Tarrant County Jail & Tarrant County Corrections Center Renovation

Quality In Construction (QIC) Manual









<u>Tarrant County Jail & Tarrant County Corrections Center Project</u> <u>Quality in Construction Plan</u>

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Exhibit B

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

	Goal	Tactic	Accountability	Measure
QIC Team	Establish accountability and confirmation that completed work meets or exceeds design standards	CM – GILBANE – Kirby Jones and Matt Giuffre responsible for distribution, implementing, enforcing and documenting quality control procedures A/E – GIDEON TOAL – Amanda Schulte SUMMIT CONSULTANT (MEP ENGR) – TBD JASTER – QUINTANILLA (STRUCT. ENGR) - TBD OWNER – TARRANT COUNTY – Clarence Pressley PE – CM'S PROJECT ENGINEER – Kirby Jones PM – CM'S PROJECT MANAGER – Edward Rittmayer SUPER – CM'S FIELD SUPERINTENDENTS - Matt Giuffre, Scott Cope PGM – PROGRAM MANAGER – BROADDUS & ASSOC. – Mark Starr / KIA – Jeff Blackwell CA – COMISSIONING AGENT - TBD	Project Team	Project Team, first line of action and enforcement for conformance with requirements and overall review and audit of Quality Control and participation in QIC process
QIC Intent	Proactive action to prevent project errors	Quality In Construction (QIC), have a plan, know what is to be built, have the right materials, equipment and enough qualified workers to do it right the first time.	PM, Super, PE, Trade Contractors, A/E, Owner, PGM	Conduct Scope Reviews, with low bidders, prior to issue of contracts, know what is being purchased and scopes of work is complete
QIC Definitions	Early evaluation of construction methods. Work will not proceed until A/E/CM has approved the installation.	Benchmark – The first of each work type, in the planned sequence of construction, designated by the CM to be reviewed and documented against the contract document requirements and is the basis for judging a Trade Contractor's workmanship. A benchmark is not a means of presenting substitutions. Design questions are documented by the RFI process and submitted to the A/E and/or Owner for resolution	Trade Contractors, Superintendent, PE, A/E	Discuss at Weekly Superintendent Meetings. Schedule benchmark inspections in accordance with contract document requirements and QIC plan.

QIC

Definitions (Cont'd)

Gilbane Quality Plan
Tarrant County Jail & Tarrant County Correction Center Renovation Gilbane Job No. 4499 April 26, 2010

contract documents

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal	Tactic	Accountability	Measure
Ensure building components are built in compliance with the contract documents. CM will notify Architect at least one week prior to mock-up construction.	Mock-ups - Scale or full-size, generally out of sequence with building construction, used for demonstrating /evaluating compliance with design documents, further verification of submitted color and finish selections, and establishing standard of quality for completed work. Mock-ups are not to be used to change/revise scopes of work.	Trade Contractors, Superintendent, PE, A/E	Retain mock-ups during construction as standard for judging completed work Prior to start of mock-up construction the CM will review the plans, specifications, submittals, shop drawings and referenced standards to assure full understanding of the requirements by Contractors. The Inspection Team inspects the Mock-ups at completion for conformance to the project requirements. Document inspections and comments and distribute for corrective action.
Verify compliance with	Testing Lab Services – Independent agencies hired	A/E, Owner,	Refer to all

by the Owner to inspect, test and or witness work

requiring third party verification

PGM

specification sections,

specifically, 01450, 03300, 03371, 04810.

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal	Tactic	Accountability	Measure
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QIC **Definitions** (Cont'd

Verify equipment is installed and started per manufacturer's recommendations, and contract documents, and that a fully functioning product is installed	Commissioning – A comprehensive and systematic approach to verify and document that the building systems perform as designed	Superintendent, Trade Contractors, Owner, CA, A/E, PE, PM	Track progress at Weekly Team Meetings, CA to coordinate with CM, additional meetings as required to progress the work
Minimize deficient items on A/E punchlist	RCL – Rolling Completion List is a list of incomplete items, omissions, errors in the work, and or items that require action.	Super, PE	Review with Trades at Weekly Superintendent meeting
The correct materials are installed	First Delivery of Material / Equipment Inspections CM inspects and documents the first site delivery of each type of material and equipment. Non-conforming materials and/or equipment will not be allowed to be set into place and may be required to be removed from the site. Remedial measures will only be considered if they are in the best interest of the project and approved by the Project Team.	Super, PE	Verify delivery against the requirements of the contract documents and the approved shop drawings.
Confirm that concealed materials and/or equipment is as specified	In Wall & Above Ceiling Acceptance - CM documents and obtains signatures of all trades indicating that their concealed work is complete prior to call for inspection. Prior to wall closure or finished ceiling installation, the Inspection Team Inspects the work for conformance with the requirements.	Super, PE, A/E	Verify delivery against the requirements of the contract documents and the approved shop drawings.

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal	Tactic	Accountability	Measure
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Safety

No lost time accidents	Conduct Orientations Prior to Construction Start including Job Hazard Analysis by both Gilbane and Sub Contractors	PM, Super, PE	Keep Minutes of Orientations
	Make Safety Top Priority and Monitor Safety Plan vs. Construction Practices	Superintendent	Discuss at Weekly Trade Meetings
	Empower all to act safely including Owner's staff in addition to Gilbane personnel, conduct orientations with a personal touch, weekly jobsite safety talks to all on site, "Zero" tolerance	All	Safety violations & 0 accidents
Low Recordables	Use DBO2 to monitor Trade Contractor compliance with safety requirements noted in	Superintendent	Zero Recordables
	Keep paths of egress clear of all construction materials and perform a cleanup walkdown at end of each day	Superintendent	Track at Weekly Trade Meetings
	Erect temporary partitions at the start of construction and maintain separation of work from pedestrians as work progresses	Superintendent	Site Utilization Plan and minutes of meetings
	Each Trade Contractor is required to conduct weekly safety meetings	Trade Contractors, Superintendent	Documentation shall include sign-in sheet and subject matter.
Haz-Mat	Review Asbestos reports prior to performing any work in the existing Corrections Center building. No work to be performed until the absence of asbestos containing material can be confirmed	Superintendent, Owner, PGM	Discuss at Pre- Installation meeting and with each worker during orientation.

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal	Tactic	Accountability	Measure
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Project Startup

Conduct meeting within 15 days of receipt of Notice to Proceed	 Kick-off Meeting with Owner & Architect Establish Communications Procedures Set Payment Application Procedures Review Safety Plan Review Schedules, Establish Time Frames for Critical Decisions, Inspections & Approvals Review Submittal Process Review Quality Management / Inspections / Material Testing Review & Use Standard Pre-Construction Agenda Close Out Document Requirements Commissioning 	Project Team	Kick-off meeting minutes
Occurs Prior to Contractor's on site mobilization	Pre-Installation Meeting With Trade Contractors and Contractor's on-site personnel and major sub contractors to review quality management and construction processes. The following is a list of meetings to be held for this project.	Trade Contractor, CM	Review & Use Standard Pre- Construction Agenda to document each meeting
	Bid PackageDesign TeamGBCoMtg Date02A ExcavationSuper/PE/PMPrior to Start	See table at left	Review & Use Standard Pre-

Project Startup (Cont'd)

Gilbane Quality Plan
Tarrant County Jail & Tarrant County Correction Center Renovation Gilbane Job No. 4499 April 26, 2010

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal		Ta	ctic		Accountability	Measure
	02C Soil Retn		Super/PE/PM	Prior to Start		Construction Agend
	03A Concrete		Super/PE/PM	Prior to Start		to document each meeting
	03B Conc Fin.	GT	Super/PE/PM	Prior to Start		meeting
	04A Masonry	GT/Owner	Super/PE/PM	Prior to Start	See table at left	
	05A Steel		Super/PE/PM	Prior to Start		
	06A Millwk	GT	Super/PE/PM	Prior to Start		
	07A Waterpf	GT	Super/PE/PM	Prior to Start		
	07C Mtl Pnls	GT	Super/PE/PM	Prior to Start		
	07D Roofing	GT/Owner	Super/PE/PM	Prior to Start		
	08C OH Coil Dr		Super/PE/PM	Prior to Start		
	08D Fourfold Dr	GT	Super/PE/PM	Prior to Start		
	08E Windows	GT	Super/PE/PM	Prior to Start		
	09A Plaster		Super/PE/PM	Prior to Start		
	09B Drywall		Super/PE/PM	Prior to Start		
	09C Carpet		Super/PE/PM	Prior to Start		
	09D Res. Flr	GT/Owner	Super/PE/PM	Prior to Start		
	09E Painter	GT	Super/PE/PM	Prior to Start		
	10B Louvers		Super/PE/PM	Prior to Start		
	10C Signage	GT/Owner	Super/PE/PM	Prior to Start		
	11B Detention	GT/Owner	Super/PE/PM	Prior to Start		
	11C Food Svc	GT	Super/PE/PM	Prior to Start		
	13A Fire Supp		Super/PE/PM	Prior to Start		
	14A Elevator	GT	Super/PE/PM	Prior to Start		
	15A Mech	GT	Super/PE/PM	Prior to Start		

Super/PE/PM Prior to Start

16A Electrical

GT

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

	Goal	Tactic	Accountability	Measure
Field Quality	Do It Right the First Time	Make decisions inclusive of all involved parties, formal benchmarking done as contract requirements, timely resolution of field questions and issues that define completely the revised requirements, daily walk-thrus by all Gilbane staff with log maintained identifying benchmarks, mock-ups and field quality inspections. 1) See Benchmark listing below for construction tagged for Bench-marking 2) Mock-up to be done of a typical exterior wall with window, surrounding masonry installation with , flashing, masonry, caulking, damproofing, waterproofing, insulation, sheathing, windowsill, stud framing, sheathing. See Mock-up chart marked "Exhibit B" for minimally required mock-ups 3) All Contractors to participate accordingly. The Trade Contractor will identify an on site person responsible for the Trade Contractor's QC. Review their subcontracts, specifications, drawings, schedules, etc., to assure inclusion of quality verification requirements. Preview, witness and verify tests performed. Review all tests reports for completeness and submit originals. Verify that all work meets requirements prior to requesting inspection or testing. Maintain an up-to-date file of all drawings, sketches, changes, specifications, inspections and corrective actions.	All	Benchmark/Mock-up Inspection, Concealed Space Inspection, Concrete Placement Sign Off, First Delivery Inspection, Pre- Installation Meeting Record, Rolling Completion List, Walkdown Inspection. All contractors required to participate in Gilbane quality process. 03351, 04810 See Exhibit "A" QIC forms

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal	Tactic	Accountability	Measure
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Field Quality (cont'd)

Identify Required	Benchmark	Bid Package(s)		Benchmark Sign off
benchmarks	Typical Jail Cell	04A,09D,11B,15A, 16A	Owner, A/E, PM, PE, Super, PGM	
	S.S. window subframe Install	09B,08E	CM, A/E, Owner	
	Waterproofing	07A	A/E, Owner, CM	
	Roofing/Coping.	07D	Owner, CM, A/E, PGM	
	Metal Panel Install	07C	CM, A/E, Owner	
	Window frame Install	08E	CM, A/E, PGM	
	Structural Stud Wall	09B	CM, A/E, PGM	
	Louver Install	08E	CM, A/E	
	Plaster Install	09A	CM, A/E, Owner	
	Masonry Install	04A	CM, A/E, Owner	
	Granite Install	04A	CM, A/E, Owner	
	Cast Stone Install	04A	CM, A/E, Owner	
	Block Painting	09E	CM, A/E	
	Interior Stone Install	04A	CM, A/E	
	Ceramic Tile Install	09F	CM, A/E	
	Resinous Flr Install	09D	CM, A/E, Owner	
	Wood Ceiling Install	09B	CM, A/E, Owner	
	TBD			
	TBD			
Productivity	Organize work to support even to consistent manpower levels.	flow of work and	Project Team	Up-Front

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal	Tactic	Accountability	Measure
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Field Quality (cont'd)

Productivity, Zero Accidents	Keep the site and project clean, well organized and well lit.	Superintendent	Ongoing
	Understand and coordinate subcontractors' delivery issues, lay-down requirements and site use requirements.	Superintendent	Ongoing
Maintain Schedule	Conduct Card Trick Immediately After Awards	CM'sProject Manager	After Notice to Proceed
	Review Three Week Look Ahead at Weekly Trade Contractor meetings	Superintendent	Meeting Minutes
	Share the supervision of Saturday and OT work (if required) so that the burden does not fall entirely upon the Project Superintendents.	Project Manager	Ongoing
Relationships	Identify Principals of the Trade Contracting firm and O&G. Maintain communications in good times as well as not so good times.	Project Manager	Ongoing
	Ask them how we are doing from time to time.	Project Manager	Ongoing after buyout
Monitor RFIs	Timely Submission of All RFIs	Project Engineer	As Required
	Weekly Review of Outstanding RFIs	Project Team	Weekly
Timely Execution of Change Orders	Monitor Time for Request for Change Quotation's (RCQ's) submission from CM	Project Manager	As They Occur
	Timely Issuance of CCDs and COs to Owner	Project Manager	Weekly
	Prompt Issuance of Amendments	A/E, Owner	Weekly
Timely Ordering of Long- Lead Items	Identify long lead items at buyout	Project Engineer	Trade Buyout

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal	Tactic	Accountability	Measure
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Field Quality (cont'd.)

	Closely monitor deliveries through Material Status Reports. NO REPORT, NO MONEY!	Trade Contractor, PM, PE, Accountant	Ongoing
Timely and Complete Submittals	Review Submittal Schedule Prior to Scheduled Submittal date and review with Trades to allow for preparation time	Project Engineer	Review at Staff Meetings and Trade Contractor Meetings
	Review Submittals for Conformance prior to submitting to consultant to avoid rejection for non-conformance	Project Engineer	Submittal Log
	Daily review of submittal log, listing of submittals req'd given to subs, thorough review of submittals with Gilbane "take" prior to submittal A/E.	PE	Schedule adherence, review consultant comments
Complete project knowledge by staff	All staff walk job daily, scope/contract/spec review at weekly staff meetings	Staff	
Maintain updated contract documents	Keep Bid Proposals, Addendum's, Supplements, Scope Review MM's, etc. Dwgs and Specs together in one location, insert RFIs, Supplements, etc. daily	All	Staff review, review at Staff Meetings
Formal & Detailed Closure Inspections	Weekly review at job meetings and make sure all that should participate do participate	Super	Log and use of inspection sign-off forms
Minimal Punchlist	RCL kept up and maintained from start to finish	All	Rolling Completion List
Start it on "day one"	Make it part of submittal process	Project Engineer	Submittal Log, closeout files by BP and Owner
Timely process all cost issues throughout job	Weekly CE logs, use Payment Checklist throughout project	PE, Staff review	Monthly Report

Close-out

"QUALITY IS CONFORMANCE TO REQUIREMENTS"

Goal	Tactic	Accountability	Measure
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Close-out (cont'd)

Substantial Completion	Determine Architect/Building Official and Owner requirements at beginning of project. Collect information as project progresses to avoid last minute scramble when trying to obtain C of O.	Project Engineer, Superintendent	Create Log, Put Activity on Schedule
No claims and on time	Resolve all conflicts at earliest possible time, daily sign-off of field tickets	Staff	Zero Claims
As-Builts	Update daily	Super	Staff Review

TARRANT COUNTY JAIL QIC MANUAL

EXHIBIT A

Activation Notifications / Record Forms



Meeting Date:	Meeting Location	n:	
Description of Work T	o Be Discussed:		
Attendees (in most caractually be out in the f			foreman who will
NAME	POSITION	COMPANY	TELEPHONE #
REVIEW CONTRACT F			BE DISCUSSED
(Per Contract Agreemen			
List Drawing/Detail Se (Per Contract Agreemen			
(Per Contract Agreemer	11)		
List Other Work Relate affecting the work)	ed References (Skete	ches, RFI's, Change	s, Directives, etc.



Shop Drawings and Submittals (Especially review <u>marked-up</u> "Approved As Noted" Submittals for noted comments): As applicable to the specification sections noted above

	DESCRIPTION	STATUS
	ew of Previous Lessons Learned From Performing The tify Problems That Have Been Encountered Before In	
trade	edures and Scheduling (Including special coordinations, sequencing of work, review schedule covering work all procedures or requirements to be followed, etc.):	
Identi	ify Mock-ups covering work to be done (if specified t	o be provided) :
·		



Identify Specified Testing Requirements (Conducted by Trade Contractor and/or by Independent Testing Agency for Work being performed):

∟iSt 3	pecification Sections:(Per Contract Agreement)				
	(Fer Contract Agreement)				
					_
					_
	DESCRIPTION OF TEST	PE	RFORMED BY		FREQUENCY
-					
-					
-					
-					
			_		
Qualit	ty Inspections To Be Performe	ed On Wo	ork:		
	TYPE OF QUALITY INSPEC	TION	WHEN	PERI	FORMED
Ē					
Ī					
-					
-					
Other	Inspections To Be Performed	(By Trad	de Contractor. Co	ode li	nspections.
	Inspections To Be Performed s Warranty Inspections, etc.):	(By Trac	de Contractor, Co	ode li	nspections,
	s Warranty Inspections, etc.):				
			de Contractor, Co		nspections,
	s Warranty Inspections, etc.):				
	s Warranty Inspections, etc.):				
	s Warranty Inspections, etc.):				
	s Warranty Inspections, etc.):				
Mfgr's	s Warranty Inspections, etc.):				
Mfgr's	TYPE OF INSPECTION Tratory Work Required:	PEI			HEN REQUIRED
Mfgr's	TYPE OF INSPECTION	PEI			
Mfgr's	TYPE OF INSPECTION Tratory Work Required:	PEI			HEN REQUIRED
Mfgr's	TYPE OF INSPECTION Tratory Work Required:	PEI			HEN REQUIRED
Mfgr's	TYPE OF INSPECTION Tratory Work Required:	PEI			HEN REQUIRED



Availability of Materials Required:

DESCRIPTION	LOCATION	STATUS

Designated Material Laydown/Storage Areas:	

Workforce:

Familiarity and Proficiency of Trade Contractor(s) Work Force To Meet Required Workmanship Standards and Production Rates Required For Work To Be Performed:

Availability of Skilled Workforce Prepared To Start:

NUMBER OF WORKERS REQUIRED BY WORK DISCIPLINE	WHEN NEEDED	STATUS

Availability of Any Special Equipment Needed:

EQUIPMENT	WHEN NEEDED	STATUS



Other	Work Related Items:						

Work Related Accident Prevention Pre-Planning:

This contractor fully complies with its written safety plan and OSHA to prevent accidents and eliminate unsafe acts.

Every subcontractor is obligated to comply fully with this project's safety plan as part of their contractual responsibilities. They are also expected to comply with all OSHA regulations and Gilbane safety requirements. Some of these requirements are as follows:

- Attending mandatory safety orientation before doing any work on site
- Wearing of approved hard hats at all times while on the construction site
- Wearing of approved eye protection at all times while on the construction site
- Wearing approved shoes
- Wearing the proper work clothing at all times
- 6'-0" fall protection without exception
- Maintaining a clean work area
- Obtaining the necessary safety permits from Gilbane <u>before</u> beginning the effected work, e.g. hot work/scaffolding/confined space entry/equipment/stc.

Everyone must comply with the written Hazardous Communications Program by maintaining complete and up-to-date MSDS files on site that are readily accessible to anyone.



Everyone is required to participate in weekly Jobsite Safety Meetings, which are used for supervisor, craft and labor education.

Subcontractors must conduct their own Daily Safety Inspections and document them.

Every contractor working on site must wear the minimum specified Personal Protective Equipment (PPE), as well as the required PPE required to perform certain kinds of work tasks. What if any PPE will be required to perform the work being reviewed at today's meeting?

Review of procedures to be used in case of emergencies.

ADDITIONAL ACCIDENT PREVENTION CONSIDERATIONS PERTAINING TO THE SPECIFIC WORK TO BE PERFORMED AS PART OF THIS MEETING:						
	_					

JOB HAZARD ANALYSIS (See the attached form):

Directions:

- The supervisors involved should thoroughly pre-plan this phase of work. Break it down into quality as well as production considerations.
- Next identify all hazards associated with each task, no matter how unlikely "it" may seem to be at this point
- For each hazard that was identified, develop methods to eliminate them.
 List PPE that will be needed so they can be procured and worn at the time this work is performed.
- Finally, make sure the field personnel who will actually be doing this work go over the job hazard analysis plan prior to performing this work and that they implement the plan accordingly.



PRE-INSTALLATION MEETING RECORD JOB HAZARD ANALYSIS

PROJECT NAME:	PROJECT NUMBER:				
Description of Work:					
Specific job tasks	List unsafe condition(s), unsafe action(s) or potential hazards	How the activity can be done safely (Correcting items in column to left)			

JOB HAZARD ANALYSIS

PROJECT NAME: PROJECT NUMBER:								
DESCRIPTION OF WORK:								
Specific job tasks	List unsafe condition(s), unsafe action(s) or potential hazards	How the activity can be done safely (Correcting items in column to left)						



Rolling Completion List - Input Form

Date:	Ti	me: Proje	ect: Job No:	
Origin	nator's Name:		Company:	
BP#	Contractor	Location (Rm, Bldg, Area)	Item Description	

	QUALITY IN CONSTRUCTION			REVISION -0-		
	Closure In	spection F	orm			DATE:
Building Number: Building Name:						
Description of area	to be enclose	ed: 🗌 Below (Grade 🔲	Walls ☐ Ceiling ☐ C	Column 🗌 O	ther
Bid Package Num	ber:	Trade Contra	actor:			
Date/Time of Inspe	ection:					
Description of insp and/or system(s reviewed						
	-					
Location of Inspec By Bldg. Area/Leve						
(Attach marked-up						
Applicable Specific	cations:			Applicable Drawings	/Details:	
Inspection Result						
Accepted	Accepted As	Noted	or Re-Ins	pection Required	(Check	One)
Photos Attached ?	(Circle One)	Y N				
Comments:						
Inspection Conducted By:						
Attendees	Com	npany		Print Name		Signature
Trade Contractor						
Gilbane						
A/E						
Owner						
Other						

FIRST DELIVERY INSPECTION

QUALITY				
Date:	Time:	Project:	Job No):
Material / Eq	juipment Description	on:		
Location:			Meet at:	
Bid Package	es: Tra	de Cont.(s):		
Specification Sp	. ,			
	-		tags, etc., when available, to this form	n.
Invited Insp	ection Team Rep	resentatives		
Gilbane:		Trade	Cont.:	
Owner or A	rch/Eng. (optiona	ıl):		
Does the de	elivery conform to	the Contract	Documents? Yes 🗌 No 🗌	
If no, above	was material / equ	ipment remove	d from the site? Yes No	
Comments	s:			
Acceptance	Signatures:			
Gilbane			TC	
Owner or A	rch/Eng. (optiona	ıl):		

BENCHMARK INSPECTION

			Gilbane
QUALITY Date:	Time:	Project:	Job No:
Benchmark [
Location:			Meet at:
Bid Package	s:	Trade Cont.(s):	
Specification S	Section(s):		Drawing No(s):
Invited Inspe	ection Team	Representatives	
Gilbane:		Trade	Cont.:
Owner:		Arch	/Eng.:
	spection by (act Documents? Yes No
Acceptance	Signatures:		
Gilbane			TC
Owner			A/E

1 of 1

	QUALITY IN CO	REVISION -0-				
	Benchmark / Mock-Up Inspe	mark / Mock-Up Inspection Form				
			DATE:			
Building Number:						
Building Name:						
Mock-up or	r Benchmark (Check One)	Bid Package Number:				
Date/Time of Inspe	ction:	Trade Contractor:				
Mock-up/Benchmark						
Description:						
Mock-up/Benchma						
By Bldg. Area/Leve						
(Attach marked-up Applicable Specific	- · · · · · · · · · · · · · · · · · · ·	Applicable Drawings/D)etails:			
Applicable openie	ations.	Applicable Drawings/E	otalis.			
Inspection Results	s:					
Accepted	Accepted As Noted or Re-In	spection Required	(Check One)			
Photos Attached ?	(Circle One) Y N					
Comments:						
Inspection Conducted By:						
Attendees	Company	Print Name	Signature			
Trade Contractor						
Gilbane						
A/E						
Owner						
Other						

		QUALITY IN CONSTRUCTION Follow-up Benchmark Inspection Form				REVISION -0- DATE:		
Building Number: Building Name:								
Date Benchmark V	Vas First Perfo	ormed:		Bid Package N	umber:			
Date/Time of Follow	w-up Inspection	on:		Trade Contract	tor:			
Follow-up Benchm	ark							
Description:								
Follow-up Benchm	ark Location							
By Bldg. Area/Leve								
(Attach marked-up	drawings)							
Applicable Specific	ations:		Ap	pplicable Drawings/	/Details:			
Inspection Result	:s:		l					
Accepted	Accepted As	Noted or	Re-Inspec	tion Required	(Check	One)		
Photos Attached ?	(Circle One)	Y N						
Comments:								
Inspection Conducted By:								
Attendees	Com	npany	Pri	nt Name		Signature		
Trade Contractor								
Gilbane								
A/E								
Owner								
Other								

WALKDOWN INSPECTION

OLIA! ITY				
QUALITY	ACTIVATION	☐ ST.	ARTUP	ACCEPTANCE
Date:	Time:	Project:		Job No:
Equipme	ent/ System Desci	ription:		
Location	:		Meet at:	
Bid Pack	kages:	Trade Cont.(s):		
Specifica	tion Section(s):		Drawing No(s):	
Invited I	nspection Team	Representatives		
Gilbane	:	Trade	Cont.:	
Owner:		Arch	/Eng.:	
Approv If not ap Comme	proved, is re-insp	Activation ection by Gilbane ac	Startup ceptable for appro	☐ Acceptance val? Yes ☐ No ☐
Accepta	nce Signatures:			
Gilbane			TC	
Owner			A/E	

	QUALITY IN CONSTRUCTION				REVISION -0-				
		Activation	DATE:						
Building Number:	Building Number:								
Building Name:									
Description of Equ	ipment/Systen	n(s):							
Bid Package Numb	ber(s):	Trade Contra	ictor(s):						
Date/Time of Inspe	ection:			_					
Description of v completed for start	work to be t-up								
Location of Inspec	Location of Inspection By								
Bldg. Area/Level/R	(s)/CL								
(Attach marked-up	drawings)								
Applicable Specific	Applicable Specifications: Applicable Drawings/Details:								
Inspection Result	ts:								
Accepted A	☐ Accepted ☐ Accepted As Noted or ☐ Re-Inspection Required and scheduled date: (Check One)								
Photos Attached ? Y N									
Comments:									
Activation of Equipment/System To Follow Successful Inspection									
Inspection Conducted By:									
Attendees	Com	npany		Print Name	;	Signature			
Trade Contractor									
Gilbane									
A/E									
Owner									
Other									

		QUALITY IN CONSTRUCTION REVISION -0- Start-Up Walk-Down Inspection DATE:						
Building Number:								
Building Name:								
Description of Equi	ipment/Syster	n(s):	<u> </u>					
Proposed Start-Up	Date:		Bid Packa	ge Number:				
Date/Time of Inspe	ection:		Trade Contr	ractor(s):				
Description of w completed before t	vork to be curnover							
Location of Inspect	tion By							
Bldg. Area/Level/R								
(Attach marked-up				1				
Applicable Specific	ations:			Applicable Drawings/	Details:			
Inspection Result	s:							
Accepted	Accepted Accepted As Noted or Re-Inspection Required and reschedule date: (Check One)							
Photos Attached ?	(Circle One)	Y N						
Comments:								
Activation of Equipment/System To Follow Successful Inspection								
Inspection Conducted By:								
Attendees	Com	npany		Print Name		Signature		
Trade Contractor								
Gilbane								
A/E								
Owner	Owner							
Other								

PROJECT Name Notice of Equipment/System Acceptance

Turnover No.	Date Prepared				
Description of Work Accepted					
Punchlist of Remaining Items Attached		YES		NO	
Completed Punchlist Attached		YES		NO	
This "Notice of Acceptance" is issued in Contract dated be					of
The portion of the Work described above and Specifications. A final punch list is					of the Drawings
The issuance of this 'Notice of Accepta upon any rights or remedies available to					
GILBANE					
Project Manager				Date	
Owner					
Project Manager				Date	

TARRANT COUNTY JAIL QIC MANUAL

EXHIBIT B

Mock-up Log

TARRANT COUNTY JAIL MOCK-UP LOG

EXHIBIT B

Type of Work	Spec. Section Ref.	Bid Pkg(s)	Inspection Team	Status
Concrete Polishing System: Apply each type finish to demonstrate typical joints, depth of grind, color variation and std of workmanship	03351; 1.4D	03B	PX, Project Engineer, Superintendent, GT	
Cast Stone: For verification of submitted color and for establishing standard of quality in completed work	04720; 1.5D		PX, Project Engineer, Superintendent, GT	
Brick Veneer: Demonstrate aesthetic effects and to establish standard of quality in completed work	04811; 1.6F	04A	Project Engineer, Superintendent, GT	
Stone Masonry: For verification of submitted color and for establishing standard of quality in completed work. Show all typical building components and method of installation	04860; 1.5E	04A, 07A, 08E, 09B	Project Engineer, Superintendent PX, GT	
Joint Sealant: Field Adhesion testing	04860; 1.5D and spec section 07920, 1.4D	07A	Project Engineer, Superintendent, GT	
Fluid Applied Air Barriers: Provide air barrier work for exterior wall assembly, incorporating back-up wall construction and flashing to demonstrate surface preparation, crack and joint treatment	07272; 1.07D	04,07A, 08E, 09B	Project Engineer, Superintendent, GT	

Precast Roof Pavers: 4 foot x 4 foot mock up, incorporated into the work once approved with specified waterproofing	07555; 1.6B	07D	PX, Project Engineer, Superintendent, GT	
Sprayed Fire Resistive Materials: 100 sq.ft. to verify selections and to demonstrate aesthetic effects and qualities of materials and execution	07811; 1.3D	07B	Superintendent, GT	
Portland Cement Plaster: 100 sq. ft. in sufface area to demonstrate quality standards	09220; 1.3B	09A	Superintendent, GT	
Gypsum Board Assemblies: (Benchmark/Mock up) 100 sq.ft. in surface area to demonstrate level 5 finish	09250.1-4€	09B	Superintendent, GT	<u> </u>
Porcelain Tile: Install each form of construction and demonstrate aesthetic effects and quality of work. Locate mock up per architect direction	09310; 1.4E	09F	Superintendent, GT	
Resinous Flooring: Apply full thickness mockup with integral base to demonstrate aesthetic effects and set standards for quality	09671; 1.4C	09D	PX, Superintendent, Project Engineer, TC, GT	
Detention Hollow Metal: DHM To be incorporated into Jail cell mockup	11191, 11192, 11193	11B	PX, Superintendent, Project Engineer, GT, TC	