Stoneboy

Overview of Services & Solutions

Simple Useful Meaningful

Services and Support for all Phases of Construction Project Lifecycle

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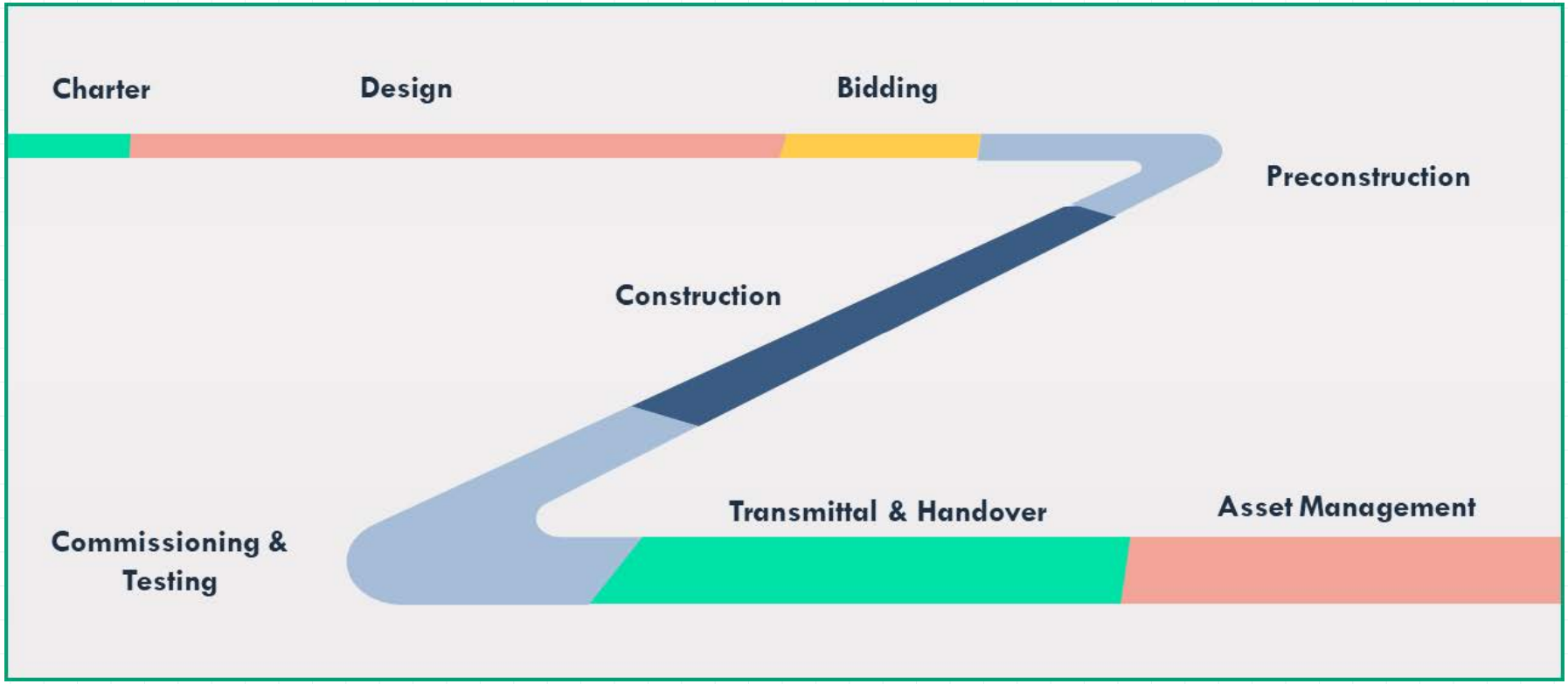

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Services for the Project Lifecycle - *Scheduling & Claims Management*

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Project Start

Schedule Development

- Bid Schedules, Design Schedules
- Estimate Schedules
- Preliminary Schedules
- Baseline Schedules
- Cost Loaded Schedules
- Resource Loaded Schedules
- Integrated Master Schedules

Schedule Management

- Schedule Monitoring
- Schedule Review and Analysis
- Critical Path, and Near Critical Path Analysis
- Schedule Update
- Schedule Reporting
- Schedule Maintenance and Upgrade

Project Administration, Change Management

- Impact Assessment due to Scope Change, Scope Extension, Accepted Delay, or Accepted Time Extension
- Change Order Impact Management – Integration with Baseline Schedule
- Recovery Schedule (Re-baseline)
- What-if Scenario Schedule
- Schedule Adjustment, Schedule Acceleration
- Recovery Schedule (Reconfigure baseline)

Construction Claims / Construction Dispute Management (CDM)

- Forensic Scheduling
- Variation Analysis, Time Impact Analysis
- Claim Preparation, Claim Defence
- ADR, Litigation Support
- Expert Witness Testimony

Project Completion

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Services for *Scheduling*

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Project Start

Schedule Development

- Bid Schedules, Design Schedules
- Estimate Schedules
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Schedule Management

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Construction Claims / Construction Dispute Management (CDM)

Project Completion

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Services for *Claims Management / Construction Dispute Management (CDM)*

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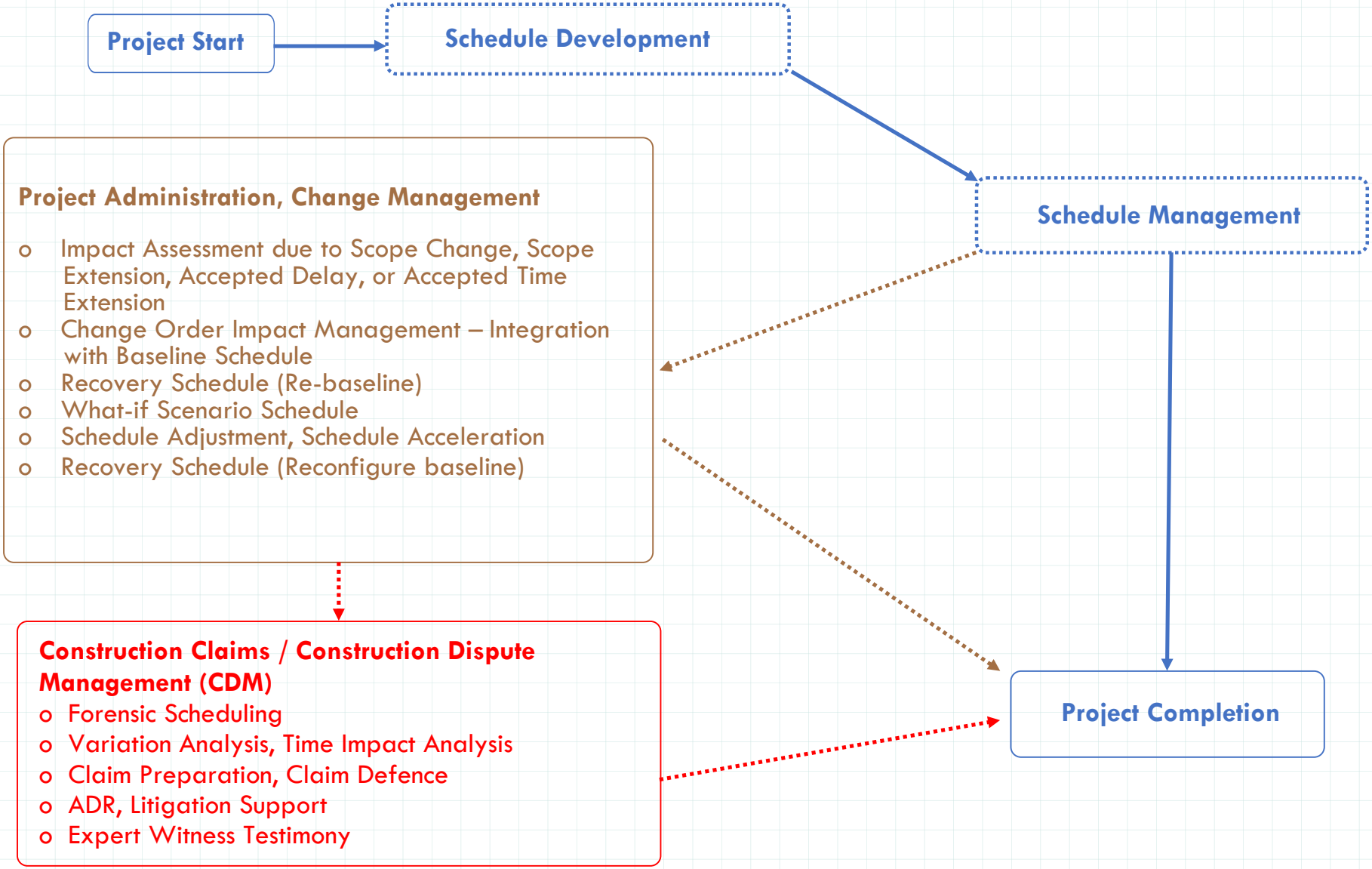


Simple Useful Meaningful

Optimized and efficient delivery

Stoneboy

Stoneboy's delivery is powered by processes, and driven by innovation.
At Stoneboy, lean management, simplification, and standardization of work products and templates help towards an optimized, and efficient delivery.

- **Architecture**
  - *SMoSA (Stoneboy Modular Schedule Architecture)*
- **Methodology**
  - *SRM (Stoneboy Reconfiguration Methodology)*
  - *VMP (Variation Management Protocol)*
- **Framework & Application**

MS100 Reporting Framework	modular reporting
Stoneboy Shell	WBS
SCT (Schedule Change Tracker)	variation management framework
VET (Variation Event Tracker)	variation management framework
CO Tracker	document tracker

- **Document**
  - *Project Register* ● *Project Basics* ● *Schedule Counter* ● *Schedule Mgmt Plan* ● *Workflow* ● *Crunch Sheet*
  - *Constructibility* ● *Typical Sequence* ● *Activity Relationship Inventory* ● *Schedule Report*
  - *Schedule Narrative* ● *Graphics* ● *Schedule Quality Report* ● *Schedule Update Form* ● *Notification*
  - *As Received Data Log* ● *Risk Sheet* ● *Archive Sheet* ● *Schedule User Guide* ● *Schedule Features*
- **Work Management**
  - *Roadmap*
- **Software Product**
  - *Novologic* — purpose built software product for construction & heavy engineering industries* (under development)
- **Knowledge Center**
  - *Brown Book*
  - *Lexicon*

Shown here is a select list of academic frameworks, document templates, and workflows developed in-house at Stoneboy.

Optimized and efficient delivery

Stoneboy

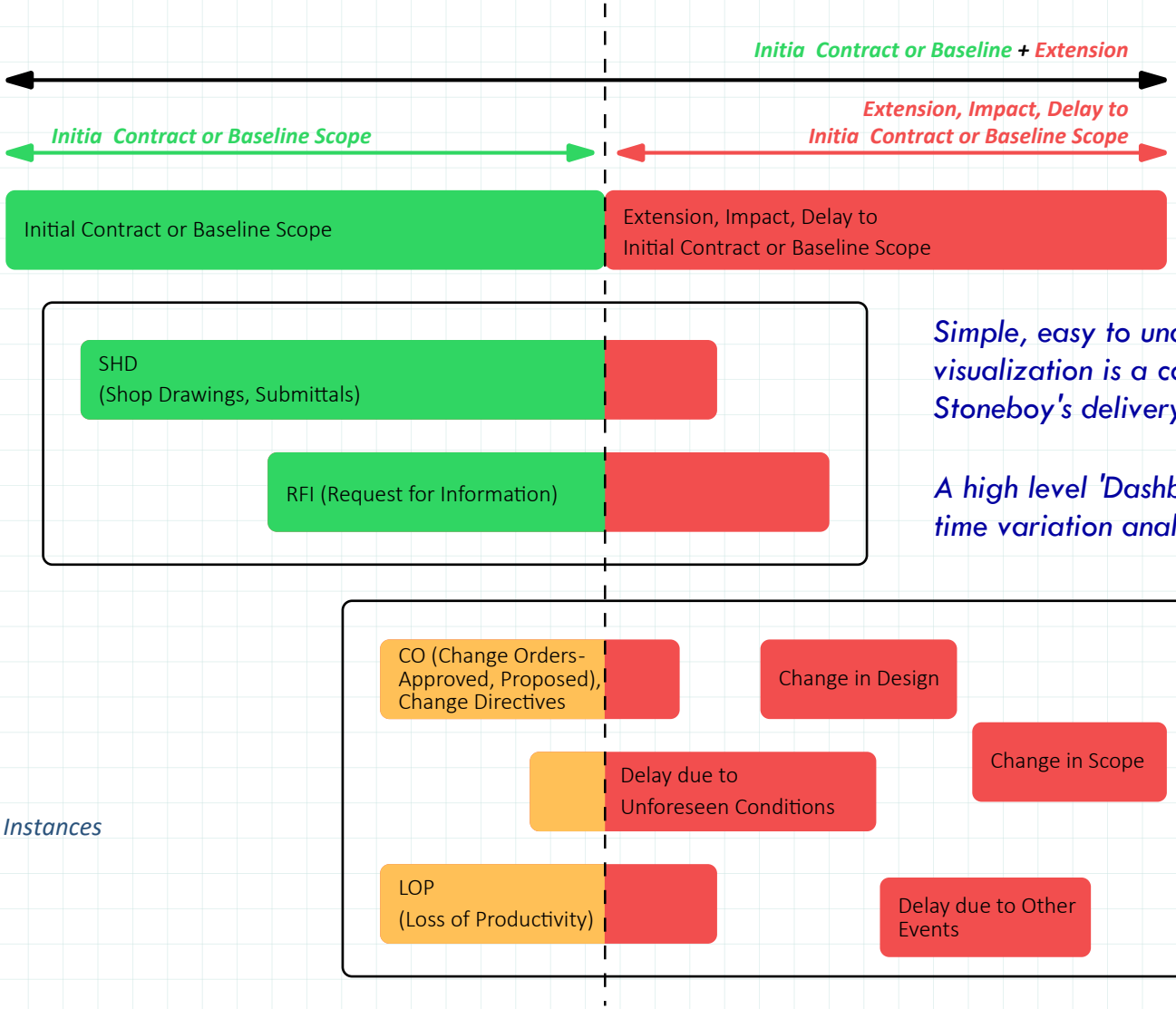
Standardization of workflows, templates, and work products has meant ease of use, transparency, and peace of mind for our clients.

Powered by processes, Stoneboy's delivery has offered superior user experiences to clients over conventional peer firms.

- **Standardized Scope and Delivery**
  Service Modules - Modular, flexible, efficient, transparent
- **Standardized Workflows**
  SPP (Standard Practice & Process) - Well defined, provide clarity of scope, and progress tracking
- **Standardized WBS**
  Stoneboy Shell, part of *SMoSA* - Modular architecture translates in to stackability, portability, and infinite scalability for project / program / enterprise controls
- **Standardized Narrative**
  Schedule Report - Standardized for articulate monitoring, and reporting
- **Standardized Assessment and Review**
  SQR (Schedule Quality Report) - Structured,brief, and objective. In two formats, *SQR Basic* and *SQR Advanced*
- **Print Layouts**
  Standardized for easy identification of information, effortless navigation, conductive user experience

Project Data Visualization

Stoneboy



Simple, easy to understand data visualization is a cornerstone of Stoneboy's delivery.

A high level 'Dashboard View' of a time variation analysis is shown here.

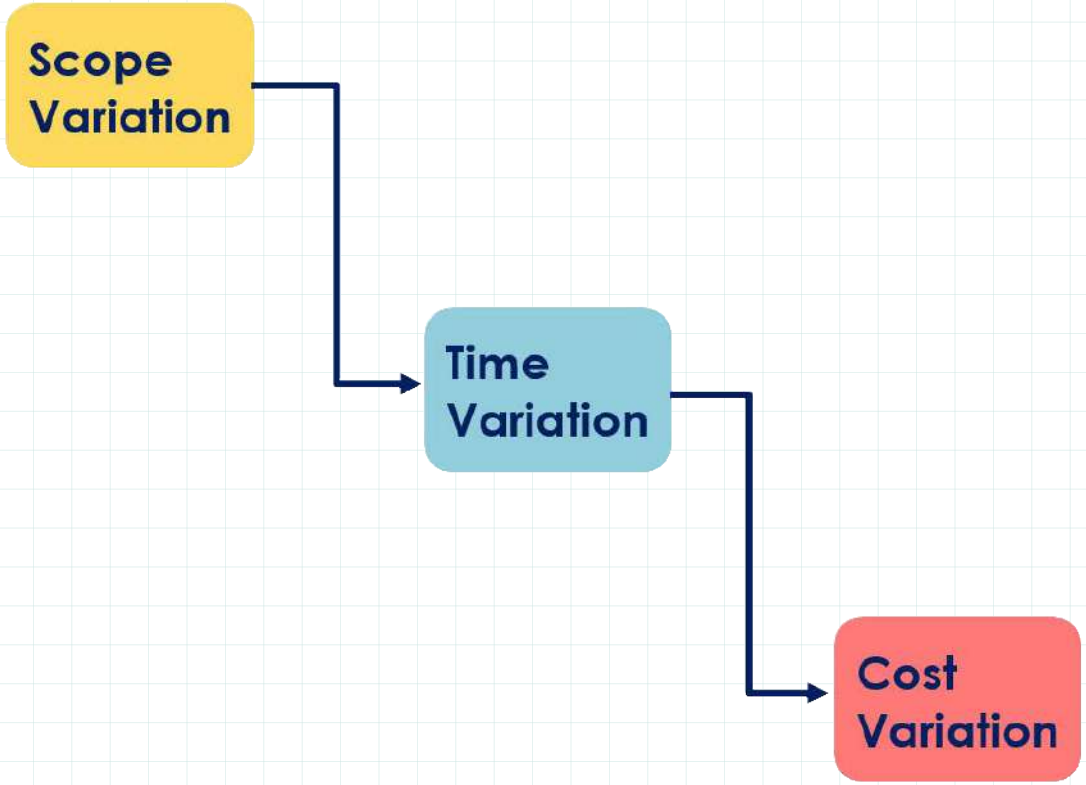
A new perspective for *Variation*

Stoneboy

Variation Management Protocol (VMP) is a lean methodology developed in-house at Stoneboy.

VMP is utilized for quantification of Scope Variation, Time Variation, and Cost Variation corresponding to the Baseline Scope, Baseline Time (Project Schedule), and Baseline Cost (Project Budget).

VMP is a comprehensive methodology which utilizes calculus, and advanced data analytics for construction project reporting and analysis. A potential game changer in the field of Variation Analysis, Impact Analysis, Construction Dispute Management (CDM) / Construction Claims Management; VMP is a spin off of Stoneboy's holistic Project Data Management approach.

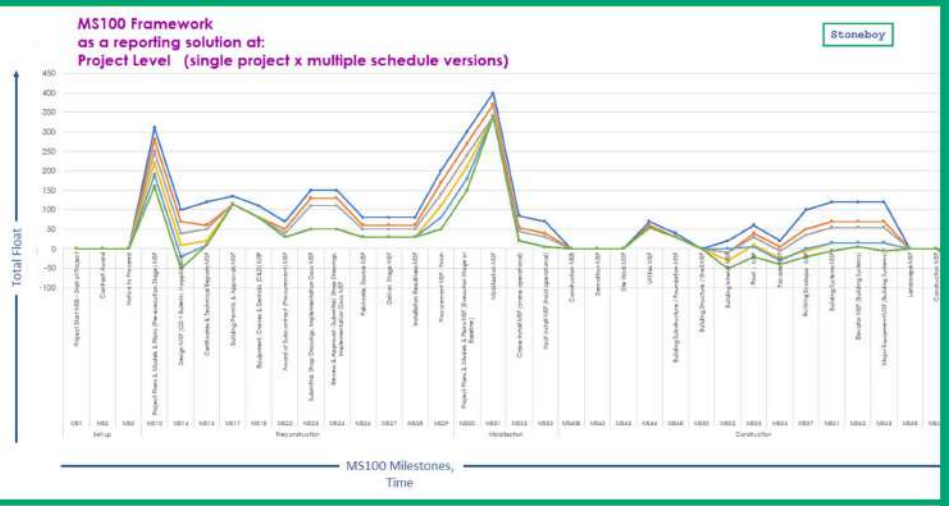


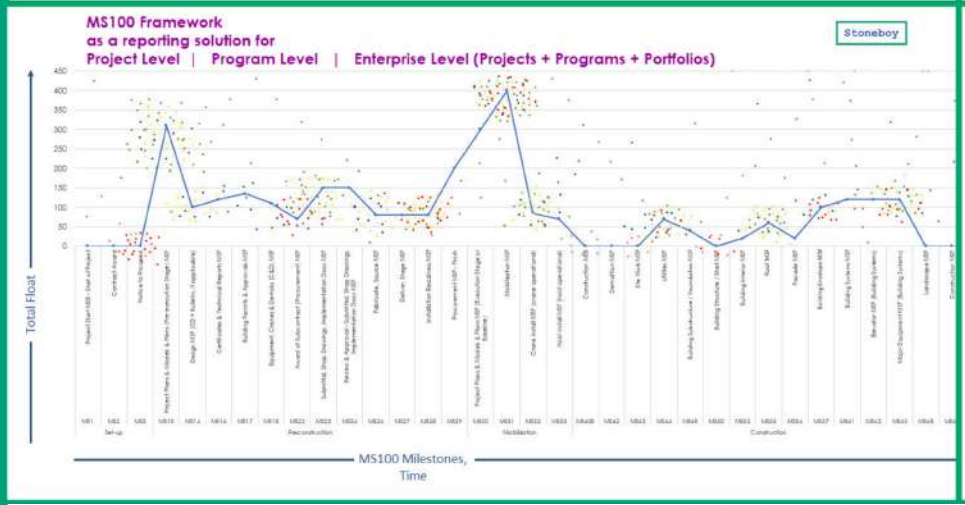
MS100 (modular reporting framework)

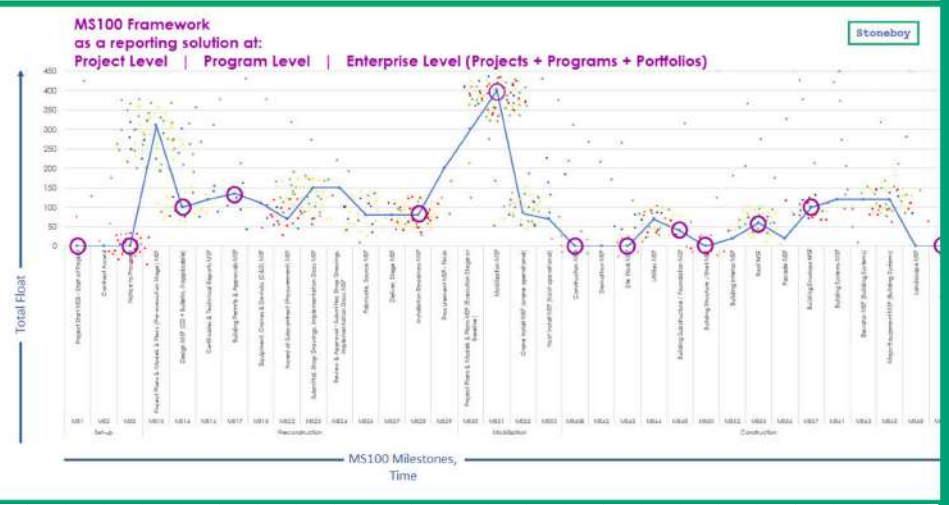
Stoneboy

Stoneboy's emphasis on simple, easy to understand data visualization, combined with its groundbreaking work in Project Data Management provides a host of customizable solutions.

Shown here is the MS100 'modular' reporting framework which is a scalable solution for scheduling , as well as variation analysis - at Project, Program, and Enterprise Levels. MS100 can be used for higher order statistical analytics using systems such as SAS, and R Programming.

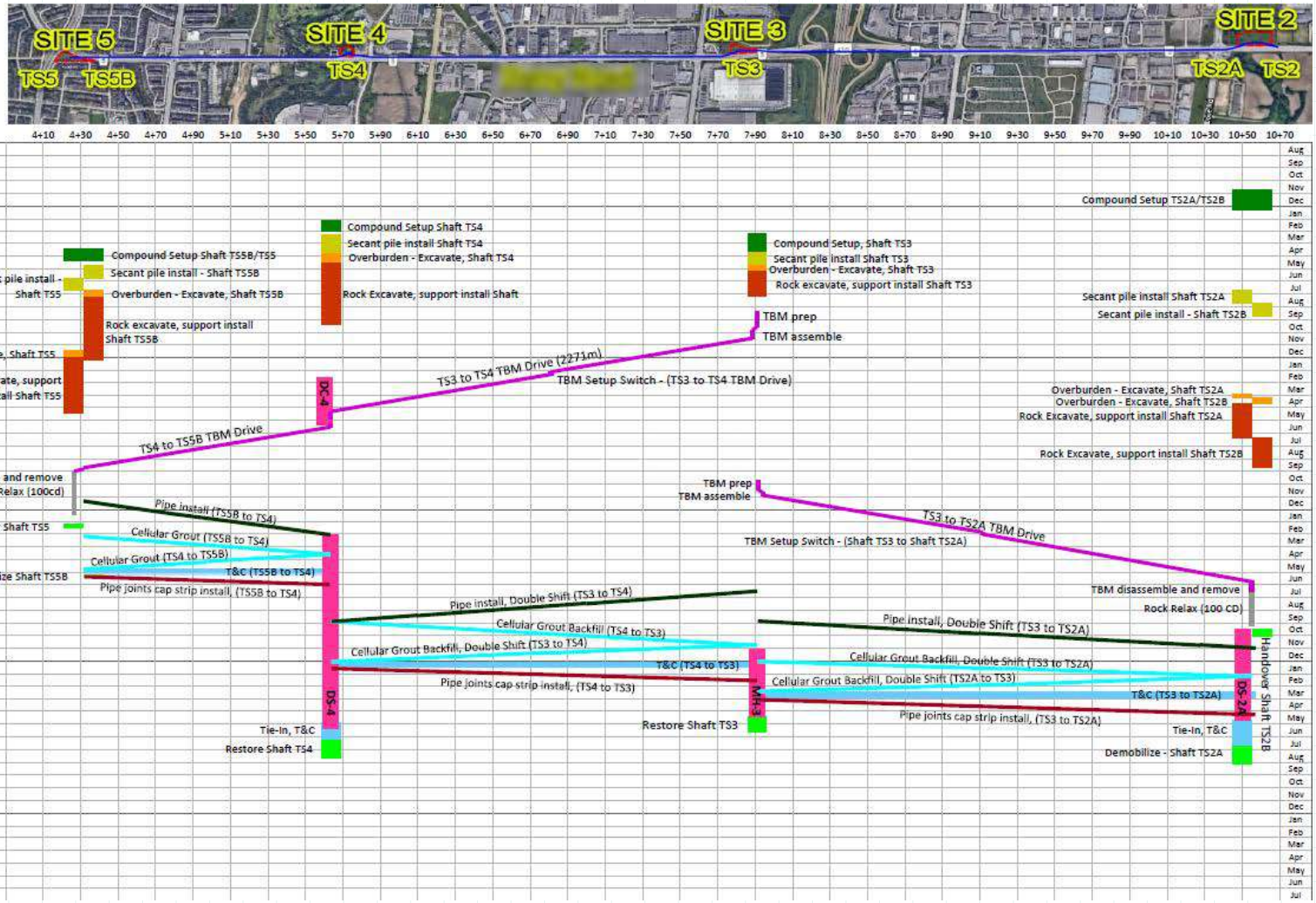






Work Sample

Stoneboy



Project: Infrastructure - Trunk Sewer

Mandate: Scheduling, Cost Controls, Claims Management

Simple Useful Meaningful

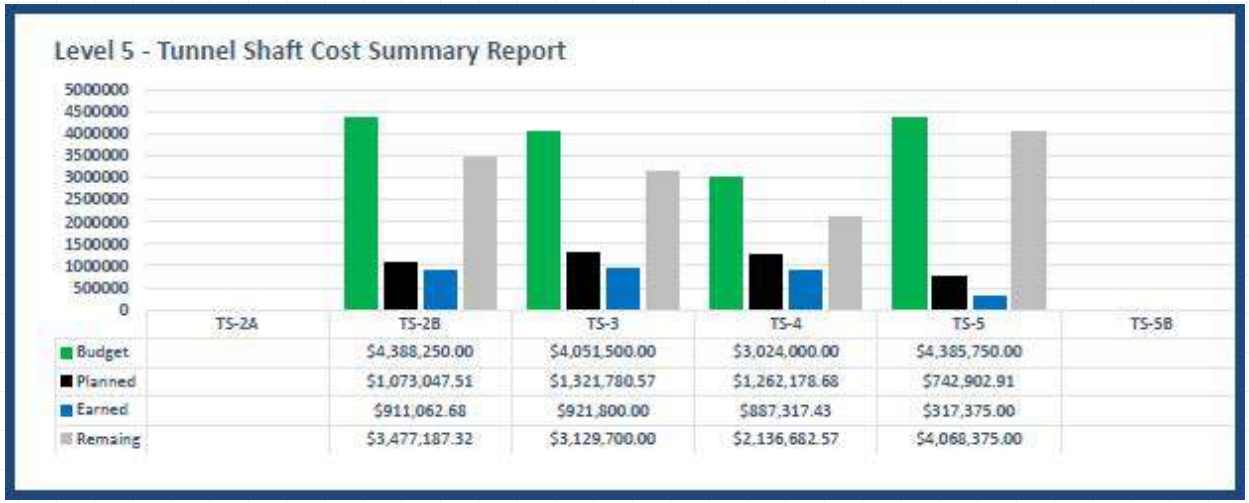
Work Sample

Stoneboy

	Tunnel Shaft	Tunnel Drive	Pipe	Cellular Grout	Cap Strips	Chambers	Testing & Comms	Procurement	Others
Budget	$15,849,500.00	$37,646,850.00	$6,866,059.20	$3,961,188.00	$2,376,712.80	$14,029,800.00	$195,000.00	$29,866,100.00	$10,388,741.50
Planned	$4,399,909.67	$-	$-	$-	$-	$-	$-	$-	$1,531,788.34
Earned	$3,037,555.11	$-	$-	$-	$-	$-	0	0	$1,463,000.00
Remaing	$12,811,944.89	$37,646,850.00	$6,866,059.20	$3,961,188.00	$2,376,712.80	$14,029,800.00	$195,000.00	$29,866,100.00	$8,925,741.50

Project: Infrastructure - Trunk Sewer

Mandate:
Scheduling,
Cost Control,
Claims Management



	TS-2A	TS-2B	TS-3	TS-4	TS-5	TS-5B
Budget		$4,388,250.00	$4,051,500.00	$3,024,000.00	$4,385,750.00	
Planned		$1,073,047.51	$1,321,780.57	$1,262,178.68	$742,902.91	
Earned		$911,062.68	$921,800.00	$887,317.43	$317,375.00	
Remaing		$3,477,187.32	$3,129,700.00	$2,136,682.57	$4,068,375.00	

Work Sample

Stoneboy

Project: Buildings - Institutional

Mandate: Forensic Scheduling, Variation Analyis, Extension of Time, Quantum

3 SUMMARY OF VARIATION ANALYSIS

Schedule Versions

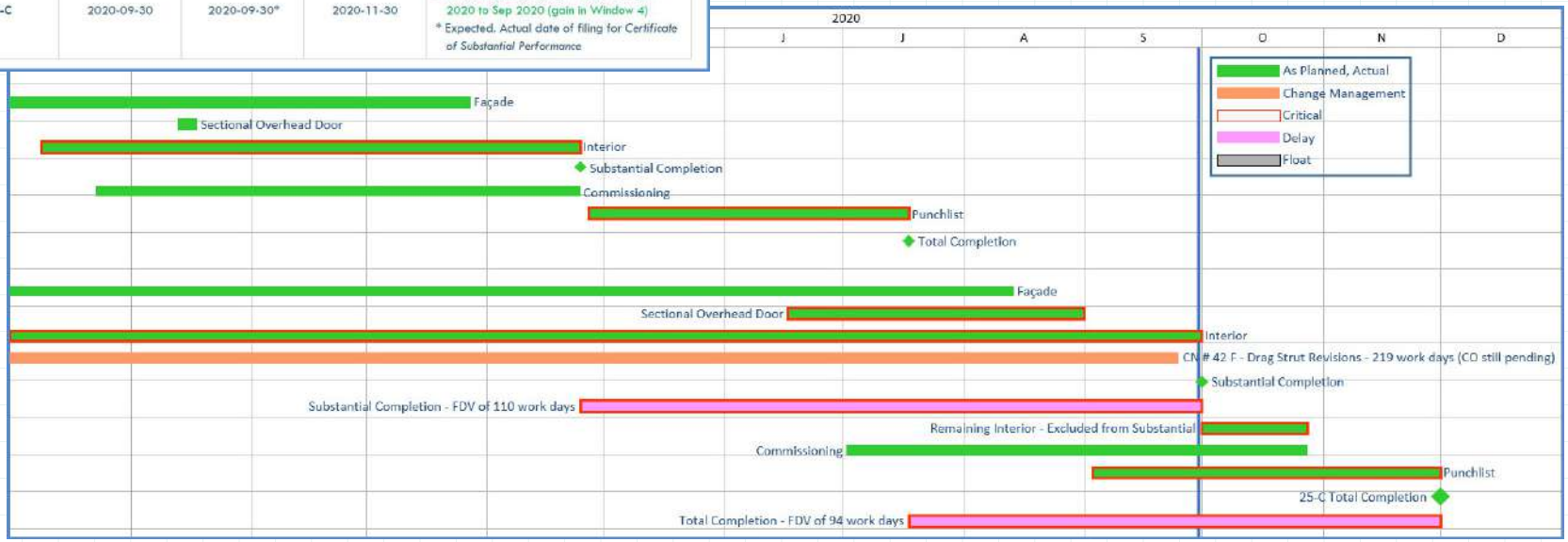
Schedule Version	Data Date	Substantial Completion (MS85)	Total Completion (MS100)	Note
1-A	2018-09-17	2020-04-24	2020-07-17	
1-C	2018-09-12	2020-04-24	2020-07-17	
11-C	2019-07-31	2020-07-10	2020-10-01	• Delay of 53 work days from baseline (delay in Window 1)
19-C	2020-03-31	2020-10-27	2021-01-20	• Delay of 128 work days from baseline • Delay of 75 work days from Jul 2020 to Mar 2020 (delay in Window 2)
22-C	2020-06-30	2020-12-08	2021-03-04	• Delay of 158 work days from baseline • Delay of 30 work days from Mar 2020 to Jun 2020 (delay in Window 3)
25-C	2020-09-30	2020-09-30*	2020-11-30	• Delay of 110 work days from baseline • Schedule gain of 48 work days from Jun 2020 to Sep 2020 (gain in Window 4) * Expected. Actual date of filing for *Certificate of Substantial Performance*

8 PROJECT TIME (SCHEDULE)

8.1 Project Date & Time Summary

Project Timeline

- **Project Time** ***As-Planned Duration*** **(contract time)**
  - At the beginning of project (1-C, Baseline) — 408 work days (591 calendar days including 15 holidays) (19 months and 13 days including 15 holidays)
- **Project Time** ***Actual Duration***
  - At the end of Sep 2020 (25-C) — 518 work days, actual delay of 110 work days (750 calendar days including 18 holidays)
- **Project Time** ***At Completion Duration (Actual Duration + Remaining Duration)***
  - On 2019-07-31 (11-C, Window 1) — 461 work days, cumulative delay of 53 work days
  - On 2020-03-31 (19-C, Window 2) — 536 work days, cumulative delay of 128 work days
  - On 2020-06-30 (22-C, Window 3) — 566 work days, cumulative delay of 158 work days
  - On 2020-09-30 (25-C, Window 4) — 518 work days, schedule gain of 48 work days



Work Sample

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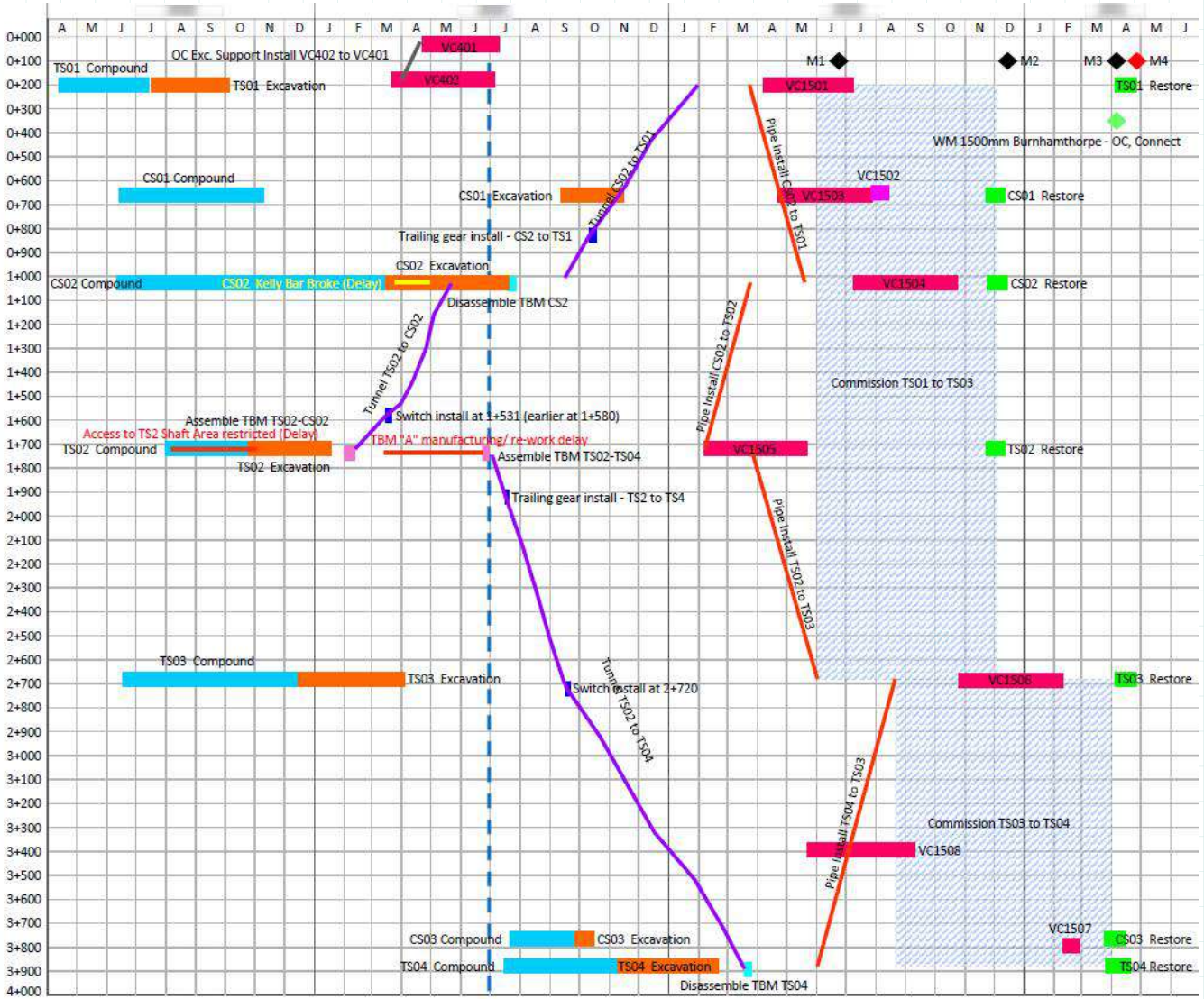

Project: Infrastructure - Trunk Sewer

Mandate: Scheduling, Forensic Scheduling, Variation Analysis, Extension of Time

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Work Sample

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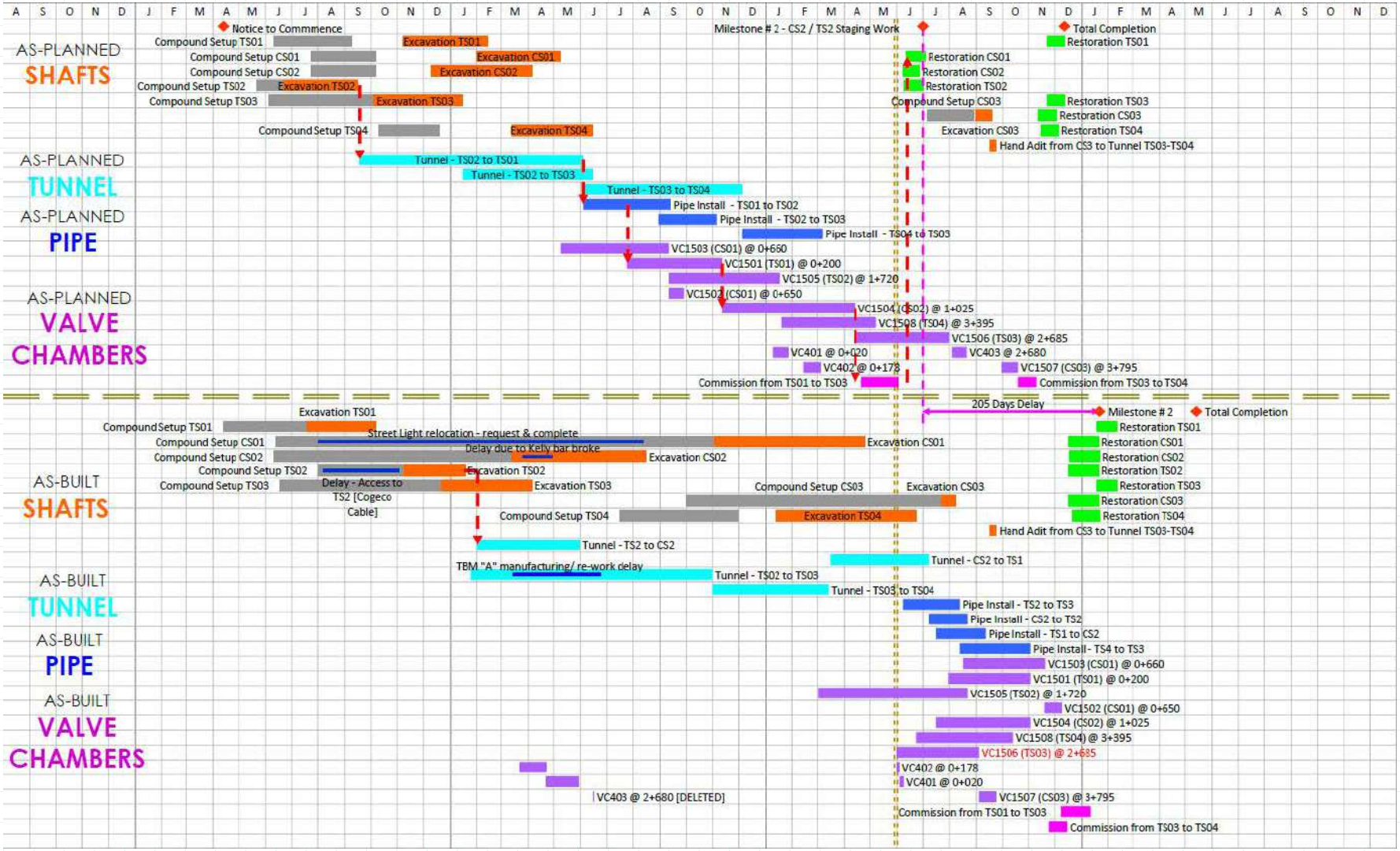

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Mandate: Scheduling, Forensic Scheduling, Variation Analysis, Extension of Time

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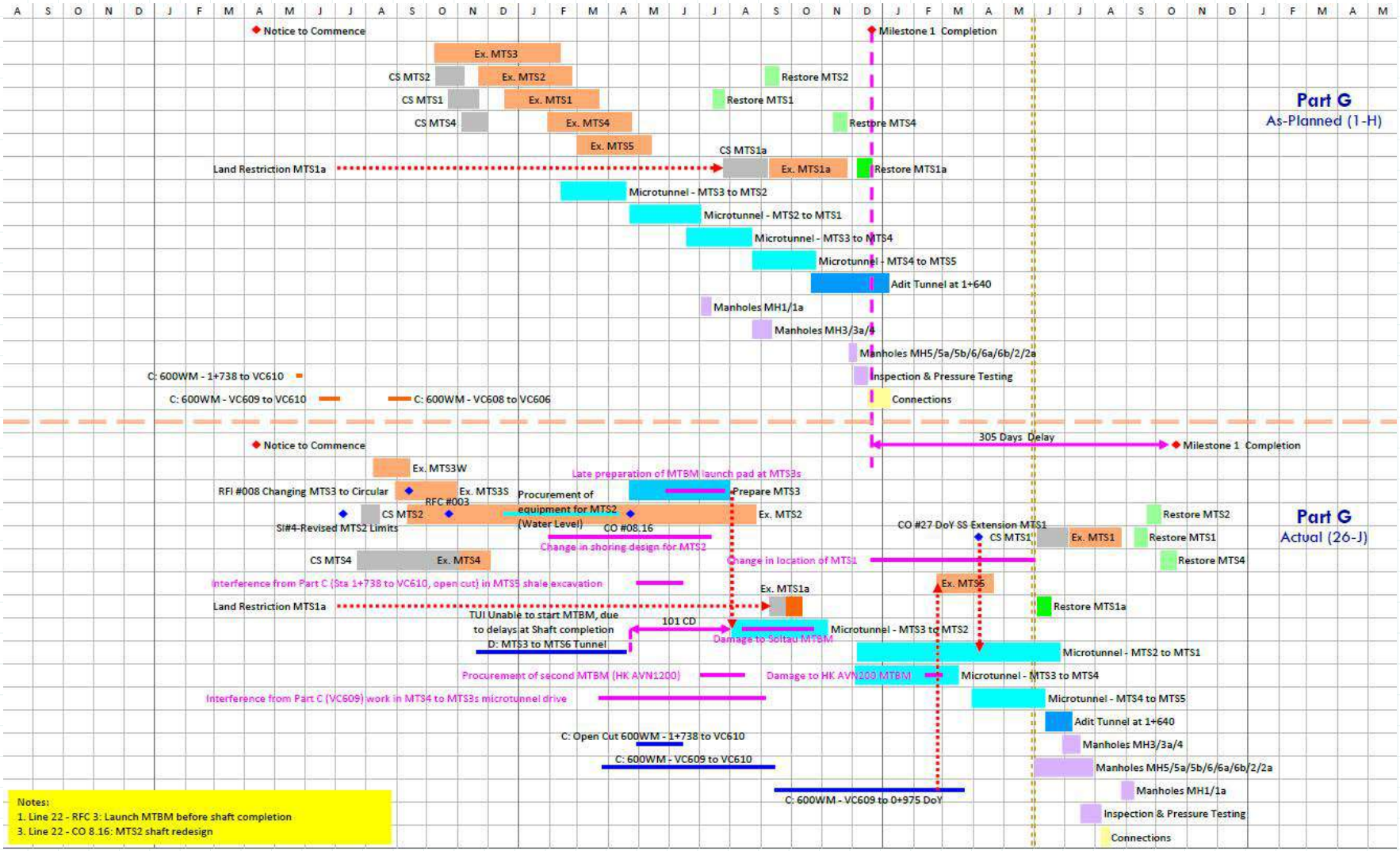

Project: Infrastructure - Trunk Sewer

Mandate: Scheduling, Forensic Scheduling, Variation Analysis, Extension of Time

Simple Useful Meaningful

Work Sample

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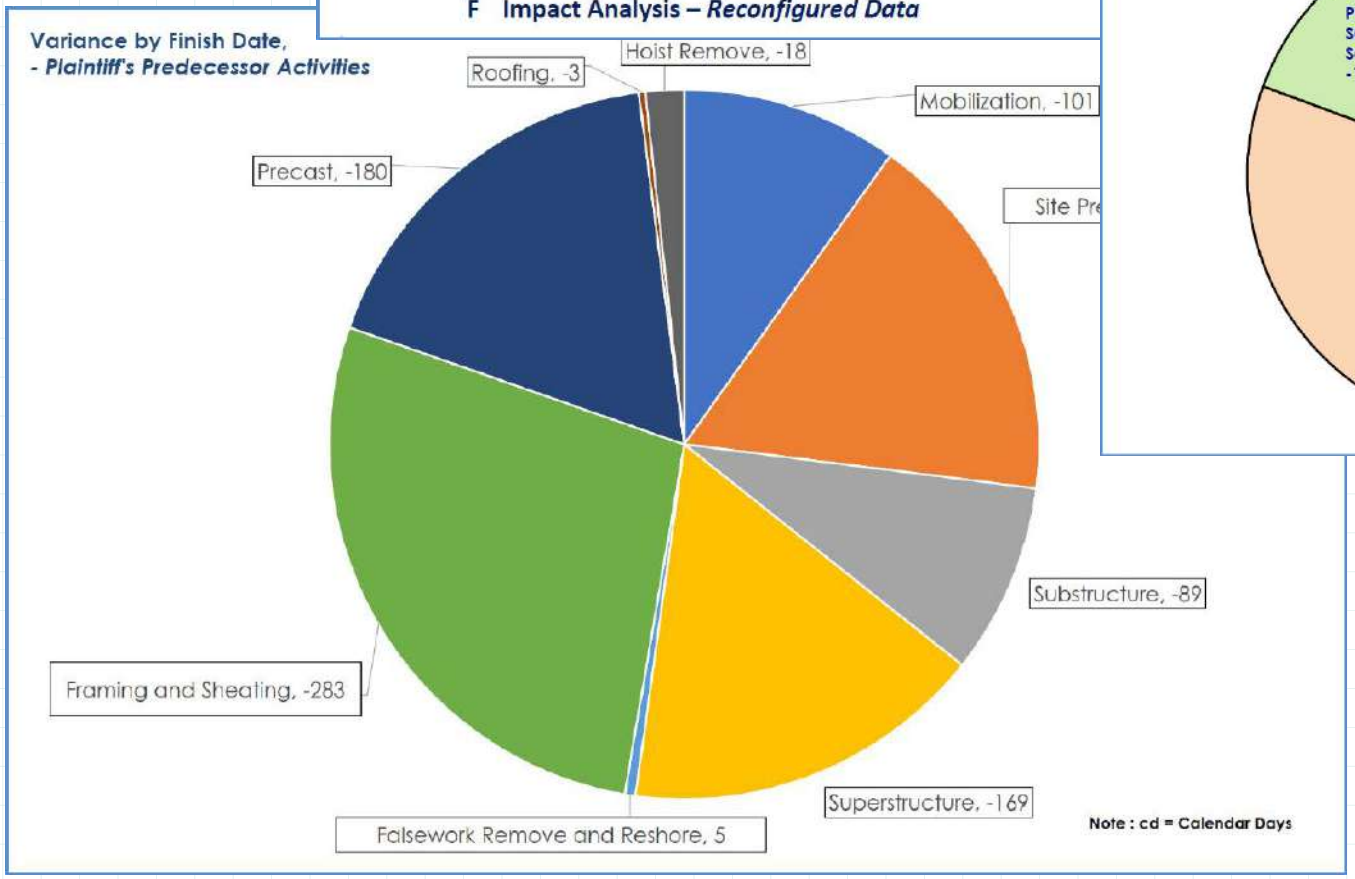
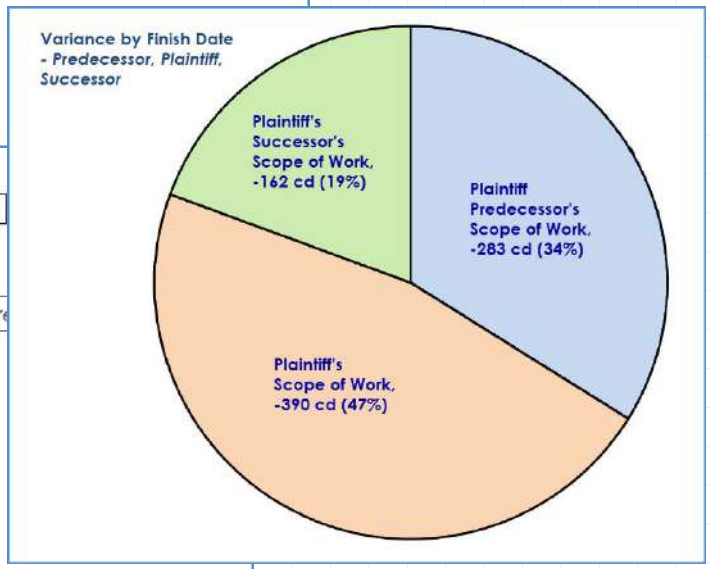
Schedule Assessment Report

The Schedule Assessment Report (SAR) is configured with the following tracks of enquiry:

- A **Schedule Integrity**
- B **Constructability, and Schedule Reliability**
- C **Variation Management**
- D **Process & Transaction Management**
- E **Impact Analysis – *As Received Data***
- F **Impact Analysis – *Reconfigured Data***





Project: Buildings - Institutional

Mandate: Scheduling, Forensic Scheduling, Variation Analysis, Extension of Time, Quantum

Work Sample

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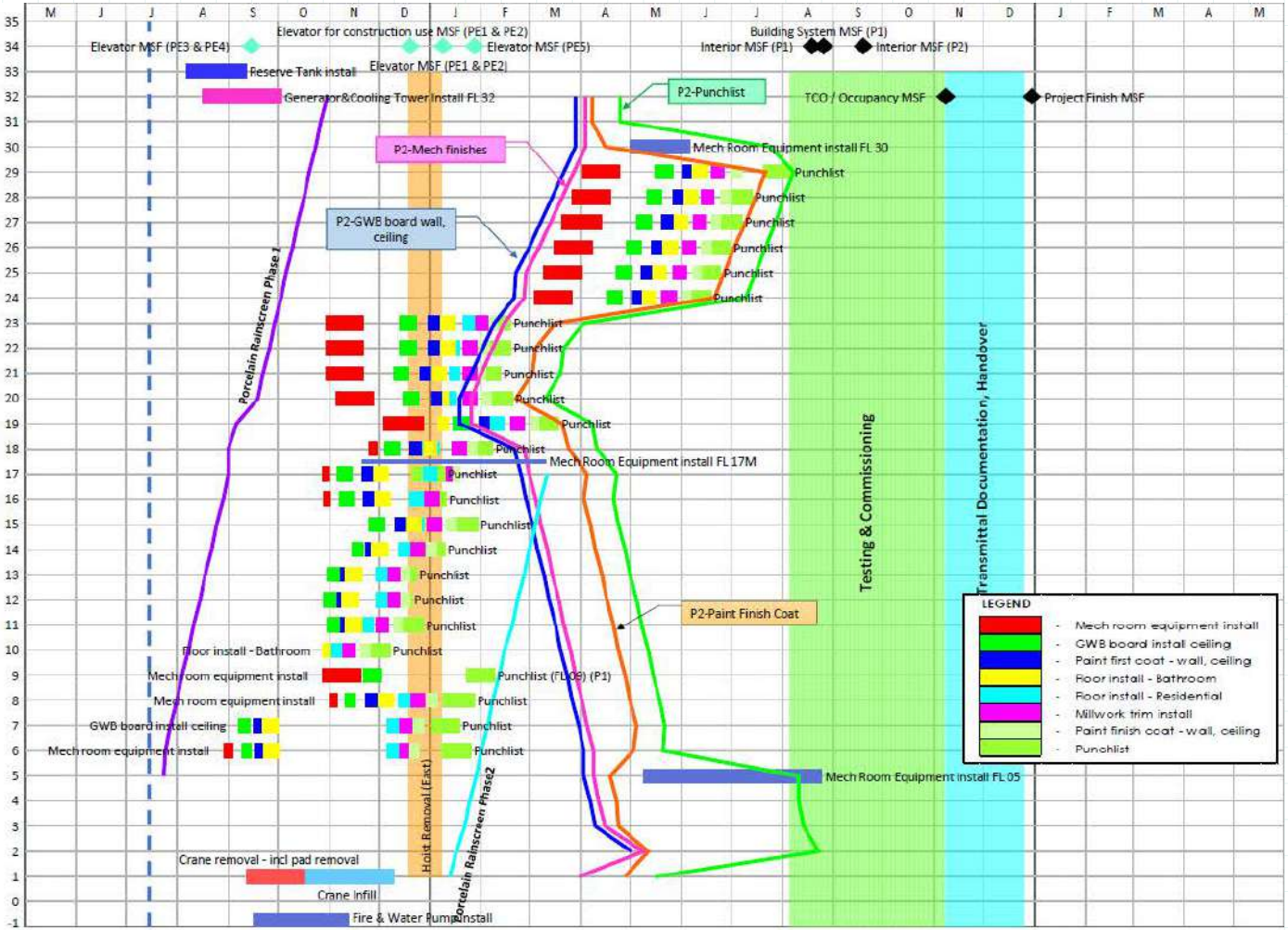

Project: Buildings - Mixed Use High Rise

Mandate: Scheduling, Forensic Scheduling, Variation Analysis, Extension of Time

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Toronto-York Spadina Subway Extension

World Trade Center Reconstruction, New York

Burnhamthorpe Water Project,
Mississauga, Ontario

LaGuardia Airport Modernization, New York

Second Ave Subway, New York

Interested in learning more about
Stoneboy ?

Please contact us at projects@stoneboy.co