

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
P992 FAST Company Training Facility

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	GOVT OR CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS			
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	
		01 11 00	SD-07 Certificates															
			Energy Performance Rating	1.5.1.2														
		01 20 00.00 20	SD-01 Preconstruction Submittals															
			Schedule of Prices	1.3	G													
		01 30 00	SD-01 Preconstruction Submittals															
			Progress and completion pictures	1.2	G													
		01 30 01.00 22	SD-02 Shop Drawings															
			Preliminary (Pre-Final) FF&E and A/V Package		G													
			Final FF&E and A/V Package		G													
			Best Value Determinations	1.3.3	G													
			Audio Visual Package		G													
			SD-07 Certificates															
			Contractor's Interior Designer's Qualifications	1.3.1	G													
			SD-11 Closeout Submittals															
			Interior Photography	3.6	G													
		01 32 17.00 20	SD-01 Preconstruction Submittals															
			Qualifications	1.5	G													
			Baseline Network Analysis	1.3	G													
			Schedule															
			SD-07 Certificates															
			Monthly Network Analysis	1.7.1	G													
			SD-11 Closeout Submittals															
			As-Built Schedule	1.7.2	G													
		01 33 00	SD-01 Preconstruction Submittals															

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		01 33 00	Submittal Register	1.6	G													
		01 33 29.00 20	SD-01 Preconstruction Submittals															
			Preliminary Sustainability Notebook Submittal	1.4.1.1	G													
			Preliminary High Performance and Sustainable Building Checklist	1.4.2.1														
			SD-07 Certificates															
			Third Party Certification (TPC)	1.3.4														
			SD-11 Closeout Submittals															
			Final Sustainability Notebook Submittal	1.4.1.1	G													
			Final High Performance and Sustainable Building (HPSB/NSEDRC) Checklist	1.4.2.1	G													
			Amended Final Sustainability Notebook Submittal	1.4.1.1	G													
			Third Party Certification Plaque and Certificates	3.2.1	G													
		01 35 26	SD-01 Preconstruction Submittals															
			Accident Prevention Plan (APP)	1.7	G													
			Activity Hazard Analysis (AHA)	1.8	G													
			Crane Critical Lift Plan	1.7.1	G													
			Crane Operators	1.6.1.3	G													
			SD-06 Test Reports															
			Notifications and Reports	1.12														
			Accident Reports	1.12.2	G													

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																		(a)
		01 35 26	Crane Reports	1.12.3														
			SD-07 Certificates															
			Confined Space Entry Permit	1.9														
			Hot work permit	1.9														
			License Certificates	1.14														
			Contractor Safety Self-Evaluation Checklist	1.4	G													
			Certificate of Compliance	1.12.4														
			Machinery & Mechanized Equipment Certification Form															
		01 35 40.00 20	SD-01 Preconstruction Submittals															
			Environmental Protection Plan	1.8	G													
			Instructor Qualifications	1.9.1														
			SD-03 Product Data															
			Packaging	2.1.2														
			SD-06 Test Reports															
			Field Quality Control Reports	3.2														
			SD-07 Certificates															
			Environmental Regulatory Requirements	1.6														
			SD-08 Manufacturer's Instructions															
			Material Safety Data Sheets	1.7.1														
			SD-11 Closeout Submittals															
			Training Program	1.9.3														
			Protection of Natural Resources	3.1														
		01 45 00.00 20	SD-01 Preconstruction Submittals															

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		01 45 00.00 20	Construction Quality Control (QC) Plan	1.6.1	G												
			Indoor Air Quality (IAQ) Management Plan	1.17	G												
			Basis of Design and Design Intent														
			SD-05 Design Data														
			Design Review														
			SD-07 Certificates														
			CA Resume	1.5.2.2													
		01 50 00	SD-01 Preconstruction Submittals														
			Construction site plan	1.4	G												
			Traffic control plan	3.3.1	G												
			SD-06 Test Reports														
			Backflow Preventer Tests	2.2.5	G												
			SD-07 Certificates														
			Backflow Tester	1.5.1	G												
			Backflow Preventers	1.5													
		01 57 13.00 22	SD-01 Preconstruction Submittals														
			Construction Sequence Schedule	1.4	G												
			Erosion Control Plan	1.5	G												
			SD-03 Product Data														
			Filter Barriers	2.1													
			Sediment Fence	2.2													
			Dust Suppressors	2.7													
			Erosion Control Matting	2.9													

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		01 57 13.00 22	Filter Fabric	2.6.1.2													
		01 58 00	SD-02 Shop Drawings preliminary drawing indicating layout and text content	1.4.1	G												
			Sign Legend Orders		G												
		01 78 24.00 20	SD-10 Operation and Maintenance Data														
			Training Plan	3.1.1	G												
			Training Outline	3.1.3	G												
			Training Content	3.1.2	G												
			SD-11 Closeout Submittals														
			eOMSI, Preliminary Submittal	1.3.1	G												
			eOMSI, Prefinal Submittal	1.3.2	G												
			eOMSI, Final Submittal	1.3.3	G												
			Validation of Training Completion	3.1.5	G												
		02 41 00	SD-01 Preconstruction Submittals														
			Existing Conditions	1.9	G												
			SD-07 Certificates														
			Demolition Plan	1.2.1	G												
			Notification	1.6	G												
			SD-11 Closeout Submittals														
			Receipts	3.3.4													
		02 82 16.00 20	SD-03 Product Data														
			Local exhaust equipment	3.1.4	G												
			Vacuums	3.1.5	G												
			Respirators	3.1.1.1	G												

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		02 82 16.00 20	Pressure differential automatic recording instrument	3.1.4	G												
			Amended water	1.2.2	G												
			Glovebags	3.1.7	G												
			Material Safety Data Sheets (MSDS) for all materials	1.3.8	G												
			Encapsulants		G												
			SD-06 Test Reports														
			Air sampling results	1.5.5	G												
			Pressure differential recordings for local exhaust system	1.5.6	G												
			Asbestos disposal quantity report	3.3.3.2	G												
			Encapsulation test patches		G												
			Clearance sampling	3.2.5.3	G												
			SD-07 Certificates														
			Asbestos hazard abatement plan	1.3.9	G												
			Testing laboratory	1.3.10	G												
			Private qualified person documentation	1.5.1	G												
			Contractor's license	1.5.4	G												
			Competent person	1.5.2	G												
			Worker's license	1.5.3	G												
			Landfill approval	1.3.11	G												
			Employee training	1.3.3	G												
			Medical certification	1.3.12	G												
			Waste shipment records	1.3.11	G												

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																		(a)
		02 82 16.00 20	Respiratory Protection Program	1.3.6	G													
			Delivery tickets	1.3.11	G													
			Vacuums	3.1.5	G													
			Water filtration equipment	3.1.2.3	G													
			Ventilation systems	3.1.5	G													
			equipment used to contain airborne asbestos fibers	3.1	G													
			encapsulants		G													
			Notifications	1.3.4														
			SD-11 Closeout Submittals															
			Notifications	1.3.4	G													
			Rental equipment	1.6.1	G													
			Respirator program records	1.3.6.1	G													
			Permits and licenses	1.3.4														
			Protective clothing	1.5.7	G													
			decontamination quality control records															
		02 83 13.00 20	SD-01 Preconstruction Submittals															
			Occupational and Environmental Assessment Data Report	1.5.2.3	G													
			Lead Compliance Plan	1.5.2.2	G													
			Competent Person	1.5.1.1	G													
			lead waste management plan	1.5.2.7	G													
			written evidence	3.5.2.1	G													
			Medical Examinations	1.5.2.4	G													
			SD-06 Test Reports															

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		02 83 13.00 20	sampling results	1.5.2.3	G												
			Occupational and Environmental Assessment Data Report	1.5.2.3	G												
			SD-07 Certificates														
			Testing laboratory	1.5.1.2	G												
			Clearance Certification	3.5.1.1	G												
			SD-11 Closeout Submittals														
			hazardous waste manifest	3.5.2.1	G												
			turn-in documents or weight tickets	3.5.2.1	G												
		03 30 00	SD-02 Shop Drawings														
			Reinforcing steel	1.6.2.1													
			SD-03 Product Data														
			Joint sealants	2.4.8													
			Joint filler	2.4.7													
			Cementitious Materials	2.4.1													
			Vapor retarder	2.4.6													
			Reinforcement	2.5													
			Liquid Chemical Floor Hardener	2.6.1													
			Admixtures	2.4.5													
			Waterstops	2.2.1													
			SD-05 Design Data														
			mix design	2.3.1	G												
			SD-06 Test Reports														
			Concrete mix design	1.6.1.1	G												
			Fly ash	1.6.3.1													

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																		(g)
		03 30 00	Pozzolan	1.6.3.1														
			Ground granulated blast-furnace slag	1.6.3.2														
			Aggregates	2.4.3														
			Compressive strength tests	3.13.2.3	G													
			Slump Tests	3.13.2.1														
			Water	2.4.2														
			SD-07 Certificates															
			Reinforcing Bars	2.5.1														
			Field Testing Technician and Testing Agency	1.6.5.2														
		04 20 00	SD-02 Shop Drawings															
			Detail Drawings	1.4.5	G													
			SD-03 Product Data															
			Local/Regional Materials	1.2.1														
			Environmental Data	1.2.2														
			Clay or Shale Brick	2.2	G													
			Cement	2.6.3	G													
			Insulation	2.13	G													
			Cold Weather Installation	1.6.2	G													
			Water-Repellant Admixture	2.7	G													
			SD-04 Samples															
			Clay or Shale Brick	2.2	G													
			Anchors, Ties, and Bar Positioners	2.9	G													
			Expansion-Joint Materials	2.14	G													

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																		(a)
		04 20 00	Joint Reinforcement	2.10	G													
			SD-05 Design Data															
			Pre-mixed Mortar	2.6.4	G													
			Unit Strength Method	1.2.4.1	G													
			SD-06 Test Reports															
			Efflorescence Test	3.24.3	G													
			Field Testing of Mortar	3.24.1	G													
			Field Testing of Grout	3.24.2	G													
			Prism tests	3.24.4	G													
					06													
			Masonry Cement	2.6.3	G													
			Fire-rated CMU		G													
			Masonry Inspector Qualifications	1.4.4	G													
			Single-Wythe Masonry Wall	3.24.5														
			Water Penetration Test															
			SD-07 Certificates															
			Clay or Shale Brick	2.2														
			Concrete Brick															
			Concrete Masonry Units (CMU)	2.3														
			Anchors, Ties, and Bar Positioners	2.9														
			Expansion-Joint Materials	2.14														
			Joint Reinforcement	2.10														
			Masonry Cement	2.6.3														
			Precast Concrete Items	2.4														
			Admixtures for Masonry Mortar	2.6.1														

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		04 20 00	Admixtures for Grout	2.8.1													
			Contamination	1.4.2													
			SD-08 Manufacturer's Instructions														
			Masonry Cement	2.6.3													
			SD-10 Operation and Maintenance														
			Data														
			Plastic Identification	1.2.3													
			Take-Back Program	3.23.2													
		05 12 00	SD-01 Preconstruction Submittals														
			Erection Drawings	1.4.1.1	G												
			SD-02 Shop Drawings														
			Fabrication drawings	1.4.2	G												
			SD-03 Product Data														
			Shop primer	2.5.2													
			Welding electrodes and rods	2.4.1													
			Direct Tension Indicator Washers	2.3.2.3													
			Non-Shrink Grout	2.4.2													
			SD-06 Test Reports														
			Class B coating	2.5.2													
			Bolts, nuts, and washers	2.3													
			Weld Inspection Reports	3.6.1.2													
			SD-07 Certificates														
			Steel	2.2													
			Bolts, nuts, and washers	2.3													
			AISC Erector Quality Certification	1.3													

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		05 12 00	Welding procedures and qualifications	1.4.3.1													
			Welding electrodes and rods	2.4.1													
		05 40 00	SD-02 Shop Drawings														
			Framing Components	1.7.1	G												
			SD-03 Product Data														
			studs,joists	2.1													
			roof trusses	1.5													
			roof trusses	2.1													
			SD-05 Design Data														
			Metal framing calculations	1.7.2	G												
			Roof truss calculations	1.7.2	G												
			SD-07 Certificates														
			Load-bearing cold-formed metal framing and roof trusses														
			Welds	3.1.1													
		06 10 00	SD-03 Product Data														
			Local/Regional Materials	1.11.1													
			Adhesives	2.4.3													
			SD-06 Test Reports														
			Preservative-treated	1.4.3													
			SD-07 Certificates														
			Forest Stewardship Council (FSC) Certification	1.11.2													
			Preservative treatment	1.7													
			SD-11 Closeout Submittals														

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																		(a)
		06 10 00	Local/Regional Materials	1.11.1														
			Adhesives	2.4.3														
			Certified Wood	1.11.2														
		06 20 00	SD-03 Product Data															
			Wood		G													
			SD-07 Certificates															
			Certificates of grade	1.4														
			Certificates of compliance	1.4														
		06 41 16.00 10	SD-02 Shop Drawings															
			Shop Drawings	1.5.2														
			Shop Drawings	2.12														
			; G, NAVFAC ID															
			Installation	3.1														
			SD-03 Product Data															
			Wood Materials	2.1														
			; G, NAVFAC ID															
			Certification	1.5.3														
			SD-04 Samples															
			Plastic Laminates	2.3														
			; G, NAVFAC ID															
			Cabinet Hardware	2.7														
			SD-07 Certificates															
			Quality Assurance	1.5														
			Laminate Clad Casework	3.1														
			SD-11 Closeout Submittals															
			LEED Documentation	1.3.1														

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ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT OR CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		06 61 16	SD-02 Shop Drawings														
			Detail Drawings														
			G, NAVFAC ID														
			Installation	3.1	G												
			SD-03 Product Data														
			Solid polymer material	2.1													
			Qualifications	1.5.1													
			Fabrications	2.3													
			SD-04 Samples														
			Material	2.1													
			G, NAVFAC ID														
			Counter Tops	2.3.6													
			SD-06 Test Reports														
			Solid polymer material	2.1													
			SD-07 Certificates														
			Fabrications	2.3													
			Qualifications	1.5.1													
			SD-10 Operation and Maintenance														
			Data														
			Clean-up	3.2													
			SD-11 Closeout Submittals														
			LEED Documentation	1.3.1													
		07 05 23	SD-01 Preconstruction Submittals														
			Work Plan	1.4	G												
			SD-03 Product Data														
			Thermal Imaging Camera	2.2	G												

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		07 05 23	SD-05 Design Data														
			Envelope Surface Area Calculations		G												
			SD-07 Certificates														
			Pressure Test Agency	1.6.2.1													
			Thermographer Qualifications	1.6.2.2													
			Test Instruments	1.6.3													
			Date Of Last Calibration	1.6.3													
			SD-06 Test Reports														
			Pressure Test Procedures	3.5	G												
			Air Leakage Test Report	3.5.7	G												
			Diagnostic Test Report	3.6.5	G												
		07 11 13	SD-07 Certificates														
			Materials	1.3													
		07 21 13	SD-03 Product Data														
			Block or board insulation	2.1	G												
			Vapor retarder	2.2													
			Pressure sensitive tape	2.3													
			Accessories	2.5													
			SD-08 Manufacturer's Instructions														
			Block or Board Insulation	2.1													
			Adhesive	2.5.1													
		07 21 16	SD-03 Product Data														
			Blanket insulation	2.1													
			Sill sealer insulation	2.2													
			Vapor retarder	2.4													

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		07 21 16	Pressure sensitive tape	2.5													
			Accessories	2.6													
			SD-08 Manufacturer's Instructions														
			Insulation	3.3.1													
		07 22 00	SD-02 Shop Drawings														
			Wood nailers	2.4													
			SD-03 Product Data														
			Fasteners	2.3	G												
			Insulation	2.1	G												
			Recycled materials	2.1.2													
			Local/Regional Materials	1.4.2													
			SD-06 Test Reports														
			Flame spread and smoke developed ratings	1.4.1													
			SD-07 Certificates														
			qualifications	1.3													
			SD-08 Manufacturer's Instructions														
			fasteners	2.3													
			insulation	2.1													
		07 24 00	SD-03 Product Data														
			Thermal insulation	2.4													
			Adhesive														
			Mechanical Fasteners	2.3													
			Accessories	2.10													
			Base coat	2.5													
			Portland cement	2.6													

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		07 24 00	Reinforcing fabric	2.7													
			Finish coat	2.8													
			Joint Sealant	2.11													
			Sealant Primer	2.9													
			Bond breaker	2.12													
			Backer Rod	2.13													
			Insulation Board	1.4.4													
			Warranty	1.7													
			SD-04 Samples														
			Sample Boards		G												
			Mock-up Installation of EIFS	1.2.1.4	G												
			SD-06 Test Reports														
			Abrasion resistance	1.2.3.1													
			Accelerated weathering	1.2.3.2													
			Impact resistance														
			Mildew resistance	1.2.3.3													
			Salt spray resistance	1.2.3.4													
			vapor transmission	1.2.4													
			Absorption-freeze-thaw	1.2.3.6													
			Water penetration	1.2.1.1													
			Water resistance	1.2.3.5													
			Surface Burning Characteristics	1.2.2.1													
			Radiant heat	1.2.2.2													
			substrate	3.1													
			Wind load	1.2.1.2													
			SD-07 Certificates														

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		07 24 00	Qualifications of EIFS Manufacturer	1.4.1													
			Qualification of EIFS Installer	1.4.2													
			Qualification of Sealant Applicator	1.4.3													
			Inspection Check List	3.5.1	G												
			SD-08 Manufacturer's Instructions														
			Installation	3.3													
			SD-10 Operation and Maintenance														
			Data														
			EIFS	1.7													
		07 27 10.00 10	SD-06 Test Reports														
			Design Review Report	1.8	G												
			Testing and Inspection	3.1.3	G												
			SD-07 Certificates														
			Air Barrier Inspector	1.7	G												
		07 60 00	SD-02 Shop Drawings														
			Covering on flat, sloped, or curved surfaces	3.1.21	G												
			Gutters	3.1.17	G												
			Downspouts	3.1.18	G												
			Gravel stops and fascias		G												
			Base flashing	3.1.11	G												
			Counterflashing	3.1.12	G												
			Flashing at roof penetrations	3.1.22	G												
			Reglets	3.1.13	G												

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		07 60 00	Scuppers		G												
			Copings	3.1.25	G												
			Drip edge	3.1.16	G												
			Open valley flashing	3.1.19	G												
			Eave flashing	3.1.20	G												
			SD-11 Closeout Submittals														
			Quality Control Plan	3.5													
		07 61 14.00 20	SD-02 Shop Drawings														
			Roofing	1.2.5	G												
			SD-03 Product Data														
			Roofing panels	2.1	G												
			Attachment clips	2.3													
			Closures	2.4.1													
			Accessories	2.4													
			Fasteners	2.4.2													
			Sealants	2.4.3													
			warranty	1.7	G												
			SD-05 Design Data														
			Design calculations	1.5													
			SD-06 Test Reports														
			Field Inspection	3.6													
			Finish	1.6.6													
			SD-07 Certificates														
			Manufacturer's Technical Representative	1.6.3													
			Installer's Qualifications	1.6.4													

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		07 61 14.00 20	Coil stock	2.1	G												
			SD-08 Manufacturer's Instructions														
			Installation	3.3	G												
			SD-11 Closeout Submittals														
			Information card	3.8													
		07 84 00	SD-02 Shop Drawings														
			Firestopping Materials	2.1	G												
			SD-06 Test Reports														
			Inspection	3.3	G												
			SD-07 Certificates														
			Inspector Qualifications	1.4.2													
			Firestopping Materials	2.1													
			Installer Qualifications	1.4.1	G												
		07 92 00	SD-03 Product Data														
			Sealants	2.1													
			Primers	2.2													
			Bond breakers	2.3													
			Backstops	2.4													
			SD-07 Certificates														
			Sealant	3.3.6													
		08 11 13	SD-02 Shop Drawings														
			Doors	2.1	G												
			Doors	2.1	G												
			Frames	2.6	G												
			Frames	2.6	G												
			Accessories	2.4													

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		08 11 13	Weatherstripping	2.8													
			SD-03 Product Data														
			Doors	2.1	G												
			Frames	2.6	G												
			Accessories	2.4													
			Weatherstripping	2.8													
			SD-04 Samples														
			Factory-applied enamel finish	2.10.4	G												
		08 11 16	SD-02 Shop Drawings														
			Doors, windows and frames	1.5.1	G												
			SD-04 Samples														
			Finish sample	1.5.2.1													
			SD-05 Design Data														
			calculations	1.2.1	G												
			SD-08 Manufacturer's Instructions														
			Doors and frames	2.1													
		08 14 00	SD-02 Shop Drawings														
			Doors	2.1	G												
			SD-03 Product Data														
			Doors	2.1	G												
			Accessories	2.2													
			Water-resistant sealer	2.3.6													
			warranty	1.6													
			Fire resistance rating	2.1.2	G												
			Certification	1.3													
			Local/Regional Materials	1.4													

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		08 14 00	SD-04 Samples														
			Door finish colors	2.3.5.2	G												
			SD-06 Test Reports														
			Cycle-slam	2.4													
			Hinge loading resistance	2.4													
		08 51 13	SD-02 Shop Drawings														
			Windows	2.1	G												
			Fabrication Drawings	1.10													
			SD-03 Product Data														
			Windows	2.1	G												
			Hardware	2.2.8.1	G												
			Fasteners	2.2.3	G												
			Window performance	1.11	G												
			Thermal-Barrier Windows	2.3	G												
			Mullions	2.4	G												
			Screens	2.2.10	G												
			Weatherstripping	2.2.2	G												
			Accessories	2.2.8	G												
			Adhesives	2.2.4													
			Thermal performance	1.11.5													
			Local/Regional Materials	1.7.1													
			Environmental Data														
			SD-04 Samples														
			Finish Sample	1.4.2.1													
			SD-05 Design Data														

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		08 51 13	Structural calculations for deflection	2.1	G													
			Design Analysis	1.4.3	G													
			SD-06 Test Reports															
			Minimum condensation resistance factor	1.4.4														
			Standard Airblast Test	1.11.2.3														
			SD-10 Operation and Maintenance Data															
			Windows	2.1	G													
		08 71 00	SD-02 Shop Drawings															
			Hardware schedule	1.3	G													
			Keying system	2.3.5														
			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	1.3	G													
			SD-11 Closeout Submittals															
			Key Bitting	1.4														
		08 81 00	SD-02 Shop Drawings															
			Installation															
			SD-03 Product Data															
			Insulating Glass	1.6.1														

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		08 81 00	Glazing Accessories														
			Local/Regional Materials	1.5.1													
			SD-04 Samples														
			Insulating Glass	1.6.1													
			SD-07 Certificates														
			Insulating Glass	1.6.1													
			SD-08 Manufacturer's Instructions														
			Setting and sealing materials	2.3													
			Glass setting	3.2													
			SD-11 Closeout Submittals														
			Local/Regional Materials	1.5.1													
		08 91 00	SD-02 Shop Drawings														
			Wall louvers	1.4													
			Wall louvers	1.5													
			SD-03 Product Data														
			Metal Wall Louvers	2.2													
		09 29 00	SD-03 Product Data														
			Cementitious backer units 'G'														
			Glass Mat Water-Resistant														
			Gypsum Tile Backing Board 'G'														
			Water-Resistant Gypsum														
			Backing Board 'G'														
			Glass Mat Covered or Reinforced														
			Gypsum Sheathing 'G'														
			Glass Mat Covered or Reinforced														
			Gypsum Sheathing Sealant 'G'														

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		09 29 00	Accessories	2.1.10													
			Gypsum Board	2.1.1													
			Adhesives	2.1.9													
			Joint Treatment Materials	2.1.7													
			Local/Regional Materials	1.5.1													
			Environmental Data														
			SD-07 Certificates														
			Asbestos Free Materials	2.1	G												
			SD-08 Manufacturer's Instructions														
			Material Safety Data Sheets	2.1													
			SD-10 Operation and Maintenance														
			Data														
			Manufacturer maintenance instructions	2.1													
			Waste Management	3.8													
			SD-11 Closeout Submittals														
			Local/Regional Materials	1.5.1													
			Gypsum Board	2.1.1													
			Adhesives	2.1.9													
		09 30 13	SD-02 Shop Drawings														
			Detail Drawings	3.2													
			G, NAVFAC ID														
			SD-03 Product Data														
			Local/Regional Materials	1.4.1													
			Environmental Data	1.4.2													
			Tile	2.1													

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																		(a)
		09 30 13	Tile	2.1														
			G, NAVFAC ID															
			Setting-Bed	2.3														
			Mortar, Grout, and Adhesive	2.5														
			Reinforcing Wire Fabric	2.3.6														
			SD-04 Samples															
			Tile	2.1														
			G, NAVFAC ID															
			Accessories	2.1														
			Accessories	2.1.6														
			Transition Strips	2.1														
			Transition Strips	2.6														
			Grout	2.5														
			SD-07 Certificates															
			Tile	2.1														
			Mortar, Grout, and Adhesive	2.5														
			SD-08 Manufacturer's Instructions															
			Maintenance Instructions	3.7														
			SD-10 Operation and Maintenance															
			Data															
			Installation	3.2														
			G, NAVFAC ID															
			SD-11 Closeout Submittals															
			Local/Regional Materials	1.4.1														
			LEED Documentation	1.2														
			Tile	2.1														

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																		(g)
		09 30 13	Adhesives	2.5														
		09 51 00	SD-02 Shop Drawings															
			Approved Detail Drawings	1.2														
			SD-03 Product Data															
			Acoustical Ceiling Systems															
			; G, NAVFAC ID															
			SD-04 Samples															
			Acoustical Units	2.1														
			Acoustic Ceiling Tiles	2.1.1														
			: G, NAVFAC ID															
			SD-06 Test Reports															
			Fire Resistive Ceilings															
			Ceiling Attenuation Class and Test	1.2.1														
			SD-07 Certificates															
			Acoustical Units	2.1														
			Acoustic Ceiling Tiles	2.1.1														
		09 65 00	SD-03 Product Data															
			Adhesives	2.13														
			Wall Base	2.9														
			G, NAVFAC ID															
			SD-04 Samples															
			Resilient Flooring and Accessories	2.17														
			G, NAVFAC ID															
			SD-06 Test Reports															

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						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
		09 65 00	Moisture, Alkalinity and Bond Tests	3.3	G												
			SD-08 Manufacturer's Instructions														
			Surface Preparation	3.2	G												
			Installation	3.1	G												
			SD-10 Operation and Maintenance Data														
			Resilient Flooring and Accessories	2.17	G												
			SD-11 Closeout Submittals														
			LEED Documentation	1.3.1													
		09 67 23.13	SD-02 Shop Drawings														
			Installation Drawings	1.3.1	G												
			Fabrication Drawings	1.3.1	G												
			SD-03 Product Data														
			Manufacturer's Catalog Data	1.3.1.1													
			G, NAVFAC ID														
			Cured Urethane Binder														
			Cured Urethane Mortar														
			Undercoat/color Flake Broadcast														
			Surface Sealing Coat														
			SD-04 Samples														
			Hardboard Mounted Epoxy														
			Flooring														
			G, NAVFAC ID														
			SD-05 Design Data														

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		09 67 23.13	Design Mix Data	1.3.1.2													
			G, NAVFAC ID														
			Urethane-Resin Binder/Matrix														
			SD-06 Test Reports														
			Records of Inspection	1.4	G												
			SD-07 Certificates														
			Listing of Product Installations	1.4.1	G												
			Referenced Standards	1.4	G												
			Certificates														
			Warranty		G												
		09 68 00	SD-02 Shop Drawings														
			Installation Drawings	3.4	G												
			Moldings	2.4	G												
			SD-03 Product Data														
			Carpet	2.1													
			G, NAVFAC ID														
			Carpet Cushion														
			Moldings	2.4													
			Physical Characteristics	2.1.1													
			Physical Characteristics	2.1.2													
			Local/Regional Materials	1.2.1													
			Environmental Data	1.2.2													
			SD-04 Samples														
			Carpet	2.1													
			G, NAVFAC ID														
			Moldings	2.4													

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		09 68 00	Carpet Cushion														
			SD-06 Test Reports														
			Moisture and Alkalinity Tests	3.2	G												
			SD-07 Certificates														
			Carpet	2.1													
			Regulatory Requirements	1.5													
			SD-08 Manufacturer's Instructions														
			Surface Preparation	3.1													
			Installation	3.4													
			SD-10 Operation and Maintenance														
			Data														
			Carpet	2.1	G												
			Cleaning and Protection	3.5	G												
			Maintenance Service														
			SD-11 Closeout Submittals														
			LEED Documentation	1.3.1													
			Local/Regional Materials	1.2.1													
		09 69 13	SD-02 Shop Drawings														
			Detailed Installation Drawings	1.5	G												
			SD-03 Product Data														
			Access Flooring System; G														
			SD-04 Samples														
			Finish Flooring	1.7													
			SD-05 Design Data														
			Compliance with ICC-ES AC300	1.2													
			Seismic Calculations	1.2.7													

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		09 69 13	SD-06 Test Reports														
			Factory Tests	2.6													
			Electrical Resistance	3.2.2													
			Field Tests	3.2													
			SD-07 Certificates														
			Access Flooring System	1.2													
			Access Flooring System	2.4													
			SD-11 Closeout Submittals														
			Sustainable Documentation	1.3.1													
		09 72 00	SD-03 Product Data														
			Wallcoverings and Accessories	2.1													
			G, NAVFAC ID														
			Primer and Adhesive	2.3													
			SD-04 Samples														
			Wallcoverings and Accessories	2.1													
			G, NAVFAC ID														
			SD-07 Certificates														
			Wallcoverings and Accessories	2.1													
			SD-08 Manufacturer's Instructions														
			Wallcoverings and Accessories	2.1													
			SD-10 Operation and Maintenance														
			Data														
			Wallcoverings and Accessories	2.1													
			G, NAVFAC ID														
			SD-11 Closeout Submittals														
			LEED Documentation	1.2													

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		09 90 00	SD-02 Shop Drawings														
			Piping identification stencil	3.11													
			SD-03 Product Data														
			Local/Regional Materials	1.9.1													
			Environmental Data	1.9.2													
			Materials	2.1													
			Coating	2.1	G												
			Manufacturer's Technical Data	2.1													
			Sheets														
			Sealant	3.2.5													
			SD-04 Samples														
			Color	1.11	G												
			SD-07 Certificates														
			Applicator's qualifications	1.3													
			Qualification Testing	1.4.1.2	G												
			SD-08 Manufacturer's Instructions														
			Application instructions	3.3.1													
			Mixing	3.7.2													
			Manufacturer's Material Safety	1.7.2													
			Data Sheets														
			SD-10 Operation and Maintenance														
			Data														
			Coatings:	2.1	G												
		09 96 00	SD-01 Preconstruction Submittals														

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
																		(a)
		09 96 00	Material, Equipment and Fixture List	1.2														
			SD-03 Product Data															
			Waterborne Acrylic Intumescent Paint System; G, NAVFAC ID															
			Textured Acrylic Finish System; G, NAVFAC ID															
			SD-04 Samples															
			Color Chips	1.2														
			SD-07 Certificates															
			Waterborne Acrylic Intumescent Paint System															
			Textured Acrylic Finish System	2.1														
		10 10 00	SD-03 Product Data															
			Visual Display Board	1.2	G													
			SD-04 Samples															
			Aluminum	2.1.4	G													
			Porcelain Enamel	2.1.1	G													
			Materials	2.1	G													
			SD-07 Certificates															
			Visual Display Board	1.2														
			SD-11 Closeout Submittals															
			LEED Documentation	1.3.1														
		10 14 00.20	SD-02 Shop Drawings															
			Detail Drawings	1.5.2														
			G, NAVFAC ID															

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		10 14 00.20	SD-03 Product Data														
			Installation	3.1													
			G, NAVFAC ID														
			Warranty	1.7													
			SD-04 Samples														
			Interior Signage	1.5.1													
			G, NAVFAC ID														
			SD-10 Operation and Maintenance														
			Data														
			Approved Manufacturer's	3.1													
			Instructions														
			G, NAVFAC ID														
			Protection and Cleaning	3.1.2	G												
			SD-11 Closeout Submittals														
			LEED Documentation	1.2.1													
		10 21 13	SD-02 Shop Drawings														
			Fabrication Drawings	1.2													
			Installation Drawings	3.2	G												
			SD-03 Product Data														
			Cleaning and Maintenance	1.2													
			Instructions														
			Colors And Finishes	2.6	G												
			Anchoring Devices and	2.1.1													
			Fasteners														
			Hardware and Fittings	2.1.3													
			Brackets	2.1.2													

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		10 21 13	Door Hardware	2.1.4													
			Local/Regional Materials Documentation	1.2.1.1													
			Environmental Data	1.2.1.2													
			Toilet Enclosures	2.2.1													
			Urinal Screens	2.2.2													
			Pilaster Shoes	2.4													
			SD-04 Samples														
			Colors and Finishes	2.6	G												
			Hardware and Fittings	2.1.3													
			Anchoring Devices and Fasteners	2.1.1													
			SD-07 Certificates														
			Warranty	1.7													
			SD-10 Operation and Maintenance Data														
			Plastic Identification	1.2.2													
			SD-11 Closeout Submittals														
			LEED Documentation	1.3.1	G												
			Local/Regional Materials Documentation	1.2.1.1													
			Toilet Enclosures	2.2.1													
			Urinal Screens	2.2.2													
			Pilaster Shoes	2.4													
		10 22 26.13	SD-01 Preconstruction Submittals														
			Manufacturer's Qualifications	1.3.1	G												

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		10 22 26.13	Manufacturer's Sample Warranty	1.3.1													
			Statement of Code Compliance	1.3.1	G												
			Statement of Code Compliance	3.1.1	G												
			Statement of Standards	1.3.1	G												
			Conformity														
			Statement of Standards	3.1.1	G												
			Conformity														
			Verification of Field	1.3.1	G												
			Measurements														
			SD-02 Shop Drawings														
			Fabrication Drawings	1.3.1													
			Accordion Folding Partitions	1.3.1													
			Accordion Folding Partitions	3.1.1													
			Installation Drawings	1.3.1													
			Accordion Folding Partition	3.1.1	G												
			Layouts														
			Suspension System	2.4.2	G												
			Finish Hardware	1.3.2	G												
			Jamb Panels	1.3.2	G												
			Accessories	1.3.2	G												
			SD-03 Product Data														
			Framework	2.4.1													
			Suspension system	2.4.2													
			Finish Hardware	1.3.2													
			Sound Seals and Sweepstrips	1.3.2													
			Covering	2.4.3													

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		10 22 26.13	Ceiling Guard	1.3.2													
			Meeting Posts	1.3.2													
			Jamb Panels	1.3.2													
			Rolling Post	1.3.2													
			Pull-In Latch	1.3.2													
			SD-04 Samples														
			Covering	2.4.3	G												
			SD-06 Test Reports														
			Laboratory Acoustical	2.3.2													
			Requirements														
			Acoustical test														
			SD-07 Certificates														
			Statement of Code Compliance	1.3.1	G												
			Statement of Code Compliance	3.1.1	G												
			Statement of Standards	1.3.1	G												
			Conformity														
			Statement of Standards	3.1.1	G												
			Conformity														
			SD-10 Operation and Maintenance														
			Data														
			Folding partitions	2.1	G												
			SD-11 Closeout Submittals														
			Manufacturer's Guarantee	1.3.3													
		10 26 13	SD-02 Shop Drawings														
			Corner Guards	2.2	G												
			SD-03 Product Data														

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
																		(g)
		10 26 13	Corner Guards G, NAVFAC ID	2.2														
			SD-04 Samples Finish G, NAVFAC ID	2.4														
			SD-06 Test Reports Corner Guards Wall Guards (Bumper Guards) Door Protectors Wall Covering/Panels	2.2														
			SD-07 Certificates Corner Guards Wall Guards (Bumper Guards) Door Protectors Wall Covering/Panels	2.2														
			SD-11 Closeout Submittals LEED Documentation	1.2														
		10 28 13	SD-03 Product Data Finishes Accessory Items G, NAVFAC ID	2.1.2 2.2	G													
			SD-04 Samples Finishes Accessory Items	2.1.2 2.2	G G													
			SD-07 Certificates Accessory Items	2.2														

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		10 28 13	SD-10 Operation and Maintenance Data														
			Electric Hand Dryer	2.2.28													
			G, NAVFAC ID														
			SD-11 Closeout Submittals														
			LEED Documentation	1.2													
		10 51 16	SD-02 Shop Drawings														
			Types	2.1	G												
			Location	1.4	G												
			Installation	3.1													
			Number Plates	2.3.9	G												
			SD-03 Product Data														
			Material	2.2	G												
			Latching Devices	2.3.1													
			Finish	2.1													
			components	2.3	G												
			Assembly	3.1													
			SD-04 Samples														
			Color chips	1.5.1	G												
		12 24 13	SD-02 Shop Drawings														
			Installation	3.3													
			G, NAVFAC ID														
			SD-03 Product Data														
			Window Shades	2.1													
			G, NAVFAC ID														
			SD-04 Samples														

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		12 24 13	Window Shades G, NAVFAC ID	2.1													
			SD-06 Test Reports														
			Window Shades	2.1													
			SD-08 Manufacturer's Instructions														
			Window Shades	2.1													
			SD-10 Operation and Maintenance Data														
			Window Shades	2.1													
			SD-11 Closeout Submittals														
			LEED Documentation	1.3													
		12 48 13.13	SD-03 Product Data														
			Recycled Material Content	2.1													
			G, NAVFAC ID														
			Entrance and Floor Mats	2.2.1	G												
			SD-04 Samples														
			Manufacturer's Standard Color Chart	2.2.1	G												
			Entrance and Floor Mats	2.2.1	G												
		12 93 00	SD-02 Shop Drawings														
			Benches and Chairs	2.5	G												
			SD-03 Product Data														
			Benches and Chairs	2.5													
			SD-04 Samples														
			Finish	2.3.4	G												
			SD-06 Test Reports														

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		12 93 00	Recycled Materials	2.1.12													
			Testing	3.4													
			SD-07 Certificates														
			Primer certificate	1.3.4													
			Powder coatings certificate	1.3.5													
		21 13 13.00 20	SD-02 Shop Drawings														
			Shop Drawings	1.5.2	G												
			SD-03 Product Data														
			Pipe	2.2.1	G												
			Fittings	2.2.1	G												
			Alarm valves	2.2.7	G												
			Valves	2.2.5	G												
			Sprinklers	2.2.4	G												
			Pipe hangers and supports	2.2.6	G												
			Sprinkler Alarm Switches	2.3.1	G												
			Fire department connections	2.2.8	G												
			Mechanical couplings	2.2.1	G												
			Backflow Prevention Assembly	2.2.9	G												
			SD-05 Design Data														
			Hydraulic Calculations	1.3	G												
			SD-06 Test Reports														
			request to schedule Preliminary Tests	3.6	G												
			Preliminary Test Report	3.6	G												
			request to schedule Final Acceptance Test	3.7	G												

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		21 13 13.00 20	Final Acceptance Test Report	3.7	G												
			SD-07 Certificates														
			Inspection by NICET Technician	3.1													
			NICET Technician	1.5.1													
			Sprinkler System Installer	1.5.2	G												
			SD-10 Operation and Maintenance														
			Data														
			Operating and Maintenance	3.8													
			Instructions														
			SD-11 Closeout Submittals														
			As-built drawings	3.7													
			On-site training	3.8													
		22 00 00	SD-03 Product Data														
			Fixtures	2.4													
			Flush valve water closets	2.4.2	G												
			Flush valve urinals	2.4.3	G												
			Countertop lavatories	2.4.5	G												
			Kitchen sinks	2.4.6	G												
			Service sinks	2.4.7	G												
			Drinking-water coolers	2.4.8	G												
			Water heaters	2.9	G												
			Backflow prevention assemblies	3.9.1.1	G												
			Shower Faucets	2.6.2	G												
			SD-06 Test Reports														
			Tests, Flushing and Disinfection	3.9													

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						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)
		22 00 00	Test of Backflow Prevention Assemblies	3.9.1.1	G												
			SD-07 Certificates														
			Materials and Equipment	1.3													
			Bolts	2.1.1													
			SD-10 Operation and Maintenance Data														
			Plumbing System	3.9.1	G												
		23 00 00	SD-02 Shop Drawings														
			Detail Drawings	1.4.5	G												
			SD-03 Product Data														
			Metallic Flexible Duct	2.9.1.1													
			Insulated Nonmetallic Flexible Duct Runouts	2.9.1.2													
			Duct Connectors	2.9.1.2													
			Duct Access Doors	2.9.2	G												
			Fire Dampers	2.9.3													
			Manual Balancing Dampers	2.9.4	G												
			Diffusers	2.9.6.1													
			Registers and Grilles														
			Louvers	2.9.7													
			Panel Type Power Wall Ventilators	2.10.1.1													
			Centrifugal Type Power Roof Ventilators	2.10.1.2													
			Air Handling Units	2.11	G												

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		23 00 00	Room Fan-Coil Units		G												
			Energy Recovery Devices	2.12	G												
			Test Procedures	1.4.6													
			Diagrams		G												
			SD-06 Test Reports														
			Performance Tests	3.12	G												
			Damper Acceptance Test	3.10	G												
			SD-07 Certificates														
			Bolts	1.4.1													
			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														
			Fire Dampers	2.9.3	G												
			Manual Balancing Dampers	2.9.4	G												
			Panel Type Power Wall	2.10.1.1	G												
			Ventilators														
			Centrifugal Type Power Roof	2.10.1.2	G												
			Ventilators														
			Air Handling Units	2.11	G												

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
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		23 00 00	Room Fan-Coil Units		G												
			Energy Recovery Devices	2.12	G												
		23 05 48.00 40	SD-03 Product Data														
			Isolators														
		23 05 93	SD-01 Preconstruction Submittals														
			Records of Existing Conditions	1.3													
			Records of Existing Conditions	1.3.2													
			TAB Firm	1.5.4.1													
			TAB team assistants	1.2													
			TAB team engineer	1.2													
			TAB Specialist	1.5.4.2													
			TAB team field leader	1.2													
			SD-02 Shop Drawings														
			TAB Schematic Drawings and Report Forms	1.3.2													
			SD-03 Product Data														
			Equipment and Performance Data	1.3													
			TAB Related HVAC Submittals	1.5.4.4													
			TAB Procedures	1.5.2													
			Calibration	1.5.2													
			Systems Readiness Check	1.3.2													
			TAB Execution	1.5.5													
			TAB Verification	1.5.5.3													
			SD-06 Test Reports														

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		23 05 93	DALT and TAB Work Execution Schedule	3.6	G												
			DALT and TAB Procedures Summary	3.6	G												
			Design review report	1.3.2	G												
			Design review report	1.6.2.1	G												
			Design review report	3.6	G												
			Pre-Final DALT report	1.6.2	G												
			Pre-Final DALT report	3.2.5	G												
			Final DALT report	1.6.2	G												
			Final DALT report	3.2.8	G												
			TAB report for Season 1	1.5.6.2	G												
			TAB report for Season 1	3.6	G												
			TAB report for Season 2	1.5.6.2	G												
			TAB report for Season 2	3.6	G												
			SD-07 Certificates														
			Independent TAB agency and personnel qualifications	1.5.1	G												
			Independent TAB agency and personnel qualifications	1.5.1	G												
			Advance notice of Pre-Final DALT field work	3.2.2	G												
			Completed Pre-Final DALT Work Checklist	3.6	G												
			Completed Pre-Final DALT Work Checklist	3.6	G												

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						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	MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		23 05 93	Advance Notice of Season 1 TAB Field Work	3.6	G												
			Completed Season 1 Pre-TAB Work Checklist	3.6													
			Completed Season 1 Pre-TAB Work Checklist	3.6													
			Advance Notice of Season 2 TAB Field Work	3.6	G												
			Completed Season 2 Pre-TAB Work Checklist	3.6													
			Completed Season 2 Pre-TAB Work Checklist	3.6													
			TAB Firm	1.5.4.1													
			DALT and TAB Submittal and Work Schedule	1.6.1													
			DALT and TAB Submittal and Work Schedule	1.6.2													
			Design review report	1.3.2													
			Design review report	1.6.2.1													
			Design review report	3.6													
			Pre-field DALT preliminary notification	1.6.2.2													
			Pre-field TAB engineering report	1.6.2.3													
			Advanced notice for Season 1 TAB field work	1.6.2													

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
																		(a)
		23 05 93	Prerequisite HVAC Work Check Out List For Season 1	1.6.2														
			Advanced notice for Season 2 TAB field work	1.6.2														
			Prerequisite HVAC Work Check Out List For Season 2	1.6.2														
		23 07 00	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													
			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 23.13 20	SD-02 Shop Drawings															
			Control system drawings title sheet	1.4.1.1	G													
			List of I/O Points	1.4.1.2	G													
			Control System Components List	1.4.1.3	G													
			Control system schematics	1.4.1.4	G													
			HVAC Equipment Electrical	1.4.1.5	G													
			Ladder diagrams															

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																		(g)
		23 09 23.13 20	Component wiring diagrams	1.4.1.6	G													
			Terminal strip diagrams	1.4.1.7	G													
			BACnet communication architecture schematic	1.4.1.8	G													
			SD-03 Product Data															
			Direct Digital Controllers	2.1.1	G													
			BACnet Gateways	2.1.1.13	G													
			BACnet Protocol Analyzer	2.1.5	G													
			DDC Software	2.1.2	G													
			BACnet Operator Workstation	2.1.3	G													
			BACnet Operator Workstation	2.1.3.3	G													
			DDC Software															
			Notebook Computer	2.1.4	G													
			Sensors and Input Hardware	2.2	G													
			Output Hardware	2.3	G													
			Surge and transient protection	2.4.2	G													
			Indicators	2.6	G													
			Duct smoke detectors	2.5.1	G													
			SD-05 Design Data															
			Performance Verification Testing Plan	3.4.2	G													
			Pre-Performance Verification Testing Checklist	3.4.4	G													
			SD-06 Test Reports															
			Performance Verification Testing Report	3.4.11	G													

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		23 09 23.13 20	SD-07 Certificates														
			Contractor's Qualifications	1.6.6	G												
			SD-09 Manufacturer's Field Reports														
			Pre-PVT Checklist	3.4.1	G												
			SD-10 Operation and Maintenance Data														
			BACnet Direct Digital Control Systems	1.4	G												
			Controls System Operators Manuals	3.3	G												
			SD-11 Closeout Submittals														
			Training documentation	3.5.1	G												
		23 11 25	SD-02 Shop Drawings														
			Gas Piping System	1.5.1													
			Gas Piping System	2.2													
			Gas Piping System	3.3													
			SD-03 Product Data														
			Pipe and Fittings	1.6.1													
			Gas equipment connectors	1.5.1													
			Gas Piping System	1.5.1													
			Gas Piping System	2.2													
			Gas Piping System	3.3													
			Pipe Coating Materials	2.1													
			Pressure regulators	2.6													
			Risers	2.4													

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		23 11 25	Transition fittings	2.2.8													
			Valves	2.3													
			Warning and identification tape	2.2.4													
			SD-06 Test Reports														
			Testing	3.17													
			Pressure Tests	3.17.1													
			Test With Gas	3.17.2													
			SD-08 Manufacturer's Instructions														
			pipe coating materials	2.1													
			SD-10 Operation and Maintenance														
			Data														
			Gas facility system and equipment operation	1.3.1													
			Gas facility system maintenance	1.3.2													
			Gas facility equipment maintenance	1.3.3													
		23 81 00.00 20	SD-03 Product Data														
			Heat pumps	2.1													
			Filters	2.2													
			Refrigerant piping and accessories	2.4													
			SD-06 Test Reports														
			Salt-spray tests	2.6.1													
			Start-up and initial operational tests	3.8.3													
			SD-08 Manufacturer's Instructions														

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		23 81 00.00 20	Heat pumps	2.1													
			Filters	2.2													
			Refrigerant piping and accessories	2.4													
			SD-10 Operation and Maintenance Data														
			Heat pumps	2.1													
			Filters	2.2													
			SD-11 Closeout Submittals														
			Posted operating instructions	1.4.3													
		23 81 28.10 22	SD-02 Shop Drawings														
			Control system wiring diagrams														
			SD-03 Product Data														
			Indoor Units	2.3	G												
			Outdoor Units	2.1	G												
			Refrigerant Valves	2.2.3	G												
			SD-06 Test Reports														
			Performance Tests	3.2	G												
			SD-08 Manufacturer's Instructions														
			Manufacturers Installation Instructions	3.1													
			Operation and Maintenance Training	3.3													
			SD-10 Operation and Maintenance Data														

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		23 81 28.10 22	Operation and Maintenance Manuals	3.3													
			Indoor Units	2.3	G												
			Outdoor Units	2.1	G												
		23 83 00.00 20	SD-02 Shop Drawings														
			Heater installation drawing	3.1													
			SD-03 Product Data														
			Electric unit and cabinet heaters	2.1													
			Thermostat	2.1.5													
			SD-10 Operation and Maintenance Data														
			Electric unit and cabinet heaters	2.1													
		26 08 00	SD-06 Test Reports														
			Acceptance tests and inspections	3.1	G												
			SD-07 Certificates														
			Qualifications	1.4.1	G												
			Acceptance test and inspections procedure	1.4.3	G												
		26 12 19.10	SD-02 Shop Drawings														
			Pad-mounted transformer drawings	1.5.1	G												
			SD-03 Product Data														
			Pad-mounted transformers	2.2	G												
			SD-06 Test Reports														
			Acceptance checks and tests	3.6.1	G												
			SD-07 Certificates														

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		26 12 19.10	Transformer Efficiencies	2.2.2.1	G												
			SD-09 Manufacturer's Field Reports														
			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												
			SD-11 Closeout Submittals														
			Transformer test schedule	2.7.1	G												
		26 20 00	SD-02 Shop Drawings														
			Panelboards	2.14	G												
			Transformers		G												
			Cable trays	2.4	G												
			Wireways	2.28	G												
			Marking strips	3.1.11.1	G												
			SD-03 Product Data														
			Receptacles	2.13	G												
			Circuit breakers	2.14.3	G												
			Switches	2.11	G												
			Transformers		G												
			Enclosed circuit breakers	2.15	G												
			Motor controllers	2.17	G												
			Manual motor starters	2.18	G												
			Metering	2.29	G												
			Meter base only	2.30	G												

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		26 20 00	CATV outlets	2.21.1	G												
			Grounding Busbar	2.22.3	G												
			Surge protective devices	2.31	G												
			SD-06 Test Reports														
			600-volt wiring test	3.5.2	G												
			Grounding system test	3.5.5	G												
			Transformer tests	3.5.3	G												
			Ground-fault receptacle test	3.5.4	G												
			SD-07 Certificates														
			Fuses	2.12	G												
			SD-09 Manufacturer's Field Reports														
			Transformer factory tests	2.33.1													
			SD-10 Operation and Maintenance Data														
			Electrical Systems	1.5.1	G												
			Metering	2.29	G												
		26 27 14.00 20	SD-02 Shop Drawings														
			Installation Drawings	1.4.1	G												
			SD-03 Product Data														
			Electricity meters	2.1.4	G												
			Current transformer	2.1.3	G												
			communications	2.2	G												
			Configuration Software	3.1.1	G												
			SD-06 Test Reports														
			Acceptance checks and tests	3.2.1	G												

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
																		(g)
		26 27 14.00 20	System functional verification	3.2.2	G													
			Building meter installation sheet, per building	3.2.1	G													
			Completed meter installation schedule	3.2.1	G													
			Completed meter data schedule	3.2.1	G													
			Meter configuration template	2.1.1	G													
			Meter configuration report	3.2.1	G													
			SD-10 Operation and Maintenance Data															
			Electricity Meters and Accessories	1.5.1	G													
			SD-11 Closeout Submittals															
			System functional verification	3.2.2	G													
		26 29 23	SD-02 Shop Drawings															
			Schematic diagrams	1.5.1	G													
			Interconnecting diagrams		G													
			Installation drawings	1.5.3	G													
			SD-03 Product Data															
			Variable frequency drives	2.1	G													
			Equipment schedule	1.5.4	G													
			SD-06 Test Reports															
			VFD Test	3.2.1														
			Performance Verification Tests	3.2.2														
			Endurance Test	3.2.3														
			SD-07 Certificates															

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
																		(a)
		26 29 23	Operating Personnel Training Program; G															
			Engineering Personnel Training Program; G															
			SD-08 Manufacturer's Instructions Installation instructions	1.5.5	G													
			SD-09 Manufacturer's Field Reports															
			VFD Factory Test Plan	2.5.1	G													
			SD-10 Operation and Maintenance Data															
			As-Built Shop Drawings; G Variable frequency drives															
		26 41 00	SD-02 Shop Drawings Lightning Protection System Installation; G Air Terminal Mounting Detail; G Through Roof Connector Installation Detail; G Through Wall Connector Installation Detail; G															
			SD-06 Test Reports Lightning Protection and Grounding System Test Plan	1.4.3	G													
			Lightning Protection and Grounding System Test		G													
			SD-07 Certificates															

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		26 41 00	Master UL label		G												
			Roof manufacturer's warranty	3.1.1	G												
		26 51 00	SD-03 Product Data														
			Fluorescent lighting fixtures	2.1	G												
			Fluorescent electronic ballasts	1.6.1	G												
			Fluorescent lamps	2.1.6	G												
			Metal-halide lamps	2.2.4	G												
			Dimmer switch	2.7.2	G												
			Lighting contactor	2.8	G												
			Time switch	2.9	G												
			Photocell switch	2.10	G												
			Exit signs	2.12	G												
			Emergency lighting equipment	2.13	G												
			Occupancy sensors	2.15	G												
			Electronic dimming ballast	2.1.2	G												
			Dimming ballast controls	2.1.3	G												
			Local/Regional Materials	1.9.1													
			Environmental Data														
			Energy Efficiency	1.6.4.3													
			SD-04 Samples														
			Lighting fixtures		G												
			SD-06 Test Reports														
			Operating test	3.3													
			SD-10 Operation and Maintenance														
			Data														
			Lighting Control System	1.4.1	G												

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		26 51 00	Operational Service	1.8													
		26 56 00	SD-01 Preconstruction Submittals														
			Photometric Plan	1.6.2	G												
			LED Luminaire Warranty	1.8.1	G												
			SD-02 Shop Drawings														
			Luminaire drawings	1.6.1.1	G												
			Poles	1.6.1.2	G												
			SD-03 Product Data														
			HID, , LED Luminaires		G												
			Luminaire Light Sources	2.2.2	G												
			Luminaire Ballasts, Generators and Power Supply Units Drivers		G												
			Lighting contactor	2.3.3	G												
			Time switch	2.3.2	G												
			Lighting Control Relay Panel		G												
			Photocell	2.3.1	G												
			Steel poles	2.4.3	G												
			Brackets	2.5													
			SD-04 Samples														
			HID, LPS, Fluorescent, Induction and LED Luminaires		G												
			SD-05 Design Data														
			Design Data for luminaires	1.6.3	G												
			SD-06 Test Reports														
			LED Luminaire - IES LM-79 Test Report	1.6.4	G												

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		26 56 00	LED Light Source - IES LM-80 Test Report	1.6.5	G													
			Tests for fiberglass poles	1.6.6	G													
			Operating test	3.2														
			SD-07 Certificates															
			Luminaire Useful Life Certificate	1.8.1	G													
			SD-10 Operation and Maintenance Data															
			Operational Service	1.9														
		27 10 00	SD-02 Shop Drawings															
			Telecommunications drawings	1.6.1.1	G													
			Telecommunications Space Drawings	1.6.1.2	G													
			SD-03 Product Data															
			Telecommunications cabling	2.3	G													
			Patch panels	2.4.5	G													
			Telecommunications outlet/connector assemblies	2.5	G													
			Equipment support frame	2.4.2	G													
			Connector blocks	2.4.3	G													
			Spare Parts	1.10.3	G													
			SD-06 Test Reports															
			Telecommunications cabling testing	3.5.1	G													
			SD-07 Certificates															
			Telecommunications Contractor	1.6.2.1	G													

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		27 10 00	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	2.12.1	G												
			SD-10 Operation and Maintenance Data														
			Telecommunications cabling and pathway system	1.10.1	G												
			SD-11 Closeout Submittals														
			Record Documentation	1.10.2	G												
		27 51 16	SD-02 Shop Drawings														
			Detail Drawings	2.1.4	G												
			SD-03 Product Data														
			Spare Parts	1.4													
			SD-06 Test Reports														
			Approved Test Procedures	3.5	G												
			Acceptance Tests	3.5													
			SD-07 Certificates														
			Components	2.2													
			SD-10 Operation and Maintenance Data														
			Radio and Public Address System	2.1													
		27 54 00.00 20	SD-02 Shop Drawings														

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		27 54 00.00 20	wiring diagrams and installation details	1.6.1	G												
			system components	1.4.4	G												
			SD-03 Product Data														
			Attenuators	2.2.2	G												
			Amplifiers	2.3.1	G												
			Cables	2.3.2	G												
			Terminators	2.3.3	G												
			Splitters/combiners	2.3.4	G												
			Line Taps	2.3.5	G												
			Outlets	2.3.6	G												
			Connectors	2.3.7	G												
			Tilt compensator	2.3.8	G												
			Grounding block	2.4.1	G												
			SD-05 Design Data														
			CATV System Loss Calculations	1.6.2	G												
			SD-06 Test Reports														
			Operational test plan	1.6.3	G												
			Operational test procedures	1.6.4	G												
			System pretest	3.2.1	G												
			Acceptance tests	3.2.2	G												
			SD-08 Manufacturer's Instructions														
			Connector Installation	1.6.5	G												
		28 20 00.00 20	SD-02 Shop Drawings														
			ESS components	1.6.1.1	G												
			Overall system schematic	1.6.1.2	G												

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		28 20 00.00 20	SD-03 Product Data														
			Interior point sensors	2.4.14.1	G												
			Interior volumetric sensors	2.4.14.2	G												
			Duress alarms	2.4.14.3	G												
			Card reader	2.4.15.4	G												
			Keypad	2.4.15.4	G												
			Biometric finger print reader	2.4.15	G												
			cable		G												
			Microwave sensors	2.4.14.2	G												
			Radio frequency link	2.4.16.2	G												
			Communications interface	2.4.16	G												
			devices														
			CCTV camera	2.4.17.1	G												
			CCTV lenses	2.4.17.1	G												
			Auxiliary CCTV camera	2.4.17.1	G												
			equipment														
			Video tape recorder	2.4.17.6	G												
			Video, Digital Video Recorder (DVR)	2.4.17.6	G												
			Video, Biometric Iris Scan	2.4.15	G												
			Printer	2.4.18.3	G												
			Uninterruptible power supply (UPS)	2.3.7.2	G												
			Batteries	2.3.7.2	G												
			Graphic map display	2.4.18.1	G												
			Four quadrant multiplexer	2.4.17.6	G												

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		28 20 00.00 20	SD-05 Design Data														
			Backup battery capacity calculations	1.4.1.1	G												
			Probability of Detection Calculations	1.4.1.2													
			SD-06 Test Reports														
			ESS operational test plan	1.6.4	G												
			SD-07 Certificates														
			ESS operational test plan	1.6.4	G												
			Installer's qualifications	1.6.2.1	G												
			Instructor's qualifications	1.6.2.2	G												
			SD-10 Operation and Maintenance Data														
			ESS components	1.6.1.1	G												
			ESS software	1.6.5	G												
			SD-11 Closeout Submittals														
			As-Built drawings	3.3.1	G												
			Posted operating instructions	2.3.5	G												
		28 31 76	SD-02 Shop Drawings														
			Nameplates	2.1.2	G												
			Instructions	2.13.10	G												
			Wiring Diagrams	3.2.1	G												
			System Layout	1.2.1	G												
			System Operation	2.3	G												
			Notification Appliances	2.17	G												
			Amplifiers	2.14	G												

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		28 31 76	SD-03 Product Data														
			Technical Data And Computer Software	1.6	G												
			Fire Alarm Control Unit and Mass Notification Control Unit (FACP)	2.13	G												
			Remote Annunciator	2.15	G												
			Terminal cabinets	3.2.2	G												
			Manual stations	2.16	G												
			Transmitters	2.20	G												
			Batteries	2.12.1	G												
			Battery chargers	2.12.2	G												
			Smoke sensors	2.10	G												
			Notification appliances	2.17	G												
			Addressable interface devices	2.7	G												
			Amplifiers	2.14	G												
			Radio tranceiver		G												
			Digital alarm communicator transmitter (DACT)	2.20.1	G												
			Local Operating Console (LOC)	1.4.4	G												
			SD-05 Design Data														
			Battery power	2.12.1.2	G												
			Battery chargers	2.12.2	G												
			SD-06 Test Reports														
			Field Quality Control	3.5													
			Testing Procedures	3.5.1	G												
			Smoke sensor testing	2.10.3	G												

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																		(a)
		28 31 76	SD-07 Certificates															
			Installer	1.7.1.4														
			Formal Inspection and Tests	3.5.2.2														
			Final Testing	3.5.2.3														
			SD-09 Manufacturer's Field Reports															
			System Operation	2.3	G													
			Fire Alarm/Mass Notification System	1.7.2.2														
			SD-10 Operation and Maintenance Data															
			Operation and Maintenance (O&M) Instructions	3.8	G													
			Instruction of Government Employees	3.6														
			SD-11 Closeout Submittals															
			As-Built Drawings	3.5.2.4														
		31 11 00	SD-03 Product Data															
			Nonsaleable Materials	3.6.2														
			SD-04 Samples															
			Tree wound paint	2.1														
			Herbicide															
		31 23 00.00 20	SD-06 Test Reports															
			Borrow Site Testing	1.6	G													
			Fill and backfill	3.13.2.1														
			Select material	3.13.2.2														

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		31 23 00.00 20	Porous fill	3.13.2.3													
			Density tests	3.13.2.4													
			Moisture Content Tests														
		32 05 33	SD-01 Preconstruction Submittals														
			Integrated Pest Management Plan														
			SD-03 Product Data														
			Fertilizer	2.1													
			SD-07 Certificates														
			Maintenance inspection report	3.4.1													
			SD-10 Operation and Maintenance Data														
			Maintenance	1.7													
			SD-11 Closeout Submittals														
			Tree, staking and guying removal	3.4.3													
		32 10 00	SD-03 Product Data														
			Precast car stops	2.6													
			SD-06 Test Reports														
			Trial batch	1.3.4													
			Mix design	1.3.5													
			Asphalt concrete	2.1													
			Density	3.3.2.2													
			Density	3.3.2.3													
			Thickness	3.3.2.2													
			Thickness	3.3.2.3													
			Straightedge test	3.3.2.2													

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		32 10 00	Pavement Core test															
			SD-07 Certificates															
			mix delivery record	1.3.3														
			Asphalt concrete	2.1														
			Asphalt concrete	2.1														
		32 11 23	SD-03 Product Data															
			Plant, Equipment, and Tools	1.3														
			Waybills and Delivery Tickets															
			SD-06 Test Reports															
			Sampling and Testing	1.5	G													
			Field Density Tests	1.5.2.4	G													
		32 14 13	SD-03 Product Data															
			Product Data		G													
			SD-04 Samples															
			Samples		G													
		32 92 23	SD-03 Product Data															
			Fertilizer; G															
			SD-06 Test Reports															
			Topsoil composition tests; G															
			SD-07 Certificates															
			sods	2.1														
		32 93 00	SD-01 Preconstruction Submittals															
			State Landscape Contractor's License	1.4.3														
			Time Restrictions and Planting Conditions	1.6														

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		32 93 00	SD-03 Product Data														
			Local/Regional Materials														
			Peat	2.3.5													
			Composted Derivatives	2.3.8													
			Rotted Manure	2.3.11													
			Organic Mulch Materials	2.7.2													
			Gypsum	2.3.9													
			Mulch	2.7	G												
			Ground Stakes														
			Hose	2.13.1													
			Fertilizer	2.5													
			Weed control fabric	1.5.2.4	G												
			Root control barrier	1.5.2.4	G												
			Staking Material	2.8.1													
			SD-04 Samples														
			Mulch	2.7	G												
			SD-07 Certificates														
			Forest Stewardship Council (FSC) Certification														
			Nursery certifications	1.4.2													
			Nursery certifications	2.1.1													
			Plastic Identification														
		33 11 00	SD-03 Product Data														
			Piping Materials	2.1.1													
			Water distribution main	2.1													
			Water service line	2.2													

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TITLE AND LOCATION
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						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	MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		33 11 00	Hydrants	2.1.2.4													
			Indicator posts	2.1.2.5													
			Corporation stops	2.2.2.1													
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			Valve boxes	2.2.2.11													
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			SD-07 Certificates														
			Water distribution main	2.1													
			Water service line	2.2													
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			Lining	2.1.1.2													
			hydrants	2.1.2.4													
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			SD-08 Manufacturer's Instructions														
			Delivery, storage, and handling	1.4													
			Installation	3.1.1													
		33 30 00	SD-01 Preconstruction Submittals														
			Existing Conditions	1.6													
			SD-02 Shop Drawings														
			Drawings	1.4.2													
			Precast concrete manhole	2.3.1													
			Metal items	2.3.4													
			Frames, covers, and gratings	2.3.4.1													

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						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
		33 30 00	SD-03 Product Data														
			Pipeline materials	2.1													
			SD-06 Test Reports														
			Reports	2.4													
			SD-07 Certificates														
			Portland Cement	2.2.2													
			Gaskets														
		33 40 01.00 22	SD-02 Shop Drawings														
			Precast concrete structures	2.2.1.1													
			Underground stormwater BMP		G												
			Stormwater quality treatment unit		G												
			Modified stormwater outlet		G												
			structure control														
			SD-03 Product Data														
			Concrete piping	2.1.1													
			High-density polyethylene (HDPE)														
			Polyvinyl chloride (PVC) plastic piping	2.1.2													
			Polyethylene (PE) Corrugated Wall Stormwater Collection Chambers														
			Subsurface drainage piping	2.1.5													
			SD-04 Samples														
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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
																		(a)
		33 40 01.00 22	Pipeline frames, covers, and gratings	2.1														
			Precast concrete structures	2.2.2.1														
		33 71 01	SD-03 Product Data															
			Conductors	2.6	G													
			Insulators	2.5	G													
			Wood Poles	2.2.1														
			Pole top switch	3.1.8	G													
			Cutouts	2.13	G													
			Transformer	2.15	G													
			Metering equipment	2.16	G													
			Meters	2.16.3	G													
			Surge arresters	2.12	G													
			Guy strand	2.8														
			Anchors	2.10														
			SD-06 Test Reports															
			Wood Crossarm Inspection Report	1.5.4														
			Field Test Plan	1.5.4.1	G													
			Field Quality Control	3.6	G													
			Ground resistance test reports	1.5.3	G													
			SD-07 Certificates															
			Wood poles	2.2.1	G													
			Wood crossarms	2.3.1	G													
			Transformer Losses	2.15.1	G													

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						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
		33 71 01	SD-09 Manufacturer's Field Reports														
			routine and other tests	2.20.2	G												
			SD-10 Operation and Maintenance Data														
			Operation and Maintenance Manuals	1.6.1	G												
			SD-11 Closeout Submittals														
			Transformer test schedule	2.20.1	G												
		33 71 02	SD-02 Shop Drawings														
			Aluminum conductors	2.2.1	G												
			Precast underground structures	1.4.1	G												
			SD-03 Product Data														
			Medium voltage cable	2.5	G												
			Medium voltage cable joints	2.7	G												
			Medium voltage cable terminations	2.6	G												
			Live end caps	2.9	G												
			Precast concrete structures	2.14.2.1	G												
			Sealing Material	2.14.2.4													
			Pulling-In Irons	3.5.3													
			Manhole frames and covers	2.14.3	G												
			Handhole frames and covers	2.14.4	G												
			Composite/fiberglass handholes	2.14.8	G												
			Cable supports	2.15	G												
			SD-06 Test Reports														

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						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)
		33 71 02	Medium voltage cable qualification and production tests	2.19.2	G												
			Field Acceptance Checks and Tests	3.20.1	G												
			Arc-proofing test	2.19.1	G												
			Cable Installation Plan and Procedure	3.3	G												
			SD-07 Certificates														
			Cable splicer/terminator	1.4.2	G												
			Cable Installer Qualifications	1.4.3	G												
			Certificate of Conformance	1.4.4	G												
		33 82 00	SD-02 Shop Drawings														
			Telecommunications Outside Plant	1.6.1.1	G												
			Telecommunications Entrance Facility Drawings	1.6.1.2	G												
			SD-03 Product Data														
			Wire and cable	2.8	G												
			Cable splices, and connectors	2.5	G												
			Closures	2.3	G												
			Building protector assemblies	2.2.1	G												
			Protector modules	2.2.2	G												
			Cross-connect terminal cabinets	2.4	G												
			Spare Parts	1.8.2	G												
			SD-06 Test Reports														
			Pre-installation tests	3.5.1	G												

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ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT OR CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		33 82 00	Acceptance tests	3.5.2	G												
			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 installation	2.2.1	G												
			Cable tensions	3.1.8.1	G												
			Fiber Optic Splices	3.1.10.2	G												
			SD-09 Manufacturer's Field Reports														
			Factory Reel Test Data	2.14.1	G												
			SD-10 Operation and Maintenance Data														
			Telecommunications outside plant (OSP)	1.6.1.1	G												
			SD-11 Closeout Submittals														
			Record Documentation	1.8.1	G												

SECTION 05 40 00

COLD-FORMED METAL FRAMING

05/10

PART 1 GENERAL

1.1 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 IRON AND STEEL INSTITUTE (AISI)

AISI S100	(2007; Supp 1: 2009; Supp 2: 2010) North American Specification for the Design of Cold-Formed Steel Structural Members
AISI S200	(2007) North American Standard for Cold-Formed Steel Framing - General Provision
AISI S201	(2007) North American Standard for Cold-Formed Steel Framing - Product Data
AISI S202	(2011) Code of Standard Practice for Cold-formed Steel Structural Framing
AISI S211	(2007) North American Standard for Cold-Formed Steel Framing - Wall Stud Design
AISI S212	(2007) North American Standard for Cold-Formed Steel Framing - Header Design
AISI S213	(2007; Suppl 1 2009) North American Standard for Cold-Formed Steel Framing - Lateral Design
AISI SG02-KIT	(2001; Supp 1 2004) North American Specification for the Design of Cold-Formed Steel Structural Members
AISI SG03-3	(2002; Suppl 2001-2004; R 2008) Cold-Formed Steel Design Manual Set

AMERICAN WELDING SOCIETY (AWS)

AWS D1.1/D1.1M	(2010; Errata 2011) Structural Welding Code - Steel
AWS D1.3/D1.3M	(2008; Errata 2008) Structural Welding Code - Sheet Steel

ASTM INTERNATIONAL (ASTM)

ASTM A1003/A1003M	(2013b) Standard Specification for Steel
-------------------	--

	Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members
ASTM A123/A123M	(2013) Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A153/A153M	(2009) Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM A370	(2012a) Standard Test Methods and Definitions for Mechanical Testing of Steel Products
ASTM A653/A653M	(2011) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
ASTM C1007	(2011a) Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories
ASTM C1513	(2013) Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections
ASTM C955	(2011c) Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases
ASTM E119	(2012a) Standard Test Methods for Fire Tests of Building Construction and Materials
ASTM E329	(2013b) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
ASTM F1941	(2010) Standard Specification for Electrodeposited Coatings on Threaded Fasteners (Unified Inch Screw Threads (UN/UNR))
ASTM F1941M	(2007) Standard Specification for Electrodeposited Coatings on Threaded Fasteners (Metric)

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for Contractor Quality Control approval. The following shall be submitted in accordance with Section

01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Framing Components; G

a. Cross sections, plans, and/or elevations showing component types and locations for each framing application; including shop coatings and material thicknesses for each framing component.

b. Connection details showing fastener type, quantity, location, and other information to assure proper installation.

c. Drawings depicting panel configuration, dimensions, components, locations, and construction sequence if the Contractor elects to install prefabricated/prefinished frames.

d. Drawings depicting truss types, configuration, dimensions, locations, and connections.

e. Elevations for each truss type profile depicting locations and dimension of verticals and diagonals, and indicating truss slopes.

f. Drawings showing strapping, bridging, bracing, splices, supplemental framing, connection details.

SD-03 Product Data

Steel studs, joists, roof trusses, tracks, bracing, bridging and accessories

SD-05 Design Data

Metal framing calculations; G

Roof truss calculations; G

SD-07 Certificates

Load-bearing cold-formed metal framing and roof trusses

Mill certificates or test reports from independent testing agency, qualified in accordance with ASTM E329, showing that the steel sheet used in the manufacture of each cold-formed component complies with the minimum yield strengths and uncoated steel thickness specified. Test reports shall be based on the results of three coupon tests in accordance with ASTM A370.

Welds

Certified copies of welder qualifications test records showing qualification in accordance with AWS D1.3/D1.3M.

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver materials to job site and store in adequately ventilated, dry locations. Storage area shall permit easy access for inspection and

handling. If necessary to store materials outside, stack off the ground, support on a level platform, and protect from the weather as approved. Handle materials to prevent damage. Finish of the framing members shall be maintained at all times, using an approved high zinc dust content, galvanizing repair paint whenever necessary to prevent the formation of rust. Replace damaged items with new, as directed by the Contracting Officer. Steel framing and related accessories shall be stored and handled in accordance with the AISI S202, "Code of Standard Practice for Cold-Formed Steel Structural Framing".

1.4 LOAD-BEARING COLD-FORMED METAL FRAMING

Include top and bottom tracks, bracing, fastenings, and other accessories necessary for complete installation. Framing members shall have the structural properties indicated. Where physical structural properties are not indicated, they shall be as necessary to withstand all imposed loads. Design framing in accordance with AISI SG03-3.

1.5 COLD-FORMED STEEL ROOF TRUSSES

Include top and bottom chords, diagonals, bridging, bracing, fastenings, blocking, hold-downs, and connections to the building frame and walls, fall arrest system, and other accessories necessary for complete fabrication and installation of roof trusses. Framing members shall have the structural properties necessary to withstand all imposed loads, and shall be designed in accordance with AISI SG03-3. The roof trusses shall be designed to withstand the effects of the Dead and Live loads indicated in the general notes of the structural drawings, including loads due to blast.

1.6 MAXIMUM DEFLECTION

a. Exterior Studs:

<u>Deflection Criteria</u>	<u>Exterior Finish</u>
L/240 or L/360	Synthetic Plaster, Metal Panels
L/360	Cement Plaster, Wood Veneer
L/600	Brick Veneer, Stone Panels

Wall deflections shall be computed on the basis that studs withstand all lateral forces independent of any composite action from sheathing materials.

b. Roof Trusses:

- L/360 - Live load only
- L/240 - Total load
- Maximum deflection shall not exceed 1.5 inches

Roof truss deflections shall be computed on the basis that trusses withstand all forces independent of any composite action from sheathing materials.

1.7 QUALITY ASSURANCE

- a. Engineering Responsibility: Preparation of Shop Drawings, design calculations, and other structural data by a qualified professional engineer.
- b. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of cold-formed metal framing and cold formed steel roof trusses that are similar to those indicated for this project in material, design, and extent.
- c. Testing Agency Qualifications: An independent testing agency, acceptable to authorities having jurisdiction, qualified according to ASTM E329 for testing indicated.
- d. Product Tests: Mill certificates or data from a qualified independent testing agency indicating steel sheet complies with requirements, including base-metal thickness, yield strength, tensile strength, total elongation, chemical requirements, and metallic-coating thickness.
- e. Welding Qualifications: Qualify procedures and personnel according to the following:
 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel".
 2. AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel".
- f. Fire-Test-Response Characteristics: Where indicated, provide cold-formed metal framing identical to that of assemblies tested for fire resistance per ASTM E119 by, and displaying a classification label from, a testing and inspecting agency acceptable to authorities having jurisdiction.
- g. AISI Specifications and Standards: Comply with:
 1. AISI S100, "North American Specification for the Design of Cold-Formed Steel Structural Members".
 2. AISI S200, "North American Standard for Cold-Formed Steel Framing - General Provision".
 3. AISI S201, "North American Standard for Cold-Formed Steel Framing - Product Data".
 4. AISI S202, "Code of Standard Practice for Cold-Formed Steel Structural Framing".
 5. AISI S211, "North American Standard for Cold-Formed Steel Framing - Wall Stud Design".
 6. AISI S212, "North American Standard for Cold-Formed Steel Framing - Header Design".
 7. AISI S213, "North American Standard for Cold-Formed Steel Framing - Lateral Design".

1.7.1 Drawing Requirements

Submit framing components to show sizes, thicknesses, layout, material designations, methods of installation, and accessories.

1.7.2 Design Data Required

Submit metal framing calculations to verify sizes, gages, and spacing of members and connections. Submit roof truss calculations to verify sizes and gages of members, configuration of trusses and connections. Show methods and practices used in installation.

PART 2 PRODUCTS

2.1 STEEL STUDS, JOISTS, ROOF TRUSSES, TRACKS, BRACING, BRIDGING AND ACCESSORIES

Framing components shall comply with ASTM C955 and the following.

- a. Recycled Content of Steel Products: Provide products with an average recycled content of steel products so postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
- b. Steel Sheet: ASTM A1003/A1003M, Structural Grade, Type H, metallic coated, of grade and coating weight as follows:
 1. Grade: As required by structural performance.
 2. Coating: G60 (Z180), A60 (ZF180), AZ50 (AZ150), or GF30 (ZGF90) .
- c. Steel Sheet for Vertical Deflection Clips: ASTM A1003/A1003M, ASTM A653/A653M, structural steel, zinc coated, of grade and coating as follows:
 1. Grade: 50 (340) .
 2. Coating: G90 (Z275).
- d. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
 1. Minimum Base-Metal Thickness: 0.0428 inch .
 2. Flange Width: 1-5/8 inches .
- e. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with straight flanges, and as follows:
 1. Minimum Base-Metal Thickness: Matching steel studs.
 2. Flange Width: 1-1/4 inches.
- f. Steel Truss Memebers: Manufacturer's standard steel sections, and as follows:
 1. Minimum Base-Metal Thickness: 16 Gage (0.0538 inch).

2.1.1 Studs and Joists of 16 Gage (0.0538 Inch) and Heavier

Galvanized steel, ASTM A653/A653M and ASTM A1003/A1003M, SS Grade 50, G60 .

2.1.2 Studs and Joists of 18 Gage (0.0478 Inch) and Lighter

Studs and Joists of 18 Gage (0.0428 Inch) and Lighter, Track, and Accessories (All Gages): Galvanized steel, ASTM A653/A653M and ASTM A1003/A1003M, SS, Grade 50 33,000 psi G60.

2.1.3 Sizes, Gages, Section Modulus, and Other Structural Properties

Size and gage as indicated. Steel stud deflection shall be limited to L/600 for exterior wall brick veneer construction.

2.2 MARKINGS

Studs and track shall have product markings stamped on the web of the section. The markings shall be repeated throughout the length of the member at a maximum spacing of 4 feet on center and shall be legible and easily read. The product marking shall include the following:

- a. An ICC number.
- b. Manufacturer's identification.
- c. Minimum delivered uncoated steel thickness.
- d. Protective coating designator.
- e. Minimum yield strength.

2.3 CONNECTIONS

Screws for steel-to-steel connections shall be self-drilling, tapping screws in compliance with ASTM C1513 of the type, size and location as shown on the drawings. Electroplated screws shall have a minimum 5 micron zinc coating in accordance with ASTM F1941. Screws, bolts, and anchors shall be hot-dipped galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M as appropriate. Screws bolts, and anchors shall be hot dipped galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M as appropriate.

2.4 PLASTIC GROMMETS

Supply plastic grommets, recommended by stud manufacturer, to protect electrical wires. Prevent metal to metal contact for plumbing pipes.

PART 3 EXECUTION

3.1 FASTENING

Fasten framing members together by welding or by using self-drilling or self-tapping screws. Electrodes and screw connections shall be as required and indicated in the design calculations.

3.1.1 Welds

All welding shall be performed in accordance with AWS D1.3/D1.3M, as

modified by AISI SG02-KIT. All welders, welding operations, and welding procedures shall be qualified according to AWS D1.3/D1.3M. All welds shall be cleaned and coated with rust inhibitive galvanizing paint. Do not field weld materials lighter than 18 gage.

3.1.2 Screws

Screws shall be self-drilling self-tapping type, size, and location shown on the drawings. Screw penetration through joined materials shall not be less than three exposed threads. Minimum spacings and edge distances for screws shall be as specified in AISI SG02-KIT. Screws covered by sheathing materials shall have low profile heads.

3.1.3 Anchors

Anchors shall be of the type, size, and location shown on the drawings, or as designed by cold formed framing designer, or roof truss manufacturer.

3.1.4 Powder-Actuated Fasteners

Powder-actuated fasteners shall be of the type, size, and location shown on the drawings.

3.2 INSTALLATION

Install cold-formed framing in accordance with ASTM C1007 and AISI S200.

Install cold-formed steel framing according to AISI S202 and to manufacturer's written instructions unless more stringent requirements are indicated.

3.2.1 Tracks

Provide accurately aligned runners at top and bottom of partitions. Anchor tracks as indicated in design calculations. Butt weld joints in tracks or splice with stud inserts. Fasteners shall be at least 3 inches from the edge of concrete slabs.

3.2.2 Studs

Cut studs square and set with firm bearing against webs of top and bottom tracks. Position studs vertically in tracks and space as indicated in design. Do not splice studs. Provide tripled studs at corners, positioned to receive interior and exterior finishes. Fasten studs to bottom track by screwing both flanges to the tracks. Framed wall openings shall include headers and supporting components as shown on the drawings. Headers shall be installed in all openings that are larger than the stud spacing in a wall. Provide for vertical movement where studs connect to the structural frame. Provide horizontal bracing in accordance with the design calculations and AISI SG03-3, consisting of, as a minimum, runner channel cut to fit between and welded to the studs or hot- or cold-rolled steel channels inserted through cutouts in web of each stud and secured to studs with welded clip angles. Bracing shall be less than 4'-0" o.c.

3.2.3 Roof Trusses

Provide manufacturer's standard bridging.

Temporary bracing shall be provided and remain in place until work is permanently stabilized.

3.2.4 Erection Tolerances

- a. Framing members which will be covered by finishes such as wallboard, plaster, or ceramic tile set in a mortar setting bed, shall be within the following limits:

- (1) Layout of walls and partitions: 1/4 inch from intended position;
- (2) Plates and runners: 1/4 inch in 8 feet from a straight line;
- (3) Studs: 1/4 inch in 8 feet out of plumb, not cumulative; and
- (4) Face of framing members: 1/4 inch in 8 feet from a true plane.

- b. Framing members which will be covered by ceramic tile set in dry-set mortar, latex-portland cement mortar, or organic adhesive shall be within the following limits:

- (1) Layout of walls and partitions: 1/4 inch from intended position;
- (2) Plates and runners: 1/8 inch in 8 feet from a straight line;
- (3) Studs: 1/8 inch in 8 feet out of plumb, not cumulative; and
- (4) Face of framing members: 1/8 inch in 8 feet from a true plane.

-- End of Section --

SECTION 33 40 01.00 22

STORM DRAINAGE

07/06

PART 1 GENERAL

1.1 REFERENCES

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

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
(AASHTO)

- | | |
|--------------|--|
| AASHTO M 198 | (2003) Joints for Concrete Pipe, Manholes and Precast Box Sections Using Preformed Flexible Joint Sealants |
| AASHTO M 252 | (2002) Corrugated Polyethylene Drainage Pipe |
| AASHTO M 294 | (2003) Corrugated Polyethylene Pipe, 300- to 1200-mm Diameter |

AMERICAN CONCRETE PIPE ASSOCIATION (ACPA)

- | | |
|-------------|--|
| ACPA 01-102 | (2000) Concrete Pipe Handbook |
| ACPA 01-103 | (1999) Concrete Pipe Installation Manual |

AMERICAN WELDING SOCIETY (AWS)

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| AWS D1.1/D1.1M | (2002) Structural Welding Code - Steel |
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ASTM INTERNATIONAL (ASTM)

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| ASTM A 497 | (2002) Steel Welded Wire Reinforcement, Deformed, for Concrete |
| ASTM A 615/A 615M | (2003a) Deformed and Plain Billet-Steel Bars for Concrete Reinforcement |
| ASTM C 443 | (2002) Joints for Concrete Pipe and Manholes, Using Rubber Gaskets |
| ASTM C 478 | (2003) Precast Reinforced Concrete Manhole Sections |
| ASTM C 76 | (2003) Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe |
| ASTM C 923 | (2002) Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes and Laterals |

ASTM D 2321 (2000) Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications

ASTM D 2564 (2002) Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems

ASTM D 3034 (2000) Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings

ASTM D 3212 (1996a; R 2003) Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

ASTM F 477 (2002e1) Elastomeric Seals (Gaskets) for Joining Plastic Pipe

ASTM F 949 (2003) Poly(Vinyl Chloride) (PVC) Corrugated Sewer Pipe with a Smooth Interior and Fittings

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

FS A-A-60005 (Basic) Frames, Covers, Gratings, Steps, Sump and Catch Basin, Manhole

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

29 CFR 1910.27 Fixed Ladders

1.2 SUBMITTALS

Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES.

SD-02 Shop Drawings

Precast concrete structures

Underground stormwater BMP; G

Stormwater quality treatment unit; G

Modified stormwater outlet structure control; G

SD-03 Product Data

Concrete piping including fittings and jointing materials

High-density polyethylene (HDPE) including fittings and jointing materials

Polyvinyl chloride (PVC) plastic piping including fittings and jointing materials

Polyethylene (PE) Corrugated Wall Stormwater Collection Chambers including fittings and jointing materials

Subsurface drainage piping including fittings and jointing materials

SD-04 Samples

Pipeline materials

SD-07 Certificates

Pipeline and fittings, including factory-applied linings and joint materials

Cast-iron frames, covers, and gratings

Precast concrete structures

Submit certificates attesting that tests set forth in each applicable referenced publication have been performed, whether specified in that publication to be mandatory or otherwise and that production control tests have been performed at the frequency or intervals specified in the publication. Other tests shall have been performed within 3 years of the date of submittal of certificates on the same type, class, grade, and size of material as is being provided for the project.

1.3 DELIVERY, STORAGE, AND HANDLING

1.3.1 Delivery and Storage

1.3.1.1 Piping

Inspect materials delivered to site for damage; store with minimum of handling. Store rubber gaskets under cover out of direct sunlight. Do not store materials directly on the ground. Keep inside of pipes and fittings free of dirt and debris.

1.3.1.2 Metal Items

Check upon arrival; identify and segregate as to types, functions, and sizes. Store off the ground in a manner affording easy accessibility and not causing excessive rusting or coating with grease or other objectionable materials.

1.3.1.3 Cement, Aggregates, and Reinforcement

Store as specified in Section 03 30 00, "CAST-IN-PLACE CONCRETE."

1.3.2 Handling

Handle pipe, fittings, and other accessories in a manner to ensure delivery to the trench in sound undamaged condition. Carry, do not drag pipe to trench.

PART 2 PRODUCTS

2.1 PIPELINE AND CULVERT MATERIALS

2.1.1 Concrete Piping

2.1.1.1 Concrete Pipe and Fittings

Storm drainage pipe shall be reinforced concrete pipe conforming to ASTM C 76, Class III. Culvert pipe shall be Class III reinforced pipe conforming to ASTM C 76 .

2.1.1.2 Jointing Materials for Concrete Piping

Gaskets and pipe ends for rubber gasket joint shall conform to ASTM C 443. Gaskets shall be suitable for use with sewage.

2.1.2 Polyvinyl Chloride (PVC) Plastic Piping

2.1.2.1 PVC Plastic Pipe and Fittings

ASTM D 3034, shall be SDR 35, having ends adaptable for elastomeric gasket joints.

2.1.2.2 Joints and Jointing Material for PVC Plastic Piping

Joints shall conform to ASTM D 3212. Gaskets shall conform to ASTM F 477.

Polyvinyl Chloride (PVC) Pipe and Fittings, 10 Inch Diameter and Smaller: ASTM D 3034, SDR 35, with ends suitable for elastomeric gasket joints. ASTM F 949 with solvent cement joints or elastomeric gasket joints. ASTM D 3212 elastomeric gasket joints, ASTM D 2564 solvent cement joints and ASTM F 477 gaskets.

2.1.3 High Density Polyethylene (HDPE) Piping

2.1.3.1 Pipe and Fittings

High density polyethylene pipe (HDPE) conforming to AASHTO M 252 or AASHTO M 294.

2.1.3.2 Joints and Jointing Materials

Manufacturer's recommendations for HDPE joints.

2.1.4 Polyethylene (PE) Corrugated Wall Stormwater Collection Chambers

Polyethylene (PE) Corrugated Wall Stormwater Collection Chambers shall conform to ASTM F 2922

2.1.5 Subsurface Drainage Piping Materials

2.1.5.1 Perforated Piping

Perforated pipe shall be HDPE

2.2 MISCELLANEOUS MATERIALS

2.2.1 Drainage Structures

Construct of concrete. Precast structures may be provided in lieu of cast-in-place concrete except for airfield catch basins, headwalls, and gutters. Pipe-to-wall connections shall be mortared to produce smooth transitions and watertight joints or provided with ASTM C 923 resilient connectors. Bases shall have smooth inverts accurately shaped to a semicircular bottom conforming to the inside contour of the adjacent sewer sections. Changes in direction of the sewer and entering branches into the manhole shall have a circular curve in the manhole invert of as large a radius as the size of the manhole will permit.

2.2.1.1 Precast Concrete Structures

ASTM C 478, except as specified herein. Provide a minimum wall thickness of 5 inches. ASTM A 615/A 615M reinforcing bars. ASTM A 497 welded wire fabric. ASTM C 443 or AASHTO M 198, Type B gaskets for joint connections. Provide a 4 inch layer of clean gravel bedding with a maximum size of 2 inches.

2.2.2 Metal Items

2.2.2.1 Frames, Covers, and Gratings

Shall be cast iron conforming to FS A-A-60005, figure numbers . Fabricate frames, covers, and gratings for airfield use of standard commercial grade steel or ductile iron, welded by qualified welders in accordance with AWS D1.1/D1.1M. Covers shall be of rolled steel floor plate or ductile iron having an approved anti-slip surface. Steel gratings shall be of commercial grade steel or ductile iron and be of welded construction.

- a. Traffic manhole: Provide in paved areas.

2.2.2.2 Drainage Structure Steps

Zinc-coated steel or as indicated conforming to 29 CFR 1910.27. Aluminum steps or rungs will not be permitted. Steps are not required in manholes , curb inlets, or catch basins less than 4 feet deep.

2.3 FLARED ENDS

Flared end sections shall be same material as pipe material except that only reinforced concrete flared ends shall be provided for concrete pipe.

2.4 EROSION CONTROL RIPRAP

Provide nonerodible rock not exceeding 15 inches in its greatest dimension and choked with sufficient small rocks to provide a dense mass with a minimum thickness of 8 inches .

PART 3 EXECUTION

3.1 INSTALLATION OF PIPELINES AND APPURTENANT CONSTRUCTION

3.1.1 General Requirements for Installation of Pipelines

These requirements shall apply to pipeline installation except where specific exception is made under paragraph entitled "Special Requirements."

3.1.1.1 Location

The work covered by this section shall terminate at a point approximately 5 feet from the building , unless otherwise indicated on the drawings.

3.1.1.2 Earthwork

Perform earthwork operations in accordance with Section 31 23 00.00 20 "EXCAVATION AND FILL"

3.1.1.3 Pipe Laying and Jointing

Inspect each pipe and fitting before and after installation; remove those found defective from site and replace with new. Provide proper facilities for lowering sections of pipe into trenches. Lay pipe with the bell ends in the upgrade direction. Adjust spigots in bells to produce a uniform space. Blocking or wedging between bells and spigots will not be permitted. Replace by one of the proper dimensions any pipe or fitting that does not allow sufficient space for proper calking or installation of joint material. At the end of each work day, close open ends of pipe temporarily with wood blocks or bulkheads. Provide batterboards not more than 25 feet apart in trenches for checking and ensuring that pipe invert elevations are as indicated. Laser beam method may be used in lieu of batterboards for the same purpose.

3.1.1.4 Connections to Existing Lines

Notify Contracting Officer in writing at least 10 days prior to date that connections are to be made. Obtain approval of the Contracting Officer before interrupting service. Conduct work so that there is minimum interruption of service on existing line.

3.1.2 Special Requirements

3.1.2.1 Installation of Concrete Piping

Install pipe and fittings in accordance with paragraph entitled "General Requirements for Installation of Pipelines" of this section and with the provisions for rubber gasket jointing and jointing procedures of ACPA 01-103 or of ACPA 01-102, Chapter 9. Make joints with the gaskets previously specified for joints with this piping. Clean and dry surfaces receiving lubricants, cements, or adhesives. Affix gaskets to pipe not more than 24 hours prior to the installation of the pipe. Protect gaskets from sun, blowing dust, and other deleterious agents at all times. Before installation of the pipe, inspect gaskets and remove and replace loose or improperly affixed gaskets. Align each pipe section with the previously installed pipe section, and pull the joint together. If, while pulling the joint, the gasket becomes loose and can be seen through the exterior joint recess when the pipe is pulled up to within one inch of closure, remove the pipe and remake the joint.

3.1.2.2 Installation of PVC Plastic Piping

Install pipe and fittings in accordance with the "General Requirements for Installation of Pipelines" and with the requirements of ASTM D 2321 for laying and joining pipe and fittings. Make joints with the gaskets specified for joints with this piping; assemble in accordance with the

requirements of ASTM D 2321 for assembly of joints. Make joints to other pipe materials in accordance with the recommendations of the plastic pipe manufacturer.

3.1.2.3 Installation of Polyethylene (PE) Corrugated Wall Stormwater Collection Chambers

Install chambers and fittings in accordance with the recommendations of the manufacturer and the requirements of the design drawings

3.1.2.4 Installation of Subsurface Drainage Piping

Laying and jointing shall be in accordance with paragraph entitled "General Requirements for Installation of Piping" of this section.,

3.1.3 Concrete Work

Perform cast-in-place concrete work in accordance with Section 03 30 00, "CAST-IN-PLACE CONCRETE."

3.1.4 Manhole , Curb Inlet, and Catch Basin Construction

Construct base slab of cast-in-place concrete or use precast concrete base sections. Make inverts in cast-in-place concrete and precast concrete bases with a smooth-surfaced semi-circular bottom conforming to the inside contour of the adjacent drainage sections. For changes in direction of drains and entering branches into the manhole, make a circular curve in the manhole invert of as large a radius as manhole size will permit. For cast-in-place concrete construction, either pour bottom slabs and walls integrally or key and bond walls to bottom slab. For precast concrete construction, make joints between sections with the gaskets specified for this purpose; install in the manner specified for installing joints in concrete piping. Give a smooth finish to inside joints of precast concrete manholes , curb inlets, and catch basins. Parging will not be required for precast concrete manholes. Cast-in-place concrete work shall be in accordance with the paragraph entitled, "Concrete Work." Make joints between concrete manholes and pipes entering manholes with the resilient connectors specified for this purpose or mortared to produce a watertight joint; install in accordance with the recommendations of the connector manufacturer. Where a new manhole is constructed on an existing line, remove existing pipe as required to construct the manhole. Cut existing pipe so that pipe ends are approximately flush with the interior face of manhole wall, but not protruding beyond into the manhole.

3.1.5 Metal Work

3.1.5.1 Workmanship and Finish

Perform metal work so that workmanship and finish will be equal to the best practice in modern structural shops and foundries. Form iron to shape and size with sharp lines and angles. Do shearing and punching so that clean true lines and surfaces are produced. Make castings sound and free from warp, cold shuts, and blow holes that may impair their strength or appearance. Give exposed surfaces a smooth finish with sharp well-defined lines and arises. Provide rabbets, lugs, and brackets wherever necessary for fitting and support.

3.1.5.2 Field Painting

Do not paint surfaces subject to abrasion.

3.2 FIELD QUALITY CONTROL

3.2.1 Field Tests and Inspections

The Contracting Officer will conduct field inspections and witness field tests specified in this section. The Contractor shall perform field tests and provide labor, equipment, and incidentals required for testing. Be able to produce evidence, when required, that each item of work has been constructed properly in accordance with the drawings and specifications.

3.2.2 Pipeline Testing

Check each straight run of pipeline for gross deficiencies by holding a light in a manhole; it shall show a practically full circle of light through the pipeline when viewed from the adjoining end of line.

3.2.3 Field Tests for Concrete

Field testing requirements are covered in Section 03 30 00.00 20
CAST-IN-PLACE CONCRETE.

-- End of Section --