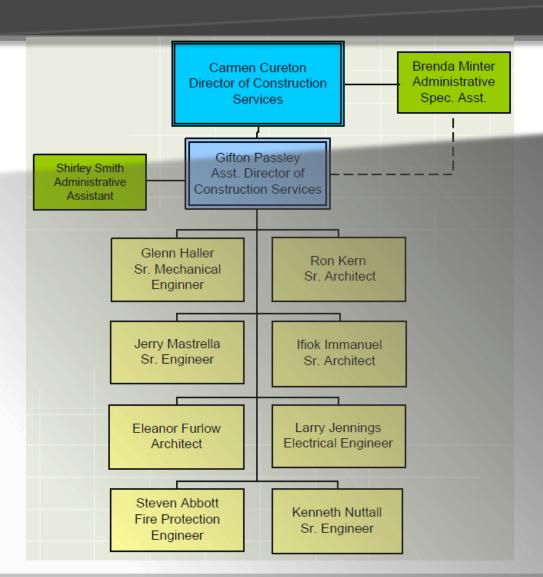
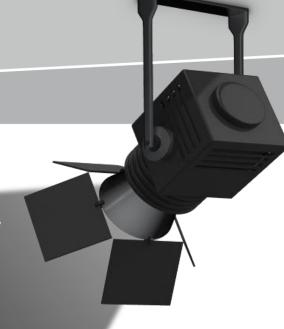


DRG- Who We Are



Design Review Group

A Department in GSFIC Construction Services Division





Constructability - Manage Proper Application of Bond Proceeds



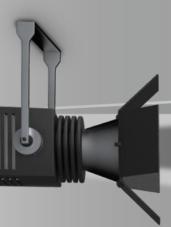
Life Safety and Fire Protection - 5 Deputized State Inspectors

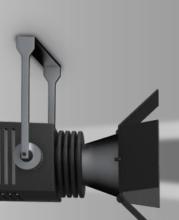


BIM Reviews and Animations



Special Inspections Program and Selection Process



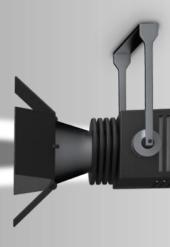


Fire Alarm and Fire Sprinkler Field Inspections

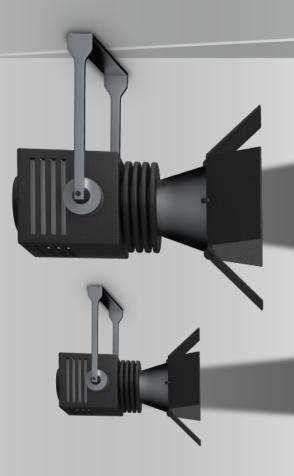
Building Assessments and Cost Estimating

Scheduled Monthly Project Kick-off Meetings

Twice Weekly Project Intake Meetings

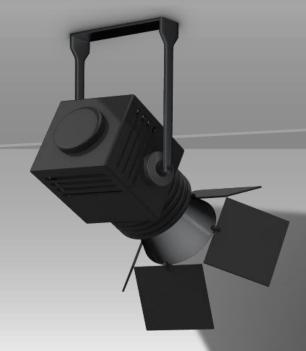






Subject Matter Expert to GSFIC Project Managers during design and construction

Subject Matter Expert to Using Agencies, contractors, other entities in general

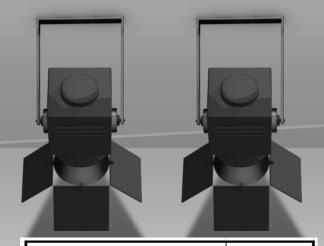


Additional Services

Assistance for the SWCC for their Dam program, Site visits including LDP assistance

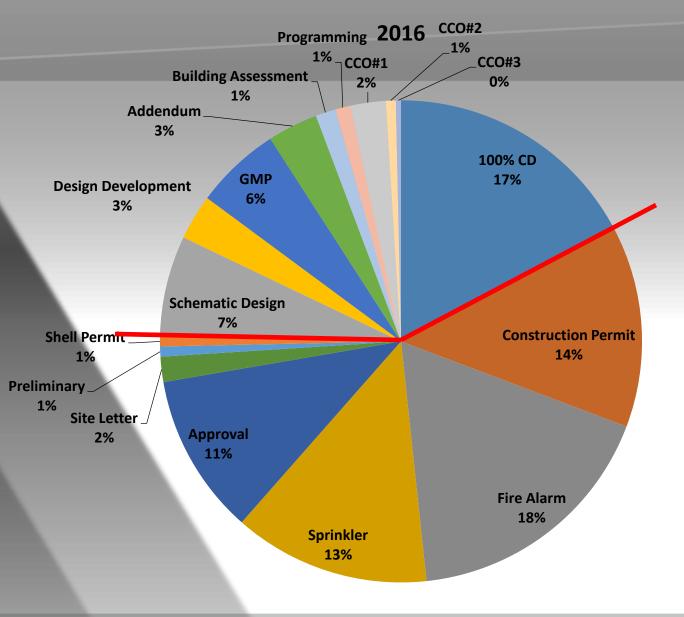
DP and Commissioning Agent selection assistance

GSWCC Level 1A & 1B Certified Inspector Training



Review Type	2016			
100% CD	51			
CCO#3	1			
CCO#2	2			
CCO#1	7			
Programming	3			
Building Assessment	4			
Addendum	10			
GMP	17			
Design Development	9			
Schematic Design	20			
Construction Permit	40			
Fire Alarm	52			
Sprinkler	39			
Approval	32			
Site Letter	5			
Preliminary	2			
Shell Permit	2			
Total	296			

DRG Reviews January – June 2016



Predecess	% Done	No:	Project #	Project Name	Rev. Cat	Proj Mgr./ Client	Review Type	Back Check #	Architect / Engineer	Discipline	In Date	Target Date	Review Duration	Completion Date	Duration	Approval Status	Comments
İ		ín.	<u>a</u>	<u>a</u>	<u>-</u>	<u> </u>	<u>a</u>	<u> </u>		<u>a</u>	<u>a</u>	<u> </u>	<u> </u>	1	<u>a</u>		
		1	TCSG-244	Automated Manufacturing Technology Building, GA Northwestern Tech. Catoosa Campus		Brownsmi	Approval		Ronald Kern		01/05/15	01/27/15	17d	01/16/15	10.66667	Approved	
		2	J-208	Health Center, Georgia Southern University			Fire Alarm		Justin Poblete		01/07/15	01/29/15	17d	01/27/15	19.66667	Approved	
		± 3	DDS-005	Drivers Services Facility, Paulding County	3	Starks	100% CD		Eleanor Furlow		01/06/15	01/12/15	5d	01/27/15	20.66667		
			FM-086-14	Library, Clayton State			Fire Alarm		Justin Poblete		01/08/15	01/16/15	7d	01/16/15	7.66667	Not: Approved	
		+ 4	GWCC-035	NSP Phase I Parking Deck	2	Gist	CCO#1	BC#2	Ifiok Immanuel		01/07/15	01/20/15	10d	01/20/15	12.66667		
			FM-061-14	Gulllebeau Hall, Gordon College			Sprinkler		Justin Poblete		01/08/15	01/28/15	15d	01/12/15	3.66667	Approved	
			FM-085-14	Arts & Sciences, Clayton State			Fire Alarm		Justin Poblete		01/08/15	01/28/15	15d	01/14/15	5.66667	Approved	
			FM-049-14	Lanier Center for Native Plants, University of Georgia			Construction Permit		Ronald Kern		01/08/15	01/28/15	15d	01/22/15	13.66667	Approved	
			FM-001-15A-D	Retail Block, Jekyll Island			Approval		Ronald Kern		01/09/15	01/29/15	15d	01/27/15	17.66667	Approved	
			J-216	Classroom & Lab Building, Bainbridge College			Fire Alarm		Larry Jennings		01/12/15	01/30/15	15d	01/29/15	16.66667	Not Approved	
		•	DOT-081	Facility Condition Assessments State Rest Areas		Durr	Schematic Design		Ronald Kem		01/12/15	01/16/15	5d	01/22/15	9.66667		
			J-220	Health Sciences Tech Ed, Dalton State			Fire Alarm		Justin Poblete		01/15/15	02/04/15	15d	02/02/15	17.66667	Not Approved	
			BR-66-1104	Shooting Sports Education Center, Georgia Southern			Fire Alarm		Larry Jennings		01/15/15	02/04/15	15d	02/02/15	17.66667	Approved	
			FM-002-15	Tift Building, Coastal Plains Experiment Station UGA			Approval		Ifiok Immanuel		01/15/15	02/04/15	15d	02/02/15	17.66667		
			J-250	Davis Hall, South Georgia College			Approval		Ronald Kern		01/15/15	02/04/15	15d	02/02/15	17.66667		
			TCSG-269	Natural Resources Building, Ogeechee Technical College, Statesboro			Sprinkler		Steven Abbott		01/20/15	02/09/15	15d	01/27/15	6.66667	Not Approved	
			J_226	Fine Arts Center, Georgia Southwestern University			Approval		Ronald Kern		01/20/15	02/09/15	15d	02/04/15	14.66667		
			FM-113-14	Howard Hall_Columbus State University			Fire Alarm		Justin Poblete		01/21/15	02/10/15	15d	01/28/15	6.66667	Approved	
			FM-111-14	Georgia Health Policy Center-8th floor. Georgia State University			Approval		Ronald Kern		01/21/15	02/10/15	15d	01/29/15	7.66667	Approved	Resubmittal
		•	DHS-001	Roof Repairs, MLK Human Services Center	3	Starks	100% CD		Ronald Kern		01/15/15	01/21/15	5d	01/28/15	12.66667		
		(+)	J-234	Science Learning Center, University of Georgia	1	Brownsmi	CCO#2	BC#4	Ronald Kem		01/23/15	01/29/15	5d	02/03/15	10.66667		
		•	TCSG-308	Transportation and Energy Building Renovation, South Georgia Tech.	2	Berry	Schematic Design		Larry Jennings		01/14/15	01/27/15	10d	01/28/15	13.66667		
		+	SBE-027B	Renovation of Cottage Bathrooms for ADA Accessibility, Georgia Academy for the Blind, Macon	3	White	Addendum	BC#1	Eleanor Furlow		01/21/15	01/27/15	5d	01/23/15	1.66667		
			SWCC-008C	Soque #29 Dam Rehabilitation	3	Rivera	100% CD	BC#2	Gerard Mastrella		01/20/15	01/26/15	5d	01/26/15	5.66667		
		(4)	SWCC-008D	Soque #34 Dam Rehabilitation	3	Rivera	100% CD	BC#2	Gerard Mastrella		01/20/15	01/26/15	5d	01/26/15	5.66667		
		+	SWCC-008E	Soque #36 Dam Rehabilitation	3	Rivera	100% CD	BC#2	Gerard Mastrella		01/20/15	01/26/15	5d	01/26/15	5.66667		
			FM-003-15	"THINC" College & Career Academy, West GA Technical College LaGrange			Construction Permit		Ronald Kern		01/22/15	02/11/15	15d	02/17/15	25.66667	Approved	
			J-221	Building D Renovation, Southern Polytechnic State University			Approval		Ifiok Immanuel		01/23/15	02/12/15	15d			Approved	
			TCSG-268	North Fulton Campus, Gwinnett Technical College			Sprinkler		Steven Abbott		01/23/15	02/12/15	15d	01/29/15	5.66667	Approved	
			J-208	Health Center, Georgia Southern University			Sprinkler		Justin Poblete		01/23/15	02/12/15	15d	01/29/15	5.66667	Not Approved	
			FM-064-14	East Wave Fusion, Georgia State			Sprinkler		Steven Ahhntt		01/26/15	02/13/15	15d	02/03/15	7.66667	Annoved	



DRG Civil Engineering

Site investigations **Special Inspection Coordination** SD and DD Phase Checklists Process Guide, Commissioning Guide, **BIM Guide** on GSFIC website



DRG Process Guide

along with the



State Construction Manual

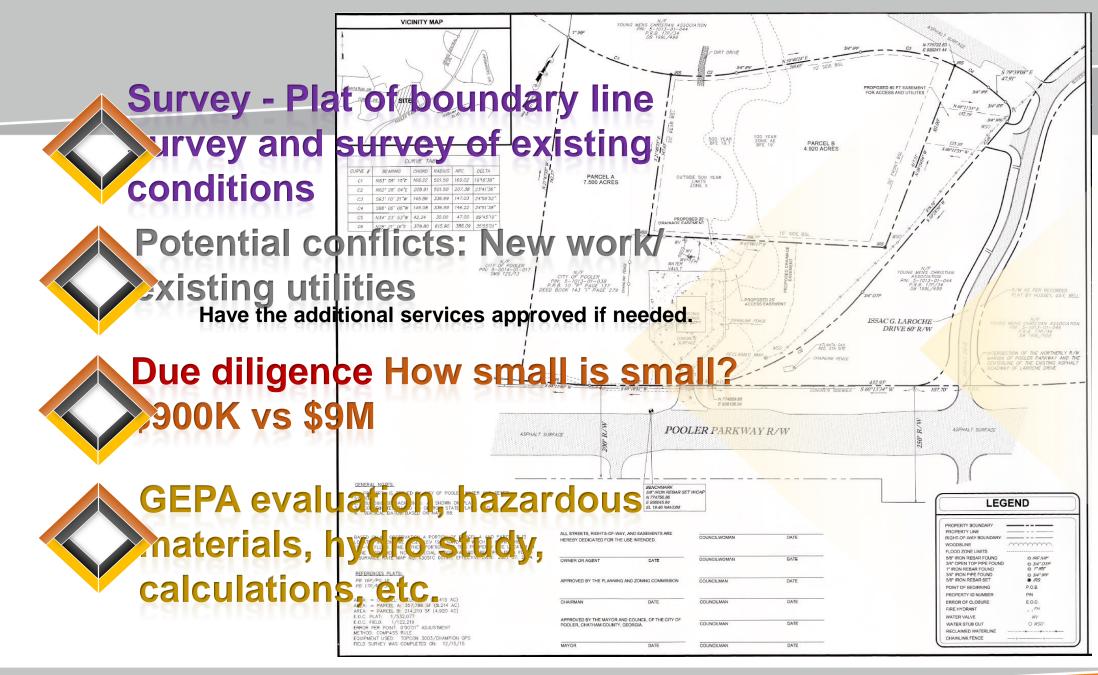
and ongoing communication with





On Time, on Budget, High Quality

This is the goal of the Construction Division - GSFIC



DRG Civil Engineering

How different is State of Georgia work from the private sector work?

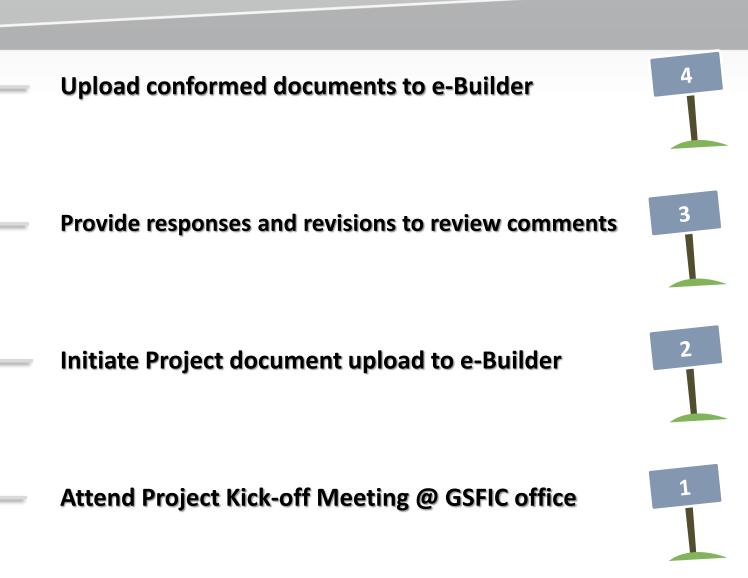
Certification of Ownership: required for any project using GO bonds or exceeding \$1M in design & construction costs

Special Inspections, materials testing and NPDES inspections

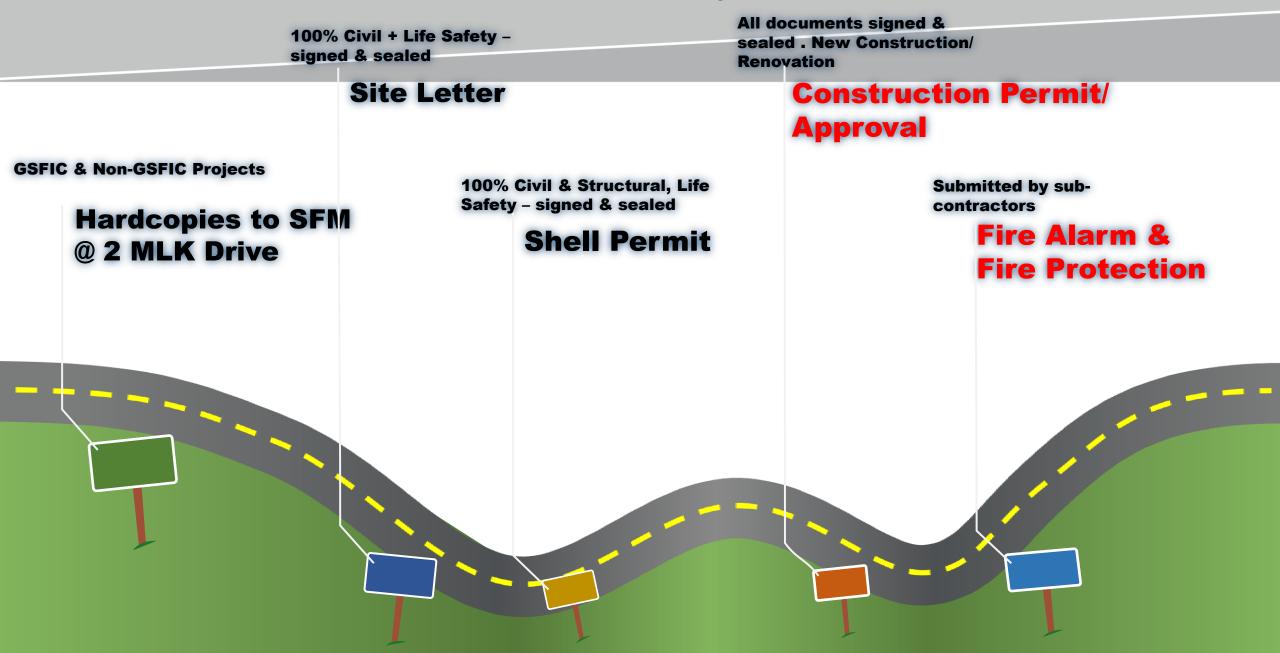
The DRG Road

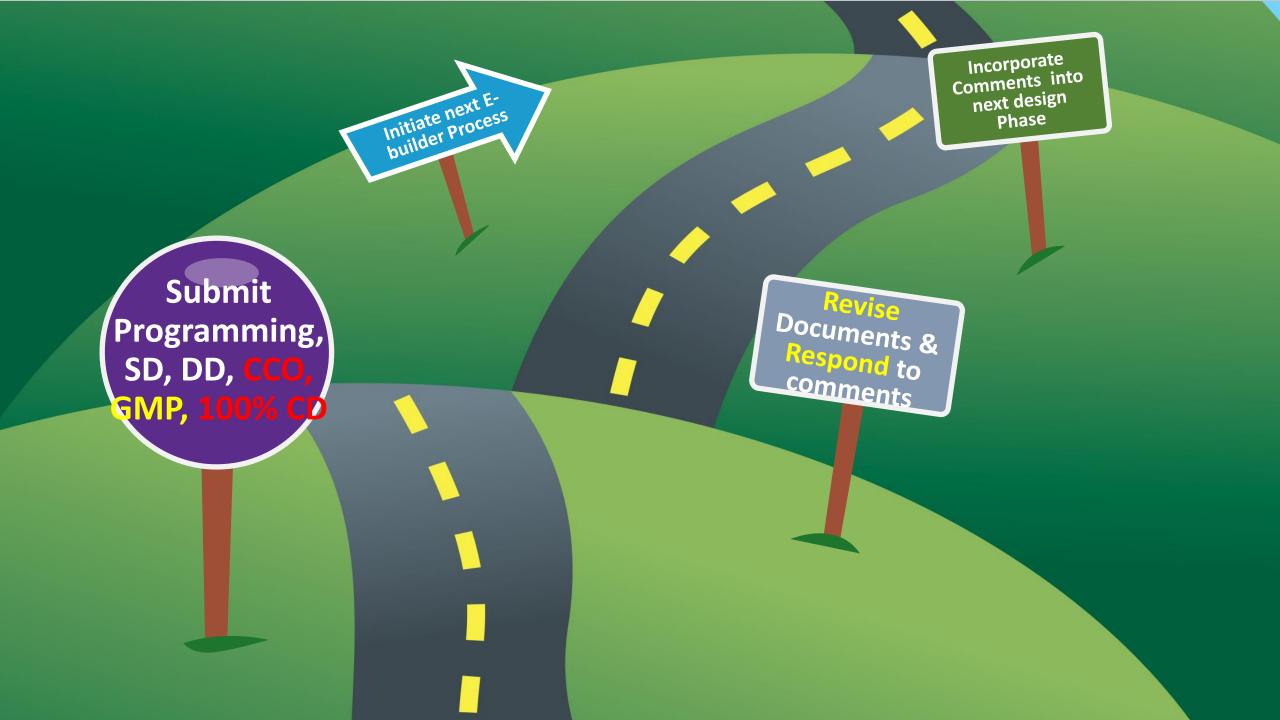
Fire Marshal Constructability

DRG Journey Check Points



Fire Marshal Review Journey

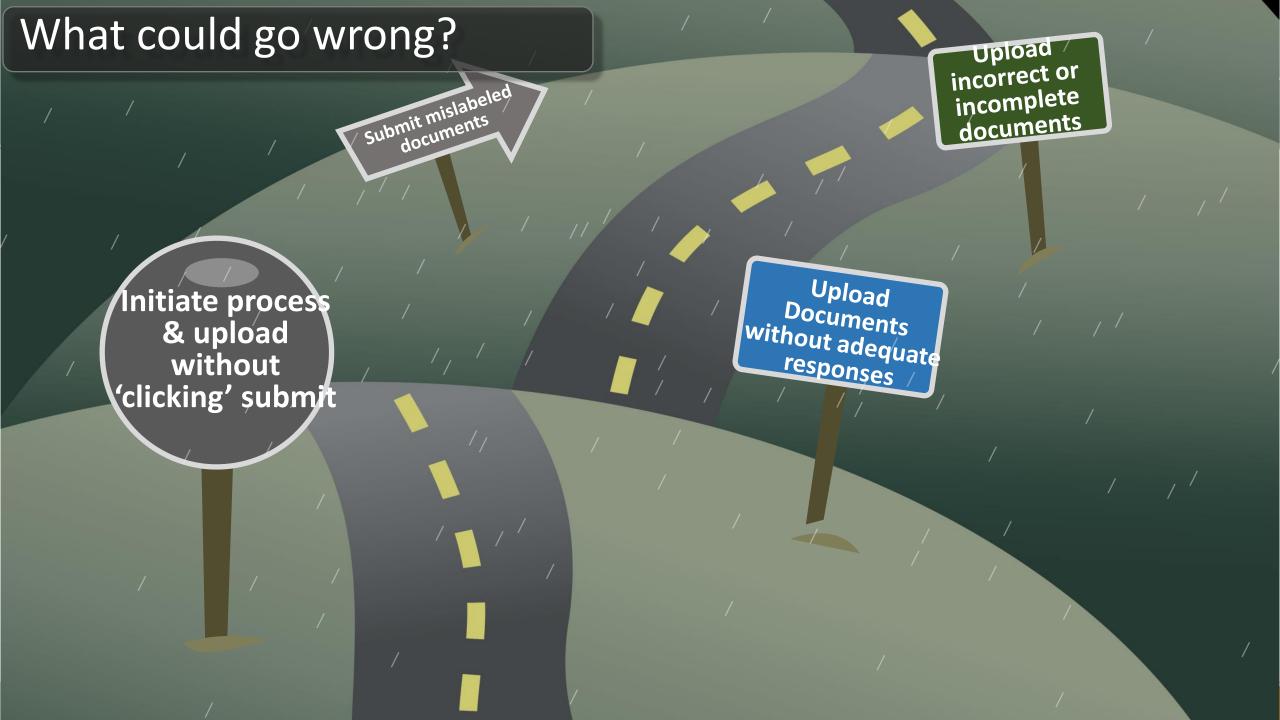




Lots of Sunshine

Submit Back Check Docs for CCO, GMP, 100% CD 7 days to respond for back check

Revise
Documents &
Respond to
comments







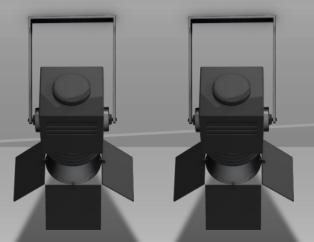
Know Your DRG Process Guide

Respond thoroughly to all reviewer comments

The Successful Finish

Include GSFIC Front End Docs

Start your
Design with
Construction
codes in mind



To familiarize DRG with project specific information

Familiarize Design Professional with DRG processes & expectations

Share lessons learned from similar projects

DRG Project Kick-off Meeting

Purpose: To familiarize GSFIC Design Review Group with project specific information to aid in review.

To familiarize Design Professional with GSFIC Design Review Group processes, procedures, and expectations

To share lessons learned from similar projects

Pre-design

Programming/Scope Discussion

Site Investigation

Plan Review Process

Constructability Reviews

State Fire Marshal Approvals

Other Approvals

Ron Kern [A/FM] 4. 463.5684 Ifiok Immanuel [A/FM] 3.5686 Eleanor Furlow [A/FM]3.5796

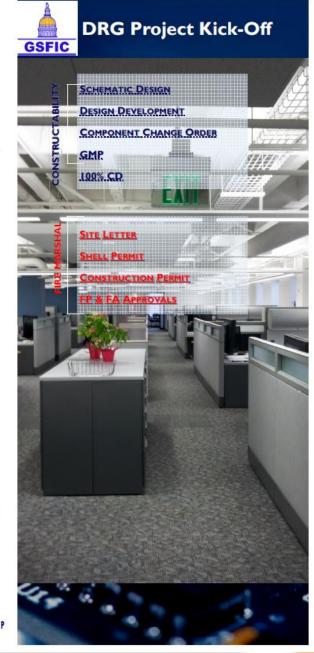
Jerry Mastrella [C] 3.5679

Ken Nuttall [S] 3.5688

Glenn Haller [M/P] 3.5789

Steve Abbott [FP/FM] 4.656.2661 Justin Poblete [FP/FM] 4.656.2662

Larry Jennings [E] 4.232.1399



DESIGN REVIEW GROU

INTENT Introduce DRG & DP Team **DRG Lead**



Who to Bring **Project** Architect, **Project A/E's** CM



We answer your questions

WHAT WE DO **Discuss Review Process** + Set **Expectations**

Happy Meeting

You've read the DRG Process Guide You share your Project Information: Scope, Budget & Schedule

We discuss:
Site / Predesign,
QA/QC Hurdles,
DRG Publications,
Fire Marshal Submittals,
Review Levels, e-Builder,
Checklists

Unhappy Meeting
You have not read the Process
Guide



Design Review Categories



Category 1: 7 day turnaround



Category 2: 14 day turnaround



Category 3: 21 day turnaround

Review Category 1



SINGLE STORY BUILDINGS

Duration = 7 Days

- Single Story BusinessOccupancies
- Single Story Renovations and Additions
- MEP Upgrades
- Demolitions
- Facades and Building Envelope

Review Category 2



2 STORY BUILDINGS

Duration = 14 days

- 2 Story BusinessOccupancies
- Storage Occupancies
- Non-Complex Labs
- Renovations
- Residential, 2 Stories or Less

Review Category 3



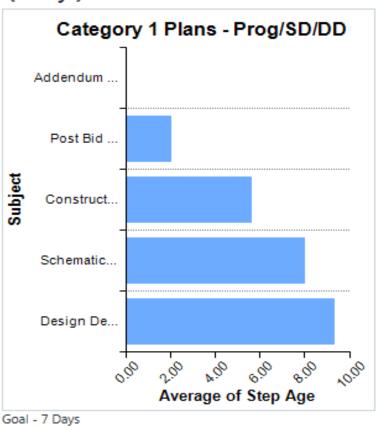
VERY COMPLEX BUILDINGS

Duration = 21 days

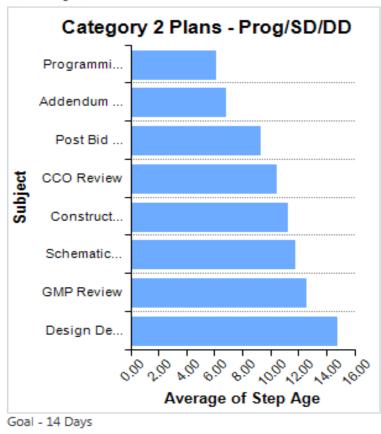
- Assemblies: Libraries, Student Centers
- Classroom Buildings 3 Stories & Above
- Complex Labs
- Health Care
- Residential: Dormitories & Apartments
 3 Stories & Above

DRG REVIEW DURATION JULY 1, 2015 – JUNE 30, 2016

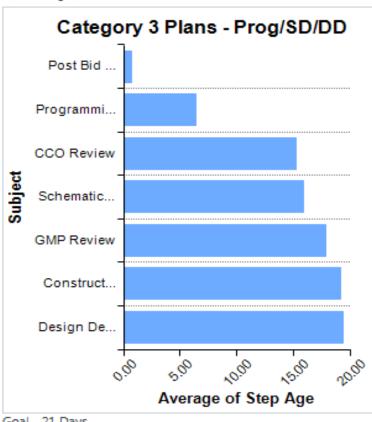




Design Review Step Avg Processing Ages (in days)



Design Review Step Avg Processing Ages (in days)



Goal - 21 Days

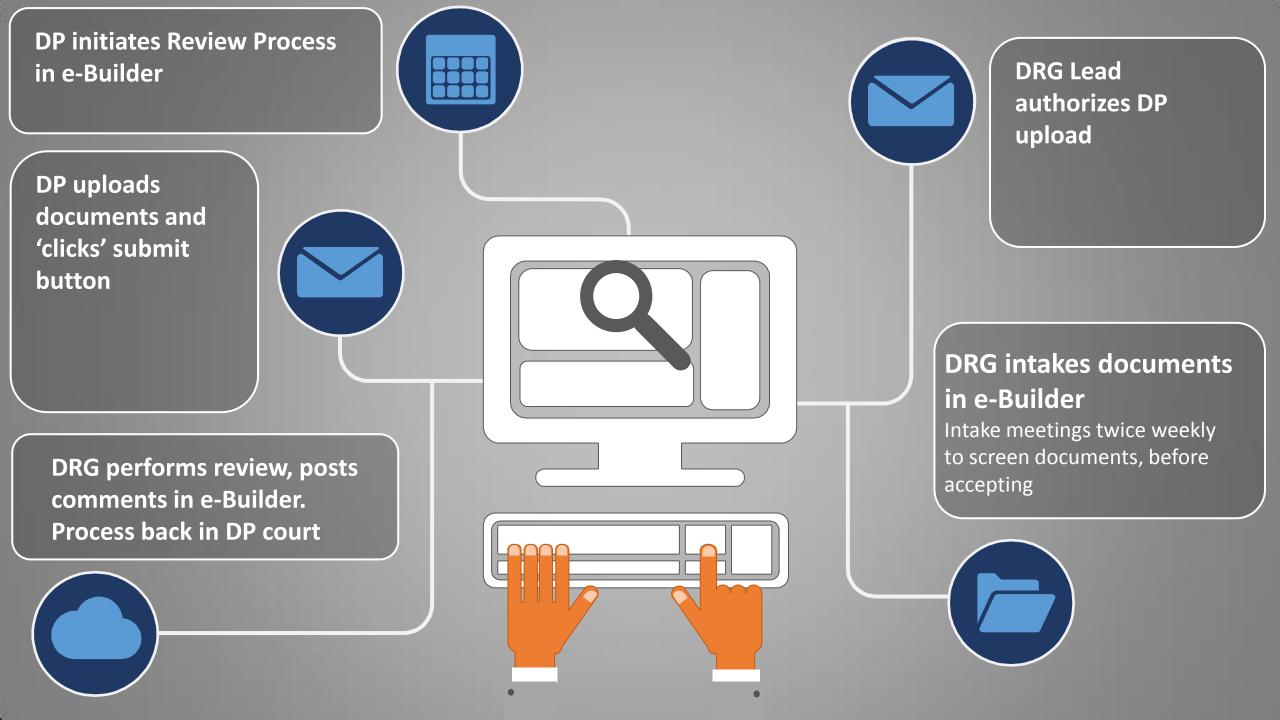
Category 1 Total Processes

Category 2 Total Processes

11.00

Category 3 Total Processes

38.00



DRG Review Comments

DRG REVIEWS UPLOADED DOCUMENTS AND GENERATES COMMENTS WHICH SHOULD BE ADDRESSED BY DP WITH REVISIONS TO DOCUMENTS SUBMITTED AT NEXT PHASE.

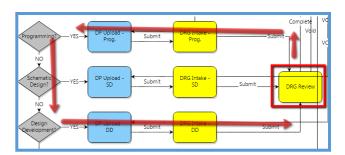
No back checks are required for SD and DD submittals.

100% CDs, CCOs & GMPs will be back checked till all comments closed

comments closed

100% CDs, CCOs & GMPs will be back checked till all

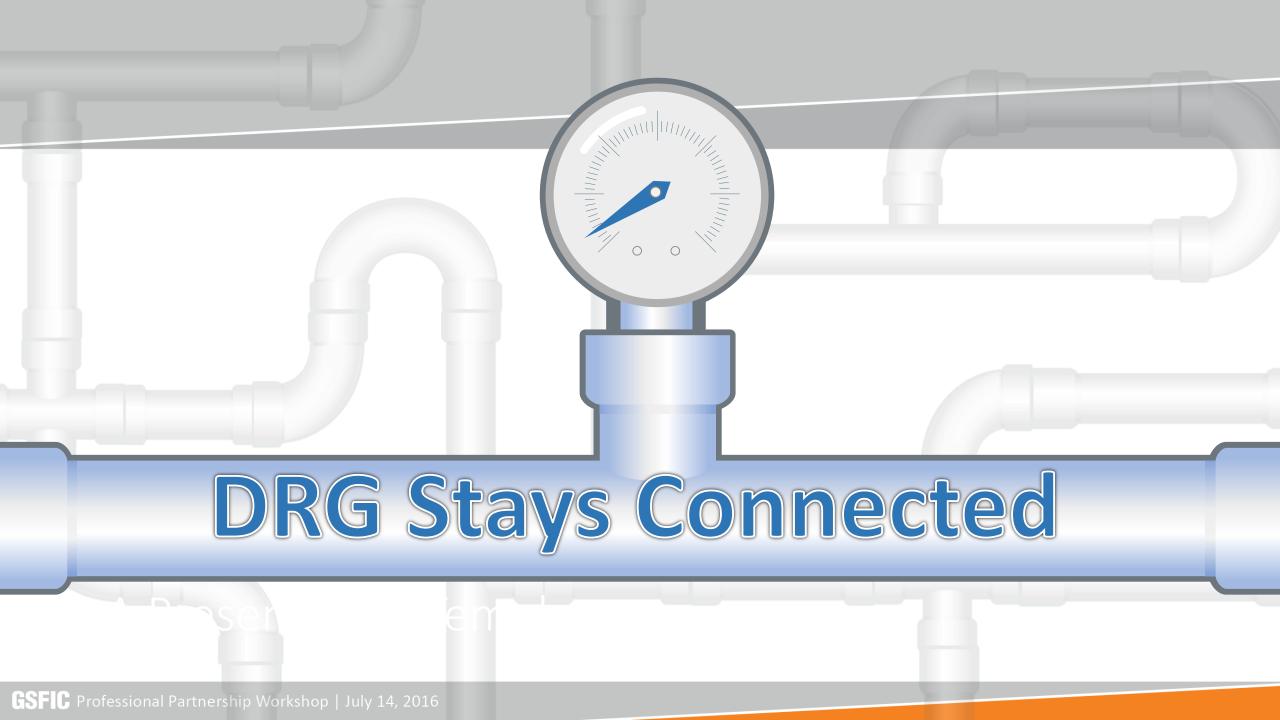
All comments should be closed by 3rd back-check!



В	С	D	E	F	G			
		Architect	tural Constructability Review Comments	Date: 10/23/12				
		Architect	CD Review Comments	Date: 11/19/12				
oject-			CD Review Comments	Date: 11/30/12				
	Atlanta, Geor	raia	DD Date: 12/4/12					
ocution	Additio, GCO		: Ifiok Immanuel	CCO#3: 2/13/13				
			404-463-5686	GMP: 4/19/13				
				Date: 6/5/13				
				CD Date: 8/5/13				
				not block of the				
Comm. No.	Drawing/ Specification Reference Number	Room/ Detail Number	Reviewer's Comments	Architect's/Engineer's Response	Status Open/Close d			
52	A-501	1/A-501	Steel column at mechanical penthouse screen wall references structural however details are not provided on structural drawings.	note is referencing to refer to structural for column sizes.	Closed			
53	A-501	1/A-501	4" perforated corrugated metal panel on steel detail not provided.	See 2/A-623 and 3/A-623	Closed			
54	A-506	1/A-506	Verify that electric vault has a 3-hour minimum fire- esistance rating. Also submit vault plans to GA Power for eview. This has been coordinated. Vault plan to be submitted.					
55	A-610		Omit reference to Won-door on plans or list 3 manufacturers: Except in the most unusual circumstances there can be no justification for listing fewer than three proprietary names otherwise the owner will not have the benefit of competition.	Omitted.	Closed			
56	A-703	10/A-703	Overlapping stringer at north stair section. Is this a graphics error? See comment #72.	Graphics error	Closed			
			BIM Model (See attached images)					
57	Mechanical		Pipes intersecting with pipes	to be coordinated	Open			
58			Pipes and ducts intersecting	to be coordinated	Open			
59			Floating roof components	to be coordinated	Open			
60			Roof intersecting ducts	Roof design was not completed nor coordinated at completion of DD. Final roof height of mechanical penthouse was not coordinated at the date of DD. Future issuances should have this coordinated.	Open			
			The state of the s	Siloulu liave tilis coolulliateu.				
61			Plumbing pipes embedded in the ceiling	To be coordinated.	Open			
61	Arch/Mech	Roof	Plumbing pipes embedded in the ceiling Duplicate/intersecting mechanical equipment at roof. These components should be deleted at CD completion. In the interim they should be hidden.	To be coordinated. Arch mechanical equipment reflects SD sizes and is shown for coordination as well as renderings that were based on the Revit model. Do you want us to delete these components at the completion of CDs?	Open			
	Arch/Mech	Roof	Duplicate/intersecting mechanical equipment at roof. These components should be deleted at CD completion. In the interim they should be hidden. Ductwork extends beyond the penthouse roof	To be coordinated. Arch mechanical equipment reflects SD sizes and is shown for coordination as well as renderings that were based on the Revit model. Do you want us to delete these components at the				
62	Arch/Mech	Roof Level 0 -	Duplicate/intersecting mechanical equipment at roof. These components should be deleted at CD completion. In the interim they should be hidden. Ductwork extends beyond the penthouse roof Several locations with pipes and ductwork intersecting	To be coordinated. Arch mechanical equipment reflects SD sizes and is shown for coordination as well as renderings that were based on the Revit model. Do you want us to delete these components at the completion of CDs? Extensive coordination on penthouse has taken place since DD. We hope to have these issues resolved soon.	Open			
62	Arch/Mech	Roof	Duplicate/intersecting mechanical equipment at roof. These components should be deleted at CD completion. In the interim they should be hidden. Ductwork extends beyond the penthouse roof	To be coordinated. Arch mechanical equipment reflects SD sizes and is shown for coordination as well as renderings that were based on the Revit model. Do you want us to delete these components at the completion of CDs? Extensive coordination on penthouse has taken place since DD. We hope to have	Open			

DRG Review Comments

Reviewer's Comments	Architect's/ Engineer's Response				
POST-BID ADDENDUM #1					
(Documents, dated 3/18/16)					
No comments.	Thank you				



Design Through Construction

- DRG Fire Protection Shop Drawings & Performs Site Inspections
- Review and Inspection of Fire Alarm Systems
- Assessment of Existing Buildings
- Assistance for the SWCC for their Dam Program, Site visits including LDP assistance

Design Submittals

(ASTM E 1804)

(PDF)

(File Name)

Completeness - to match industry standards

Uploads — PDF & CAD/ BIM native formats

Grouped by A/E
Discipline – Not zipped. Use
GSFIC Project Number

(Call)

(QA/QC)

(Back Check)

(Specs)

Reviewer if you have questions

Perform – before upload

Reference Sheet #

- where changes have been made in responses

Single PDF File

(**'03' Folder**)

(Submit)

File Destination – remains the same for every upload

Hit This Button – This is common oversight



GSFIC Professional Partnership

Approved Fire Marshal Plans

Must be on site always

Approved Shop Drawings - Fire

Projection and Fire Alarm onsite prior to installation

Prefunction testing - conducted prior to requesting DRG inspection







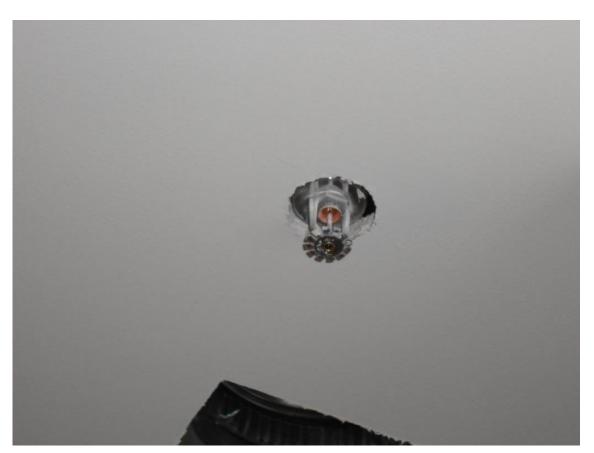
Fire Alarm Inspections





Fire Protection Inspections





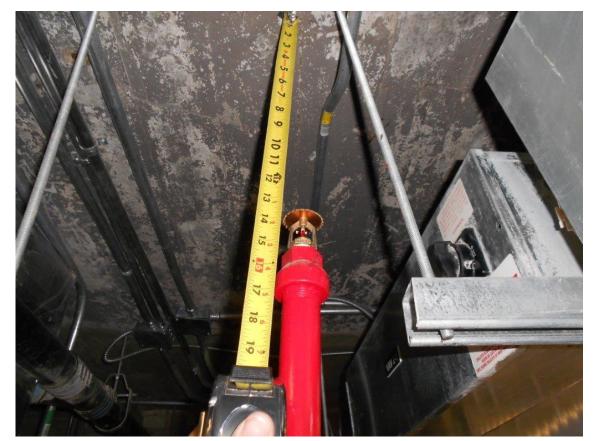
Fire Protection Inspections



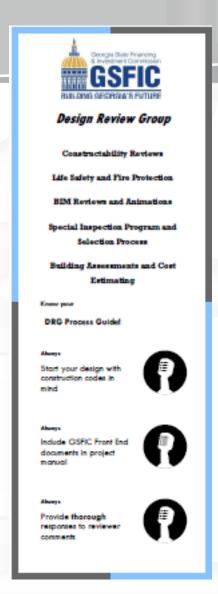


Fire Protection Inspections





Bookmark This!!!



Process Guide!
Construction Codes!
Review Comments!



