

The Southern Fried Architect

(A clear, complete, concise, and mostly correct, view of stuff happening in the design/construction industry)

Dennis J. Hall, FCSI, AIA, SCIP: Guy who writes this stuff

July 2004

Greg Ceton, Esq.: Ghost editor, legal insultant, and guy who fixes this stuff

100,000 and Counting

In the first two weeks *MasterFormat* 2004 has been available on the CSI web site, more than 100,000 copies have been downloaded. Needless to say, we want to renegotiate our contract. Get yours at CSINet.org/masterformat.

***MasterFormat* 2004 Goes International**

At the International Construction Information Society (ICIS) meeting in Toronto, Canada last month, the delegation from Japan announced that Japan intends to use *MasterFormat* 2004 as the system to classify work results. WOW! With Japan joining India, we may be starting a genuine international movement here.

We're getting interest from other countries as well. Recently, we received a request for more information on *MasterFormat* 2004 from South Korea. Now if we could just get South Carolina interested.

***MasterFormat* 2004 Goes International, Part Deux**

Tom Dunbar, RSW, FCSC, Chief, National Master Specifications, the Canadian master specification system for public work projects, announced that the National Master Specifications would convert to *MasterFormat* 2004 in January 2005.

In a completely related matter, Wayne Watson, RSW, FCSC, FCSI and President of Digicon, a Canadian master specification provider for private projects, announced that Digicon would also convert to *MasterFormat* 2004 in January 2005. Don't you just love Canadians?

Feds Converting to *MasterFormat* 2004

With the rest of the world now converting to the new *MasterFormat* 2004, the folks that publish Spec-Intact and the Unified Federal Specs are converting over to *MasterFormat* 2004. Actually, we've been talking to them for the last two years about the new structure and in December they expect to have their conversion complete. The expanded number of Site and Infrastructure sections will come in very handy for the Corps of Engineers and I'm sure that NASA will find the new Process Equipment divisions handy. *MasterFormat* 2004, something for everybody. Hey, we like that.

AIA / NIBS Agrees to Create BECs

On May 18, the American Institute of Architects and the National Institute of Building Sciences signed an agreement to create a "network of Building Enclosure Councils in major US cities." About a dozen cities were selected, and not surprisingly, not one southern city was on the list. I guess they're still mad at us.

Anyway, this is an outgrowth of the AIA Building Science Knowledge Community and will be patterned after the model established by the Boston Society of Architects, that was in turn modeled after the Canadian BECs. There go those darn Canadians again.

And the Winner Is?

There are three kinds of people in this world, the ones that want all the new toys NOW, the ones that will never accept any change, and everyone else. In less than 3 business days after the *MasterFormat* 2004 numbers and titles hit the electronic airwaves, 4Specs.com converted over and is giving users the opportunity to put the new structure to use. On June 14, history was made as this small but very popular web site went live with the first search tool using those funny 6 digit numbers. Atta boy Colin!

Sticks + Stones

SFA - Section B

Welcome to another issue of *Sticks + Stones*, where we provide marginally professional advice to our readers, based on our many years of creating and observing problems in the construction industry. This month **S+S** will continue to review some traditional construction practices, or work results, using those great new *MasterFormat* 2004 numbers and titles. Below are a few things that we thought you might like to know.

10 10 00 – Information Specialties



It being July, and the new *MasterFormat* 2004 titles and numbers are now published electronically, and folks are actually converting over to the new structure, we thought this sign was particularly appropriate for the occasion. Even some of our harshest critics have determined that conversion is not as bad as it first seemed. I think I'll get my winter coat back out.

03 01 40. 19 – Rehabilitation for Precast Concrete



Sometime precast concrete requires rehabilitation and sometimes it requires a little more rehabilitation. That's why we have a new Level Four number in *MasterFormat* 2004 just for this purpose. We also have 01 76 00 – Protecting Installed Construction, just in case you need that too. Special thanks to our good friend Anne Whiteacre in Seattle, WA for sending along this photo. An *SFA* coffee mug will be hand delivered in November.

01 58 13 – Temporary Project Signage



In May we expressed our concern for worker safety. This prompted our ol' friend Edd Soenke, FCSI, AIA in Des Moines, Iowa to send us the photo of a temporary construction sign in Australia. Since we know the folks 'down under' read this newsletter, maybe they can send us some photos of really stupid stuff in the heartland of America. Thanks Edd, and an *SFA* coffee mug will be hand delivered this month.

Technically Speaking

SFA - Section C

Tar and Feathering: On the Road for a better *MasterFormat*

For the next couple of months we'll be staying home, mostly to deal with our creditors. It seems that they've been missing us something fierce, and now that it's hot out we can hardly find any really cool places that will have us. Below are our stops this summer.

Jul 11	CSI University	San Antonio, TX
Jul 22	AIA Documents Committee	San Rafael, CA
Jul 30	CSI North Central Region Conference	Lake Geneva, WI

Understanding *MasterFormat* 2004 Terminology

A couple of months ago we began our unofficial glossary of terminology found in *MasterFormat* 2004. This month we wanted to compare terminology used in the new *MasterFormat* 2004 and several of the current AIA documents. The table below, shows similar terms used in the various documents. Now, wouldn't it be nice if we had consistency? Later this month we'll be meeting with the AIA Documents Committee and maybe we can work towards that as a goal. Next month we'll have a few more examples in this comparison.

<i>MasterFormat</i> 2004	AIA B141-97	AIA B151-97	AIA A201-97
Modifications -Change Orders -Const. Change Directives -Minor Changes in the Work -Supplemental Instructions -Field Orders -Amendments -Work Change Directives	Change Orders Const. Change Directives	Change Orders Const. Change Directives	Modifications -Change Orders -Const. Change Directives -minor change in the Work
Conditions of the Contract -General Conditions -Supplementary Conditions	General Conditions Conditions of the Contract for Construction Supplementary Conditions other Conditions	Conditions of the Contract	Conditions of the Contract -General Conditions -Supplementary Conditions -other Conditions

***MasterFormat* 2004 In Action**

We've been getting a lot of questions about implementation these days. In May we showed you a side-by-side comparison of a Table of Contents for a project using MF95 and MF04. Taking that a bit further, we thought we'd go back into the archives and pull out a couple of old project manuals written in earlier versions of *MasterFormat* and do another comparison. This month, we set our time machine for the year 1986 and one of the first project manuals I wrote. This project is the Duke Power: Archdale Business Office and was written using the very first version of *MasterFormat* that was called *MasterFormat*, the 1978 edition. Is anyone feeling old yet?

Now before I start getting a lot of grief from my specifier friends, remember that we were all young and ignorant once. And like many of you, we learned to write specifications the way we learned to swim. The learning process is not always easy or pretty to watch. But over the next few months we'll slowly expose one man's history of learning this craft.

MasterFormat 78

TABLE OF CONTENTS

<u>Number</u>	<u>Title</u>
----------------------	---------------------

INTRODUCTORY INFORMATION

	Cover Sheet
	Table of Contents

BIDDING REQUIREMENTS

00020	Invitation to Bid
00100	Instructions to Bidders
00280	Subsurface Exploration
00300	Bid Form

PROJECT FORMS

00501	Form of Agreement
00611	Performance Bond and Labor and Materials Payment Bond
00650	Sheet for Attaching Certificates of Insurance
00670	Affidavit of Contractor Regarding Subcontractor and Supplier Claims
00680	Affidavit of Release and Waiver of Claims
00690	Contractor's General Warranty

CONDITIONS OF THE CONTRACT

00701	General Conditions
00801	Supplementary Conditions
00815	Cost of Change Worksheet
00851	List of Drawings

DIVISION 1 GENERAL REQUIREMENTS

01010	Summary of Work
01020	Allowances
01030	Alternatives
01040	Cutting and Patching
01050	Field Engineering
01062	Standards and Regulations
01200	Project Meetings
01300	Submittals
01400	Testing Laboratory Services
01500	Temporary Services and Facilities
01600	Material and Equipment
01650	Substitutions and Product Options
01700	Contract Closeout
01710	Cleaning
01720	Project Record Documents

MasterFormat 2004

00 01 10 TABLE OF CONTENTS

<u>Number</u>	<u>Title</u>
----------------------	---------------------

PROCUREMENT AND CONTRACTING REQUIREMENTS

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

INTRODUCTORY INFORMATION

00 01 01	Project Title Page
00 01 10	Table of Contents
00 01 15	List of Drawing Sheets

PROCUREMENT REQUIREMENTS

00 11 16	Invitation to Bid
00 21 13	Instructions to Bidders
00 31 32	Geotechnical Data
00 41 13	Bid Form-Stipulated Sum (Single-Prime Contract)

CONTRACTING REQUIREMENTS

00 52 13	Agreement Form - Stipulated Sum (Single- Prime Contract)
00 61 13	Performance and Payment Bond Form
00 63 55	Proposal Worksheet Detail Form
00 65 36	Warranty Form
00 65 19.13	Affidavit of Payment of Debits and Claims Form
00 65 19.16	Affidavit of Release of Liens Form
00 72 13	General Conditions - Stipulated Sum (Single-Prime Contract)
00 73 00	Supplementary Conditions

SPECIFICATIONS

GENERAL REQUIREMENTS

DIVISION 01 GENERAL REQUIREMENTS

01 11 00	Summary of Work
01 20 00	Price and Payment Procedures
01 30 00	Administrative Requirements
01 40 00	Quality Requirements
01 50 00	Temporary Facilities and Controls
01 60 00	Product Requirements
01 70 00	Execution and Closeout Requirements

DIVISION 2 SITE CONSTRUCTION

02100 Site Preparation
02200 Earthwork
02250 Soil Treatment
02356 Drilled Piers
02500 Exterior Utilities
02510 Concrete Curbs, Walks, and Paving
02513 Asphaltic Concrete Paving
02710 Subsurface Drainage

DIVISION 3 CONCRETE

03100 Concrete Formwork
03200 Concrete Reinforcing
03300 Cast-In-Place Concrete

DIVISION 4 MASONRY

04100 Mortar
04200 Concrete Masonry
04210 Brick Masonry

DIVISION 5 METALS

05120 Structural Steel
05210 Steel Joist
05300 Steel Decking
05400 Lightguage Framing
05500 Metal Fabrication

DIVISION 6 WOOD AND PLASTICS

06100 Rough Carpentry
06220 Finish Carpentry and Millwork

DIVISION 7 THERMAL AND MOISTURE PROTECTION

07115 Single Ply Sheet Membrane Waterproofing
07125 Fluid Applied Polyurethane Waterproofing
07160 Damproofing
07175 Water Repellant Coating
07200 Insulation
07510 Built-Up Roofing System
07531 Single-Ply Membrane Roofing System
07600 Flashing and Sheet Metal
07700 Roofing Accessories
07900 Sealants

FACILITY CONSTRUCTION

DIVISION 02 EXISTING CONDITIONS

Not Used

DIVISION 03 CONCRETE

03 10 00 Concrete Forming
03 20 00 Concrete Reinforcing
03 30 00 Cast-In-Place Concrete

DIVISION 04 MASONRY

04 05 13 Masonry Mortaring
04 21 13 Brick Masonry
04 22 00 Concrete Unit Masonry

DIVISION 05 METALS

05 12 00 Structural Steel Framing
05 21 00 Steel Joist Framing
05 31 00 Steel Decking
05 40 00 Cold-Formed Metal Framing
05 50 00 Metal Fabrications

DIVISION 06 WOOD, PLASTICS, AND COMPOSITES

06 10 00 Rough Carpentry
06 20 00 Finish Carpentry
06 51 00 Structural Plastic Shapes and Plates

DIVISION 07 THERMAL AND MOISTURE PROTECTION

07 13 00 Sheet Waterproofing
07 14 00 Fluid-Applied Waterproofing
07 11 00 Damproofing
07 19 00 Water Repellents
07 21 00 Thermal Insulation
07 51 00 Built-up Bituminous Roofing
07 53 00 Elastomeric Membrane Roofing
07 60 00 Flashing and Sheet Metal
07 72 00 Roof Accessories
07 92 00 Joint Sealants

<u>Number</u>	<u>Title</u>
DIVISION 8	DOORS AND WINDOWS

08100	Hollow Metal Doors and Frames
08210	Wood Doors
08700	Finish Hardware
08800	Glass and Glazing
08900	Curtainwall System

DIVISION 9	FINISHES
------------	----------

09212	Glass Reinforced Shapes
09250	Gypsum Wallboard
09300	Tile
09510	Acoustical Ceiling System
09650	Resilient Flooring
09685	Carpeting
09900	Painting

DIVISION 10	SPECIALTIES
-------------	-------------

10165	Toilet Partitions
10355	Flagpoles
10800	Toilet Accessories
10900	Miscellaneous Specialties

DIVISION 11	EQUIPMENT
-------------	-----------

Not Used

DIVISION 12	FURNISHINGS
-------------	-------------

Not Used

DIVISION 13	SPECIAL CONSTRUCTION
-------------	----------------------

Not Used

DIVISION 14	CONVEYING SYSTEMS
-------------	-------------------

14211	Hydraulic Elevators
-------	---------------------

<u>Number</u>	<u>Title</u>
---------------	--------------

DIVISION 08	OPENINGS
-------------	----------

81 11 00	Metal Doors and Frames
08 14 00	Wood Doors
08 71 00	Door Hardware
08 80 00	Glazing
08 44 00	Curtain Wall and Glazed Assemblies

DIVISION 09	FINISHES
-------------	----------

09 29 00	Gypsum Board
09 30 00	Tiling
09 51 00	Acoustical Ceilings
09 65 00	Resilient Flooring
09 68 00	Carpeting
09 90 00	Painting and Coating

DIVISION 10	SPECIALTIES
-------------	-------------

10 21 13	Toilet Compartments	Not Used
10 28 13	Toilet Accessories	
10 75 00	Flagpoles	
10 80 00	Other Specialties	

DIVISION 11	EQUIPMENT
-------------	-----------

Not Used

DIVISION 12	FURNISHINGS
-------------	-------------

Not Used

DIVISION 13	SPECIAL CONSTRUCTION
-------------	----------------------

Not Used

DIVISION 14	CONVEYING EQUIPMENT
-------------	---------------------

14 24 00	Hydraulic Elevators
----------	---------------------

Number**Title****DIVISION 15 MECHANICAL**

15010 Mechanical General Provisions
15180 Testing and Balancing
15250 Insulation
15410 Basic Materials and Methods (Plumbing)
15420 Domestic Water Supply Piping
15440 Soil, Waste, Vent and Drain Piping
15450 Plumbing Fixtures and Equipment
15620 Piping (HVAC)
15644 Packaged Air Handling Unit (Split System)
15665 Split System Heat Pump
15671 Packaged Heat Pump (5 to 9 tons)
15674 Condensing Units – Air Cooled
15724 Ceiling Exhaust Fans
15727 Roof Mounted Central Exhaust Fans
15763 Radiant Heating System
15810 Computerized Damper System
15900 Automatic Temperature Controls

DIVISION 16 ELECTRICAL

16010 Electrical General Provisions
16110 Raceways and Fittings
16120 Conductors
16130 Outlets and Junction Boxes
16134 Panelboards
16140 Wiring Devices
16190 Fastenings and Supports
16200 Engine-Generator System
16450 Grounding and Bonding
16491 Safety Switches
16492 Motors, Controllers and Equipment
Connections
16500 Lighting Fixtures
16740 Telephone Raceway Systems
16741 Telephone/Data Cable Installation

END OF DOCUMENT**Number****Title****FACILITY SERVICES****DIVISION 21 FIRE SUPPRESSION**

Not Used

DIVISION 22 PLUMBING

22 05 00 Common Work Results for Plumbing
22 07 00 Plumbing Insulation
22 11 16 Domestic Water Piping
22 13 16 Sanitary Waste and Vent Piping
22 40 00 Plumbing Fixtures

**DIVISION 23 HEATING, VENTILATING, and
AIR CONDITIONING**

23 05 00 Common Work Results for HVAC
23 09 00 Instrumentation and Control for HVAC
23 05 93 Testing Adjusting and Balancing for
HVAC
23 07 00 HVAC Insulation
23 20 00 HVAC Piping and Pumps
23 34 00 HVAC Fans
23 80 00 Decentralized HVAC Equipment
23 83 00 Radiant Heating Units

DIVISION 24 INTEGRATED AUTOMATION

Not Used

DIVISION 26 ELECTRICAL

26 05 00 Common Work Results for Electrical
26 05 26 Grounding and Bonding for Electrical
Systems
26 05 29 Hangers and Support for Electrical
Systems
26 05 33 Raceway and Boxes for Electrical
Systems
26 24 16 Panelboards
26 27 26 Wiring Devices
26 28 16 Enclosed Switches and Circuit Breakers
26 29 13 Enclosed Controllers
26 32 13 Engine Generator
26 50 00 Lighting Fixtures

DIVISION 27 COMMUNICATION

27 05 28 Pathways for Communications Systems
27 10 00 Structured Cabling

**DIVISION 28 ELECTRONIC SAFETY and
SECURITY**

Not Used

SITE AND INFRASTRUCTURE

DIVISION 31 EARTHWORK

31 00 00 Site Preparation
32 00 00 Earthwork
32 50 00 Soil Treatment
33 56 00 Drilled Piers
35 00 00 Exterior Utilities
35 10 00 Concrete Curbs, Walks, and Paving
35 13 00 Asphaltic Concrete Paving
37 10 00 Subsurface Drainage

DIVISION 32 -35

Not Used

PROCESS EQUIPMENT

Not Used

END OF DOCUMENT

Other Stuff

SFA - Section D

Good News on the Home Front

After the sad news last month of the loss of *SFA* coffee mugs during shipping, we're please to announce that three boxes arrived with only minimal loss of mugs. This means that out of the three boxes shipped, almost two boxes were received intact.

SFA Goes International

While *MasterFormat* 2004 was conceived as a North American (US and Canadian) standard, the impact of *SFA* is reaching far beyond the continent. Last month when we spoke at the ICIS meeting, most delegates had no clue who I was until Colin McGregor from the UK said, "Oh, you're the Southern Fried Architect!" Even the delegate from New Zealand told me that he looks forward to receiving his *SFA* each month. As we have always said, southern is not a location, it's a state of mind. Welcome to the South, y'all.

High Holy Days

This month the high holy days of *SFA* fall on a long weekend. Saturday, July 3 is the Feast of St. Thomas. St. Thomas, called Didymus or the Twin, is the patron saint of architects. We plan to celebrate the Feast of St. Thomas by heading to the holy grail of all BBQ fiends, Lexington Barbeque (formerly Lexington #1), for some of that famous Lexington-style barbeque.

On Sunday, July 4 we celebrate our nation's Independence Day. Actually, Mecklenburg County (our current home county) declared independence from the British on May 20, 1775, more than a year before the folks in Philadelphia got around to doing the same thing. This day is known as Meck Dec Day. And while some claim that Meck Dec Day is a fraud, we have it on good authority (conversation with the Easter Bunny) that this is just another case of southern envy. After all, we in the South will take our ball and go home in a heartbeat if we don't like the way the game is being played. To celebrate Independence Day, we plan to go to Bubba's Barbeque here in Charlotte for some good Eastern NC-style barbeque.

Finally, on Monday, July 5, as regular readers know, we will celebrate my twin brother's birthday. He will turn 50 and this deserves a special treat. For this blessed event, we plan to travel the 30 minutes back to our real hometown and dine at Gary's Barbeque. Now this is the really good stuff. We might even call our brother in Tennessee to say "Happy Birthday." Then again, we might not.

As you can plainly see, early July is a celebration of God, country, and family. And the barbeque isn't bad either.

MasterFormat Jackpot

To the surprise of many, excluding us of course, there has been an explosion in the interest in the new *MasterFormat* 2004. Within the first 24 hours the document was posted on the CSI web site, the Institute had 3,700 downloads. Prior to this, the typical maximum number of hits on the website was around 100 in a 24 hour period. We are also expecting increased interest in implementation and expect that CSI better react quickly to meet that groundswell.

Now with over 100,000 copies downloaded in the first two weeks, our prediction of 300,000 copies a year ago does not look quite as ridiculous to the big muckidy mucks at CSI as it did back then. Who knows, they might even give us a 20% discount on the final version, if we ask real nice.

Editorial Section

SFA - Section E

Happy Birthday *SFA*

This month marks not only the historic delivery of *MasterFormat* 2004, but also the conclusion of the third year of the ***Southern Fried Architect***. It's hard to believe that just 36 issues ago we were just a small one-page newsletter. And while you may only think of us as a humorous and informative Internet publication, millions of you probably know better. Today, *SFA* is a global conglomerate with our fingers in all kinds of stuff. One of our lesser-known enterprises is *SFA* Laboratories. At **SFAL** we engage in improving the construction industry through the development of new and innovative products. We would like to tell you about some of our really cool stuff but we will save that for a later issue.

It seems that at the end of every year, we all get at least one of those darn perky letters from people we haven't seen all year, telling us of all the boring stuff that has happen to them and all of their cousins over the course of the year. And since this is the end of an era for us, we thought we'd see if you've been paying attention. Here's a little test to recap the "highlights" of the last three years.

In the summer of 2001, my twin brother Delbert and his wife Kathy came to visit us in Charlotte. Everyone felt their pain and dismay when they learned that I...A) was a pimp; B) was insane; C) was a Republican; D) was not an insane, Republican pimp as they had thought, but the guy who writes the ***Southern Fried Architect***.

In the fall of 2002, the MFETT published Draft 2 with multiple schemes. This draft...A) instantly became a hit; B) instantly made us the target of hits; C) made us want to hit people; D) had something for everyone to hate.

In April 2003 at the MFETT meeting in Chicago, Draft 3 of *MasterFormat* 2004 met with a horrible death. In a solemn ceremony the pages of the document were cremated and we...A) scattered the ashes over Wrigley Field; B) scattered the ashes over Marshall Fields; C) scattered the ashes over W.C. Fields D) thought we were in a scene from *The Killing Fields*.

In April 2004 *MasterFormat* 2004 titles and numbers had their debut at the CSI Convention. Most people were surprised that...A) it had a six digit numbering structure B) it had an eight digit numbering structure; C) people did not care about the numbers; D) the task team chair was not wearing numbers.

The answers will appear in next month's edition if we can find old back issues and look them up.

So what does the future hold in store for this silly publication? Over the next six months we'll be shifting our emphasis toward the implementation of *MasterFormat* 2004 and the integration with other industry documents. Folks are starting to make the switch and naturally have questions about some of the new concepts.

After that, who knows? We have another writing gig for the AIA and John Wiley & Sons due in early summer and we may take some time off to complete this work. I believe the *SFA* has done the job we intended, and that is to be a communications tool for the new changes in *MasterFormat* and provide a little humor to what is considered by most to be a pretty dry industry.