



2025 Architect Engineer Construction (AEC) Symposium

SD-410 Review Process

April 29, 2025



I-Manage Replacement

- I-Manage
 - Existing Workflow
- Bluebeam
 - Introduction
 - Workflow
 - Getting Started

3D Design Review Revizto Introduction Workflow







I-Manage Replacement Bluebeam





Current SI SD-410 Design Review Process – I-Manage





| 0,134 | | None Page | |
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| | | | Print this pag |
| 14 Comment | s matching your search criteri | a were found. | |
| Comment | 315 | Reviewer | |
| No. Submission | 65nc Design Submission | Item | Spec 013250 |
| Discipline | General Conditions | Date Posted | 02/14/2025 |
| Time | 09:57 AM | Security | Not a Private Comment |
| Posted | Chandrad CI DIM and Easting 012 | 2000 and included places include with a | |
| Response | We will provide with the next sub | mission as requested. | lext submission. |
| Email Reviewer | | | |
| Comment No. | 316 | Reviewer | |
| Submission | 65pc Design Submission | Item | Spec 017823 |
| Discipline | General Conditions | Date Posted | 02/14/2025 |
| Time Posted | 09:57 AM | Security | Not a Private Comment |
| Comment | Standard SI OM Data specification | n 017823 not included. Please include | with next submission. |
| Response | We will provide with the next sub | mission as requested. | |
| Email Reviewer | | | |
| Comment No. | 317 | Reviewer | |
| Submission | 65pc Design Submission | Item | Cost Estimat |
| Discipline | General Conditions | Date Posted | 02/14/2025 |
| Time Posted | 09:58 AM | Security | Not a Private Comment |
| Comment | Estimate does not appear to have | e capture SI's laser scanning requireme | nts. Please refer to Spec 01 3250 |
| Response | Estimate will be updated to include | le laser scanning in the next submission | n. |
| Email Reviewer | | | |
| Comment No. | 318 | Reviewer | |
| Submission | 65pc Design Submission | Item | Spec 087100 |
| Discipline | General Conditions | Date Posted | 02/14/2025 |
| Time Posted | 10:04 AM | Security | Not a Private Comment |
| Comment | Spec 087100 Door Hardware was | not issued. When is this section being | issues. It needs to be reviewed with OPS (KlineM) |
| Response | Section was issued with 65% set | of drawings. We will provide an update | when available. |
| Email Reviewer | | | |
| Comment No. | 319 | Reviewer | |
| Submission | 65pc Design Submission | Item | Elec. File T |
| Discipline | General Conditions | Date Posted | 02/14/2025 |
| Posted | 10:11 AM | Security | Not a Private Comment |
| Comment | Electronic File Transfer agreement 252:227-7022 Government Right The Government shall have unlim performance of this contract, incl compensation to the Contractor. T such works to which he may asse three (3) years after completion of Contracting Officer | t included with Package. This is not req s (Unlimited) (Mar 1979) lited rights, in all drawings, designs, sp uding the right to use same on any oth The Contractor hereby grants to the go rt or establish any claim under design of the project agrees to furnish the orig | uired on SI projects and should be removed. Refer to - ecifications, notes and other works developed in the er Government design or construction without additional vernment a paid-up license throughout the world to all patent or copyright laws. The Contractor for a period of inal or copies of all such works on the request of the |
| Response | The EFTA is not for use between t | the owner and design team as our Cont | tract, as outlined in the comment, governs that. The EFT |



- What is Bluebeam?
 - Bluebeam is a PDF creation, reviewing, and editing software. There are four (4) tiers of Bluebeam Subscriptions.
 - Basics
 - Core
 - Complete
 - Unpaid Collaborator
 - Bluebeam Revu provides powerful file sharing, markup, editing, and collaboration technology via the Bluebeam Studio Platform
- How does Bluebeam benefit SI?
 - Review, Markups and Comment tracking directly on to Documents
 - Less initial costs for training and implementation
 - Meets security concerns
 - Allows user to generate comments and markups reports
 - Studio Sessions are real-time collaborated. All users in the Session markup the document, and everyone can see what others are adding or have added
 - Maintains record that captures user activity, including the username and what they added, modified or removed from the PDF
 - A user's markups are fully protected by their unique Studio login, users are only able to modify or delete their own markups







- Participants will need to have a Bluebeam profile to access Bluebeam Session
- Participants will receive emails similar to the adjacent images
- Participants shall click on the link in the email to access Bluebeam Session





How do you want to join this Studio Session?



Don't have Revu? Download here.



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| re a Deam In gn up | E BLUEBEAM | Please utilize Full Name or First Initial and full last name when creating an account This is the Name that will be associated to Review Comments | Erglish (US) |
|-----------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| | Don't have an account? Sign up | | Confirm Password |
| | Back to sign in | | Create Account |
| | Signing in accepts our <u>Terms of Use</u> | | Already registered? Sign in. |

- Participants will need to have a Bluebeam profile to access Bluebeam Session
 - Participant with Bluebeam ID proceed with Sign In
 - Participant without Bluebeam ID Click Sign up,



Smithsonian Office of Planning, Design, and Construction











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- Every markup that is made to a PDF will be recorded on the Markup List
 - List can be found Bottom Panel of Desktop App & Right Panel of Web App
- Users may search the list in both the Desktop App & Web App
- Additional features are available such as filter and sorting of the list with the Desktop App
- To Provide Response to the Comment Users are to Reply to each Comment directly within the Bluebeam Studio Session
 - Desktop App Right click on Comment and Select Reply, then type response
 - Web App Left Click on Comment, this will open an dialog box. Type comment and hit the send icon

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- Changing Status of a Markup
 - Desktop App Right Click on the markup and chick "Set Status" and then select Status from the drop down
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- Comments should be responded to directly within the Bluebeam Studio Session
- Additionally, Comment can be shared via other formats to assist with response to issues / comments
 - Excel (.xlsx) file with Comments (Not recommended without additional context)
 - PDF file with Comments and images of the Issues / Comments

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| ZEBSOFOCSCRIME | | Callout | Ebpc Plans 05_Architectural A-133 - OVERALL FINISH PLAN - LEVEL 02 | Suggest limiting use of 12HIL in common areas. | | | Does not match what's shown on |
| PDAAGWOWGPOINZ | | Callorit | KOPC Plans 00_Architectural A-123 - OVERALL REPLECTED CEIUNG PLAN - LEVEL 03 | Typ: How will this random starry layout to achieved? | 444 | Page Label: 65pc Plans 05 Architectural A-123 - OVEHALL | |
| BGGKXDOVCBETPHPW | | Callout | EDpc Plans 05_Architectural A-48E - ENLARGED INTERIOR PLANS & ELEVATIONS | What is purpose of cabinets in Sensory room? | | PEELECTED CEILING PLAN LEVEL 02 | elec. dwgs |
| MWDRUMDOORDADQ | | Callout | Ebpc Plans 02_Divil C-102 - Demotition Plan | Add note identifying Voyage british and Brithsoman Null-ente signage removed prior to Rwitalization but tocations to remain and be constructed | | THEFLEGTED GEILING FLAN - LEVEL 03 | 5. The second |
| UGIDMPTF3WEMG38 | | Callout | Kipt Plans 02, CMI C-105 - Ste Plan | Coordinate existing mail wide Smithsonian signage located near this new work. Existing signage to remain, | 10.000 | U.T. Author: McBeynoldsW | |
| MAINPERPLICATE | | Callout | REpic Plana 12_Telecomm 11-113PP - TELEDOM OVERALL PLOOR PLAN -LEVEL 63 | Confirm regularment for Phone Room to have reflective port. | Does not mater | | |
| NNXGENUOISOOHU2 | | Callock | 60pc Pians 12_Telecomm TT-112FP - TELECOM OVERALL FLOOR FLAM -LEVEL 12 | Confirm desired layout for fables and floor devices. This layout doesn't allow for insuch flexibility for other arrangements. | minut's shreet | Date: 2/8/2025 3:28:34 PM | |
| WWA28A2NMBVUGAG | | Callout | Köpc Plans 05_Architectural A-050 – ARCHITECTURAL SITE PLAN | Check backgrounds - this locks like loading dock? | the man shares | Chathran | |
| OUCUREXTOD/ISALVB | | Callout | ESpe Plans OD_Architectural A-051 - ARCHITECTURAL BITE SUB-TERRACE DRAINABE PLAN | Check background - looks to be Louding dock plan. | an and ange | Status: | |
| GTDLPRCMEBUNSFER | | Californ | KOpic Plans 05_Architectural A-121 - OVERALL REFLECTED CEIUNG PLAN - LEVEL 01 | Typicar: Drywall cellings to be ocordinated with access panels and other devices. Consider adding ACT. | | Color | |
| XMSZIDGVIAEDMMGI | | Callout | R5pc Plana 08_Electrical E-8045H - ELECTRICAL SCHEDULES -LIGHTING FIXTURES | Descritiseen like the most appropriate light hubure for these room types. Review and coordinate with baffie design if they remain. | - C () | | |
| CX8568PMEKHJOH2K | | Callout | 60pc Pians 05_Architectural A-123 - OVERALL REFLECTED CEIUNG PLAN - LEVEL 63 | What is function of back light in offices? | | Laver: | |
| XNTGREINDOOZETY® | | Callout | Köpe Plans 00, Architectural A-113 - DVERALL FLOOR PLAN - LEVEL KÖ | Circulation banquet? What is driving this requirement? | | | |
| STROESGMTREHSOZS | | Callout | E5pc Plans 08_Elactrical E-113FP - OVERALL POWER FLOOR PLAN -LEVEL 03 | Coordinate with Arch dags - shows microwave and power at this Island. | | Space: | |
| ObvitBridekonOvinv | | Callout | 60pc Plans 92_Civil C-192 - Demolition Plan | Confirm existing site conditions | | | |
| CACONCNENDED KGAL | | Callout | tope Plane 05_Architectural A-112 - OVERALL FLOOR PLAN - LEVEL 03 | Microwave can sit on counter and this can be FTC similar to other NASM Particles on L3, millionit not desired. | | 6997 | |
| COCHARMAN MACHIDDHB | | Galiout | KOpic Plane 00_Anchemictural A-132 - OVERALL FINISH PLAN - LEVEL 02 | General treat comment. WC, acoustic panels, metal wats, and special design finishes do not seem to fit the budget. Please review and provide more budget consci | | | |
| INCOMPANY/NOTED FYN | | Gallout | sope mans us avenues unit A-122 - OVERALL FINISH PLAN - LEVEL 02 | wica in common componisemble scessive and not necessary. This requires level 3 linish and materials where paint would be more cost effective. | | | |
| NPWX.0494PTBB/ELU | | Callout | topic Plans to Architectural A-407 - ENLARGED INTERIOR PLANS & ELEVATIONS | Provide details | | | |
| WINDQX/MAEWLNUKIZ | | callout | KODIC MIGHTS OD_AVENITISCITIVI A 407 - ENLARGED INTERIOR PLANS & ELEWITIONS | Provide defaults | | | |
| TBMLTHPXQSPAPPW | | Caflout | top: Plans 00, Plansing P-110PP - PLUMBING PLAN -LEVEL BI | identity specific street | | | |
| CADE UCHERENCERV) | | Cabout | Kope Mans Us_Architectural A-132 - OVeRALL HINTER PLAN - LEVEL 82 | Suggest stimmating back will W2s to cut costs and remain consistent with Breakout rooms along glass storefronts. | | | |
| WITEFBELSWGHOKESD | | Gallout | 60pt Plans 00, Architectural A-333 - OVERALL FINISH PLAN - LEVEL 03 | Wood base doesn't seem like most appropriate choice for restrooms. | | | |

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coordinated with Electrical Dwg.

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Subject: Cloud+

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Author: McReynoldsW Date: 2/8/2025 3:24:56 PM

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REFLECTED CEILING PLAN - LEVEL B1 - AREA S

Page Label: 65pc Plans 05_Architectural A-121 - OVERALL

REFLECTED CEILING PLAN - LEVEL 01

REFLECTED CEILING PLAN - LEVEL B1 - AREA S



Bluebeam Learning Center

| | Bluebeam University | , |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Self-pad | ced and live web training included with your subsc Here are a few of our most popular courses: | iption. |
| Revu Essentials Learn the essential skills you need to confidently use Revu. | Drafting & Sketching Learn how to add new content or represent items at scale. | Quantity Takeoff Perform takeoffs in Revu more quickly and accurately. Learn More > |
| lf you'r | See All Courses > e a Bluebeam subscriber, please check your origina invite email for login information. | al BBU |





3D Design Review Revizto



- A plug-in application to varies BIM Platforms
- The 3D model is presented in an easy, intuitive video game-like interface



MAP VIEW

NAVIGATION

OBJECT DATA

MEASURE TOOL



ROOMS

SECTION CUT

2D PLAN OVERLAY









How does Revizto benefit SI?

- Provides a means for collaborative reviews of 3D Models
- Provides an enhanced detailed review of the 2D documents
- Reduces learning curve required with typical BIM software applications and workflows
- Ability to capture comments directly within the Model
- Provides a lightweight application that works within Software and Computing constraints.
- Ability to perform immersive VR Reviews to gain better insight into functionality of spaces











• Ability to capture comments directly within the Model









- Enables the ability to tie into the typical SD-410 Process
- Ability to engage directly with Design and/or Construction Teams
- Address Major & Typical Design Issues
- These issues track during the design Phase Can be rolled into Construction Coordination.

3D Design Review – ReviztoTM

- Comments will be shared via the SD-410 Process in Varies Formats to assist with response to issues / comments
 - .EXE Self Executable file of the Revizto Model with Issues / Comments
 - Excel (.xlsx) file with Comments and links to image of the Issues / Comments
 - PDF file with Comments and links to image of the Issues / Comments
 - If A/E and or Contractor utilizes a Revizto workflow internally model can be shared directly to allow to more direct collaboration to resolve Issues / Comments

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| Thursday, Febr | sary 13, 2025 Open | Nane | Update to reflect As-Built Condition | | Mathan created | | Thursday, February 53, 2025 | Saturday, January 1, 200 | 8 |
| Thursday, Febr | uary 33, 2025 Con | None | New Work not coordinated with existing to remain | | Machani constant | | Thursday, February 13, 2025 | Saturday, January 1, 200 | P. |
| Thursday, Fabr | uny 33, 2025 Dean | None | New Work not coordinated with existing to remain | | | | | | |
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| Thursday, Febr | wery 13, 2025 Open | None | Plank / Mech Candinatian | | | | | | |
| Thursday, Febr | sary 13, 2025 Dyan | Name | Planb / Mech Coordination | | | | @ ID 178 | None | Open |
| Thursday, Febr | cary 13, 2025 Open- | Nere | Update to reflect Au-Bulk Condition | | | | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | See. | |
| Thursday, Febr | cary 13, 2025 Eperat | Nece | New / Exhibing - Verify As-Built Condition and coordinate an | | | and the second second | 16 | | |
| Thursday, Fabr | very 33, 2025 Open | Neve | Hamb / Much Coordination | | A.N | | Duct / Pipe Coordinati | on issue | |
| Thursday, Febr | very 13, 2025 Open | None | Light facture locations aren't coordinated between architect | | | | NON TON | | |
| Thursday, Febr | very 13, 2025 Open | Nane | Architectural shows Sgitt future in Mech | | | | 100 | | |
| Thursday, Fabr | very 13, 2005 Carn | Name | Coordination w/ Existing to remain | | | | | | |
| Thursday, Fale | uny 13, 2005 Dawn | New | Coordination of Islating | | 1000 | | Banar Sal | | |
| Ungades into | 14, 1005 Dame | No. | Coordinate may (anisting | | | | Connet | Tursday | |
| The state | and the start of the start | | North Caller & Construction | | | 10-11-1-1 | 23/Feb/2025 | Not set | |
| | | | | | DINING B110 | Lipitated by | | | |
| | | | | | 23/Feb/2025 1:68 EST | Tags: | | 14-16 () () () | |
| | | | | | | | 6 10 <u>179</u> | None . | Open |
| | | | | | | | Duct / Pipe Coordinati | on issue | |
| | | | | | | | Reporter Created 23/Feb/2025 Procet | Cleanifirer Not set | |
| | | | | | | | Open in Revizio Open in Web Issue Tra | cker | |
| | | | | | Ream DINING B110 | | | | |
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Thank You!

Mike Carrancho – Chief of Engineering and Design - <u>CarranchoM@si.edu</u> Billy McReynolds – Project Manager – <u>McReynoldsW@si.edu</u>