Review procedures for projection of adjacent building selements.</li> <li>3. Review procedures for project on diagenet buildings elements.</li> <li>3. Review procedures for project on of adjacent buildings elements.</li> <li>3. Review procedures for project on fuel adjacent buildings elements.</li> <li>3. Review procedures for projection of adjacent buildings elements.</li> <li>3. Review procedures for projection of adjacent buildings elements.</li> <li>3. Review procedures for projection of adjacent buildings elements.</li> <li>4. Review procedures for projection of adjacent buildings elements.</li> </ul> </li> </ul>	entary ion, roo icated to damage demolif
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<ul> <li>SECTION 024116 - STRUCTURE DEMOLITION PART 1 - GENERAL <ol> <li>RELATED DOCUMENTS</li> <li>Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> <li>SUMMARY</li> <li>SumMARY</li> <li>SumMARY</li> <li>Summary and removal of existing wood roof trusses, roof deck, roof insulati miscellaneous items from elevation 120-0° above at the project area.</li> <li>Salvaging items noted by the Owner for reuse.</li> <li>DEFINITIONS</li> <li>Remove: Detach items from existing construction, in a manner to prevent Owner, include stateners or brackets needed for reattachment elsewhere.</li> <li>MATERIALS OWNERSHIP</li> <li>Unless otherwise indicated, demolition waste becomes property of Contractor.</li> <li>PREDEMOLITION MEETINGS</li> <li>Remove: and finalize protection requirements.</li> <li>Review and finalize protection requirements.</li> <li>Review and finalize protection requirements.</li> <li>Review procedures for notection and alignes and void delays.</li> <li>Review procedures for notic control and dust control.</li> <li>Review procedures for notic control and</li></ol></li></ul>	entary ion, roo icated to damage demolif measure roposed ne existi
<ul> <li>SECTION 024116 - STRUCTURE DEMOLITION</li> <li>PART 1 - GENERAL</li> <li>1.1 RELATED DOCUMENTS</li> <li>A. Drawings and general provisions of the Contract, including General and Supplem Division of Specification Sections, apply to this Section.</li> <li>1.2 SUMMARY</li> <li>A. Section Includes: <ol> <li>Demolition and removal of existing wood roof trusses, roof deck, roof insulati miscellaneous items from elevation 120-0° above at the project area.</li> <li>Sadging items noted by the Owner for reuse.</li> </ol> </li> <li>1.3 DEFINITIONS <ol> <li>Remove: Detach items from existing construction, in a manner to prevent. Owner, include fastenser or brackets needed for reattachment elsewhere.</li> </ol> </li> <li>1.4 MATERIALS OWNERSHIP <ol> <li>Unless otherwise indicated, demolition waste becomes property of Contractor.</li> <li>PREDEMOLITION MEETINOS</li> <li>Renove and Salvage: Detach items from existing construction to be demolished.</li> <li>Insect and discuss condition of construction to be demolished.</li> <li>Review procedures for noise control and dust control.</li> <li>Review procedures for protection requirements.</li> <li>Review procedures for protection of adjacent buildings elements.</li> <li>Review incoderus for protection of adjacent buildings elements.</li> <li>Review interviets a propert, for dust control, for noise control. Indicate protection Measures: Submit report, including Drawings, that indicates the root of construction of adjacent building selements.</li> <li>Existing gymnasium flooring: Detail special measures proposed to protect the flooring.</li> <li>Schedule of Building Demolition Activities: Indicate the following:</li> <li>Detailed sequence of demolition work, with starting and ending dates for each activitable in the root adjacent building selements.</li></ol></li></ul>	entary ion, roo icated to damage demolit measure roposed ne existi
<ul> <li>SECTION 024116 - STRUCTURE DEMOLITION PART 1 - GENERAL</li> <li>1.1 RELATED DOCUMENTS</li> <li>A. Drawings and general provisions of the Contract, including General and Supplem Division of Specification Sections, apply to this Section.</li> <li>1.2 SUMMARY</li> <li>A. Section Includes: <ol> <li>Demolition and removal of existing wood roof trusses, roof deck, roof insulati miscellaneous items from elevation 120<sup>-07</sup> above at the project area.</li> <li>Sadging items noted by the Owner for reuse.</li> </ol> </li> <li>1.3 DEFINITIONS <ol> <li>Remove: Detach items from existing construction, in a manner to prevent Owner. Include fasteners or brackets needed for reattachment elsewhere.</li> </ol> </li> <li>1.4 MATERIALS OWNERSHIP <ol> <li>Unless otherwise indicated, demolition waste becomes property of Contractor.</li> <li>PREDEMOLITION MEETINOS</li> <li>Review procedures for noise control and obsecute and verify availability of equipment, and facilities needed to make progress and avoid delays.</li> <li>Review procedures for noise control on dadgeen thuilding selements.</li> <li>Review procedures for protection of adjacent buildings elements.</li> <li>Review procedures for protection of adjacent building selements.</li> <li>Review into be salvaged and returned to Owner.</li> </ol> </li> <li>Proposed Protection Measures: Submit report, including Drawings, that indicates the fooring.</li> <li>Schedule of Building Demolition Activities: Indicate the following:</li> <li>Detailed sequence of demolition control, for noise control. Indicate proconstruction of barriers.</li> <li>Existing gyrmasium flooring: Detail special measures proposed to protect the flooring.</li> <li>Schedule of Building Demolition Activities: Indicate</li></ul>	entary ion, roo cated to damage demoli demoli measure roposed ne existi
<ul> <li>TEMPORARY FACILITIES AND CONTROLS</li> <li>SECTION 024115 - STRUCTURE DEMOLITION PART 1 - GENERAL</li> <li>1.1 RELATED DOCUMENTS</li> <li>A Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> <li>1.2 SUMMARY</li> <li>A Section Includes:         <ul> <li>1.3 Demolition and removal of existing wood roof trusses, roof deck, roof insulati miscellaneous items from elevation 120-07 above at the project area.</li> <li>2. Salvaging items noted by the Owner for reuse.</li> <li>1.3 DEFINITION</li> <li>A Remove and Salvage: Detach items from existing construction, in a manner to prevent Owner. Include fasteners or bracksts needed for reattachment elsewhere.</li> <li>1.4 MATERIALS OWNERSHIP</li> <li>A Unless otherwise indicated, demolition waste becomes property of Contractor.</li> <li>1.5 PREDEMOLITION MEETINGS</li> <li>Conduct meeting at Project site.</li> <li>1. Inspect and fiscuss condition of construction to be demolished.</li> <li>2. Review and finalize protection requirements.</li> <li>3. Review items to be salvaged and returned to owner.</li> <li>1.1 INFORMATIONAL SUBMITTALS</li> <li>Review items to be salvaged and returned to Owner.</li> <li>1.1 INFORMATIONAL SUBMITTALS</li> <li>Review items to be salvaged and returned to owner.</li> <li>1.6 INFORMATIONAL SUBMITTALS</li> <li>Review items to be salvaged and returned to olonory.</li> <li>1. Deside sequence of demolition catcivities: Indicate the following:                 <ul> <li>1. Deside sequence of demolition catcivities: Indicate the following:</li> <li>1.1 Deside sequence of demolition oct, with starting and ending dates for each actit 1.2 Deside of Building Demolition Activities: Indicate t</li></ul></li></ul></li></ul>	entary of ion, roo damage demolif measure roposed ne existi vity.
<ul> <li>TEMPORARY FACILITIES AND CONTROLS</li> <li>SECTION 024116 - STRUCTURE DEMOLITION PART 1 - GENERAL</li> <li>1.1 RELATED DOCUMENTS</li> <li>A. Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> <li>1.2 SUMMARY</li> <li>A. Section Includes:         <ol> <li>Demolition and removal of existing wood roof trusses, roof deck, roof insulat miscellaneous items from elevation 120-07 above at the project area.</li> <li>2. Salvaging items noted by the Owner for reuse.</li> <li>1.3 DEFINITIONS</li> <li>A. Remove: Detach items from existing construction and dispose of them off-site unless indi</li> <li>B. Remove and Salvage: Detach items from existing construction, in a manner to prevent Owner. Include fasteners or brackets needed for reattachment elsewhere.</li> <li>MATERIALS OWNERSHIP</li> <li>A. Unless otherwise indicated, demolition vaste becomes property of Contractor.</li> <li>PREDEMOLITION MEETINGS</li> <li>C. Conduct meeting al Project site.</li> <li>1. Inspect and discuss condition of construction to be demolished.</li> <li>Review and finalize protection requirements.</li> <li>Review and finalize protection requirements.</li> <li>Review and finalize protection requirements.</li> <li>Review items to be salvaged and returned to Owner.</li> </ol></li></ul> <li>INFORMATIONAL SUBMITTALS</li> <li>Review items to be salvaged and returned to Owner.</li> <li>INFORMATIONAL SUBMITTALS</li> <li>Schedule of Building Demolition Activities: inclicate the following:             <ul> <li>Deside sequence of domolition schedule and ending dates for each activities.</li> <li>Review items to be salvaged and returned to Owner.</li> </ul> </li> <li>INFORMATIONAL SUBMITTALS</li> <li>Rev</li>	entary ion, roo icated to damage demolif measure roposed ne existi vity.
<ul> <li>SECTION 024116 - STRUCTURE DEMOLITON PART 1 - GENERAL</li> <li>1.1 RELATED DOCUMENTS</li> <li>A. Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> <li>1.2 SUMMARY</li> <li>A. Section Includes: <ul> <li>1. Demolition and removal of existing wood root trusses, root deck, root insulat miscellaneous items from elevation 120-0<sup>o</sup> above at the project area.</li> <li>2. Salvaging items noted by the Owner for reuse.</li> </ul> </li> <li>1.3 DEFINITIONS <ul> <li>A. Remove: Detach items from existing construction and dispose of them off-site unless indi miscellaneous items from elevation 120-0<sup>o</sup> above at the project area.</li> <li>2. Salvaging items noted by the Owner for reuse.</li> </ul> </li> <li>1.3 DEFINITIONS <ul> <li>A. Remove: Detach items from existing construction, in a manner to prevent Owner: include fastavers or brackets needed for reattachment elsewhere.</li> <li>1.4 MATERIALS OWNERSHIP</li> <li>A. Unless otherwise indicated, demolition waste becomes property of Contractor.</li> <li>1.5 PREDEMOLITION MEETINGS</li> <li>A. Conduct meeting al Project site.</li> <li>1. Inspect and discuss condition of construction to be demolished.</li> <li>2. Review and finalize protection requirements.</li> <li>3. Review and finalize protection requirements.</li> <li>4. Review procedures for protection of adjacent building elements.</li> <li>3. Review and finalize protection for discontrol.</li> <li>3. Review and finalize protection fast control.</li> <li>4. NEROMATIONAL SUBMITTALS</li> <li>4. Depadered for hording or adjacent building dates for each acti theoring.</li> <li>6. Schedule of Building Demolition Activities: Indicate the following:</li> <li>1. Detailed and revouring of utility services, if any.</li> <li>3. Shutoff and revouring of utility services, if any.</li> <li>4. Detailed activity services, if any.</li> <li>5. Predemolition Photographs or Video: Show sexity controts the Work begins.</li> <li>6. Tredomation P</li></ul></li></ul>	entary ion, roo icated to damage demoli damage roposed ne existi vity. and site operation
<ul> <li>SECTION 024116 - STRUCTURE DEMOLITON PART 1 - GENERAL</li> <li>11. RELATED DOCUMENTS</li> <li>A. Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> <li>12. SUMMARY</li> <li>A. Section Includes: <ul> <li>a. Demolition and removal of existing wood roof trusses, roof deck, roof insulat miscellaneous items from elevation 120:0<sup>-0</sup> above at the project area.</li> <li>a. Salvaging items noted by the Owner for reuse.</li> </ul> </li> <li>13. DEFINITIONS <ul> <li>A. Remove: Detach items from existing construction and dispose of them off-site unless indi</li> <li>B. Remove: Detach items from existing construction, in a manner to prevent OWNERSHIP</li> <li>A. Conduct meeting al Project site.</li> <li>14. Unless otherwise indicated, demolition waste becomes properly of Contractor.</li> <li>15. PREDEMOLITON MEETINGS</li> <li>A. Conduct meeting al Project site.</li> <li>1. Inspect and discuss condition of adjacent building elements.</li> <li>3. Review and finalize protection requirements.</li> <li>4. Review procedures for protection requirements.</li> <li>B. Review and finalize protection requirements.</li> <li>B. Review and finalize protection requirements.</li> <li>B. Review procedures for protection of adjacent building elements.</li> <li>B. Review procedures for protection for noise control. Indicate protection finality and ability of equipment. and facilities notion in adjacent building elements.</li> <li>B. Review and finalize protection finality control, for noise control. Indicate protection finality subsciences, if any.</li> <li>B. Schedule of Building Demotition Activities: Indicate the following:</li> <li>B. Schedule of Building Demotition Activities: Indicate the following:</li> <li>C. Tengorary interruption of utility services, if any.</li> <li>C. Techenalition Protographs of View Convense, if any.</li> <li>C. Techenalition Protographs of View Convense, if any.</li> <li>Theoremation Theolographs of Views. Shownt</li></ul></li></ul>	entary i ion, roo icated to damage demolif measure roposed ne existi vity. and site operation
<ul> <li>SECTION 024115 - STRUCTURE DEMOLITION PART - GENERAL</li> <li>1.1 RELATED DOCUMENTS</li> <li>A. Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> <li>2.2 SUMMARY</li> <li>A. Demolition and removal of existing wood roof trusses, roof deck, roof insulati misocilaneous items from elevation 120-9° above at the project area.</li> <li>2.3 Salvaging tense host by the Owner for reuse.</li> <li>2.3 Salvaging tense host by the Owner for reuse.</li> <li>3.3 DEFINITIONS</li> <li>A. Remove: and Salvage: Detach items from existing construction and dispose of them off-site unless indi misocilaneous items from existing construction and dispose of them off-site unless indi B. Remove: and Salvage: Detach items from existing construction in a manner to prevent Owner. Include Braiseners or brackstein seeded for ratactiment elsewhere.</li> <li>4.4 MATENIALS OWNERSHIP</li> <li>4.5 Netodeut meeting at Project site.</li> <li>6.6 Conduct meeting at Project site.</li> <li>7.6 Review and finalize building demolition statebuilding sitements.</li> <li>7.6 Review and finalize building demolition statebuilding sitements.</li> <li>7.6 Review procedures for protecolures for notecolure and verify availability of equipment, and facilias necessary, for dust control.</li> <li>7.6 Review into be salvaged and returned to Owner.</li> <li>7.6 Review indicale and property, for dust control, for notise control. Indicates the forcing.</li> <li>8.7 Proposed Protection Measures: Submit report, including Drawings, that indicates the forcing.</li> <li>8.7 Excluding approximation foron; Detail special measures proposed to protect the folding a implementation at a during services, if any.</li> <li>9.7 CLOSEOUT SUBMITTALS</li> <li>9.7 Proposed Protection Measures: Submit report, including Drawings, that indicates the focontrol.</li> <li>9.7 CLOSEOUT SUBMITTALS</li> <li>9</li></ul>	entary of ion, roo icated to damage demolif measure roposed ne existi vity. and site operation ued bef nolition s s of adia
<ul> <li>SECTION 024115 - STRUCTURE DEMOLITION PART 1 - GENERAL I.1 RELATED DOCUMENTS A. Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sections, apply to this Section.</li> <li>Section Includes         <ul> <li>Demolstion and removal of existing wood roof trusses, roof deck, roof insulating misceleaneous items from elevation 120-07 above at the project area.</li> <li>Section Includes:</li></ul></li></ul>	entary of adjage
<ul> <li>TEMPORARY FACILITIES AND CONTROLS</li> <li>SECTION 024116 - STRUCTURE DEMOLITION PART 1 - GENERAL</li> <li>RELATED DOCUMENTS</li> <li>A Drawings and general provisions of the Contract, including General and Supplem Division of Specification Sections, apply to this Section.</li> <li>SUMMARY</li> <li>Section Includes:         <ol> <li>Demolition and removal of existing wood roof trusses, roof deck, roof insulat miscellaneous lems from devision (2000) wood at the project area.</li> <li>Salvaging items noted by the Owner for reuse.</li> </ol> </li> <li>Section Includes:         <ol> <li>Demolition and removal of existing wood roof trusses, roof deck, roof insulat miscellaneous lems from devision (2000) wood we the project area.</li> <li>Salvaging items noted by the Owner for reuse.</li> </ol> </li> <li>Section Include fasteners or brackets needed for reatachment elsewhere.</li> <li>Martenikas OWNERSHIP</li> <li>Unless otherwise indicated, demolition waste becomes properly of Contractor.</li> <li>Review and finalize policition fequirements.</li> <li>Review and finalize policition fequirements.</li> <li>Review and finalize policition fequirements.</li> <li>Review and finalize policition requirements.</li> <li>Review and finalize policition requirements.</li> <li>Review and finalize policition devisiting and ending dates for eact actin.</li> <li>Review and finalize policition devisiting and ending dates for eact actin.</li> <li>Review and finalize schell and property, for dust control, for noise control. Indicate pr protecting individuals and property, for dust control, for noise control. Indicate pr construction of basilenges. Stating thyl services, if any.</li> <li>Existing gymnasium flooring: Detail special measures proposed to protect the flooring.</li> <li>Building a mere visite, sit ob bedomished will be vacated and their use discontin induding finalis a</li></ul>	entary ion, roo icated to damage demoli demoli measure oposed ne existi vity. and site operation ued bef nolition s s of adja of adjao
<ul> <li>SECTION 024116 - STRUCTURE DEMOLITION PART 1 - GENERAL         <ul> <li>SECTION 024116 - STRUCTURE DEMOLITION PART 1 - GENERAL             </li> <li>REALTED DOCUMENTS</li></ul></li></ul>	entary i ion, roo icated to damage demolif measure roposed ne existi vity. and site peration ued bef nolition s s of adja as far a
<ul> <li>TEMPORARY FACILITIES AND CONTROLS</li> <li>SECTION 024116 - STRUCTURE DEMOLITION PART 1 - GENERAL</li> <li>11 RELATED DOCUMENTS</li> <li>A Drawings and general provisions of the Contract, including General and Supplem Division 01 Specification Sectors, apply to this Section.</li> <li>12 SUMMARY</li> <li>A Section Includes:         <ol> <li>Demoke the sectors, apply to this Section.</li> <li>Salvaging items noted by the Owner for reuse.</li> <li>Sector Includes:                 <ol></ol></li></ol></li></ul>	entary ion, roo icated to damage demolif measure roposed ne existi vity. and site operation ued bef nolition s s of adja ats of adja ats of adja
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by Owner and authorities having jurisdiction. Provide at least 72 hours' notice to occupants of affected bu required during changeover. LITION Protection: Erect temporary protection, such as walks, fences, s, where required by authorities having jurisdiction and as indice 100 "Temporary Facilities and Controls." t adjacent buildings and facilities from damage due to demolition is t adjacent buildings and facilities from damage due to demolition is t existing site improvements, appurtenances, and landscaping to t etemporary barricades and other protection required to preven int buildings and facilities to remain. e protection to ensure safe passage of people around building ide portions of adjacent buildings. porary barricades and other adjacent exterior construction et avising windows, roots, and other adjacent exterior construction and maintain dustproof partitions and temporary enclosures to lim ide portions of adjacent buildings. porary barriers and protections where hazards no longer exist. Jonitions remain, leave temporary barriers and protections in place N, GENERAL molish indicated building elements completely. Use methods req governing regulations and as follows: t use cutting torches until work area is cleared of flammable ssion devices during flame-cutting operations. in fire watch during and for at least 2 hours after flame-cutting op- in adequate ventilation when using cutting torches. b building demolition equipment and remove debris and materia on supporting walls, floors, or framing. and Temporary Controls: Conduct building demolition. Provide a cled trafficways if required by authorities having jurisdiction. Arear mist and other suitable methods to limit spread of dust mental-protection regulations. Do not use water when it may hazardous o objectionable conditions, such as ice, flooding, and Jse of explosives is not permitted. N BY MECHANICAL MEANS of demolition detarent daving jurisdiction. rat mange to adjacent buildings caused by demolition operations DF	A as acceptable to Owner and ildings if shutdown of service is 024116 - 2 railings, canopies, and covered ted. Comply with requirements in activities. remain. t injury to people and damage to demolition area and to and from in that are to remain and that are it dust, noise, and dirt migration to Where open excavations or other e. uired to complete the Work within materials. Maintain portable fire- erations. Is so as not to impose excessive bris-removal operations to ensure t occupied and used facilities. socupied or used facilities without itternate routes around closed or and dirt. Comply with governing damage adjacent construction or pollution. In higher to lower level. Complete orting members on the next lower r device that will convey debris to uitable to minimize ground impact In EPA-approved construction and djacent surfaces and areas. by building demolition operations.	<ul> <li>B. Defective Units: Referenced masonry unit standards cracks, or other defects exceeding limits stated. Do completed Work.</li> <li>C. CMUs: ASTM C 90. <ol> <li>Unit Compressive Strength: Provide units with psi.</li> <li>Density Classification: Normal weight.</li> </ol> </li> <li>CONCRETE UNIT MASONRY</li> </ul> <li>2. Density Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY</li> <li>2. Aggregate for Mortar: ASTM C 150/C 150M, Type I or II, Provide natural color or white cement as required to p B. Hydrated Lime: ASTM C 207, Type S.</li> <li>C. Aggregate for Mortar: ASTM C 144.</li> <li>D. Aggregate for Grout: ASTM C 404.</li> <li>E. Water: Potable.</li> <li>2.3 REINFORCEMENT</li> <li>A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615 B. Reinforcing Bar Positioners: Wire units designed to f hold reinforcing bars in center of cells. Units are galvanized after fabrication. Provide units designed to f C. Masonry-Joint Reinforcement, General: Ladder type of C. Masonry-Doint Reinforcement, General: Ladder type of C. Masonry-Doint Reinforcement, General: Ladder type of C. Masonry-Doint Phylosecking is charated to the center of colling.</li> <li>C. Tie Section: Triangular-shaped wire tie made fr</li> <li>2.5 EMBEDDED FLASHING MATERIALS</li> <li>A. Metal Flashing: Sheet flashing product made ASTM D 4637/D 4637/M, 0.040 inch (1.02 mm)</li>	<ul> <li>minimum average net-area compressive strength of 215</li> <li>042200 - 1</li> <li>except Type III may be used for cold-weather construction or duce mortar color indicated.</li> <li>6M or ASTM A 996/A 996M, Grade 60 (Grade 420).</li> <li>it into mortar bed joints spanning masonry unit cells and a formed from 0.148-inch (3.77-mm) steel wire, hot-corr number of bars indicated.</li> <li>2 inches (38 mm) into masonry but with at least a 5/8-innet article that are made from materials that comply with the strike are made from materials that comply with the strike are made from 1.133/1.133/1.533M, Class B rom 0.187-inch diameter, hot-dip galvanized steel wire.</li> <li>n SMACNA's "Architectural Sheet Metal Manual" from ethylene-propylene-diene terpolymer, complying with thick.</li> <li>wing:</li> <li>lashing, use metal flashing.</li> <li>at or beyond the wall face, use metal flashing.</li> <li>cated to terminate at the wall face, use metal flashing is strated to terminate at the wall face, use metal flashing is splashing sheets to each other and to substrates.</li> <li>nts, air-entraining agents, accelerators, retarders, wate instruction are unless otherwise indicated.</li> <li>ordar unless otherwise indicated.</li> <li>ading sheets to each other and to substrates.</li> <li>specification.</li> </ul>	he inchathe	SPECIFICATIONS       8/8/202         SPECIFICATIONS       8/8/202         BME       CHECKED:         BME       CHECKED:         BMF       DRAWN:         STRUCTURAL ROOF REPLACEMENT       BMF         STRUCTURAL ROOF REPLACEMENT       BMF         9669 BELLEFONTAINE ROAD       SCALE:         ST. LOUIS, MO 63137       FEG: 220063         ST. LOUIS, MO 63137       FEG: 220063
by Owner and authorities having jurisdiction. e temporary services during interruptions to existing utilities ities having jurisdiction. Provide at least 72 hours' notice to occupants of affected bu required during changeover. LITION Protection: Erect temporary protection, such as walks, fences, s, where required by authorities having jurisdiction and as indica 100 "Temporary Facilities and Controls." t adjacent buildings and facilities from damage due to demolition a t adjacent buildings and facilities form damage due to demolition a t existing site improvements, appurtenances, and landscaping to e temporary barricades and other protection required to preven int buildings and facilities to remain. e protection to ensure safe passage of people around building ed portions of adjacent buildings. and other adjacent exterior construction ad to building demolition operations. and maintain dustproof partitions and temporary enclosures to lim ed portions of adjacent buildings. porary barriers and protections where hazards no longer exist. Inditions remain, leave temporary barriers and protections in place N, GENERAL molish indicated building elements completely. Use methods req governing regulations and as follows: t use cutting torches until work area is cleared of flammable assion devices during flame-cutting operations. and Temporary Controls. Conduct building demolition and det erference with roads, streets, walks, walkways, and other adjacent t close or obstruct streets, walks, walkways, or other adjacent t close or obstruct streets, walks, walkways, or other adjacent t close or obstruct streets, walks, walkways, or other adjacent t close or obstruct streets, walks, walkways, or other adjacent t close or obstruct streets, walks, walkways, or other adjacent t close or obstruct streets, walks, walkways, or other adjacent t close or obstruct streets, walks, walkways, or other adjacent t close or obstruct streets, walks, walkways, or other adjacent t close or obstruct streets, walk	A as acceptable to Owner and ildings if shutdown of service is 024116 - 2 railings, canopies, and covered ted. Comply with requirements in activities. remain. t injury to people and damage to demolition area and to and from in that are to remain and that are it dust, noise, and dirt migration to Where open excavations or other e. uired to complete the Work within materials. Maintain portable fire- erations. Is so as not to impose excessive pris-removal operations to ensure t occupied and used facilities. by coupied or used facilities without uiterate routes around closed or and dirt. Comply with governing damage adjacent construction or pollution. In higher to lower level. Complete orting members on the next lower r device that will convey debris to uitable to minimize ground impact In EPA-approved construction and djacent surfaces and areas. by building demolition operations.	<ul> <li>B. Defective Units: Referenced masonry unit standards cracks, or other defects exceeding limits stated. Do completed Work.</li> <li>C. CMUs: ASTM C 90.</li> <li>1. Unit Compressive Strength: Provide units with psi.</li> <li>2. Density Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY</li> </ul> 2. Density Classification: Normal weight. CONCRETE UNIT MASONRY 3. Portland Cement: ASTM C 150/C 150M, Type I or II, Provide natural color or white cement as required to p <ul> <li>B. Hydrated Lime: ASTM C 207, Type S.</li> <li>C. Aggregate for Grout: ASTM C 144.</li> <li>D. Aggregate for Grout: ASTM C 404.</li> <li>E. Water: Potable.</li> </ul> 2.3 REINFORCEMENT A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615 B. Reinforcing Bar Positioners: Wire units designed to f         hold reinforcing bars in center of cells. Units are         galvanized after fabrication. Provide units designed to f         hold reinforcing bars in center of cells. Units are         galvanized after fabrication. Provide units designed to f         hold reinforcing bars in center of cells. Units are         galvanized after fabrication. 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by Owner and authorities having jurisdiction. e temporary services during interruptions to existing utilities ities having jurisdiction. Provide at least 72 hours' notice to occupants of affected bur required during changeover. LITION Protection: Erect temporary protection, such as walks, fences, s, where required by authorities having jurisdiction and as indice 100 "Temporary Facilities and Controls." t adjacent buildings and facilities from damage due to demolition at t actissting site improvements, appurtenances, and landscaping to e temporary barricades and other protection required to preven ent buildings and facilities to remain. e protection to ensure safe passage of people around building led portions of adjacent buildings and structures. It walls, windows, roofs, and other adjacent exterior construction ed to building demolition operations. and maintain dustproof partitions and temporary enclosures to lim ide portions of adjacent buildings. porary barriers and protections where hazards no longer exist. Indificated building elements completely. 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CMUs: ASTM C 90. <ol> <li>Unit Compressive Strength: Provide units with psi.</li> <li>Density Classification: Normal weight.</li> </ol> </li> <li>CONCRETE UNIT MASONRY</li> </ul> <li>2. Density Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY</li> <li>2. MORTAR AND GROUT MATERIALS <ol> <li>Portiand Cement. ASTM C 107/C 150M, Type I or II, Provide natural color or white cement as required to p B. Hydrated Lime: ASTM C 207, Type S.</li> <li>Aggregate for Mortar: ASTM C 144.</li> <li>Aggregate for Grout: ASTM C 144.</li> <li>Aggregate for Grout: ASTM C 404.</li> <li>Water: Potable.</li> </ol> </li> <li>2.3 REINFORCEMENT <ol> <li>Uncoated Steel Reinforcing Bars: ASTM A 615/A 615</li> <li>Reinforcing Bar Positioners: Wire units designed to fi hold reinforcing bars in center of cells. Units are galvanized after fabrication. Provide units designed fo</li> <li>Masonry-Joint Reinforcement, General: Ladder type of 2.4 TIES AND ANCHORS</li> <li>General: Ties and anchors shall extend at least 1-1/2 (16-mm) cover on outside face.</li> <li>Materials: Provide ties and anchors specified in this following unless otherwise indicated: <ol> <li>Hot-Dip Galvanized, Carbon-Steel Wire: A coating.</li> <li>Tie Section: Triangular-shaped wire tie made fr 2.5 EMBEDDED FLASHING MATERIALS</li> </ol> </li> <li>A Metal Flashing: Provide metal flashing complying with 1. EPDM Flashing: Sheet flashing product made ASTM D 4637/D 4637/D 0.040 inch (1.02 mm)</li> <li>Application: Unless otherwise indicated to receive counterfit.</li> <li>Where flashing is indicated to receive counterfit.</li> <li>Where flashing is indicated to be turned down a 3</li></ol></li>	<ul> <li>minimum average net-area compressive strength of 215 042200 - 1</li> <li>except Type III may be used for cold-weather construction or ont use units where such defects are exposed in the 042200 - 1</li> <li>SM or ASTM A 996/A 996M, Grade 60 (Grade 420).</li> <li>it into mortar color indicated.</li> <li>SM or ASTM A 996/A 996M, Grade 60 (Grade 420).</li> <li>it into mortar bed joints spanning masonry unit cells and a formed from 0.148-inch (3.77-mm) steel wire, hot-optic or number of bars indicated.</li> <li>complying with ASTM A 951/A 951M.</li> <li>2 inches (38 mm) into masonry but with at least a 5/8-inclear end from 0.148-inch (3.77-mm) steel wire.</li> <li>a rticle that are made from materials that comply with the ASTM A 82/A 82M, with ASTM A 153/A 153M, Class B rom 0.187-inch diameter, hot-dip galvanized steel wire.</li> <li>In SMACNA's "Architectural Sheet Metal Manual" from ethylene-propylene-diene terpolymer, complying with thick.</li> <li>wing:</li> <li>lashing, use metal flashing.</li> <li>at or beyond the wall face, use metal flashing.</li> <li>cated to terminate at the wall face, use metal flashing is: Flashing manufacturer's standard products or product flashing sheets to each other and to substrates.</li> <li>ints, air-entraining agents, accelerators, retarders, wate nixtures unless otherwise indicated.</li> <li>ortar unless otherwise indicated.</li> <li>ortar unless otherwise indicated.</li> <li>Specification.</li> </ul>	ss, so so on. tho he as cts ker- by	PECIFICATIONS       8/8/2022         BIAF       CHECKED:         BIAF       CHICKENCIDER NOTE         CHOUIS, MO 63137       FEG: 220063         AS NOTED       COLIS         CHOUIS, MO 63137       FEG: 220063         AS NOTED       CHICKENGRANGE         CHICKENGRANGE       CHICKENGRANGE         CHICKENGRANGE       CHICKENGRANGE     <
by Owner and authorities having interruptions to existing utilities tites having jurisdiction. Provide at least 72 hours' notice to occupants of affected burequired during changeover. LITION Protection: Erect temporary protection, such as walks, fences, s, where required by authorities having jurisdiction and as indica 100 "Temporary Facilities and Controls." t adjacent buildings and facilities from damage due to demolition is t existing site improvements, appurtenances, and landscaping to it exposing and facilities to remain. e protection to ensure safe passage of people around building ed portions of adjacent buildings. portary barricades and other protection required to preven int buildings and facilities to remain. e protection to ensure safe passage of people around building ed portions of adjacent buildings. porary barriers and protections where hazards no longer exist. Jonditions remain, leave temporary barries and protections where hazards no longer exist. Sonditions requilations and as follows: t use cutting torches until work area is cleared of flammable basion devices during flame-cutting operations. and Temporary Controls: Conduct building demolition and deel freence with roads, streets, walks, walkways, or other adjacent is authorities having jurisdiction. Provide a cted trafficways if required by authorities having jurisdiction. Additions and as follows: t use cutting torches until work area is cleared of flammable basion devices during flame-cutting operations. and Temporary Controls: Conduct building demolition and deel afference with roads, streets, walks, walkways, or other adjacent to uso withes having jurisdiction. Provide a cted trafficways if required by authorities having jurisdiction. Provide a stegeneration. By MECHANICAL MEANS n demolition of structural framing members systematically, from olition operations above each floor or tier before disturbing supporting walts from Project site and dispose of them in a abet landfill acceptable to authorities having jurisdiction. t	A as acceptable to Owner and ildings if shutdown of service is 024116 - 2 railings, canopies, and covered ted. Comply with requirements in activities. remain. t injury to people and damage to demolition area and to and from in that are to remain and that are it dust, noise, and dirt migration to Where open excavations or other e. uired to complete the Work within materials. Maintain portable fire- erations. Its so as not to impose excessive pris-removal operations to ensure t occupied and used facilities. Docupied or used facilities. Docupied or used facilities without internate routes around closed or and dirt. Comply with governing damage adjacent construction or pollution. In higher to lower level. Complete orting members on the next lower r device that will convey debris to uitable to minimize ground impact i. In EPA-approved construction and djacent surfaces and areas.	<ul> <li>B. Defective Units: Referenced masonry unit standards cracks, or other defects exceeding limits stated. Do completed Work.</li> <li>C. CMUs: ASTM C 90. <ol> <li>Unit Compressive Strength: Provide units with psi.</li> <li>Density Classification: Normal weight.</li> </ol> </li> <li>CONCRETE UNIT MASONRY</li> </ul> <li>2. Density Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY</li> <li>2. Aggregate for Grout: ASTM C 160/C 150M, Type I or II, Provide natural color or white cement as required to p B. Hydrated Lime: ASTM C 207, Type S.</li> <li>C. Aggregate for Mortar: ASTM C 144.</li> <li>D. Aggregate for Grout: ASTM C 144.</li> <li>D. Aggregate for Grout: ASTM C 404.</li> <li>E. Water: Potable.</li> <li>2.3 REINFORCEMENT</li> <li>A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615 B. Reinforcing bars in center of cells. Units are galvanized after fabrication. Provide units designed to In hold reinforcing bars in center of cells. Units are galvanized after fabrication. Frovide units designed to II hold reinforcing bars in center of cells. Units are galvanized after fabrication. Provide units designed to II. Mold reinforcing bars in center of cells. Units are galvanized after fabrication. Provide units designed to C. Masonry-Joint Reinforcement, General: Ladder type cells.</li> <li>4. General: Ties and anchors shall extend at least 1-1/2 (16-mm) cover on outside face.</li> <li>B. Materials: Provide ties and anchors specified in this following unless otherwise indicated:</li> <li>I. Hot-Dip Galvanized, Carbon-Steel Wire: A coating.</li> <li>Tie Section: Triangular-shaped wire tie made free 100 wing units. Steel flashing complying with 1. EPDM Flashing: Sheet flashing</li>	<ul> <li>any around a certain percensage of difficient of contain only of onot use units where such defects are exposed in the minimum average net-area compressive strength of 215 042200 - 1</li> <li>except Type III may be used for cold-weather construction or ASTM A 996/A 996M, Grade 60 (Grade 420).</li> <li>it into mortar color indicated.</li> <li>6M or ASTM A 996/A 996M, Grade 60 (Grade 420).</li> <li>it into mortar bed joints spanning masonry unit cells and a formed from 0.148-inch (3.77-mm) steel wire, hot-corr number of bars indicated.</li> <li>2 inches (38 mm) into masonry but with at least a 5/8-incline article that are made from materials that comply with the test as 45/8-incline article that are made from materials that comply with the test as 45/8-incline article that are made from materials that comply with the test as 5/8-incline article that are made from materials that comply with the test as 5/8-incline article that are made from materials that comply with the test as 5/8-incline article that are made from materials that comply with the test as 5/8-incline article that are made from materials that comply with the test as 5/8-incline article that are made from materials that comply with the test as 5/8-incline article that are made from the test as the test as the test.</li> <li>and SMACNA's "Architectural Sheet Metal Manual" from ethylene-propylene-diene terpolymer, complying with the test.</li> <li>at or beyond the wall face, use metal flashing.</li> <li>at or beyond the wall face, use metal flashing.</li> <li>at or beyond the wall face, use metal flashing as indicated.</li> <li>at rentraining agents, accelerators, retarders, wate instruces unless otherwise indicated.</li> <li>ortar unless otherwise indicated.</li> <li>ortar unless otherwise indicated.</li> <li>adjents in form of a preblended mix. 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by Owner and authorities having interruptions to existing utilities ties having jurisdiction. Provide at least 72 hours' notice to occupants of affected burequired during changeover. LITION Protection: Erect temporary protection, such as walks, fences, s, where required by authorities having jurisdiction and as indica 00 "Temporary Facilities and Controls." t adjacent buildings and facilities from damage due to demolition at existing site improvements, appurtenances, and landscaping to temporary barricades and other protection required buildings and facilities to remain. e protection to ensure safe passage of people around building deportions of adjacent buildings. t walls, windows, roofs, and other adjacent exterior construction and maintain dustproof partitions and temporary enclosures to limited portions of adjacent buildings. porary barriers and protections where hazards no longer exist. Jonditions remain, leave temporary barriers and protections where hazards no longer exist. Jonditions remain, leave temporary barriers and protections or after at least 100. "Keneral. N GENERAL molish indicated building elements completely. Use methods req governing regulations and as follows: t use cutting torches until work area is cleared of flammable assion devices during flame-cutting operations. and Temporary Controls: Conduct building demolition and deb areference with roads, streets, walks, walkways, or other adjacent t close or obstruct streets, walks, walkways, or other adjacent of tobse or obstruct streets, walks, walkways, or other adjacent of hazardous or objectionable conditions, such as ice, flooding, and Jse of explosives is not permitted. N BY MECHANICAL MEANS notemition of structural framing members systematically, from olition operations above each floor or tier before disturbing supp ris from elevated portions of the building by chute, hoist, or other a controlled descent. we structural framing members and lower to ground by method s sis tgeneration. ies: Cap existing utilities	A as acceptable to Owner and ildings if shutdown of service is 024116 - 2 railings, canopies, and covered ted. Comply with requirements in activities. remain. It injury to people and damage to demolition area and to and from in that are to remain and that are it dust, noise, and dirt migration to Where open excavations or other e. uired to complete the Work within materials. Maintain portable fire- erations. Is so as not to impose excessive orcupied and used facilities. Docupied and used facilities. Docupied or used facilities without ilternate routes around closed or and dirt. Comply with governing damage adjacent construction or pollution.	<ul> <li>B. Defective Units: Referenced masonry unit standards cracks, or other defects exceeding limits stated. Do completed Work.</li> <li>C. CMUs: ASTM C 90. <ol> <li>Unit Compressive Strength: Provide units with psi.</li> <li>Density Classification: Normal weight.</li> </ol> </li> <li>CONCRETE UNIT MASONRY</li> </ul> <li>2. Density Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY</li> <li>2. Portland Cement: ASTM C 150/C 150M, Type I or II, Provide natural color or white cement as required to p B. Hydrated Lime: ASTM C 207, Type S.</li> <li>C. Aggregate for Grout: ASTM C 144.</li> <li>D. Aggregate for Grout: ASTM C 144.</li> <li>D. Aggregate for Grout: ASTM C 404.</li> <li>E. Water: Potable.</li> <li>2.3 REINFORCEMENT</li> <li>A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615 B. Reinforcing Bar Positioners: Wire units designed to f hold reinforcing Bars in center of cells. Units are galvanized after fabrication. Provide units designed for C. Masonry-Joint Reinforcement, General: Ladder type of C. Masonry-Joint Reinforcement, General: Ladder type of C. Masonry-Joint Reinforcement, General: Ladder type of C. Masonry-Joint Reinforcement, General: Cadder type of C.</li> <li>J. Hot-Dip Galvanized, Carbon-Steel Wire: A coating.</li> <li>Tie Section: Triangular-shaped wire tie made for Solowing unless otherwise indicated: <ol> <li>Hot-Dip Galvanized, Carbon-Steel Wire: A coating.</li> <li>Tie Section: Triangular-shaped wire tie made for Astm D 4637/D 4637/D 0400 inch (1.02 mm)</li> </ol> </li> <li>B. Application: Unless otherwise indicated to be turned down a 3. Where flashing: Sheet flashing product made ASTM D 4637/D 4637/D 0400 inch (1.02 mm)</li> <li>B. Application:</li>	<ul> <li>and a certain percentage of units to contain only of onot use units where such defects are exposed in the minimum average net-area compressive strength of 215 (042200 - 1)</li> <li>except Type III may be used for cold-weather construction or duce mortar color indicated.</li> <li>SM or ASTM A 996/A 996M, Grade 60 (Grade 420).</li> <li>it into mortar bed joints spanning masonry unit cells and a formed from 0.148-inch (3.77-mm) steel wire, hot-corr number of bars indicated.</li> <li>complying with ASTM A 951/A 951M.</li> <li>2 inches (38 mm) into masonry but with at least a 5/8-incle article that are made from materials that comply with the tast as the complying with ASTM A 951/A 951M.</li> <li>2 inches (38 mm) into masonry but with at least a 5/8-incle article that are made from materials that comply with the tast as the made from 0.187-inch diameter, hot-dip galvanized steel wire.</li> <li>In SMACNA's "Architectural Sheet Metal Manual" from ethylene-propylene-diene terpolymer, complying with thick.</li> <li>wing:</li> <li>lashing, use metal flashing.</li> <li>at or beyond the wall face, use metal flashing.</li> <li>cated to terminate at the wall face, use metal flashing.</li> <li>s: Flashing manufacturer's standard products or produce lashing sheets to each other and to substrates.</li> <li>nts, air-entraining agents, accelerators, retarders, wate nixtures unless otherwise indicated.</li> <li>edients in form of a preblended mix. Measure quantities in y blend ingredients before delivering to Project site.</li> </ul>	by	ICATIONS IEFONTAINE NEIGHBORS TURAL ROOF REPLACEMENT IS, MO 63137 IS, MO 63137 ICATIONS REALE IND 63137 IS, MO 6414110110110110110110110110110110111011
by Owner and authorities having interruptions to existing utilities tites having jurisdiction. Provide at least 72 hours' notice to occupants of affected burequired during changeover. LITION Protection: Erect temporary protection, such as walks, fences, s, where required by authorities having jurisdiction and as indice 00 "Temporary Facilities and Controls." t adjacent buildings and facilities from damage due to demolition at existing site improvements, appurtenances, and landscaping to it etemporary barricates and other protection required to preven int buildings and facilities to remain. e protection to ensure safe passage of people around building ied portions of adjacent buildings. and maintain dustproof partitions and temporary enclosures to lim edp ortions of adjacent buildings. porary barriers and protections where hazards no longer exist. I andlinan remain, leave temporary barriers and protections in place. N, GENERAL molish indicated building elements completely. 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Tervide at cleat frafficaves if required by authorities having ju	A as acceptable to Owner and ildings if shutdown of service is 024116 - 2 railings, canopies, and covered ted. Comply with requirements in activities. remain. t injury to people and damage to demolition area and to and from in that are to remain and that are it dust, noise, and dirt migration to Where open excavations or other e. uired to complete the Work within materials. Maintain portable fire- erations. Is so as not to impose excessive pris-removal operations to ensure t occupied and used facilities. bocupied or used facilities. bocupied or used facilities without ulternate routes around closed or and dirt. Comply with governing damage adjacent construction or pollution. In higher to lower level. Complete orting members on the next lower r device that will convey debris to uitable to minimize ground impact	<ul> <li>B. Defective Units: Referenced masonry unit standards cracks, or other defects exceeding limits stated. Do completed Work.</li> <li>C. CMUs: ASTM C 90. <ol> <li>Unit Compressive Strength: Provide units with psi.</li> <li>Density Classification: Normal weight.</li> </ol> </li> <li>CONCRETE UNIT MASONRY</li> </ul> <li>2.2 MORTAR AND GROUT MATERIALS <ol> <li>Portland Cement: ASTM C 150/C 150M, Type I or II, Provide natural color or white cement as required to p</li> <li>Hydrated Lime: ASTM C 207, Type S.</li> <li>Aggregate for Mortar: ASTM C 144.</li> <li>Aggregate for Grout: ASTM C 144.</li> <li>Aggregate for Grout: ASTM C 404.</li> <li>Water: Potable.</li> </ol> </li> <li>2.3 REINFORCEMENT <ol> <li>Uncoated Steel Reinforcing Bars: ASTM A 615/A 615</li> <li>Reinforcing Bar Positioners: Wire units designed to f hold reinforcing bars in center of cells. Units are galvanized after fabrication. Provide units designed to f. Masonry-Joint Reinforcement, General: Ladder type C</li> <li>TIES AND ANCHORS</li> <li>General: Ties and anchors shall extend at least 1-1/2 (16-mm) cover on outside face.</li> <li>Materials: Provide ties and anchors specified in this following unless otherwise indicated: <ol> <li>Hot-Dip Galvanized, Carbon-Steel Wire: A coating.</li> <li>Tie Section: Triangular-shaped wire tie made fr</li> </ol> </li> <li>EMBEDDED FLASHING MATERIALS <ol> <li>Metal Flashing: Provide metal flashing complying with</li> <li>EPDM Flashing: Sheet flashing complying with</li> <li>EPDM Flashing: Sheet flashing product made ASTM D 4637/D 4637M, 0.040 inch (1.02 mm)</li> </ol> </li> <li>Application: Unless otherwise indicated, use the follow in detailed.</li> <li>Where flashing is indicated to be turned down a 3. Where flashing is indicated to be turned down a 3. Where flashing is partly exposed and is indic detailed.</li> <li>Application: Unless otherwise indicated, use the follow in detailed.</li> </ol> </li> <li>Andersites, Primers, and Seam Tapes for Flashings recommended by flashing manufacturer for bond</li>	<ul> <li>any around certain percentage of difficient contain only on on the end of the e</li></ul>	ss, 50 50 on. tho dip nch the 3-2 vith as cts ter-	ATIONS       8/8/2022       8/8/2022       ENECKED:       B/8/2022       ENECKED:       ENECKED:       ENECKED:       ENECKED:       ENCINTENDE CENCINER/ING GRO         FONTAINE NEIGHBORS       EMF       CHECKED:       EMF       2725 SUTTON BLVD.         RAL ROOF REPLACEMENT       EFONTAINE ROAD       EAWN:       ACM       ET. LOUIS, MISSOURI 6314.         RAL ROOF REPLACEMENT       EFONTAINE ROAD       ECHECKED:       EAWN:       ET. LOUIS, MISSOURI 6314.         MO 63137       FEG: 220063       AS NOTED       SCALE:       MO 63137       MO 63137
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N BY MECHANICAL MEANS n demolition of structural framing members systematically, from olition operations above each floor or tier before disturbing supp ris from elevated portions of the building by chute, hoist, or othe n a controlled descent. we structural framing members and lower to ground by method s ust generation. ies: Cap existin	, as acceptable to Owner and ildings if shutdown of service is 024116 - 2 railings, canopies, and covered ted. Comply with requirements in activities. remain. t injury to people and damage to demolition area and to and from in that are to remain and that are it dust, noise, and dirt migration to Where open excavations or other e. uired to complete the Work within materials. Maintain portable fire- erations. Is so as not to impose excessive pris-removal operations to ensure t occupied and used facilities. bocupied or used facilities without ulternate routes around closed or and dirt. Comply with governing damage adjacent construction or pollution.	<ul> <li>B. Defective Units: Referenced masonry unit standards cracks, or other defects exceeding limits stated. Do completed Work.</li> <li>C. CMUs: ASTM C 90. <ol> <li>Unit Compressive Strength: Provide units with psi.</li> <li>Density Classification: Normal weight.</li> </ol> </li> <li>CONCRETE UNIT MASONRY</li> </ul> <li>2. Density Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY </li> <li>2. Dorsity Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY </li> <li>2. Dorsity Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY </li> <li>2. Dorsity Classification: Normal weight.</li> <li>CONCRETE UNIT MASONRY </li> <li>2. MORTAR AND GROUT MATERIALS <ol> <li>Portland Cement: ASTM C 150/C 150M, Type I or II, Provide natural color or white cement as required to p</li> <li>Hydrated Lime: ASTM C 207, Type S.</li> <li>Aggregate for Mortar: ASTM C 144.</li> <li>Aggregate for Grout: ASTM C 404.</li> <li>Water: Potable.</li> </ol> </li> <li>2.3 REINFORCEMENT <ol> <li>Uncoated Steel Reinforcing Bars: ASTM A 615/A 615</li> <li>Reinforcing Bar Positioners: Wire units designed to fi hold reinforcing bars in center of cells. Units are galvanized after fabrication. Provide units designed fo</li> <li>Masonry-Joint Reinforcement, General: Ladder type c</li> </ol> </li> <li>2. Tie Sand AncHORS <ol> <li>General: Ties and anchors shall extend at least 1-1/2 (16-mm) cover on outside face.</li> <li>Materials: Provide ties and anchors specified in this following unless otherwise indicated: <ol> <li>Hot-Dip Galvanized, Carbon-Steel Wire: A coating.</li> <li>Tie Section: Triangular-shaped wire tie made fr</li> </ol> </li> <li>2.5 EMBEDDED FLASHING MATERIALS <ol> <li>Metal Flashing: Provide metal flashing complying with</li> <li>EPDM Flashing is indicated to receive counterfit</li> <li>Where flashing is partly exposed and is indic detailed.</li> <li>Where flashing is partly exposed and is indic detailed.</li> </ol> </li> <li>2. 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Where flashing is indicated to be turned down a</li></ul></li>	<ul> <li>minimum average net-area compressive strength of 215</li> <li>042200 - 1</li> <li>except Type III may be used for cold-weather construction or oduce mortar color indicated.</li> <li>5M or ASTM A 996/A 996M, Grade 60 (Grade 420).</li> <li>it into mortar bed joints spanning masonry unit cells and e formed from 0.148-inch (3.77-mm) steel wire, hot-cor number of bars indicated.</li> <li>complying with ASTM A 951/A 951M.</li> <li>2 inches (38 mm) into masonry but with at least a 5/8-incle article that are made from materials that comply with the ASTM A 82/A 82M, with ASTM A 153/A 153M, Class B rom 0.187-inch diameter, hot-dip galvanized steel wire.</li> <li>in SMACNA's "Architectural Sheet Metal Manual"</li> <li>from ethylene-propylene-diene terpolymer, complying with thick.</li> <li>wing:</li> <li>lashing, use metal flashing.</li> <li>at or beyond the wall face, use metal flashing.</li> <li>cated to terminate at the wall face, use metal flashing.</li> <li>s: Flashing manufacturer's standard products or product fashing sheets to each other and to substrates.</li> </ul>	I to on. 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Materials: Provide ties and anchors specified in this following unless otherwise indicated: <ol> <li>Hot-Dip Galvanized, Carbon-Steel Wire: A coating.</li> <li>Tie Section: Triangular-shaped wire tie made fr</li> </ol> </li> <li>2.5 EMBEDDED FLASHING MATERIALS <ol> <li>Metal Flashing: Provide metal flashing complying with</li> <li>EPDM Flashing: Sheet flashing roduct made ASTM D 4637/D 4637/M, 0.040 inch (1.02 mm)</li> </ol> </li> <li>B. Application: Unless otherwise indicated, use the follow <ol> <li>Where flashing is indicated to receive counterflit</li> </ol> </li>	<ul> <li>They allow a certain percentage of units to contain chip o not use units where such defects are exposed in the minimum average net-area compressive strength of 215 042200 - 1</li> <li>except Type III may be used for cold-weather construction or duce mortar color indicated.</li> <li>5M or ASTM A 996/A 996M, Grade 60 (Grade 420).</li> <li>Ti into mortar bed joints spanning masonry unit cells and a formed from 0.148-inch (3.77-mm) steel wire, hot-corr number of bars indicated.</li> <li>complying with ASTM A 951/A 951M.</li> <li>2 inches (38 mm) into masonry but with at least a 5/8-inch article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from materials that comply with the article that are made from the article the article that are made from the article t</li></ul>	ss, he is a set of the isotropy of the isotrop	8/8/2022       8/8/2022       8/8/2022       ERONTENAC ENGINEERING GRO         NEIGHBORS       CHECKED:       CHECKED:       CHECKED:         BMF       CHECKED:       CHECKED:       CHECKED:         DRAWN:       BMF       2725 SUTTON BLVD.       CAL4: 200         CEMENT       ACM       ST. LOUIS, MISSOURI 6314;       PHONE: (314) 644-2200         FEG: 220063       AS NOTED       MO CERTIFICATE OF AUTHORITY: CIVIC TRALENGINEERING: 0012
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by Owner and authorities having jurisdiction. e temporary services during interruptions to existing utilities	, as acceptable to Owner and	B. Defective Units: Referenced masonry unit standards cracks, or other defects exceeding limits stated. Do completed Work.	o not use units where such defects are exposed in th	he	6 6 8 1 4 : 6 3 1 4 : 1 6 : 0012
by Owner and authorities having the first	Area	B. Defective Units: Referenced masonry unit standards	may allow a certain percentage of units to contain chip	os,	$\square \ge \square \ge \square$
t interrupt existing utilities serving adjacent occupied or operati	ing facilities unless authorized in	A. Masonry Standard: Comply with TMS 602/ACI 530.1/A	ABUE 6.		<sub>22</sub> <sup>3</sup> <sup>NG</sup> <sup>D</sup>
ties to Remain: Maintain utility services to remain and protect	from damage during demolition	2.1 UNIT MASONRY, GENERAL			
brevent unexpected movement or collapse of construction being d	, or structural support to preserve emolished.	TMS 602/ACI 530.1/ASCE 6. PART 2 - PRODUCTS			i i i i i i i i i i i i i i i i i i i
berations. Maintain exits from existing buildings.		C. Hot-Weather Requirements: Comply with ho	ot-weather construction requirements contained	in	
N lities: Protect adjacent walkways, loading dooks, building ontrias	and other building facilities during	<ul> <li>B. Do not apply uniform floor or roof loads for at least 12 building masonry walls or columns</li> </ul>	2 hours and concentrated loads for at least three days after	ter	ATE
t start demolition work until utility disconnecting and sealing hav	e been completed and verified in	<ul><li>end of each day's work. Cover partially completed mas</li><li>1. Extend cover a minimum of 24 inches down bot</li></ul>	isonry when construction is not in progress. th sides of walls, and hold cover securely in place.		
f pipe or conduit a minimum of 24 inches below grade. Cap, v of pipe or conduit after bypassing according to requirements of a	alve, or plug and seal remaining uthorities having jurisdiction.	A. Protection of Masonry: During construction, cover tops	s of walls, projections, and sills with waterproof sheeting	at	Image: Provide the second se
e temporary utilities that bypass buildings and structures to b uity of service to other buildings and structures.	e demolished and that maintain	<ul> <li>E. Store masonry accessories, including metal items, to p</li> <li>1.5 FIELD CONDITIONS</li> </ul>	prevent corrosion and accumulation of dirt and oil.		EVISI
e to shut off utilities with utility companies. oval, relocation, or abandonment of utility services will affect a	djacent occupied buildings, then	<ul> <li>Deliver preblended, dry mortar mix in moisture-resista containers on elevated platforms in a dry location or in</li> </ul>	ant containers. Store preblended, dry mortar mix in delive n covered weatherproof dispensing silos.	ery	
s to be demolished. will arrange to shut off utilities when requested by Contractor.		avoided.			DES
IVICES AND MECHANICAL/ELECTRICAL SYSTEMS ies to be Disconnected: Locate, identify, disconnect, and seal or	r cap off utilities serving buildings	materials that have become damp.	ed characteristics can be maintained and contomination	on	EMA
t items from damage during transport and storage.		<ul><li>dry.</li><li>B. Store cementitious materials on elevated platforms up</li></ul>	under cover, and in a dry location. Do not use cementition	us	TION
tems in a secure area until delivery to Owner.		<ul> <li>A. Store masonry units on elevated platforms in a dry loc tops and sides of stacks with waterproof sheeting, see</li> </ul>	cation. If units are not stored in an enclosed location, cove curely tied. If units become wet, do not install until they a	/er are	
salvaged items of dirt and demolition debris.		1.4 DELIVERY, STORAGE, AND HANDLING			
ON ns: Comply with the following:		2. Reinforcing Steel: Detail bending, lap lengths, with ACI 315.	, and placement of unit masonry reinforcing bars. Comp	ply	
at might be misconstrued as damage caused by salvage operation c Documentation.	ons. Comply with Section 013233	<ul> <li>B. Shop Drawings: For the following:</li> <li>1. Masonry Units: Show sizes, profiles, coursing, a</li> </ul>	and locations of special shapes.		
zardous materials have been remediated before proceeding with d record the condition of items to be removed and salvaged.	building demolition operations. Provide photographs or video of	1. Product Certificates			SIGN THES THES FO FO SPECLA PRO CLAN FO PRO PRO FINSTI CANNO FO CANNO FO FO CANNO FO FO FO FO FO FO FO FO FO FO FO FO FO
cord Documents.	tions are same as those indicated	A. Product Data: For each type of product.		ROF ESSI	JATURE / JATURE / LOCUMA BREAFE BREAT GINEERIN GINEERIN GINEERIN AMS AN AMS AN ANS AN AMS AN ANS AN
ect Record Documents of existing construction or other existing	condition and hazardous material	<ul> <li>B. Reinforced Masonry: Masonry containing reinforcing s</li> <li>1.3 ACTION SUBMITTALS</li> </ul>	steel in grouted cells.	E STANDO	APPLY OI IENT TO STRUCTU STRUCTU STRUCTU SAPPLICE SAPPLIC
) DN litics have been disconnected and cannod before starting domalities	ion operations	A. CMU(s): Concrete masonry unit(s).		dive the	NLY TO WHICH URAL LAND ABLE: THE ABLE: THE ABLE: THE ANIS, NMATES, ANIS, NMATES, ANIS, CONTHE OSED FOR SEE FOR
omply with ASSE A10.6 and NFPA 241.		<ol> <li>Masonry-joint reinforcement.</li> <li>DEFINITIONS</li> </ol>			
Requirements: Comply with governing EPA notification regulation hauling and disposal regulations of authorities having jurisdiction.	ons before beginning demolition.	<ol> <li>Steel reinforcing bars.</li> </ol>			
NCE REQUIREMENTS		<ol> <li>Concrete masonry units.</li> <li>Mortar and grout</li> </ol>			
TON olition schedule so as not to interfere with Owner's on-site operation	ons.	A. Section Includes:			
Owner. Hazardous materials will be removed by Owner under a se ge or sale of removed items or materials is not permitted.	eparate contract.	PART 1 - GENERAL			
erials suspected of containing hazardous materials are encounter	ered, do not disturb; immediately	SECTION 042200 - CONCRETE UNIT MASONRY			
	erials suspected of containing hazardous materials are encount. Dwner. Hazardous materials will be removed by Owner under a se ge or sale of removed items or materials is not permitted. TION olition schedule so as not to interfere with Owner's on-site operati NCE REQUIREMENTS Requirements: Comply with governing EPA notification regulated hauling and disposal regulations of authorities having jurisdiction. tomply with ASSE A10.6 and NFPA 241. I N N litites have been disconnected and capped before starting demolit act Record Documents of existing construction or other existing rovided by Owner. Owner does not guarantee that existing condi cord Documents. uzardous materials have been remediated before proceeding with d record the condition of items to be removed and salvaged. at might be misconstrued as damage caused by salvage operati c Documents. The selvaged items of dirt and demolition debris. for crate items after cleaning. Identify contents of containers. tems in a secure area until delivery to Owner. titems from damage during transport and storage. RVICES AND MECHANICAL/ELECTRICAL SYSTEMS ties to be Disconnected: Locate, identify, disconnect, and seal or is to be demolished. "will arrange to shut off utilities when requested by Contractor. ye to shut off utilities mand on utility services will affect as a temporary utilities that bypass buildings and structures to b uity of service to other buildings and structures. f pipe or conduit a fler bypassing according to requirements of a t start demolition work until utility disconnecting and sealing hav N N N N N N N N N N N N N	erials suspected of containing hazardous materials are encountered, do not disturb; immediately Dwner. Hazardous materials will be removed by Owner under a separate contract. ge or sale of removed items or materials is not permitted. TION olition schedule so as not to interfere with Owner's on-site operations. NCE REQUIREMENTS Sequirements: Comply with governing EPA notification regulations before beginning demolition. hauling and disposal regulations of authorities having jurisdiction. iomply with ASSE A10.6 and NFPA 241. I N littles have been disconnected and capped before starting demolition operations. et Record Documents of existing construction or other existing condition are same as those indicated cord Documents. zardous materials have been remediated before proceeding with building demolition operations. d record the condition of items to be removed and salvaged. Provide photographs or video of at might be misconstrued as damage caused by salvage operations. Comply with Section 013233 c Documents. zardous materials nave been remediated befores. record the condition of items to be removed and salvaged. Provide photographs or video of at might be misconstrued as damage caused by salvage operations. Comply with Section 013233 c Documentation. ON ms: Comply with the following: salvaged items of dirt and demolition debris. or crate items after cleaning. Identify contents of containers. terms in a secure area until dilivery to Owner. Sort items to storage area designated by Owner. 11 tems from damage during transport and storage. XVICES AND MECHANICAL/LECTERCRCLAL SYSTEMS ies to be Disconnected: Locate, identify, disconnect, and seal or cap off utilities serving buildings is to be demolished. "will arrange to shut off utilities when requested by Contractor. te to shut off utilities with utility companies. oval, relocation, or abandonment of utility services will affect adjacent occupied buildings, then a temporary utilities that bypass buildings and structures to be demolis	<ul> <li>strais suspected of containing hazardous materials are encountered, do not disturb; immediately Warer, Hazardous materials will be removed by Owner under a separate contract. go raise of removed lense or materials is not permitted.</li> <li>Strait Suspected Lenser materials is not permitted.</li> <li>SUSCE REQUIREMENTS</li> <li>Requirements: Comply with governing EPA notification regulations before beginning demolition. haling and disposed regulations or authorities having juriadiction.</li> <li>Concrete masonry units.</li> <li>Destination or other existing condition operations.</li> <li>Concrete masonry units.</li> <li>Destination denses.</li> <li>Product Data: For each type of product.</li> <li>Store masonry units on elevated platforms in a dry location or there withing a damage during transport and storage.</li> <li>Most and group durits: Show eizes, profiles, coursing.</li> <li>Reinforcing Stele: Detail bending. Lap lengths. with ACS15.</li> <li>Destinations with the following:</li> <li>Store masonry units on elevated platforms in a dry location or to fullities serving buildings, et an interials that have becom damp.</li> <li>Store masonry units on elevated platforms in a dry location or to fullities serving buildings.</li> <li>Product Catilics and there grading and other require avoided.</li> <li>Store commettion with unit in moisture-resisting conditions operations.</li> <li>Store commetted: Locate, identify disconnect, and seal or cap off utilities serving buildings, et al.</li> <li>Store comenentition were with any become damp.</li> <li>Store commet</li></ul>	<ul> <li>sussected of containing hazadows metarials are accountered, do not disturb; immediately ge or sale of renoved large or materials is not permitted.</li> <li>Section M42203 - CONCRETE UNIT MASCHAY</li> <li>PART 1 - GENERAL</li> <li>Section M42203 - CONCRETE UNIT MASCHAY</li> <li>PART 1 - GENERAL</li> <li>Section M42203 - CONCRETE UNIT MASCHAY</li> <li>PART 1 - GENERAL</li> <li>Section M42203 - CONCRETE UNIT MASCHAY</li> <li>PART 1 - GENERAL</li> <li>Section M42203 - CONCRETE UNIT MASCHAY</li> <li>PART 1 - GENERAL</li> <li>Section M42203 - CONCRETE UNIT MASCHAY</li> <li>PART 1 - GENERAL</li> <li>Section M42203 - CONCRETE UNIT MASCHAY</li> <li>PART 1 - GENERAL</li> <li>Section M42203 - CONCRETE UNIT MASCHAY</li> <li>PART 1 - GENERAL</li> <li>Concrete masory units.</li> <li>Concrete masory units.</li> <li>Masser MASE A10.5 and NFPA 241.</li> <li>Concrete masory units.</li> <li>Masser Masser M4300 - Masser</li></ul>	Supported of containing huzardous materials in the service during of second by Over under a sequetab output of the service during of finance during on the individual to as not to interiore with Overs' consideration of the condition to interiore with Overs' consideration of the condition of the interiore with Overs' consideration on the interiore with Overs' consideration of the condition of the conditien of the condition of the condition of the conditient of the c

- 2. Verify that foundations are within tolerances specified.
- 3. Verify that reinforcing dowels are properly placed.
- 4. Verify that substrates are free of substances that would impair mortar bond. B. Before installation, examine rough-in and built-in construction for piping systems to verify a
- piping. C. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.2 INSTALLATION, GENERAL
- A. Leave openings for equipment to be installed before completing masonry. After installing equi masonry to match construction immediately adjacent to opening.
- B. Use full-size units without cutting if possible. If cutting is required to provide a continuous adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edg dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, wh edges concealed.
- 3.3 LAYING MASONRY WALLS

A. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in run use units with less-than-nominal 4-inch (100-mm) horizontal face dimensions at corners or jam B. Stopping and Resuming Work: Stop work by stepping back units in each course from those in not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loc

and mortar, and wet brick if required before laying fresh masonry. C. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of

mesh, or plastic mesh in the joint below, and rod mortar or grout into core. D. Fill cores in hollow CMUs with grout 24 inches (600 mm) under bearing plates, beams, lintels, items unless otherwise indicated.

- 3.4 MORTAR BEDDING AND JOINTING
- A. Lay hollow CMUs as follows:
  - 1. Bed face shells in mortar and make head joints of depth equal to bed joints.
  - 2. Bed webs in mortar in all courses of piers, columns, and pilasters.
  - 3. Bed webs in mortar in grouted masonry, including starting course on footings.
- 4. Fully bed entire units, including areas under cells, at starting course on footings wh grouted.
- B. Lay solid CMUs with completely filled bed and head joints; butter ends with sufficient mortar and shove into place. Do not deeply furrow bed joints or slush head joints.
- C. Set cast-stone trim units in full bed of mortar with full vertical joints. Fill dowel, anchor, and simi Clean soiled surfaces with fiber brush and soap powder and rinse thoroughly with clear 1. 2. Wet joint surfaces thoroughly before applying mortar.
- Rake out mortar joints for pointing with sealant. 3.
- D. Rake out mortar joints at pre-faced CMUs to a uniform depth of 1/4 inch (6 mm) and point wit comply with epoxy-mortar manufacturer's written instructions.
- E. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other the otherwise indicated.
- F. Cut joints flush where indicated to receive waterproofing unless otherwise indicated. 3.5 MASONRY-JOINT REINFORCEMENT
- A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8
- exterior side of walls, 1/2 inch (13 mm) elsewhere. Lap reinforcement a minimum of 6 inches ( B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.
- C. Provide continuity at wall intersections by using prefabricated T-shaped units. D. Provide continuity at corners by using prefabricated L-shaped units.

CONCRETE UNIT MASONRY

042200 -

### CONTROL AND EXPANSION JOINTS 3.6

- A. General: Install control- and expansion-joint materials in unit masonry as masonry progress materials to span control and expansion joints without provision to allow for in-plane wall or part 3.7 LINTELS
- A. Provide masonry lintels where shown and where openings of more than 12 inches (305 mm) for and 24 inches (610 mm) for block-size units are shown without structural steel or other supporti B. Provide minimum bearing of 8 inches (200 mm) at each jamb unless otherwise indicated.
- 3.8 FLASHING
- A. General: Install embedded flashing at ledges and other obstructions to downward flow of war indicated.
- B. Install flashing as follows unless otherwise indicated:
  - 1. At lintels, extend flashing a minimum of 6 inches (150 mm) into masonry at each end. A extend flashing 6 inches (150 mm) at ends and turn up not less than 2 inches (50 mm) to
- 2. Interlock end joints of ribbed sheet metal flashing by overlapping ribs not less than 1-1/2 or as recommended by flashing manufacturer, and seal lap with elastomeric sealant requirements in Section 079200 "Joint Sealants" for application indicated.
- Install metal drip edges with ribbed sheet metal flashing by interlocking hemmed edges 3. seam. Seal seam with elastomeric sealant.
- Install reglets and nailers for flashing and other related construction where they are shown C. masonry.
- 3.9 REINFORCED UNIT MASONRY INSTALLATION
- A. Placing Reinforcement: Comply with requirements in TMS 602/ACI 530.1/ASCE 6. B. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough
- grout pressure. Comply with requirements in TMS 602/ACI 530.1/ASCE 6 for cleanouts and for 1

A. Testing and Inspecting: Owner will engage special inspectors to perform tests and inspection reports. Allow inspectors access to scaffolding and work areas as needed to perform tests Retesting of materials that fail to comply with specified requirements shall be done at Contractor

- A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise dar not match adjoining units. Install new units to match adjoining units; install in fresh mortar, poi evidence of replacement.
- Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and co Β. mortar. Point up joints, including corners, openings, and adjacent construction, to provide appearance. Prepare joints for sealant application, where indicated.
- C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove smears before tooling joints.
- D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows: 1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoe
- 2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning
- 3. Clean concrete masonry by applicable cleaning methods indicated in NCMA TEK 8-4A. 3.12 MASONRY WASTE DISPOSAL
- A. Unless otherwise indicated, excess masonry materials are Contractor's property. At completion work, remove from Project site.

END OF SECTION 042200

CONCRETE UNIT MASONRY

- including minimum grout space and maximum pour height. 3.10 FIELD QUALITY CONTROL
  - 3.11 REPAIRING, POINTING, AND CLEANING

3.1 A. B.	<ul> <li>EXAMINATION</li> <li>Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.</li> <li>1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.</li> <li>Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ul>			ET NO. SPEC	<b>BEI</b> STRU 9669
C. D. E. F. G. 2.4 A. B. 2.5 A. B. 2.5 A. B. 2.6 A. 2.7 A. 2.7 A. 2.8 A.	<ul> <li>Hard Cement: Linke Wilk, Fackaged blend of portiand cement and hydrated lime containing no other ingredients.</li> <li>Masonry Cement: ASTM C 91/C 91M.</li> <li>Mortar Cement: ASTM C 1329/C 1329M.</li> <li>Aggregate for Mortar: ASTM C 144.</li> <li>Water: Potable.</li> <li>TIES AND ANCHORS</li> <li>General: Ties and anchors shall extend at least 1-1/2 inches (38 mm) into veneer but with at least a 5/8-inch (16-mm) cover on outside face.</li> <li>Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:</li> <li>Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M, with ASTM A 153/A 153M, Class B-2 coating.</li> <li>EMBEDDED FLASHING MATERIALS</li> <li>Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual".</li> <li>Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.</li> <li>MISCELLANEOUS MASONRY ACCESSORIES</li> <li>Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent.</li> <li>MASONRY CLEANERS</li> <li>Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.</li> <li>MORTAR MIXES</li> <li>MORTAR MIXES</li> <li>Mortar for Unit Masonry: Comply with ASTM C 270, [Proportion] [Property] Specification. Use Type M or S.</li> </ul>			FICATIONS	LEFONTAINE NEIGHBORS CTURAL ROOF REPLACEMENT BELLEFONTAINE ROAD
C. PART 2 - 2.1 A. 2.2 A. 2.3 A. B.	<ul> <li>4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.</li> <li>Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.</li> <li><b>- PRODUCTS</b></li> <li>UNIT MASONRY, GENERAL</li> <li>Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6, except as modified by requirements in the Contract Documents.</li> <li>BRICK</li> <li>General: Provide shapes and color to match existing masonry.</li> <li>MORTAR MATERIALS</li> <li>Portland Cement: ASTM C 150/C 150M, Type I or II, except Type III may be used for cold-weather construction.</li> <li>Provide natural color or white cement as required to produce mortar color indicated.</li> <li>1. Alkali content shall not be more than 0.1 percent when tested according to ASTM C 114.</li> <li>Hydrated Lime: ASTM C 207, Type S.</li> <li>Portland Cement Ime Mix: Backaged bland of pertined cement and budgeted line centeries are at the pertined.</li> </ul>	<ol> <li>Test cleaning methods on sample wall pane purposes. Obtain Architect's approval of sample</li> <li>Protect adjacent stone and nonmasonry surface strippable masking agent or polyethylene film an</li> <li>Wet wall surfaces with water before applying thoroughly with clear water.</li> <li>Clean brick by bucket-and-brush hand-cleaning in</li> <li>Clean masonry with a proprietary acidic cleaner</li> <li>Clean stone trim to comply with stone supplier's</li> <li>Clean limestone units to comply with recommender</li> </ol>	el; leave one-half of panel uncleaned for comparison e cleaning before proceeding with cleaning of masonry. es from contact with cleaner by covering them with liquid nd waterproof masking tape. cleaners; remove cleaners promptly by rinsing surfaces method described in BIA Technical Notes 20. applied according to manufacturer's written instructions. written instructions. dations in ILI's "Indiana Limestone Handbook."	DATE: 8/8/2022	CHECKED: BMF DRAWN: ACM ACM
C. D. E. 1.7 A. B.	<ul> <li>Store aggregates where grading and other required characteristics can be maintained and contamination avoided.</li> <li>Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.</li> <li>Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.</li> <li>FIELD CONDITIONS</li> <li>Protection of Masonry: During construction, cover tops of veneer, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.</li> <li>1. Extend cover a minimum of 24 inches down face of veneer, and hold cover securely in place.</li> <li>Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry. Immediately remove grout, mortar, and soil that come in contact with masonry.</li> <li>1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.</li> <li>2. Protect sills, ledges, and projections from mortar droppings.</li> <li>3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.</li> <li>2. NRY VENEER</li> </ul>	<ul> <li>E. Concrete Masonry Unit Test: For each type of unit provide</li> <li>E. Concrete Masonry Unit Test: For each type of unstrength.</li> <li>F. Mortar Aggregate Ratio Test (Proportion Specification</li> <li>G. Mortar Test (Property Specification): For each micompressive strength.</li> <li>3.7 REPAIRING, POINTING, AND CLEANING</li> <li>A. Remove and replace masonry units that are loose, or not match adjoining units. Install new units to match evidence of replacement.</li> <li>B. Pointing: During the tooling of joints, enlarge voids mortar. Point up joints, including corners, opening: appearance. Prepare joints for sealant application, with smears before tooling joints.</li> <li>D. Final Cleaning: After mortar is thoroughly set and currant.</li> <li>MASONRY VENEER</li> </ul>	Init provided, according to ASTM C 140 for compressive n): For each mix provided, according to ASTM C 780. Test mortar for chipped, broken, stained, or otherwise damaged or that do adjoining units; install in fresh mortar, pointed to eliminate s and holes, except weep holes, and completely fill with is, and adjacent construction, to provide a neat, uniform here indicated. k progresses by dry brushing to remove mortar fins and red, clean exposed masonry as follows: ooden paddles and nonmetallic scrape hoes or chisels. 042613 - 3	ONTENAC ENGINEERING GROUP	725 SUTTON BLVD. 725 SUTTON BLVD. 7. LOUIS, MISSOURI 63143 0NE: (314) 644-2200 ww.fe-stl.com
1.1 A. 1.2 A. B. 1.3 A. 1.4 A. B. 1.5 A. 1.5 A. B. 1.6 A. B.	RELATED DOCUMENTS         Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division         01 Specification Sections, apply to this Section.         SUMMARY         Section Includes:         1.       Clay face brick.         2.       Mortar.         3.       Ties and anchors.         4.       Embedded flashing.         5.       Miscellaneous masonry accessories.         Products Installed but not Furnished under This Section:         1.       Steel lintels or shelf angles in masonry veneer.         DEFINITIONS         CMU(s): Concrete masonry unit(s).         ACTION SUBMITTALS         Product Data: For each type of product.         Samples for Verification: If required by Owner:         1.       Clay face brick         INFORMATIONAL SUBMITTALS         Material Certificates: For each type and size of the following:         1.       Masonry units: Include data on material properties.         2.       Cementitious materials. Include description of type and proportions of ingredients.         5.       Anchors, ties, and metal accessories.         DELIVERY, STORAGE, AND HANDLING       Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, se	<ul> <li>A. Leave openings for equipment to be installed before masonry to match the construction immediately adjace</li> <li>B. Use full-size units without cutting if possible. If cut adjoining construction, cut units with motor-driven sedry before laying unless wetting of units is specified. edges concealed.</li> <li>C. Select and arrange units for exposed unit masonry to from several pallets or cubes as they are placed.</li> <li>D. Matching Existing Masonry: Match coursing, bonding</li> <li>E. Wetting of Brick: Wet brick before laying if initial rate minute when tested according to ASTM C 67. Allow to flaying.</li> <li>3.3 EXPANSION JOINTS</li> <li>A. General: Install expansion-joint materials in unit maspan expansion joints without provision to allow for in span expansion joints without provision to allow for in 3.4 LINTELS</li> <li>A. Install steel lintels where indicated.</li> <li>B. Provide minimum bearing of 8 inches (200 mm) at ea 3.5 FLASHING, WEEP HOLES, AND VENTS</li> <li>A. General: Install embedded flashing and weep he obstructions to downward flow of water in wall, and w</li> <li>B. Install reglets and nailers for flashing and other re masonry.</li> <li>C. Install weep holes in veneers in head joints of first cord drainage material in "Miscellaneous Masonry Accesss</li> <li>3.6 FIELD QUALITY CONTROL</li> <li>A. Testing and Inspecting: Owner will engage special reports. Allow inspectors access to scaffolding and Retesting of materials that fail to comply with specifie</li> <li>B. Inspections: Special inspections according to Level B 1. Begin masonry construction only after inspecto</li> <li>C. Testing Prior to Construction: One set of tests.</li> </ul>	cent to open ing. Itting is required to provide a continuous pattern or to fit aws; provide clean, sharp, unchipped edges. Allow units to . Install cut units with cut surfaces and, where possible, cut to produce a uniform blend of colors and textures. Mix units g, color, and texture of existing masonry. of absorption exceeds 30 g/30 sq. in. (30 g/194 sq. cm) per units to absorb water so they are damp but not wet at time asonry as masonry progresses. Do not allow materials to n-plane wall or partition movement. ach jamb unless otherwise indicated. oles in masonry at shelf angles, lintels, ledges, other where indicated. elated construction where they are shown to be built into murse of masonry immediately above embedded flashing. eneers to comply with configuration requirements for cavity sories" Article. I inspectors to perform tests and inspections and prepare l work areas as needed to perform tests and inspections. a in TMS 402/ACI 530/ASCE 5. ors have verified proportions of site-prepared mortar.	THE PROFESSIONAL SEAL AND SIGNATURE APPLY ONLY TO THIS DOCUMENT TO WHICH THEY ARE AFFIXED AND ONLY FOR CUNLSTRUCTUREA	ENGINEERING AND LAND EURVEVING AS APPLCABLE THE SURVEVING AS APPLCABLE THE PROFESSINAL EXPERSIV DISCLIMS ANY REPONSIBILITY FOR ALL OTHER PLANS, SFECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTURMENTS, RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT OWHICH THIS

# SECTION 051200 - STRUCTURAL STEEL FRAMING

PART 1 - GENERAL 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementar Division 01 Specification Sections, apply to this Section.
- 1.2 SUMMARY
- A. Section Includes:
- Structural steel. 1.
- 1.3 ACTION SUBMITTALS
- Product Data: For each type of product.
- B. Shop Drawings: Show fabrication of structural-steel components.
- Include details of cuts, connections, splices, camber, holes, and other pertinent data. 1. Include embedment Drawings. 2.
- 1.4 INFORMATIONAL SUBMITTALS
- A. Source quality-control reports. B. Field quality-control and special inspection reports.
- QUALITY ASSURANCE 1.5
- A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification designated an AISC-Certified Plant.
- B. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification designated an AISC-Certified Erector.
- C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, " Code - Steel."
- 1. Welders and welding operators performing work on bottom-flange, demand-critical we supplemental welder qualification testing, as required by AWS D1.8/D1.8M. FCAW-S a be considered separate processes for welding personnel qualification.
- D. Comply with applicable provisions of the following specifications and documents:
- 1. AISC 303.
- 2. AISC 341 and AISC 341s1.
- 3. AISC 360.
- 4. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- 1.6 DELIVERY, STORAGE, AND HANDLING
- A. Store materials to permit easy access for inspection and identification. Keep steel member spaced by using pallets, dunnage, or other supports and spacers. Protect steel membe materials from corrosion and deterioration.
- Do not store materials on structure in a manner that might cause distortion, damage 1. members or supporting structures. Repair or replace damaged materials or structures a
- B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact. 1. Fasteners may be repackaged provided Owner's testing and inspecting agency obso and seals containers.
- Clean and relubricate bolts and nuts that become dry or rusty before use. 2.
- Comply with manufacturers' written recommendations for cleaning and lubricat 3
- fasteners and for retesting fasteners after lubrication.
- PART 2 PRODUCTS
- 2.1 STRUCTURAL-STEEL MATERIALS
- A. W-Shapes: ASTM A 992/A 992M
- STRUCTURAL STEEL FRAMING

- 051200 -
- B. Channels, Angles, M, S-Shapes: ASTM A 36/A 36M
- C. Plate and Bar: ASTM A 36/A 36M
- D. Corrosion-Resisting Structural-Steel Shapes, Plates, and Bars: ASTM A 588/A 588M, Grade
- E. Cold-Formed Hollow Structural Sections: ASTM A 500/A 500M.
- Steel Pipe: ASTM A 53/A 53M, Type E or Type S, Grade B. F.
- G. Welding Electrodes: Comply with AWS requirements.
- 2.2 BOLTS, CONNECTORS, AND ANCHORS
- A. High-Strength Bolts, Nuts, and Washers: ASTM A 325 (ASTM A 325M), Type 1, heavy-hex ste B. Shear Connectors: ASTM A 108, Grades 1015 through 1020, headed-stud type, cold-finis
- AWS D1.1/D1.1M, Type B.
- C. Anchor Rods: ASTM F 1554, Grade 36
- 1. Configuration: Straight.
- Nuts: ASTM A 563 (ASTM A 563M).
- Plate Washers: ASTM A 36/A 36M carbon steel. 3.
- 4. Washers: ASTM F 436 (ASTM F 436M), Type 1, hardened carbon steel.
- 5. Finish: Hot dipped galvanized, ASTM A153.
- 2.3 PRIMER
- Primer: Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting prime A. MPI#79 and compatible with topcoat.
- 2.4 GROUT
- Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107/C 1107M, factory-packaged, nonr Α. grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application working time.
- 2.5 FABRICATION
- Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate accor Α. "Code of Standard Practice for Steel Buildings and Bridges," and to AISC 360.
- Thermal Cutting: Perform thermal cutting by machine to greatest extent possible. В. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1/D1.1
- C. Bolt Holes: Cut, drill, or punch standard bolt holes perpendicular to metal surfaces.
- D. Finishing: Accurately finish ends of columns and other members transmitting bearing loads. E. Shear Connectors: Prepare steel surfaces as recommended by manufacturer of shear automatic end welding of headed-stud shear connectors according to AWS D1.1/D1.1M a written instructions.
- F. Holes: Provide holes required for securing other work to structural steel and for other work to p members.
- 1. Cut, drill, or punch holes perpendicular to steel surfaces. Do not thermally cut bolt hole by burning.
- Baseplate Holes: Cut, drill, mechanically thermal cut, or punch holes perpendicular to st Weld threaded nuts to framing and other specialty items indicated to receive other work. 3.
- 2.6 SHOP CONNECTIONS
- High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for A. Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
- B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, we specifications, weld quality, and methods used in correcting welding work.
  - Assemble and weld built-up sections by methods that maintain true alignment of axes 1. tolerances in AISC 303 for mill material.

STRUCTURAL STEEL FRAMING

	2.7 SHOP PRIMING	1. In addition to visu following inspection
	<ul> <li>Shop prime steel surfaces except the following:</li> <li>1. Surfaces embedded in concrete or mortar. Extend priming of partially embedded members to a depth of 2</li> </ul>	a. Liquid Penet
ry Conditions and	2. Surfaces to be field welded.	b. Magnetic Pa zones of inc
	<ol> <li>Surfaces of high-strength bolted, slip-critical connections.</li> <li>Surfaces to maximum of fine projection and the surface for the strength of fine projection.</li> </ol>	c. Ultrasonic In d. Radiographi
	<ol> <li>Surfaces to receive sprayed fire-resistive materials (applied fireproofing).</li> <li>Galvanized surfaces.</li> </ol>	D. In addition to visual insp
	6. Surfaces enclosed in interior construction.	1. Perform bend tests
	B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.	repairs to any shea
	C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils (0.038 mm). Use priming	fracture occurs on
	methods that result in full coverage of joints, corners, edges, and exposed surfaces.	A. Galvanized Surfaces: Cle
	<ol> <li>Apply two coats of shop paint to surfaces that are inaccessible after assembly or erection. Change color</li> </ol>	with ASTM A 780/A 780M B. Touchup Painting: Imme
	2.8 GALVANIZING	paint with the same mate surfaces.
ion Program and is	A. Hot-Dip Galvanized Finish: Apply zinc coating by the hot-dip process to structural steel according to ASTM A 123/A 123M	1. Clean and prepare
on Program and is	1. Fill vent and drain holes that are exposed in the finished Work unless they function as weep holes, by	C. Touchup Painting: Clear Section 099123 "Interior I
Structural Welding	<ol> <li>plugging with zinc solder and filing off smooth.</li> <li>Galvanize lintels and shelf angles located in exterior masonry walls.</li> </ol>	D. Touchup Priming: Cleanir
	B. Welded Connections: Visually inspect shop-welded connections according to AWS D1.1/D1.1M and the following inspection procedures at testing agency's option:	END OF SECTION 051200
and FCAW-G shall	1. Liquid Penetrant Inspection: ASTM E 165.	
	<ol> <li>Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.</li> </ol>	
	3. Ultrasonic Inspection: ASTM E 164.	
	<ul> <li>Radiographic Inspection: ASTM E 94.</li> <li>C. In addition to visual inspection, test and inspect shop-welded shear connectors according to requirements in</li> </ul>	
	AWS D1.1/D1.1M for stud welding and as follows:	
ers off ground and	repairs to any shear connector.	
ers and packaged	<ol> <li>Conduct tests according to requirements in AWS D1.1/D1.1M on additional shear connectors if weld fracture occurs on shear connectors already tested.</li> </ol>	
ge, or overload to	D. Prepare test and inspection reports.	
	3.1 EXAMINATION	
erves repackaging	A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.	
	<ol> <li>Prepare a certified survey of existing conditions. Include bearing surfaces, anchor rods, bearing plates, and other embedments showing dimensional lagetime, and elayetime.</li> </ol>	
ting ASTM F 1852	<ul> <li>B. Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ul>	
	3.2 PREPARATION	
	A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads.	
- 1	STRUCTURAL STEEL FRAMING 051200 - 3	STRUCTURAL STEEL FRAMIN
	Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated.	<u>SECTION 052100 - STEEL JOIST</u> PART 1 - GENERAL
50 (345).	<ol> <li>Do not remove temporary shoring supporting composite deck construction until cast-in-place concrete has attained its design compressive strength.</li> </ol>	1.1 RELATED DOCUMENTS A. Drawings and general
	3.3 ERECTION	Division 01 Specification 1.2 SUMMARY
	<ul> <li>A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.</li> <li>B. Baseplates, Bearing Plates, and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-</li> </ul>	A. Section Includes:
eel structural bolts.	reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates. 1. Set plates for structural members on wedges, shims, or setting nuts as required.	2. Joist accessories.
shed carbon steel;	<ol> <li>Weld plate washers to top of baseplate.</li> </ol>	1.3 DEFINITIONS A. SJI's "Specifications": Ste
	<ol> <li>Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.</li> </ol>	Joists and Joist Girders."1.4ACTION SUBMITTALS
	<ol> <li>Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation</li> </ol>	<ul><li>A. Product Data: For each ty</li><li>B. Shop Drawings:</li></ul>
	instructions for shrinkage-resistant grouts.	1. Include layout, des 2. Include joining and
	and Bridges."	locations and detai 3. Indicate locations a
	D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that are in permanent contact with members. Deform personal edited members to compensate for discrepancies in clevelience and elignment.	1.5 QUALITY ASSURANCE
er complying with	<ol> <li>Level and plumb individual members of structure.</li> </ol>	standard specifications and welding Qualifications
	<ol> <li>Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.</li> </ol>	"Structural Welding Code
metallic aggregate n and a 30-minute	E. Splice members only where indicated.	A. Deliver, store, and handle
	<ul> <li>F. Do not use thermal cutting during erection.</li> <li>G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to</li> </ul>	B. Protect joists from corrosi 1.7 SEQUENCING
ording to AISC 303,	admit bolts.	A. Deliver steel bearing plate PART 2 - PRODUCTS
	automatic end welding of headed-stud shear connectors according to AWS D1.1/D1.1M and manufacturer's written instructions.	2.1 LONG-SPAN STEEL JOI A Manufacture steel joists
М.	3.4 FIELD CONNECTIONS	Longspan Steel Joists, D of joist type and end and
	A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.	1. Joist Type: LH-seri
r connectors. Use and manufacturer's	1. Joint Type: Snug tightened.	C. Equip bearing ends of jo
pass through steel	B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.	2.2 PRIMERS
	<ol> <li>Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.</li> </ol>	A. Primer: SSPC-Paint 15, SSPC-Paint 15.
es or enlarge holes	2. Remove backing bars or runoff tabs, back gouge, and grind steel smooth.	2.3 JOIST ACCESSORIES A. Bridging: Provide bridging
teel surfaces.	<ol> <li>Assemble and weld built-up sections by methods that maintain true alignment of axes without exceeding tolerances in AISC 303, "Code of Standard Practice for Steel Buildings and Bridges," for mill material.</li> </ol>	type required by SJI's "S bridging if required for sta
	<ul> <li>3.5 PREFABRICATED BUILDING COLUMNS</li> <li>A. Install prefabricated building columns to comply with AISC 360 manufacturer's written recommendations, and</li> </ul>	<ul> <li>B. Fabricate steel bearing p indicated.</li> </ul>
or Structural Joints	requirements of testing and inspecting agency that apply to the fire-resistance rating indicated.	C. High-Strength Bolts, Nuts ASTM A 563 (ASTM A 56
velding procedure	A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.	steel washers. D. Welding Electrodes: Com
without exceeding	B. Bolted Connections: Inspect bolted connections according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."	Furnish miscellaneous ac
2	C. Welded Connections: Visually inspect field welds according to AWS D1.1/D1.1M.	joist assembly.
- 2	STRUCTURAL STEEL FRAMING 051200 - 4	STEEL JOIST FRAMING

to visual inspection, test and inspect field welds according to AWS D1.1/D1.1M and the pection procedures, at testing agency's option: Penetrant Inspection: ASTM E 165. etic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or of incomplete fusion or penetration are not accepted.

onic Inspection: ASTM E 164.

graphic Inspection: ASTM E 94.

al inspection, test and inspect field-welded shear connectors according to requirements in for stud welding and as follows: d tests if visual inspections reveal either a less-than-continuous 360-degree flash or welding

y shear connector. ts according to requirements in AWS D1.1/D1.1M on additional shear connectors if weld urs on shear connectors already tested.

OTECTION

es: Clean areas where galvanizing is damaged or missing and repair galvanizing to comply 780M. Immediately after erection, clean exposed areas where primer is damaged or missing and

e material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted

epare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning. Cleaning and touchup painting are specified in Section 099113 "Exterior Painting" and terior Painting."

Cleaning and touchup priming are specified in Section 099600 "High-Performance Coatings."

MING

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OIST FRAMING

**1ENTS** 

neral provisions of the Contract, including General and Supplementary Conditions and cation Sections, apply to this Section.

-series long-span steel joists.

s": Steel Joist Institute's "Standard Specifications, Load Tables and Weight Tables for Steel ders."

each type of joist, accessory, and product.

ut, designation, number, type, location, and spacing of joists.

ng and anchorage details, bracing, bridging, and joist accessories; splice and connection details; and attachments to other construction. tions and details of bearing plates to be embedded in other construction.

ANCE fications: A manufacturer certified by SJI to manufacture joists complying with applicable ions and load tables in SJI's "Specifications". tions: Qualify field-welding procedures and personnel according to AWS D1.1/D1.1M,

Code - Steel."

AGE, AND HANDLING handle joists as recommended in SJI's "Specifications".

corrosion, deformation, and other damage during delivery, storage, and handling.

g plates to be built into masonry construction.

EL JOISTS

oists according to "Standard Specifications for Longspan Steel Joists, LH-Series and Deep ists, DLH-Series" in SJI's "Specifications," with steel-angle top- and bottom-chord members; d and top-chord arrangements [as follows:] [as indicated.]

H-series steel joists. steel joists according to SJI's "Specifications."

s of joists with manufacturer's standard beveled ends or sloped shoes if joist slope exceeds ies (1:48).

t 15, or manufacturer's standard shop primer complying with performance requirements in

ridging anchors and number of rows of horizontal or diagonal bridging of material, size, and JI's "Specifications for type of joist, chord size, spacing, and span. Furnish additional erection for stability. ring plates from ASTM A 36/A 36M steel with integral anchorages of sizes and thicknesses

, Nuts, and Washers: ASTM A 325 (ASTM A 325M), Type 1, heavy hex steel structural bolts; M A 563M) heavy hex carbon-steel nuts; and ASTM F 436 (ASTM F 436M) hardened carbon-

: Comply with AWS standards

ous accessories including splice plates and bolts required by joist manufacturer to complete

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## 2.4 CLEANING AND SHOP PAINTING

A. Clean and remove loose scale, heavy rust, and other foreign materials from fabricated joists aB. Do not prime paint joists and accessories[ to receive sprayed fire-resistive materials].

C. Apply one coat of shop primer to joists and joist accessories to be primed to provide a continuous than 1 mil (0.025 mm) thick.

# PART 3 - EXECUTION3.1EXAMINATION

A. Examine supporting substrates, embedded bearing plates, and abutting structural framing frequirements for installation tolerances and other conditions affecting performance.
 B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Do not install joists until supporting construction is in place and secured.

B. Install joists and accessories plumb, square, and true to line; securely fasten to support according to SJI's "Specifications," joist manufacturer's written recommendations, and reconstruction.

- 1. Before installation, splice joists delivered to Project site in more than one piece.
- Space, adjust, and align joists accurately in location before permanently fastening.
   Install temporary bracing and erection bridging, connections, and anchors to
- Install temporary bracing and erection bridging, connections, and anchors to ensu stabilized during construction.
- 4. Delay rigidly connecting bottom-chord extensions to columns or supports until dead load
   C. Field weld joists to supporting steel bearing plates. Coordinate welding sequence and procedulation
- of joists. Comply with AWS requirements and procedures for welding, appearance and qua methods used in correcting welding work.
- D. Bolt joists to supporting steel framework using high-strength structural bolts. Comply with Re Structural Connection's "Specification for Structural Joints Using ASTM A 325 or ASTM A 49 strength structural bolt installation and tightening requirements.
- E. Install and connect bridging concurrently with joist erection, before construction loads are appropriate of bridging lines at top and bottom chords if terminating at walls or beams.
   3.3 FIELD QUALITY CONTROL
- A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to and bolted connections and to perform field tests and inspections and prepare test and inspect
- B. Visually inspect field welds according to AWS D1.1/D1.1M.
  1. In addition to visual inspection, test field welds according to AWS D1.1/D1.1M procedures, as applicable:
  - a. Liquid Penetrant Inspection: ASTM E 165.
  - b. Magnetic Particle Inspection: ASTM E 709.
  - c. Ultrasonic Testing: ASTM E 164.
  - d. Radiographic Testing: ASTM E 104.
- C. Visually inspect bolted connections.
- D. Correct deficiencies in Work that test and inspection reports have indicated are not in complia requirements.
- E. Perform additional testing to determine compliance of corrected Work with specified requirements
   3.4 PROTECTION
- A. Repair damaged galvanized coatings on galvanized items with galvanized repair paint accord and manufacturer's written instructions.
- B. Touchup Painting: After installation, promptly clean, prepare, and prime or reprime field conner and abraded surfaces of prime-painted joists, bearing plates, abutting structural steel, and acc
  1. Clean and prepare surfaces by hand-tool cleaning according to SSPC-SP 2, or por according to SSPC-SP 3.
- Apply a compatible primer of same type as primer used on adjacent surfaces.

 Provide final protection and maintain conditions, in a manner acceptable to manufacturer ensure that joists and accessories are without damage or deterioration at time of Substantial 0
 END OF SECTION 052100

STEEL JOIST FRAMING

052100 -

## SECTION 053100 - STEEL DECKING PART 1 - GENERAL 1.1 RELATED DOCUMENTS A. Drawings and general provisions of the Contract, including General and Supplementary Cond 01 Specification Sections, apply to this Section. 1.2 <u>SUMMARY</u> A. Section Includes: Acoustical roof deck. 1 1.3 ACTION SUBMITTALS A. Product Data: For each type of deck, accessory, and product indicated. B. Shop Drawings: Include layout and types of deck panels, anchorage details, reinforcing channels 1 openings, special jointing, accessories, and attachments to other construction. INFORMATIONAL SUBMITTALS 1.4 Welding certificates. B. Product Certificates: For each type of steel deck. C. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified indicating that each of the following complies with requirements: Power-actuated mechanical fasteners. 1. 2. Acoustical roof deck. 1.5 QUALITY ASSURANCE A. FM Global Listing: Provide steel roof deck evaluated by FM Global and listed in its "Approv. Materials" for Class 1 fire rating and Class 1-90 windstorm ratings. 1.6 DELIVERY, STORAGE, AND HANDLING A. Protect steel deck from corrosion, deformation, and other damage during delivery, storage, an B. Stack steel deck on platforms or pallets and slope to provide drainage. Protect with a water ventilate to avoid condensation. 1. Protect and ventilate acoustical cellular roof deck with factory-installed insulation to free of moisture. PART 2 - PRODUCTS 2.1 PERFORMANCE REQUIREMENTS A. AISI Specifications: Comply with calculated structural characteristics of steel deck accordin American Specification for the Design of Cold-Formed Steel Structural Members." B. Fire-Resistance Ratings: Comply with ASTM E 119; testing by a qualified testing agency. Ide appropriate markings of applicable testing agency. 1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings testing agency. 2.2 ACOUSTICAL ROOF DECK A. Manufacturers Nucor Vulcraft 1. New Millennium Building Systems 2. 3. D-Mac B. Acoustical Roof Deck: Fabricate panels to comply with "SDI Specifications and Commentation Deck," in SDI Publication No. 31, and with the following: 1. Prime-Painted Steel Sheet: ASTM A 1008/A 1008M, Structural Steel (SS), Grade 5 primed with manufacturer's standard baked-on, rust-inhibitive primer. Deck Profile: Type N 3. Profile Depth: 3" deep rib deck or as indicated on the Drawings. 4. Design Uncoated-Steel Thickness: As indicated on the Drawings. Span Condition: Triple span or more. 5. 6. Side Laps: Overlapped Acoustical Perforations: Deck units with manufacturer's standard perforated vertical well 7. 8. Sound-Absorbing Insulation: Manufacturer's standard premolded roll or strip of glass or 9. Acoustical Performance: NRC 0.65 tested according to ASTM C 423.

STEEL DECKING

and accessories.	<ul> <li>2.3 <u>ACCESSORIES</u></li> <li>A. General: Provide manufacturer's standard accessory materials for deck that comply with requirements indicated.</li> <li>B. Mechanical Eastenars: Corresion-resistant, low-velocity, power actuated or pneumatically driven carbon-steel</li> </ul>	<ol> <li>Thermal Resistance: As indicated on drawings.</li> <li>Facing:</li> </ol>		
nuous, dry paint film	<ul> <li>B. Mechanical Fasteners: Corrosion-resistant, low-velocity, power-actuated of phechanically driven carbon-steel fasteners; or self-drilling, self-threading screws.</li> <li>C. Side-Lap Fasteners: Corrosion-resistant, hexagonal washer head; self-drilling, carbon-steel screws, ¼" minimum diameter.</li> </ul>	<ul> <li>a. Polymer-bonded glass-fiber mat facer on both faces.</li> <li>9. Minimum Compressive Strength: 20 psi.</li> <li>10. Board Edges: Square.</li> </ul>		
for compliance with	<ul> <li>D. Flexible Closure Strips: Vulcanized, closed-cell, synthetic rubber.</li> <li>E. Miscellaneous Sheet Metal Deck Accessories: Steel sheet, minimum yield strength of 33,000 psi (230 MPa), not</li> </ul>	<ul> <li>11. Water Absorption:</li> <li>a. Comply with ASTM D2842.</li> <li>b. Maximum: Less than 1.5.</li> </ul>		
	indicated or required for application. F. Repair Paint: Manufacturer's standard rust-inhibitive primer of same color as primer.	<ul><li>2.4 ACCESSORIES</li><li>A. Adhesive: Type as recommended by insulation manufacturer for application.</li></ul>		
porting construction	PART 3 - EXECUTION 3.1 EXAMINATION	<ul> <li>B. Sheet Vapor Retarder: Type as recommended by insulation manufacturer for application.</li> <li>C. Tape:</li> </ul>		AND Y TO Y TO N TO ONLY AAL N TA SSLY AS A A A A A A A A A A A A A A A A A A
equirements in this	<ul> <li>A. Examine supporting frame and field conditions for compliance with requirements for installation tolerances and other conditions affecting performance.</li> <li>B. Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ul>	<ol> <li>Description: Type as recommended by insulation manufacturer.</li> <li>Type: Self-adhering.</li> <li>Insulation Adhesive:</li> </ol>		APL: CONTRESS CONTRESCONTRESS CONTRESS CONTRESS CONTRESS CONTRESS CONTRESS CONTRESS CONTRESS CONTRESS CONTREST CONTRESS CONTRESS CONTRESS CONTRESS CONTREST CONTRESS CONTREST
sure that joists are	<ul> <li>3.2 <u>INSTALLATION, GENERAL</u></li> <li>A. Install deck panels and accessories according to applicable specifications and commentary in SDI Publication</li> </ul>	<ol> <li>Description: Type as recommended by insulation manufacturer for a fully adhered system.</li> <li>Capable of securely and rigidly fastening insulation in place.</li> </ol>		E PROFESS E PROFESS IS NOTURE IEV ARE AFIF FOR CIVIL PROFESSING RENIL ENGINE RENUESSING RENIL ENGINE ALL C CURING ALL C FECIFICATIC REPORTS REPORTS NY PART O PROLECT T PROLECT
ads are applied.	<ul> <li>No. 31, manufacturer's written instructions, and requirements in this Section.</li> <li>B. Install temporary shoring before placing deck panels if required to meet deflection limitations.</li> </ul>	<ul> <li>E. Protective Boards:</li> <li>1. Material: Cementitious Wood fiberboard.</li> </ul>	-	
lure with placement ality of welds, and	<ul> <li>D. Place deck panels on supporting frame and adjust to final position with ends accurately aligned and bearing on supporting frame before being permanently fastened. Do not stretch or contract side-lap interlocks.</li> </ul>	2. No asbestos. PART 3 - EXECUTION 3.1 PREPARATION		
esearch Council on 490 Bolts" for high-	<ul> <li>E. Place deck panels flat and square and fasten to supporting frame without warp or deflection.</li> <li>F. Cut and neatly fit deck panels and accessories around openings and other work projecting through or adjacent</li> </ul>	<ul> <li>A. Clean substrates of substances that are harmful to insulation or adhesive, including removing projections capable of puncturing insulation or vapor retarders, or that interfere with insulation attachment.</li> </ul>		
oplied. Anchor ends	to deck. G. Provide additional reinforcement and closure pieces at openings as required for strength, continuity of deck, and support of other work.	<ul> <li>3.2 INSTALLATION</li> <li>A. Comply with insulation manufacturer's written instructions applicable to products and applications.</li> <li>B. Install insulation that is undamaged, dry, and upsoled and that has not been left exposed to ice, rain, or snow at</li> </ul>		S NO
inspect field welds	<ul> <li>H. Locate mechanical fasteners and install according to deck manufacturer's written instructions.</li> <li>3.3 <u>ROOF-DECK INSTALLATION</u></li> </ul>	<ul> <li>any time.</li> <li>C. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with</li> </ul>		MARH
and the following	<ul> <li>A. Fasten roof-deck panels to steel supporting members by mechanical fasteners indicated on the Drawings.</li> <li>B. Side-Lap and Perimeter Edge Fastening: Fasten side laps and perimeter edges of panels between supports, as indicated on the Drawings.</li> </ul>	<ul> <li>D. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths.</li> <li>Apply multiple layers required to make up total thickness or to achieve R-value. Stagger all joints.</li> </ul>		L DESO
	<ul> <li>C. End Bearing: Install deck ends over supporting frame with a minimum end bearing of 1-1/2 inches (38 mm).</li> <li>D. Sound-Absorbing Insulation: Installation into topside ribs of deck per the deck manufacturer's written</li> </ul>	END OF SECTION 072113		
	instructions. 3.4 <u>FIELD QUALITY CONTROL</u> A Testing Agency Ourses will appear a gualified testing agency to perform tests and inspections.			E/REV
iance with specified	<ul> <li>A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.</li> <li>B. Field welds will be subject to inspection.</li> <li>C. Testing agency will report inspection results promptly and in writing to Contractor and Engineer.</li> </ul>		-	
ients.	<ul> <li>D. Remove and replace work that does not comply with specified requirements.</li> <li>E. Additional inspecting, at Contractor's expense, will be performed to determine compliance of corrected work with</li> </ul>			DATE
ling to ASTM A 780	specified requirements. 3.5 <u>PROTECTION</u> A Galvanizing Repairs: Prepare and repair damaged galvanized coatings on both surfaces of deck with galvanized		-	
nections, rust spots, cessories.	<ul> <li>repair paint according to ASTM A 780 and manufacturer's written instructions.</li> <li>B. Repair Painting: Wire brush and clean rust spots, welds, and abraded areas on surfaces of prime-painted deck</li> </ul>			
Jower-toor cleaning	<ul> <li>immediately after installation, and apply repair paint.</li> <li>Apply repair paint, of same color as adjacent shop-primed deck, to bottom surfaces of deck exposed to view.</li> </ul>			000 EYING 143 11225
r and Installer, that Completion.	C. Provide final protection and maintain conditions to ensure that steel deck is without damage or deterioration at time of Substantial Completion.			D SURV D SURV N. 631 RING: 00
	END OF SECTION 053100			GINEER BLVC BLVC BLVC BLVC BLVC BLVC BLVC BLVC
- 2	STEEL DECKING 053100 - 2	072113 - 2		AC EN( JCTURA S, MIS S, MIS 544-22 Stl.cor Stl.cor CTURAL CTURAL CTURAL
				ONTEN 'IL / STR '25 SU 25 SU 25 SU 26 SI 21 / STR 21 / STR 11 / STRU 11 / STRU
	PART 1 - GENERAL 1.1 SUMMARY			
ditions and Division	<ul><li>A. Section Includes:</li><li>1. Rigid and semi-rigid board insulation.</li></ul>			
	<ol> <li>Integral vapor retarder.</li> <li>SUBMITTALS</li> <li>Product Data: Submit manufacturer information on product characteristics, performance criteria, limitations</li> </ol>			& J ENG
	<ul> <li>adhesives.</li> <li>B. Manufacturer's Certificate: Products meet or exceed specified requirements.</li> </ul>		Γ	
s, pans, cut deck	<ul> <li>Manufacturer Instructions: Submit detailed instructions on installation requirements, including storage and handling procedures.</li> <li>D Qualifications Statement:</li> </ul>		l l	MECKE
	<ol> <li>Qualifications for manufacturer.</li> <li>QUALITY ASSURANCE</li> </ol>			A S A D B C 8
ied testing agency,	<ul> <li>A. Surface Burning Characteristics of Insulation Installed in Concealed Locations:</li> <li>1. Foam Plastic Insulation: Maximum 75/450 flame-spread/smoke-developed index when tested according</li> </ul>			063
	<ol> <li>Other Insulation: Maximum 25/450 flame-spread/smoke-developed index when tested according to ASTM E84.</li> </ol>			.: 2200
val Guide, Building	<ul> <li>B. Surface Burning Characteristics of Insulation Installed in Exposed Locations:</li> <li>1. Maximum 25/450 flame-spread/smoke-developed index when tested according to ASTM E84.</li> </ul>			
nd handling	<ul> <li>D. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three (3) years' experience.</li> </ul>			IB(
proof covering and	<ul> <li>1.4 DELIVERY, STORAGE, AND HANDLING</li> <li>A. Store according to manufacturer instructions.</li> </ul>			
maintain insulation	<ul> <li>B. Protection:</li> <li>1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.</li> </ul>			
ng to AISI's "North	<ol> <li>Remove insulation that becomes wet or damp.</li> <li>Provide additional protection according to manufacturer instructions.</li> </ol>			
entify products with	<ul> <li>AMBIENT CONDITIONS</li> <li>A. Minimum Conditions: Do not install adhesives when temperature or weather conditions are detrimental to successful installation.</li> </ul>			
of another qualified	PART 2 - PRODUCTS 2.1 SYSTEM DESCRIPTION			INE 337
	<ul> <li>A. Two layers of 2.7" Polyisosyanurate</li> <li>1. Staggered joints.</li> <li>2. Both layers fully adhered as machanical factories</li> </ul>			IS 631. Same
	<ol> <li>Both layers fully adhered, no mechanical fasteners</li> <li>R-value 30 (minimum)</li> <li>BOARD INSULATION</li> </ol>			AL R AL R AON AON AON
tary for Steel Roof	<ul> <li>A. <u>Manufacturers</u>:</li> <li>1. Firestone, Owens Corning.</li> </ul>			CAT CAT UR/ UR/ IS, N
50 minimum, shop	2. Substitutions: Permitted.     2.3 MATERIALS     A Polyiscovapurate Insulation:			CIFIC UCT 9 BE -OU
	<ol> <li>Firestone, ISO 95 + GL Insulation, flat and tapered.</li> <li>Description: Rigid board.</li> </ol>			SPE B <b>B</b> STR 966(
ha	<ol> <li>Comply with ASTM C1289, Type 11, Class 1.</li> <li>Board Density: 2 POF pcf.</li> </ol>			Neighbors
r mineral fiber.	<ol> <li>Manufacturers standard size.</li> <li>As indicated on drawings.</li> </ol>			
- 1	072113 - 1			

## SECTION 075323 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING PART 1 - GENERAL 1.1 RELATED DOCUMENTS Drawings and general provisions of the Contract, including General and Supplement A. Division 01 Specification Sections, apply to this Section. 1.2 SUMMARY A. Section Includes: 1. Adhered ethylene-propylene-diene-monomer (EPDM) roofing system. 2. Vapor retarder. Roof insulation. B. Section includes the installation of insulation strips in ribs of roof deck. Insulation strips Section 053100 "Steel Decking." DEFINITIONS 1.3 A. Roofing Terminology: Definitions in ASTM D 1079 and glossary of NRCA's "The Waterproofing Manual" apply to work of this Section. 1.4 ACTION SUBMITTALS A. Product Data: For each type of product. B. Samples for Verification: For the following products: 1. Sheet roofing, of color required. 1.5 INFORMATIONAL SUBMITTALS A. Qualification Data: For Installer and manufacturer. В. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing sys requirements specified in "Performance Requirements" Article. C. Product Test Reports: For components of roofing system, tests performed by manufacture qualified testing agency. D. Research/Evaluation Reports: For components of roofing system, from ICC-ES. E. Field quality-control reports. F. Sample Warranties: For manufacturer's special warranties. **CLOSEOUT SUBMITTALS** 1.6 A. Maintenance Data: For roofing system to include in maintenance manuals. 1.7 QUALITY ASSURANCE A. Manufacturer Qualifications: A qualified manufacturer that is UL listed and FM Global system identical to that used for this Project. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing s В. to install manufacturer's product and that is eligible to receive manufacturer's warranty. 1. Installer must have a minimum of three (3) years experience installing the specified n 2. Job Site Superintendent must have a minimum of five (5) years of experience in roofin 1.8 DELIVERY, STORAGE, AND HANDLING A. Deliver roofing materials to Project site in original containers with seals unbroken manufacturer's name, product brand name and type, date of manufacture, approval or listin and directions for storing and mixing with other components. B. Store liquid materials in their original undamaged containers in a clean, dry, protected loc temperature range required by roofing system manufacturer. Protect stored liquid material f 1. Discard and legally dispose of liquid material that cannot be applied within its stated a C. Protect roof insulation materials from physical damage and from deterioration by sunlight, other sources. Store in a dry location. Comply with insulation manufacturer's written instru storing, and protecting during installation. D. Handle and store roofing materials, and place equipment in a manner to avoid permanent de ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING 07532 1.9 FIELD CONDITIONS A. Weather Limitations: Proceed with installation only when existing and forecasted weather roofing system to be installed according to manufacturer's written instructions and warranty re 1.10 WARRANTY A. Manufacturer agrees to repair or replace components of roofing system that fail in materia within specified warranty period. 1. Special warranty includes membrane roofing, base flashings, and other components of Warranty Period: 20 years from date of Substantial Completion. 2. B. Submit roofing Installer's warranty, signed by Installer, covering Work of this Section, includi of roofing system such as membrane roofing, base flashing, roof insulation, fasteners, cover boards, vapor retarders, roof pavers, and walkway products, for the following warranty period: 1. Warranty Period: Five years from date of Substantial Completion. PART 2 - PRODUCTS 2.1 <u>MANUFACTURERS</u> A. Source Limitations: Obtain components including roof insulation, fasteners, for roof manufacturer approved by membrane roofing manufacturer. 2.2 <u>PERFORMANCE REQUIREMENTS</u> A. General Performance: Installed roofing and base flashings shall withstand specified uplift pr induced movement, and exposure to weather without failure due to defective manufa installation, or other defects in construction. Roofing and base flashings shall remain watertigh 1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure whe to ASTM G 152, ASTM G 154, or ASTM G 155. Impact Resistance: Roofing system shall resist impact damage when tested according 2. or ASTM D 4272. B. Material Compatibility: Roofing materials shall be compatible with one another and adjace conditions of service and application required, as demonstrated by roofing manufacturer bas field experience. C. FM Global Listing: Roofing, base flashings, and component materials shall comply with r Global 4450 or FM Global 4470 as part of a roofing system, and shall be listed in FM Glob Class 1 or noncombustible construction, as applicable. Identify materials with FM Global mark D. Solar Reflectance Index: Not less than 78 when calculated according to ASTM E 1980, identical products by a qualified testing agency. E. Energy Performance: Roofing system shall have an initial solar reflectance of not less emissivity of not less than 0.75 when tested according to CRRC-1. F. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class A; for application and roof slopes G. Fire-Resistance Ratings: Comply with fire-resistance-rated assembly designs indicated. Iden appropriate markings of applicable testing agency. 2.3 EPDM ROOFING A. EPDM: ASTM D 4637, Type I, nonreinforced, uniform, flexible EPDM sheet. 1. Thickness: 60 mils, nominal. 2. Exposed Face Color: Black. B. Manufacturers 1. Firestonte Building Products 2. Carlisle SynTec Inc. 3. Johns Manville International 2.4 AUXILIARY ROOFING MATERIALS A. General: Auxiliary materials recommended by roofing system manufacturer for intended with roofing. 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdic 2. Adhesives and sealants that are not on the exterior side of weather barrier shall comply limits for VOC content:

ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

	a. Plastic Foam Adhesives: 50 g/L. b. Gypsum Board and Panel Adhesives: 50 g/l	3.5 INSULATION INSTALLATION A Coordinate installing roofing system components, so insulation is not exposed to precipitation or left exposed at	
anlamentary. Conditions and	c. Multipurpose Construction Adhesives: 70 g/L.	the end of the workday.	
pplementary Conditions and	<ul> <li>d. Fiberglass Adhesives: 80 g/L.</li> <li>e. Single-Ply Roof Membrane Adhesives: 250 g/L.</li> </ul>	<ul><li>Comply with rooting system and insulation manufacturer's written instructions for installing root insulation.</li><li>C. Install tapered insulation under area of roofing to conform to slopes indicated.</li></ul>	
	f. Single-Ply Roof Membrane Sealants: 450 g/L.	D. Install insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2.7 inches (68 mm) or greater, install two or more layers with joints of each succeeding layer staggered from joints	
	<ul> <li>h. Sealant Primers for Nonporous Substrates: 250 g/L.</li> </ul>	of previous layer a minimum of 6 inches (150 mm) in each direction. 1. Where installing composite and noncomposite insulation in two or more layers, install noncomposite	
	<ul> <li>i. Sealant Primers for Porous Substrates: 775 g/L.</li> <li>i. Other Adhesives and Sealants: 250 g/L.</li> </ul>	board insulation for bottom layer and intermediate layers, if applicable, and install composite board insulation for top layer.	
on strips are furnished under	<ol> <li>Adhesives and sealants that are not on the exterior side of weather barrier shall comply with the testing and product requirements of the California Department of Public Health's (formerly, the California)</li> </ol>	E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.	EAL AND NLY TO WHICH UD ONLY UD ONLY URAL LAND ABLE. TH ABLE. TH ANS, IMATES,
"The NRCA Roofing and	Department of Health Services') "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers "	F. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation	ICONAL S APPLY O AENT TO AENT TO AENT TO AENT TO AND NG AND NG AN
The NIXOA Rooning and	<ul> <li>B. Sheet Flashing: 60-mil- (1.5-mm-) thick EPDM, partially cured or cured, according to application.</li> </ul>	1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.	PROFESS NATURE S DOCUN S DOCUN S DOCUN A CALLO GINEERI GINEERI GINEERI CIFICATIO COLOTI DOCUT DOCUN DOCUM DOCUM COLOTI CO
	C. Protection Sheet: Epichlorohydrin or neoprene nonreinforced flexible sheet, 55- to 60-mil- (1.4- to 1.5-mm-) thick, recommended by EPDM manufacturer for resistance to hydrocarbons, non-aromatic solvents, grease, and	<ul> <li>G. Adhered Insulation: Install each layer of insulation and adhere to substrate as follows:</li> <li>1. Prime surface of concrete deck with asphalt primer at rate of 3/4 gal./100 sg. ft. (0.3 L/sg. m), and allow</li> </ul>	
	oil. D. Bonding Adhesive: Manufacturer's standard.	primer to dry.	
	E. Modified Asphaltic Fabric-Backed Membrane Adhesive: Roofing system manufacturer's standard modified	<ol> <li>Set each layer of insulation in a solid mopping of not rooting asphalt, applied within plus or minus 25 deg F (14 deg C) of equiviscous temperature.</li> </ol>	
ofing system complies with	roofing.	<ol> <li>Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.</li> </ol>	
ufacturer and withoesed burg	F. Water-Based, Fabric-Backed Membrane Adhesive: Roofing system manufacturer's standard water-based, cold- applied adhesive formulated for compatibility and use with fabric-backed membrane roofing.	<ol> <li>Set each layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.</li> </ol>	
utacturer and witnessed by a	G. Low-Rise, Urethane, Fabric-Backed Membrane Adhesive: Roof system manufacturer's standard spray-applied, low-rise, two-component urethane adhesive formulated for compatibility and use with fabric-backed membrane	<ul> <li>H. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type</li> </ul>	TION
	roofing. H. Seaming Material: Manufacturer's standard, synthetic-rubber polymer primer and 3-inch- (75-mm-) wide	<ol> <li>Fasten insulation according to requirements in FM Global's "RoofNav" for specified Windstorm</li> </ol>	CRIP
	minimum, butyl splice tape with release film.	<ol> <li>Resistance Classification.</li> <li>Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.</li> </ol>	DESC
	J. Water Cutoff Mastic: Manufacturer's standard butyl mastic sealant.	I. Mechanically Fastened and Adhered Insulation: Install first layer of insulation to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.	
Global approved for matter	K. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.	1. Fasten first layer of insulation according to requirements in FM Global's "RoofNav" for specified Windstorm Resistance Classification	
Giobal approved for rooting	L. Metal Battens: Manufacturer's standard, aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch thick (25 mm wide by 1.3 mm thick) prepunched	<ol> <li>Fasten first layer of insulation to resist uplift pressure at corners, perimeter, and field of roof.</li> </ol>	
roofing system manufacturer nty.	M. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance	<ol> <li>Set each subsequent layer of insulation in a solid mopping of hot roofing asphalt, applied within plus or minus 25 deg F (14 deg C) of equiviscous temperature.</li> </ol>	
ecified roof system.	manufacturer.	<ol> <li>Set each subsequent layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.</li> </ol>	
e in rooning.	N. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, molded pipe boot flashings, preformed inside and outside corner sheet flashings, reinforced EPDM securement strips, T-joint	<ol> <li>Set each subsequent layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly</li> </ol>	DA
unbroken and labeled with al or listing agency markings,	<ul> <li>covers, in-seam sealants, termination reglets, cover strips, and other accessories.</li> <li>Provide white flashing accessories for white EPDM membrane roofing.</li> </ul>	J. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered	
ected location and within the	2.5 <u>ROOF INSULATION</u>	between rows. Offset joints of insulation below a minimum of 6 inches (150 mm) in each direction. Loosely butt cover boards together[ and fasten to roof deck].	
naterial from direct sunlight.	A. General: Preformed roof insulation boards manufactured or approved by EPDM roofing manufacturer, selected from manufacturer's standard sizes suitable for application, of thicknesses indicated and that produce FM	<ol> <li>Fasten cover boards according to requirements in FM Global's "RoofNav" for specified Windstorm Resistance Classification.</li> </ol>	
unlight, moisture, soiling, and	Global-approved roof insulation. B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces.	2. Fasten cover boards to resist uplift pressure at corners, perimeter, and field of roof.	20UF EYING 143 01225
tten instructions for handling,	C. Cellulosic-Fiber Board Insulation: ASTM C 208, Type II, Grade 2, fibrous-felted, rigid insulation boards of wood fiber or other cellulosic-fiber and water-resistant binders asphalt impregnated chemically treated for	<ul> <li>A. Adhere roofing over area to receive roofing according to membrane roofing system manufacturer's written</li> </ul>	63: 0 NG G
nanent deflection of deck.	deterioration.	instructions. Unroll membrane roofing and allow to relax before installing. B Start installation of roofing in presence of roofing system manufacturer's technical personnel	EERIN AND V.V.D.
			VGINI VAL/I N BL ISSC 2200 2200 LENG 00028
075323 - 1	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING 075323 - 3	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING 075323 - 5	ACEN JCTUF S, M 544.5 544.5 544.5 544.5 544.5 51L co 51URA
			VTEN 5 SU -OUI -OUI -OUI -OUI -STRU
			FRON CIVIL ST. L PHON WO CI CIVIL/
			DC DNI
weather conditions permit	<ul> <li>2.6 <u>INSULATION ACCESSORIES</u></li> <li>A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and</li> </ul>	C. Accurately align roofing, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps,	
arranty requirements.	compatibility with roofing. B Easteners: Easteny-coated steel fasteners and metal or plastic plates complying with corresion-resistance	<ul> <li>D. Bonding Adhesive: Apply to substrate and underside of roofing at rate required by manufacturer, and allow to partially dry before installing roofing. Do not apply to aplice area of roofing.</li> </ul>	
n materials or workmanship	provisions in FM Global 4470, designed for fastening roof insulation and cover boards to substrate, and acceptable to roofing system manufacturer.	<ul> <li>E. Hot Roofing Asphalt: Apply a solid mopping of hot roofing asphalt to substrate at temperature and rate required</li> </ul>	
onents of roofing system.	C. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to	by manufacturer, and install fabric-backed roofing. Do not apply to splice area of roofing. F. Fabric-Backed Membrane Adhesive: Apply to substrate at rate required by manufacturer, and install fabric-	
n including all components	substrate or to another insulation layer as follows: 1. Modified asphaltic, asbestos-free, cold-applied adhesive.	backed roofing.	O'Y EN
ers, cover boards, substrate	2. Bead-applied, low-rise, one-component or multicomponent urethane adhesive.	<ul> <li>Hraddition to adheming, mechanically laster rooming securely at terminations, penetrations, and permeters.</li> <li>H. Apply roofing with side laps shingled with slope of roof deck where possible.</li> </ul>	
y penou.	<ul> <li>D. Cover Board: ASTM C 208, Type II, Grade 2, cellulosic-fiber insulation board, 1/2 inch (13 mm) thick.</li> </ul>	<ol> <li>Adhesive Seam Installation: Clean both faces of splice areas, apply splicing cement, and firmly roll side and end laps of overlapping roofing according to manufacturer's written instructions to ensure a watertight seam</li> </ol>	N: XED:
	2.7 <u>ASPHALT MATERIALS</u>	installation. Apply lap sealant and seal exposed edges of roofing terminations.	ATE: 8/20 MF CM SAW SAW SAW
for roofing system from	B. Asphalt Primer: ASTM D 41/D 41M.	manufacturer.	
	PART 3 - EXECUTION 3.1 EXAMINATION	and the search installation. Clean and prime both races of splice areas, apply splice tape, and firmly roll side and end laps of overlapping roofing according to manufacturer's written instructions to ensure a watertight seam installation. Apply lap acalent and even a data of reafine terminations.	
d uplift pressures, thermally manufacture, fabrication	A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other	<ul><li>K. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.</li></ul>	)063
watertight.	conditions affecting performance of the Work: 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies	L. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal membrane roofing in place with clamping ring.	<sup>220</sup> N
sure when tested according	<ul><li>are securely clamped in place.</li><li>Verify that wood blocking curbs and nailers are securely anchored to roof deck at penetrations and</li></ul>	M. Adhere protection sheet over membrane roofing at locations indicated.	
according to ASTM D 3746	terminations and that nailers match thicknesses of insulation.	<ul> <li>BASE FLASHING INSTALLATION</li> <li>A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing</li> </ul>	
d adjacent materials under cturer based on testing and	<ol> <li>verify that surface plane flatness and fastening of steel roof deck complies with requirements in Section 053100 "Steel Decking."</li> </ol>	system manufacturer's written instructions.	
ly with requirements in EM	<ol> <li>Verify that minimum concrete drying period recommended by roofing system manufacturer has passed.</li> <li>Verify that concrete substrate is visibly dry and free of moisture. Test for capillary moisture by plastic</li> </ol>	Do not apply to seam area of flashing.	
FM Global's "RoofNav" for	sheet method according to ASTM D 4263.	<ul><li>C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.</li><li>D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a</li></ul>	
I E 1980, based on testing	<ul> <li>verify that concrete-curing compounds that will impair adhesion of rooting components to root deck have been removed.</li> </ul>	watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.	<b>⊔</b> ,≊
not less than 0.70and an	<ul> <li>B. Proceed with installation only after unsatisfactory conditions have been corrected.</li> <li>3.2 PREPARATION</li> </ul>	3.8 <u>COATING INSTALLATION</u>	<b>&lt;</b> Ų Ģ
of slopes indicated	A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to	A. Apply coatings to roofing and base flashings according to manufacturer's written recommendations, by spray, roller, or other suitable application method.	
ated. Identify products with	B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto	3.9 <u>FIELD QUALITY CONTROL</u>	
	surraces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast. C. Install insulation strips according to acoustical roof deck manufacturer's written instructions.	A. Final Roof inspection. Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion.	
	3.3 <u>ROOFING INSTALLATION, GENERAL</u>	B. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.	S   LA   S
	<ul> <li>A. Install rooling system according to rooling system manufacturer's written instructions.</li> <li>B. Complete terminations and base flashings and provide temporary seals to prevent water from entering</li> </ul>	C. Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.	
	completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.	3.10 PROTECTING AND CLEANING	I I I I I I I I I I I I I I I I I I I
	C. Install roofing and auxiliary materials to tie in to existing roofing to maintain weathertightness of transition and to not void warranty for existing roofing system.	A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage,	IS, LE P   CA
	3.4 SUBSTRATE BOARD INSTALLATION	<ul><li>describing its nature and extent in a written report, with copies to Architect and Owner.</li><li>B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements, repair</li></ul>	⊑   <b> </b> Ū \ B C
ended use and compatible	A. Install substrate board with long joints in continuous straight lines, perpendicular to roof slopes with end joints staggered between rows. Tightly butt substrate boards together.	substrates, and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.	П П П П П П П П П П П П П П П П П П П
ng jurisdiction.	1. Fasten substrate board to top flanges of steel deck according to recommendations in FM Global's "RoofNay" and FM Global Loss Prevention Data Sheet 1-29 for specified Windstorm Resistance	C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended	98   <b>B</b> T 8
all comply with the following	Classification.	END OF SECTION 075323	
075323 - 2	2. Tasten substrate board to top hanges of steel deck to resist uplift pressure at corners, perimeter, and field of roof according to roofing system manufacturers' written instructions.		oz <b>m</b>
515525 - 2	EITILENE-PKOPILENE-DIENE-MONOMEK (EPDM) KOOFING 0/5323 - 4	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING 075323 - 6	
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## SECTION 076200 SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL 1.1 SUMMARY

- A. Section Includes:
  - 1. Flashings and counterflashings.
- Reglets and accessories. 2.
- 3. Other fabricated sheet metal items required to keep building weathertight and not specifi 1.2 SUBMITTALS
- A. Product Data: Submit manufacturer information regarding components metal types, finishes, and B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening me terminations, and installation details.
- C. Fabricator's Certificate: Products meet or exceed specified requirements.
- D. Qualifications Statements:
- 1. Qualifications for fabricator and installer. 1.3 QUALITY ASSURANCE
- A. Fabricator: Company specializing in fabricating products specified in this Section with experience.
- B. Installer: Company specializing in performing Work of this Section with three (3) years' experie 1.4 DELIVERY, STORAGE, AND HANDLING
- A. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for dama
- B. Storage: Store materials according to manufacturer instructions. 1.
- Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. 2. Slope metal sheets to ensure drainage. 3.
- C. Protection:
  - 1. Protect materials from moisture and dust by storing in clean, dry location remote operations areas.
  - 2. Prevent contact with materials that may cause discoloration or staining. 3. Provide additional protection according to manufacturer instructions.
- PART 2 PRODUCTS
- 2.1 SHEET METAL FLASHING AND TRIM
- A. Manufacturers:
  - 1. Firestone Metals, Inc.
- 2. Car
- 3. Substitutions: Permitted. B. Performance and Design Criteria:
- 1. Sheet Metal Flashings: Comply with following criteria of SMACNA Manual.
- 2. Gutter and Downspout Components: Comply with applicable code for size and met discharge.
- 2.2 MATERIALS
- A. Prefinished Galvanized Steel Sheet:
- 1. Description:
  - a. Structural steel sheet.
  - b. Type: Thick core.
- c. Coating: Zinc; G90. 2. Comply with ASTM A755/A755M.
- 3. Thickness: 24 gauge
- 4. Coating: Kynar 500
- a. Color: By Owner.
- B. Prefinished Aluminum Sheet:
- 1. Description: Alloy and temper as required for application and finish.
- 2. Comply with ASTM B209.
- 3. Thickness: .032inch.

076200 -

- 2.3 FABRICATION
- A. Form section shapes as indicated, accurate in size, square, and free from distortion or defects.
- B. Fabricate cleats of same material as sheet metal, interlocking with sheet.
- C. Form pieces in longest possible lengths. D. Hem exposed edges on underside.
- E. Miter and seam corners.
- F. Forming:
  - 1. Form material with flat lock seams, except where otherwise indicated.
- 2. At moving joints, use sealed, lapped, bayonet-type, or interlocking hooked seams. G. Corners:
  - 1. Fabricate corners from one piece with minimum four (4)-inch long legs.
  - Seam for rigidity and seal with sealant. 2.
- H. Fabricate vertical faces with bottom edge formed outward and hemmed to form drip.
- I. Flashings:
  - 1. Fabricate flashings to allow toe to extend over roofing. 2. Return and brake edges.
- J. Gutters: Fabricate to profile and size as indicated..
- K. Downspouts: Fabricate to profile and size as indicated.
- L. Fabricate accessories in profile and size to suit gutters and downspouts, as follows: Anchorage Devices: Comply with SMACNA requirements. Type as recommended by fab 1
- Gutter Supports: Brackets and Straps. 2.
- 3. Downspout Supports: Brackets and Straps.
- M. Seal metal joints.
- A. Fasteners: Same material and finish as flashing metal.

  - Comply with ASTM D226. 2.
  - 3. Type: I, No. 15.

- A. Verify that roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly s place, and nailing strips have been located.
- B. Verify that roofing termination and base flashings are in place, sealed, and secure.
- 3.2 PREPARATION
- A. Install starter strips, edge strips, and cleats before starting installation of sheet metal flashing an B. Reglets:
  - 1. Install surface-mounted reglets to lines and levels as indicated.
  - 2. Seal top of reglets with sealant.
- 3.3 INSTALLATION
- A. Recessed Flashing Reglets:
  - 1. Insert flashings into reglets to form tight fit.
- 2. Seal flashings into reglets with sealant. B. Gutters:
- 1. Secure gutters and downspouts in place using concealed fasteners.
- C. Downspouts:
  - Seal connection watertight. 1. Seal metal joints watertight. 2.
    - END OF SECTION 076200

- 2.4 ACCESSORIES
- B. Underlayment:
  - Description: Unperforated asphalt felt. 1.
- C. Sealant: Type as specified in Section 079000 Joint Protection.
- PART 3 EXECUTION
- 3.1 EXAMINATION

<ul> <li>A. S. A. S.</li></ul>		PART 1 - GENERAL	a. Control, expansion, and soft joints in masonry.	
<ul> <li>A state of the second second</li></ul>		1.1 SUMMARY	<ul> <li>b. Joints between concrete and other materials.</li> <li>c. Joints between metal frames and other materials.</li> </ul>	
		A. Section Includes: 1. Sealants and joint backing.	d. Other exterior nontraffic joints for which no other sealant is indicated.	
Markar ( ) marked ( )		2. Precompressed foam sealers.	<ul> <li>B. General-Purpose Traffic-Bearing Sealant:</li> <li>1. Material: Polyurethane, Polysulfide.</li> </ul>	
	fied elsewhere.	<ol> <li>Hollow gaskets.</li> <li>Accessories.</li> </ol>	2. Comply with ASTM C920, Grade P, Class 25, Use T.	
<pre>Mail Ball Mail Mail Mail Mail Mail Mail Mail M</pre>	and characteristics.	1.2 SUBMITTALS	<ol> <li>Type: Single-component.</li> <li>Color: Standard; match finished surfaces.</li> </ol>	
	ethods, flashings,	A. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.	C. Exterior Metal Lap Joint Sealant:	
And		B. Manufacturer's Certificate: Products meet or exceed specified requirements.	<ol> <li>Material: Butyl or polyisobutylene.</li> <li>Type: Non-drving, non-skinning, non-curing</li> </ol>	SEAL AN DNLY TC DNLY T
<pre>ref ( ) ref ( ) r</pre>		C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention.	D. General Purpose Interior Sealant:	IONAL 9 APPLY ( APPLY ( APPLY ( APPLY ( APPLY ( APPLY ( APPLY ( APPLY) ( APPLY
<pre>name is a second is second is second is a second is a second is a second</pre>	three (3) years'	D. Qualifications Statements:	1. Material: Acrylic-emulsion latex.	CORESS ATURE
<pre>mb b c c c c c c c c c c c c c c c c c c</pre>		<ol> <li>Qualifications for manufacturer and applicator.</li> <li>QUALITY ASSURANCE</li> </ol>	<ol> <li>Comply with ASTM C834.</li> <li>Type: Single-component; paintable.</li> </ol>	FIGURATION CONTRACT THE PICTURE PICTUR
<pre>numerican set of the set of</pre>	ence.	A. Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years'	4. Color: Standard; match finished surfaces.	
<pre>     function of the state of the state</pre>	age.	experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.	5. Applications:	
<ul> <li>A constrained of the co</li></ul>		1.4 DELIVERY, STORAGE, AND HANDLING	<ul> <li>b. Joints between door and window frames and wall surfaces.</li> </ul>	
<pre>Note that is a set of the se</pre>		A. Store products according to manufacturer instructions.	c. Other interior joints for which no other type of sealant is indicated.	
<ul> <li>Transmission</li> <li>Transmission&lt;</li></ul>		1. Protect materials from moisture and dust by storing in clean, dry location remote from construction	1. Material: Silicone.	
<ul> <li>A Description of the second descrip</li></ul>	from construction	operations areas.	2. Comply with ASTM C920, Uses M and A.	
<ul> <li>A Determine of the second se</li></ul>		1.5 AMBIENT CONDITIONS	<ol> <li>Type: Single-component; mildew resistant.</li> <li>Color: Clear.</li> </ol>	
<pre>http://www.interpretation.com/security.</pre>		A. Maintain temperature and humidity as recommended by sealant manufacturer during and after installation.	5. Applications:	DESO ESO
<ul> <li>I DERIVED TO SERVICE SERV</li></ul>		A. Furnish one (1)-year installer's warranty for material defects and workmanship.	a. Joints between plumbing fixtures and floor and wall surfaces.	
		B. Include coverage for:	F. Acoustical Sealant:	
<ul> <li>A converte market is a converte market is</li></ul>		<ol> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and accessories exhibiting loss of adhesion or cohesion</li> </ol>	1. Material: Butyl or acrylic.	Second Seco
<ul> <li>to to down with a set of the set of</li></ul>		3. Sealants that do not cure.	<ol> <li>Comply with ASTM C920, Grade NS, Class 12-1/2, Uses M and A.</li> <li>Type: Single-component: solvent-release curing: non-skinning.</li> </ol>	
<ul> <li>A contract of the second sec</li></ul>	ethod of rainwater	PART 2 - PRODUCTS	<ol> <li>Applications: Concealed locations only at acoustically rated construction.</li> </ol>	
<ul> <li>A Construction of the second second</li></ul>		A. <u>Manufacturers</u> :	2.3 ACCESSORIES	ATE
<ul> <li>I and the set of the set</li></ul>		1. Pecora Corporation, Dynatrol 1	1. Type: Non-staining.	
<ul> <li> <ul> <li> <ul> <li> <ul> <li> <ul> <li> <ul> <li>Company</li> <l< td=""><td></td><td><ol> <li>Tremco, Dymonic</li> <li>SIKA Corportion, SIKA FLEX-1A</li> </ol></td><td>2. As recommended by sealant manufacturer to suit application.</td><td></td></l<></ul></li></ul></li></ul></li></ul></li></ul></li></ul>		<ol> <li>Tremco, Dymonic</li> <li>SIKA Corportion, SIKA FLEX-1A</li> </ol>	2. As recommended by sealant manufacturer to suit application.	
<ul> <li> <ul> <li></li></ul></li></ul>		<ol> <li>Substitutions: Approved equal.</li> </ol>	<ul> <li>B. Joint Cleaner:</li> <li>1. Type: Non-corrosive and non-staining.</li> </ul>	
<ul> <li>I were same in the second se</li></ul>		2.2 JOINT SEALERS BY APPLICATION	2. As recommended by sealant manufacturer.	
<ul> <li>A constrained and the field of the</li></ul>		<ul> <li>A. Figh-Performance General-Purpose Extenor (Nontrainc) Sealant.</li> <li>1. Material: Silicone.</li> </ul>	3. Compatible with joint forming materials.	COUF
<ul> <li>I. Surger All Augers and Surger All Augers and Surger All Augers and Surger All Augers and Surger All Augers All Augers</li></ul>		2. Comply with ASTM C920, Grade NS, Class 25, Uses M, G, and A.	<ol> <li>Joint Backing.</li> <li>Description: Round foam rod, compatible with sealant.</li> </ol>	6 6 3 1 6 CF
A service:   a. service:: Dott:: Dette::		<ol> <li>Type: Single-component.</li> <li>Color: [Standard: match finished surfaces] [As selected].</li> </ol>	2. Comply with ASTM D1056, sponge or expanded rubber, D1667, closed-cell PVC.	
<pre>set to the set of the set of</pre>		5. Applications:	D. Bond Breaker:	BL/ L/ L
<ul> <li>And And And And And And And And And And</li></ul>	_1	079000 - 1	079000 - 2	DENC MG: 00 NG: 01 NG:
<ul> <li>A series of a series</li></ul>	-1			ENA( SUT UIS, UIS, UIS, UIS, UIS, UIS, UCT RVEVI
<text><text></text></text>				FRON CIVIL/ PHONE CIVIL/ LAND G
<ul> <li>BENERWOODS (DECOMPOSITIONS)</li> <li>BENERWOODS (DECOMPOSITIONS)</li> <li>A think hanks</li> <li>A think</li></ul>			1. Description: Pressure-sensitive tape.	ACDNI
<ul> <li>Marking and Marking a</li></ul>		SECTION 079000 JOINT PROTECTION	2. As recommended by sealant manufacturer to suit application.	
<ul> <li>A field and and a set of the set of</li></ul>		PART 1 - GENERAL 1.1 SUMMARY	PART 3 - EXECUTION	
<ul> <li>A Subtransfer and Partial Partia Partial Partial Partial Partial Partial</li></ul>		A. Section Includes:		
<ul> <li>A result of a serie of a</li></ul>			A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.	
<ul> <li>A. Seession:</li> <li>B. Machaniza in the section of the secting of the secting of the</li></ul>		<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> </ol>	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> </ul>	
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Part I: - Product Order galants and accessories exhibiting to achieve waterlight seal. - Installed sealants and accessories exhibiting to so of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhesion or ochesion. - Installed sealants and accessories exhibiting toss of adhes	bricator.	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> </ol> 1.2 SUBMITTALS A. 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1       Installed sealands and accessories exhibiting loss of adhesion or cohesion.         3       Sealands that do not cure.         PART 2 - PRODUCTS       3         2.1       JOINT SEALERS         1.1       Pecora Corporation, Dynatrol 1         1.2       Fremo, Dynatrol 1         1.3       Sick Corporation, Dynatrol 1         1.4       Fremo, Dynatrol 1         1.5       Network denual.         2.2       JOINT SEALERS BY APPLICATION         A       High-Performance General-Purpose Exterior (Nontraffic) Sealant:         1.5       Network denual.         2.6       Corphy with ASTM CS20, Grade NS, Class 25, Uses M, G, and A.         3.5       Applications:         4       Color: [Slandard:, match finished surfaces] [As selected].         5       Applications:	bricator. set, reglets are in	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> </ol> 1.2 SUBMITTALS A. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability. B. Manufacturer's Certificate: Products meet or exceed specified requirements. C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention. D. Qualifications Statements: <ul> <li>Qualifications for manufacturer and applicator.</li> <li>Qualifications for manufacturer and applicator.</li> <li>QUALITY ASSURANCE</li> <li>Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.</li> <li>Applicator: Company specializing in performing Work of this Section with three (3) years' experience.</li> <li>DELIVERY, STORAGE, AND HANDLING</li> <li>Store products according to manufacturer instructions.</li> <li>Protection:         <ol> <li>Protection:</li> <li>Provide additional protection according to manufacturer instructions.</li> </ol> </li> <li>AMBIENT CONDITIONS</li> <li>Maintain temperature and humidity as recommended by sealant manufacturer during and after installation.     MARRANTY         A. Furnish one (1)-year installer's warranty for material defects and workmanship.         B. Include coursense for:         B. Include coursen</li></ul>	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li>3.2 PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>3.3 APPLICATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> <li>Acoustical Sealant:</li> <li>Comply with ASTM C919.</li> <li>Provide sealant bead between top stud runner and structure, and between bottom stud track and floor.</li> </ol> </li> <li>C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bord area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backing is not used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> </ul> 3.4 CLEANING <ul> <li>Clean adjacent soiled surfaces.</li> </ul> 3.5 PROTECTION <ul> <li>Protect sealants until cured.</li> </ul> END OF SECTION 079000	EEG: 220063 AS NOTED TATE: 2012
a dtim.       3. Sealants that do not cure.         PATE 2-PRODUCTS         2.1       JOINT SEALERS         A       Manufacturans:         1.       Pecora Corporation, Dynatrol 1         2.       Tremos, Dynamic         3.       Substitutions: Approved equal.         2.1       JOINT SEALERS         A       Manufacturans:         1.       Pecora Corporation, Dynatrol 1         2.1       JOINT SEALERS Exterior (Nontraffic) Sealant:         1.       Nateria: Silicone.         2.2       JOINT SEALERS Exterior (Nontraffic) Sealant:         1.       Materia: Silicone.         2.       Compt with ASTM C520, Grade NS, Class 25, Uses M, G, and A.         3.       Type: Single-component.         4.       Color: [Standard; match finished surfaces] [As selected].         5.       Applications:	bricator. set, reglets are in	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> </ol> 1.2 SUBMITTALS A. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability. B. Manufacturer's Certificate: Products meet or exceed specified requirements. C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention. D. Qualifications for manufacturer and applicator. 1.3 QUALITY ASSURANCE A. Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. 1.4 DELIVERY, STORAGE, AND HANDLING A. Store products according to manufacturer instructions. B. Protection: <ol> <li>Protection:</li> <li>Protection:</li> <li>Protection:</li> <li>Protection according to manufacturer instructions.</li> </ol> 1.5 AMBIENT CONDITIONS A. Maintain temperature and humidity as recommended by sealant manufacturer during and after installation. 1.6 WARRANTY A. Furnish one (1)-year installer's warranty for material defects and workmanship. B. Include coverage for: <ol> <li>Installed sealants and accessories failing to achieve watertight seal.</li> </ol>	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li>3.2 PREPARATION <ul> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> </ul> </li> <li>3.3 APPLICATION <ul> <li>A. Comply with ASTM C1193.</li> </ul> </li> <li>B. Acoustical Sealant: <ul> <li>C. Comply with ASTM C1193.</li> </ul> </li> <li>B. Acoustical Sealant: <ul> <li>Comply with ASTM C1193.</li> </ul> </li> <li>B. Acoustical Sealant: <ul> <li>C. Comply with ASTM C919.</li> <li>Provide sealant bead between top stud runner and structure, and between bottom stud track and floor.</li> </ul> </li> <li>C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backing is not used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>F. Joint Tooling: Concave.</li> </ul> <li>3.4 CLEANING <ul> <li>A. Clean adjacent solied surfaces.</li> </ul> </li> <li>3.5 PROTECTION <ul> <li>A. Protect sealants until cured.</li> </ul> </li>	Date:       Date:       Date:       Date:       Name
2.1 JOINT SEALERS A. <u>Manufacturers:</u> 1. Pecora Corporation, Dynatrol 1 2. Termon, Dynanoli 3. SIKA Corporation, SIKA FLEX-1A 4. Substitutions: Reproved equal. 2. JOINT SEALERS BY APPLICATION A. High-Performance General-Purpose Exterior (Nontraffic) Seatant: 1. Material: Silicone. 2. Comply with ASTM C920, Grade NS, Class 25, Uses M, G, and A. 3. Type: Single-component. 4. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. 079000 - 1 079000 - 1	bricator. set, reglets are in	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> </ol> 1.2 SUBMITTALS A. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability. B. Manufacturer's Certificate: Products meet or exceed specified requirements. C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention. D. Qualifications for manufacturer and applicator. 1.3 QUALITY ASSURANCE A. Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. B. Applicator: Company specializing in manufacturer instructions. B. Protection: <ol> <li>Protection:</li> <li>Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.</li> <li>Provide additional protection according to manufacturer instructions.</li> </ol> AMBIENT CONDITIONS A. Maintain temperature and humidity as recommended by sealant manufacturer during and after installation. I.6 WARRANTY A. Furnish one (1)-year installer's warranty for material defects and workmanship. B. Include coverage for: <ol> <li>Installed sealants and accessories failing to achieve watertight se</li></ol>	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li>3.2 PREPARATION <ul> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> </ul> </li> <li>3.3 APPLICATION <ul> <li>A. Comply with ASTM C1193.</li> </ul> </li> <li>B. Acoustical Sealant: <ul> <li>1. Comply with ASTM C1193.</li> </ul> </li> <li>B. Acoustical Sealant: <ul> <li>1. Comply with ASTM C1193.</li> </ul> </li> <li>B. Acoustical Sealant bead between top stud runner and structure, and between bottom stud track and floor.</li> </ul> <li>C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backing is not used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>F. Joint Tooling: Concave.</li> <li>3.4 CLEANING <ul> <li>A. Clean adjacent solied surfaces.</li> <li>3.5 PROTECTION</li> <li>A. Protect sealants until cured.</li> </ul> </li>	Image: Market indext
A <u>Manufacturers:</u> 1. Pecora Corporation, Dynatol 1 2. Trenco, Dymonic 3. SIKA Corporation, Synatol 1 4. Substitutions: Approved equal. 2.2 JOINT SEALERS BY APPLICATION A. High-Performance General-Purpose Exterior (Nontraffic) Sealant: 1. Materieti: Sillicone. 2. Comply with ASTM C920, Grade NS, Class 25, Uses M, G, and A. 3. Type: Single-component. 4. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 979000 - 3 97900 - 3 979900 - 3 97900 - 3 97900 - 3 97900 - 3 979900 - 3 9797900 - 3 97900	bricator. set, reglets are in nd trim.	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> </ol> 1.2 SUBMITTALS A. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability. B. Manufacturer's Certificate: Products meet or exceed specified requirements. C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention. D. Qualifications Statements: <ol> <li>Cualifications for manufacturer and applicator.</li> <li>QUALITY ASSURANCE</li> <li>Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.</li> <li>Applicator: Company specializing in performing Work of this Section with three (3) years' experience.</li> <li>Applicator: Company specializing in performing Work of this Section with three (3) years' experience.</li> <li>Applicator: Company specializing in performing Work of this Section with three (3) years' experience.</li> <li>Applicator: Company specializing to manufacturer instructions.</li> <li>Protection:</li> <li>Protection:</li> <li>Protection:</li> <li>Protection:</li> <li>Protection according to manufacturer instructions.</li> <li>Protection:</li> <li>Protection:</li> <li>Protection:</li> <li>Protection according to manufacturer instructions.</li> <li>AMBIENT CONDITIONS</li> <li>Malitain temperature and humidity as recommended by sealant manufacturer during and after installation.</li> <li>MARRANTY</li> <li>Include coverage for:</li> <li>Installed sealants and accessories failing to achieve waterlight seal.</li> <li>Installed sealants and accessories exhibiting loss of adhesion or cohesion.</li> <li>Sealants that do not cure.</li> </ol>	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li>3.2 PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>3.3 APPLICATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> <li>A. Acoustical Sealant: <li>Comply with ASTM C1193.</li> </li></ol> </li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> <li>A. Comply with ASTM C1193.</li> <li>C. Provide sealant bead between top stud runner and structure, and between bottom stud track and floor.</li> </ol> </li> <li>C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backing is not used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> <li>3.4 CLEANING <ul> <li>A. Clean adjacent solied surfaces.</li> </ul> </li> <li>3.5 PROTECTION <ul> <li>A. Protect sealants until cured.</li> </ul> </li> </ul>	PATE:     DATE:       Image: Sector Se
2 1 Fedda Collocation, Upriator 1 2. Tremos, Dymonic 3. SIKA Corporation, SIKA FLEX-1A 4. Substitutions: Approved equal. 2. JOINT SEALERS BY APPLICATION A. High-Performance General-Purpose Exterior (Nontraffic) Sealant: 1. Material: Silicone. 2. Comply with ASTM C920, Grade NS, Class 25, Uses M, G, and A. 3. Type: Single-component. 4. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. OTHOR 1. Color: [Standard; match finished surfaces] [As selected]. 3. Standard; match finished surfaces] [As selected] [As selected].	bricator. set, reglets are in nd trim.	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> </ol> 1.2 SUBMITTALS A. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability. B. Manufacturer's Certificate: Products meet or exceed specified requirements. C. Manufacturer instructions: Special procedures, surface preparation requiring special attention. D. Qualifications Statements: <ol> <li>Qualifications Statements:         <ol> <li>Qualifications for manufacturer and applicator.</li> </ol> 1.3 QUALITY ASSURANCE A. Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience. B. Protection: <ol> <li>Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.</li> <li>Provide additional protection according to manufacturer instructions.</li> <li>Malient CONDITIONS</li> <li>Malient interperature and humidity as recommended by sealant manufacturer during and after installation.</li> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and accessories exhibiting loss of adhesion or cohesion.</li> <li>Sealants that do not cure.</li> </ol></li></ol>	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>3.2 PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>3.3 APPLICATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Accoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>B. Accoustical Sealant: <ol> <li>Comply with ASTM C919.</li> <li>Protect elements surrounding work of plant backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backing is not used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> </ol> </li> <li>Clean adjacent solled surfaces.</li> <li>PROTECTION <ol> <li>Protect sealants until cured.</li> </ol> </li> </ul>	S TAINE ROAD 3137 FEG: 220063 SCALE: FEG: 220063 FEG: 220063 FE
2 Material: Silka Corportion, SIKA FLEX-1A. 3. SIKA Corportion, SIKA FLEX-1A. 4. Substitutions: Approved equal. 2.2 JOINT SEALERS BY APPLICATION A. High-Performance General-Purpose Exterior (Nontraffic) Sealant: 1. Material: Silicone. 2. Comply with ASTM 0290, Grade NS, Class 25, Uses M, G, and A. 3. Type: Single-component. 4. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 079000 - 1 079000 - 1 079000 - 1	bricator. set, reglets are in nd trim.	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> </ol> 12 SUBMITTALS A. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability. B. Manufacturer's Certificate: Products meet or exceed specified requirements. C. Manufacturer's Certificate: products meet or exceed specified requirements. C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention. D. Qualifications Statements: <ol> <li>Gualifications for manufacturer and applicator.</li> <li>QUALITY ASSURANCE</li> <li>Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.</li> <li>DELIVERY, STORAGE, AND HANDLING</li> <li>Store products according to manufacturer instructions.</li> <li>Protection:</li> <li>Protection:</li></ol>	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li><b>3.2</b> PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li><b>3.3</b> APPLICATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Accussical Sealant: <ol> <li>Comply with ASTM C193.</li> <li>Accussical Sealant</li> <li>Comply with ASTM C919.</li> <li>Provide sealant bead between top stud runner and structure, and between bottom stud track and floor.</li> </ol> </li> <li>C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backing is not used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> <li>Clean adjacent solied surfaces.</li> <li>PROTECTION</li> <li>Protect sealants until cured.</li> </ul>	NS     DATE:       NS     DATE:       NTAINE NEGHBORS     BMF       NTAINE ROAD     BMF       NTAINE ROAD     FEG: 220063       SCALE:     SCALE:       SCALE:     SCALE:
2. Substitutions: Approved equal. 2. JOINT SEALERS BY APPLICATION A. High-Performance General-Purpose Exterior (Nontraffic) Sealant: 1. Material: Silicone. 2. Comply with ASTM C920, Grade NS, Class 25, Uses M, G, and A. 3. Type: Single-component. 4. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2. 079000 - 3 2. 079000 - 1	bricator. set, reglets are in nd trim.	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> <li>SUBMITTALS</li> <li>Accessories.</li> <li>SUBMITTALS</li> <li>Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.</li> <li>Manufacturer's Certificate: Products meet or exceed specified requirements.</li> <li>Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention.</li> <li>Qualifications Statements:         <ol> <li>Qualifications for manufacturer and applicator.</li> <li>QUALITY ASSURANCE</li> <li>Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.</li> <li>Applicator: Company specializing in performing Work of this Section with three (3) years' experience.</li> </ol> </li> <li>Applicator: Company specializing in performing Work of this Section with three (3) years' experience.</li> <li>DELIVERY, STORACE, AND HANDLING</li> <li>Store products according to manufacturer instructions.</li> <li>Protection:         <ol> <li>Protection:             <ol> <li>Protection:                 <ol> <li>Protection:</li></ol></li></ol></li></ol></li></ol>	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li>PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>3.3 APPLICATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> <li>Accoustical Sealant:</li> <li>Comply with ASTM C1919.</li> <li>Protect elements are recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>Install bond breaker where joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>Install bond breaker where joint backers to achieve specific dimensions are indicated on Drawings.</li> <li>Joint Tooling: Concave.</li> </ol> </li> <li>3.4 CLEANING <ul> <li>Clean adjacent solied surfaces.</li> <li>FROTECTION</li> <li>Protect sealants until cured.</li> </ul> </li> </ul>	TIONS     DATE:       ONTAINE NEIGHBORS     BMF       AL ROOF REPLACEMENT     SCALE:       MO 63137     FEG: 220063
A. High-Performance General-Purpose Exterior (Nontraffic) Sealant: 1. Material: Silicone. 2. Comply with ASTM C920, Grade NS, Class 25, Uses M, G, and A. 3. Type: Single-component. 4. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 079000 - 3 079000 - 3 079000 - 3	bricator. set, reglets are in nd trim.	1. Sealants and joint backing.     2. Precompressed foam sealers.     3. Hollow gaskets.     4. Accessories.     1.2 SUBMITTALS     4. Accessories.     1.2 SUBMITTALS     4. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.     B. Manufacturer's Certificate: Products meet or exceed specified requirements.     C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention.     D. Qualifications Statements:         1. Qualifications Statements:         1. Qualifications for manufacturer and applicator.     Qualifications Statements:         1. Qualificativer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     J. DELUKERY, STORAGE, AND HANDLING     A. Store products according to manufacturer instructions.     B. Proteetion:         1. Proteetion according to manufacturer instructions.     J. Proteetion according to manufacturer instructions.     J. Proteetion according to manufacturer instructions.     J. Proteetion:         1. Installed sealants and accessories failing to achieve watertight seal.         L. Installed sealants and accessories scielling to achieve watertight seal.     J. JOINT SEALERS     A <u>Manufacturers:     1. Pecora Corporation, Dynatrol 1     Termos, Dymonic     3. SIKA Corpoation, SIKA FLEX-1A </u>	<ul> <li>A. Verify that jubit tacking and release tapes are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li>3.2 PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>3.3 APPLICATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C919.</li> <li>Provide sealant bead between top stud runner and structure, and between bottom stud track and floor.</li> </ol> </li> <li>C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Instail bond breaker where joint backing is not used.</li> <li>E. Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>F. Joint Tooling: Concave.</li> <li>3.5 PROTECTION <ul> <li>A. Clean adjacent solid surfaces.</li> </ul> </li> <li>3.5 PROTECTION <ul> <li>A. Clean adjacent solid surfaces.</li> </ul> </li> <li>B. Protect sealants until cured.</li> </ul>	ATIONS     Date:       ATIONS     Date:       FOUTAINE     BAF       JRAL ROOF REPLACEMENT     DRAWN:       JRAL ROOF REPLACEMENT     DRAWN:       JEFONTAINE ROAD     SCALE:       S, MO 63137     FEG: 220063
1.       Material: Silicone.         2.       Comply with ASTM C920, Grade NS, Class 25, Uses M, G, and A.         3.       Type: Single-component.         4.       Color: [Standard; match finished surfaces] [As selected].         5.       Applications:	bricator. set, reglets are in nd trim.	1. Sealants and joint backing.     2. Precompressed foam sealers.     3. Hollow gaskets.     4. Accessories.     12. SUBMITTALS     A. Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.     B. Manufacturer's Certificate: Products meet or exceed specified requirements.     C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention.     D. Qualifications Statements:         1. Qualifications Statements:         1. Qualifications for manufacturer and applicator.     13. QUALITY ASSURANCE     A. Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     J. DELIVERY, STORAGE, AND HANDLING     A. Store products according to manufacturer instructions.     J. Protection:         1. Protection:         1. Protection according to manufacturer instructions.     J. Protections areas.     J. Protections areas     J. Protections areas     J. Protections     A Maintain temperature and humidity as recommended by sealant manufacturer during and after installation.     WARRANTY     A. Furnish one (1)-year installer's warranty for material defects and workmanship.     J. Installed sealants and accessories failing to achieve watertight seal.     J. Installed sealants and accessories failing to achieve watertight seal.     J. Installed sealants and accessories failing to achieve watertight seal.     JoINT SEALERS     A. Manufacturers:         1. Percona Corporation, Dynatrol 1         2. Trestalled sealants and accessories failing to achieve watertight seal.         JoINT SEALERS     A. Manufacturers:         1. Peoroa Corporation, Dynatrol 1         2. Trestal LEPS ND LIPPENDENDENDENDENDENDENDENDENDENDENDENDENDE	<ul> <li>A. Verify that joint backing and release tapes are compatible with sealant.</li> <li>PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>3.3 APPLICATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C193.</li> <li>Protect elements surrounding Work of stud runner and structure, and between bottom stud track and floor.</li> <li>Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>Install bond breaker where joint backking is not used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> </ol> </li> <li>Clean adjacent solied surfaces.</li> <li>PROTECTION <ul> <li>Chean adjacent solied surfaces.</li> </ul> </li> <li>Protect sealants until cured.</li> </ul> <li>END OF SECTION 079000</li>	FICATIONS FICATIONS TURAL ROOF REPLACEMENT SELLEFONTAINE ROAD UIS, MO 63137 FEG: 220063
2. Comply with ASTM C920, Grade NS, Class 25, Uses M, G, and A. 3. Type: Single-component. 4. Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 2 079000 - 3 079000 - 3	bricator. set, reglets are in nd trim.	1. Sealants and joint backing.     2. Precompressed foam sealers.     3. Hollow gaskets.     4. Accessories.     12 SUBMITTALS     A Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.     B. Manufacturer's Certificate: Products meet or exceed specified requirements.     C. Manufacturer's Certificate: Products meet or exceed specified requirements.     Oualifications Statements:         1. Qualifications for manufacturer and applicator.     1.3 OUALITY ASSURANCE     A Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     I.4 DELIVERY, STORAGE, AND HANDLING     A. Store products according to manufacturer instructions.     Protection:         1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.         2. Provide additional protection according to manufacturer instructions.     15 AMBIENT CONDITIONS     A. Haintain temperature and humidity as recommended by sealant manufacturer during and after installation.     16 WARRANTY     A. Furnish one (1)-year installer's warranty for material defects and workmanship.     B. Include occurrage for:         1. Installed sealants and accessories scalisting to achieve watertight seal.         2. Installed sealants and accessories scalisting to achieve watertight seal.         3. UNIT SEALERS     A. Manufacturements         4. Manufacturements         4. Percencions.         5.1 JOINT SEALERS     A. Manufacturements         4. Performance Queryant for material defects and workmanship.         B. Include occurrage for:         1. Installed sealants and accessories scalisting to achieve watertight seal.	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li>3.2 PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>3.3 APPLICATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>B. Acoustical Sealant between top stud runner and structure, and between bottom stud track and floor.</li> <li>C. Measure joint dimensions and size joint backers to achieve width-0-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backing is not used.</li> <li>E. Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> <li>3.4 CLEANING <ul> <li>Clean adjacent solied surfaces.</li> </ul> </li> <li>3.5 PROTECTION <ul> <li>A. Protect sealants until cured.</li> </ul> </li> <li>END OF SECTION 079000</li> </ul>	CIFICATIONS CIFICATIONS INV2022 INV20 IN
2 Color: [Standard; match finished surfaces] [As selected]. 5. Applications: 079000 - 3	bricator. set, reglets are in nd trim.	1. Sealants and joint backing.     2. Precompressed foam sealers.     3. Hollow gaskets.     4. Accessories.     12 SUBMITTALS     A coessories.     12 SUBMITTALS     A Accessories.     12 SUBMITTALS     A Accessories.     12 SUBMITTALS     A Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.     B. Manufacturer Scrifticate: Products meet or exceed specified requirements.     C. Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention.     D. Qualifications Statements:         1. Qualifications for manufacturer and applicator.     13 OUALITY ASSURANCE     A Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     I.4 DELIVERY, STORAGE, AND HANDLING     A. Store products according to manufacturer instructions.     B. Protection:         1. Protect materials from molisture and dust by storing in clean, dry location remote from construction operations areas.         2. Provide additional protection according to manufacturer instructions.     I.5 AMBIENT CONDITIONS     A. Furnish one (1)-year installer's warranty for material defects and workmanship.     B. Include coverage for:         1. Installed sealants and accessories failing to achieve waterlight seal.         2. Invisit one (1)-year installer's warranty for material defects and workmanship.     B. Include coverage for:         1. Installed sealants and accessories shibiting loss of adhesion or cohesion.         3. Sealants that do not cure.     PART 2 - PRODUCTS     2.1 JOINT SEALERS     A Manufacturers:         1. Pecora Corporation, Dynatrol 1         2. Tremoc, Dymonic         3.	<ul> <li>A. Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>B. Verify that joint backing and release tapes are compatible with sealant.</li> <li>3.2 PREPARATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>C. Clean and prime joints.</li> <li>D. Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>3.3 APPL/CATION</li> <li>A. Comply with ASTM C1193.</li> <li>B. Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>A coustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>A coustical Sealant: <ol> <li>Comply with ASTM C919.</li> <li>Provide sealant bead between top stud runner and structure, and between bottom stud track and floor.</li> </ol> </li> <li>C. Measure joint dimensions and size joint backers to achieve width-to-depth tration, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>D. Install bond breaker where joint backing is not used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> <li>A CLEANING <ul> <li>Clean adjacent solied surfaces.</li> </ul> </li> <li>PROTECTION</li> <li>Protect sealants until cured.</li> </ul>	PECIFICATIONS       DATE:         BRE       88/2022         SELLEFONTAINE NEIGHBORS       BMF         TRUCTURAL ROOF REPLACEMENT       BMF         G69 BELLEFONTAINE ROAD       SCAE:         T. LOUIS, MO 63137       FEG: 220063
2 07900 - 3 07900 - 3 07900 - 1	bricator. set, reglets are in nd trim.	1. Sealants and joint backing.     2. Precompressed foam sealers.     3. Hollow gaskets.     4. Accessories.     12 SUBMITTALS     Accessories.     12. SUBMITTALS     A Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.     B. Manufacturer's Centificate Products meet or exceed specified requirements.     C. Manufacturer instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention.     D. Qualifications Statements:         1. Qualifications Statements:         1. Qualifications for manufacturer and applicator.     3. QUALITY ASSURANCE     A. Manufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     B. Applicator: Company specializing in performing Work of this Section with three (3) years' experience.     DELIVERY, STORAGE, AND HANDLINK     A. Store products according to manufacturer instructions.     B. Protection:         1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.         2. Provide additional protection according to manufacturer instructions.     1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.     2. Provide additional protection according to manufacturer instructions.     1. Protect materials from moisture and by sealant manufacturer during and after installation.     1.6 WARRANTY     A. Furnish one (1)-year installer's warranty for material defects and workmanship.     B. Include coverage for:         1. Installed sealants and accessories schibiting loss of adhesion or cohesion.         3. Sealants that do not cure.     PART 2: PRODUCTS     2.1 JOINT SEALERS         A. <u>Manufacturers</u> 1. Preoca Corpora	<ul> <li>Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>Verify that joint backing and release tapes are compatible with sealant.</li> <li>PERPARATION</li> <li>Comply with ASTM C1193.</li> <li>Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>Clean and prime joints.</li> <li>Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>APPLICATION</li> <li>Comply with ASTM C1193.</li> <li>Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> <li>Acoustical Sealant:</li> <li>Comply with ASTM C1193.</li> </ol> </li> <li>Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> </ul> <li>Acoustical Sealant: <ol> <li>Comply with ASTM C1193.</li> </ol> </li> <li>Acoustical Sealant: <ol> <li>Comply with ASTM C119.</li> <li>Provide sealant bead between top stud runner and structure, and between bottom stud track and floor.</li> </ol> </li> <li>Measure joint dimensions and size joint backers to achieve with-odepth traits, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions and track and floor.</li> <li>Joint Tooling: Concave.</li> <li>ClEANING</li> <li>ClEANING</li> <li>ClEANING</li> <li>Protect sealants until cured.</li>	SPECIFICATIONS     DATE:       SPECIFICATIONS     Nate:       BELLEFONTAINE NEIGHBORS     Nate:       STRUCTURAL ROOF REPLACEMENT     BMF       9669 BELLEFONTAINE ROAD     SCALE:       ST. LOUIS, MO 63137     FEG: 220063
	bricator. set, reglets are in nd trim.	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealars.</li> <li>Hollow gaskets.</li> <li>Accessories.</li> <li>SUBMITTALS</li> <li>Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.</li> <li>Manufacturer instructions: Special procedures, surface preparation requirements.</li> <li>Manufacturer instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention.</li> <li>Qualifications Statements:         <ol> <li>Qualifications Statements:</li> <li>Cualifications Statements:</li> <li>QuALIT ASUSRANCE</li> </ol> </li> <li>Amoufacturer: Company specializing in manufacturing products specified in this Section with three (3) years' experience.</li> <li>Applicator: Company specializing in performing Work of this Section with three (3) years' experience.</li> <li>DELIVERY, STORAGE, AND HANDLING</li> <li>Astore products according to manufacturer instructions.</li> <li>Protection:         <ol> <li>Protection:</li> <li>Protection:</li> <li>Protection:</li> <li>Protection:</li> <li>Protection:</li> <li>Protection:</li> <li>Installed sealants and accessories shibiting loss of adhesion or cohesion.</li> <li>Sealants that do not cure.</li> </ol> </li> <li>PART 2 - PROUCTS</li> <li>JOINT SEALERS</li> <li>Maufacturers:         <ol> <li>Preced Corporation, Dynatrol 1</li> <li>Tremoc, Dymonic</li> <li>SIKA Corposition, SIXA FLEX-1A</li> <li>SIKA Corposition, SIXA FLEX-1A<td><ul> <li>Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>Verify that joint backing and release tapes are compatible with sealant.</li> <li>PERPERATION</li> <li>Comply with ASTM C1193.</li> <li>Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>Clean and prime joints.</li> <li>Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>A PPLICATION</li> <li>Comply with ASTM C1193.</li> <li>A comply with ASTM C1193.</li> <li>A coustical Sealant: <ol> <li>Comply with ASTM C1193.</li> <li>A coustical Sealant:</li> <li>Comply with ASTM C119.</li> </ol> </li> <li>Measure joint idmensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>Install bond breaker where joint backing is no used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> <li>Clean adjacent solid surfaces.</li> <li>Protect sealants until cured.</li> </ul></td><td>SPECIFICATIONS       Date:         SPECIFICATIONS       National Structures         BELLEFONTAINE NEIGHBORS       National Structures         STRUCTURAL ROOF REPLACEMENT       BMF         STRUCTURAL ROOF REPLACEMENT       SCALE:         STRUCTURAL ROOF REPLACEMENT       SCALE:</td></li></ol></li></ol>	<ul> <li>Verify that substrate surfaces and joint openings are ready to receive Work of this Section.</li> <li>Verify that joint backing and release tapes are compatible with sealant.</li> <li>PERPERATION</li> <li>Comply with ASTM C1193.</li> <li>Remove loose materials and foreign matter that could impair adhesion of sealant.</li> <li>Clean and prime joints.</li> <li>Protect elements surrounding Work of this Section from damage or disfiguration.</li> <li>A PPLICATION</li> <li>Comply with ASTM C1193.</li> <li>A comply with ASTM C1193.</li> <li>A coustical Sealant: <ol> <li>Comply with ASTM C1193.</li> <li>A coustical Sealant:</li> <li>Comply with ASTM C119.</li> </ol> </li> <li>Measure joint idmensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated on Drawings.</li> <li>Install bond breaker where joint backing is no used.</li> <li>Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.</li> <li>Joint Tooling: Concave.</li> <li>Clean adjacent solid surfaces.</li> <li>Protect sealants until cured.</li> </ul>	SPECIFICATIONS       Date:         SPECIFICATIONS       National Structures         BELLEFONTAINE NEIGHBORS       National Structures         STRUCTURAL ROOF REPLACEMENT       BMF         STRUCTURAL ROOF REPLACEMENT       SCALE:         STRUCTURAL ROOF REPLACEMENT       SCALE:
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	bricator. set, reglets are in nd trim.	<ol> <li>Sealants and joint backing.</li> <li>Precompressed foam sealers.</li> <li>Holdow gaskets.</li> <li>Accessories.</li> <li>SUBMITTALS</li> <li>Product Data: Manufacturer information indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.</li> <li>Manufacturer's Certificate: Products meet or exceed specified requirements.</li> <li>Manufacturer Instructions: Special procedures, surface preparation requirements, and perimeter conditions requiring special attention.</li> <li>Qualifications Statements:         <ul> <li>Outilications for manufacturer and applicator.</li> <li>Qualifications Statements:</li> <li>Outilications previous specializing in manufacturing products specified in this Section with three (3) years' experience.</li> </ul> </li> <li>Applicator: Company specializing in performing Work of this Section with three (3) years' experience.</li> <li>DeLIVERY, STORAGE, AND HANDLING</li> <li>Store products according to manufacturer instructions.</li> <li>Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.</li> <li>Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.</li> <li>Protect materials from moisture and turn devine instructions.</li> <li>Manufacturer form</li> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and accessories failing to achieve watertight seal.</li> <li>Installed sealants and ac</li></ol>	<text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></text>	EFTNO.       SPECIFICATIONS       DATE:         10       SPECIFICATIONS       BATE:         10       BELLEFONTAINE NEIGHBORS       BMF         5669 BELLEFONTAINE ROAD       FEG: 20063         57. LOUIS, MO 63137       FEG: 20063