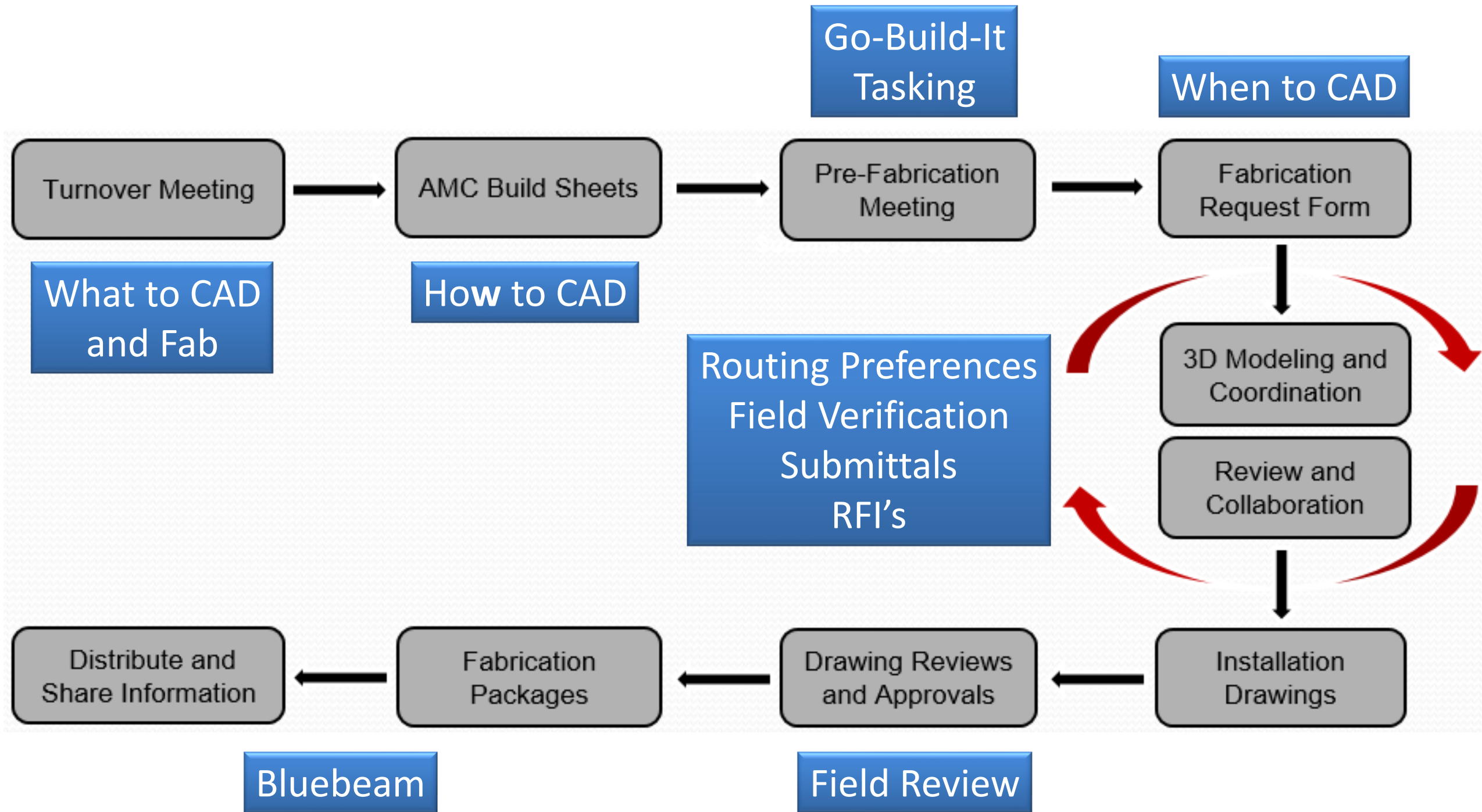




CAD → FAB → FIELD

Apollo
MECHANICAL
CONTRACTORS
...Building People Who Build Great Things

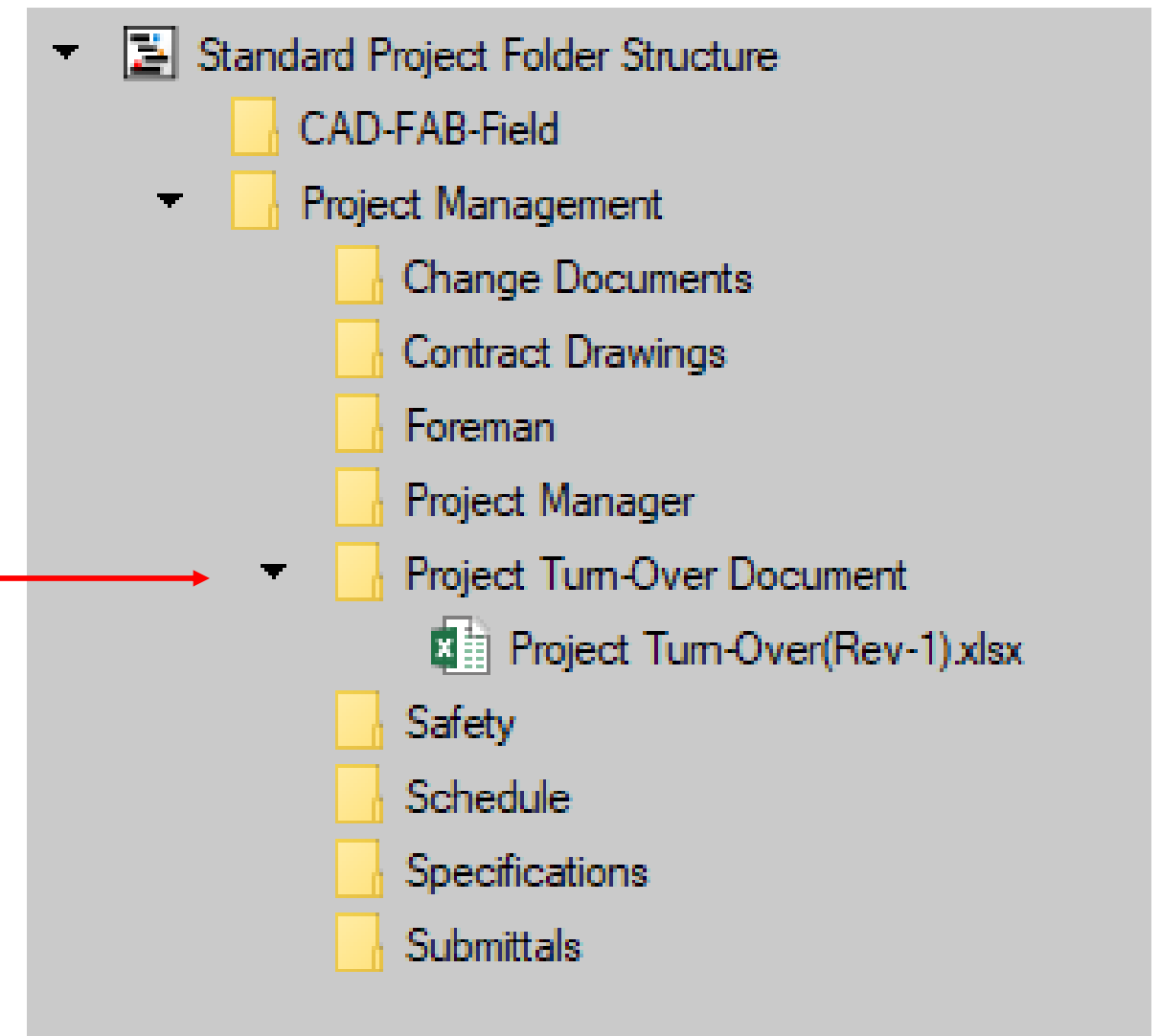
CFF Process Flow Chart



Project Manager meets with supervision to review and fill out the Project Turn Over sheet.

Turn Over Meeting

The Project Turn Over form is located in a standardized folder structure for each project.



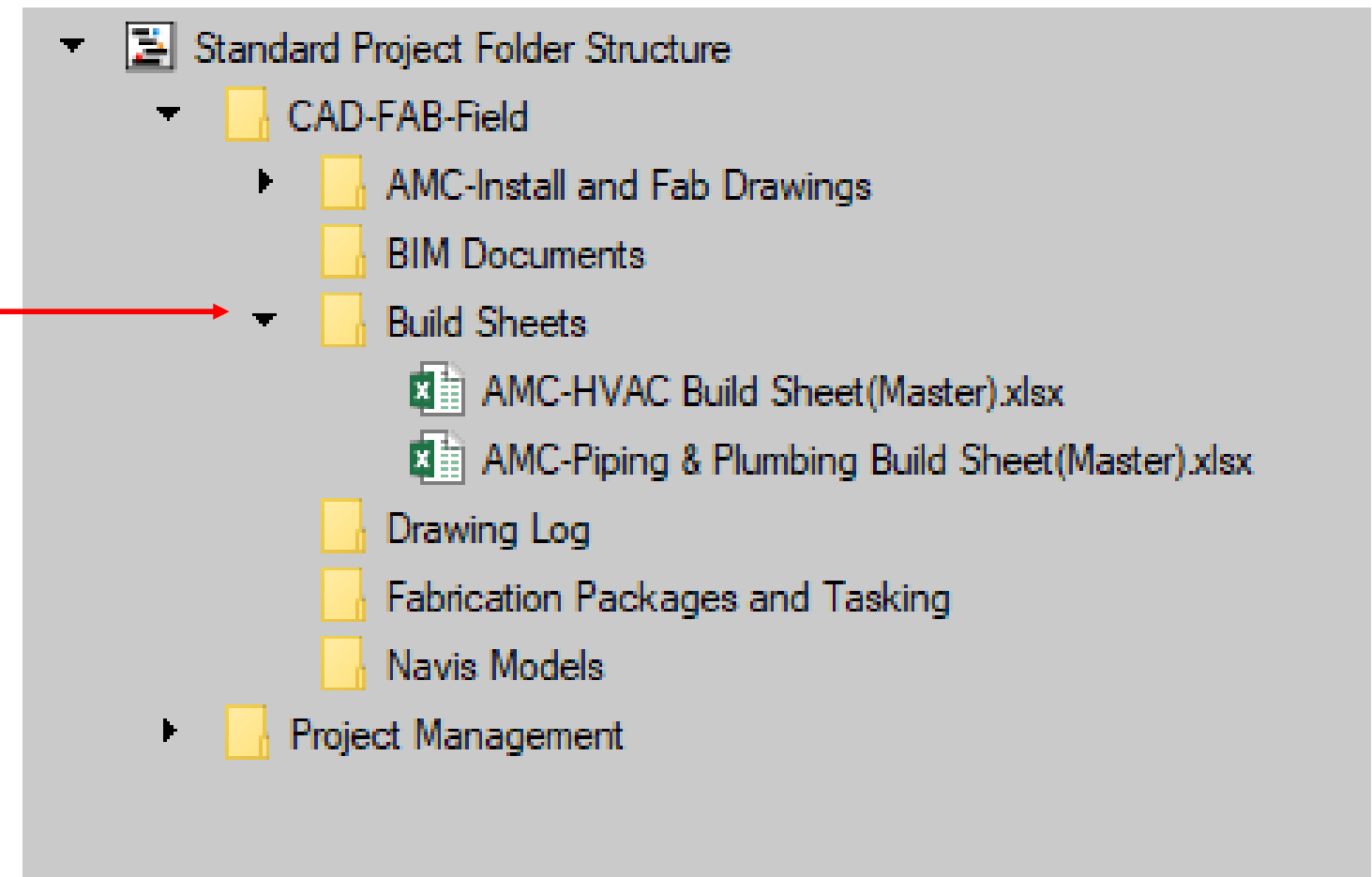
Field Supervision and Fabrication meet, review and fill out the Build Sheets for both Wet and Dry

AMC Build Sheets

Build Sheets are located in the Project Turn Over doc but are also posted in the Build Sheet folder for ease of use.

Build Sheets are filled out with the information needed to support fabrication and installation.

For example pipe type, joint configuration, valves, Duct pressure classes and so forth.



Piping Build Sheet Sample

AMC Build Sheets

Job Name:		Project Number:			Contact Information:				Date:	
AMC-PIPING MATERIAL SPECIFICATIONS					LIQUIDS					
SERVICE DESCRIPTION	SERVICE CODE	SIZE RANGE	PIPE MATERIALS	TYPE OF JOINT	FITTING MATERIALS	FLANGES	GASKETS	VALVES	VALVE CONNECTION	
Domestic Cold Water	CW	1/2" to 2"	Type-L Copper	Solder	Wrought Copper Pressure Fittings	Class-150 Bronze Flanges ASTM B-283, Flat Face	Garlock Full Face	Apollo 94ALF Ball Valve	Threaded	
Domestic Hot Water	HW			Press-Fit				Viega 2971.1ZL Ball Valve	Solder	
Domestic Hot Water Return	HWR							Viega 2970.1ZL Ball Valve	Press-Fit	
Industrial Cold Water	ICW							Nibco Check Valve		
Industrial Hot Water	IHW							Armstrong Circuit Setter -CBV		
Industrial Hot Water Recirc	IHWR							Strainer		
		2-1/2" to 4"	Type-L Copper	Solder-Brazed	Wrought Copper Pressure Fittings	Class-150 Bronze Flanges ASTM B-283, Flat Face	Garlock Full Face	Apollo 94ALF Ball Valve		
				Grooved		Vic Coupling Type:		Nibco LD-20001 Butterfly Vlv		
				Grooved and Solderd						
		5" and Up	Sch-10 Or 40 ASTM A312 Grade TP-304L	Grooved	ASTM A403 Grade WP304 SS ASTM B16.9	Class-150 Stainless Steel Slip-On and Weldneck	Garlock Ring Gasket Garlock Full Face	Nibco GD4765 Butterfly Vlv		
				Grooved and Butt-Weld		Vic Coupling Type:		Viega 2873.81 Butterfly Vlv		
Chilled Water Supply	CHWS	1/2" To 2"	Type-L Copper	Solder	Wrought Copper Pressure Fittings	Class-150 Bronze Flanges ASTM B-283, Flat Face	Garlock Full Face	Apollo 94A Ball Valve	Threaded	
Chilled Water Return	CHWR			Press-Fit				Viega 2973 Ball Valve	Solder	
Heating Water Supply	HWS								Press-Fit	
Heating Water Return	HWR									
Process Chilled Water Supply	PCWS	2-1/2" to 10"	Carbon Steel	Butt-Weld	Sch-40 Carbon Steel ASTM A53, ERW GRADE B	Class 125/150 Weld Neck Class 125/150 Slip-On	1/16" GORE-TEX PTFE 1/16" Garlock Blue-Guard	Nibco LD-20001 Butterfly Vlv Nibco LD-21005 Butterfly Vlv		
Process Chilled Water Return	PCWR									
Condenser Water Supply	CWS			Grooved		VIC 107H Quick-VIC	EHP Gasket			
Condenser Water Return	CWR			Grooved and Butt-Weld						
		12" and Up	Carbon Steel	Butt-Weld	STD-WT Carbon Steel ASTM A53, ERW GRADE B	Class 125/150 Weld Neck Class 125/150 Slip-On	1/16" GORE-TEX PTFE 1/16" Garlock Blue-Guard	Nibco LD-21005 Butterfly Vlv		
				Grooved		VIC 107H Quick-VIC	EHP Gasket			
				Grooved and Butt-Weld						
Notes:					Insulation Schedule					
					Cold Water	Hot Water and Return	Heating Water	Chilled Water		
1					1" and down - 1"	1" and down - 1/2"	1" and down - 1"	1 1/2" and down - 1 1/2"		
2					1 1/4" to 3" - 1 1/2"	1 1/4" to 6" - 1"	1 1/4" to 3" - 1 1/2"	2" to 12" - 2"		
3					4" to 6" - 1 1/2"	8" to 12" - 1 1/2"	4" to 8" - 2"	14" and Over - 2 1/2"		
4					8" to 12" - 1 1/2"					
5										

HVAC Build Sheet Sample

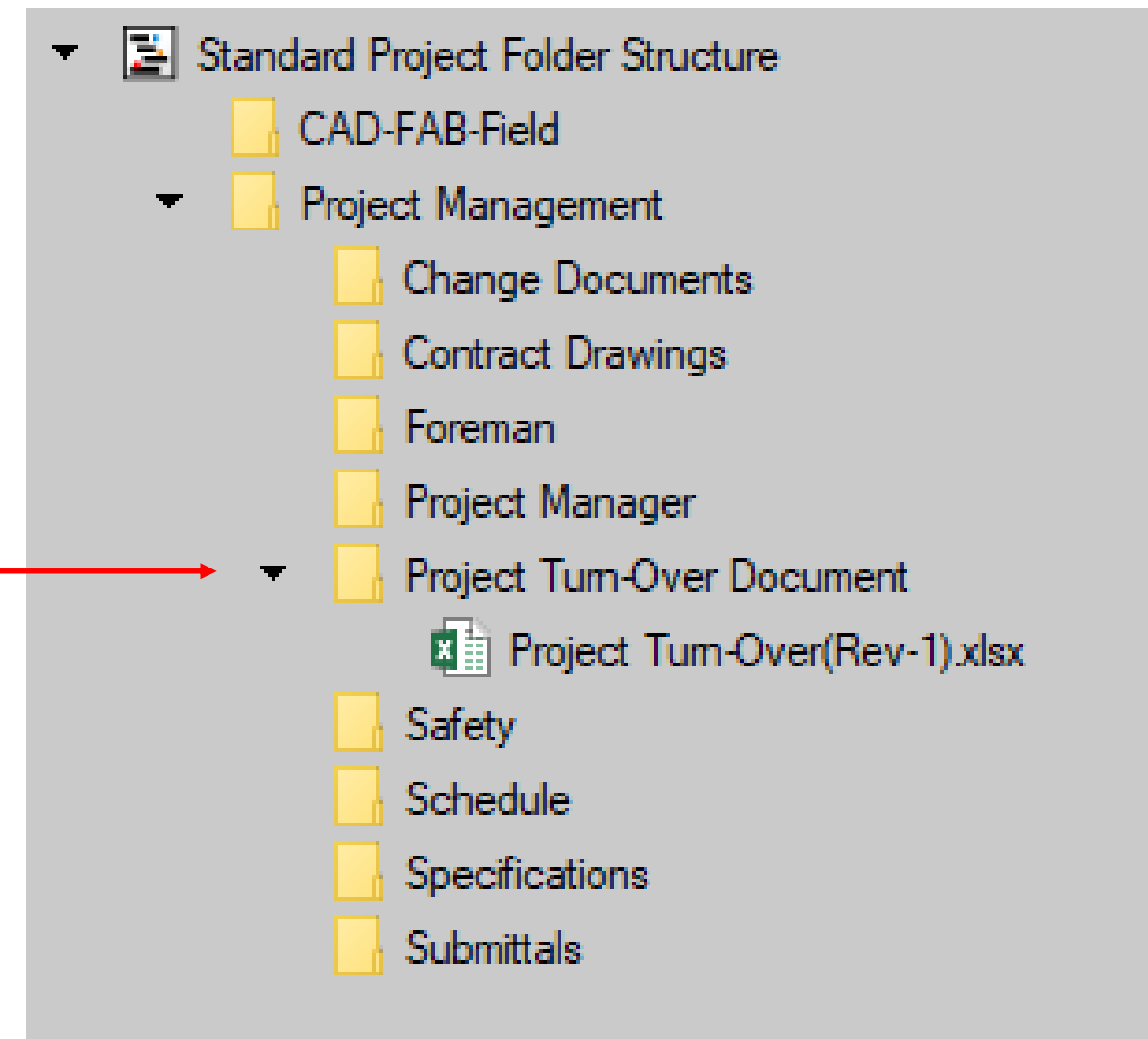
AMC Build Sheets

Job Name:		Project Number:			Contact Information:			Date:	
AMC-HVAC MATERIAL SPECIFICATIONS									
SERVICE DESCRIPTION	SERVICE CODE	PRESSURE CLASS (FOR FAB)	DUCT MATERIAL (SLOPE)	INSULATION THICKNESS (WRAP)	LINER THICKNESS (INCREASE SIZE - Y OR N)	CONNECTORS SQUARE	CONNECTORS ROUND	Deliverable	Hangers (GTP-yes or no)
Med. pressure - Fan to TU	MPS	3"	GALVANIZED	2" Except exposed	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
Low Pressure-Downsteam of TU	LPS	2"	GALVANIZED	1.5" on non-lined	1" (Y)	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
Return Air	RA	2"	GALVANIZED	1.5"	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
General Exhaust	EA	2"	GALVANIZED	na	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
Outside Air	OA	2"	GALVANIZED	3"	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
Transfer Air	T	2"	GALVANIZED	na	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	Field Takeoff	NO
Fume Exhaust Exht-VAV to fan	MFE	2"	16g-STAINLESS 304	na	na	NA	butt weld shop, 1/2 FO Field Conn	Spools	Bbands(Y)
Fume Exhaust Exht-Hood to VAV	LFE	2"	16g-STAINLESS 304	na	na	NA	butt weld shop, 1/2 FO Field Conn	Spools	Bbands(Y)
Dish Washer Exhaust	DWE	2"	16g-STAINLESS 304 (1%)	na	na	WELDED (1/2" FLANGE FOR FIELD?)	WELDED (1/2" FLANGE FOR FIELD?)	Spools	Bbands-Strut(Y)
Grease Duct	GD	2"	16g-Black Iron	5" fire wrap	na	butt weld shop, 1.5x1.5 CF Field	NA	Spools	Strut(Y)
Dust Collector-Blow Pipe	Specialty	NA	NA			?	?		
Boiler Breeching	Specialty	NA	NA			?	?		
Hotwater Heater vent/mua	Specialty	NA	NA			?	?		
Commercial Clothes Dryer	Specialty	2"	ALUMINUM			?	?		
Domestic Clothes Dryer	Specialty	NA	ALUMINUM			?	?		
Notes:									
1. ACCESS DOORS REQUIRED AT EVERY CHANGE OF DIRECTION					6. OFFSETS PERFERED OVER ELBOWS BOTH SQUARE AND ROUND				
2. PROVIDE HANGERS FOR TU BOXES					7. BOTTOM FLAT TRANSITIONS AFTER EQU WHEN POSSIBLE				
3. DUCT LABELS ON ISO DRAWINGS ONLY					8. Unistrut on square duct over 40" wide, Belly Bands for round over 26" Wide				
4. PULL ALL DIMENSIONS FROM NEAREST WALL					9				
5. PROVIDE FLEX ON BOTH ENDS OF TU BOX					10				

Field Supervision, Fabrication, CAD and Project Management meet review and fill out the “Go Build It Kickoff” document.

Pre-Fabrication Meeting or “Go-Build It”


The Go Build it Kickoff doc is located in the Project Turn Over form.



Go Build It Kickoff sample

Information provided and shared at the Pre-Fab meeting is essential to the success of pre-construction efforts. Everything from scope, level of detail, hangers, schedule, total station requirements, what's not being fabricated and why is discussed. This information also is used in conjunction with the Build Sheets. This is also a good time to start working on a tasking plan.

Pre-Fabrication Meeting



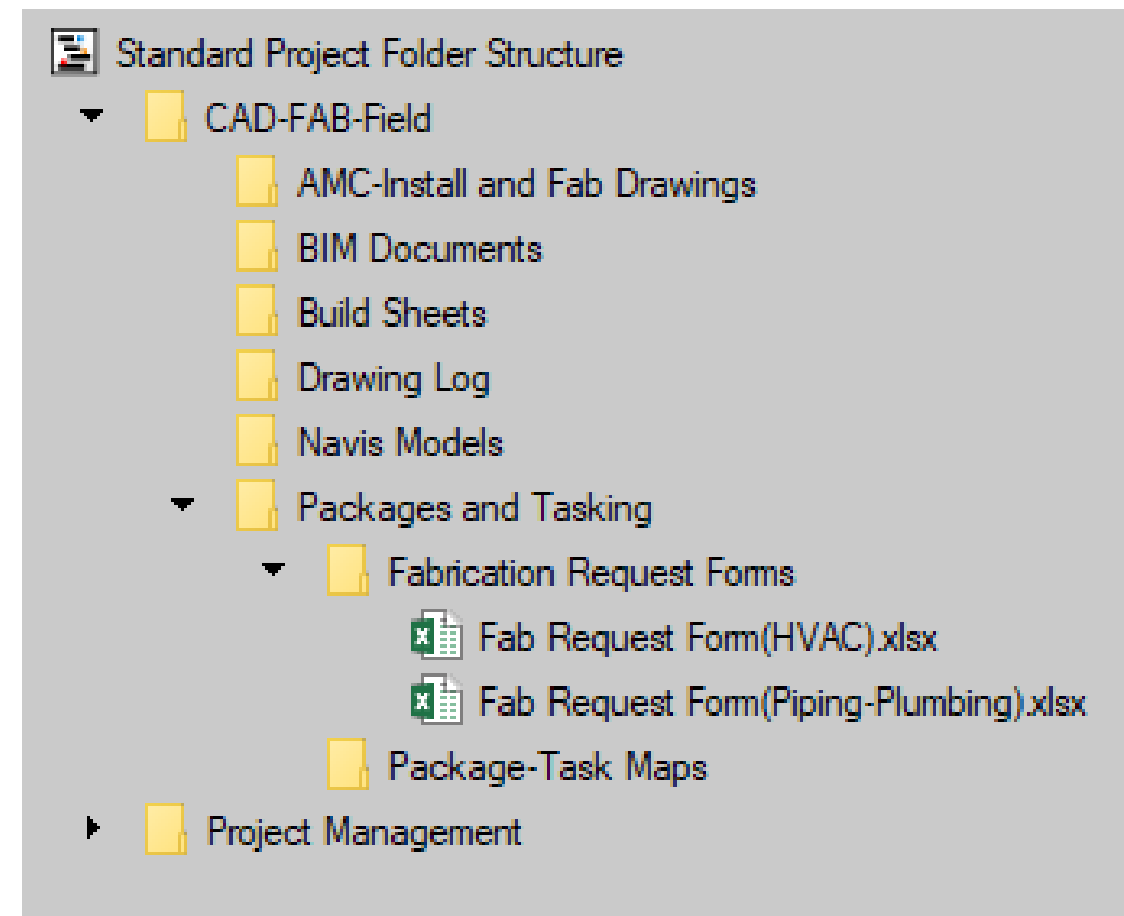
GO BUILD IT KICKOFF

PROJECT		
JOB NO		
DATE		
A FABRICATION TO BE DISCUSSED (Everything will be fabricated except the following items)		
1.00	Underground	
1.01	Hangers	
1.02	Overhead	
1.03	Gang bathrooms	
1.04	In wall risers	
1.05	Skids	
B SCHEDULE		
2.00	Tasking complete	
2.01	Piping specification sheet complete	
2.03	Fabrication request form complete	SET UP WEEKLY MEETING.
C SUBMITTALS		
3.00	Status	

Field Supervision and Fabrication collaborate and fill out the FRF. Weekly meetings are scheduled to review the information and due dates.

The FRF sheets are located in the Tasking folder.

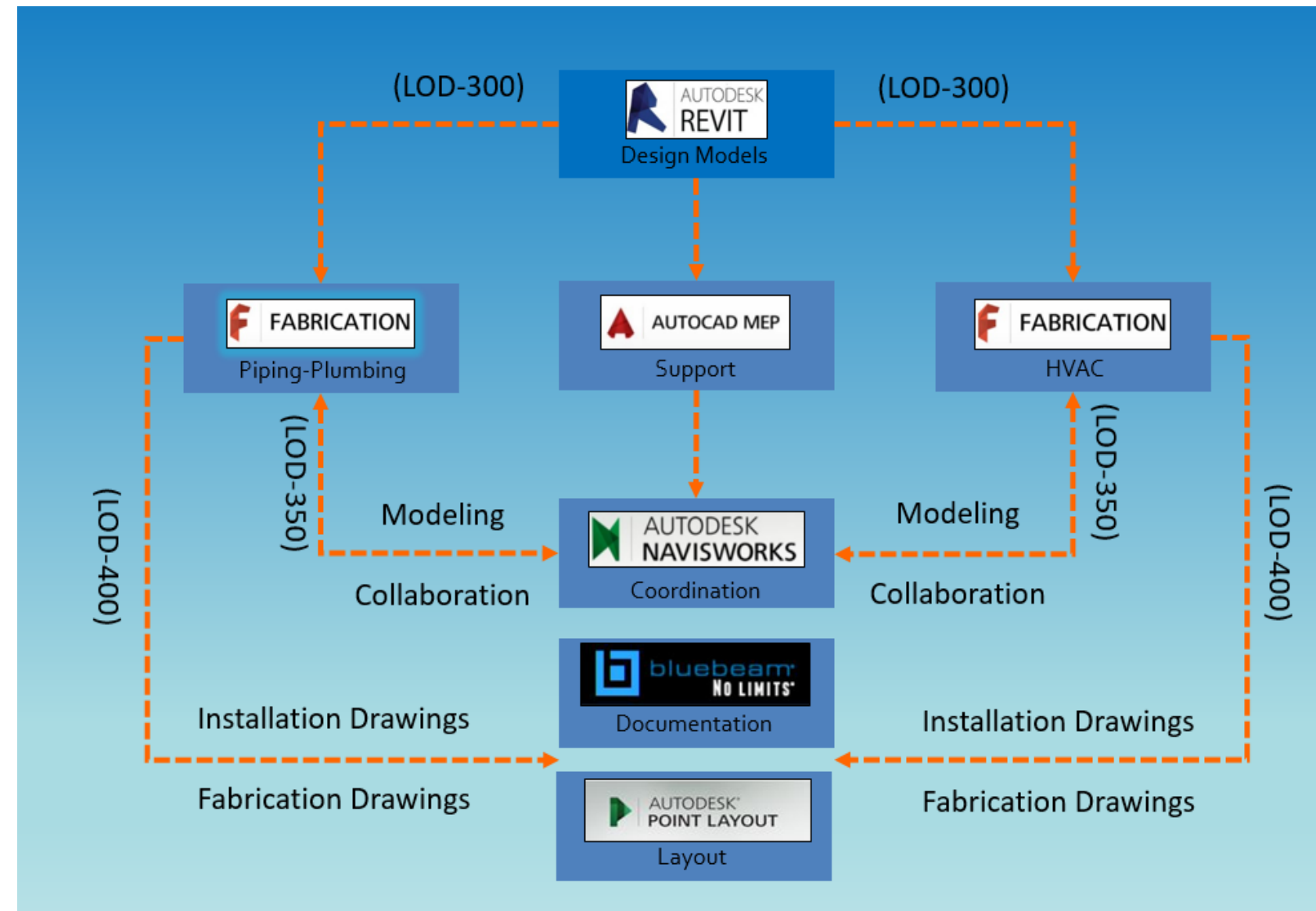
The FRF is a sheet containing fab package due dates. Keeping the information and due dates current helps everyone plan and manage resources.



Modeling and Coordination “BIM” begins when the CAD team has the information it needs to start the process. Mechanical and Plumbing systems are then modeled in a virtual project to insure constructability.

The general flow of modeling efforts and the software used is shown on the right

1. Design Models
2. Pulled into a Construction Model
3. Systems are coordinated between the other Disciplines and Building Envelope
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3D Modeling and Coordination

The Construction Team and BIM group schedule as many meetings as needed to review Modeling and Coordination efforts.

There are several things to consider during these meetings

- Schedule and Milestones
- System Configuration
- Model Detail
- Value Engineering
- Safety

“Effective collaboration is having the right people with the right goals discussing the right topics armed with the right information. To be truly useful, this information must be shared among the relevant team members”

Installation-Fabrication drawings are issued after Coordination is complete and the Model configuration is approved. This starts the cycle of drawing or “Hard Copy” reviews and approvals.

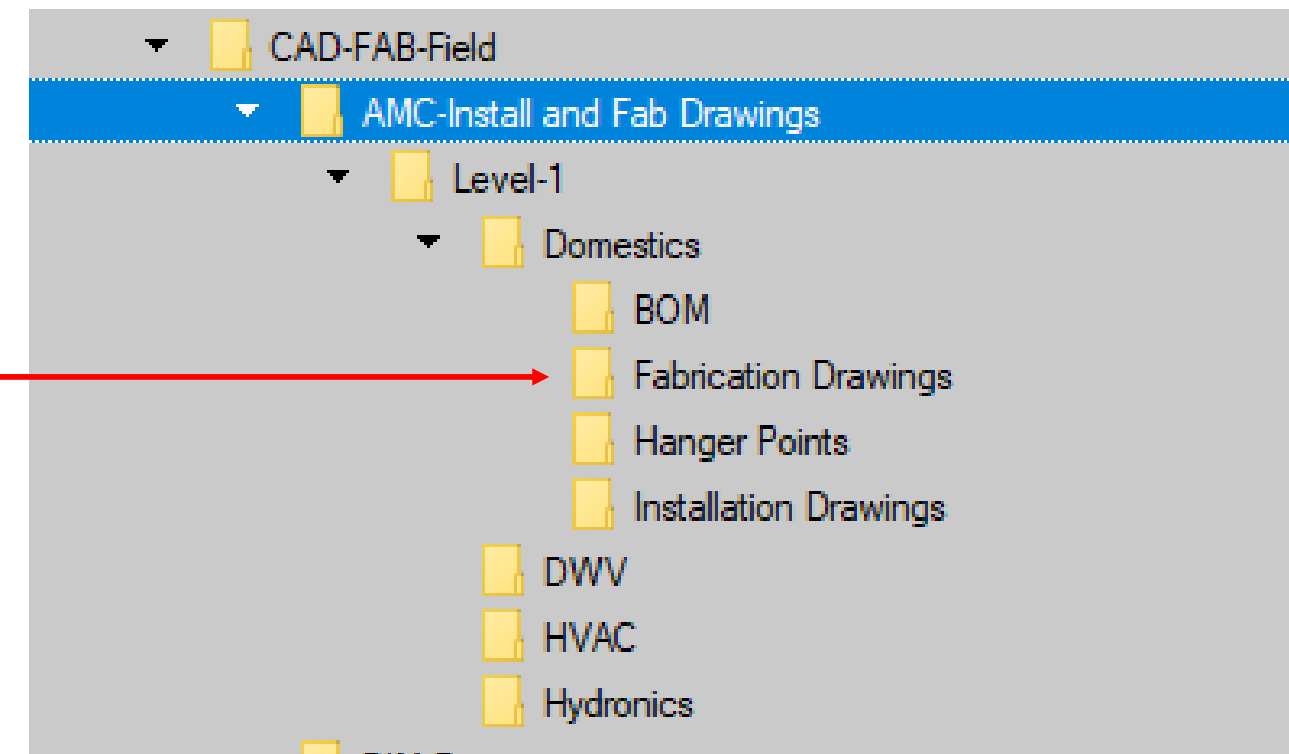
Installation Drawing Cycle

- Alpha, issued for internal review and approval.
Drawing cycle begins with Rev-A
- Delta, issued for Engineer/Client review and approval.
Drawing cycle begins with Rev-0
- Issued For Construction (IFC) drawings are issued after all previous comments are incorporated. Drawing cycles typically begin at Rev-1

Install Drawings –
Review and
Approval-Fabrication
Packages

Fabrication Packages and Spool Drawings

- Pipe, Plumbing and HVAC fabrication drawings begin after the IFC installation drawings are issued.
- Fabrication drawing efforts follow the dates listed on the FRF.
- Fabrication and Spool Drawings are posted in the standard folder structure.

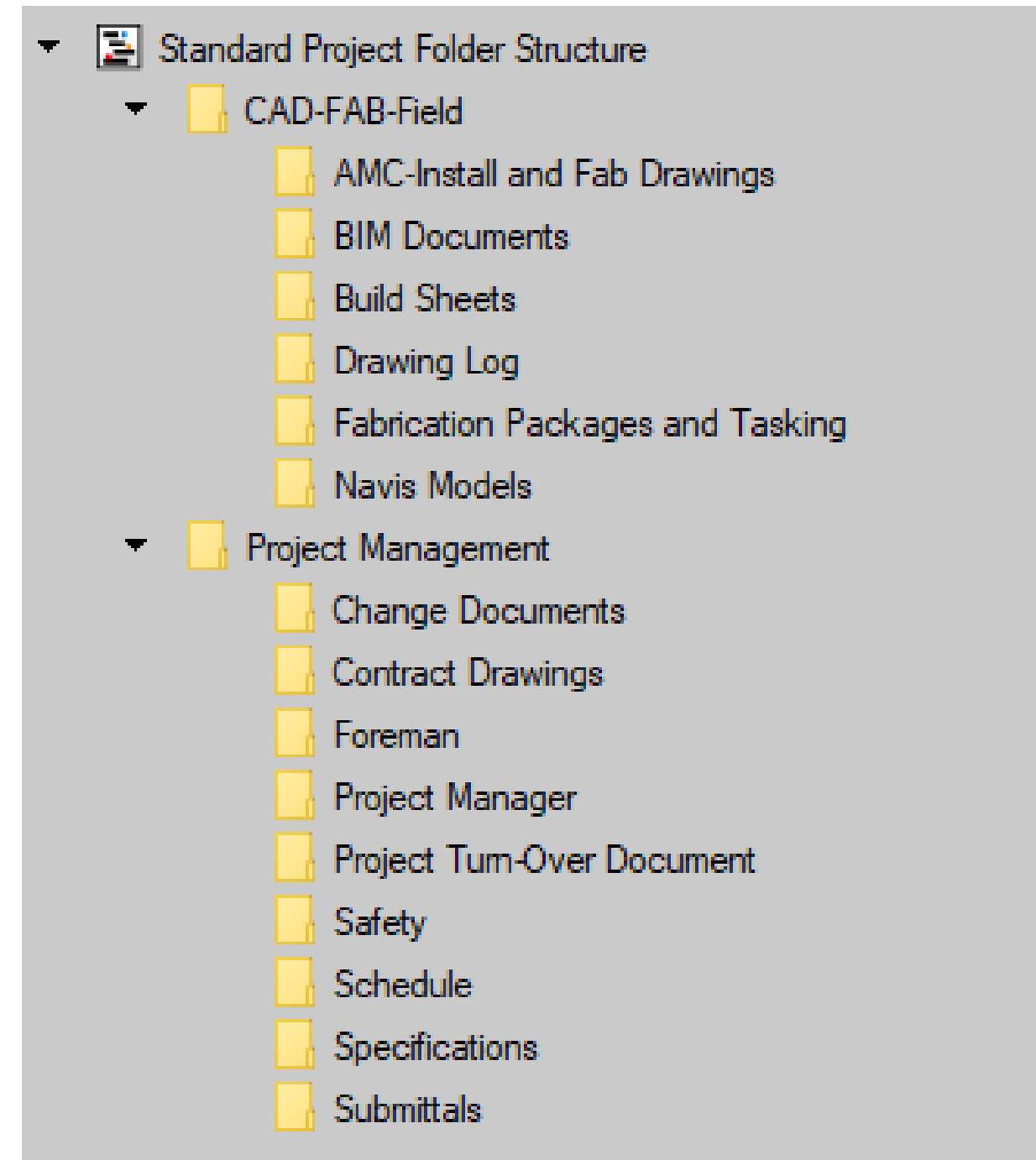
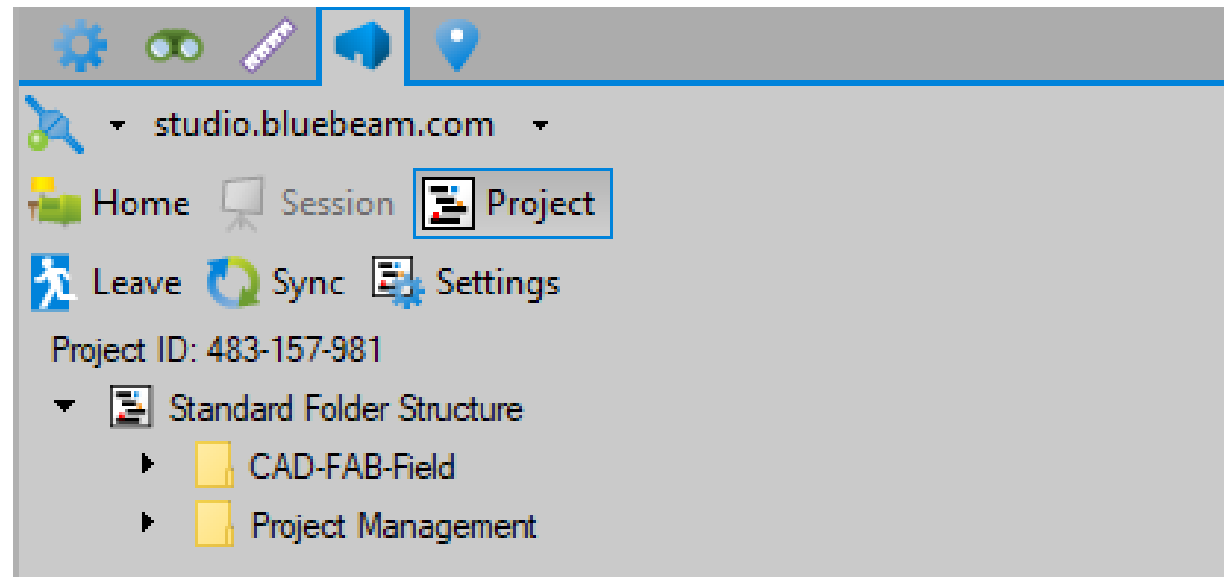


Fabrication Packages

Information and Distribution

- Drawings and Fabrication Packages are stored and shared on the Cloud
- Bluebeam Studio is currently being used for a majority of projects
- A common folder structure is used to insure the information is easily found and maintained
- Two main folders exist, one is managed by the Project Team and the other by the CFF team
- Content within the folders is always up to date
- Folders can be added or removed as needed for various project needs

Bluebeam Studio



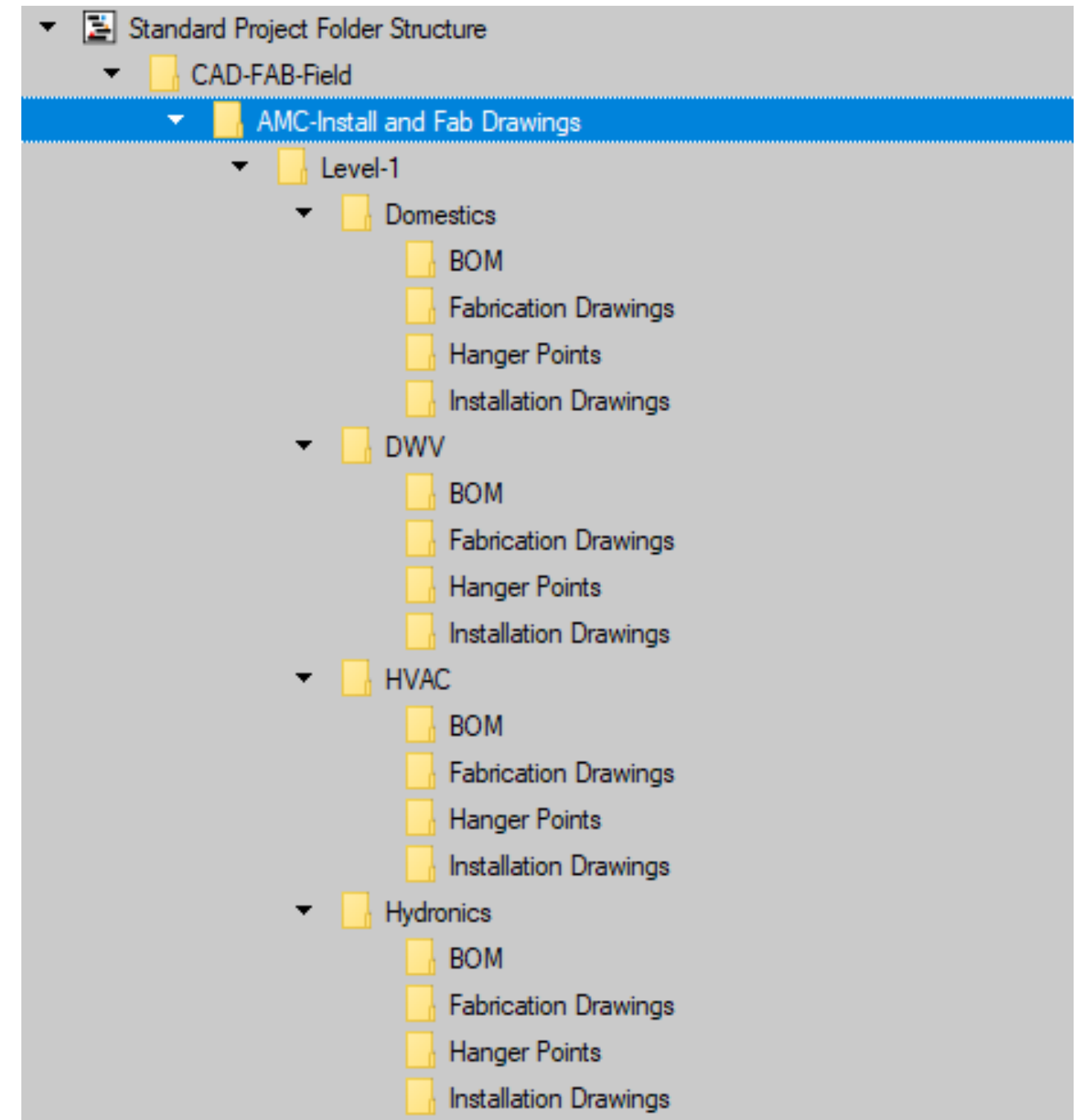
Distribute and Share Information

Each Main Folder contains Sub Folders used to organize different kinds of information

AMC-Install and Fab Drawings

Standard Folder Structure

All drawings and information are located in a By-Level By-Discipline folder Scheme

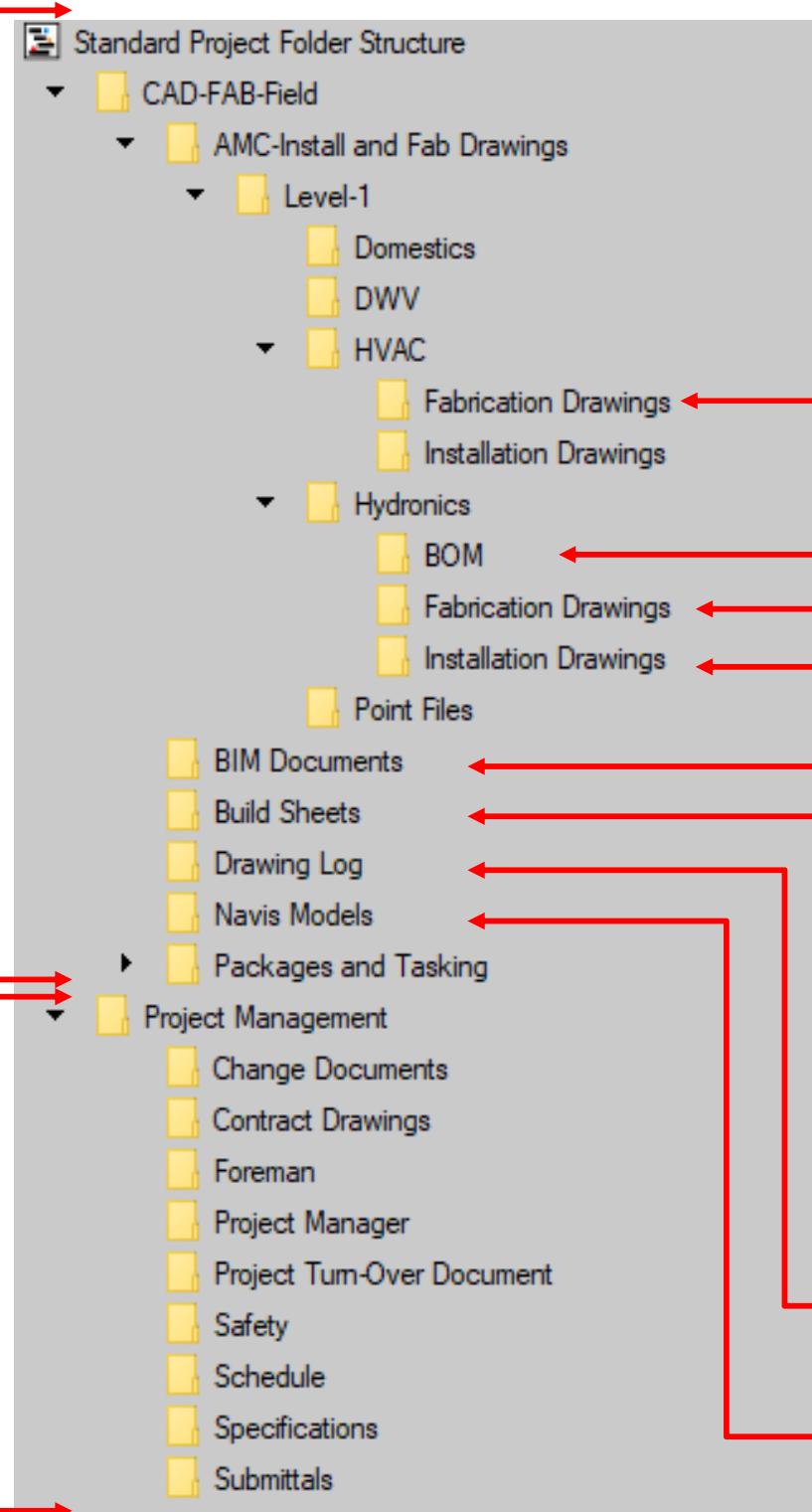


Standard Folder Structure

Note:
 This structure can be adjusted
 To account for specific projects
 needs. The intent is to keep
 consistent for the majority
 of our projects.

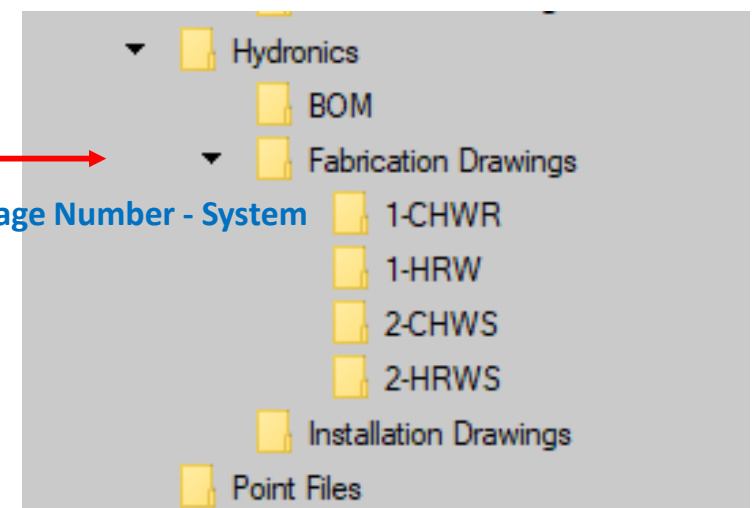
Content Managed
 by CFF Team

Folders and Content
 Managed by PM / PE



- Drawings/Spools/Packages for Fabrication. The Field and Shop work together and manage what items are ready for release and when they are needed.

- Overall Piping-Plumbing Bill Of Materials. Issued once Coordination is complete and Rev-0 drawings are distributed. Used early on for Material Procurement.



Package Number - System

- Installation Drawings.

- BIM Execution Plan, Schedule, Coordination Log.
- Build Sheets

- Drawing Log, updated and maintained by the Document Administrator.

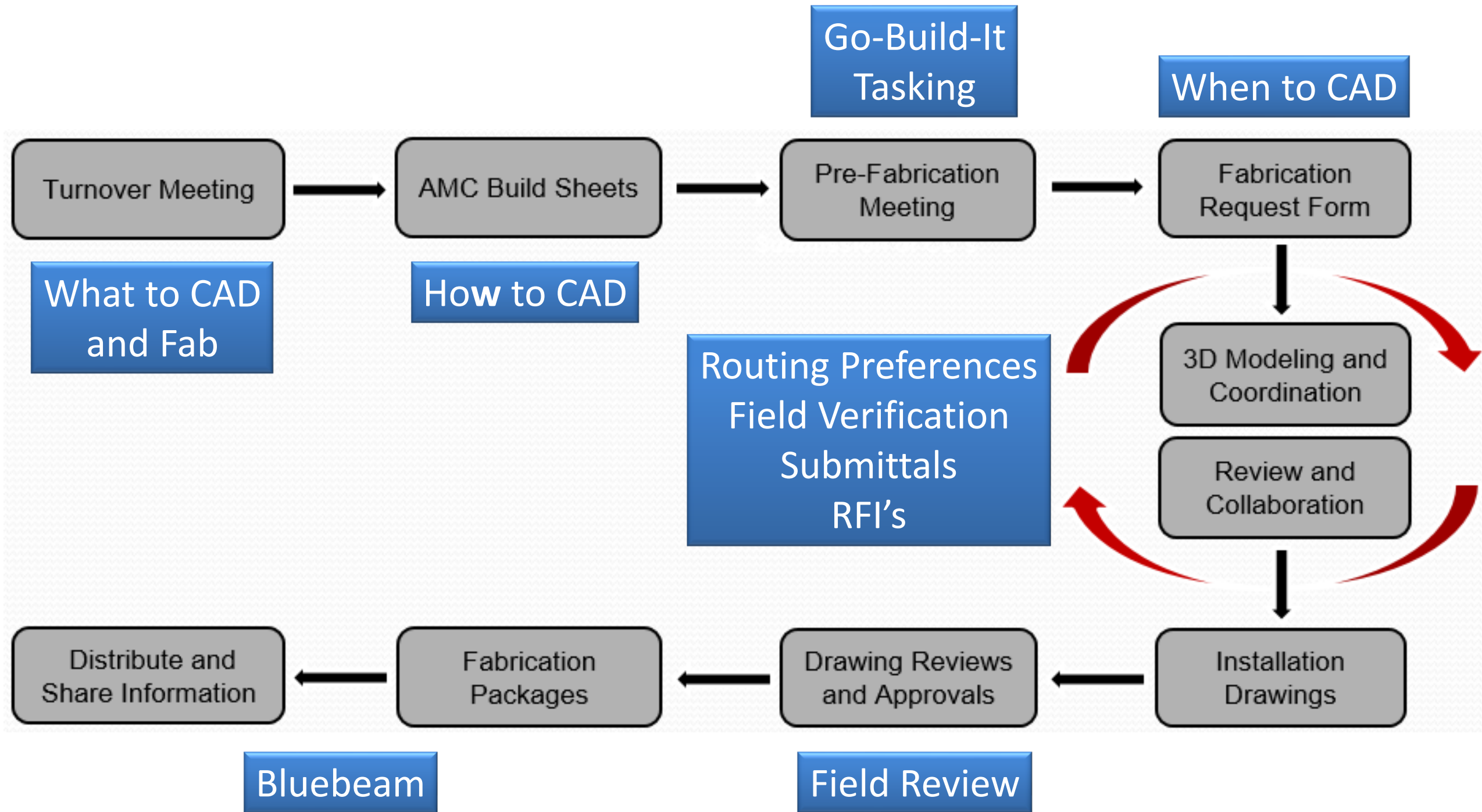
- Current Navis Models issued for Field Review and use.



CAD → FAB → FIELD

Apollo
MECHANICAL
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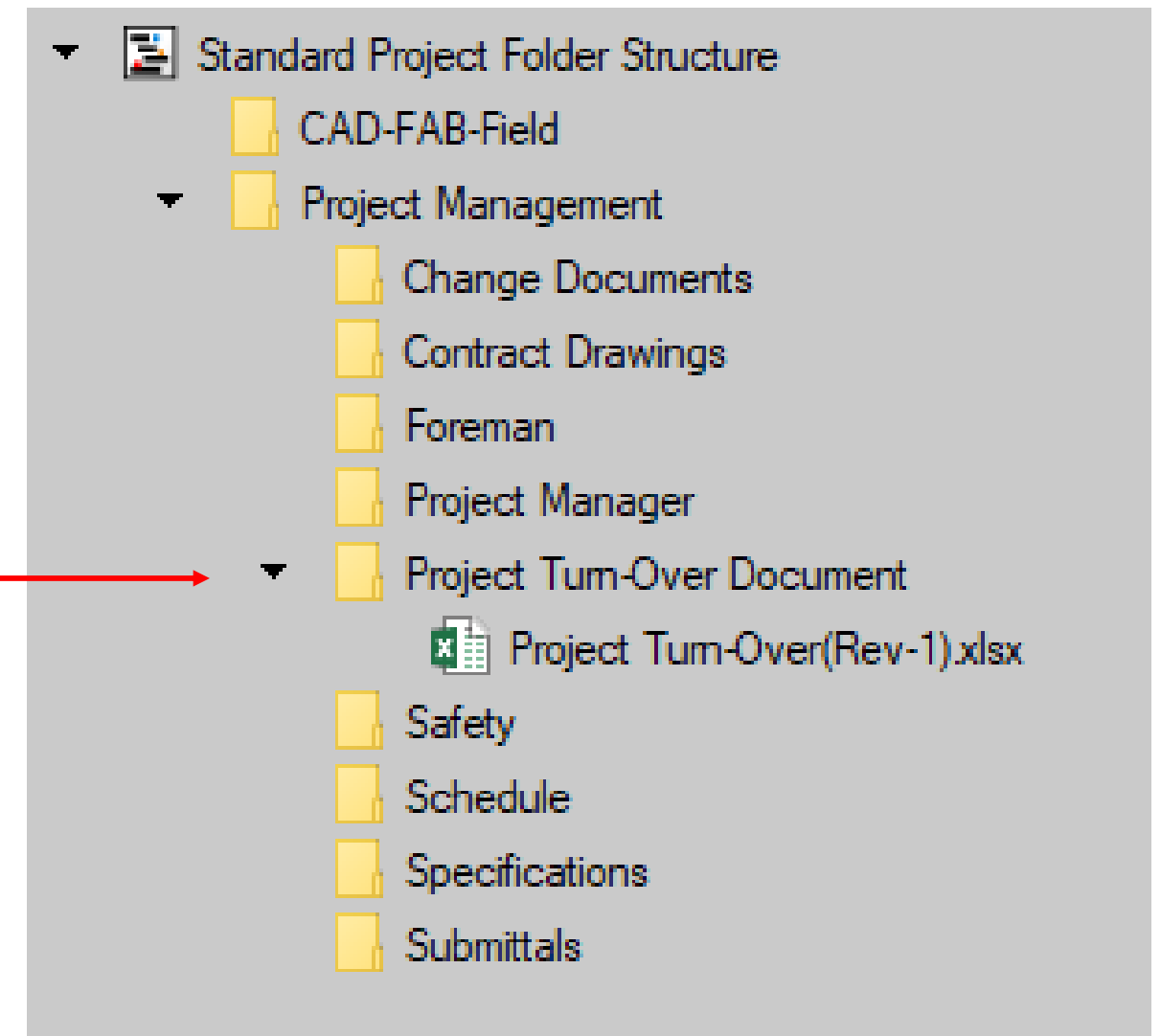
CFF Process Flow Chart



Project Manager meets with supervision to review and fill out the Project Turn Over sheet.

Turn Over Meeting

The Project Turn Over form is located in a standardized folder structure for each project.



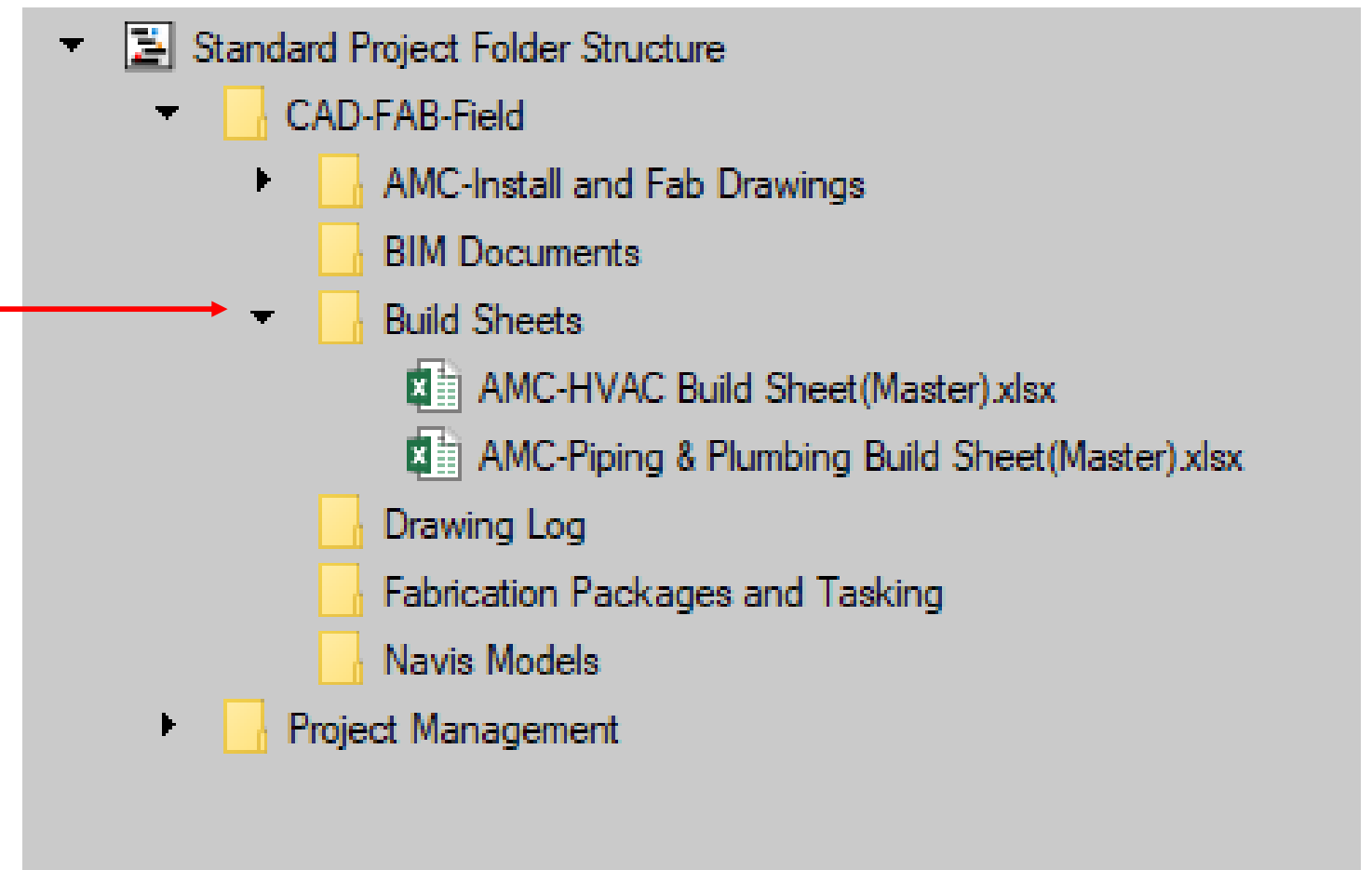
Field Supervision and Fabrication meet, review and fill out the Build Sheets for both Wet and Dry

AMC Build Sheets

Build Sheets are located in the Project Turn Over doc but are also posted in the Build Sheet folder for ease of use.

Build Sheets are filled out with the information needed to support fabrication and installation.

For example pipe type, joint configuration, valves, Duct pressure classes and so forth.



Piping Build Sheet Sample

AMC Build Sheets

Job Name:		Project Number:			Contact Information:				Date:	
AMC-PIPING MATERIAL SPECIFICATIONS					LIQUIDS					
SERVICE DESCRIPTION	SERVICE CODE	SIZE RANGE	PIPE MATERIALS	TYPE OF JOINT	FITTING MATERIALS	FLANGES	GASKETS	VALVES	VALVE CONNECTION	
Domestic Cold Water	CW	1/2" to 2"	Type-L Copper	Solder	Wrought Copper Pressure Fittings	Class-150 Bronze Flanges ASTM B-283, Flat Face	Garlock Full Face	Apollo 94ALF Ball Valve	Threaded	
Domestic Hot Water	HW			Press-Fit				Viega 2971.1ZL Ball Valve	Solder	
Domestic Hot Water Return	HWR							Viega 2970.1ZL Ball Valve	Press-Fit	
Industrial Cold Water	ICW							Nibco Check Valve		
Industrial Hot Water	IHW							Armstrong Circuit Setter -CBV		
Industrial Hot Water Recirc	IHWR							Strainer		
		2-1/2" to 4"	Type-L Copper	Solder-Brazed	Wrought Copper Pressure Fittings	Class-150 Bronze Flanges ASTM B-283, Flat Face	Garlock Full Face	Apollo 94ALF Ball Valve		
				Grooved		Vic Coupling Type:		Nibco LD-20001 Butterfly Vlv		
				Grooved and Solderd						
		5" and Up	Sch-10 Or 40 ASTM A312 Grade TP-304L	Grooved	ASTM A403 Grade WP304 SS ASTM B16.9	Class-150 Stainless Steel Slip-On and Weldneck	Garlock Ring Gasket Garlock Full Face	Nibco GD4765 Butterfly Vlv		
				Grooved and Butt-Weld		Vic Coupling Type:		Viega 2873.81 Butterfly Vlv		
Chilled Water Supply	CHWS	1/2" To 2"	Type-L Copper	Solder	Wrought Copper Pressure Fittings	Class-150 Bronze Flanges ASTM B-283, Flat Face	Garlock Full Face	Apollo 94A Ball Valve	Threaded	
Chilled Water Return	CHWR			Press-Fit				Viega 2973 Ball Valve	Solder	
Heating Water Supply	HWS								Press-Fit	
Heating Water Return	HWR									
Process Chilled Water Supply	PCWS	2-1/2" to 10"	Carbon Steel	Butt-Weld	Sch-40 Carbon Steel ASTM A53, ERW GRADE B	Class 125/150 Weld Neck Class 125/150 Slip-On	1/16" GORE-TEX PTFE 1/16" Garlock Blue-Guard	Nibco LD-20001 Butterfly Vlv Nibco LD-21005 Butterfly Vlv		
Process Chilled Water Return	PCWR									
Condenser Water Supply	CWS			Grooved		VIC 107H Quick-VIC	EHP Gasket			
Condenser Water Return	CWR			Grooved and Butt-Weld						
		12" and Up	Carbon Steel	Butt-Weld	STD-WT Carbon Steel ASTM A53, ERW GRADE B	Class 125/150 Weld Neck Class 125/150 Slip-On	1/16" GORE-TEX PTFE 1/16" Garlock Blue-Guard	Nibco LD-21005 Butterfly Vlv		
				Grooved		VIC 107H Quick-VIC	EHP Gasket			
				Grooved and Butt-Weld						
Notes:					Insulation Schedule					
					Cold Water	Hot Water and Return	Heating Water	Chilled Water		
1					1" and down - 1"	1" and down - 1/2"	1" and down - 1"	1 1/2" and down - 1 1/2"		
2					1 1/4" to 3" - 1 1/2"	1 1/4" to 6" - 1"	1 1/4" to 3" - 1 1/2"	2" to 12" - 2"		
3					4" to 6" - 1 1/2"	8" to 12" - 1 1/2"	4" to 8" - 2"	14" and Over - 2 1/2"		
4					8" to 12" - 1 1/2"					
5										

HVAC Build Sheet Sample

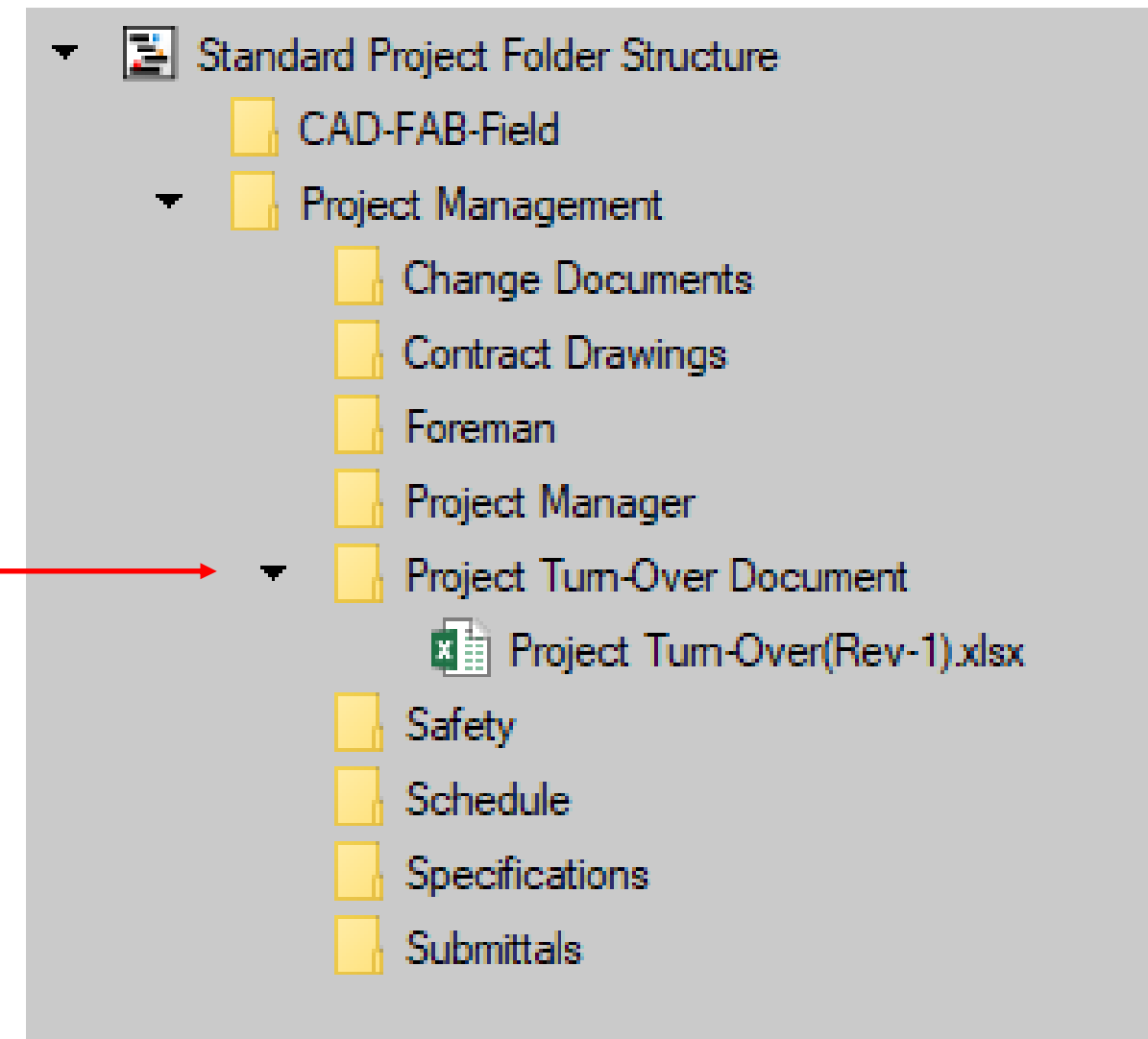
AMC Build Sheets

Job Name:		Project Number:			Contact Information:			Date:	
AMC-HVAC MATERIAL SPECIFICATIONS									
SERVICE DESCRIPTION	SERVICE CODE	PRESSURE CLASS (FOR FAB)	DUCT MATERIAL (SLOPE)	INSULATION THICKNESS (WRAP)	LINER THICKNESS (INCREASE SIZE - Y OR N)	CONNECTORS SQUARE	CONNECTORS ROUND	Deliverable	Hangers (GTP-yes or no)
Med. pressure - Fan to TU	MPS	3"	GALVANIZED	2" Except exposed	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
Low Pressure-Downsteam of TU	LPS	2"	GALVANIZED	1.5" on non-lined	1" (Y)	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
Return Air	RA	2"	GALVANIZED	1.5"	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
General Exhaust	EA	2"	GALVANIZED	na	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
Outside Air	OA	2"	GALVANIZED	3"	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	ISO/Reports	Gripple(Y)
Transfer Air	T	2"	GALVANIZED	na	na	TDC, S&D 12X12 AND SMALLER	COUPLER - ACCUFLANGE @ 26+	Field Takeoff	NO
Fume Exhaust Exht-VAV to fan	MFE	2"	16g-STAINLESS 304	na	na	NA	butt weld shop, 1/2 FO Field Conn	Spools	Bbands(Y)
Fume Exhaust Exht-Hood to VAV	LFE	2"	16g-STAINLESS 304	na	na	NA	butt weld shop, 1/2 FO Field Conn	Spools	Bbands(Y)
Dish Washer Exhaust	DWE	2"	16g-STAINLESS 304 (1%)	na	na	WELDED (1/2" FLANGE FOR FIELD?)	WELDED (1/2" FLANGE FOR FIELD?)	Spools	Bbands-Strut(Y)
Grease Duct	GD	2"	16g-Black Iron	5" fire wrap	na	butt weld shop, 1.5x1.5 CF Field	NA	Spools	Strut(Y)
Dust Collector-Blow Pipe	Specialty	NA	NA			?	?		
Boiler Breeching	Specialty	NA	NA			?	?		
Hotwater Heater vent/mua	Specialty	NA	NA			?	?		
Commercial Clothes Dryer	Specialty	2"	ALUMINUM			?	?		
Domestic Clothes Dryer	Specialty	NA	ALUMINUM			?	?		
Notes:									
1. ACCESS DOORS REQUIRED AT EVERY CHANGE OF DIRECTION					6. OFFSETS PERFERED OVER ELBOWS BOTH SQUARE AND ROUND				
2. PROVIDE HANGERS FOR TU BOXES					7. BOTTOM FLAT TRANSITIONS AFTER EQU WHEN POSSIBLE				
3. DUCT LABELS ON ISO DRAWINGS ONLY					8. Unistrut on square duct over 40" wide, Belly Bands for round over 26" Wide				
4. PULL ALL DIMENSIONS FROM NEAREST WALL					9				
5. PROVIDE FLEX ON BOTH ENDS OF TU BOX					10				

Field Supervision, Fabrication, CAD and Project Management meet review and fill out the “Go Build It Kickoff” document.

Pre-Fabrication Meeting or “Go-Build It”


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Go Build It Kickoff sample

Information provided and shared at the Pre-Fab meeting is essential to the success of pre-construction efforts. Everything from scope, level of detail, hangers, schedule, total station requirements, what's not being fabricated and why is discussed. This information also is used in conjunction with the Build Sheets. This is also a good time to start working on a tasking plan.

Pre-Fabrication Meeting



GO BUILD IT KICKOFF

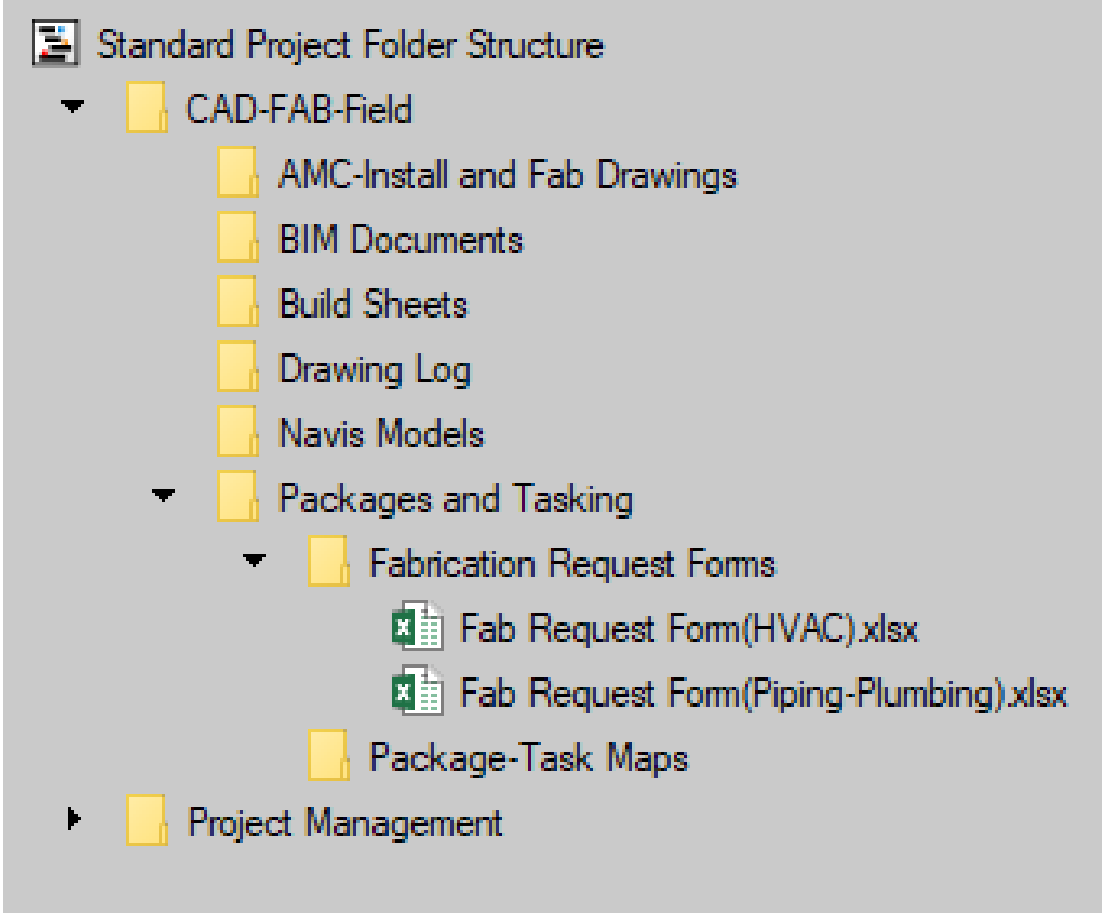
PROJECT	
JOB NO	
DATE	
A FABRICATION TO BE DISCUSSED (Everything will be fabricated except the following items)	
1.00	Underground
1.01	Hangers
1.02	Overhead
1.03	Gang bathrooms
1.04	In wall risers
1.05	Skids
B SCHEDULE	
2.00	Tasking complete
2.01	Piping specification sheet complete
2.03	Fabrication request form complete
	SET UP WEEKLY MEETING.
C SUBMITTALS	
3.00	Status

Field Supervision and Fabrication collaborate and fill out the FRF. Weekly meetings are scheduled to review the information and due dates.

Fabrication Request Forms

The FRF sheets are located in the Tasking folder.

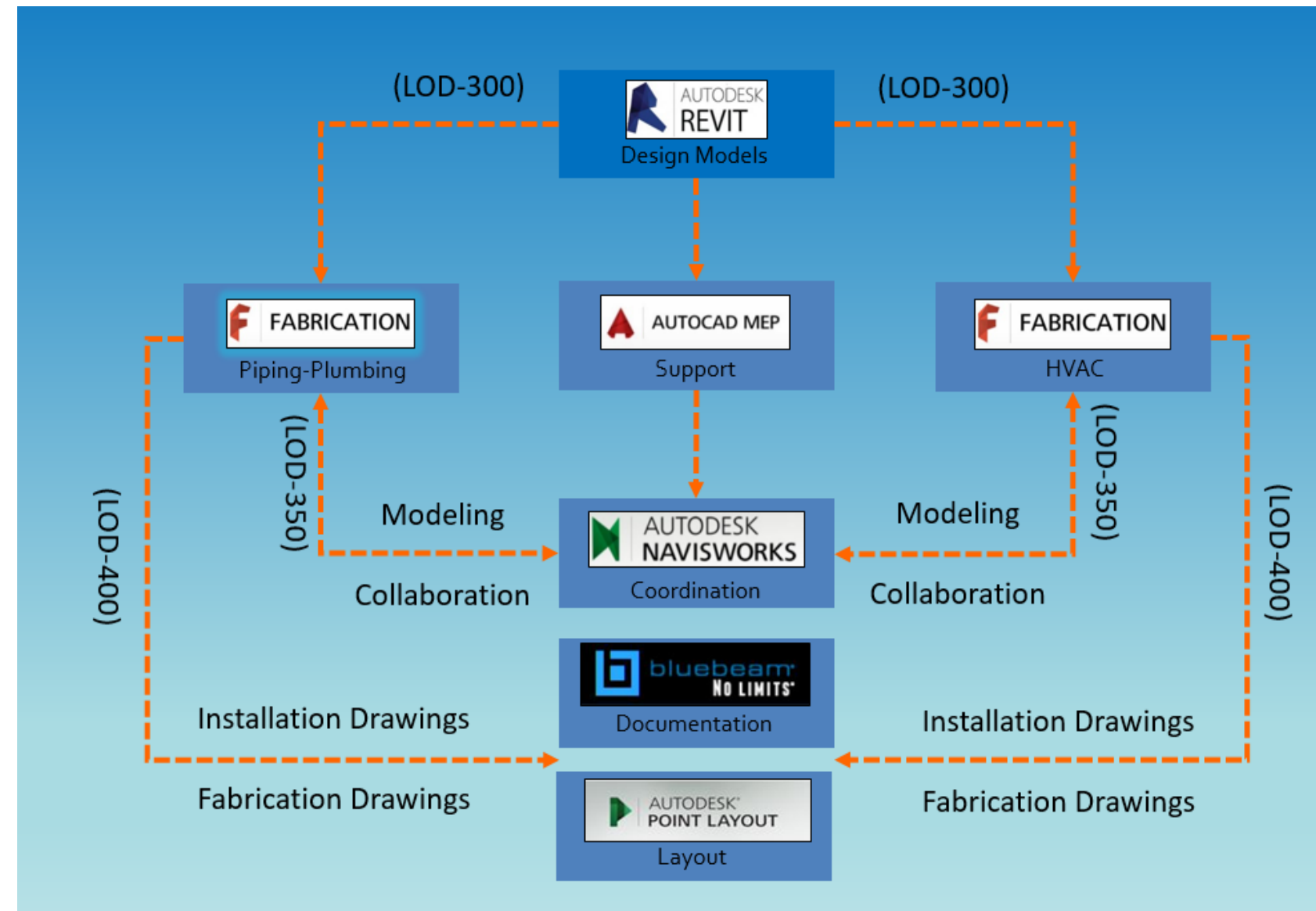
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- System Configuration
- Model Detail
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Installation-Fabrication drawings are issued after Coordination is complete and the Model configuration is approved. This starts the cycle of drawing or “Hard Copy” reviews and approvals.

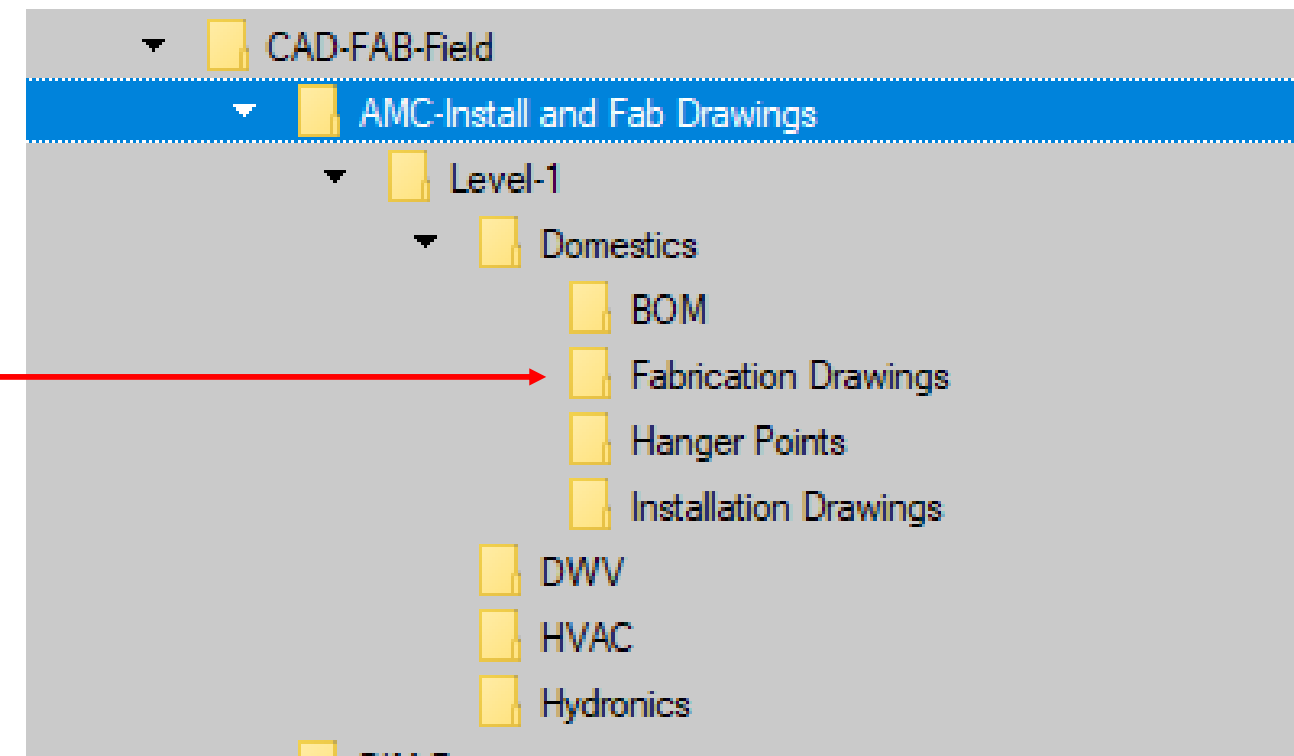
Installation Drawing Cycle

- Alpha, issued for internal review and approval.
Drawing cycle begins with Rev-A
- Delta, issued for Engineer/Client review and approval.
Drawing cycle begins with Rev-0
- Issued For Construction (IFC) drawings are issued after all previous comments are incorporated. Drawing cycles typically begin at Rev-1

Install Drawings –
Review and
Approval-Fabrication
Packages

Fabrication Packages and Spool Drawings

- Pipe, Plumbing and HVAC fabrication drawings begin after the IFC installation drawings are issued.
- Fabrication drawing efforts follow the dates listed on the FRF.
- Fabrication and Spool Drawings are posted in the standard folder structure.

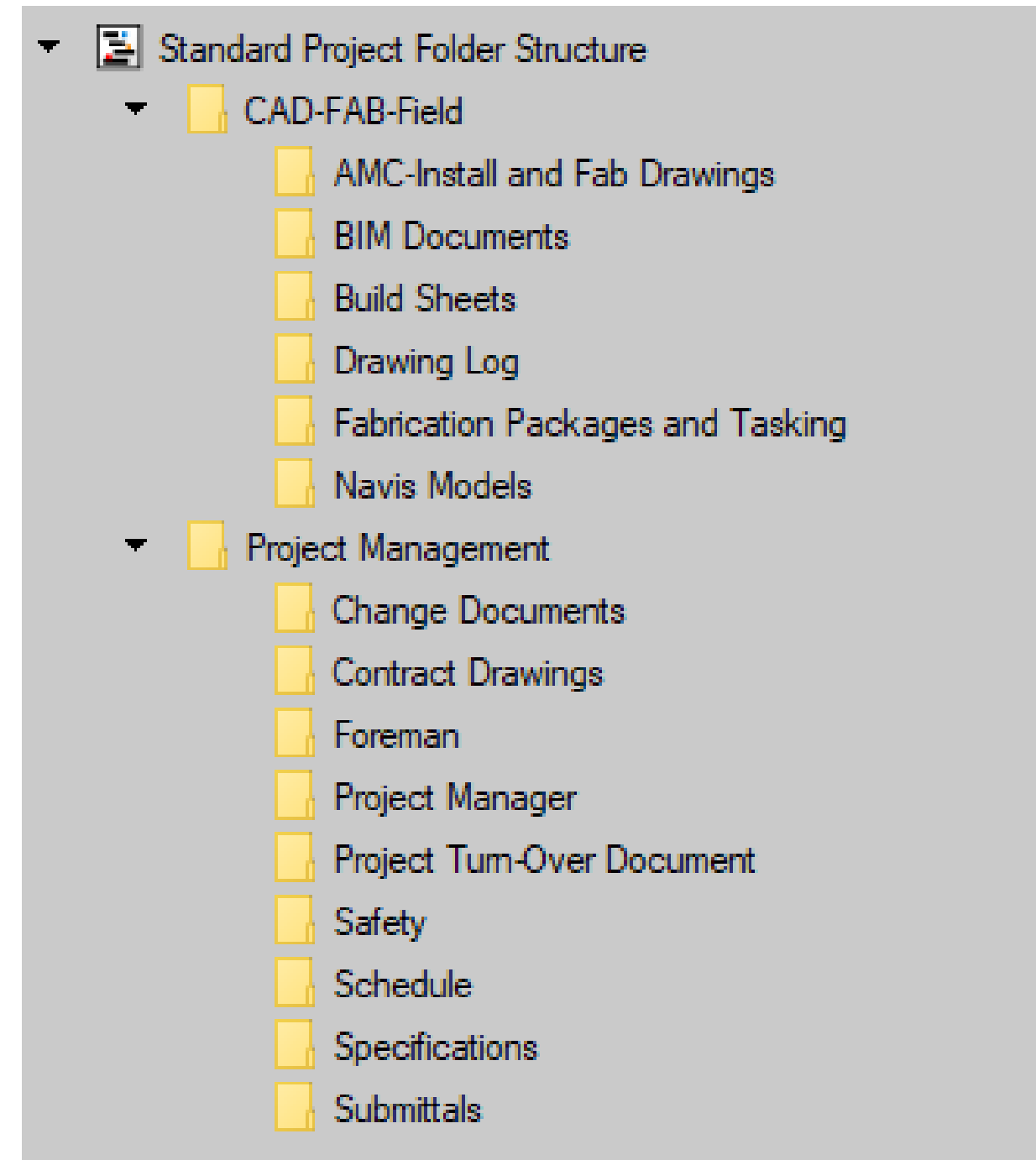
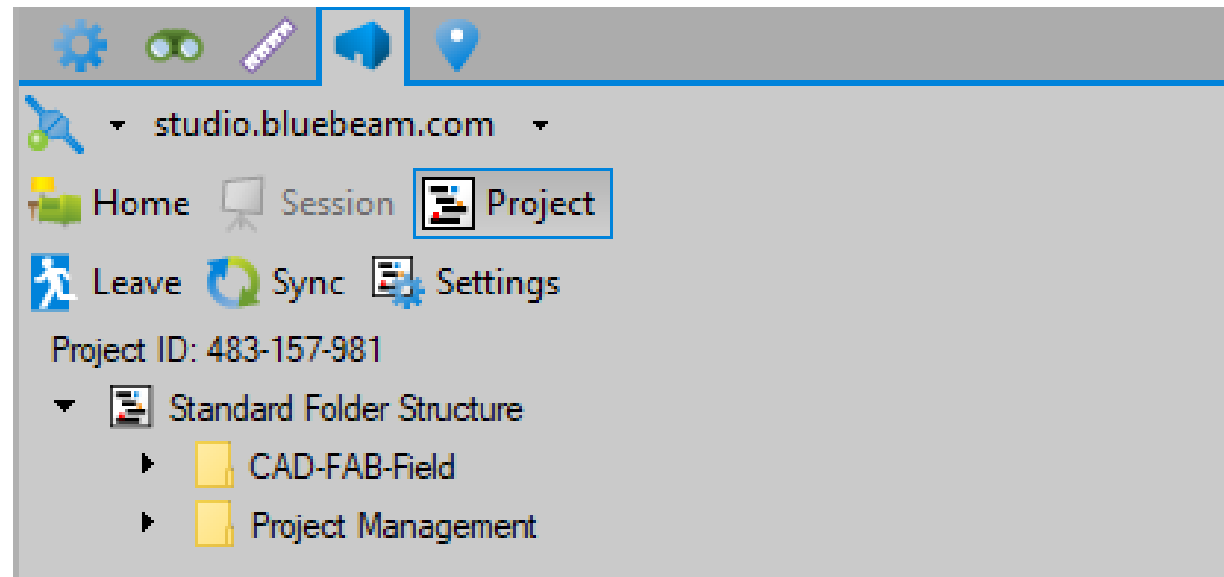


Fabrication Packages

Information and Distribution

- Drawings and Fabrication Packages are stored and shared on the Cloud
- Bluebeam Studio is currently being used for a majority of projects
- A common folder structure is used to insure the information is easily found and maintained
- Two main folders exist, one is managed by the Project Team and the other by the CFF team
- Content within the folders is always up to date
- Folders can be added or removed as needed for various project needs

Bluebeam Studio



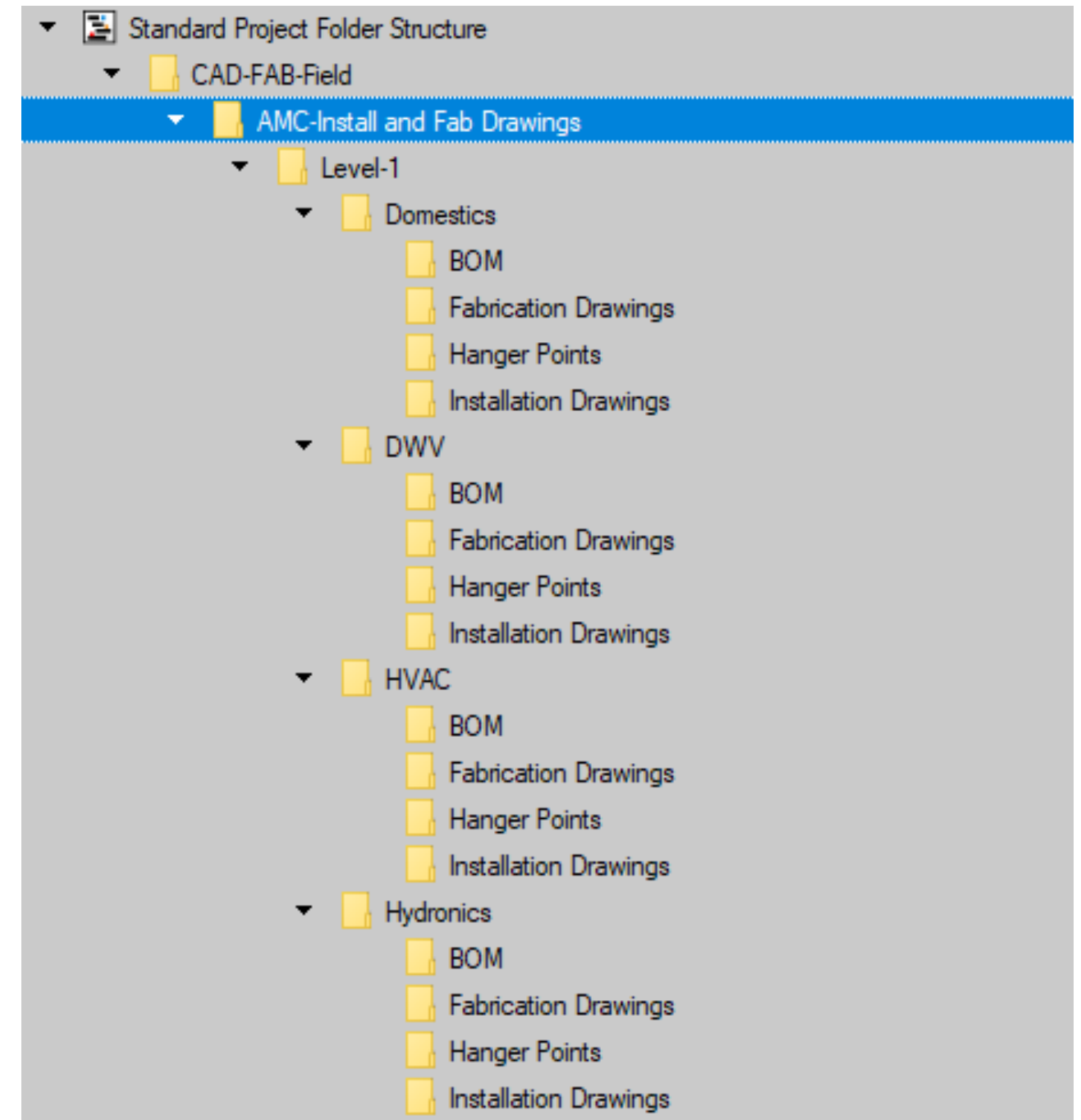
Distribute and Share Information

Each Main Folder contains Sub Folders used to organize different kinds of information

AMC-Install and Fab Drawings

Standard Folder Structure

All drawings and information are located in a By-Level By-Discipline folder Scheme

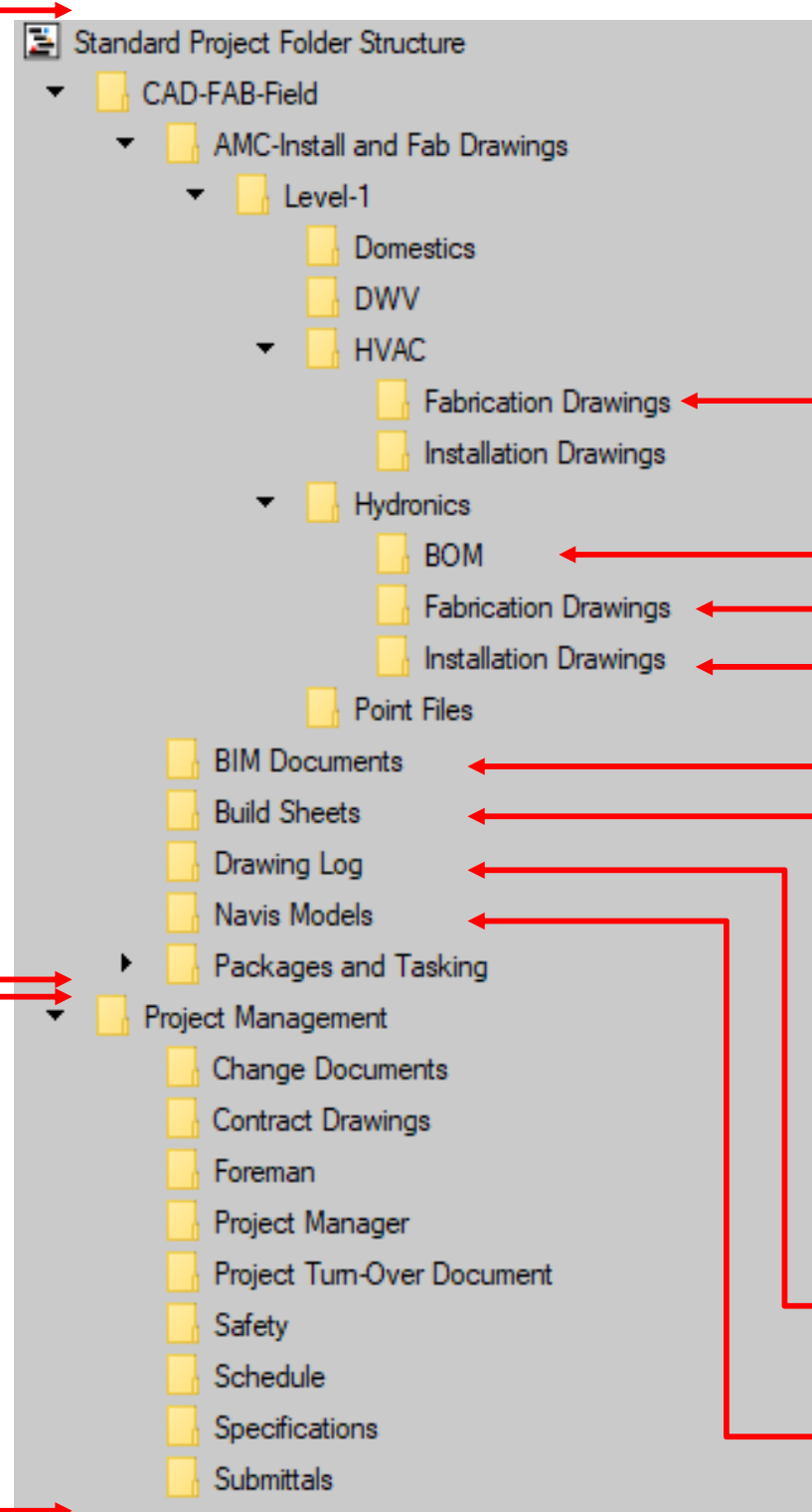


Standard Folder Structure

Note:
 This structure can be adjusted
 To account for specific projects
 needs. The intent is to keep
 consistent for the majority
 of our projects.

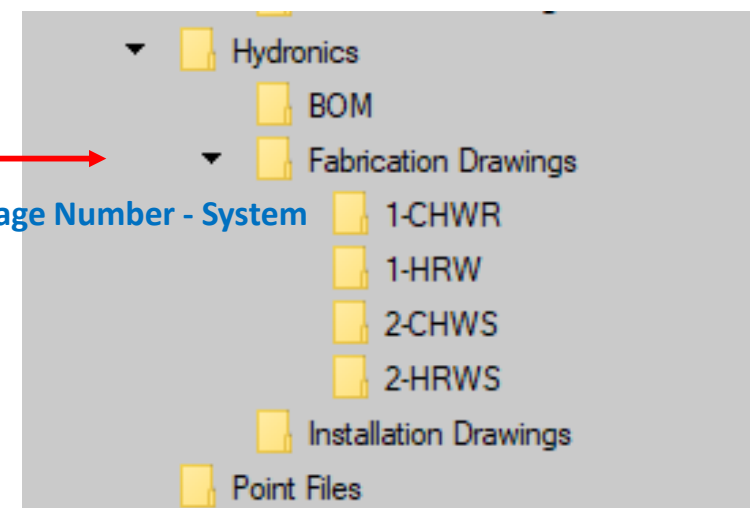
Content Managed
 by CFF Team

Folders and Content
 Managed by PM / PE



- Drawings/Spools/Packages for Fabrication. The Field and Shop work together and manage what items are ready for release and when they are needed.

- Overall Piping-Plumbing Bill Of Materials. Issued once Coordination is complete and Rev-0 drawings are distributed. Used early on for Material Procurement.



Package Number - System

- Installation Drawings.

- BIM Execution Plan, Schedule, Coordination Log.
- Build Sheets

- Drawing Log, updated and maintained by the Document Administrator.

- Current Navis Models issued for Field Review and use.