AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGES
	1		98

2. AMENDMENT/MODIFICAITON NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicble)
AMENDMENT NO. 0003	07/15/26		25-0010

6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE
NAVFAC Mid-Atlantic Resident Officer in Charge of Construction 1107A Birch Street Camp Lejeune, NC 28547-2521	N40085	See Item 6	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

CODE | FACILITY CODE

(X)

9A. AMENDMENT OF SOLICIATION NO.

X N40085-26-R-9050

9B. DATED (SEE ITEM 11)

07/06/26

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 11)

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a)By completing items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPIRATION DATA (If required)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

25-0010, Repair BEQ G702/G703
Amendment 0003, Update G703 Documents

The time and date for receipt of proposals remains 5 August 2026 at 2PM EST.

This amendment should be acknowledged when your proposal is submitted. Failure to acknowledge the amendment may constitute grounds for rejection of a proposal.

See Continuation Page(s)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED

CONTINUATION SHEET

1. Replace the G703 project specification PROJECT TABLE OF CONTENTS with the revised table of contents including specification section 23 11 20 Facility Gas Piping (see pages 3-6).

2. Replace the G703 PROJECT SUBMITTAL REGISTER with revised project submittal register including specification section 23 11 20 (see pages 7-84).

3. Add G703 Specification Section 23 11 20 – Facility Gas Piping footnoted to the project specifications. Specification added to clarify facility gas piping requirements (see pages 85-98).

4. All other terms and conditions remain unchanged.

PROJECT TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

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01 20 00	11/20, CHG 3: 02/23	PRICE AND PAYMENT PROCEDURES
01 30 00	08/25	ADMINISTRATIVE REQUIREMENTS
01 31 23.13 20	05/17, CHG 7: 11/21	ELECTRONIC CONSTRUCTION AND FACILITY SUPPORT CONTRACT MANAGEMENT SYSTEM
01 31 50	04/22	TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY
01 32 16.00 20	08/18, CHG 1: 08/20	SMALL PROJECT CONSTRUCTION PROGRESS SCHEDULES
01 33 00	04/22	SUBMITTAL PROCEDURES
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01 35 26	11/20, CHG 3: 02/22	GOVERNMENTAL SAFETY REQUIREMENTS
01 42 00	02/19	SOURCES FOR REFERENCE PUBLICATIONS
01 45 00	08/23	QUALITY CONTROL
01 50 00	12/21	TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS
01 57 19	09/25	TEMPORARY ENVIRONMENTAL CONTROLS
01 74 19	02/19, CHG 3: 11/21	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
01 78 00	04/22	CLOSEOUT SUBMITTALS
01 78 23	04/22	OPERATION AND MAINTENANCE DATA
01 78 24.00 20	03/23	FACILITY ELECTRONIC OPERATION AND MAINTENANCE SUPPORT INFORMATION (eOMSI)
01 78 30.00 22	5/22	GIS DATA DELIVERABLES

DIVISION 02 - EXISTING CONDITIONS

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DIVISION 03 - CONCRETE

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03 30 53	05/14	MISCELLANEOUS CAST-IN-PLACE CONCRETE (SIDEWALKS)

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04 20 01	11/15, CHG 2: 05/19	MASONRY INFILL AND PATCHING

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05 40 00	05/15, CHG 1: 08/18	COLD-FORMED METAL FRAMING
05 50 13	08/24, CHG 1: 08/25	MISCELLANEOUS METAL FABRICATIONS
05 51 33	02/16, CHG 2: 02/18	METAL LADDERS
05 52 01	02/18, CHG 1: 02/20	ALUMINUM RAILINGS

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06 10 00	08/16, CHG 3: 05/25	ROUGH CARPENTRY
06 41 16.00 10	08/10, CHG 1: 11/18	PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

06 61 16 08/20 SOLID SURFACING FABRICATIONS

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07 19 00 05/11, CHG 1: 08/17 WATER REPELLENTS
07 21 13 08/23, CHG 1: 08/25 BOARD AND BLOCK INSULATION
07 21 16 11/11, CHG 4: 08/18 MINERAL FIBER BLANKET INSULATION
07 22 00 08/23 ROOF AND DECK INSULATION
07 27 19.01 08/23, CHG 1: 08/24 SELF-ADHERING AIR BARRIERS
07 27 26 08/23 FLUID-APPLIED MEMBRANE AIR BARRIERS
07 27 36 08/23 SPRAY FOAM AIR BARRIERS
07 60 00 08/23, CHG 1: 05/25 FLASHING AND SHEET METAL
07 61 15.00 20 08 March 2021 CL ALUMINUM STANDING SEAM ROOFING
07 84 00 05/10, CHG 1: 08/13 FIRESTOPPING
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08 33 24 08/20, CHG 1: 02/22 ALUMINUM OVERHEAD COILING DOORS
08 33 25 08/20, CHG 1: 02/22 STAINLESS STEEL OVERHEAD COILING DOORS
08 51 13 05/19 ALUMINUM WINDOWS
08 71 00 02/16, CHG 4: 02/22 DOOR HARDWARE
08 81 00 05/19 GLAZING
08 91 00 06/24 MCBCL ALUMINUM WALL LOUVERS

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09 22 00 02/10, CHG 2: 08/18 SUPPORTS FOR GYPSUM BOARD
09 29 00 08/16, CHG 4: 02/20 GYPSUM BOARD
09 30 10 08/20 CERAMIC, QUARRY, AND GLASS TILING
09 67 23.13 11/19 STANDARD RESINOUS FLOORING
09 90 00 02/21 PAINTS AND COATINGS

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10 14 00.20 08/20 INTERIOR SIGNAGE
10 21 13 08/20 TOILET COMPARTMENTS
10 26 00 08/20 WALL AND DOOR PROTECTION
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10 44 16 11/19 FIRE EXTINGUISHERS
10 50 00 02/16 MISCELLANEOUS SPECIALTIES

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DIVISION 12 - FURNISHINGS

12 24 13 08/20 ROLLER WINDOW SHADES

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PROTECTION

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23 05 15	05/22, CHG 1: 02/24	COMMON PIPING FOR HVAC
23 05 48.19	05/18	BRACING FOR HVAC
23 05 93	11/15	TESTING, ADJUSTING, AND BALANCING FOR HVAC
23 07 00	08/24	THERMAL INSULATION FOR MECHANICAL SYSTEMS
23 09 00	02/25 MCBCL	INSTRUMENTATION AND CONTROL FOR HVAC
23 09 13	02/25 MCBCL	INSTRUMENTATION AND CONTROL DEVICES FOR HVAC
23 09 23.02	02/25 MCBCL	BACNET DIRECT DIGITAL CONTROL FOR HVAC AND OTHER BUILDING CONTROL SYSTEMS
23 11 20	05/20	FACILITY GAS PIPING
23 21 13.00 20	04/06, CHG 2: 11/19	LOW TEMPERATURE WATER (LTW) HEATING SYSTEM
23 23 00	08/21	REFRIGERANT PIPING
23 24 00	08/10	HYDRONIC PIPE CLEANING AND FLUSHING PROCEDURES
23 25 00	05/21	CHEMICAL TREATMENT OF WATER FOR MECHANICAL SYSTEMS
23 30 00	02/25	HVAC AIR DISTRIBUTION
23 52 43.00 20	05/15, CHG 2: 08/18	LOW PRESSURE WATER HEATING BOILERS (UNDER 800,000 BTU/HR OUTPUT)
23 64 10	05/25	WATER CHILLERS, VAPOR COMPRESSION TYPE
23 64 26	08/09, CHG 5: 11/19	CHILLED WATER PIPING SYSTEMS
23 81 00	05/24	DECENTRALIZED UNITARY HVAC EQUIPMENT

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25 05 11.00	09/22	CYBERSECURITY FOR FACILITY-RELATED CONTROL SYSTEMS - ISOLATED SYSTEMS

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26 08 00	11/22	APPARATUS INSPECTION AND TESTING
26 12 19	05/24	PAD-MOUNTED, LIQUID-FILLED, MEDIUM-VOLTAGE TRANSFORMERS
26 20 00	05/25, CHG 1: 08/25	INTERIOR DISTRIBUTION SYSTEM
26 24 13	08/21	SWITCHBOARDS
26 27 14.00 20	02/21, CHG 1: 05/21	ELECTRICITY METERING
26 41 00	08/23	LIGHTNING PROTECTION SYSTEM
26 51 00	05/20, CHG 2: 11/21	INTERIOR LIGHTING
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31 11 00	11/18	CLEARING AND GRUBBING
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32 11 23	05/22	AGGREGATE BASE COURSE
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32 31 14	11/21	HIGH-SECURITY FENCES (ORNAMENTAL) AND GATES
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SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
Repair BEQ G703

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	CLASSIFICATION	GOVT OR A/E REVWR	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION			APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS
							SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		
(a)	(b)	(c)	(d)	(e)	(f)		(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 14 00	SD-01 Preconstruction Submittals															
			List of Contact Personnel	1.3.1.1														
		01 20 00	SD-01 Preconstruction Submittals															
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		01 33 29	Final Sustainability eNotebook	1.5.2.2	G													
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			Radiography Operation Planning	1.15.1	G													
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		03 30 00	Quality Control Organizational	1.6.5														
			Chart															
			Laboratory Accreditation	1.6.7	G													
			SD-02 Shop Drawings															
			Reinforcing Steel	1.6.2.1	G													
			SD-03 Product Data															
			Joint Sealants	2.4.4	S													
			Joint Filler	2.4.3	S													
			Formwork Materials	2.1														
			Recycled Aggregate Materials	2.3.3.2	S													
			Cementitious Materials	2.3.1	S													
			Vapor Retarder	2.4.5														
			Concrete Curing Materials	2.4.1														
			Reinforcement	2.6	S													
			Admixtures	2.3.4														
			Mechanical Reinforcing Bar	2.6.2														
			Connectors															
			Biodegradable Form Release	2.2.2														
			Agent															
			Nonshrink Grout	2.4.2														
			SD-05 Design Data															
			Construction and Movement	2.2.4	G													
			Joints Locations and Details															
			Concrete Mix Design	1.6.1.1	G													
			SD-06 Test Reports															
			Concrete Mix Design	1.6.1.1	G													

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		03 30 00	Fly Ash	1.6.3.1	G													
			Pozzolan	1.6.3.1	G													
			Slag Cement	1.6.3.2	G													
			Aggregates	1.6.3.3	G													
			Portland Cement	2.3.1.1	G													
			Tolerance Report	3.8.2.1														
			Compressive Strength Tests	3.11.3.3	G													
			Unit Weight of Structural	3.11.3.5														
			Concrete															
			Air Content	3.11.3.4														
			Slump Tests	3.11.3.1														
			Water	2.3.2														
			SD-07 Certificates															
			Reinforcing Bars	2.6.1														
			Welder Qualifications	1.8														
			Field Testing Technician and	1.6.5.2														
			Testing Agency															
			SD-08 Manufacturer's Instructions															
			Joint Sealants	2.4.4	S													
			Curing Compound	2.4.1														
		03 30 53	SD-03 Product Data															
			Air-Entraining Admixture	2.2.3.1														
			Water-Reducing or Retarding	2.2.3.2														
			Admixture															
			Curing Materials	2.2.10														

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		03 30 53	Expansion Joint Filler Strips,	2.2.6														
			Premolded															
			Conveying and Placing Concrete	3.2														
			Formwork	2.2.7														
			Mix Design Data	2.3	G													
			Ready-Mix Concrete	2.3														
			Mechanical Reinforcing Bar	2.2.5														
			Connectors															
			SD-06 Test Reports															
			Aggregates	2.2.2														
			Concrete Mixture Proportions	2.1.3	G													
			Compressive Strength Testing	3.8.3	G													
			Slump	3.8.3	G													
			Air Content	3.8.3														
			Water	2.2.4														
			SD-07 Certificates															
			Cementitious Materials	2.2.1														
			Pozzolan	2.2.1.2														
			Aggregates	2.2.2														
			Delivery Tickets	2.3														
		04 20 01	SD-03 Product Data															
			Hot Weather Procedures	1.5.1	G													
			Cold Weather Procedures	1.5.2	G													
			Clay or Shale Brick	2.2.2	G													
			Cementitious Materials	2.4.1.1	G													
			SD-04 Samples															

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		04 20 01	Mock-Up Panel	1.3.1.1	G													
			Clay or Shale Brick	2.2.2	G													
			Concrete Masonry Units (CMU)	2.2.3.2	G													
			Admixtures for Masonry Mortar	2.4.1.4	G													
			Anchors, Ties, and Bar	2.6.2	G													
			Positioners															
			Joint Reinforcement	2.6.3	G													
			SD-05 Design Data															
			Fire-Rated Concrete Masonry	2.2.3.3														
			Units															
			SD-06 Test Reports															
			Efflorescence Test	2.2.2.1.5														
			Fire-Rated Concrete Masonry	2.2.3.3														
			Units															
			SD-07 Certificates															
			Clay or Shale Brick	2.2.2														
			Concrete Masonry Units (CMU)	2.2.3.2														
			Cementitious Materials	2.4.1.1														
			Admixtures for Masonry Mortar	2.4.1.4														
			Admixtures for Grout	2.4.2.2														
			Anchors, Ties, and Bar	2.6.2														
			Positioners															
			Joint Reinforcement	2.6.3														
			SD-08 Manufacturer's Instructions															
			Admixtures for Masonry Mortar	2.4.1.4														
			Admixtures for Grout	2.4.2.2														

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		04 20 01	SD-11 Closeout Submittals															
			Clay Units	2.2.2.1.4	S													
			Recycled Content	2.2.3.2.1	S													
		05 30 00	SD-02 Shop Drawings															
			Fabrication Drawings	1.3.5	G													
			SD-03 Product Data															
			Accessories	2.2														
			Deck Units	2.1														
			Galvanizing Repair Paint	2.1.3														
			Touch-Up Paint	2.1.3														
			Welding Equipment	1.3.3														
			Welding Rods and Accessories	1.3.3														
			Recycled Content of Steel	2.1	S													
			Products															
			SD-04 Samples															
			Metal Roof Deck Units	2.1.1														
			Flexible Closure Strips	2.2.4														
			SD-05 Design Data															
			Deck Units	2.1	G													
			SD-07 Certificates															
			Powder-Actuated Tool Operator	1.3.2														
			Welder Qualifications	1.3.3														
			Welding Procedures	1.3.3														
			Fire Safety	1.3.4.1														
			Wind Storm Resistance	1.3.4.2														
			Manufacturer's Certificate	1.3.1														

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		05 40 00	SD-02 Shop Drawings															
			Framing Components	1.5.1	G													
			SD-03 Product Data															
			Studs, Joists	2.1														
			Recycled Content of Steel	2.1	S													
			Products															
			SD-05 Design Data															
			Metal Framing Calculations	1.5.2	G													
			SD-07 Certificates															
			Welds	3.2.1														
		05 50 13	SD-02 Shop Drawings															
			Installation Drawings	2.6	G													
			Bollards/Pipe Guards	2.4	G													
			Retrofit Treads	2.7	G													
			Angles and Plates	2.6	G													
			SD-03 Product Data															
			Retrofit Treads	2.7	G													
			Recycled Content	2.1.1	S													
		05 51 33	SD-02 Shop Drawings															
			Ladders	2.3														
			SD-03 Product Data															
			Ladders	2.3														
			Ladder Safety Devices	2.3.2														
			SD-07 Certificates															
			Fabricator Certification for Ladder	1.3														
			Assembly															

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		05 52 01	SD-02 Shop Drawings															
			Hardware	3.2	G													
			Shapes, Plates, Bars and Strips	3.2	G													
			Masonry Anchorage Devices	2.2.1	G													
			Aluminum Railings and Handrails	2.2.3	G													
			SD-07 Certificates															
			Welding Procedures	1.3.1	G													
			Welder Qualification	1.3.2	G													
		06 10 00	SD-06 Test Reports															
			Preservative-treated	1.4.3														
			SD-07 Certificates															
			Certificates of Grade	1.8.1														
			Preservative Treatment	1.7														
		06 41 16.00 10	SD-02 Shop Drawings															
			Shop Drawings	2.8														
			Installation	3.1														
			SD-03 Product Data															
			Wood Materials	2.1														
			Finish Schedule	2.8.7.3														
			Certification	1.5.2														
			SD-04 Samples															
			Plastic Laminates	2.2														
			Cabinet Hardware	2.4														
			SD-07 Certificates															
			Quality Assurance	1.5														
			Laminate Clad Casework	3.1														

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		06 61 16	SD-02 Shop Drawings															
			Detail Fabrication Drawings	2.1	G													
			Installation	3.1	G													
			Shower Wall Panel And Pan	2.3.7														
			System															
			Shower Wall Panel And Pan	2.3.7														
			System															
			SD-03 Product Data															
			Solid Polymer	2.1.1	G													
			Indoor air quality for solid surface	2.2.2	S													
			seam and sealant products															
			Shower Wall Panel And Pan	2.3.7														
			System															
			Shower Wall Panel And Pan	2.3.7														
			System															
			SD-04 Samples															
			Material	2.1	G													
			Counter Tops	2.3.5	G													
			SD-06 Test Reports															
			Test Report Results	2.1.1														
			SD-07 Certificates															
			Qualifications	1.4.1														
			Indoor Air Quality for solid	2.1.1	S													
			surface fabrication products															
			SD-10 Operation and Maintenance															
			Data															

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		06 61 16	Solid Polymer	2.1.1	G													
		07 19 00	SD-03 Product Data															
			Water Repellents	2.2														
			SD-06 Test Reports															
			Water Absorption	1.3.2														
			Accelerated Weathering	2.3.1														
			Resistance to Chloride Ion	2.3.1														
			Penetration															
			Moisture Vapor Transmission	1.3.2														
			Moisture Vapor Transmission	2.3.1														
			Scaling Resistance	2.3.1														
			Water Penetration and Leakage	1.3.2														
			SD-07 Certificates															
			Manufacturer's Qualifications	1.3.1														
			Applicator's Qualifications	1.3.1														
			Evidence of Acceptable Variation	1.3.3														
			Warranty	1.12														
			SD-08 Manufacturer’s Instructions															
			Application	3.4														
			Safety Data Sheets	1.7.1														
		07 21 13	SD-02 Shop Drawings															
			Manufacturer's Standard Details	1.3	G													
			SD-03 Product Data															
			Environmental Data for Materials	1.4	G													
			Block or Board Insulation	2.1	G													
			Vapor Retarder	2.2	G													

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		07 21 13	Pressure Sensitive Tape	2.3	G													
			Accessories	2.4	G													
			Recycled Content for Block or	2.1.4	S													
			Board Insulation															
			SD-07 Certificates															
			Indoor Air Quality For Block Or	2.1.5	S													
			Board Insulation															
			SD-08 Manufacturer's Instructions															
			Insulation Installation and	3.3.1														
			Handling															
			Adhesive	2.4.1														
			SD-11 Closeout Submittals															
			Draft Guarantee	1.7.1	G													
			Final Guarantee	1.7.1	G													
			Draft Warranty	1.7.2	G													
			Final Warranty	1.7.2	G													
		07 21 16	SD-03 Product Data															
			Blanket Insulation	2.1														
			Accessories	2.2														
			SD-07 Certificates															
			Indoor Air Quality for Insulation	2.1.3	S													
			Materials															
			SD-08 Manufacturer's Instructions															
			Insulation	3.1.1														
		07 22 00	SD-02 Shop Drawings															
			Insulation Board Layout	1.3	G													

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		07 22 00	Verification of Prevailing	1.3	G													
			Conditions															
			SD-03 Product Data															
			Insulation	2.1	G													
			Recycled Content For Insulation	2.1.2	S													
			SD-05 Design Data															
			Wind Resistance	1.7	G													
			SD-06 Test Reports															
			Flame Spread Rating	1.8.1	G													
			SD-07 Certificates															
			Installer Qualifications	1.6	G													
			Indoor Air Quality For Insulation	2.1.3	S													
			Acceptable Foam Blowing Agents	2.1.4	S													
			SD-08 Manufacturer's Instructions															
			Insulation	2.1	G													
		07 27 19.01	SD-01 Preconstruction Submittals															
			Qualifications of Manufacturer	1.6.1	G													
			Qualifications of Installer	1.6.2	G													
			SD-02 Shop Drawings															
			Self-adhering Air Barrier Shop	1.4.1	G													
			Drawings															
			SD-03 Product Data															
			Self-adhering Air Barrier	2.1	G													
			Primers, Adhesives, and Mastics	2.2	G													
			Safety Data Sheets	1.4.2	G													
			SD-06 Test Reports															

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		07 27 19.01	Field Peel Adhesion Test	1.6.3	G													
			Flame Propagation of Wall	1.4.3	G													
			Assemblies															
			Site Inspections and Testing	3.4.1	G													
			SD-08 Manufacturer’s Instructions															
			Self-adhering Air Barrier	1.4.2	G													
			Manufacturer's Printed Instructions															
			Primers, Adhesives, and Mastics	2.2	G													
		07 27 26	SD-01 Preconstruction Submittals															
			Qualifications of Manufacturer	1.8.1	G													
			Qualifications of Installer	1.8.2	G													
			SD-02 Shop Drawings															
			Fluid-Applied Membrane Air	1.4.1	G													
			Barrier Shop Drawings															
			SD-03 Product Data															
			Fluid-Applied Membrane Air	1.4	G													
			Barrier															
			Transition Membrane	2.3	G													
			Primers, Adhesives, and Mastics	2.2	G													
			Reinforcement	2.6	G													
			Safety Data Sheets	1.4.2	G													
			SD-06 Test Reports															
			Capillary Moisture Test	1.6	G													
			Field Peel Adhesion Test	1.4.3	G													
			Flame Propagation of Wall	1.4.3	G													
			Assemblies															

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		07 27 26	Site Inspections	3.4.1	G													
			SD-08 Manufacturer’s Instructions															
			Fluid-Applied Membrane Air	1.4.2	G													
			Barrier Manufacturer's Printed															
			Instructions															
			Primers, Adhesives, and Mastics	1.4.2	G													
			Printed Manufacturer's Instructions															
		07 27 36	SD-01 Preconstruction Submittals															
			Qualification of Manufacturer	1.9.1	G													
			Qualification of Installer	1.9.2	G													
			Quality Control Plan	1.10	G													
			Safety Plan	1.10	G													
			Fire Prevention Plan	1.8.1	G													
			Respiratory Protection Plan	1.8.2	G													
			SD-02 Shop Drawings															
			Spray Foam Air Barrier System	1.5.1														
			Shop Drawings															
			SD-03 Product Data															
			Blowing Agents	2.1.5	G													
			Closed Cell	2.1.2	G													
			Transition Membrane	2.2	G													
			Primers, Adhesives, and Mastics	2.3	G													
			Sealants	2.5	G													
			Safety Data Sheets	1.5.2	G													
			Ignition Barrier Coatings	2.1.1	G													
			Accessories	2.1.1	G													

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		07 27 36	Recycled Content for Closed Cell	2.1.2	S													
			Spray Foam Air Barrier															
			SD-06 Test Reports															
			Peel Adhesion Test	1.5.3	G													
			Thermographic Test	3.4.5.1	G													
			Fire-Ratings Of Ignition Barrier	1.5.3	G													
			Materials															
			Flame Spread and Smoke	1.5.3	G													
			Developed Index Ratings of SPF															
			Products															
			Flame Propagation of Wall	1.5.3	G													
			Assemblies															
			Site Inspections	3.4.1	G													
			SD-07 Certificates															
			Indoor Air Quality for Spray Foam	2.1.5	S													
			Air Barrier															
			SD-08 Manufacturer’s Instructions															
			SPF Handling, Storage, and	1.6.1	G													
			Spray Procedures															
			Substrate Preparation	3.2.1	G													
			Ignition Barrier	1.5.2	G													
			Transition Membrane	3.3.3	G													
			Manufacturer's Installation															
			Instructions															

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		07 27 36	Manufacturer's Printed	1.5.2	G													
			Installation Instructions for															
			Primers, Adhesives, and Mastics															
			SD-09 Manufacturer's Field															
			Reports															
			Core Samples	1.10														
			Daily Work Record	3.3.4														
			Visual Inspection and Thermal	3.4.5														
			Scanning															
		07 60 00	SD-02 Shop Drawings															
			Exposed Sheet Metal	2.2.1	G													
			Gutters	3.1.12	G													
			Downspouts	3.1.13	G													
			fascia	2.2.1	G													
			Flashing at Roof Penetrations	3.1.16	G													
			and Equipment Supports															
			Drip Edges	3.1.11	G													
			Recycled Content	2.1	S													
			SD-04 Samples															
			Finish Samples	1.4.2	G													
			SD-07 Certificates															
			Warranty on Finishes	2.2.10.4	G													
			SD-08 Manufacturer's Instructions															
			Instructions for Installation	1.4.3	G													
			Quality Control Plan	3.5	G													

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		07 60 00	SD-10 Operation and Maintenance															
			Data															
			Cleaning and Maintenance	1.4.3	G													
		07 61 15.00 20	SD-02 Shop Drawings															
			Roofing panels	2.1	G													
			Gutters	2.4	G													
			Downspouts	2.4	G													
			SD-03 Product Data															
			Roofing panels	2.1	G													
			Attachment clips	2.3	G													
			Closures	2.4.1														
			Accessories	2.4														
			Fasteners	2.4.2														
			warranty	1.8	G													
			SD-04 Samples															
			Roofing panels	2.1														
			INTERMEDIATE SUPPORT	2.2														
			Accessories	2.4														
			SD-05 Design Data															
			Load calculations	1.5	G													
			SD-06 Test Reports															
			Panel Finish	2.5	G													
			Leakage Test Report	1.3.2.8														
			Wind Uplift Test Report	1.3.2.9														
			Finish	2.1.1.2														
			Manufacturer's field inspection	3.5	G													

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		07 61 15.00 20	SD-07 Certificates															
			Technical representative	1.6.2														
			Qualification of Installer	1.6.3														
			Coil stock	2.1.1.5														
			Qualification of Manufacturer	1.6.5														
			SD-08 Manufacturer's Instructions															
			Sealant	2.4.3														
			Installation	3.3														
			SD-11 Closeout Submittals															
			Information card	3.7														
		07 84 00	SD-02 Shop Drawings															
			Firestopping System	2.1	G													
			SD-03 Product Data															
			Firestopping Materials	2.2	G													
			SD-06 Test Reports															
			Inspection Form	3.3	G													
			Inspection Report	3.3.2	G													
			SD-07 Certificates															
			Inspector Qualifications	1.5.2	G													
			Firestopping Materials	2.2														
			Installer Qualifications	1.5.1	G													
		07 92 00	SD-03 Product Data															
			Sealants	2.1	G													
			Primers	2.2	G													
			Bond Breakers	2.3	G													
			Backstops	2.4	G													

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		07 92 00	Cleaning Solvents	2.5	G													
			SD-06 Test Reports															
			Field Adhesion	3.1	G													
			SD-07 Certificates															
			Indoor Air Quality For Interior	2.1.1	S													
			Sealants															
			Indoor Air Quality For Interior	2.1.3	S													
			Floor Joint Sealants															
		08 11 13	SD-02 Shop Drawings															
			Doors	2.1	G													
			Doors	2.1	G													
			Frames	2.4	G													
			Frames	2.4	G													
			Accessories	2.2														
			SD-03 Product Data															
			Doors	2.1	G													
			Recycled Content for Steel Door	2.1	S													
			Product															
			Frames	2.4	G													
			Recycled Content for Steel Frame	2.4	S													
			Product															
			Accessories	2.2														
		08 31 00	SD-02 Shop Drawings															
			Access Doors And Panels	1.3	G													
			SD-03 Product Data															
			Access Doors And Panels	1.3	G													

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		08 31 00	Hardware	1.3.2	G													
			Accessories	2.2.8	G													
			Recycled Content	2.1	S													
			SD-04 Samples															
			Finishes	2.5	G													
			SD-06 Test Reports															
			Fire-rating(s) of Assemblies	1.3.1	G													
		08 33 13	SD-02 Shop Drawings															
			Detail Drawings	1.3	G													
			SD-03 Product Data															
			Warranty	1.5														
			Rolling Counter Doors	2.1														
			Installation	3.1														
			Cleaning	3.3														
			SD-11 Closeout Submittals															
			Rolling Counter Door (20 Minute	2.3														
			Smoke Rated)															
		08 33 24	SD-02 Shop Drawings															
			Overhead Coiling Doors	2.2.1	G													
			Counterbalancing Mechanism	2.2.3	G													
			Electric Door Operators	2.2.4	G													
			Guides	2.1.1.1	G													
			Mounting Brackets	2.2.3.1	G													
			Hood	2.2.2.2	G													
			Installation Drawings	2.1.1.1	G													
			SD-03 Product Data															

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		08 33 24	Overhead Coiling Doors	2.2.1	G													
			Hardware	2.2.2	G													
			Counterbalancing Mechanism	2.2.3	G													
			Recycled content for aluminum	2.2.1.1	S													
			curtain slats															
			SD-05 Design Data															
			Overhead Coiling Doors	2.2.1	G													
			Hardware	2.2.2	G													
			Counterbalancing Mechanism	2.2.3	G													
			Wind Loading	2.1.2.1														
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	1.3.2	G													
			Manuals															
			SD-11 Closeout Submittals															
			Warranty	1.3.1	G													
		08 33 25	SD-02 Shop Drawings															
			Overhead Coiling Doors	2.2.1	G													
			Counterbalancing Mechanism	2.2.3	G													
			Electric Door Operators	2.2.4	G													
			Guides	2.1.1.1	G													
			Mounting Brackets	2.2.3.1	G													
			Hood	2.2.2.2	G													
			Installation Drawings	2.1.1.1	G													
			SD-03 Product Data															
			Overhead Coiling Doors	2.2.1	G													

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		08 33 25	Hardware	2.2.2	G													
			Counterbalancing Mechanism	2.2.3	G													
			Electric Door Operators	2.2.4	G													
			Recycled content for stainless	2.2.1.1	S													
			steel curtain slats															
			SD-05 Design Data															
			Overhead Coiling Doors	2.2.1	G													
			Hardware	2.2.2	G													
			Counterbalancing Mechanism	2.2.3	G													
			Electric Door Operators	2.2.4	G													
			Wind Loading	2.1.2.1														
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	1.3.2	G													
			Manuals															
			SD-11 Closeout Submittals															
			Warranty	1.3.1	G													
		08 51 13	SD-02 Shop Drawings															
			Windows	2.1	G													
			Fabrication Drawings	1.6														
			SD-03 Product Data															
			Windows	2.1	G													
			Recycled Content of Aluminum	2.1	S													
			Windows															
			Hardware	2.2.8.1	G													
			Fasteners	2.2.3	G													

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		08 51 13	Window Performance	1.7	G													
			Thermal-Barrier Windows	2.3	G													
			Mullions	2.4	G													
			Screens	2.2.10	G													
			Weatherstripping	2.1.5	G													
			Accessories	2.2.8	G													
			Adhesives	2.2.4														
			Thermal Performance	1.7.4	G													
			SD-04 Samples															
			Finish Sample	1.3.3.1														
			Window Sample	1.3.3.2														
			SD-05 Design Data															
			Structural Calculations for	2.1	G													
			Deflection															
			Design Analysis	1.3.4	G													
			SD-06 Test Reports															
			Minimum Condensation	1.3.5														
			Resistance Factor															
			Windborne-Debris-Impact	1.7.6														
			Performance															
			SD-07 Certificates															
			Engineer's Qualifications	1.3.4														
			SD-10 Operation and Maintenance															
			Data															
			Windows	2.1	G													
		08 71 00	SD-02 Shop Drawings															

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		08 71 00	Manufacturer's Detail Drawings	1.3	G													
			Verification of Existing Conditions	1.3	G													
			Hardware Schedule	1.5	G													
			Keying System	2.3.5	G													
			SD-03 Product Data															
			Hardware Items	2.3	G													
			SD-08 Manufacturer’s Instructions															
			Installation	3.1														
			SD-10 Operation and Maintenance															
			Data															
			Hardware Schedule	1.5	G													
			SD-11 Closeout Submittals															
			Key Bitting	1.6.1														
		08 81 00	SD-03 Product Data															
			Insulating Glass	2.2														
			Glazing Accessories	1.3														
			Sealants	2.3.1.1														
			Joint Backer	2.3.2														
			Rated Glazing	2.1.3														
			SD-04 Samples															
			Insulating Glass	2.2														
			Tape	2.3.4														
			Sealing Tapes	2.3.4														
			SD-08 Manufacturer’s Instructions															
			Setting and Sealing Materials	2.3														
			Glass Setting	3.2														

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		08 81 00	SD-11 Closeout Submittals															
			Insulated Glass Units	1.7.1														
		08 91 00	SD-02 Shop Drawings															
			Wall Louvers	1.4	G													
			SD-03 Product Data															
			Metal Wall Louvers	2.2	G													
			SD-04 Samples															
			Wall Louver Samples	1.5	G													
		09 03 00	SD-02 Shop Drawings															
			Work Plan	1.3														
			SD-03 Product Data															
			Cleaning Solution	2.1														
		09 22 00	SD-03 Product Data															
			Metal Support Systems	2.1														
			Recycled Content for Metal	2.1	S													
			Support Systems															
		09 29 00	SD-03 Product Data															
			Abuse Resistant Gypsum Board	2.1.2														
			Accessories	2.1.5														
			Gypsum Board	2.1.1														
			Recycled Content for Gypsum	2.1.1	S													
			Board															
			Recycled Content for Paper	2.1.1	S													
			Facing and Gypsum Cores															
			VOC Content of Joint Compound	2.1.3	S													
			SD-07 Certificates															

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		09 29 00	Asbestos Free Materials	2.1	G													
			Indoor Air Quality for Gypsum	2.1.1	S													
			Board															
			SD-08 Manufacturer's Instructions															
			Safety Data Sheets	2.1														
			SD-10 Operation and Maintenance															
			Data															
			Manufacturer Maintenance	2.1														
			Instructions															
		09 30 10	SD-02 Shop Drawings															
			Detail Drawings	3.2	G													
			SD-03 Product Data															
			Porcelain Tile	2.1.1	G													
			Recycled Content for Porcelain	2.1.1	S													
			Tile															
			Mosaic Tile	2.1.2	G													
			Recycled Content for Mosaic Tile	2.1.2	S													
			Transition Strips	2.1	G													
			Transition Strips	2.6.1	G													
			Metal Strips	2.6.2	G													
			Setting-Bed	2.2	G													
			Mortar, Grout, and Adhesive	2.4	G													
			Reinforcing Wire Fabric	2.2.6														
			Cementitious Backer Units	2.5.1	G													
			Waterproof Membrane	2.7	G													
			Crack Isolation Membrane	2.8	G													

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		09 30 10	SD-04 Samples															
			Tile	2.1	G													
			Accessories	2.1	G													
			Transition Strips	2.1	G													
			Transition Strips	2.6.1	G													
			Metal Strips	2.6.2	G													
			Grout	2.4.4	G													
			SD-07 Certificates															
			Indoor Air Quality for Adhesives	2.4	S													
			Indoor Air Quality for Sealants	2.4.8	S													
			Water Absorption Rates	1.3.2														
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Approved	3.8														
			Cleaning Instructions															
			SD-10 Operation and Maintenance															
			Data															
			Porcelain Tile	2.1.1														
			Mosaic Tile	2.1.2	G													
			Transition Strips	2.1	G													
			Transition Strips	2.6.1	G													
			Metal Strips	2.6.2	G													
		09 67 23.13	SD-03 Product Data															
			Manufacturer's Catalog Data	1.2.1	G													
			SD-04 Samples															
			Hardboard Mounted	1.5.2	G													
			SD-05 Design Data															

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		09 67 23.13	Design Mix Data	1.2.2	G													
			SD-07 Certificates															
			Listing of Product Installations	1.5.1	G													
			Referenced Standards	1.5	G													
			Certificates															
			SD-11 Closeout Submittals															
			Warranty	1.6	G													
		09 90 00	SD-02 Shop Drawings															
			Piping Identification	3.10														
			SD-03 Product Data															
			Coating	2.1	G													
			Product Data Sheets	2.1														
			SD-04 Samples															
			Color	2.2	G													
			SD-07 Certificates															
			Indoor Air Quality for Paints and	1.6.4														
			Primers															
			SD-08 Manufacturer’s Instructions															
			Application Instructions	3.2.1														
			Mixing	2.1														
			Manufacturer's Safety Data	1.8.1														
			Sheets															
			SD-10 Operation and Maintenance															
			Data															
			Coatings	2.1	G													
		10 14 00.10	SD-02 Shop Drawings															

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		10 14 00.10	Approved Detail Drawings	3.1	G													
			SD-03 Product Data															
			Installation	3.1														
			Exterior Signage	1.2	G													
			Wind Load Requirements	1.2.1														
			SD-04 Samples															
			Exterior Signage	1.2	G													
			SD-10 Operation and Maintenance															
			Data															
			Protection and Cleaning	3.1.2	G													
		10 14 00.20	SD-02 Shop Drawings															
			Detail Drawings	1.4.2	G													
			SD-03 Product Data															
			Installation	3.1	G													
			Warranty	1.6	G													
			SD-04 Samples															
			Interior Signage	1.4.1	G													
			Software	1.3	G													
			SD-10 Operation and Maintenance															
			Data															
			Approved Manufacturer's	3.1	G													
			Instructions															
			Protection and Cleaning	3.1.2	G													
		10 21 13	SD-02 Shop Drawings															
			Fabrication Drawings	2.1														
			Installation Drawings	3.2	G													

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		10 21 13	SD-03 Product Data															
			Cleaning and Maintenance	2.1														
			Instructions															
			Colors And Finishes	2.7														
			Anchoring Devices and Fasteners	2.2.2														
			Hardware and Fittings	2.2.4														
			Brackets	2.2.3														
			Door Hardware	2.2.5														
			Pilaster Shoes	2.5														
			Finishes	2.2.4.2	G													
			Finishes	2.7.2	G													
			Plastic Identification	2.1.1														
			Toilet Enclosures	2.3.1														
			Urinal Screens	2.3.2														
			SD-04 Samples															
			Colors and Finishes	2.7	G													
			Hardware and Fittings	2.2.4														
			Anchoring Devices and Fasteners	2.2.2														
			SD-07 Certificates															
			Warranty	1.6														
		10 26 00	SD-02 Shop Drawings															
			Corner Guards	2.2	G													
			SD-03 Product Data															
			Corner Guards	2.2	G													
			SD-04 Samples															
			Finish	2.4	G													

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		10 26 00	SD-06 Test Reports															
			Corner Guards	2.2														
			SD-07 Certificates															
			Corner Guards	2.2														
			Indoor air quality for adhesives	2.5	S													
		10 28 13	SD-02 Shop Drawings															
			Product Schedule	2.1	G													
			SD-03 Product Data															
			Recycled content for stainless	2.1	G													
			steel toilet accessories															
			Sanitary Napkin Disposal (SND)	2.1.3	G													
			Item A5109	2.1.4	G													
			Hook, Garment, Security	2.1.5	G													
			Item A5165	2.1.6	G													
			Shower Curtain Rod (SCR)	2.1.7	G													
			Toilet Tissue Dispenser (TTD)	2.1.8	G													
			Mirror (WM)	2.1.9	G													
			Foam Soap Dispenser (SD)	2.1.10	G													
			Semi Recessed Waste	2.1.11	G													
			Receptacle and Paper Towel															
			Dispenser (ITDW)															
			SD-10 Operation and Maintenance															
			Data															
			Sanitary Napkin Disposal (SND)	2.1.3	G													
			Hook, Garment, Security	2.1.5	G													
			Item A5165	2.1.6	G													

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		10 28 13	Shower Curtain Rod (SCR)	2.1.7	G													
			Toilet Tissue Dispenser (TTD)	2.1.8	G													
			Mirror (WM)	2.1.9	G													
			Foam Soap Dispenser (SD)	2.1.10	G													
			Semi Recessed Waste	2.1.11	G													
			Receptacle and Paper Towel															
			Dispenser (ITDW)															
		10 44 16	SD-02 Shop Drawings															
			Wall Brackets	2.1.1	G													
			Schedule	1.3	G													
			SD-03 Product Data															
			Wall Brackets	2.1.1	G													
			Replacement Parts List	3.2.1	G													
			SD-04 Samples															
			Equipment Samples	1.2.1	G													
		10 50 00	SD-02 Shop Drawings															
			Emergency Key Boxes	2.1	G													
			SD-03 Product Data															
			Emergency Key Boxes	2.1	G													
			Accessories	2.2	G													
			SD-10 Operation and Maintenance															
			Data															
			Maintenance	1.3	G													
		12 24 13	SD-02 Shop Drawings															
			Detailed Drawings	3.2	G													
			Location Schedule	2.1	G													

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		12 24 13	SD-03 Product Data															
			Window Shades	2.1	G													
			Recycled Content for various	2.1	S													
			fiber components															
			SD-04 Samples															
			Window Shades	2.1	G													
			SD-06 Test Reports															
			Flammability Requirements	1.4.2	G													
			SD-07 Certificates															
			Indoor Air Quality for roller	2.1	S													
			window shades															
			Qualifications	1.4.1.1														
			SD-10 Operation and Maintenance															
			Data															
			Window Shades	2.1	G													
		21 13 13	SD-01 Preconstruction Submittals															
			Qualified Fire Protection Engineer	1.2.3	G													
			(QFPE)															
			Sprinkler System Designer	1.4.2.1	G													
			Sprinkler System Installer	1.4.2.2	G													
			SD-02 Shop Drawings															
			Shop Drawing	1.2.1.1	G													
			SD-03 Product Data															
			Pipe	2.2.1.1	G													
			Fittings	2.2.1.2	G													
			Valves	2.2.4	G													

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		21 13 13	Riser Check Valves	2.2.5	G													
			Relief Valves	2.7.5	G													
			Sprinklers	2.6	G													
			Pipe Hangers and Supports	2.2.3	G													
			Sprinkler Alarm Switch	2.3.1	G													
			Valve Supervisory (Tamper)	2.3.2	G													
			Switch															
			Fire Department Connection	2.5	G													
			Backflow Prevention Assembly	2.4	G													
			Air Vent	2.7.6	G													
			Hose Valve	2.4.1	G													
			Nameplates	2.1.2	G													
			SD-05 Design Data															
			Hydraulic Calculations	1.2.1.2	G													
			SD-06 Test Reports															
			Test Procedures	3.6.1	G													
			SD-07 Certificates															
			Verification of Compliant	3.6.2.1	G													
			Installation															
			Request for Government Final	3.6.2.2	G													
			Test															
			SD-10 Operation and Maintenance															
			Data															
			Operating and Maintenance	3.8	G													
			(O&M) Instructions															
			Spare Parts	1.6	G													

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		21 13 13	SD-11 Closeout Submittals															
			As-built drawings	3.8														
		22 00 00	SD-02 Shop Drawings															
			Plumbing System	3.9.1	G													
			SD-03 Product Data															
			Backflow Prevention Assemblies	3.9.1.1	G													
			Recycled Content for Steel Pipe	2.1	S													
			Recycled Content for Cast Iron	2.1	S													
			Pipe															
			Fixtures	2.4														
			Shower Faucets	2.4.7	G													
			Flush Valve Water Closets	2.4.2														
			Flush Valve Urinals	2.4.3														
			Wall Hung Lavatories	2.4.4														
			WaterSense Label for Lavatory	2.4.1	S													
			Faucet															
			Service Sinks	2.4.5														
			Water Heaters	2.10	G													
			Energy Star Label for Gas	2.10.1.1	S													
			Storage Water Heater															
			Pumps	2.11	G													
			Vibration-Absorbing Features	3.4	G													
			Plumbing System	3.9.1														
			Thermostatic Mixing Valves	2.3.8														
			Temperature Controlled Mixing	2.3.9														
			Valve															

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		22 00 00	Point-Of-Use Mixing Valve	2.3.10														
			Automatic Temperature And	2.3.11														
			Pressure Compensating Valve															
			Single Supply Line Automatic	2.3.12														
			Temperature Control															
			SD-06 Test Reports															
			Tests, Flushing and Disinfection	3.9														
			Test of Backflow Prevention	3.9.1.1	G													
			Assemblies															
			SD-07 Certificates															
			Materials and Equipment	1.4														
			Bolts	2.1.1														
			SD-10 Operation and Maintenance															
			Data															
			Plumbing System	3.9.1	G													
		23 05 15	SD-01 Preconstruction Submittals															
			Material, Equipment, and Fixture	1.2	G													
			Lists															
			SD-02 Shop Drawings															
			Record Drawings	1.2	G													
			Connection Diagrams	1.2	G													
			Coordination Drawings	1.2	G													
			Fabrication Drawings	1.2	G													
			SD-03 Product Data															
			Miscellaneous Materials	2.2	G													
			Supporting Elements	2.3	G													

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		23 05 15	Equipment Foundation Data	1.2	G													
			SD-07 Certificates															
			List of Qualified Permanent	1.4.2	G													
			Service Organizations															
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.9	G													
			Manuals															
		23 05 48.19	SD-02 Shop Drawings															
			Coupling and Bracing	3.1														
			Flexible Couplings or Joints	3.3														
			Equipment Restraint	2.2														
			Contractor Designed Bracing	1.2.4	G													
			SD-03 Product Data															
			Coupling and Bracing	3.1	G													
			Flexible Couplings Or Joints	3.3	G													
			Equipment Restraint	2.2	G													
			Contractor Designed Bracing	1.2.4	G													
			Snubbers	2.6														
			Anchor Bolts	3.9														
			Vibration Isolators	2.2.2														
			SD-05 Design Data															
			Design Calculations	1.2.4														
			SD-06 Test Reports															
			Anchor Bolts	3.9	G													
		23 05 93	SD-01 Preconstruction Submittals															

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		23 05 93	Records of Existing Conditions	1.3.3														
			Independent TAB Agency and	1.5.1														
			Personnel Qualifications															
			TAB Design Review Report	1.5.3.1														
			SD-02 Shop Drawings															
			TAB Schematic Drawings and	1.3.3														
			Report Forms															
			SD-03 Product Data															
			Equipment and Performance	1.3														
			Data															
			TAB Related HVAC Submittals	1.5.1.3														
			SD-06 Test Reports															
			Completed Pre-Final DALT	3.3.5														
			Report															
			Certified Final DALT Report	3.3.8														
			Prerequisite HVAC Work	1.5.3.2														
			Checkout List															
			Prerequisite HVAC Work	1.5.3.2														
			Checkout List															
			Prerequisite HVAC Work	1.5.3.2														
			Checkout List															
			Proportional Balancing	3.4.5.1														
			Proportional Balancing	3.7														
			Season 1	3.4.5.2														
			Season 1	3.7														
			Season 2	3.4.5.2														

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		23 05 93	Season 2	3.7														
			SD-07 Certificates															
			Independent TAB Agency and	1.5.1														
			Personnel Qualifications															
			DALT and TAB Submittal and	1.5.3.1														
			Work Schedule															
			TAB Pre-Field Engineering	1.5.3.2														
			Report															
			Instrument Calibration	1.5.5														
			Certificates															
			DALT and TAB Procedures	3.7														
			Summary															
			Completed Pre-Final DALT Work	3.7														
			Checklist															
			Advance Notice of Pre-Final	3.3.2														
			DALT Field Work															
			Proportional Balancing	3.4.5.1														
			Proportional Balancing	3.7														
			Season 1	3.4.5.2														
			Season 1	3.7														
			Season 2	3.4.5.2														
			Season 2	3.7														
		23 07 00	SD-02 Shop Drawings															
			MICA Plates	3.2.2.4	G													
			Pipe Insulation Systems	2.3														
			Pipe Insulation Systems	3.2														

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		23 07 00	Duct Insulation Systems	3.3														
			Equipment Insulation Systems	3.4														
			Recycled content for insulation	2.3.1	S													
			materials															
			SD-03 Product Data															
			Pipe Insulation Systems	2.3	G													
			Pipe Insulation Systems	3.2	G													
			Duct Insulation Systems	3.3	G													
			Equipment Insulation Systems	3.4	G													
			SD-04 Samples															
			Thermal Insulation	2.2.1.3	G													
			Display Samples	3.1.1	G													
			SD-07 Certificates															
			Indoor air quality for adhesives	2.2.1	S													
			SD-08 Manufacturer's Instructions															
			Pipe Insulation Systems	2.3	G													
			Pipe Insulation Systems	3.2	G													
			Duct Insulation Systems	3.3	G													
			Equipment Insulation Systems	3.4	G													
		23 09 00	SD-02 Shop Drawings															
			Control System Drawings Title	3.1.1	G													
			Sheet															
			List Of I/O Points	3.1.2	G													
			Control System Components List	3.1.3	G													
			Control System Schematics	3.1.4	G													

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		23 09 00	Hvac Equipment Control Ladder	3.1.5	G													
			Diagrams															
			Sequence Of Operations	3.1.6	G													
			Component Wiring Diagrams	3.1.7	G													
			Terminal Strip Diagrams	3.1.8	G													
			Bacnet Communication	3.1.9	G													
			Architecture Schematic (Network															
			Riser)															
			Control Panel Layout	3.1.10	G													
			SD-06 Test Reports															
			Existing Conditions Report	3.3.1	G													
			Control Contractor's Performance	3.8.5	G													
			Verification Testing Plan															
			Equipment Supplier's	3.8.5	G													
			Performance Verification Testing															
			Plan															
			Performance Verification Testing	3.8.14	G													
			Report															
			Trends	3.9	G													
			Bus Waveform Report	3.10.1	G													
			SD-07 Certificates															
			Contractor's Qualifications	1.7.6	G													
			Contractor's Training	1.7.6	G													
			Certifications															
			SD-10 Operation and Maintenance															
			Data															

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		23 09 00	Controls System Operators	3.7	G													
			Manuals															
			SD-11 Closeout Submittals															
			Training Documentation	3.11.1	G													
			Warranty Information	3.7	G													
		23 09 13	SD-03 Product Data															
			Sensors And Input Hardware	2.3	G													
			Output Hardware	2.4	G													
			Duct Smoke Detectors	2.6.1	G													
			Variable Frequency (Motor)	2.7	G													
			Drives															
			SD-06 Test Reports															
			Vfd Start-Up Test Documentation	2.7.2	G													
			SD-10 Operation and Maintenance															
			Data															
			Vfd Service Manuals	2.7.2	G													
		23 09 23.02	SD-03 Product Data															
			Direct Digital Controllers	2.1.3	G													
			Bacnet Gateways	2.1.3.12	G													
			Notebook Computer	2.1.5	G													
			Notebook Computer Software	2.1.6	G													
			Bacnet Operator Workstation	2.1.6.2	G													
		23 11 20	SD-02 Shop Drawings															
			Gas Piping System	1.5.1	G													
			Gas Piping System	2.2	G													
			Gas Piping System	3.2	G													

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		23 11 20	SD-03 Product Data															
			Pipe and Fittings	2.1	G													
			Gas Equipment Connectors	1.5.1	G													
			Gas Piping System	1.5.1	G													
			Gas Piping System	2.2	G													
			Gas Piping System	3.2	G													
			Pressure Regulators	2.5	G													
			Valves	2.3	G													
			SD-06 Test Reports															
			Testing	3.17	G													
			Pressure Tests	3.17.1	G													
			Test with Gas	3.17.2	G													
			SD-10 Operation and Maintenance															
			Data															
			Gas Facility System and	1.3.1	G													
			Equipment Operation															
			Gas Facility System Maintenance	1.3.2	G													
			Gas Facility Equipment	1.3.3	G													
			Maintenance															
		23 21 13.00 20	SD-02 Shop Drawings															
			Hot water heating system	1.3.1														
			SD-03 Product Data															
			Pumps	2.4.1														
			Expansion tanks	2.4.2														
			Flow measuring equipment	2.4.4														
			External air separation tanks	2.4.3														

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		23 21 13.00 20	Hot water heating pipe	2.2.1														
			Combination Strainer And Pump	2.2.10.2														
			Suction Diffuser															
			SD-06 Test Reports															
			Hydrostatic test of piping system	3.3.1														
			Auxiliary equipment and	3.3.2														
			accessory tests															
			SD-07 Certificates															
			Backflow preventer certification	1.5.4														
			Report of prior installations	1.5.2.1														
			Welding procedures	1.5.2.2														
			Welder's qualifications	1.5.2.3														
		23 23 00	SD-02 Shop Drawings															
			Refrigerant Piping System	2.2	G													
			SD-03 Product Data															
			Refrigerant Piping System	2.2														
			Qualifications	1.3.1														
			Refrigerant Piping Tests	3.4														
			SD-06 Test Reports															
			Refrigerant Piping Tests	3.4														
			SD-07 Certificates															
			Service Organization	2.1														
			SD-10 Operation and Maintenance															
			Data															
			Maintenance	1.5	G													

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		23 23 00	Operation and Maintenance	3.3	G													
			Manuals															
		23 24 00	SD-03 Product Data															
			Detergent	2.1														
			Water Treatment	2.1														
		23 25 00	SD-03 Product Data															
			Water Analysis	2.1.3	G													
			Spare Parts	1.3														
			Field Instructions	3.4.1														
			Tests	3.3.1	G													
			Training Course	3.4.1	G													
		23 30 00	SD-02 Shop Drawings															
			Detail Drawings	1.4.4	G													
			SD-03 Product Data															
			Insulated Nonmetallic Flexible	2.11.1.1														
			Duct Runouts															
			Duct Connectors	2.11.1.1														
			Duct Access Doors	2.11.2	G													
			Fire Dampers	2.11.3	G													
			Manual Balancing Dampers	2.11.4	G													
			Gravity Backdraft and Relief	2.11.6	G													
			Dampers															
			Diffusers	2.11.7.1														
			Registers and Grilles	2.11.7.3														
			Louvers	2.11.8														

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		23 30 00	Air Vents, Penthouses, and	2.11.9														
			Goosenecks															
			In-Line Centrifugal Fans	2.12.1.1														
			Propeller Type Sidewall Fans	2.12.1.2														
			Air Handling Units	2.13	G													
			Energy Recovery Devices	2.14	G													
			Test Procedures	1.4.5														
			Diagrams	1.2.1.2	G													
			Indoor Air Quality for Duct	2.11.1	S													
			Sealants															
			SD-06 Test Reports															
			Performance Tests	3.12	G													
			Damper Acceptance Test	3.10	G													
			SD-07 Certificates															
			Bolts	1.4.1														
			Ozone Depleting Substances	1.4.3														
			Technician Certification															
			SD-08 Manufacturer’s Instructions															
			Manufacturer's Installation	3.2														
			Instructions															
			Operation and Maintenance	3.14.2														
			Training															
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.14.1	G													
			Manuals															

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		23 30 00	Fire Dampers	2.11.3	G													
			Manual Balancing Dampers	2.11.4	G													
			In-Line Centrifugal Fans	2.12.1.1	G													
			Propeller Type Sidewall Fans	2.12.1.2	G													
			Air Handling Units	2.13	G													
			Energy Recovery Devices	2.14	G													
			SD-11 Closeout Submittals															
			Indoor Air Quality During	3.13	S													
			Construction															
		23 52 43.00 20	SD-02 Shop Drawings															
			Fuel Train	1.3.2.2														
			Wiring Diagram	1.3.2.2														
			SD-03 Product Data															
			Boilers	2.1														
			Boiler Trim and Control	2.2														
			Equipment															
			Stack, Breeching, and Supports	2.2.17														
			SD-06 Test Reports															
			Operational Tests	3.3.1														
			SD-07 Certificates															
			Boilers	2.1														
			Boiler Trim and Control	2.2														
			Equipment															
			SD-08 Manufacturer's Instructions															
			Boilers	2.1														
			Feedwater Treatment Feeder	2.2.7														

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		23 52 43.00 20	SD-10 Operation and Maintenance															
			Data															
			Boilers	2.1														
			SD-11 Closeout Submittals															
			Boilers	2.1														
		23 64 10	SD-03 Product Data															
			Verification of Dimensions	1.6.1														
			System Performance Tests	3.6														
			Demonstrations	3.7														
			Refrigerant	2.5.1														
			Water Chiller - Field Acceptance	3.5.1														
			Test Plan															
			Scroll Type Water Chiller	2.4.1														
			SD-06 Test Reports															
			Field Acceptance Testing	3.5														
			Water Chiller - Field Acceptance	3.5.2														
			Test Report															
			Factory Tests	2.8														
			System Performance Tests	3.6														
			Factory Test Schedule	3.2	G													
			Startup Report	3.3														
			SD-07 Certificates															
			Refrigeration System	3.1.7	G													
			Refrigeration Technician	1.3.1														
			Certification															
			SD-08 Manufacturer's Instructions															

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		23 64 10	Water Chiller - Installation	3.1	G													
			Instructions															
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.7	G													
			Manuals															
			Training Course Schedule	3.7	G													
			SD-11 Closeout Submittals															
			Indoor Air Quality During	3.4	S													
			Construction															
		23 64 26	SD-03 Product Data															
			Calibrated Balancing Valves	2.5.8	G													
			Water Temperature Regulating	2.5.9	G													
			Valves															
			Water Pressure Reducing Valve	2.5.10														
			Pressure Relief Valve	2.5.11														
			Combination Pressure and	2.5.12														
			Temperature Relief Valves															
			Expansion Joints	2.6.9	G													
			Pumps	2.7	G													
			Combination Strainer and Pump	2.6.3														
			Suction Diffuser															
			Expansion Tanks	2.8														
			Air Separator Tanks	2.9														
			Water Treatment Systems	2.10	G													
			SD-06 Test Reports															

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		23 64 26	Piping Welds NDE Report	3.1.1.3														
			Pressure Tests Reports	3.4.2	G													
			SD-07 Certificates															
			Employer's Record Documents	3.1.1.1														
			(For Welding)															
			Welding Procedures and	3.1.1.2														
			Qualifications															
			SD-08 Manufacturer's Instructions															
			Lesson plan for the Instruction	3.5														
			Course															
			SD-10 Operation and Maintenance															
			Data															
			Water Treatment Systems	2.10														
			Calibrated Balancing Valves	2.5.8														
			Water Temperature Regulating	2.5.9														
			Valves															
			Water Pressure Reducing Valve	2.5.10														
			Pressure Relief Valve	2.5.11														
			Combination Pressure and	2.5.12														
			Temperature Relief Valves															
			Expansion Joints	2.6.9														
			Pumps	2.7														
			Combination Strainer and Pump	2.6.3														
			Suction Diffuser															
			Expansion Tanks	2.8														
			Air Separator Tanks	2.9														

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		23 81 00	SD-03 Product Data															
			Spare Parts	3.7.1														
			Posted Instructions	3.4														
			Coil Corrosion Protection	2.5.1														
			System Performance Tests	3.6														
			Training	3.4	G													
			Inventory	1.5														
			Supplied Products	2.1														
			Manufacturer's Standard Catalog	2.2														
			Data															
			Dehumidifiers	2.3.3														
			SD-06 Test Reports															
			Refrigerant Tests, Charging, and	3.5	G													
			Start-Up															
			System Performance Tests	3.6	G													
			SD-07 Certificates															
			Service Organizations	3.7.2														
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.4	G													
			Manuals															
			SD-11 Closeout Submittals															
			Ozone Depleting Substances	2.2.2.3	S													
		25 05 11.00	SD-01 Preconstruction Submittals															
			Qualifications	1.7.1	G													

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		25 05 11.00	Device Account Lock Exception	3.1.2.2	G													
			Request															
			Contractor Computer	1.10.1.4	G													
			Cybersecurity Compliance															
			Statements															
			Contractor Temporary Network	1.10.6	G													
			Cybersecurity Compliance															
			Statements															
			SD-02 Shop Drawings															
			Cybersecurity Riser Diagram	1.8.4	G													
			Control System Inventory Report	1.8.2	G													
			SD-03 Product Data															
			Control System Cybersecurity	1.8.5	G													
			Documentation															
			SD-06 Test Reports															
			Wireless Communication Test	3.1.3.3	G													
			Report															
			SD-07 Certificates															
			Software Licenses	1.9	G													
			SD-11 Closeout Submittals															
			Password Summary Report	3.4.2.2.3	G													
			Software Recovery And	1.8.3	G													
			Reconstitution Images															
			Device Audit Record Upload	3.2.2.1	G													
			Software															
		26 05 73	SD-01 Preconstruction Submittals															

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		26 05 73	Field Examination Plan	3.1	G													
			Arc Flash Label Formats	3.2.9	G													
			SD-06 Test Reports															
			Field Examination	3.1.1														
			SD-07 Certificates															
			System Analyzer	1.4.1	G													
			SD-11 Closeout Submittals															
			Model Files	3.3	G													
			Load Flow Study	3.2.4	G													
			Fault Current Study	3.2.5	G													
			System Coordination Study	3.2.6	G													
			Arc Flash Hazard Study	3.2.7	G													
		26 08 00	SD-06 Test Reports															
			Acceptance Tests and	3.1	G													
			Inspections															
			SD-07 Certificates															
			Qualifications	1.4.1	G													
			Acceptance Test and Inspections	1.4.3	G													
			Procedure															
		26 12 19	SD-02 Shop Drawings															
			Pad-mounted Transformer	1.5.1	G													
			Drawings															
			SD-03 Product Data															
			Pad-mounted Transformers	2.2	G													
			SD-06 Test Reports															
			Acceptance Checks and Tests	3.7.1	G													

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		26 12 19	SD-07 Certificates															
			Transformer Efficiencies	2.2.2.1	G													
			SD-09 Manufacturer's Field															
			Reports															
			Transformer Test Schedule	2.7.1	G													
			Design Tests	2.7.2	G													
			Routine and Other Tests	2.7.3	G													
			SD-10 Operation and Maintenance															
			Data															
			Transformer(s)	1.6.1	G													
		26 20 00	SD-02 Shop Drawings															
			Panelboards	2.12	G													
			Transformers	2.14	G													
			Cable Trays	2.3	G													
			Load Centers for Housing Units	2.13.2	G													
			SD-03 Product Data															
			Switches	2.9	G													
			Receptacles	2.11	G													
			Circuit Breakers	2.12.3	G													
			Housing Unit Load Center Circuit	2.13.2.2	G													
			Breakers															
			Transformers	2.14	G													
			Manual Motor Starters	2.15	G													
			Residential Load Centers	2.13	G													
			Meter Base Only	2.21	G													
			Secondary Bonding Busbar	2.17.1	G													

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		26 20 00	Surge Protective Devices	2.22	G													
			Cable Trays	2.3	G													
			SD-06 Test Reports															
			600-volt Wiring Test	3.5.2	G													
			Grounding System Test	3.5.6	G													
			Transformer Tests	3.5.3	G													
			Ground-fault Receptacle Test	3.5.4	G													
			Arc-fault Receptacle Test	3.5.5	G													
			SD-07 Certificates															
			Fuses	2.10	G													
			SD-09 Manufacturer's Field															
			Reports															
			Transformer Factory Tests	2.24.1														
			SD-10 Operation and Maintenance															
			Data															
			Electrical Systems	1.6.1	G													
		26 24 13	SD-02 Shop Drawings															
			Switchboard Drawings	1.5.2	G													
			SD-03 Product Data															
			Switchboard	2.2	G													
			SD-06 Test Reports															
			Switchboard Design Tests	2.5.2	G													
			Switchboard Production Tests	2.5.3	G													
			Acceptance Checks and Tests	3.5.1	G													
			SD-10 Operation and Maintenance															
			Data															

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		26 24 13	Switchboard Operation and	1.6.1	G													
			Maintenance															
			SD-11 Closeout Submittals															
			Assembled Operation and	1.6.2	G													
			Maintenance Manuals															
			Equipment Test Schedule	2.5.1	G													
			Required Settings	3.5	G													
			Service Entrance Available Fault	2.8	G													
			Current Label															
		26 27 14.00 20	SD-02 Shop Drawings															
			Installation Drawings	1.3.1	G													
			SD-03 Product Data															
			Electricity Meters	2.1.4	G													
			Current Transformer	2.1.3	G													
			Potential Transformer	2.1.2	G													
			Communications	2.2	G													
			SD-06 Test Reports															
			Acceptance Checks and Tests	3.2.1	G													
			System Functional Verification	3.2.2	G													
			Building Meter Installation Sheet,	3.2.1	G													
			per Building															
			Meter Configuration Template	2.1.1	G													
			Meter Configuration Report	3.2.1	G													
			SD-10 Operation and Maintenance															
			Data															

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		26 27 14.00 20	Electricity Meters and	1.4.1	G													
			Accessories															
			SD-11 Closeout Submittals															
			System Functional Verification	3.2.2	G													
		26 41 00	SD-06 Test Reports															
			Lightning Protection and	1.4.2	G													
			Grounding System Test Plan															
			Grounding Systems Testing	3.5.2	G													
			SD-07 Certificates															
			Component UL Listed and	1.4.1	G													
			Labeled															
			Lightning Protection System	1.4.3	G													
			Inspection Certificate															
			Roof Manufacturer's Warranty	3.1.1.1	G													
		26 51 00	SD-02 Shop Drawings															
			Luminaire Drawings	1.5.1	G													
			SD-03 Product Data															
			Luminaires	2.2	G													
			Light Sources	2.3	G													
			LED Drivers	2.4	G													
			Luminaire Warranty	1.6.1	G													
			Lighting Controls Warranty	1.6.2	G													
			Switches	2.5.1.1	G													
			Wall Box Dimmers	2.5.1.2	G													
			Occupancy/Vacancy Sensors	2.5.1.3	G													
			Time Clocks	2.5.1.4	G													

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		26 51 00	Power Packs	2.5.1.3.2	G													
			Exit Signs	2.6.1	G													
			Emergency Drivers	2.6.3	G													
			SD-05 Design Data															
			Luminaire Design Data	1.5.2	G													
			SD-06 Test Reports															
			ANSI/IES LM-79 Test Report	1.5.3	G													
			ANSI/IES LM-80 Test Report	1.5.4	G													
			ANSI/IES TM-21 Test Report	1.5.5	G													
			ANSI/IES TM-30 Test Report	1.5.6	G													
			Occupancy/Vacancy Sensor	3.2.1.1	G													
			Verification Test															
			Photosensor Verification Test	3.2.1.1	G													
			SD-07 Certificates															
			LED Driver and Dimming Switch	1.5.7	G													
			Compatibility Certificate															
			SD-10 Operation and Maintenance															
			Data															
			Lighting System	1.7.1	G													
			End-User Training Plan	3.3.1.1	G													
		26 56 00	SD-02 Shop Drawings															
			Luminaire Drawings	1.5.1.1	G													
			SD-03 Product Data															
			Luminaires	2.2	G													
			Light Sources	2.3	G													
			LED Drivers	2.4	G													

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		26 56 00	Luminaire Warranty	1.7.1	G													
			Lighting Controls Warranty	1.7.2	G													
			Photosensors	2.5.1.2	G													
			Time Clock	2.5.1.1	G													
			Lighting Contactor	2.5.1.3	G													
			SD-05 Design Data															
			Luminaire Design Data	1.5.2	G													
			SD-06 Test Reports															
			ANSI/IES LM-79 Test Report	1.5.3	G													
			ANSI/IES LM-80 Test Report	1.5.4	G													
			ANSI/IES TM-21 Test Report	1.5.5	G													
			SD-10 Operation and Maintenance															
			Data															
			Lighting System	1.8.1	G													
			End-User Training Plan	3.3.1.1	G													
		27 10 00	SD-02 Shop Drawings															
			Telecommunications Drawings	1.6.1.1	G													
			Telecommunications Space	1.6.1.2	G													
			Drawings															
			SD-03 Product Data															
			Telecommunications Cabling	2.3	G													
			Patch Panels	2.4.5	G													
			Telecommunications	2.5	G													
			Outlet/Connector Assemblies															
			Equipment Support Frame	2.4.2	G													
			Connector Blocks	2.4.3	G													

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		27 10 00	SD-06 Test Reports															
			Telecommunications Cabling	3.5.1	G													
			Testing															
			SD-07 Certificates															
			Telecommunications Contractor	1.6.2.1	G													
			Key Personnel	1.6.2.2	G													
			Manufacturer Qualifications	1.6.2.3	G													
			Test Plan	1.6.3	G													
			SD-09 Manufacturer's Field															
			Reports															
			Factory Reel Tests	2.11.1	G													
			SD-10 Operation and Maintenance															
			Data															
			Telecommunications Cabling and	1.10.1	G													
			Pathway System															
			SD-11 Closeout Submittals															
			Record Documentation	1.10.2	G													
		28 31 76	SD-01 Preconstruction Submittals															
			Qualified Fire Protection Engineer	1.3.2	G													
			(QFPE)															
			Fire alarm system designer	1.9.2.1	G													
			Supervisor	1.9.2.2	G													
			Technician	1.9.2.3	G													
			Installer	1.9.2.4	G													
			Test Technician	1.9.2.5	G													

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		28 31 76	Fire Alarm System Site-Specific	1.7	G													
			Software Acknowledgement															
			SD-02 Shop Drawings															
			Nameplates	1.9.1.3	G													
			Instructions	2.2.4	G													
			Wiring Diagrams	1.9.1.4	G													
			System Layout	1.9.1.5	G													
			Notification Appliances	1.9.1.6	G													
			Initiating devices	1.9.1.7	G													
			Amplifiers	1.9.1.8	G													
			Battery Power	1.9.1.9	G													
			Voltage Drop Calculations	1.9.1.10	G													
			SD-03 Product Data															
			Fire Alarm and Mass Notification	2.3	G													
			Control Unit (FMCU)															
			Amplifiers	1.9.1.8	G													
			Tone Generators	2.4	G													
			Digitalized voice generators	2.4	G													
			Manual Stations	2.5	G													
			Smoke Detectors	2.6	G													
			Duct Smoke Detectors	2.6.2	G													
			Addressable Interface Devices	2.7	G													
			Addressable Control Modules	2.8	G													
			Notification Appliances	1.9.1.6	G													
			Batteries	2.11.1	G													
			Battery Chargers	2.11.2	G													

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		28 31 76	Supplemental Notification	2.11.1.1	G													
			Appliance Circuit Panels															
			Auxiliary Power Supply Panels	2.11.1.1	G													
			Surge Protective Devices	2.12	G													
			Alarm Wiring	2.12	G													
			Back Boxes and Conduit	3.3.4	G													
			Ceiling Bridges	3.2.6	G													
			Terminal Cabinets	3.3.2	G													
			Digital Alarm Communicator	2.14.1	G													
			Transmitter (DACT)															
			Environmental Enclosures or	2.16	G													
			Guards															
			Document Storage Cabinet	3.11.3	G													
			SD-06 Test Reports															
			Test Procedures	3.7.1	G													
			SD-07 Certificates															
			Verification of Compliant	3.7.2.1	G													
			Installation															
			Request for Government Final	3.7.2.2	G													
			Test															
			SD-10 Operation and Maintenance															
			Data															
			Operation and Maintenance	3.9	G													
			(O&M) Instructions															
			Instruction of Government	3.10	G													
			Employees															

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		28 31 76	SD-11 Closeout Submittals															
			As-Built Drawings	1.9.1.13														
			Spare Parts	1.11.1														
		31 00 00	SD-01 Preconstruction Submittals															
			Disposition of Surplus Materials	3.8	G													
			Preconstruction Meeting	1.5.3	G													
			SD-06 Test Reports															
			Dewatering Performance Records	3.1.2.2	G													
			Material Test Report	3.9	G													
			Borrow Site Testing	3.2.2	G													
			Pipe Inspection Report	3.6.1.5	G													
		31 11 00	SD-03 Product Data															
			Tree Wound Paint	2.1.1														
			SD-04 Samples															
			Tree Wound Paint	2.1.1														
		31 31 16.13	SD-01 Preconstruction Submittals															
			Termiticide Application Plan	3.1.5	G													
			SD-03 Product Data															
			Termiticides	2.2.1														
			SD-05 Design Data															
			Mixing Formulation	3.2.2														
			SD-06 Test Reports															
			Soil Moisture	1.6.1														
			Calibration Test	3.2.1														
			SD-07 Certificates															
			Qualifications	1.4.2	G													

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		31 31 16.13	Foundation Exterior	3.1.2														
			Utilities and Vents	3.1.3														
			Crawl and Plenum Air Spaces	3.1.4														
			List of Equipment	3.2.1														
			SD-08 Manufacturer's Instructions															
			Termiticides	2.2.1														
			SD-11 Closeout Submittals															
			Verification of Measurement	3.3.1														
			Warranty	1.7														
			Pest Management Report	3.4														
		32 05 33	SD-01 Preconstruction Submittals															
			Integrated Pest Management	3.3.2	G													
			Plan															
			SD-03 Product Data															
			Fertilizer	2.1	G													
			Mulches Topdressing	2.3														
			Organic Mulch Materials	2.3.2														
			SD-07 Certificates															
			Maintenance Inspection Report	3.5.1														
			SD-10 Operation and Maintenance															
			Data															
			Maintenance	1.6														
		32 11 23	SD-03 Product Data															
			Plant, Equipment, and Tools	2.3	G													
			SD-06 Test Reports															
			Initial Tests	2.2.1	G													

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		32 11 23	In-Place Tests	3.13.1	G													
			Sampling And Testing	1.4	G													
			Field Density	1.4.2.4														
		32 11 26	SD-03 Product Data															
			Sources of Aggregates	1.3.4														
			Job Mix Formula	2.3.2	G													
			SD-06 Test Reports															
			Sources of Aggregates	1.3.4														
			Bituminous Materials	1.3.6														
			Bituminous Materials	2.2														
			Test Section	2.3.2	G													
			Service Record	1.3.4	G													
			SD-09 Manufacturer's Field															
			Reports															
			Batch Tickets	1.3.3														
		32 17 23.16	SD-01 Preconstruction Submittals															
			Quality Control Plan	1.3.1	G													
			Qualifications	1.3.2	G													
			Safety Data Sheets For Each	2.2	G													
			Paint Type															
			Safety Data Sheets For	2.1.1	G													
			Chemicals Used In Surface															
			Preparation															
			Data Sheets For Paint Removal	2.1.1	G													
			Equipment															

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		32 17 23.16	Surface Preparation Equipment	2.1	G													
			List															
			Marking Applications Equipment	2.1.2	G													
			List															
			SD-03 Product Data															
			Manufacturer Data Sheets for all	2.2	G													
			Marking Materials															
			SD-06 Test Reports															
			Marking Application Wet Film	3.4.3.1	G													
			Thickness Test															
			Marking Application Wet Film	3.4.3.2	G													
			Thickness Test															
			SD-07 Certificates															
			Manufacturer Certificate of	2.2	G													
			Compliance for Marking Materials															
			Manufacturer Certificate of	1.5.1.3	G													
			Conformance for Volatile Organic															
			Compliance															
			SD-08 Manufacturer's Instructions															
			Marking Materials Storage and	1.4	G													
			Application															
			Chemicals Used in Surface	1.4	G													
			Preparation															
		32 31 14	SD-02 Shop Drawings															
			Fence Installation Drawings	3.2.1	G													
			SD-03 Product Data															

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		32 31 14	Posts	2.1.2.1														
			Sleeves	3.2.3.2														
			Latches	2.1.5.1														
			Latches	3.2.4														
			Hinges	2.1.5.1														
			Stops	3.2.4														
			Keepers	3.2.4														
			Ornamental Fence Systems	2.1.1														
			Swing Gates	2.1.5.1														
			SD-07 Certificates															
			Gate Hardware and Accessories	3.2.1														
			Concrete	2.2.1														
		32 92 23	SD-03 Product Data															
			Fertilizer	2.4														
			SD-06 Test Reports															
			Topsoil composition tests	2.2.3														
			SD-07 Certificates															
			sods	2.1														
		32 93 00	SD-01 Preconstruction Submittals															
			State Landscape Contractor's	1.4.3														
			License															
			Time Restrictions and Planting	1.6														
			Conditions															
			SD-03 Product Data															
			Gypsum	2.3.5														
			Mulch	2.7	G													

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		32 93 00	Ground Stakes	2.8.1.2														
			Fertilizer	2.5														
			Weed Control Fabric	2.6	G													
			Staking Material	2.8.1														
			SD-06 Test Reports															
			Topsoil Composition Tests	2.2.2														
			SD-07 Certificates															
			Nursery Certifications	2.1.1														
		33 11 00	SD-01 Preconstruction Submittals															
			Connections	3.1.1	G													
			SD-03 Product Data															
			Pipe, Fittings, Joints and	2.1.1	G													
			Couplings															
			Valves	2.1.2	G													
			Valve Boxes	2.1.2.4	G													
			Fire Hydrants	2.1.3.1	G													
			Pipe Restraint	2.2.1	G													
			Backflow Preventer	1.4.2.1.1	G													
			Disinfection Procedures	3.2.3	G													
			Post Indicator	2.2.6														
			SD-06 Test Reports															
			Backflow Preventer Tests	3.3.1.5	G													
			Bacteriological Samples	3.3.1.4	G													
			Leakage Test	3.3.1.3														
			Hydrostatic Test	3.3.1.1														
			SD-07 Certificates															

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		33 11 00	Pipe, Fittings, Joints and	2.1.1														
			Couplings															
			Lining	2.1.1.1.1														
			Lining	2.1.1.1.1														
			Lining for Fittings	2.1.1.2.1.2														
			Valves	2.1.2														
			Fire Hydrants	2.1.3.1														
			Backflow Prevention Training	1.4.2.1.1.2														
			Certificate															
			Backflow Tester	1.4.2.1.1.1														
			Backflow Certificate	2.1.4														
			SD-08 Manufacturer’s Instructions															
			Ductile-Iron Piping	2.1.1.1														
			PVC Piping	2.1.1.2.1.1														
		33 30 00	SD-01 Preconstruction Submittals															
			Contractor's License	1.3.1	G													
			SD-02 Shop Drawings															
			Installation Drawings	3.1.1	G													
			SD-03 Product Data															
			Gravity Pipe	2.2.1														
			SD-06 Test Reports															
			Hydrostatic Sewer Test	3.3.1.1	G													
			Low-Pressure Air Tests	3.3.1.2.1	G													
			SD-07 Certificates															
			Portland Cement	2.2.2														
		33 40 00	SD-03 Product Data															

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		33 40 00	Pipe	2.1	G													
			SD-07 Certificates															
			Hydrostatic Test on Watertight	2.4.1	G													
			Joints															
			Frame and Cover or Gratings	2.3.4	G													
			SD-08 Manufacturer’s Instructions															
			Placing Pipe	3.3	G													
		33 61 14	SD-02 Shop Drawings															
			Factory-prefabricated	2.1														
			preinsulated water piping system															
			field joints	3.2														
			SD-03 Product Data															
			Pipe, fittings, and end	2.1														
			connections															
			Factory-prefabricated	2.1														
			preinsulated water piping system															
			SD-07 Certificates															
			Certification of welders'	1.4.1														
			qualifications															
			SD-08 Manufacturer’s Instructions															
			factory-prefabricated preinsulated	2.1														
			water piping system															
		33 71 02	SD-03 Product Data															
			Medium Voltage Cable	2.5	G													
			Medium Voltage Cable Joints	2.7	G													

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		33 71 02	Medium Voltage Cable	2.6	G													
			Terminations															
			Live End Caps	2.9	G													
			SD-06 Test Reports															
			Medium Voltage Cable	2.13.2	G													
			Qualification and Production Tests															
			Field Acceptance Checks and	3.16.1	G													
			Tests															
			Arc-proofing Test	2.13.1	G													
			SD-07 Certificates															
			Cable splicer/terminator	1.5.1	G													
			Cable Installer Qualifications	1.5.2	G													
		33 82 00	SD-02 Shop Drawings															
			Telecommunications Outside	1.6.1.1	G													
			Plant															
			Telecommunications Entrance	1.6.1.2	G													
			Facility Drawings															
			SD-03 Product Data															
			Wire and Cable	2.7	G													
			Cable Splices, and Connectors	2.4	G													
			Closures	2.3	G													
			Building Protector Assemblies	2.2.1	G													
			Protector Modules	2.2.2	G													
			SD-06 Test Reports															
			Pre-installation Tests	3.4.1	G													
			Acceptance Tests	3.4.2	G													

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		33 82 00	Outside Plant Test Plan	1.6.3	G													
			SD-07 Certificates															
			Telecommunications Contractor	1.6.2.1	G													
			Key Personnel	1.6.2.2	G													
			Manufacturer's Qualifications	1.6.2.3	G													
			SD-08 Manufacturer’s Instructions															
			Building Protector Assembly	2.2.1	G													
			Installation															
			Cable Tensions	3.1.7.1	G													
			Fiber Optic Splices	3.1.8.2	G													
			SD-09 Manufacturer’s Field															
			Reports															
			Factory Reel Test Data	2.13.1	G													
			SD-10 Operation and Maintenance															
			Data															
			Telecommunications Outside	1.6.1.1	G													
			Plant (OSP)															
			SD-11 Closeout Submittals															
			Record Documentation	1.8.1	G													

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		23 11 20	SD-02 Shop Drawings															
			Gas Piping System	1.5.1	G													
			Gas Piping System	2.2	G													
			Gas Piping System	3.2	G													
			SD-03 Product Data															
			Pipe and Fittings	2.1	G													
			Gas Equipment Connectors	1.5.1	G													
			Gas Piping System	1.5.1	G													
			Gas Piping System	2.2	G													
			Gas Piping System	3.2	G													
			Pressure Regulators	2.5	G													
			Valves	2.3	G													
			SD-06 Test Reports															
			Testing	3.17	G													
			Pressure Tests	3.17.1	G													
			Test with Gas	3.17.2	G													
			SD-10 Operation and Maintenance															
			Data															
			Gas Facility System and	1.3.1	G													
			Equipment Operation															
			Gas Facility System Maintenance	1.3.2	G													
			Gas Facility Equipment	1.3.3	G													
			Maintenance															

SECTION 23 11 20

FACILITY GAS PIPING
05/20

PART 1 GENERAL

1.1 SUMMARY

This specification section applies to gas piping installed within buildings incidental underground piping under building, above ground steel piping and corrugated stainless steel tubing (CSST) both outside (up to 5 feet beyond exterior walls) and within buildings in compliance with NFPA 54 /AGA Z223.1, "National Fuel Gas Code" , "Fuel Gas Piping".

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN GAS ASSOCIATION (AGA)

AGA ANSI B109.4	(2016) Self-Operated Diaphragm-Type Natural Gas Service Regulators for Nominal Pipe Size 1¼ inches (32 mm) and Smaller with Outlet Pressures of 2 psig (13.8 kPa) and Less
AGA XR0603	(2006; 8th Ed) AGA Plastic Pipe Manual for Gas Service
AGA Z223.1	(2012) National Fuel Gas Code

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI Z21.15/CSA 9.1	(2009; Addenda A 2012, Addenda B 2013; R 2019) Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves
ANSI Z21.18/CSA 6.3	(2007; R 2017) Gas Appliance Pressure Regulators
ANSI Z21.21/CSA 6.5	(2015) Automatic Valves for Gas Appliances
ANSI Z21.24/CSA 6.10	(2015; Errata 2017) Connectors for Gas Appliances
ANSI Z21.41/CSA 6.9	(2014; R 2019) Quick-Disconnect Devices for Use with Gas Fuel Appliances
ANSI Z21.69/CSA 6.16	(2009; Addenda A 2012; R 2014) Connectors for Movable Gas Appliances
ANSI Z21.80/CSA 6.22	(2019) Line Pressure Regulators

ANSI Z21.93/CSA 6.30	(2017) Excess Flow Valves for Natural Gas and Propane Gas with Pressures up to 5 psig

AMERICAN PETROLEUM INSTITUTE (API)

API RP 2003	(2015; 8th Ed) Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents
API Std 598	(2009) Valve Inspecting and Testing
API Std 607	(2016) Fire Test for Quarter-turn Valves and Valves Equipped with Non-metallic Seats

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)

ASCE 25-16	(2016) Earthquake-Activated Automatic Gas Shutoff Devices

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ASME A13.1	(2020) Scheme for the Identification of Piping Systems
ASME B1.1	(2003; R 2018) Unified Inch Screw Threads (UN and UNR Thread Form)
ASME B1.20.1	(2013; R 2018) Pipe Threads, General Purpose (Inch)
ASME B16.3	(2021) Malleable Iron Threaded Fittings, Classes 150 and 300
ASME B16.5	(2020) Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24 Metric/Inch Standard
ASME B16.9	(2018) Factory-Made Wrought Buttwelding Fittings
ASME B16.11	(2016) Forged Fittings, Socket-Welding and Threaded
ASME B16.21	(2021) Nonmetallic Flat Gaskets for Pipe Flanges
ASME B16.33	(2012; R 2017) Manually Operated Metallic Gas Valves for Use in Gas Piping Systems Up to 125 psi, (Sizes NPS 1/2 - NPS 2)
ASME B16.39	(2020) Standard for Malleable Iron Threaded Pipe Unions; Classes 150, 250, and 300
ASME B18.2.1	(2012; Errata 2013) Square and Hex Bolts and Screws (Inch Series)
ASME B18.2.2	(2015) Nuts for General Applications: Machine Screw Nuts, Hex, Square, Hex Flange, and Coupling Nuts (Inch Series)

ASME B31.8	(2018; Supplement 2018) Gas Transmission and Distribution Piping Systems
ASME BPVC SEC VIII D1	(2019) BPVC Section VIII-Rules for Construction of Pressure Vessels Division 1

ASTM INTERNATIONAL (ASTM)

ASTM 01.01	(2019) Steel - Piping, Tubing, Fittings
ASTM A53/A53M	(2020) Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
ASTM A193/A193M	(2020) Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service and Other Special Purpose Applications
ASTM A194/A194M	(2018) Standard Specification for Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High-Pressure or High-Temperature Service, or Both
ASTM A513/A513M	(2019) Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing
ASTM F2015	(2000; R 2013) Standard Specification for Lap Joint Flange Pipe End Applications

CSA GROUP (CSA)

ANSI LC 1/CSA 6.26	(2019) Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)

FM GLOBAL (FM)

FM APP GUIDE	(updated on-line) Approval Guide http://www.approvalguide.com/

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY (MSS)

MSS SP-25	(2018) Standard Marking System for Valves, Fittings, Flanges and Unions
MSS SP-58	(2018) Pipe Hangers and Supports - Materials, Design and Manufacture, Selection, Application, and Installation

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 54	(2021) National Fuel Gas Code
NFPA 58	(2020) Liquefied Petroleum Gas Code
NFPA 70	(2020; ERTA 20-1 2020; ERTA 20-2 2020;

ERTA 20-3 2020; TIA 20-1; TIA 20-2; TIA 20-3; TIA 20-4; TIA 20-5; TIA 20-6; TIA 20-7; TIA 20-8; TIA 20-9; TIA 20-10; TIA 20-11; TIA 20-12; TIA 20-13; TIA 20-14; TIA 20-15; TIA 20-16; ERTA 20-4 2022) National Electrical Code

SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)

SMACNA 1981	(2008) Seismic Restraint Manual Guidelines for Mechanical Systems, 3rd Edition

U.S. DEPARTMENT OF DEFENSE (DOD)

MIL-STD-101	(2014; Rev C) Color Code for Pipelines and for Compressed Gas Cylinders

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

49 CFR 192	Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards

UNDERWRITERS LABORATORIES (UL)

UL FLAMMABLE & COMBUSTIBLE	(2012) Flammable and Combustible Liquids and Gases Equipment Directory

1.3 SYSTEM DESCRIPTION

The gas piping system includes natural gas piping and appurtenances from point of connection with supply system, as indicated, to gas operated equipment within the facility. Submit operation and maintenance data in accordance with Section 01 78 23 OPERATION AND MAINTENANCE DATA, in three separate packages. Section 23 03 00.00 20 BASIC MECHANICAL MATERIALS AND METHODS applies to this section, with additions and modifications specified herein. Provide cathodically protected insulating joints connecting aboveground piping from the meter to the building, with lightning arrestors conforming to API RP 2003, installed where indicated.

1.3.1 Gas Facility System and Equipment Operation

Include shop drawings showing piping layout, locations of system valves, gas line markers and cathodic protection system; step-by-step procedures for system start up, operation and shutdown (index system components and equipment to the system drawings); isolation procedures including valve operation to shutdown or isolate each section of the system (index valves to the system maps and provide separate procedures for normal operation and emergency shutdown if required to be different). Submit Data package No. 4.

1.3.2 Gas Facility System Maintenance

Include maintenance procedures and frequency for system and equipment; identification of pipe materials and manufacturer by locations, pipe repair procedures, and jointing procedures at transitions to other piping material or material from a different manufacturer. Submit Data Package No.4.

1.3.3 Gas Facility Equipment Maintenance

Include identification of valves, shut-offs, disconnects, and other equipment by materials, manufacturer, vendor identification and location; maintenance procedures and recommended tool kits for valves and equipment; recommended repair methods (i.e., field repair, factory repair, or replacement) for each valve and piece of equipment; and preventive maintenance procedures, possible failure modes and troubleshooting guide. Submit Data Package No. 3.

1.4 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. Submittals with an "S" are for inclusion in the Sustainability eNotebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Gas Piping System; G

SD-03 Product Data

Pipe and Fittings; G

Gas Equipment Connectors; G

Gas Piping System; G

Pressure Regulators; G

Valves; G

SD-06 Test Reports

Testing; G

Pressure Tests; G

Test with Gas; G

SD-07 Certificates

SD-08 Manufacturer's Instructions

SD-10 Operation and Maintenance Data

Gas Facility System and Equipment Operation; G

Gas Facility System Maintenance; G

Gas Facility Equipment Maintenance; G

1.5 QUALITY ASSURANCE

Submit manufacturer's descriptive data and installation instructions for approval for compression-type mechanical joints used in joining dissimilar materials and for insulating joints. Mark all valves, flanges and fittings in accordance with MSS SP-25.

1.5.1 Shop Drawings

Submit drawings for complete Gas Piping System, within 30 days of contract award, showing location, size and all branches of pipeline; location of all required shutoff valves; and instructions necessary for the installation of gas equipment connectors and supports.

PART 2 PRODUCTS

2.1 MATERIALS AND EQUIPMENT

Provide materials and equipment which are the standard products of a manufacturer regularly engaged in the manufacture of the products and that essentially duplicate items that have been in satisfactory use for at least 2 years prior to bid opening. Asbestos or products containing asbestos are not allowed. Submit catalog data and installation instructions for pipe, valves, all related system components, pipe coating materials and application procedures. Conform to NFPA 54 and with requirements specified herein. Provide supply piping to appliances or equipment at least as large as the inlets thereof. Provide pipe and fittings submittal data.

2.2 GAS PIPING SYSTEM AND FITTINGS

2.2.1 Steel Pipe, Joints, and Fittings

a. Pipe: Black carbon steel in accordance with ASTM A53/A53M, Schedule 40 , threaded ends for sizes 2 inches and smaller; otherwise, plain end beveled for butt welding.

b. Threaded Fittings: ASME B16.3, black malleable iron.

c. Socket-Welding Fittings: ASME B16.11, forged steel.

d. Butt-Welding Fittings: ASME B16.9, with backing rings of compatible material.

e. Unions: ASME B16.39, black malleable iron.

f. Flanges and Flanged Fittings: ASME B16.5 steel flanges or convoluted steel flanges conforming to ASME BPVC SEC VIII D1, with flange faces having integral grooves of rectangular cross sections which afford containment for self-energizing gasket material.

2.2.2 Steel Tubing, Joints and Fittings

Provide steel tubing conforming to ASTM 01.01, and ASTM A513/A513M, with tubing joints made up with gas tubing fittings recommended by the tubing manufacturer.

2.2.3 Sealants for Steel Pipe Threaded Joints

Provide joint sealing compound as listed in UL FLAMMABLE & COMBUSTIBLE, Class 20 or less. For taping, use tetrafluoroethylene tape conforming to UL FLAMMABLE & COMBUSTIBLE.

2.2.4 Flange Gaskets

Provide gaskets of nonasbestos compressed material in accordance with ASME B16.21, 1/16 inch thickness, full face or self-centering flat ring type, containing aramid fibers bonded with styrene butadiene rubber (SBR) or nitrile butadiene rubber (NBR) suitable for a maximum 600 degree F service, to be used for hydrocarbon service.

2.2.5 Pipe Threads

Provide pipe threads conforming to ASME B1.20.1.

2.2.6 Escutcheons

Provide chromium-plated steel or chromium-plated brass escutcheons, either one piece or split pattern, held in place by internal spring tension or set screw.

2.2.7 Insulating Pipe Joints

2.2.7.1 Insulating Joint Material

Provide insulating joint material between flanged or threaded metallic pipe systems where shown to control galvanic or electrical action.

2.2.7.2 Threaded Pipe Joints

Provide threaded pipe joints of steel body nut type dielectric unions with insulating gaskets.

2.2.7.3 Flanged Pipe Joints

Provide joints for flanged pipe consisting of full face sandwich-type flange insulating gasket of the dielectric type, insulating sleeves for flange bolts, and insulating washers for flange nuts. Provide lap joint flange pipe ends conforming to ASTM F2015.

2.2.8 Flexible Connectors

a. Provide flexible connectors for connecting gas utilization equipment to building gas piping conforming to ANSI Z21.24/CSA 6.10 or ANSI Z21.41/CSA 6.9 for quick disconnect devices, and flexible connectors for movable food service equipment conforming to ANSI Z21.69/CSA 6.16.

b. Do not install the flexible connector through the appliance cabinet face. Provide rigid metallic pipe and fittings to extend the final connection beyond the cabinet, except when appliance is provided with an external connection point.

2.3 VALVES

Provide lockable shutoff or service isolation valves as indicated in the drawings conforming to the following:

2.3.1 Valves 2 Inches and Smaller

Provide valves 2 inches and smaller conforming to ASME B16.33 of materials and manufacture compatible with system materials used.

2.4 PIPE HANGERS AND SUPPORTS

Provide pipe hangers and supports conforming to MSS SP-58.

2.5 LINE AND APPLIANCE REGULATORS AND SHUTOFF VALVES

Provide regulators conforming to ANSI Z21.18/CSA 6.3 for appliances , and ANSI Z21.80/CSA 6.22 for line pressure regulators. Provide shutoff valves conforming to ANSI Z21.15/CSA 9.1 for manually controlled gas shutoff valves and ANSI Z21.21/CSA 6.5 for automatic shutoff valves for gas appliances.

2.6 NATURAL GAS SERVICE

2.6.1 Service Regulators

a. Provide ferrous bodied pressure regulators for individual service lines, capable of reducing distribution line pressure to pressures required for users. Provide service regulators conforming to AGA ANSI B109.4 CGA-6.18-M95 with full capacity internal relief and overpressure shutoff. Set pressure relief at a lower pressure than would cause unsafe operation of any connected user.

b. Adjust regulators for liquified petroleum gas to 2.5 to 3 kPa 10 to 12 inches of water column, with pressure relief set at 4 kPa 16 inches of water column.

c. Provide regulator(s) having a single port with orifice diameter no greater than that recommended by the manufacturer for the maximum gas flow rate at the regulator inlet pressure. Provide regulator valve vent of resilient materials designed to withstand flow conditions when pressed against the valve port, capable of regulating downstream pressure within limits of accuracy and limiting the buildup of pressure under no-flow conditions to 50 percent or less of the discharge pressure maintained under flow conditions. Provide a self-contained service regulator, and pipe not exceeding exceed 2 inch size.

2.7 SEISMIC PROVISIONS

Provide earthquake automatic gas shutoff valve conforming to ASCE 25-16, SMACNA 1981 or excess flow valve (EFV) conforming with ANSI Z21.93/CSA 6.30 and UL listed or AGA listed or International Association of Plumbing and Mechanical Officials (IAPMO) listed. The earthquake valve may be either pendulum or ball construction with remote electronic actuator. The EFV may be either a bypass (automatic reset) or a non-bypass type (manual reset).

2.8 AUTOMATIC GAS SHUT-OFF

Provide low pressure automatic gas shutoff or excess flow valve (EFV) downstream of the point of delivery after the meter/regulator conforming to ANSI Z21.93/CSA 6.30 and UL listed or CSA listed or International Association of Plumbing and Mechanical Officials (IAPMO) listed. The EFV may be either a bypass (automatic reset) or a non-bypass type (manual reset).

2.9 BOLTING (BOLTS AND NUTS)

Stainless steel bolting; ASTM A193/A193M, Grade B8M or B8MA, Type 316, for bolts; and ASTM A194/A194M, Grade 8M, Type 316, for nuts. Dimensions of bolts, studs, and nuts must conform with ASME B18.2.1 and ASME B18.2.2 with coarse threads conforming to ASME B1.1, with Class 2A fit for bolts and studs and Class 2B fit for nuts. Bolts or bolt-studs must extend through the nuts and may have reduced shanks of a diameter not less than the diameter at root of threads. Bolts must have American Standard regular square or heavy hexagon heads; nuts must be American Standard heavy semifinished hexagonal.

2.10 GASKETS

Fluorinated elastomer, compatible with flange faces.

2.11 IDENTIFICATION FOR ABOVEGROUND PIPING

MIL-STD-101 for legends and type and size of characters. For pipes 3/4 inch od and larger, provide printed legends to identify contents of pipes and arrows to show direction of flow. Color code label backgrounds to signify levels of hazard. Make labels of plastic sheet with pressure-sensitive adhesive suitable for the intended application. For pipes smaller than 3/4 inch od, provide brass identification tags 1 1/2 inches in diameter with legends in depressed black-filled characters.

PART 3 EXECUTION

3.1 EXAMINATION

After becoming familiar with all details of the work, verify all dimensions in the field, and advise the Contracting Officer of any discrepancy or areas of conflict before performing the work.

3.2 GAS PIPING SYSTEM

Provide a gas piping system from the point of delivery, defined as the outlet of the meter set assembly , as specified under "Gas Service" within this specification, to the connections to each gas utilization device that is in compliance with NFPA 54..

3.2.1 Protection and Cleaning of Materials and Components

Protect equipment, pipe, and tube openings by closing with caps or plugs during installation. At the completion of all work, thoroughly clean the entire system.

3.2.2 Workmanship and Defects

Piping, tubing and fittings must be clear and free of cutting burrs and

defects in structure or threading and must be thoroughly brushed and chip-and scale-blown. Repair of defects in piping, tubing or fittings is not allowed; replace defective items when found.

3.3 PROTECTIVE COVERING

3.3.1 Aboveground Metallic Piping Systems

3.3.1.1 Ferrous Surfaces

Touch up shop primed surfaces with ferrous metal primer. Solvent clean surfaces that have not been shop primed . Mechanically clean surfaces that contain loose rust, loose mill scale and other foreign substances by power wire brushing and prime with ferrous metal primer or vinyl type wash coat. Finish primed surfaces with two coats of exterior oil paint or vinyl paint.

3.4 INSTALLATION

Install the gas system in conformance with the manufacturer's recommendations and applicable provisions of NFPA 54 and AGA XR0603, and as indicated. Perform all pipe cutting without damage to the pipe, with an approved type of mechanical cutter, unless otherwise authorized. Use wheel cutters where practicable. On steel pipe 6 inches and larger, an approved gas cutting and beveling machine may be used. Cut thermoplastic and fiberglass pipe in accordance with AGA XR0603.

3.4.1 Metallic Piping Installation

Bury underground piping a minimum of 18 inches below grade. Make changes in direction of piping with fittings only; mitering or notching pipe to form elbows and tees or other similar type construction is not permitted. Branch connection may be made with either tees or forged branch outlet fittings. Provide branch outlet fittings which are forged, flared for improvement of flow where attached to the run, and reinforced against external strains. Do not use aluminum alloy pipe in exterior locations or underground.

3.4.2 Concealed Piping in Buildings

Do not use combinations of fittings (unions, tubing fittings, running threads, right- and left-hand couplings, bushings, and swing joints) to conceal piping within buildings.

3.4.2.1 Piping and Tubing in Partitions

Locate concealed piping and tubing in hollow, rather than solid, partitions. Protect tubing passing through walls or partitions against physical damage both during and after construction, and provide appropriate safety markings and labels. Provide protection of concealed pipe and tubing in accordance with ANSI LC 1/CSA 6.26.

3.4.3 Aboveground Piping

Run aboveground piping as straight as practicable along the alignment and elevation indicated, with a minimum of joints, and separately supported from other piping system and equipment. Install exposed horizontal piping no farther than 6 inches from nearest parallel wall and at an elevation which prevents standing, sitting, or placement of objects on the piping.

3.4.4 Final Gas Connections

Unless otherwise specified, make final connections with rigid metallic pipe and fittings. In addition to cautions listed in instructions required by ANSI standards for flexible connectors, insure that flexible connectors do not pass through equipment cabinet. Provide accessible gas shutoff valve and coupling for each gas equipment item.

3.4.5 Seismic Requirements

Support and brace piping and attached valves to resist seismic loads in conformance with ASCE 25-16. CSST tubing and fittings that are seismically qualified in accordance with the FM APP GUIDE: Flexible Piping Systems for Flammable Gases must meet the seismic requirements in accordance with the manufacturer's installation instructions.

3.5 PIPE JOINTS

Design and install pipe joints to effectively sustain the longitudinal pull-out forces caused by contraction of the piping or superimposed loads.

3.5.1 Threaded Metallic Joints

Provide threaded joints in metallic pipe with tapered threads evenly cut and made with UL approved graphite joint sealing compound for gas service or tetrafluoroethylene tape applied to the male threads only. Threaded joints up to 1-1/2 inches in diameter may be made with approved tetrafluoroethylene tape. Threaded joints up to 2 inches in diameter may be made with approved joint sealing compound. After cutting and before threading, ream pipe and remove all burrs. Caulking of threaded joints to stop or prevent leaks is not permitted.

3.5.2 Welded Metallic Joints

Conform beveling, alignment, heat treatment, and inspection of welds to NFPA 54. Remove weld defects and make repairs to the weld, or remove the weld joints entirely and reweld. After filler metal has been removed from its original package, protect and store so that its characteristics or welding properties are not affected adversely. Do not use electrodes that have been wetted or have lost any of their coating.

3.5.3 Solder or Brazed Joints

Make all joints in metallic tubing and fittings with materials and procedures recommended by the tubing supplier. Braze joints with material having a melting point above 1000 degrees F, containing no phosphorous.

3.5.4 Press Connections

Make press connections in accordance with manufacturer's installation instructions using tools approved by the manufacturer. Fully insert the tubing into the fitting and then mark at the shoulder of the fitting. Check the fitting alignment against the mark on the tubing to assure the tubing is fully inserted before the joint is pressed.

3.6 PIPE SLEEVES

Provide pipes passing through concrete or masonry walls or concrete floors

or roofs with pipe sleeves fitted into place at the time of construction. Do not install sleeves in structural members except where indicated or approved. Make all rectangular and square openings as detailed. Extend each sleeve through its respective wall, floor or roof, and cut flush with each surface, except in mechanical room floors not located on grade where clamping flanges or riser pipe clamps are used. Extend sleeves in mechanical room floors above grade at least 4 inches above finish floor. Unless otherwise indicated, use sleeves large enough to provide a minimum clearance of 1/4 inch all around the pipe. Provide steel pipe for sleeves in bearing walls, waterproofing membrane floors, and wet areas . Provide sleeves in nonbearing walls, floors, or ceilings of steel pipe, galvanized sheet metal with lock-type longitudinal seam, or moisture-resistant fiber or plastic. For penetrations of fire walls, fire partitions and floors which are not on grade, seal the annular space between the pipe and sleeve with fire-stopping material and sealant that meet the requirement of Section 07 84 00 FIRESTOPPINGG.

3.7 PIPES PENETRATING WATERPROOFING MEMBRANES

Install pipes penetrating waterproofing membranes as specified in Section 22 00 00 PLUMBING, GENERAL PURPOSE.

3.8 FIRE SEAL

Fire seal all penetrations of fire rated partitions, walls and floors in accordance with Section 07 84 00 FIRESTOPPING.

3.9 ESCUTCHEONS

Provide escutcheons for all finished surfaces where gas piping passes through floors, walls, or ceilings except in boiler, utility, or equipment rooms.

3.10 SPECIAL REQUIREMENTS

Provide drips, grading of the lines, freeze protection, and branch outlet locations as shown and conforming to the requirements of NFPA 54.

3.11 BUILDING STRUCTURE

Do not weaken any building structure by the installation of any gas piping. Do not cut or notch beams, joists or columns. Attach piping supports to metal decking. Do not attach supports to the underside of concrete filled floors or concrete roof decks unless approved by the Contracting Officer.

3.12 PIPING SYSTEM SUPPORTS

Support gas piping systems in buildings with pipe hooks, metal pipe straps, bands or hangers suitable for the size of piping or tubing. Do not support any gas piping system by other piping. Conform spacing of supports in gas piping and tubing installations to the requirements of NFPA 54. Conform the selection and application of supports in gas piping and tubing installations to the requirements of MSS SP-58. In the support of multiple pipe runs on a common base member, use a clip or clamp where each pipe crosses the base support member. Spacing of the base support members is not to exceed the hanger and support spacing required for any of the individual pipes in the multiple pipe run. Rigidly connect the clips or clamps to the common base member. Provide a clearance of 1/8 inch

between the pipe and clip or clamp for all piping which may be subjected to thermal expansion.

3.13 ELECTRICAL BONDING AND GROUNDING

Provide a gas piping system within the building that is electrically continuous and bonded to a grounding electrode as required by NFPA 54, NFPA 58, and NFPA 70.

3.14 SHUTOFF VALVE

Install the main gas shutoff valve controlling the gas piping system to be easily accessible for operation, as indicated, protected from physical damage, and marked with a metal tag to clearly identify the piping system controlled. Install valves approximately at locations indicated. Orient stems vertically, with operators on top, or horizontally. Provide stop valve on service branch at connection to main and shut-off valve on riser outside of building.

3.15 LINE AND APPLIANCE PRESSURE REGULATORS

Install line pressure regulators and appliance regulators in accordance with the manufacturer's requirements and in accordance with NFPA 54. Install each regulator in an accessible location and install shutoff valves ahead of each line and appliance regulator to allow for maintenance. Where vent limiting devices are not included in the regulators, install a vent pipe to the exterior of the building. Terminate all service regulator vents and relief vents in the outside air in rain and insect resistant fittings. Locate the open end of the vent where gas can escape freely into the atmosphere, away from any openings into the building and above areas subject to flooding.

3.16 GAS SERVICE INSTALLATION

Installations must be in accordance with 49 CFR 192 and ASME B31.8. Contractor must submit and use only tested and approved work procedures. Contractor must use only welders and jointers who have been recently qualified by training and test for joining and installing the gas pipe material used on this job. The finished product must be inspected by a person qualified to inspect joints made by the particular procedures used to make joints.

3.17 TESTING

Submit test procedures and reports in booklet form tabulating test and measurements performed; dated after award of this contract, and stating the Contractor's name and address, the project name and location, and a list of the specific requirements which are being certified. Test entire gas piping system to ensure that it is gastight prior to putting into service. Prior to testing, purge the system, clean, and clear all foreign material. Test each joint with an approved gas detector, soap and water, or an equivalent nonflammable solution. Inspect and test each valve in conformance with API Std 598 and API Std 607. Complete testing before any work is covered, enclosed, or concealed, and perform with due regard for the safety of employees and the public during the test. Install bulkheads, anchorage and bracing suitably designed to resist test pressures if necessary, and as directed and or approved by the Contracting Officer. Do not use oxygen as a testing medium.

3.17.1 Pressure Tests

Submit test procedures and reports in booklet form tabulating test and measurements performed; dated after award of this contract, and stating the Contractor's name and address, the project name and location, and a list of the specific requirements which are being certified. Before appliances are connected, test by filling the piping systems with air or an inert gas to withstand a minimum pressure of 3 pounds gauge for a period of not less than 10 minutes as specified in NFPA 54 without showing any drop in pressure. Do not use Oxygen for test. Measure pressure with a mercury manometer, slope gauge, or an equivalent device calibrated to be read in increments of not greater than 0.1 pound. Isolate the source of pressure before the pressure tests are made.

3.17.2 Test With Gas

Before turning on gas under pressure into any piping, close all openings from which gas can escape. Immediately after turning on the gas, check the piping system for leakage by using a laboratory-certified gas meter, an appliance orifice, a manometer, or equivalent device. Conform all testing to the requirements of NFPA 54. If leakage is recorded, shut off the gas supply, repair the leak , and repeat the tests until all leaks have been stopped.

3.17.3 Purging

After testing is completed, and before connecting any appliances, fully purge all gas piping. Do not purge piping into the combustion chamber of an appliance. Do not purge the open end of piping systems into confined spaces or areas where there are ignition sources unless the safety precautions recommended in NFPA 54 are followed.

3.17.4 Labor, Materials and Equipment

Furnish all labor, materials and equipment necessary for conducting the testing and purging.

3.18 PIPE COLOR CODE MARKING

Provide color code marking of piping as specified in Section 09 90 00 PAINTS AND COATINGS, conforming to ASME A13.1.

-- End of Section --