

TECHNICAL SPECIFICATIONS

Please refer to the Drawings for the unique project information; refer to the Technical Specifications for the "standardized" written requirements, ignoring those "material standards" and "construction requirements" that do not apply to the work as indicated by the Drawings.

MATERIAL STANDARDS

MS2 SITE	
1. <u>Site Improvements</u> -----FS-RR-H-1070	
a. <u>Roads and Walks</u>	
Concrete Work (See MS 3)	
Bituminous Work - Asphalt Institute Standards	
b. <u>Drainage - Culvert and Pipes</u>	
Clay Drain Tile-----ASTM C-4	
Clay Pipe, Extra Strength and Std. Strength-----ASTM C-700	
Perforated Clay Pipe, Standard Strength and	
Extra Strength-----ASTM C-700	
Pipe, Clay (Vitrified Fittings	
& Perforated Pipe-----FS-SS-P-361	
Concrete Culvert, Storm-Drain and Sewer Pipe-----ASTM C-14	
Culvert Pipe-----ASTM C-14	
Pipe, Corrugated (Iron or Steel,	
Zinc Coated)-----FS-WW-P-361	
Storm Drain and Sewer Pipe-----ASTM C-655	
Joint Filler	
Joint Filler (Non-extruding)-----ASTM D-544	
Poured Joint Filler-----FS-SS-F-336	
c. <u>Miscellaneous</u>	
Chain Link Fence, Type A-----FS-RR-F-191	
MS3 CONCRETE	
1. <u>Material Chapters of:</u>	
Building Code Requirements for	
Reinforced Concrete-----ACI 318	
Specifications for Structural	
Concrete in Buildings-----ACI 301	
2. <u>Cementitious Materials</u>	
Portland Cement, Type I, II, III or IV-----ASTM C-150	
Aggregate	
Normal Weight-----ASTM C-33	
Light Weight-----ASTM C-330	
3. <u>Reinforcement</u>	
Cold-drawn Steel Wire-----ASTM C-82	
Deformed Billet Steel-----ASTM C-615	
4. <u>Admixtures</u>	
Air entraining-----ASTM C-260	
Fly Ash-----ASTM C-618	
Pozzolan (Raw or calcined)-----ASTM C-618	
Chemical-----ASTM C-494	
5. <u>Ready-mixed Concrete</u> -----ASTM C-94	
6. <u>Expansion Joint Materials</u> -----FS-HH-F-341E,	
ASTM D-994,	
D-1751, D-1752	
7. <u>Penetration Resistance of Hardened Concrete</u> -----ASTM C-803	
MS4 MASONRY	
Brick Masonry: SCPI, Building Code Requirements for Engineered Brick	
Masonry.	
Concrete Masonry: NCHA Specifications for the Design and construction of	
Load Bearing Concrete Masonry.	
1. <u>Cementitious Materials</u>	
Portland Cement-----ASTM C-150	
Portland Cement, Air Entraining-----ASTM C-175	
Hydrated Lime, Type S-----ASTM C-207	
Quick Lime-----ASTM C-5	
Gypsum-----ASTM C-91	
Masonry Cement-----ASTM C-91	
Aggregate-----ASTM C-144	
2. <u>Mortar and Grout</u>	
Reinforced Masonry-----ASTM C-476	
Mortar Types M,S,N or O-----ASTM C-270	
Other Mortars-----ASTM C-447	
3. <u>Building Brick</u>	
Clay Brick-----ASTM C-62	
Facing Brick-----ASTM C-216	
Sewer and Manhole Brick-----ASTM C-32	
Paving Brick-----ASTM C-7	
Hollow Brick	
Hollow Masonry Units Made from Clay or Shale-----ASTM C-652	
4. <u>Concrete Masonry</u>	
Hollow Units-----ASTM C-90	
Hollow Non-Loadbearing-----ASTM C-129	
Solid Units-----ASTM C-145	
Concrete Brick-----ASTM C-55	
Cast Stone-----ACO 704	
Cold-drawn Steel Wire (Joint Reinf.)-----ASTM A-82	
5. <u>Miscellaneous Masonry</u>	
Ceramic Tile-----TCA 137	
MS5 METALS	
<u>Aluminum</u> - AA, Aluminum Construction Manual	
<u>Steel Materials & Fasteners</u> - Appropriate ASTM Standard	
MS6 CARPENTRY	
Dimension, Board Lumber and Timbers-----PS-20	
Softwood Plywood-----PS-1	
Structural Glued Laminated Timber-----PS-56	
Pressure Treated Lumber and Plywood	
Above Ground Use:	
Water Borne Preservatives-----AWPB LP-2	
Light Petroleum Solvent-penta Solution-----AWPB LP-3	

Basic Hardboard-----PS-58	
Hardboard Siding-----PS-60	
Vacuum Treated Exterior Softwood Millwork-----NWA IS 4	
Non-pressure Treated Millwork-----NWA IS 4	
Fire Retardant Pressure Treatment	
Lumber-----AWPA C-20	
Plywood-----AWPA C-27	
Fiberboard Sheathing-----FS LLL-I-535	
or Class E,	
ASTM C-208	
Nail Base Sheathing-----AIA 1B	
Sheathing Paper-----FS UUB-790,	
Grade D or	
ASTM C-226	
Nails-----FS FF-N-105	
or CS-263	
Staples-----FHA UM-25	
Screws-----FS FF-S-111	
Bolts-----FS FF-B-561	
or FF-B-571	
MS7 THERMAL AND MOISTURE PROTECTION	
1. <u>Waterproofing and Dampproofing</u>	
Asphalt-----FS SS-A-666	
or ASTM D-449	
Felt, Asphalt-saturated-----ASTM D-226	
Roll Roofing, 55lb Smooth Surface-----ASTM D-227	
Clay Drain Tile-----ASTM C-4	
Perforated Clay Pipe-----ASTM C-700	
2. <u>Vapor Barriers</u>	
Test for Water Vapor Transmis.-Thick Mat'l.-----ASTM C-335	
Test for Water Vapor Transmis.-Thin Mat'l.-----ASTM E-96	
Under Concrete and as Ground Cover-----ASTM E-154	
Polyethylene Plastic Sheets-----FS L-P-512	
ASTM D-2103	
3. <u>Building Insulation</u>	
Duct Insulation-----FS HH-I-558	
Urethane Board (k=0.17)-----FS HH-I-530	
Extruded Polystyrene Board (k=0.20)-----FS HH-I-524	
Molded Polystyrene Board (k=0.27)-----FS HH-I-524	
Perlite Board Roof Insulation (k=0.36)-----FS HH-I-529	
Perimeter Insulation-----FS HH-I-524	
Vermiculite (used as masonry wall filler)-----FS HH-I-585	
Class 2	
Vermiculite-----ASTM C-516	
Perlite-----FS HH-I-574	
4. <u>Sheet Metal</u>	
Aluminum - Aluminum Sheet Metal in Bldg. Construction, AA	
Galvanized Steel or Iron-----ASTM C-516, or	
ASTM A-525	
5. <u>Caulking and Sealants</u>	
Elastomeric Type; Multi-Compound-----FS TT-S-227	
Elastomeric Type; Single-Compound-----FS TT-S-230	
Oil and Resin Base Type-----FS TT-C-598	
Silicone Rubber Base-----FS TT-S-1543	
Butyl Rubber Base; Single-Compound-----FS TT-S-1657	
NAAMM Spec. for Non-Skinning Bulk Compounds.	
NAAMM Spec. for Non-Skinning Non-resilient	
Preformed Compounds.	
Cellular Neoprene-----ASTM C-516	
NAAMM Spec. for Rubber-like Gasket Materials.	
NAAMM Spec. for Plastic Gasket Materials.	
MS8 DOORS, WINDOWS, GLAZING PANELS	
<u>Steel Doors and Frames</u> -----SDI 100	
<u>Wood Doors and Frames</u>	
Hardwood, Hardboard and Plastic Faced	
Wood Doors-----NWA IS-1	
Exterior Wood Doors-----WM 3	
<u>Aluminum Doors and Frames</u> -----NAAM, AAMA & AA	
<u>Special Doors</u>	
Aluminum Sliding Glass Doors-----ANSI A134.2	
NAAM, AAMA & AA	
Wood Sliding Patio Doors-----NWA IS-3	
Rolling Fire Doors-----NFPA No. 80	
& ASTM E 152	
<u>Windows and Frames</u>	
Aluminum Prime Windows-----ANSI A134.1	
Wood Window Units-----ANSI A200.1	
Class A or B	
<u>Hardware</u> -----BHMA	
<u>Glass</u>	
Glass-----FS DD-G-451	
Safety Glass and Other Safety Glazing	
Panel Materials-----ANSI Z-97.1	
Safety Glazing Material Used in Buildings-----SGCC Certified	
Products Di-	
rectory	
Tempered Glass-----FS DD-G-1403	
Insulating Glass-----SIGMA No. 65-7-2	
MS9 FINISH MATERIALS	
1. <u>Exterior Wall Finishes</u>	
Basic Hardboard-----PS-58,	
ANSI A135.4	
Plywood-----PS-1 or PS-51	
Stucco-----ANSI A42.2	
Exterior Insulated Finish System	
Finish and base coat classified by UL.	
System approved and listed by Factory Mutual.	
System approved in report documents by BOCA, ICBO,	
SBCCI AND HUD.	
2. <u>Roof Coverings</u>	
Fiberglass Shingles (UL Class A)-----ASTM D3018-90	
Type I	
Fiberglass Mineral Surfaced Roll Roofing-----ASTM 3909-91	
Underlayment	
Asphalt Saturated Felt-----ASTM D226-89	
FS HH-R-595	
Building Paper-Type I Graded-----FS UU-B-790	
Single Ply EPDM Roofing Sheet-----ASTM D4637-87	
Metal Roofing-----See Drawings	

3. <u>Interior Wall and Ceiling Finish</u>	
Acoustic Tile-----FS-SS-S-118	
& AIMA	
Ceramic Wall Tile-----TCA 137.1	
Portland Cement-----ANSI H23.6	
TYPE 1	
Organic Adhesives-----ANSI A136.1	
Dry-Set Portland Cement Mortar-----ASTM C-588	
Gypsum Wallboard-----ASTM C-36 or	
FS SS-L-30	
Water-resistant Backing Board-----ASTM C-6 30	
Nails-----ASTM C-514	
Laminating Adhesives-----ASTM C-475	
Hardwood and Decorative Plywood-----FS-51	
High Pressure Laminated Plastic Panel-----NEMA LD-1	
Prefinished Hardboard Paneling-----PS-59,	
ANSI A135.5	
Basic Hardboard-----PS-58,	
ANSI A135-4	
4. <u>Finish Flooring - Rigid</u>	
Ceramic Tile-----TCA 137.1	
Adhesive (organic)-----ANSI A136.1	
Dry-set Portland Cement Mortar-----ANSI A118.1	
Epoxy Adhesive and Grout-----ANSI A118.3	
Block, Laminated-----HPMA-1f-71	
Strip Oak Flooring-----PS-56	
5. <u>Resilient Flooring</u>	
Asphalt Tile, Type I-----FS SS-T-312A	
Vinyl Tile, Type III-----FS SS-T-312A	
Vinyl Composition Tile, Type IV-----FS SS-T-312	
Vinyl Sheet-----FS L-F-475	
6. <u>Painting</u>	
Painting---Mfr's. Best-Grade Product and Appropriate	
Federal Specifications.	
Spray Texture---Acceptable Products are "Aristex", mfr'd.	
by The Proko Co., 1910 Wall St., Dallas, TX, and	
"Imperial QT" mfr'd. by U.S. Gypsum Co.	
7. <u>Wall Coverings</u>	
Vinyl Wall Covering-----FS CCC-W-408,	
Class 2, Mildew resistant backing	
MS10 SPECIALTIES	
1. <u>Plastic Laminate Toilet Partitions</u> (none this job):	
Acceptable manufacturers are Accurate Partitions Corp.,	
Global Steel Products Corp., Metpar Corp., The Mills Co.,	
Sanymetal Products Co., or equal.	
2. <u>Toilet Accessories:</u>	
Acceptable manufacturers are Accessories Specialties,	
Inc; American Dispenser Co., Inc.; Bobrick Washroom	
Equip., Inc.; Bradley Corp.; Franklin Brass Mfg. Co.;	
G.M. Ketcham Co.; Moore Dispensers, Inc.; The Charles	
Parker Co; and Watrus, Inc.	
3. <u>Metal Framed Mirrors</u> (none this job)	
4. <u>Operable Walls</u> (none this job)	
5. <u>Portable Fire Extinguishers:</u> Acceptable mfr's. are J.L.	
Industries; Larsen's Mfg. Co., or equal.	
6. <u>Flagpoles:</u> Acceptable mfr's. are Aabec Pole; American Flagpole;	
Baartol; Concord; Eder; Metal Arts; Texas Flagpoles; or	
equal.	
7. <u>Architectural Louvers:</u> Comply with SMACNA "Architectural Sheet	
Metal Manual" recommendations for fabrication, construction	
details and installation. Aluminum louvers equal to Airolite	
Co. products.	
8. <u>Specialty Signs:</u> Provide under an allowance. See GR2.3 herein.	
MS11 EQUIPMENT	
1. <u>Laundry Chutes:</u>	
Acceptable mfr's. are JDA/Midland, Valient Products and	
Wilkinson Co.	
2. <u>Major Electric Appliances (Owner furnished)</u>	
MS12 FURNISHINGS (by Owner)	
MS13 SPECIAL CONSTRUCTION (reserved)	
MS14 ELEVATORS (see CR 14)	
MS15 MECHANICAL	
1. <u>General</u> -----NFPA	
2. <u>Mechanical Ventilation</u>	
Ventilation-----HVI-Air Flow	
Test ANCA-210	
Fan Noise Rating-----HVI-Sound Test,	
ANCA-300	
3. <u>Heating</u>	
Air Duct, Insulation-----UL-181	
Furnaces	
Gas-----AGA Listed	
Electric-----US-573, NFPA-70	
Radiation	
Baseboard-----IBR Rated	
Finned Tube-----IBR Rated	
Electric-----UL-1042, NEMA	
Humidifiers-----ARI-610	
4. <u>A/C Room Units</u> -----UL-484, AHAM CN-1	
Sound Rating-----ARI-270	
Heat Pump-----ARI-240, UL-559	

5. <u>Plumbing</u>	
Cast Iron Soil Pipe-----ASTM A-74, C-564	
CISPI HS-72	
CISPIHSN-72,	
ANSI A112.5	
Cast Iron Water Pipe-----AWWA 106, 108	
Copper Drainage Tube-----ANSI H23.6	
ASTM B-88	
Copper Water Tube and Pipe K,L,M-----ANSI H23.1	
ASTM B-88	
Galvanized Steel Threaded Pipe-----FS WW-P-406	
No-hub C.I. Pipe-----CISPI 301	
Plumbing Fixtures - General-----FS WW-P-406	
Plumbing Fixtures - Enameled Cast Iron-----ANSI A112-19.1	
Plumbing Fixtures - Vitreous China-----ANSI A112-19.2	
PVC Pipe-----ASTM A-268	
Stainless Steel - Grade TP-409-----ASTM A-268	
6. <u>Water Heaters</u>	
Gas-----AGA Listed	
Electric-----UL-174	
7. <u>Special Piping Systems</u>	
Gas Piping-----NFPA-54 and 58	
MS16 ELECTRICAL	
<u>Materials</u>	
All electrical work (wiring, lighting, appliances, etc.)	
NEC and UL and AHJI Standards.	

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DAYS INN

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SPECIFICATIONS

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