



## **CONTRACTOR'S SCHEDULE TOOLKIT(CST)**

*DEVELOPED FOR PRIMAVERA P6*

*VERSION NO. 2.0 (ISSUED: SEPTEMBER 13, 2023)*

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**TOOLKIT FILES:**

*REPORT AND ATTACHMENTS (PDF)*

*PRIMAVERA P6V2.0 DESIGN-BID-BUILD SCHEDULE FILE (XER)*

*PRIMAVERA P6V2.0 DESIGN-BUILD SCHEDULE FILE (XER)*

*PRIMAVERA P6V2.0 LAYOUT FILES (PLF- 4 FILES)*

## 1.0 INTRODUCTION

In an effort to assist the construction contracting community provide consistent and accurate schedule submissions, MassDOT Highway Division has created this tool kit for the contractors and MassDOT construction staff to use collectively. This tool kit contains:

- Guidelines for schedule development, including
  - Massachusetts Holidays
  - Specific work restrictions
  - Possible Work Restrictions and/or Impacting Events to consider
- Schedule templates for Primavera or “shell projects” (.xer), including
  - Design-Bid-Build Delivery Method
  - Design-Build Delivery Method
- Discussion and Guidance regarding Time Entitlement Analysis (TEA) Requirements
- Discussion and Guidance regarding Schedule submission Narratives
- Discussion and Guidance regarding Short-term Construction Schedules
- Discussion and Guidance regarding Project Spending Report (PSR)
- Discussion and Guidance on Proposal Schedule submissions
- Discussion and Guidance on Recovery Schedule submissions
- Primavera Schedule layouts files (.plf)
- Example Primavera schedule reports
- Suggested Guideline: Assigning Baseline
- Suggested Guideline: Cost & Resource Loading

This guideline and tools were developed to aid the contractor in developing schedule submissions that conform to the specifications, as well as the needs of the MassDOT Highway Division. It remains the contractor’s responsibility to ensure that their schedule submittal correctly meets the requirements of specification subsection 8.02 and Section 722, this includes properly identifying the full scope of work and accurately reflecting the Contractor's planned sequence of work, and means and methods for managing the project in the performance of the work.

The specification subsection 8.02 and Section 722 contains further detailed information about the scheduling requirements.

### 1.1 BUSINESS NEED

Each project/construction contract team is expected to adhere to the accountability and transparency required for all public transportation agencies. One of the ways determined to deliver these goals is through schedule control and industry accepted practices, from start of the contract through construction and Project Close-out.

Each project/construction contract shall have a detailed construction schedule that will be developed and maintained through the life of the project. This will allow MassDOT to manage its resources, coordinate with stakeholders, provide regular reports to the public, and manage impacts to travelers and commerce

### 1.2 DISCLAIMER

One of the primary objectives of the Contractor Schedule Toolkit (CST) is to assist contractors when creating a baseline schedule submission, monthly progress reporting, as well as other schedule related submissions; primarily eliminating a need to create standardized coding, reporting, formatting and to assist in the general schedule set up only. The activity coding listed in this toolkit is based on current MassDOT Highway Division specifications and requirements.

The CST is being provided as a guideline and is available for use as a schedule development tool/resource. The CST may not reflect specific contract requirements. MassDOT makes no representations or warranties of any kind,

express or implied, about the accuracy, reliability, or completeness with respect to the CST or any of the information, services, or related content contained therein for any purpose.

MassDOT assumes no liability or responsibility for any damages (whether incurred directly or indirectly) or loss of any kind that might arise from the use of, misuse of, or the inability to use the information contained in the CST. MassDOT assumes no liability for improper or incorrect use of the CST. In choosing to use this CST, the Contractor expressly agrees that it will not submit any claims as a result of the information furnished herein, or use any of this information in the defense of any claim that the Contractor may choose to submit over the course of any MassDOT Contract.

MassDOT reserves the right to update, remove, or amend any of the information contained in this CST as needed without prior notice. For updates, please refer to the DOT website.

## 2.0 DESIGN-BID-BUILD SCHEDULE TEMPLATE COMPONENTS

### 2.1 SCHEDULE FILE

This schedule template was created in Primavera P6 release 20.0 and was designed in an effort to aid the contractor in generating a schedule that will meet the contract specifications for a project procured using the Design-Bid-Build delivery method. The template includes standard resource ids, cost accounts, project and activity codes, WBS organization, work calendars, and standard layouts.

In order to use the template the contractor will need to save the .xer file to the scheduler's local drive, open Primavera and import the file.

### 2.2 PRIMAVERA SCHEDULE SETTINGS

The template has been developed using the following schedule calculation settings.

**Scheduling Method = Retained Logic**

This is the normal method for predicting status with out-of-sequence progress.

**Schedule Method = Contiguous Activities**

This is also the standard setting in Primavera and is intended for use on non-interruptible activities.

**Total Float Calculations = Uses finish dates to calculate Total Float**

Standardizing this setting across all MassDOT Highway projects will provide consistency to reporting.

### 2.3 CALENDARS

Calendars allow you to specify the working days and working hours available in a day. It is also possible to define holidays, work shutdowns, work restrictions and specific working/non-working days of the project. You can configure an unlimited number of calendars according to different work models.

**Calendars Provided**

Work calendars should adhere to the contract specifications. The provided template has been developed with several calendars that comply with the specifications and correctly describe the work restrictions.

Please ensure that each activity in the schedule is assigned to a calendar that is appropriate for the work type.

**Calendars must be maintained at the Project Level.**

*Please note: In order for the calendars to be included in the attached Primavera .XER file, several activities were added as a placeholders (see below) and coded to a calendar. Once the calendars have been populated in the Contractor’s version of Primavera, the activities listed below can be deleted from the schedule.*

| <b>Placeholder</b> |   |
|--------------------|---|
| ContractNo_CAL04   | Cal04-7D/8Hr, No Hol (milestones)               |
| ContractNo_CAL03   | Cal03-7D/8Hr, 12 Hol                            |
| ContractNo_CAL08   | Cal08-7D/8Hr, 12 Hol - Mjr Rdwy                 |
| ContractNo_CAL16   | Cal16-Water Access 2, 5D/12Hol (Fish Migration) |
| ContractNo_CAL03A  | Cal03A-7d/8hr/No Holidays                       |
| ContractNo_CAL02   | Cal02-6D/8Hr, 12 Hol                            |
| ContractNo_CAL07   | Cal07-6D/8Hr, 12 Hol - Mjr Rdwy                 |
| ContractNo_CAL01   | Cal01-5D/8Hr, 12 Hol                            |
| ContractNo_C&RP    | Cost & Resource Placeholder                     |
| ContractNo_CAL06   | Cal06-5D/8Hr, 12 Hol - Mjr Rdwy                 |
| ContractNo_CAL10   | Cal10-Winter Ineff, 5D/12 Hol                   |
| ContractNo_CAL05   | Cal05-MBTA Night No Hol                         |
| ContractNo_CAL11   | Cal11-Winter Shut 5D/8Hr, 12Hol                 |
| ContractNo_CAL14   | Cal14-Planting, 5D/12Hol - Deciduous            |
| ContractNo_CAL12   | Cal12-Paving, 5D/12 Hol                         |
| ContractNo_CAL17   | Cal17 - Reclamation - 5d/12hol                  |
| ContractNo_CAL13   | Cal13-Planting, 5D/12Hol - Evergreen            |
| ContractNo_CAL15   | Cal15-Water Access1, 5D/12Hol (Low Flow)        |

**Holidays**

The calendars that indicate “12 Hol” in the title include the 12 Massachusetts legal holidays, populated through the year 2040. These holidays are:

| <b>Holiday</b>   |
|--|
| New Year’s Day – January First**                       |
| Martin Luther King, Jr. Day – Third Monday in January  |
| Washington’s Birthday – Third Monday in February       |
| Patriots’ Day – Third Monday in April                  |
| Memorial Day – Last Monday in May                      |
| Juneteenth Independence Day – June 19 <sup>th</sup> ** |
| Independence Day – July 4 <sup>th</sup> **             |
| Labor Day – First Monday in September                  |
| Columbus Day – Second Monday in October                |
| Veterans’ Day – November 11 <sup>th</sup> **           |
| Thanksgiving Day – fourth Thursday in November         |
| Christmas Day – December 25 <sup>th</sup> **           |

\*\* If the Holiday falls on a Sunday, it will be observed on the following Monday, however, if the Holiday falls on a Saturday, it will be observed on Saturday.

**Calendar Descriptions**

- Calendar 1, 2 & 3 are the typical 5, 6 or 7 daytime work schedules with holidays.
- Calendar 3A – 7d/8hr/No Holidays - is used for typical calendar-day dependent activities like Review and Approval of submissions by MassDOT.

- Calendar 4 is a 7d/24hr/No Holidays schedule that has no time restrictions, and is used for Milestones and Access Restraints, and also non-work time-dependent activities like curing of concrete.
- Calendar 5 is specifically for MBTA associated work at night
- Calendar Descriptions with “*Mjr Rdwy*” (Calendars 6, 7 & 8) include the additional extended holiday work restrictions on Major Roadways leading up to or following Holiday weekends such as the Wednesday prior to Thanksgiving.
- Calendar 10 – Winter Ineff, 5d/12 Hol, is a calendar that simulates an inefficiency during the period of December 15<sup>th</sup> through March 15<sup>th</sup>. This calendar should only be used on activities that could be performed during the winter months, however, may be impacted by cold or snow weather events.
- Calendar 11 – Winter Shut 5D/12Hol, is a calendar used for activities that cannot be performed between December 1 and March 15.
- Calendar 12 – Paving 5d/12Hol, is a calendar that restricts work between November 15<sup>th</sup> and March 30<sup>th</sup>, when asphalt plants are typically off-line.
- The CST includes two “Planting” calendars (Calendars 13 & 14), one for Deciduous plantings, and one for Evergreen plantings.
- Calendar 15 & 16 are water access calendars for in-water related activities. Calendar 15 provides water access from June 1<sup>st</sup> to Sep 30<sup>th</sup>, and Calendar 16 restricts water access from April 15<sup>th</sup> to July 15<sup>th</sup>, and September 15<sup>th</sup> to October 31<sup>st</sup> due to fish migration. These calendars may need to be adjusted per each contracts specified in-water access restrictions.
- Calendar 17 – Reclamation – 5d/12hol, is a calendar that restricts Reclaim work between October 15<sup>th</sup> and April 15<sup>th</sup>.

### **Shift Work**

If the Contractor intends to perform work outside the daytime work schedule (setup currently as 8am-4pm), Calendars should be modified and/or added to reflect the actual work periods, and any modifications or additions detailed in the Baseline Schedule Narrative, or subsequent Progress Update Narrative that the Calendar modifications occur.

## **2.4 MILESTONES**

### **Project Milestones**

The milestones listed below should adhere to the following MassDOT Highway naming convention. These milestones have been created within the template.

| Milestone Identifier | Milestone Activity Description  | Example   |
|----------------------|---|---|
| ContractNo_NTP       | Notice to Proceed   | NTP – Notice to Proceed   |
| ContractNo_AR01      | Access restraint for start of a specific scope of work or geographic area of work | AR01 – Access Restraint #1 (Aerial Utilities) or AR02 – Access Restraint #2 (In Bridge Utilities) |
| ContractNo_MS04      | Final Traffic Move  | MS04 – Final Traffic Move   |
| ContractNo_MS03      | Full Beneficial Use   | MS03 – Full Beneficial Use  |
| ContractNo_MS02      | Substantial Completion  | MS02 – Substantial Completion   |
| ContractNo_MS01      | Contractor Field Completion   | MS01 – Contractor Field Completion  |
| ContractNo_MSXX      | Other Interim Milestones as defined by Section 8.03                               | MSXX – Phase 2 Completion   |

There should be no successor activities to the Contractor Field Completion Milestone. If the contract provides contractual completion dates for each, then the activities should be assigned a “finish on or before” constraint of the contractual date.

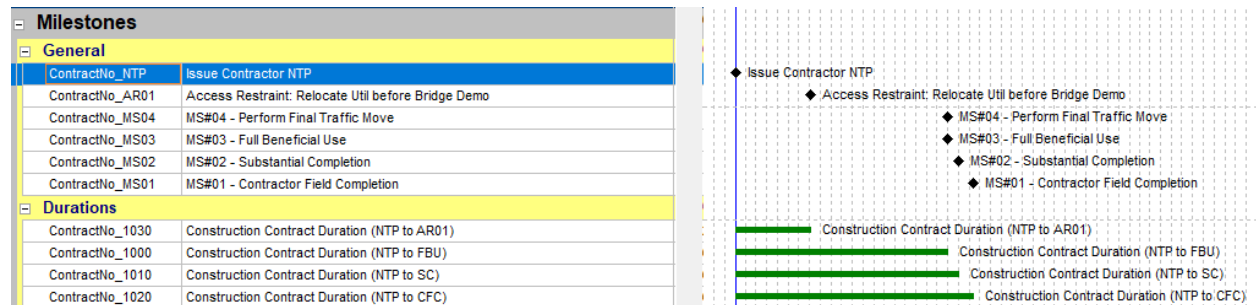
### Milestone Definitions

- **Full Beneficial Use** – All of the contract work has been completed and opened for full multi-modal transportation use, except for minor incomplete or unsatisfactory work items that do not materially impair or hinder the intended public use of the transportation facility. All lane taking has been completed, except for resolution of minor incomplete or unsatisfactory work items.
- **Substantial Completion** – A walkthrough of the entire contract work has been performed, and the work required by the contract has been completed except for work having a contract price of less than one per cent of the then adjusted total contract price. All Material Certifications have been received and approved. Within fifteen days after the effective date of the declaration of substantial completion, MassDOT shall send to the contractor by certified mail, return receipt requested, a complete list of all incomplete or unsatisfactory work items.
- **Contractor Field Completion** – All physical contract work is complete; including resolution of all minor incomplete or unsatisfactory work items. Contractor has fully de-mobilized from field operations.

## 2.5 ACTIVITY SETTINGS

### Contract Time Summary (Level of Effort)

These activities give managers a quick place to see if they are ahead or behind schedule. The “level of effort” activities should be logically tied to NTP (start-to-start) and Completion Milestones (finish-to-finish) and have a calendar-day calendar applied to it. The intent is to represent the entire duration to each Milestone. The activity ID and name should not be changed.



### Activity Codes

Listed in **Attachment A** are the suggested activity code fields. Each activity in the schedule shall be coded to each of activity codes.

**The activity codes must be maintained at the Project Level.**

Additional activity codes may be added and utilized at the Department's discretion to be discussed and defined during the Contractor's development of the Baseline schedule..

### WBS Structure

The WBS structure shown below was created within the project to allow for additional means to organize the project schedule. Additional WBS detail may be added and utilized at the contractor's discretion, however, the format should be adhered to as closely as possible.

| WBS Code                        | WBS Name  |
|---------------------------------|---|
| CSTv2.0                         | CSTv2.0   |
| CSTv2.0.Mi                      | Milestones  |
| CSTv2.0.Mi.Gene                 | General   |
| CSTv2.0.Mi.Dura                 | Durations   |
| CSTv2.0.Wid                     | Project Wide  |
| CSTv2.0.Pre                     | Preconstruction   |
| CSTv2.0.Pre.Prm                 | Permitting  |
| CSTv2.0.Pre.Pro                 | Submittals & Procurements                                     |
| CSTv2.0.Pre.Pro.8.01            | Subsection 8.01: Subcontractor Approvals                      |
| CSTv2.0.Pre.Pro.8.01.SitePro    | Licensed Site Professional                                    |
| CSTv2.0.Pre.Pro.8.01.StrucClean | Structure Cleaning Subcontractor                              |
| CSTv2.0.Pre.Pro.8.01.Elec       | Electrical Subcontractor                                      |
| CSTv2.0.Pre.Pro.8.01.BrdDemo    | Bridge Demolition Subcontractor                               |
| CSTv2.0.Pre.Pro.100             | Item 100: Schedule of Operations                              |
| CSTv2.0.Pre.Pro.114.1           | Item 114.1: Demolition of Superstructure                      |
| CSTv2.0.Pre.Pro.119.5           | Item 119.5: Construction Noise Control                        |
| CSTv2.0.Pre.Pro.149.2           | Item 149.2: Public Outreach                                   |
| CSTv2.0.Pre.Pro.180.01          | Item 180.01: Environmental Health & Safety Program            |
| CSTv2.0.Pre.Pro.220             | Items 220.x: Drainage Structures                              |
| CSTv2.0.Pre.Pro.701.47          | Item 701.47: Winter Concrete Plan                             |
| CSTv2.0.Pre.Pro.701.61          | Item 701.61: Contractor Quality Control Plan                  |
| CSTv2.0.Pre.Pro.756             | Item 756: Stormwater Water Protection Plan                    |
| CSTv2.0.Pre.Pro.850             | Items 850.x: Traffic Control for Construction and Maint Opera |
| CSTv2.0.Pre.Pro.991.1           | Item 991.1: Control of Water                                  |
| CSTv2.0.Pre.Pro.995.01          | Item 995.01: Bridge   |
| CSTv2.0.Pre.Pro.995.01.SEP      | Steel Erection Procedure                                      |
| CSTv2.0.Pre.Pro.995.01.901      | SubItem 901: 4000 PSI 1.5 in., 565 Cement Concrete            |
| CSTv2.0.Pre.Pro.995.01.960.01   | SubItem 960.01: Structural Steel - Coated Steel               |
| CSTv2.0.Pre.Pro.995.01.975.1    | SubItem 975.1: Metal Bridge Railing (3 Rail), Steel (Type S3- |
| CSTv2.0.Pre.Pro.995.01.PD       | Precast Decks   |
| CSTv2.0.Pre.Pro.TPD             | Temporary Pavement Design                                     |
| CSTv2.0.Uti                     | Utility   |
| CSTv2.0.Uti.URP                 | Utility Relocation & Coordination Plan                        |
| CSTv2.0.Uti.Not                 | Utility Notifications & Meetings                              |
| CSTv2.0.Uti.Rel                 | Utility Relocation  |
| CSTv2.0.Uti.Rel.1               | Utility 1 PUC Tasks   |
| CSTv2.0.Uti.Rel.2               | Utility 2 PUC Tasks   |
| CSTv2.0.Uti.Rel.3               | Utility 3 PUC Tasks   |
| CSTv2.0.Uti.Rel.4               | Utility 4 PUC Tasks   |
| CSTv2.0.Uti.SCONN               | Utility Service Connections                                   |
| CSTv2.0.Con                     | Construction  |
| CSTv2.0.Con.Gene                | General   |
| CSTv2.0.Con.Mobi                | Start-up  |
| CSTv2.0.Con.Ph1                 | Stage 1   |
| CSTv2.0.Con.Ph1.StpA            | Step A  |
| CSTv2.0.Con.Ph1.StpB            | Step B  |
| CSTv2.0.Con.Ph1.StpC            | Step C  |
| CSTv2.0.Con.Ph1.StpD            | Step D  |
| CSTv2.0.Con.Ph2                 | Stage 2   |
| CSTv2.0.Con.Ph2.StpA            | Step A  |
| CSTv2.0.Con.Ph2.StpB            | Step B  |
| CSTv2.0.Con.Ph2.StpC            | Step C  |
| CSTv2.0.Con.Ph2.StpD            | Step D  |
| CSTv2.0.Con.Ph3                 | Stage 3   |
| CSTv2.0.Con.Ph3.StpA            | Step A  |
| CSTv2.0.Con.Ph3.StpB            | Step B  |
| CSTv2.0.Con.Ph3.StpC            | Step C  |
| CSTv2.0.Con.Ph3.StpD            | Step D  |
| CSTv2.0.Con.Ph4                 | Stage 4   |
| CSTv2.0.Con.Ph4.StpA            | Step A  |
| CSTv2.0.Con.Ph4.StpB            | Step B  |
| CSTv2.0.Con.Ph4.StpC            | Step C  |
| CSTv2.0.Con.Ph4.StpD            | Step D  |
| CSTv2.0.Con.Ph5                 | Stage 5   |
| CSTv2.0.Con.Ph5.StpA            | Step A  |
| CSTv2.0.Con.Ph5.StpB            | Step B  |
| CSTv2.0.Con.Ph5.StpC            | Step C  |
| CSTv2.0.Con.Ph5.StpD            | Step D  |
| CSTv2.0.Clo                     | Close-Out   |
| CSTv2.0.Pla                     | Placeholder   |
| CSTv2.0.Deleted                 | Deleted Activities  |

### Removing activities from the schedule

Once the Baseline Schedule has been accepted, activities should not be deleted from the contract schedule. Though the planned work may require changes to the schedule activities over the course of the project, if an existing activity is no longer required, it should remain in the logic, unless it causes an out-of-sequence error. The activity should be moved to the “Deleted Activities” WBS node, actualized as being started and completed as of the NTP Date, and “Deleted” added to the end of the activity description.

### Method for determining Critical and Near-Critical Path(s)

Primavera P6 Advanced Tab Schedule Options provides ways to calculate multiple paths:

Calculate multiple paths using:

- **Total Float** - Choose this option to identify critical paths based on the total float of activity relationships. To calculate the most critical path, the module first determines which relationship has the most critical total float. Using this relationship as the starting point, the module determines which predecessor and successor activities have the most critical relationship total float, among all possible paths, until an activity is reached that does not have any relationships. The path that contains these activities is the most critical path.
- **Free Float** - Choose this option to define critical float paths based on longest path. The most critical path will be identical to the critical path that is derived when you choose to define critical activities as Longest Path in the General tab. In a multi-calendar project, the longest path is calculated by identifying the activities that have an early finish equal to the latest calculated early finish for the project and tracing all driving relationships for those activities back to the project start date. After the most critical path is identified, the module will calculate the remaining sub-critical paths.

## 2.6 COST & RESOURCE

If the schedule specification requires cost and resource loading, please refer to this section, as well as **Attachment C**.

Each activity shall be cost and resource loaded as described in the specification. For ease of use and consistency between projects, MassDOT Highway has developed the Cost and Resources dictionary provided in the Primavera .XER file. Shown below are the Resource IDs, where the preceding “XXXXXX” should be replaced with the MassDOT Contract Number. This is to avoid any comingling of resources between contracts within the MassDOT P6 resource library.

| Resource ID             | Resource Name    |
|-------------------------|------------------|
| Resource Type: Labor    |                  |
| XXXXXX_Laborer          | Laborer          |
| XXXXXX_Operator         | Operator         |
| XXXXXX_Steel Worker     | Steel Worker     |
| XXXXXX_Electrician      | Electrician      |
| XXXXXX_Foreman          | Foreman          |
| Resource Type: Nonlabor |                  |
| XXXXXX_Crane            | Crane Type X     |
| XXXXXX_Bulldozer        | Bulldozer Type X |
| XXXXXX_CST Cost         | Bid Item Value   |
| XXXXXX_Excavator        | Excavator Type X |
| XXXXXX_Paver            | Paver Type X     |
| XXXXXX_Grader           | Grader TypeX     |
| XXXXXX_Compactor        | Compactor Type X |

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#### COST:

In order to track the cost for each activity, each activity shall be assigned the appropriate bid items and dollar amount required to complete the work. This is done by assigning a Resource = 'CST Cost' and then a Cost Account equal to the appropriate Bid Item, then the budgeted cost can be assigned for each Bid Item.

Contractors are discouraged from using the “expenses” field.

The narrative should provide a summary of the cost loading with planned monthly and cumulative expenditures.

Please refer to Attachment E for a listing of the bid items that have been entered as Cost Accounts in Primavera.

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#### RESOURCE: LABOR

In order to track the labor resources for each activity, each activity shall be assigned the appropriate number of manhours required to complete the activity. This is done by assigning a Resource = 'CST Labor' and selecting the appropriate type of labor, then the budgeted units can be assigned.

The narrative should provide a summary of the planned resource loading, by category of labor (carpenter, operator, steel worker, pile driver, etc) and over time. Please include a summary of planned manpower usage on a monthly basis.

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#### RESOURCE: EQUIPMENT

In order to track the major equipment required for each activity, each activity shall be assigned the appropriate unit of equipment (crane, excavator, etc.) required to complete the activity. This is done by assigning a Resource = 'CST Equipment' and selecting the appropriate type of equipment, then the budgeted units can be assigned.

The narrative should provide a summary of the planned equipment usage loading, by category of equipment (ie: crane 1, excavator 3500, etc) and over time. Please include a summary of planned equipment usage on a monthly basis.

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#### NOTES:

- Cost & Resources are maintained at the Global Level in Primavera P6.
- Primavera settings:
  - The 'duration type' for each activity should be set to “Fixed Duration and Units” before associating any cost or resources to the activity. This is not applicable to milestones, as they cannot be set to “fixed duration and units”. The “duration type” field is found in: Activity View/General Tab.
  - Also, in the activity view, select Enterprise/Resource, then select the Resource item that is tracking Cost (in the Toolkit, the resource field for cost is “CST Cost”). Then select the 'Details' tab, then ensure the boxes for “Auto Compute Actuals” and “Calculate Costs from Units” are unchecked.
- Please refer to Attachment C for a suggested guideline of how to cost and resource load activities in *Primavera P6*.
- *Please note: In order for the cost accounts and resource codes to be included in the attached Primavera .XER file, one activity was added as a placeholder and coded to each cost account and resource code. Once the cost and resources codes have been populated in the Contractor's version of Primavera, this activity can be deleted.*

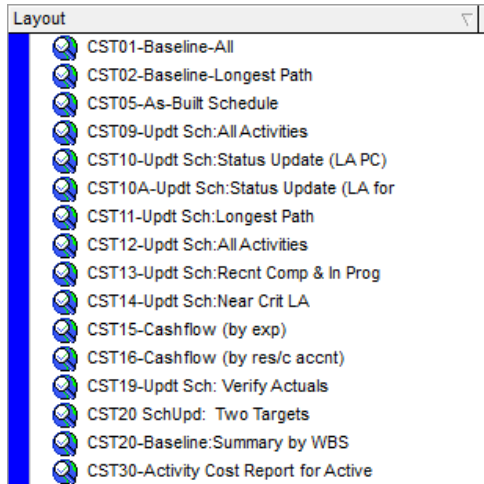
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## 2.7 SCHEDULE LAYOUTS

## Sample Layouts

Layouts have been prepared and are recommended for use with all schedule submissions. **The contractor is asked to prepare a PDF of each layout with each schedule submission, if applicable,** for use by the Resident Engineer.

They have been exported as .plx files and are available for import directly into Primavera.



Steps to import:

- Import the .XER file (Navigate to File/Import: as previously described in section 2.1 above)
- Select each Activity Codes and assign to “Make Global” (Navigate to Enterprise/Activity Codes)
- Import each Layout separately (Navigate to View/Layouts/Open/Import)
- Once imported, select the layout you wish to use (Navigate to View/Layouts/Open)

**Layouts must be maintained at the Project Level.**

## 2.8 NARRATIVE

As stated in Specification Section 722.62.A, each schedule submission shall be submitted with a detailed written narrative. The narrative is crucial to understanding the contractor’s approach, progress to date, planned outlook, assumptions, etc., and should be written in a way that an audience that is not familiar with the project will understand the progress to date, and the plan going forward.

Topics to be discussed in **Baseline Schedule** Narrative:

- Detailed discussion on the general sequence of work
- Detailed description of the project’s critical path
  - Identify/discuss near-critical activities (Total Float less than 20 days) with potential of changing critical path
- Grid of Milestones including Contractual and Forecast completion dates
- Discussion of Limitations of Operations, both Contractual and Contractor Means and Methods
  - What activities are planned during winter months, and which are not
  - Planned work schedules, including shifts, overtime, seasonal
  - Any environmental restrictions
  - Calendars used in the schedule should be detailed describing planned shift hours, non-work periods, holidays, etc.

- Utility access, restrictions, and enabling requirement as defined in the PUC form as well as any concerns anticipated by the contractor.
- Detailed discussion on cost loading, cashflow, and resource utilization (manpower and equipment) if applicable
- Discussion of what work scope will be performed by the Prime Contractor, and what work scope will be performed by Subcontractors.
- Identify/discuss long lead procurement items
- Identify/discuss any fabrication and procurement need dates to meet schedule
- Identify/discuss of any potential Value Engineering proposals

Topics to be discussed in the monthly **Progress Update Schedule** Narrative:

- Detailed discussion regarding current sequence of work and any changes to sequence of work
  - Identification & Detailed Explanation of any changes to Schedule Logic
- Detailed discussion on the project's current critical path and any changes to the critical path
  - Identify/discuss near-critical activities (Total Float less than 20 days) with potential of changing critical path
- Grid of Milestones including Contractual and Forecast completion dates and any variances from prior reporting
- Discussion of Limitations of Operations:
  - Changes to Contractor's Means and Methods
  - Changes to planned work schedule, including shifts, overtime, seasonal
  - Any new or changed environmental restrictions
  - Any changes to Calendars used in the schedule should be detailed
  - Any revisions to Utility access and restrictions
  - Critical Submissions and/or RFI Responses
- Detailed discussion on planned versus actual progress and variances from prior reporting
- Detail the work forecast to be accomplished during the upcoming schedule update period
- Discuss any Extra Work and/or Change Orders that have been incorporated into the schedule since the previous reporting period
- Describe any 'Notices of Delay' formally submitted during the schedule update period
  - Detailed description of affects on the project's critical path due to the actual/perceived delay
- Detail any Utility Notifications that were issued during the schedule update period
- Detail any Utility Notifications planned to be issued in the upcoming schedule update period
- Detail critical responses from MassDOT required, including need dates, to maintain the submitted schedule
- Discuss any considerations that may improve schedule outcome

## 3.0 DESIGN-BUILD SCHEDULE TEMPLATE COMPONENTS

### 3.1 SCHEDULE FILE

This schedule template was created in Primavera P6 release 20.0 and was designed in an effort to aid the Design-Builder in generating a schedule that will meet the contract specifications for a project procured using the Design-Build delivery method. The template includes standard resource ids, cost accounts, project and activity codes, WBS organization, work calendars, and standard layouts.

In order to use the template the contractor will need to save the .xer file to the scheduler's local drive, open Primavera and import the file.

## 3.2 PRIMAVERA SCHEDULE SETTINGS

The template has been developed using the following schedule calculation settings.

### **Scheduling Method = Retained Logic**

This is the normal method for predicting status with out-of-sequence progress.

### **Schedule Method = Contiguous Activities**

This is also the standard setting in Primavera and is intended for use on non-interruptible activities.

### **Total Float Calculations = Uses finish dates to calculate Total Float**

Standardizing this setting across all MassDOT Highway projects will provide consistency to reporting.

## 3.3 CALENDARS

### Calendars Provided

Work calendars should adhere to the contract specifications. The template has been developed with several calendars that comply with the specifications and correctly describe the work restrictions.

Please ensure that each activity in the schedule is assigned to a calendar that is appropriate for the work type.

### **Calendars must be maintained at the Project Level.**

*Please note: In order for the calendars to be included in the attached Primavera .XER file, several activities were added as a placeholders (see below) and coded to a calendar. Once the calendars have been populated in the Contractor's version of Primavera, the listed below activities can be delete from the schedule.*

| Placeholder       |   |
|-------------------|---|
| ContractNo_CAL04  | Cal04-7d/24hr, No Holidays (Milestones) |
| ContractNo_CAL03  | Cal03-7D/8Hr, 12 Hol                    |
| ContractNo_CAL08  | Cal08-7D/8Hr, 12 Hol - Mjr Rdwy         |
| ContractNo_CAL03A | Cal03A-7d/8hr/No Holidays               |
| ContractNo_CAL02  | Cal02-6D/8Hr, 12 Hol                    |
| ContractNo_CAL07  | Cal07-6D/8Hr, 12 Hol - Mjr Rdwy         |
| ContractNo_CAL01  | Cal01-5D/8Hr, 12 Hol                    |
| ContractNo_C&RP   | Cost & Resource Placeholder             |
| ContractNo_CAL06  | Cal06-5D/8Hr, 12 Hol - Mjr Rdwy         |
| ContractNo_CAL10  | Cal10-Winter Ineff, 5D/12 Hol           |
| ContractNo_CAL16  | Cal16-Water Access 2, 5D/12Hol          |
| ContractNo_CAL05  | Cal05-MBTA Night No Hol                 |
| ContractNo_CAL18  | Cal18-Weekend Shutdown                  |
| ContractNo_CAL19  | Cal19-Saturdays Only (Advertise)        |
| ContractNo_CAL11  | Cal11-Winter Shut 5D/8Hr, 12Hol         |
| ContractNo_CAL14  | Cal14-Planting, 5D/12Hol - Deciduous    |
| ContractNo_CAL12  | Cal12-Paving, 5D/12 Hol                 |
| ContractNo_CAL17  | Cal17 - Reclamation - 5d/12hol          |
| ContractNo_CAL13  | Cal13-Planting, 5D/12Hol - Evergreen    |
| ContractNo_CAL15  | Cal15-Water Access1, 5D/12Hol           |

### Holidays

The calendars that indicate “12 Hol” in the title include the 12 Massachusetts legal holidays, populated through the year 2040. These holidays are:

| Holiday  |
|--|
| New Year’s Day – January First**                       |
| Martin Luther King, Jr. Day – Third Monday in January  |
| Washington’s Birthday – Third Monday in February       |
| Patriots’ Day – Third Monday in April                  |
| Memorial Day – Last Monday in May                      |
| Juneteenth Independence Day – June 19 <sup>th</sup> ** |
| Independence Day – July 4 <sup>th</sup> **             |
| Labor Day – First Monday in September                  |
| Columbus Day – Second Monday in October                |
| Veterans’ Day – November 11 <sup>th</sup> **           |
| Thanksgiving Day – fourth Thursday in November         |
| Christmas Day – December 25 <sup>th</sup> **           |

\*\* If the Holiday falls on a Sunday, it will be observed on the following Monday, however, if the Holiday falls on a Saturday, it will be observed on Saturday.

### Calendar Descriptions

- Calendar 1, 2 & 3 are the typical 5, 6 or 7 daytime work schedules with holidays.
- Calendar 3A – 7d/8hr/No Holidays - is used for typical calendar-day dependent activities like Review and Approval of submissions by MassDOT.
- Calendar 4 is a 7d/24hr/No Holidays schedule that has no time restrictions, and is used for Milestones and Access Restraints, and non-work, time-dependent activities like curing of concrete.
- Calendar 5 is specifically for MBTA associated work at night
- Calendar Descriptions with “*Mjr Rdwy*” (Calendars 6, 7 & 8) include the additional extended holiday work restrictions on Major Roadways leading up to or following Holiday weekends such as the Wednesday prior to Thanksgiving.
- Calendar 10 – Winter Ineff, 5d/12 Hol, is a calendar that simulates an inefficiency during the period of December 15<sup>th</sup> through March 15<sup>th</sup>. This calendar should only be used on activities that could be performed during the winter months, however, may be impacted by cold or snow weather events.
- Calendar 11 – Winter Shut 5D/12Hol, is a calendar used for activities that cannot be performed between December 1 and March 15.
- Calendar 12 – Paving 5d/12Hol, is a calendar that restricts work between November 15<sup>th</sup> and March 30<sup>th</sup>, when asphalt plants are typically off-line.
- The CST includes two “Planting” calendars (Calendars 13 & 14), one for Deciduous plantings, and one for Evergreen plantings.
- Calendar 15 & 16 are water access calendars for in-water related activities. Calendar 15 provides water access from June 1<sup>st</sup> to Sep 30<sup>th</sup>, and Calendar 16 restricts water access from April 15<sup>th</sup> to July 15<sup>th</sup>, and September 15<sup>th</sup> to October 31<sup>st</sup> due to fish migration. These calendars may need to be adjusted per each contracts specified in-water access restrictions.
- Calendar 17 – Reclamation – 5d/12hol, is a calendar that restricts Reclaim work between October 15<sup>th</sup> and April 15<sup>th</sup>.
- Calendar 18 – Weekend Shutdown, is a calendar for work performed between Friday night and Monday morning
- Calendar 19 – Saturday Only – is a calendar for work restricted to Saturdays only, like Advertising of contracts.

### Shift Work

If the Design-Builder intends to perform work outside the daytime work schedule (setup currently as 8am-4pm), Calendars should be modified and/or added to reflect the actual work periods, and any modifications or additions

detailed in the Baseline Schedule Narrative, or subsequent Progress Update Narrative that the Calendar modifications occur.

### 3.4 MILESTONES

#### Project Milestones

The milestones listed below should adhere to the following MassDOT Highway naming convention. These milestones have been created within the template.

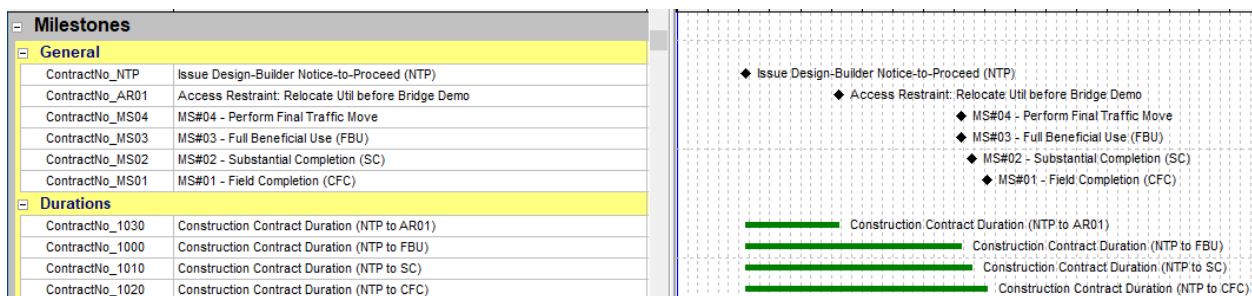
| Milestone Identifier | Milestone Activity Description  | Example   |
|----------------------|---|---|
| ContractNo_NTP       | Notice to Proceed   | NTP – Notice to Proceed   |
| ContractNo_AR01      | Access restraint for start of a specific scope of work or geographic area of work | AR01 – Access Restraint #1 (Aerial Utilities) or AR02 – Access Restraint #2 (In Bridge Utilities) |
| ContractNo_MS04      | Final Traffic Move  | MS04 – Final Traffic Move   |
| ContractNo_MS03      | Full Beneficial Use   | MS03 – Full Beneficial Use  |
| ContractNo_MS02      | Substantial Completion  | MS02 – Substantial Completion   |
| ContractNo_MS01      | Contractor Field Completion   | MS01 – Contractor Field Completion  |
| ContractNo_MSXX      | Other Interim Milestones as defined by Section 8.03                               | MSXX – Phase 2 Completion   |

There should be no successor activities to the Contractor Field Completion Milestone. If the contract provides contractual completion dates for each, then the activities should be assigned a “finish on or before” constraint of the contract date.

### 3.5 ACTIVITY SETTINGS

#### Contract Time Summary (Level of Effort)

These activities give managers a quick place to see if they are ahead or behind schedule. The “level of effort” activities should be logically tied to NTP and each Milestone and has a calendar day activity applied to it. The intent is to represent the entire project duration. The activity ID and name should not be changed.



#### Activity Codes

Listed in **Attachment A** are the suggested activity code fields. Each activity in the schedule shall be coded to each of the activity codes. The actual values within these Activity Codes can be revised based on the specific Contract requirements.

**The activity codes must be maintained at the Project Level.**

Additional activity code (or WBS coding) may be added and utilized at the Department's discretion to be discussed and defined during the Design-Builder's development of the Baseline schedule.

### WBS Structure

The WBS structure shown below was created within the project to allow for additional means to organize the project schedule. Additional WBS detail may be added and utilized at the contractor's discretion.

| WBS Code                 | WBS Name  |
|--------------------------|---|
| DB CST 1.0               | Design-Build CST v1.0                             |
| DB CST 1.0.DB CCTD 1.0.1 | Design-Build Contract Procurement                 |
| DB CST 1.0.1             | Milestones  |
| DB CST 1.0.1.1           | General   |
| DB CST 1.0.1.2           | Durations   |
| DB CST 1.0.2             | Submittals & Procurements                         |
| DB CST 1.0.2.1           | Early Release Design Packages                     |
| DB CST 1.0.2.1.3         | Geotechnical Report                               |
| DB CST 1.0.2.1.1         | Drilled Shafts                                    |
| DB CST 1.0.2.1.4         | Substructure Rebar                                |
| DB CST 1.0.2.1.2         | Structural Steel                                  |
| DB CST 1.0.2.1.9         | Bridge Bearings Design                            |
| DB CST 1.0.2.1.10        | Bridge Scuppers Design                            |
| DB CST 1.0.2.1.11        | Bridge Joint Design                               |
| DB CST 1.0.2.2           | Projectwide Submittals                            |
| DB CST 1.0.2.2.1         | Project Schedule                                  |
| DB CST 1.0.2.2.2         | Project Management Plan                           |
| DB CST 1.0.2.2.4         | Public Participation Plan                         |
| DB CST 1.0.2.2.5         | Health & Safety Plan                              |
| DB CST 1.0.2.3           | Environmental Submittals                          |
| DB CST 1.0.2.3.8         | Groundwater & Soil Management Plan                |
| DB CST 1.0.2.3.10        | Noise Control Plan                                |
| DB CST 1.0.2.3.11        | Dust Control Plan                                 |
| DB CST 1.0.2.3.13        | Invasive Species Management Plan                  |
| DB CST 1.0.2.3.12        | Dredge Material Plan                              |
| DB CST 1.0.2.4           | Design Submittals                                 |
| DB CST 1.0.2.4.1         | Formal Bridge Sketch Plan                         |
| DB CST 1.0.2.4.2         | First Structural Design - Bridge                  |
| DB CST 1.0.2.4.5         | Second Structural Design - Bridge                 |
| DB CST 1.0.2.4.4         | 75% Design - Highway                              |
| DB CST 1.0.2.4.3         | 100% Design - Highway                             |
| DB CST 1.0.2.4.7         | Final Design - Bridge & Highway                   |
| DB CST 1.0.2.5           | Early Action Construction Submittals              |
| DB CST 1.0.2.5.5         | RTTM  |
| DB CST 1.0.2.5.1         | Quality Management Plan (QMP)                     |
| DB CST 1.0.2.5.7         | Bathymetric Survey                                |
| DB CST 1.0.2.5.3         | Final Hydraulic & Scour Analysis Report           |
| DB CST 1.0.2.5.2         | Temporary Trestle Design                          |
| DB CST 1.0.2.5.6         | Support of Excavation Design                      |
| DB CST 1.0.2.5.4         | Existing Sewer Line Protection Plan               |
| DB CST 1.0.2.5.9         | Stormwater Management Plan                        |
| DB CST 1.0.2.5.12        | Geotechnical Instrumentation & Monitoring Plan    |
| DB CST 1.0.2.6           | Quality Control Plans                             |
| DB CST 1.0.2.6.1         | Drilled Shaft Quality Control Plan                |
| DB CST 1.0.2.6.2         | Deck Membrane Waterproofing                       |
| DB CST 1.0.2.6.3         | Earthwork   |
| DB CST 1.0.2.6.4         | HMA Pavement                                      |
| DB CST 1.0.2.6.5         | Portland Cement Concrete - Cast in Place Elements |
| DB CST 1.0.2.6.6         | Structural Steel Element                          |
| DB CST 1.0.2.7           | Construction Submittals                           |
| DB CST 1.0.2.7.2         | Traffic Management Plan (TTCP)                    |
| DB CST 1.0.2.7.11        | Existing Bridge Monitoring Plan                   |
| DB CST 1.0.2.7.12        | Dewatering Plan                                   |
| DB CST 1.0.2.7.6         | Demolition Plan - NB                              |
| DB CST 1.0.2.7.13        | Drilled Shaft Installation/Testing Procedure      |
| DB CST 1.0.2.7.5         | Abutment Pile Installation Plan                   |
| DB CST 1.0.2.7.7         | Erection Plan - Stage 1                           |
| DB CST 1.0.2.7.3         | Erection Plan - Stage 2                           |
| DB CST 1.0.2.7.4         | Erection Plan - Stage 3                           |
| DB CST 1.0.2.7.10        | Deck Placement Plan                               |
| DB CST 1.0.2.7.8         | Solid Pier Wall Construction Plan                 |
| DB CST 1.0.2.7.9         | Formwork Plan                                     |

| WBS Code                | WBS Name  |
|-------------------------|---|
| DB CST 1.0.2.7.1        | Subcontractor Approvals                             |
| DB CST 1.0.2.7.1.1      | Licensed Site Professional                          |
| DB CST 1.0.2.7.1.2      | Structure Cleaning Subcontractor                    |
| DB CST 1.0.2.7.1.3      | Electrical Subcontractor                            |
| DB CST 1.0.2.7.1.4      | Bridge Demolition Subcontractor                     |
| DB CST 1.0.2.8          | Shop Drawings and Procurements                      |
| DB CST 1.0.2.8.16       | Superstructure Rebar Design                         |
| DB CST 1.0.2.8.9        | Abutment Rebar                                      |
| DB CST 1.0.2.8.14       | Drilled Shaft Rebar                                 |
| DB CST 1.0.2.8.15       | Pier Substructure Rebar                             |
| DB CST 1.0.2.8.3        | Stay in Place Formwork                              |
| DB CST 1.0.2.8.7        | Solid Pier Wall (Pier Bases) Design & Shop Drawings |
| DB CST 1.0.2.8.5        | Drainage Structures                                 |
| DB CST 1.0.2.8.1        | TL-5 Pier Protection Barrier                        |
| DB CST 1.0.2.8.12       | Bridge Bearings                                     |
| DB CST 1.0.2.8.4        | Superstructure Rebar                                |
| DB CST 1.0.2.8.6        | Bridge Scuppers                                     |
| DB CST 1.0.2.8.8        | Bridge Joint  |
| DB CST 1.0.2.9          | Early Action Permit Plan Changes                    |
| DB CST 1.0.2.9.1        | National Marine Fishery Service (NMFS)              |
| DB CST 1.0.2.9.11       | Water Quality Certification Permit Plan Changes     |
| DB CST 1.0.2.9.12       | Army Corp of Engineers Permit Plan Changes          |
| DB CST 1.0.Uti          | Utility   |
| DB CST 1.0.Uti.URP      | Utility Relocation & Coordination Plan              |
| DB CST 1.0.Uti.Not      | Utility Notifications & Meetings                    |
| DB CST 1.0.Uti.Rel      | Utility Relocation                                  |
| DB CST 1.0.Uti.Rel.1    | Utility 1 PUC Tasks                                 |
| DB CST 1.0.Uti.Rel.2    | Utility 2 PUC Tasks                                 |
| DB CST 1.0.Uti.Rel.3    | Utility 3 PUC Tasks                                 |
| DB CST 1.0.Uti.Rel.4    | Utility 4 PUC Tasks                                 |
| DB CST 1.0.Uti.ServConn | Utility Service Connections                         |
| DB CST 1.0.Con          | Construction  |
| DB CST 1.0.Con.Gene     | General   |
| DB CST 1.0.Con.Mobi     | Start-up  |
| DB CST 1.0.Con.Ph1      | Stage 1   |
| DB CST 1.0.Con.Ph1.StpA | Step A  |
| DB CST 1.0.Con.Ph1.StpB | Step B  |
| DB CST 1.0.Con.Ph1.StpC | Step C  |
| DB CST 1.0.Con.Ph1.StpD | Step D  |
| DB CST 1.0.Con.Ph2      | Stage 2   |
| DB CST 1.0.Con.Ph2.StpA | Step A  |
| DB CST 1.0.Con.Ph2.StpB | Step B  |
| DB CST 1.0.Con.Ph2.StpC | Step C  |
| DB CST 1.0.Con.Ph2.StpD | Step D  |
| DB CST 1.0.Con.Ph3      | Stage 3   |
| DB CST 1.0.Con.Ph3.StpA | Step A  |
| DB CST 1.0.Con.Ph3.StpB | Step B  |
| DB CST 1.0.Con.Ph3.StpC | Step C  |
| DB CST 1.0.Con.Ph3.StpD | Step D  |
| DB CST 1.0.Con.Ph4      | Stage 4   |
| DB CST 1.0.Con.Ph4.StpA | Step A  |
| DB CST 1.0.Con.Ph4.StpB | Step B  |
| DB CST 1.0.Con.Ph4.StpC | Step C  |
| DB CST 1.0.Con.Ph4.StpD | Step D  |
| DB CST 1.0.Con.Ph5      | Stage 5   |
| DB CST 1.0.Con.Ph5.StpA | Step A  |
| DB CST 1.0.Con.Ph5.StpB | Step B  |
| DB CST 1.0.Con.Ph5.StpC | Step C  |
| DB CST 1.0.Con.Ph5.StpD | Step D  |
| DB CST 1.0.Clo          | Close-Out   |
| DB CST 1.0.Pla          | Placeholder   |
| DB CST 1.0.Deleted      | Deleted Activities                                  |

### Removing activities from the schedule

Once the Baseline Schedule has been accepted, activities should not be deleted from the contract schedule. Though the planned work may require changes to the schedule activities over the course of the project, if an existing activity is no longer required, it should remain in the logic, unless it causes an out-of-sequence error. The activity should be moved to the “Deleted Activities” WBS node, actualized as being started and completed as of the NTP Date, and “Deleted” added to the end of the activity description.

### Method for determining Critical and Near-Critical Path(s)

Primavera P6 Advanced Tab Schedule Options provides ways to calculate multiple paths:

Calculate multiple paths using:

- **Total Float** - Choose this option to identify critical paths based on the total float of activity relationships. To calculate the most critical path, the module first determines which relationship has the most critical total float. Using this relationship as the starting point, the module determines which predecessor and successor activities have the most critical relationship total float, among all possible paths, until an activity is reached that does not have any relationships. The path that contains these activities is the most critical path.
- **Free Float** - Choose this option to define critical float paths based on longest path. The most critical path will be identical to the critical path that is derived when you choose to define critical activities as Longest Path in the General tab. In a multi-calendar project, the longest path is calculated by identifying the activities that have an early finish equal to the latest calculated early finish for the project and tracing all driving relationships for those activities back to the project start date. After the most critical path is identified, the module will calculate the remaining sub-critical paths.

## 3.6 COST & RESOURCE

If the schedule specification requires cost and resource loading, please refer to this section, as well as **Attachment C**.

Each activity shall be cost and resource loaded as described in the specification. For ease of use and consistency between projects, MassDOT Highway has developed the Cost and Resources dictionary provided in the Primavera .XER file. Shown below are the Resource IDs, where the preceding “XXXXXX” should be replaced with the MassDOT Contract Number. This is to avoid any comingling of resources between contracts within the MassDOT P6 resource library.

| Resource ID             | Resource Name    |
|-------------------------|------------------|
| Resource Type: Labor    |                  |
| XXXXXX_Laborer          | Laborer          |
| XXXXXX_Operator         | Operator         |
| XXXXXX_Steel Worker     | Steel Worker     |
| XXXXXX_Electrician      | Electrician      |
| XXXXXX_Foreman          | Foreman          |
| Resource Type: Nonlabor |                  |
| XXXXXX_Crane            | Crane Type X     |
| XXXXXX_Bulldozer        | Bulldozer Type X |
| XXXXXX_CST Cost         | Bid Item Value   |
| XXXXXX_Excavator        | Excavator Type X |
| XXXXXX_Paver            | Paver Type X     |
| XXXXXX_Grader           | Grader TypeX     |
| XXXXXX_Compactor        | Compactor Type X |

---

#### COST:

In order to track the cost for each activity, each activity shall be assigned the appropriate bid items and dollar amount required to complete the work. This is done by assigning a Resource = 'CST Cost' and then a Cost Account equal to the appropriate Bid Item, then the budgeted cost can be assigned for each Bid Item.

Contractors are discouraged from using the “expenses” field.

The narrative should provide a summary of the cost loading with planned monthly and cumulative expenditures.

Please refer to **Attachment E** for a listing of the bid items that have been entered as Cost Accounts in Primavera.

---

#### RESOURCE: LABOR

In order to track the labor resources for each activity, each activity shall be assigned the appropriate number of manhours required to complete the activity. This is done by assigning a Resource = 'CST Labor' and selecting the appropriate type of labor, then the budgeted units can be assigned.

The narrative should provide a summary of the planned resource loading, by category of labor (carpenter, operator, steel worker, pile driver, etc) and over time. Please include a summary of planned manpower usage on a monthly basis.

---

#### RESOURCE: EQUIPMENT

In order to track the major equipment required for each activity, each activity shall be assigned the appropriate unit of equipment (crane, excavator, etc.) required to complete the activity. This is done by assigning a Resource = 'CST Equipment' and selecting the appropriate type of equipment, then the budgeted units can be assigned.

The narrative should provide a summary of the planned equipment usage loading, by category of equipment (ie: crane 1, excavator 3500, etc) and over time. Please include a summary of planned equipment usage on a monthly basis.

---

#### NOTES:

- Cost & Resources should be maintained at the Global Level.
- Primavera settings:
  - The 'duration type' for each activity should be set to “Fixed Duration and Units” before associating any cost or resources to the activity. This is not applicable to milestones, as they cannot be set to “fixed duration and units”. The “duration type” field is found in: Activity View/General Tab.
  - Also, in the activity view, select Enterprise/Resource, then select the Resource item that is tracking Cost (in the Toolkit, the resource field for cost is “CST Cost”). Then select the 'Details' tab, then ensure the boxes for “Auto Compute Actuals” and “Calculate Costs from Units” are unchecked.
- Please refer to **Attachment C** for a suggested guideline of how to cost and resource load activities in *Primavera P6*.
- *Please note: In order for the cost accounts and resource codes to be included in the attached Primavera .XER file, one activity was added as a placeholder and coded to each cost account and resource code. Once the cost and resources codes have been populated in the Contractor's version of Primavera, this activity can be deleted.*

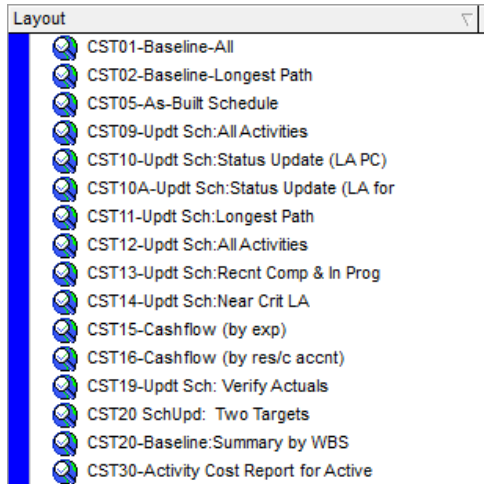
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### 3.7 SCHEDULE LAYOUTS

## Sample Layouts

Layouts have been prepared and are recommended for use with all schedule submissions. **The contractor is asked to prepare a PDF of each layout with each schedule submission, if applicable,** for use by the Resident Engineer.

They have been exported as .plx files and are available for import directly into Primavera.



Steps to import:

- Import the .XER file (Navigate to File/Import: as previously described in section 2.1 above)
- Select each Activity Codes and assign to “Make Global” (Navigate to Enterprise/Activity Codes)
- Import each Layout separately (Navigate to View/Layouts/Open/Import)
- Once imported, select the layout you wish to use (Navigate to View/Layouts/Open)

**Layouts must be maintained at the Project Level.**

## 3.8 NARRATIVE

As stated in Specification Section 722.62.A, each schedule submission shall be submitted with a detailed written narrative. The narrative is crucial to understanding the contractor’s approach, progress to date, planned outlook, assumptions, etc., and should be written in a way that an audience that is not familiar with the project will understand the progress to date, and the plan going forward.

Topics to be discussed in **Baseline Schedule** Narrative:

- Detailed discussion on Early Release Packages
- Detailed discussion on Permitting and/or existing Permit Amendments
- Detail discussion on early action Construction Submittals
- Detailed discussion on the general sequence of work
- Detailed description of the project’s critical path
  - Identify/discuss near-critical activities (Total Float less than 20 days) with potential of changing critical path
- Grid of Milestones including Contractual and Forecast completion dates
- Detailed discussion any schedule risks relating to third-parties
- Discussion of Limitations of Operations, both Contractual and Design-Builder Means and Methods
  - What activities are planned during winter months, and which are not
  - Planned work schedules, including shifts, overtime, seasonal

- Any environmental restrictions and/or conditions
  - Any required Permitting
  - Any ConCom Order of Conditions affecting schedule
- Calendars used in the schedule should be detailed describing planned shift hours, non-work periods, holidays, etc.
- Utility access, restrictions, and enabling requirement as defined in the PUC form as well as any concerns anticipated by the contractor.
- Detailed discussion on cost loading, cashflow, and resource utilization (manpower and equipment) if applicable
- Discussion of what work scope will be performed by the Design-Builder, and what work scope will be performed by Subcontractors.
- Identify/discuss long lead procurement items
- Identify/discuss any fabrication and procurement need dates to meet schedule
- Identify/discuss any potential ATC change proposals

Topics to be discussed in the monthly **Progress Update Schedule** Narrative:

- Detailed discussion regarding current sequence of work and any changes to sequence of work
  - Identification & Detailed Explanation of any changes to Schedule Logic
- Detailed discussion on the project's current critical path and any changes to the critical path
  - Identify/discuss near-critical activities (Total Float less than 20 days) with potential of changing critical path
- Grid of Milestones including Contractual and Forecast completion dates and any variances from prior reporting
- Discussion of Limitations of Operations:
  - Changes to Design-Builder's Means and Methods
  - Changes to planned work schedule, including shifts, overtime, seasonal
  - Any new or changed environmental restrictions
  - Any changes to Calendars used in the schedule should be detailed
  - Any revisions to Utility access and restrictions
  - Critical Submissions and/or RFI Responses
- Include a fabrication schedule for all major project components, especially detailing any on the critical path and near-critical path(s) (Total Float less than 20 days)
- Detailed discussion on planned versus actual progress and variances from prior reporting
- Detail the work forecast to be accomplished during the upcoming schedule update period
- Discuss any Extra Work and/or Change Orders that have been incorporated into the schedule since the previous reporting period
- Discuss any Non-Conformance (NCR) or Deficiency Reports (DR) that were issued during the Update period and mitigation efforts going forward
- Describe any 'Notices of Delay' formally submitted during the schedule update period
  - Detailed description of effects on the project's critical path due to the actual/perceived delay
- Detail any Utility Notifications that were issued during the schedule update period
- Detail any Utility Notifications planned to be issued in the upcoming schedule update period
- Detail critical responses from MassDOT required, including need dates, to maintain the submitted schedule
- Discuss any considerations that may improve schedule outcome

## 4.0 TIME ENTITLEMENT ANALYSIS (TEA) GUIDANCE

### 4.1 TIME ENTITLEMENT ANALYSIS INTRODUCTION

A TEA shall be submitted to the Engineer before any Time Extension is granted to the Contractor. Time Extensions will not be granted unless the TEA accurately reflects an evaluation of all past delays and the actual events that occurred that impacted the Critical Path. The TEA must also demonstrate a plan for the efficient completion of all of the remaining work through an optimized CPM Schedule. The analysis shall include all delays, including Contractor-caused delays (including non-conforming work, resource shortfalls, late deliveries, etc), third-party-caused delays, and all MassDOT-caused delays, and shall be subdivided into timeframes and causes of delays. Contemporaneous documentation needs to be provided with the TEA.

TEAs shall be submitted:

1. immediately following any Notice of Delay,
2. as part of any Extra Work Order that may impact Contract Time,
3. when any Progress Schedule Update shows delays (that the Contractor feels is Excusable),
4. with a request for a Time Extension,
5. within fourteen (14) Calendar Days after a request for a TEA by the Engineer for any other reason

Once prompted by any of the above, the Contractor shall submit the TEA no later than 14 days after the event.

## 4.2 DETERMINATION OF DELAY

The first thing the Contractor must determine is if the cause of the delay has merit. As outlined in the contract documents, in order for MassDOT to grant a time extension, the cause of the delay must be the result of Extra Work, Department Caused Delays, Increased Quantities, Delays Caused by Public Service Corporations (other Third-Parties). Time extensions will not be granted for delays caused by the contractor, the contractor's subs, for any issue that was with the control of the contractor, and/or for delays due to contractor negligence.

For further definition of these causes refer to contract specification.

Should the contractor determine the delay is the result of one of these causes then proper notification is required.

## 4.3 NOTIFICATIONS AND SUBMITTALS

The Contractor shall notify MassDOT by letter, within three (3) Calendar Days of the start of any delays to the Critical Path that are caused by any of the above issues. If the delay persists, a request for a time extension must be submitted within 15 calendar days after the start of the delay.

NOTE: no time extension will be considered if this request is not filed within the stated time. A documented preliminary TEA supporting the request for a time extension shall be submitted to MassDOT no later than 30 calendar days after the start of the delay. A documented final TEA shall be submitted to MassDOT no later than 15 calendar days after the end of the delay.

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### PRELIMINARY TIME ENTITLEMENT ANALYSIS SUBMITTAL

When preparing the preliminary time entitlement analysis (PTEA) submittal the Contractor should develop a TEA as described within this document, estimating the duration for the impact event. The package should include the following:

- A copy of the delay notification letter
- The request notice for a time extension
- A schedule fragnet as demonstrated above
- A descriptive narrative
- The P6 file (xer format) used in the delay analysis
- PDF printout showing the critical path before the impact and again after the impact
- PDF showing all activities after the impact

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### FINAL TIME ENTITLEMENT ANALYSIS SUBMITTAL

When preparing the final time entitlement analysis (FTEA) submittal the Contractor should develop a TEA as described within this document using the actual duration for the impact event. The package should include the following:

- A schedule fragment as demonstrated above
- A descriptive narrative
- The P6 file (xer format) used in the delay analysis
- PDF printout showing the critical path before the impact and again after the impact
- PDF showing all activities after the impact

#### 4.4 TIME EXTENSION DETERMINATION

The following requirements are considered in the evaluation of the TEA (reference Specification Section 8.10):

- No time extension will be granted for any delay or any suspension of the Work due to the fault of the Contractor.
- No time extension will be granted if the request for a time extension is based on any claim that the originally established contract duration was inadequate.
- Time extensions will only be granted for delays, including concurrent delays, to activities affecting contract milestones.
- Any work restriction related to weather, permit conditions, community accommodation, traffic or any other restriction specified in the Contract or reasonably expected for the particular locality and for the particular season of the year in which the Work is being prosecuted must be considered in the analysis of each individual time extension and shall not be considered, in itself, justification for an extension of time.
- The TEA must be submitted by the Contractor and cannot be submitted by a Subcontractor.

#### 4.5 TIME ENTITLEMENT ANALYSIS METHODS

Renowned experts in the field of delay analysis, AACE® International, has published a recommended practice 29R-03 Forensic Schedule Analysis which provides basic technical principles and guidelines for applying numerous methods of preparing a Time Entitlement Analysis. The publication breaks down the methods into four families:

- As-Planned vs As-Built
- Contemporaneous Period Analysis
- Time Impact Analysis
- Collapsed As-Built Analysis

Within each of these families are listed several methods that can be considered depending on the information available and the outcome desired. Most are considered retrospectively to quantify as-built delay caused by impact activities. MassDOT's preferred method is a prospective approach which forecasts future impacts. Therefore, a Time Impact Analysis method for determining delay is recommended.

Progress schedules cannot be used to determine a time extension, as they include all impacts to the project and not just the event in question.

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#### THE TIME IMPACT ANALYSIS METHOD

A Time Impact Analysis is a forward looking, prospective schedule analysis technique that adds a modeled event or events to an unimpacted schedule to determine the potential impact of that event or events to the longest path and therefore project completion. TIA is a forecast designed to facilitate a timely contract adjustment prior to the actual work being completely performed.

The TIA procedure is performed while a project is on-going, and thus has a 'forward-looking' or a "prospective analysis" perspective in near-real time context. The TIA is typically associated with the modeling of the effects of a single change or delay event. It requires a Critical Path Method (CPM) schedule that can show the pure CPM calculation differences between a schedule that does not include the impacting event and one that does include an

activity modeling the impacting event. The difference for project completion, between the non-impacted schedule and that of the schedule with the impact, is considered to be the impact of the event for time extension considerations.

TIA assumes that the most recently accepted schedule update, just prior to the actual impacting event, correctly displays the project status and logical sequence of work involved on the project at the time of the impacting event. It also assumes that the actual event will not result in a change in the project work plan. In effect, a TIA assumes that the CPM schedule, in-effect at the time of the event, is accurate and will not change (other than the change brought about by the delay.)

Steps for creating a Time Entitlement Analysis using the TIA Method:

**STEP 1:** Select the appropriate accepted schedule update to impact. The appropriate schedule should be the last MassDOT accepted schedule statused and updated prior to the time of the change or delay. The schedule to be impacted is called, “the unimpacted schedule.” The status date should not be altered and shall be the same as the status date of the impacted schedule. Constraints not required by contract should not be included in the analysis. If MassDOT requested corrections to the accepted schedule, they should be addressed before using it for the TIA.

In the example below, with a data date of October 1st, the critical path commences with Mobilization and proceeds through Bridge construction, Paving and Markings with Substantial Completion on June 9th, 2023. The total float is zero and in support of the contract date.

| Activity ID | Activity Name          | Original | Start     | Finish    | Total Float | 2023 |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-------------|------------------------|----------|-----------|-----------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
|             |                        |          |           |           |             | Sep  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |  |  |  |  |
| A1000       | Mobilize to Site       | 30       | 03-Oct-22 | 11-Nov-22 | 0           |      | ■   |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1010       | Construct Bridge A1    | 45       | 14-Nov-22 | 13-Jan-23 | 0           |      |     | ■   |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1020       | Construct Bridge A2    | 30       | 16-Jan-23 | 24-Feb-23 | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1030       | Construct Bridge A3    | 50       | 27-Feb-23 | 05-May-23 | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1040       | Pave Bridges           | 20       | 08-May-23 | 02-Jun-23 | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1050       | Install Markings       | 5        | 05-Jun-23 | 09-Jun-23 | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1060       | Substantial Completion | 0        |           | 09-Jun-23 | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |

**STEP 2:** Insert the impact activities and logic into a copy of the unimpacted schedule. Make the accepted activity adjustments to the existing activities as necessary. Set the duration of the delay event activities to zero and recalculate the CPM. At this point in the analysis, all computed and actual dates in the impacted schedule should match that from the unimpacted schedule. If all dates do not match, then correct the fragnet insertion until they do match.

As the example below shows a new activity has been added to the schedule that represents the added scope to Bridge A1. It is logically tied to occur between the construction of Bridge A1 and Bridge A2. It is the same schedule in step 1 with no impact. The duration of the impact is initially set to zero to verify there is no change to the Substantial Completion date of June 9th, 2023.

| Activity ID | Activity Name                | Original | Start     | Finish     | Total Float | 2023 |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-------------|------------------------------|----------|-----------|------------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
|             |                              |          |           |            |             | Sep  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |  |  |  |  |
| A1000       | Mobilize to Site             | 30       | 03-Oct-22 | 11-Nov-22  | 0           |      | ■   |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1010       | Construct Bridge A1          | 45       | 14-Nov-22 | 13-Jan-23  | 0           |      |     | ■   |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1020       | Construct Bridge A2          | 30       | 16-Jan-23 | 24-Feb-23  | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| DELAY       | Scope Increase for Bridge A1 | 0        | 16-Jan-23 | 16-Jan-23  | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1030       | Construct Bridge A3          | 50       | 27-Feb-23 | 05-May-23  | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1040       | Pave Bridges                 | 20       | 08-May-23 | 02-Jun-23  | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1050       | Install Markings             | 5        | 05-Jun-23 | 09-Jun-23  | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
| A1060       | Substantial Completion       | 0        |           | 09-Jun-23* | 0           |      |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |

**STEP 3:** The Contract specifications requires that the Contractor mitigate the effects of any delay to the extent practicable without cost to the Contractor or Owner. The Contractor may elect to revise the duration status of activities in the schedule to the remaining duration status to reflect the mitigation process. This revision of the status to the impacted schedule will reflect the resultant effects of mitigation of the project. Whatever changes made to the schedule to satisfy the mitigation requirements, should be fully documented and included as part of the TEA submittal.

**STEP 4:** Insert the delay event durations into the added event activities and recompute the CPM.

In the example below the impact for the added scope to Bridge A1 is estimated at 30 days. The duration for this task has been changed from zero to 30 days. The schedule was recalculated with the Substantial Completion date being extended to July 21<sup>st</sup>, 2023, an increase of 42 days.

| Activity ID | Activity Name                | Original | Start     | Finish     | Total Float | 2023 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-------------|------------------------------|----------|-----------|------------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|             |                              |          |           |            |             | Sep  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov |  |  |
| A1000       | Mobilize to Site             | 30       | 03-Oct-22 | 11-Nov-22  | -30         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| A1010       | Construct Bridge A1          | 45       | 14-Nov-22 | 13-Jan-23  | -30         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| DELAY       | Scope Increase for Bridge A1 | 30       | 16-Jan-23 | 24-Feb-23  | -30         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| A1020       | Construct Bridge A2          | 30       | 27-Feb-23 | 07-Apr-23  | -30         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| A1030       | Construct Bridge A3          | 50       | 10-Apr-23 | 16-Jun-23  | -30         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| A1040       | Pave Bridges                 | 20       | 19-Jun-23 | 14-Jul-23  | -30         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| A1050       | Install Markings             | 5        | 17-Jul-23 | 21-Jul-23  | -30         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| A1060       | Substantial Completion       | 0        |           | 21-Jul-23* | -42         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |

**STEP 5:** Identify the activity indicating project completion milestone and note any change in the project completion date in calendar days.

In the example shown above the Substantial Completion milestone date was extended 42 days as a result of the added scope for Bridge A1. This method eliminates all other impacts to the schedule from progress or logic adjustments and solely represents the impact from the added scope.

**STEP 6:** Eliminate delay dates from the TEA request that have previously been awarded. Every date determined to be a delay date will be excusable to contractual milestone completion, providing that this date has not already been awarded as a delay date due to a prior TEA. Should the day already be designated as an excusable delay date, then this day will be considered concurrent in terms of a previous delay. In no event will a single date be granted an additional excusable day if it has previously been granted one for any other reason. In other words, no single date may be assigned more than one day of excusable delay.

#### 4.6 TIME ENTITLEMENT ANALYSIS NARRATIVE

As stated in the Contract Specifications, each schedule submission (including TEAs) shall be submitted with a detailed written narrative. The narrative is crucial to understanding the contractor’s approach, assumptions, previously provided documents and overall conclusions. The narrative should include the following details:

- The contractor should explain the overall delay issue and the impact to the contract dates including why it is excusable time per the contract requirements
- State when the delay occurred and when the “Notice of Delay” was submitted (attach a copy)
- State when the Preliminary TEA was submitted, if it was within the allowable time and the requested number of days
- State when the Final TEA was submitted and if it was within the allowable time (applicable only to the Final TEA submission)
- State the Schedule of Record revision and data date being used as the basis for this Time Entitlement Analysis
- Describe in detail the steps used for the delay analysis including added/deleted activities, logic adjustments, duration changes, description changes or calendar revisions
- Discuss if the impact results in overtime hours, additional shifts or additional resources
- Discuss the changes to the Project Spending Report (PSR) due to the actual or perceived impacting changed condition
- State if any no cost mitigation measures have been implemented or are being considered

### 5.0 RECOVERY SCHEDULE GUIDANCE

A Recovery Schedule is required in instances when there are delays to the Critical Path(s) that are Non-Excusable.

The Contractor shall promptly report to the Engineer all schedule delays during the prosecution of the Work. This requirement is critical to the Department’s ability to make informed decisions regarding Contract Time and costs.

A Recovery Schedule is required to be submitted to the Engineer when any one of the following occur:

- the prosecution of the Work is delayed such that the forecasted date to achieve any Contract Milestone is beyond (later) than the Contractual Milestone date and, in the review/opinion of the Engineer, those delays to the Critical Path are the result of Non-Excusable delays (that do not entitle Contractor/Design-Builder to a time extension), and/or
- the Engineer has provided written direction to provide a Recovery Schedule, and/or
- the Contractor has yet to provide a Notice of Delay for the specific activities that are delayed (and in accordance with 722.64).

When required, the Recovery Schedule is to be submitted no later than 14 Calendar Days after the applicable Contract Progress Schedule submission. The Recovery Schedule shall:

(a) regain lost schedule progress to achieve the applicable Contract Milestone or

(b) mitigate delays in achieving the applicable Contract Milestone if the Contractor/Design-Builder can demonstrate to MassDOT's satisfaction that the Contractor/Design-Builder cannot achieve the Milestone by the applicable contractual Milestone date.

The Recovery Schedule shall be submitted for review and acceptance for compliance with this Section 722.64.C

The Recovery Schedule narrative should discuss in detail:

- All changes to and/or additional workforce, overtime and/or shift work
- Any resequencing of scope
- Changes to the project's Critical Path(es)
- Additional equipment resources required
- Any additional or changed lane closure or roadway closures required
- Any accelerated need dates by MassDOT or Third-Parties
- Any changes to the project Calendars
- Any changed, added or deleted activities
- A high ratio of remaining activities on the Critical Path(es) to all remaining activities would indicate a high risk to schedule outcome. If a high ratio exists, the Contractor should address this in the Narrative and how they intend to ensure these activities will meet their scheduled completions.

If the schedule requires cost & resource loading, the Recovery Schedule should highlight the changes to the baseline cash flow and resources. For all Type A and B Schedules, all Recovery Schedules shall be cost and resource- loaded to help to quickly validate and monitor the duration of the Work to be performed.

The Contractor should include reports and graphics detailing the changes between the previous Progress Update and the Recovery Schedule to demonstrate the scope and geographic areas most effected by the Recovery Schedule changes.

## 6.0 PROPOSAL SCHEDULE GUIDANCE

A Proposal Schedule is an alternative schedule used to evaluate proposed changes to the Contract scope or significant alternatives to previously approved approaches to complete the Work, which may include changes to activity durations, logic and sequence. These situations may include:

- MassDOT (the Engineer) would like to evaluate possible ways (schedule and costs) to regain (accelerate) lost time that has been determined to be Excusable delay (not the fault of the Contractor).
- MassDOT would like to evaluate how a future/possible change to the contract may impact the progression of the Work.
- The Contractor/Design-Builder would like to propose a change to the contract requirements or to the previously accepted approaches to the work.
- The Contractor/Design-Builder would like to propose changes in the sequence of work, accelerated durations (for future activities), or other ideas that improve a forecast to complete that shows the Milestone is trending late.
- The Contractor/Design-Builder would like to submit Value Engineering Cost Proposal (VECP).
- When either party (Engineer or Contractor) would like to evaluate options available to implement a change to the work (for a pending Change Order, Extra Work Order, or potential change in the approach to the Work).

In certain instances, MassDOT may agree to fund the planning and preparation of Proposal Schedules through a Change Order. In those instances, an Extra Work Order should be submitted in advance of starting the planning effort for the Proposal Schedule.

The Proposal Schedule narrative should discuss in detail:

- All changes to and/or additional workforce, overtime and/or shift work
- Any resequencing of scope
- Changes to the project's Critical Path(es)
- Additional equipment resources required
- Any additional or changed lane closure or roadway closures required
- Any accelerated need dates by MassDOT or Third-Parties
- Any changes to the project Calendars
- Any changed, added or deleted activities
- If the schedule requires cost & resource loading, the Proposal Schedule should highlight the changes to the baseline cash flow and resources. MassDOT may direct the Design-Builder/Contractor to provide cost and resource loading of the Proposal Schedule.

The Proposal Schedule shall not be inserted into the monthly project schedule update until the logic, durations, narrative and basis of the Proposal Schedule have been accepted by MassDOT.

MassDOT may not accept fragments (which are often in the form of a partial proposal schedule) until they have been integrated into a copy of the current monthly schedule update.

During the review of any Proposal Schedule, the monthly Progress Schedule Updates shall continue to be required every month.

Changes represented in the accepted Proposal Schedules shall be incorporated into the next Progress Schedule Update.

The Contractor should include reports and graphics detailing the changes between the previous Progress Update and the Proposal Schedule to demonstrate the scope and geographic areas most effected by the Proposal Schedule changes.

## 7.0 SHORT-TERM CONSTRUCTION SCHEDULE GUIDANCE

Short-Term Construction Schedules are an important part of the contract scheduling process, as they allow MassDOT and the Contractor to confirm areas of scope that have been recently completed, plan staff resource requirements for the upcoming scope, and to coordinate the upcoming work with abutters, stakeholders, and any Utilities affected, as well as planning and scheduling upcoming lane closure requirements.

The Short-Term Construction schedule should contain as much or more detail than the Schedule-of-Record, showing where crews will be working on a daily and shift basis. Notes should be included regarding any major material and/or equipment deliveries scheduled, and/or any upcoming coordination requirements.

- The Short-Term Construction Schedule should be submitted using the standard spreadsheet format provided by the District or another format acceptable to the Resident Engineer.
- The Short-Term Construction Schedule should be the product of the Project Superintendent or produced with close consultation with the Project Superintendent so that this schedule accurately reflects the Superintendent's planned activities for the upcoming three (3) week period and accurately documents actual activity work dates for the previous two (2) week period.
- The work activity descriptions and locations should be listed using easily understood language without jargon. In general, use mile-markers or side-streets to identify locations. Do not use stationing or generic terms such as "Intersection 1" or "bridge N-22-019".
- The work activities listed in the Short-Term Construction Schedule should be limited to construction field activities and should closely match the activities in the Schedule of Record. However, related work activities in the Schedule of Record may be combined into a single activity or broken-out into more detail for the Short-Term Construction Schedule when doing so improves clarity.
- The Short-Term Construction Schedule shall use work activities, not pay items.
- The Short-Term Construction Schedule should be provided to both the Resident Engineer and the Contractor's scheduler who produces the monthly Schedule of Record updates. Submittals should be provided at least bi-weekly or whenever requested by the Resident Engineer.

## 8.0 PROJECTED SPENDING REPORT (PSR) GUIDANCE

Projected Spending Reports (PSR) are required to be submitted monthly on all MassDOT construction contracts, including contracts that fall under the Type D specification.

Projected Spending Reports should be submitted in a format acceptable to the Engineer. General guidance regarding PSRs is as follows:

- The PSR should be submitted as an Excel file and Adobe PDF, in table format, in 11x17 landscape orientation.
- The PSR should show monthly spending from NTP through Contractor Field Completion
- The PSR should group schedule activities by Pay Item, with Pay Item Summary equal to the current Pay Item contractual value.
- Unit Price Pay Items may be separate lines, however, Lump Sum Pay Items will be broken-out into individual schedule activities.
- On Type A & B (Cost/Resource Loaded) schedule projects, the PSR should reflect the same break-out as the schedule cost-loading.
- Actual monthly cost estimates should be reflected for all previous months.
- See **Attachment F** for a Sample Projected Spending Report (PSR)

## 9.0 MISCELLANEOUS GUIDANCE

### 9.1 INCORPORATION OF EXTRA WORK ORDERS INTO SCHEDULE

As part of the submission and review of the Extra Work Order, pricing, scope and time related aspects, the Contractor/Design-Builder should prepare a schedule fragnet. A “fragnet” derives from a “fragmentary network”, which represents a piece of a larger logic network within the CPM (critical path method) network. The fragnet is also a term used for MassDOT and the Contractor to analyze how the scope of the Extra Work Order will fit into the Progress Schedule Update (once the EWO is approved).

In preparation of an EWO, the Contractor/Design-Builder is obligated to avoid further delays as a result of the EWO. This can include overtime, new resources, a ‘second heading,’ additional equipment, new resources, additional shifts and/or other approaches that are to be factored into the pricing of the EWO.

The fragnet is the plan for a specific EWO prior to (and without) inserting it into the Project Schedule Update until approved. Therefore, the Contractor’s scheduler should develop the EWO activities, logic, durations, sequencing, resource designations, approach to the work, and assign that new grouping of EWO activities to a pre-existing predecessor(s) and successor(s) that is already in the most recent Progress Schedule Update.

The following is a work-flow for a the development, review and approval of the EWO fragnet.

1. EWO is identified with initial scope.
2. Contractor reviews and starts to develop planning and pricing to avoid further delays in the Progress Schedule Update.
3. Contractor’s Scheduler identifies, from the most recent Progress Schedule Update, the predecessor and successor, that the EWO fragnet will be best tied to (optimal) once the EWO is accepted by MassDOT.
4. Contractor prices the initial scope with consideration for the fragnet.
5. Contractor reviews the pricing and schedule projections (as the fragnet) with MassDOT.
6. MassDOT and the Contractor review the initial scope - to see if any of that scope needs to be expanded, refined or adjusted.
7. Contractor/Scheduler adjust the pricing and fragnet and submits to MassDOT for review and approval.
8. MassDOT reviews and sends comments / questions (if applicable).
9. Contractor/Scheduler provides a final revision of the full EWO package for MassDOT acceptance/approval. Contractor’s Scheduler includes a description of the EWO in the narrative of the current Progress Schedule Update submission.
10. MassDOT reviews and returns (rejects) or accepts with direction to incorporate that EWO fragnet into the next Progress Schedule Update.
11. MassDOT review the EWO, as it is in the Progress Schedule Update, to confirm that it has been inserted properly and that the planned resources (those that were part of the EWO documentation) are being deployed as was planned

### 9.2 INCORPORATION OF NON-CONFORMANCE/DEFICIENCY REPORTS INTO SCHEDULE

In the event of any need for MassDOT and the Contractor to review the cause and extent (days) of delay to the Critical Path(s), it is vital that all activities and events be recorded in each Progress Schedule Update, TEA (and/or contemporaneous windows analysis). Therefore, the Contractor and MassDOT must periodically review and incorporate all corrections to non-conforming work that may {emphasis added} impact the Critical Path. MassDOT realizes that not all NCRs (non-conforming-report) or DRs (deficiency report) need to be incorporated into the Progress Schedule Update --- however, that is the default expectation if both MassDOT and the Contractor

can not agree to which ones need to be inserted into the Project Schedule Update, the TEA, the Recovery Schedule, the fragnet or the Proposal Schedule submissions.

The following is a work-flow for a the development, review and approval of the NCR and/or the DR:

1. An NCR and/or DR is identified with initial scope of the resolution.
2. Contractor reviews the NCR/DR and starts to develop planning to avoid further delays in the Progress Schedule Update.
3. Contractor's Scheduler identifies, from the most recent Progress Schedule Update, the predecessor and successor, that the NCR/DR will be best tied to (optimal) and inserts it into the current Progress Schedule Update submission.
4. Contractor's Schedule includes a description of the NCR/DR in the narrative of the current Progress Schedule Update submission – with a note on the plan to complete that work to avoid further delays to the Critical Paths.
5. Contractor submits the Project Schedule Update submission for review and acceptance.
6. MassDOT reviews and comments on the incorporation fo the NCR/DR.
7. Contractor reviews the schedule review comments (within the typical schedule update process).







## ATTACHMENT A: ACTIVITY CODES

### Design-Bid-Build Schedule Template Activity Codes

Listed below are the suggested activity code fields. Each activity in the schedule shall be coded to each of the following activity codes.

The activity codes should be maintained at the Project Level.




























▼ Display: Activity Codes

| Activity Code   |
|---|
|  CST-Responsibility |
|  CST-Type           |
|  CST-Location       |
|  CST-Phase          |
|  CST-SubPhase       |
|  CST-Step           |

Select Activity Code

CSTv2.0 - CST-Responsibility ▼

▼ Display: CST-Responsibility

| Code Value   | Description                      |
|--|----------------------------------|
|  NA    | Not Applicable                   |
|  DOT   | MassDOT                          |
|  DES   | Designer (Prime)                 |
|  CON   | Contractor (Prime)               |
|  ACO   | Army Corp of Engineers (ACOE)    |
|  DEP  | Dept. of Enviromental Protection |
|  UNS | Utility: NSTAR                   |
|  UKG | Utility: Keyspan-Gas             |
|  UKE | Utility: Keyspan-Electric        |
|  UNG | Utility: National Grid           |
|  UCC | Utility: Comcast                 |
|  UCH | Utility: Charter                 |
|  UWM | Utility: Western Mass Electric   |
|  UVZ | Utility: Verizon                 |
|  UTO | utility: Town                    |
|  ERT | Earthwork Sub                    |
|  CNC | Concrete Sub                     |
|  STL | Steel Sub                        |
|  RBR | Rebar Sub                        |
|  PNT | Painting Sub                     |
|  PIL | Pile Driving Sub                 |
|  PAV | Paving Sub                       |
|  WAT | Water Control Sub                |
|  SB1 | Subcontractor 1                  |
|  SB2 | Subcontractor 2                  |
|  SB3 | Subcontractor 3                  |
|  SB4 | Subcontractor 4                  |

### Select Activity Code

CSTv2.0 - CST-Type

Display: CST-Type

| Code Value | Description    |
|------------|----------------|
| NA         | Not Applicable |
| PRO        | Procurement    |
| CONC       | Concrete       |
| UTIL       | Utility        |
| DEMO       | Demolition     |
| SITE       | Site Work      |
| PAIN       | Painting       |
| STEE       | Steel          |
| REBA       | Rebar          |
| EART       | Earthwork      |
| WATE       | Water Control  |
| PAVE       | Paving         |

### Select Activity Code

CSTv2.0 - CST-Location

Display: CST-Location

| Code Value   | Description                         |
|--------------|-------------------------------------|
| Hopkinton    | Hopkinton, MA                       |
| Marlboro     | Marlborough, MA                     |
| Quadrant 1   | Quadrant 1                          |
| Quadrant 2   | Quadrant 2                          |
| Quadrant 3   | Quadrant 3                          |
| Quadrant 4   | Quadrant 4                          |
| Bridge 1     | Bridge M-14-012                     |
| Bridge 2     | Bridge M-14-013                     |
| 495NB        | I-495 Northbound                    |
| 495SB        | I-495 Southbound                    |
| Ramp H       | Ramp I-90 WB to I-495 NB            |
| 495NBMM04-12 | I-495 NB between Milemarker 4 to 12 |

### Select Activity Code

CSTv2.0 - CST-Phase

Display: CST-Phase

| Code Value | Description        |
|------------|--------------------|
| MS         | Milestones         |
| PC         | Preconstruction    |
| UR         | Utility Relocation |
| CN         | Construction       |
| CL         | Close Out          |
| PL         | Placeholder        |

**Select Activity Code**

CSTv2.0 - CST-SubPhase

Display: CST-SubPhase

| Code Value | Description          |
|------------|----------------------|
| GN         | General              |
| CP         | Calendar Placeholder |
| RP         | Resource Placeholder |
| DU         | Contract Durations   |
| PR         | Procurement          |
| PE         | Permit               |
| P01        | Phase 1              |
| P02        | Phase 2              |
| P03        | Phase 3              |
| P04        | Phase 4              |
| P05        | Phase 5              |
| P06        | Phase 6              |
| P07        | Phase 7              |
| P08        | Phase 8              |
| P09        | Phase 9              |
| P10        | Phase 10             |

**Select Activity Code**

CSTv2.0 - CST-Step

Display: CST-Step

| Code Value | Description                            |
|------------|--|
| SA         | Step A                                 |
| SB         | Step B                                 |
| SC         | Step C                                 |
| SD         | Step D                                 |
| SE         | Step E                                 |
| SF         | Step F                                 |
| SG         | Step G                                 |
| SH         | Step H                                 |
| SI         | Step I                                 |
| SJ         | Step J                                 |
| NOR        | North Side                             |
| SOU        | South Side                             |
| EAS        | East Side                              |
| WES        | West Side                              |
| NE         | Notheast                               |
| NS         | No Step                                |
| NW         | Northwest                              |
| SEA        | Southeast                              |
| SW         | Southwest                              |
| DEM        | Demolition Plan                        |
| BLS        | Baseline Schedule                      |
| WNT        | Winter Concrete Plan                   |
| SEP        | Steel Erection Plan                    |
| CMD        | Concrete Mix Design                    |
| WCP        | Water Control Plan                     |
| HSP        | Health & Safety Plan                   |
| TCP        | Traffic Control Plan                   |
| TPD        | Temporary Pavement Design              |
| SWP        | Storm Water Protection Plan            |
| URP        | Utility Relocation & Coordination Plan |
| STL        | Steel Beams                            |
| BRR        | Bridge Railing                         |
| DRA        | Drainage Structures                    |
| PCD        | Precast Decking                        |

### Design-Build Schedule Template Activity Codes

Listed below are the suggested activity code fields. Each activity in the schedule shall be coded to each of the following activity codes.

The activity codes should be maintained at the Project Level.

▼ Display: Activity Codes

Activity Code

- ▶ CST-Responsibility
- ▶ CST-Type
- ▶ CST-Location
- ▶ CST-Phase
- ▶ CST-SubPhase
- ▶ CST-Step

Select Activity Code

DB CST 1.0 - CST-Responsibility

▼ Display: CST-Responsibility

| Code Value | Description                       |
|------------|-----------------------------------|
| ▶ NA       | Not Applicable                    |
| ▶ D-B      | Design-Builder                    |
| ▶ DOT      | MassDOT                           |
| ▶ DES      | Designer (MassDOT)                |
| ▶ NMFS     | National Marine Fishery Service   |
| ▶ MUN      | Municipality                      |
| ▶ FED      | Federal Highway Admin             |
| ▶ ACO      | Army Corp of Engineers (ACOE)     |
| ▶ DEP      | Dept. of Environmental Protection |
| ▶ UNS      | Utility: NSTAR                    |
| ▶ UKG      | Utility: Keyspan-Gas              |
| ▶ UKE      | Utility: Keyspan-Electric         |
| ▶ UNG      | Utility: National Grid            |
| ▶ UCC      | Utility: Comcast                  |
| ▶ UCH      | Utility: Charter                  |
| ▶ UWM      | Utility: Western Mass Electric    |
| ▶ UVZ      | Utility: Verizon                  |
| ▶ UTO      | Utility: Town                     |
| ▶ ERT      | Earthwork Sub                     |
| ▶ CNC      | Concrete Sub                      |
| ▶ STL      | Steel Sub                         |
| ▶ RBR      | Rebar Sub                         |
| ▶ PNT      | Painting Sub                      |
| ▶ PIL      | Pile Driving Sub                  |
| ▶ PAV      | Paving Sub                        |
| ▶ WAT      | Water Control Sub                 |
| ▶ SB1      | Subcontractor 1                   |
| ▶ SB2      | Subcontractor 2                   |
| ▶ SB3      | Subcontractor 3                   |
| ▶ SB4      | Subcontractor 4                   |

### Select Activity Code

DB CST 1.0 - CST-Type

Display: CST-Type

| Code Value | Description    |
|------------|----------------|
| NA         | Not Applicable |
| DES        | Design         |
| PRO        | Procurement    |
| CONC       | Concrete       |
| UTIL       | Utility        |
| DEMO       | Demolition     |
| SITE       | Site Work      |
| PAIN       | Painting       |
| STEE       | Steel          |
| REBA       | Rebar          |
| EART       | Earthwork      |
| WATE       | Water Control  |
| PAVE       | Paving         |

### Select Activity Code

DB CST 1.0 - CST-Location

Display: CST-Location

| Code Value   | Description                              |
|--------------|--|
| Hopkinton    | Hopkinton, MA                            |
| Marlboro     | Marlborough, MA                          |
| Quadrant 1   | Quadrant 1                               |
| Quadrant 2   | Quadrant 2                               |
| Quadrant 3   | Quadrant 3                               |
| Quadrant 4   | Quadrant 4                               |
| Bridge 1     | Bridge M-14-012                          |
| Bridge 2     | Bridge M-14-013                          |
| 495NB        | I-495 Northbound                         |
| 495SB        | I-495 Southbound                         |
| Ramp H       | Ramp I-90WB to I-495NB                   |
| 495NBMM04-12 | I-495 Northbound between Milemarker 4-12 |

### Select Activity Code

DB CST 1.0 - CST-Phase

Display: CST-Phase

| Code Value | Description        |
|------------|--------------------|
| PR         | D-B Procurement    |
| MS         | Milestones         |
| PC         | Preconstruction    |
| UR         | Utility Relocation |
| CN         | Construction       |
| CL         | Close Out          |
| PL         | Placeholder        |

| ▼ Display: CST-SubPhase |                      |
|-------------------------|----------------------|
| Code Value              | Description          |
| GN                      | General              |
| CP                      | Calendar Placeholder |
| RP                      | Resource Placeholder |
| DU                      | Contract Durations   |
| PR                      | Procurement          |
| PE                      | Permit               |
| DE                      | Design               |
| P01                     | Phase 1              |
| P02                     | Phase 2              |
| P03                     | Phase 3              |
| P04                     | Phase 4              |
| P05                     | Phase 5              |
| P06                     | Phase 6              |
| P07                     | Phase 7              |
| P08                     | Phase 8              |
| P09                     | Phase 9              |
| P10                     | Phase 10             |

| Select Activity Code    |  |
|-------------------------|--|
| DB CST 1.0 - CST-Step ▼ |  |
| ▼ Display: CST-Step     |  |
| Code Value              | Description                            |
| NS                      | No Step                                |
| BLS                     | Baseline Schedule                      |
| HSP                     | Health & Safety Plan                   |
| TCP                     | Traffic Control Plan                   |
| WCP                     | Water Control Plan                     |
| URP                     | Utility Relocation & Coordination Plan |
| SWP                     | Storm Water Protection Plan            |
| DEM                     | Demolition Plan                        |
| CMD                     | Concrete Mix Design                    |
| SEP                     | Steel Erection Plan                    |
| STL                     | Steel Beams                            |
| BRR                     | Bridge Railing                         |
| PCD                     | Precast Decking                        |
| DRA                     | Drainage Structures                    |
| WNT                     | Winter Concrete Plan                   |
| TPD                     | Temporary Pavement Design              |
| SA                      | Step A                                 |
| SB                      | Step B                                 |
| SC                      | Step C                                 |
| SD                      | Step D                                 |
| SE                      | Step E                                 |
| SF                      | Step F                                 |
| SG                      | Step G                                 |
| SH                      | Step H                                 |
| SI                      | Step I                                 |
| SJ                      | Step J                                 |
| NOR                     | North Side                             |
| SOU                     | South Side                             |
| EAS                     | East Side                              |
| WES                     | West Side                              |
| NE                      | Notheast                               |
| NW                      | Northwest                              |
| SEA                     | Southeast                              |
| SW                      | Southwest                              |

## ATTACHMENT B: GUIDE TO ASSIGNING A BASELINE

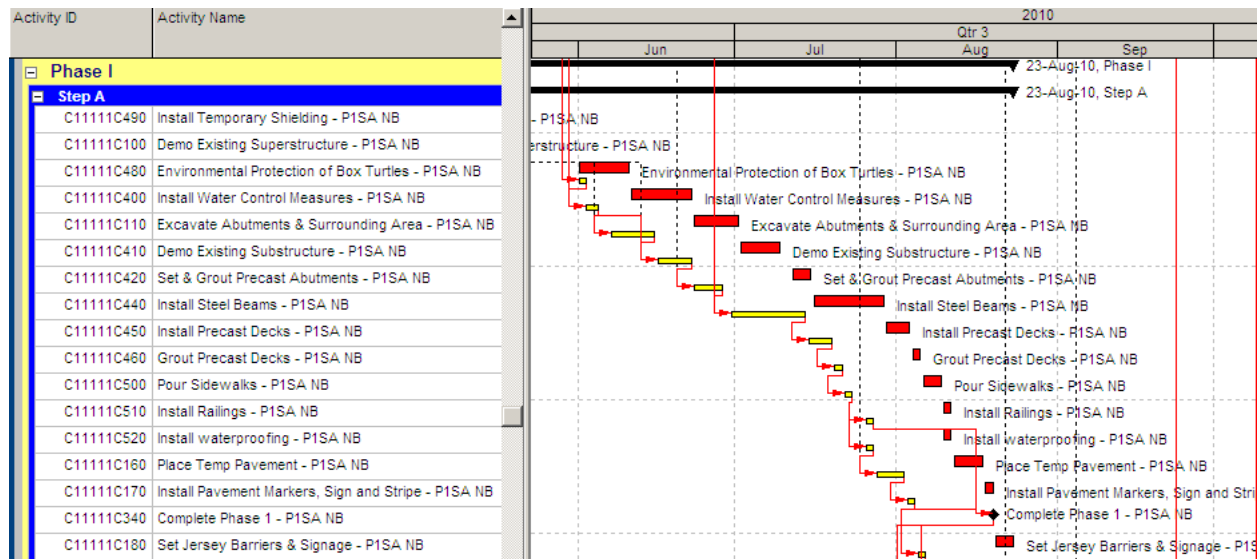
## 1. INTRODUCTION

### WHAT IS A BASELINE COMPARISON (OR TARGET COMPARISON)?

A ‘baseline comparison’ is a graphical and tabular display of current period versus previous schedule information. This provides both the Contractor and Owner with an ability to readily compare current project status to previous forecasts, using the past month schedule submission. From this information, changes in activity durations, schedule logic/relationship, remaining duration, added/deleted activities, activity criticality (total float), and many other important schedule issues (*‘open ends, etc.’*) and will be readily identifiable for discussion, comment, rejection, or acceptance.

*For clarification purposes: Primavera 6 uses the term “baseline” for the project file(s) that is being compared against. Primavera 3 (P3) used the term “target” for the same purpose. This document will use the term “baseline”. However, it should be noted that this does not signify that it is necessarily the “project baseline” which is submitted at start of a project.*

An example is shown below:



**Red Bars** – Current Schedule: show the Current Schedule File Submission (Jun 2010)

**Yellow Bars** – Baseline Schedule: show the Previous Month Schedule Submission (May 2010)

## 2. HOW TO CREATE & ASSIGN A BASELINE

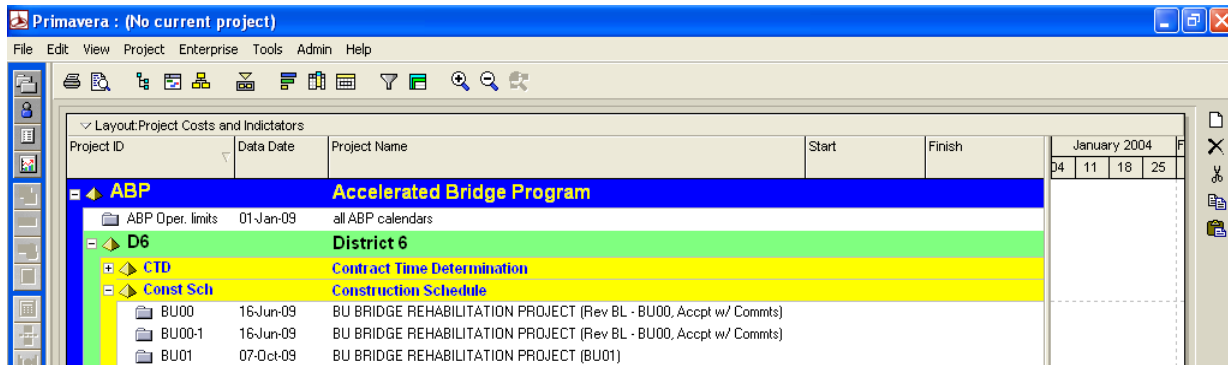
### 1.1 CREATE COPY OF PREVIOUS SCHEDULE

The first step in establishing a baseline to a schedule is to make a copy of the project schedule file that will be established as the baseline.

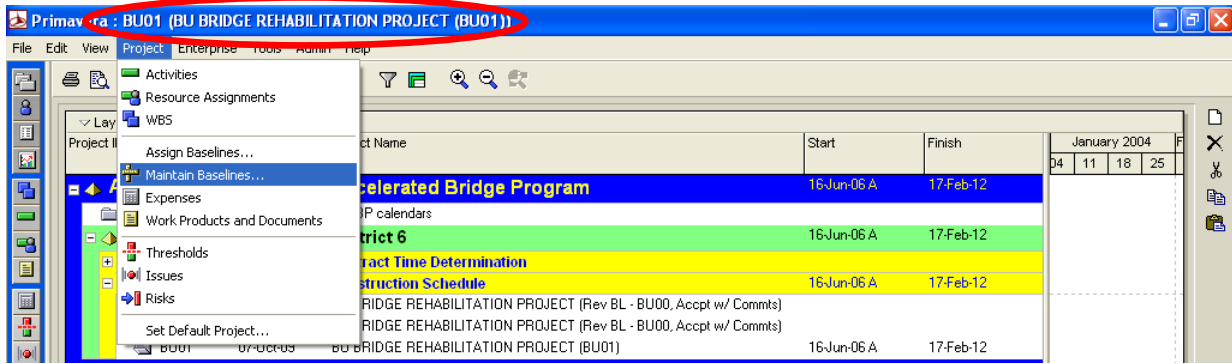
1. Within the 'Projects' view, Select project you would like to establish as the baseline
2. Ensure the project is open, Right click, Copy the project
3. Paste the schedule back into the project list.
  - a. Options: Select the options you would like to copy (normally using the default options is ok).
  - b. The copied file will be named with the same name as the original with an '-1' as a suffix (or sequential increase).
4. Rename the file to ensure proper identification: Example:
  - a. If original file name is: "UP04rev00 Town Bridge"
  - b. New copy should be names "UP04rev00 Copy Town Bridge"

### 1.2 MAINTAIN A BASELINE

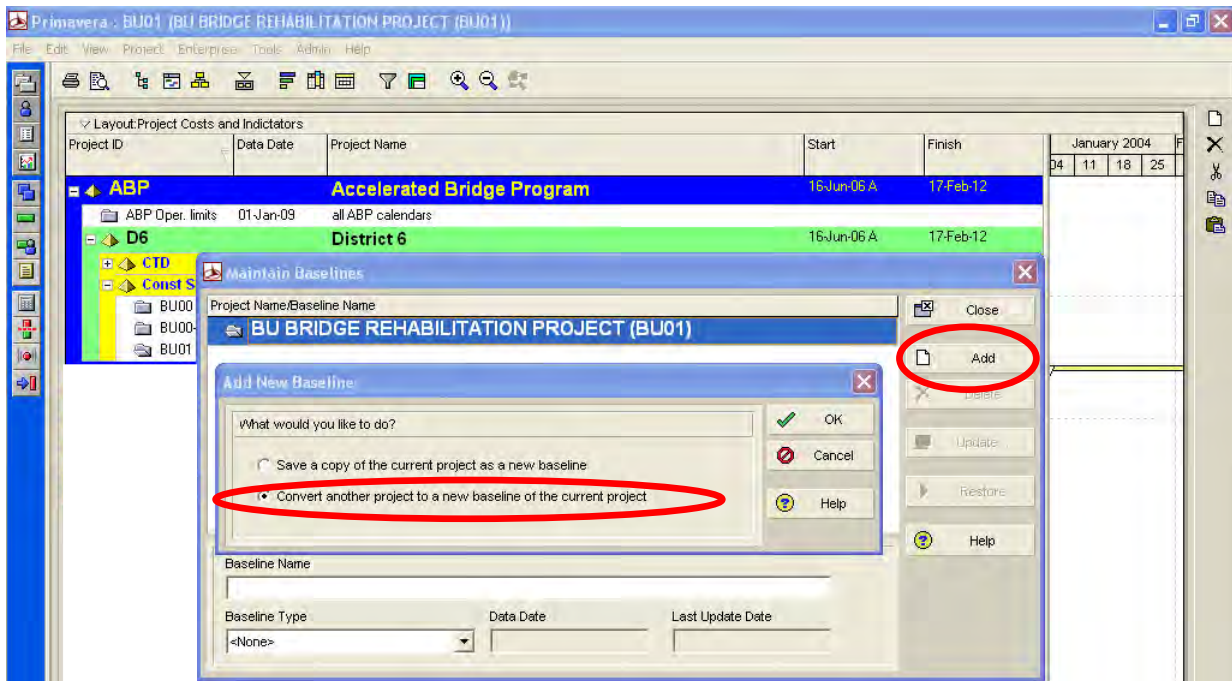
1. In this scenario, BU01 will be our Current Schedule and BU00-1 will be the Baseline (also known as target). To begin, ensure no projects are open. Then open the current project schedule (BU01).



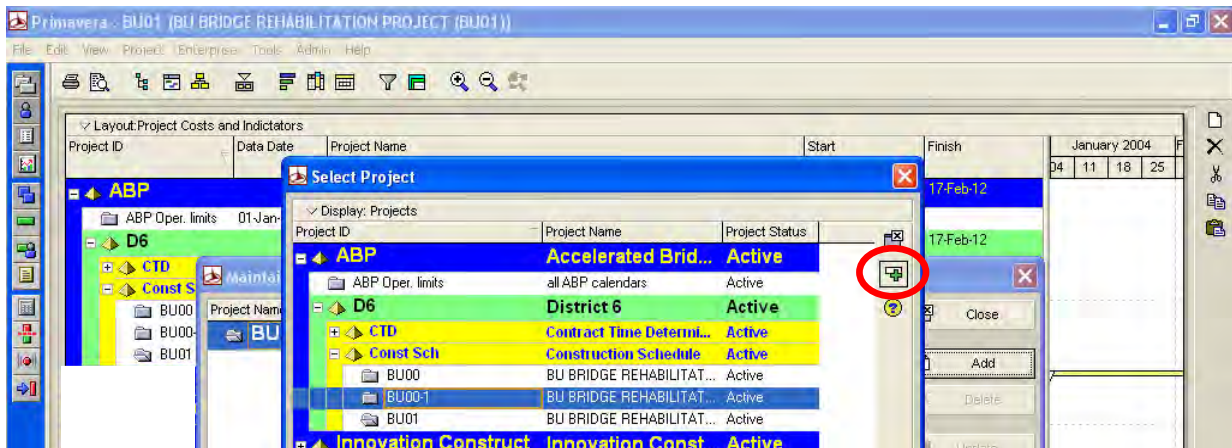
2. Choose Project, Maintain Baselines...
  - 2.1. In this example, Project BU01 is open



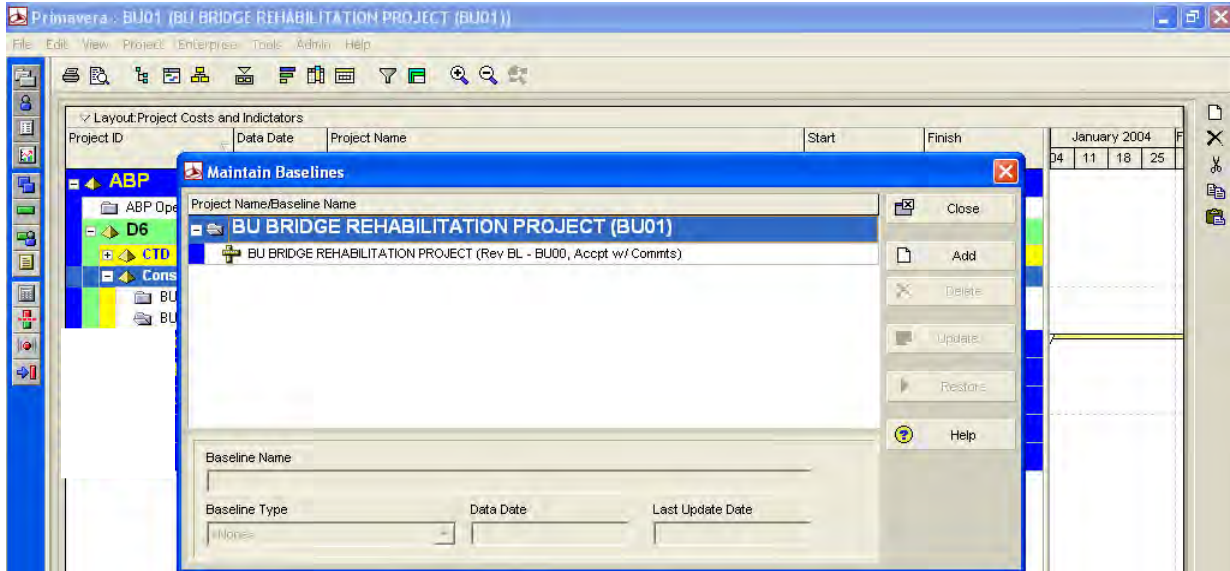
3. Click Add and choose to Convert another project to a new baseline of the current project



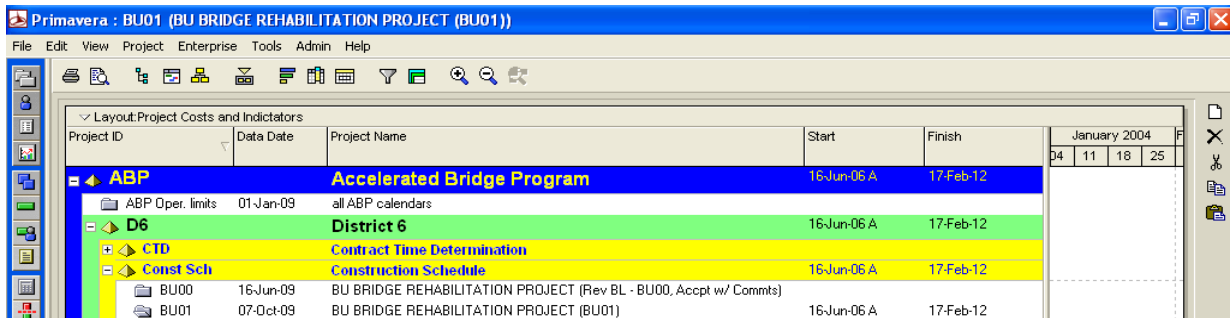
4. Select the project in the Select Project dialog box, choose "BU00-1" and then click the Select button



- Now the current schedule (BU01) contains a baseline schedule (BU00). Click Close



- Once you convert a project to a baseline, it is no longer available in project window (Project ID BU00-1 has been vanished).

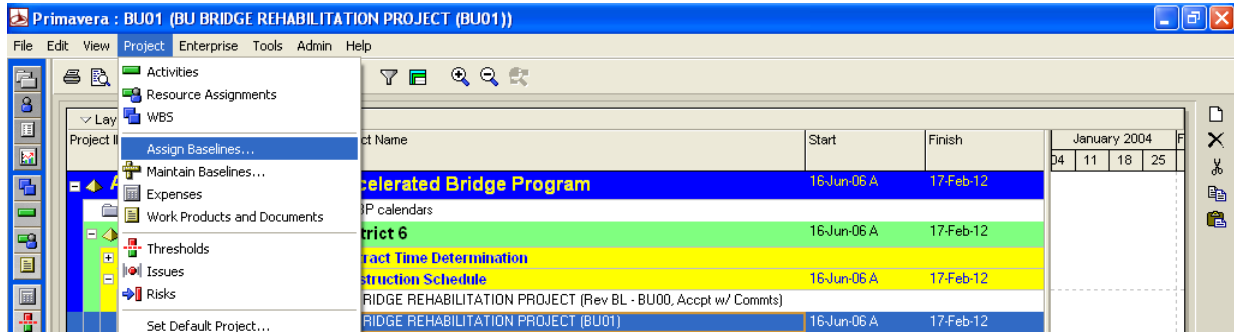


Note: When you choose to convert another project to a baseline, the project you want to convert cannot be open or have baselines assigned to it.

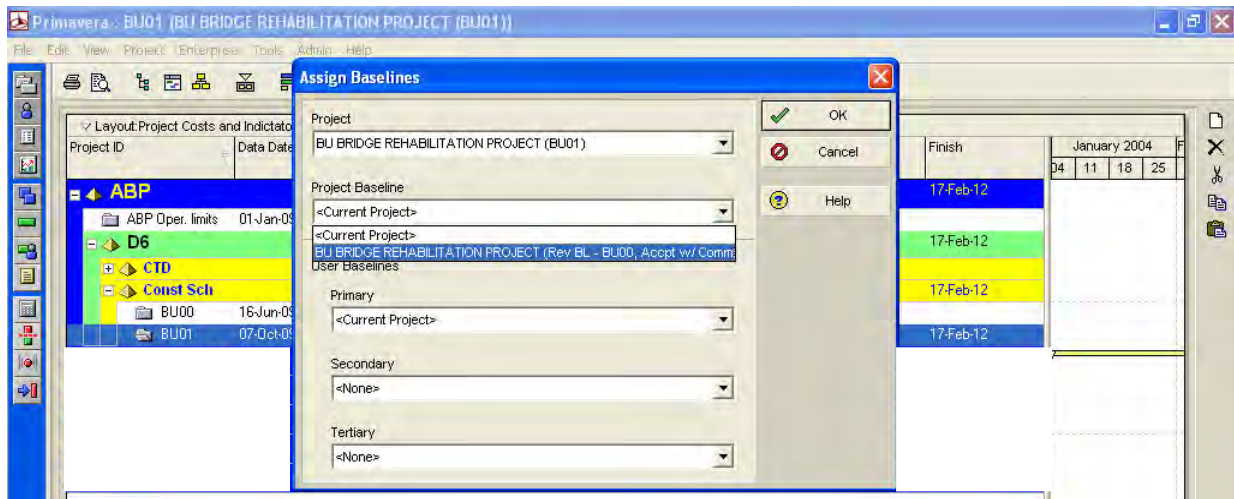
### 1.3 ASSIGNING A BASELINE

P.6 allows you to assign up to four baselines to the current schedule. The four types of baseline are Project Baseline, Primary, Secondary and Tertiary. If you do not select a baseline to use, the current project is used by default.

- Open the current schedule (BU01). It should have been opened from creating a baseline.
- Choose Project, Assign Baselines...



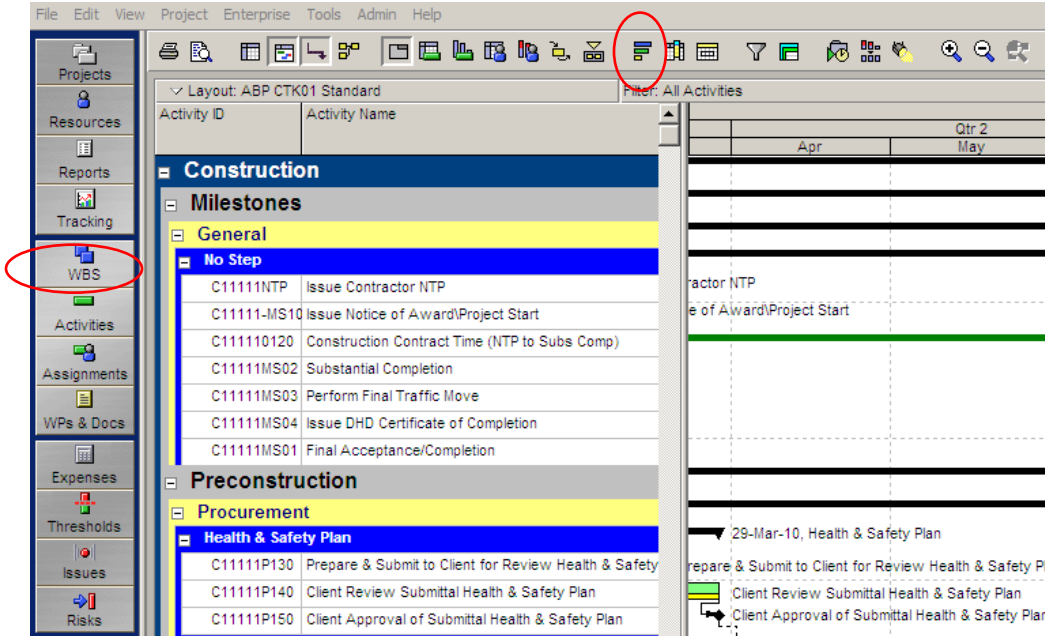
3. In the Project Baseline field, select the project to which you want to assign a baseline. And then click OK.



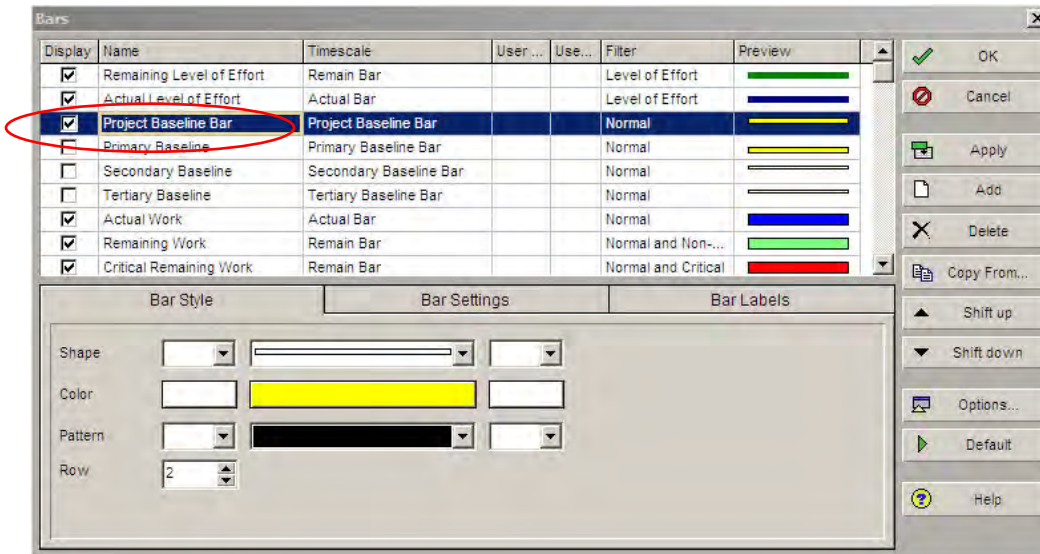
4. Now, the baseline (BU00) has assigned to the current schedule (BU01).

## 2 HOW TO CUSTOMIZE THE CURRENT AND BASELINE BARS

1. With our current schedule open (BU01), select the “activity view” from the left column, then “format bars” from the top row.



2. The select the box for “Project Baseline Bar”. From this window, you can edit the color, size, etc of the baseline bar.



3. Further modifications may be necessary to ensure the row height is adequate.

## 3 REPORTING

### 3.1 HOW TO CUSTOMIZE THE CURRENT AND TARGET TABLE INFORMATION

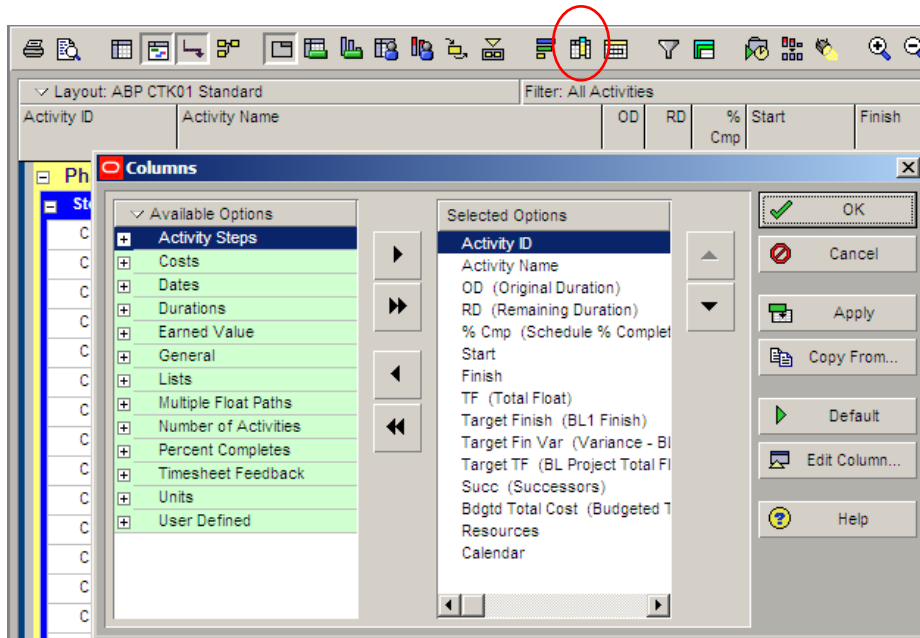
In order for the target comparison report to be complete, there needs to be some time spent customizing the table information for proper comparison. It is necessary to customize and label the current schedule data vs. the previous schedule data and all of the applicable tabular information for the Resident Engineer.

At a minimum, the following tabular data will need to be provided: *Activity ID, Activity Name, Original Duration, Remaining Duration, % Complete, Current Early Start, Current Early Finish, Current Total Float, Previous Early Finish, and Variance to Early Finish. Previous Total Float, Successor, Budgeted Total Cost, Resource, and Calendar.*

This has been fully developed in the Layout titled: “Current vs Baseline Schedule Analysis”, as shown below.

| Activity ID            | Activity Name                                      | Original Duration | Remaining Duration | Schedule % Complete | Early Start | Early Finish | Total Float | BL1 Finish | Variance - BL1 Finish Date | BL Project Total Float | Budgeted Total Cost | Resources | Calendar                          |
|------------------------|--|-------------------|--------------------|---------------------|-------------|--------------|-------------|------------|----------------------------|------------------------|---------------------|-----------|-----------------------------------|
| <b>CSTv2.0</b>         |  | 467               | 467                | 100%                | 01-Jan-23   | 14-Nov-24    | 0           | 14-Jun-23  | -354                       |                        | \$50,000.00         |           |                                   |
| <b>Milestones</b>      |  | 684               | 684                | 0%                  | 01-Jan-23   | 14-Nov-24    | 0           | 14-Jun-23  | -519                       |                        | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| <b>General</b>         |  | 684               | 684                | 0%                  | 01-Jan-23   | 14-Nov-24    | 0           | 14-Jun-23  | -519                       |                        | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_NTP         | Issue Contractor NTP                               | 0                 | 0                  | 100%                | 01-Jan-23   | 01-Jan-23    | -2          |            | -355                       | 48                     | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_MS0         | MS#02 - Substantial Completion                     | 0                 | 0                  | 0%                  |             | 01-Oct-24    | 1           | 10-Apr-23  | -540                       | 0                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_MS0         | MS#01 - Contractor Field Completion                | 0                 | 0                  | 0%                  |             | 14-Nov-24    | 0           | 14-Jun-23  | -519                       | 0                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_MS0         | MS#04 - Perform Final Traffic Move                 | 0                 | 0                  | 0%                  |             | 31-Aug-24    | 0           | 10-Apr-23  | -508                       | 0                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_AR01        | Access Restraint: Relocate UNI before Bridge Demos | 0                 | 0                  | 100%                | 02-Aug-23   |              | -1          |            | -366                       | 3                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_MS0         | MS#03 - Full Beneficial Use                        | 0                 | 0                  | 0%                  |             | 31-Aug-24    | 0           | 10-Apr-23  | -508                       | 0                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| <b>Durations</b>       |  | 684               | 684                | 0%                  | 01-Jan-23   | 14-Nov-24    | 0           | 14-Jun-23  | -519                       |                        | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_1020        | Construction Contract Duration (NTP to CFC)        | 684               | 684                | 68.89%              | 01-Jan-23   | 14-Nov-24    | 0           | 14-Jun-23  | -519                       | 0                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_1010        | Construction Contract Duration (NTP to SC)         | 640               | 640                | 78.54%              | 01-Jan-23   | 01-Oct-24    | 1           | 10-Apr-23  | -540                       | 0                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_1030        | Construction Contract Duration (NTP to AR01)       | 214               | 214                | 100%                | 01-Jan-23   | 02-Aug-23    | -1          | 31-Jul-22  | -367                       | 3                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| ContractNo_1000        | Construction Contract Duration (NTP to FBU)        | 608               | 608                | 78.54%              | 01-Jan-23   | 31-Aug-24    | 0           | 10-Apr-23  | -508                       | 0                      | \$0.00              |           | Cal04-7d/24hr/No Hol (Milestones) |
| <b>Project Wide</b>    |  | 0                 | 0                  | 0%                  |             |              | 0           |            |                            |                        | \$0.00              |           |                                   |
| <b>Preconstruction</b> |  | 131               | 131                | 0%                  | 01-Jan-23   | 12-Jul-23    | 285         | 12-Jul-22  | -249                       |                        | \$0.00              |           |                                   |
| ContractNo_PreCon      | Pre-Construction Meeting                           | 1                 | 1                  | 100%                | 03-Jan-23   | 03-Jan-23    | 14          | 10-Jan-22  | -244                       | 101                    | \$0.00              |           | Cal01-5d/8hr/12hol                |

The tabular data can be formatted using the “format columns” icon below:



### 3.2 REPORT FORMATTING

1. Each schedule printout should contain a minimum amount of information to allow for proper identification of the paper schedule, this information is normally presented in the header or footer. Please include the following information:
  - a. Project Number and Name
  - b. Contractor Name and Schedule Consultant (if applicable)
  - c. Data Date, Run Date
  - d. Layout Name, Filter Name
  - e. Project Start Date, Project Finish Date.
  - f. Any applicable comments
  - g. Page Numbers
  
2. This information built into each layout provided in the Contractor Schedule Toolkit template files. It is suggested that the Contractor open the “Current vs Baseline Schedule Analysis” layout and select “save as” to create layouts for their own use and benefit.

## ATTACHMENT C: GUIDE TO COST & RESOURCE LOADING

## 1. INTRODUCTION

### 1.1 ASSIGNING COST & RESOURCES

As part of the Construction Baseline Schedule development, the schedule shall be cost and resource loaded at the activity level, as described in the Schedule Specifications Section 8.02 and 722.

The following guide helps demonstrate one methodology that provides adequate cost and resource loading in Primavera P6. This document is a recommendation only, Specification Section 8.02 and 722 shall control.

## 2. COST LOADING

### 1. General Comments:

- a. The cost loaded schedule should represent how the bid price translates to schedule and to each individual activity.
- b. Each bid item presented in the schedule should summarize to the total value that was presented in the Contractor's bid.
- c. Cost loading must occur at the activity level.
- d. For all activities that require cost to complete should be cost loaded.
- e. No individual activity should be cost loaded for more than \$50,000, per the specification.
- f. Depending on the type of activity, multiple bid items may be applied to a single activity in order to capture the full cost of construction.
  - i. For example: An activity of "Installation of Drainage Pipe" may be assigned the following bid items: Excavation, Place stone bed, Install pipe, Backfill, and Compaction.

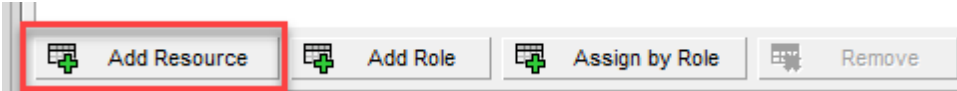
### 2. Process:

- a. Once the CPM schedule has been developed, calculated, and verified, the Contractor should begin to add the appropriate Resource ID representing the Cost to each activity.
  - i. Select the Activity
  - ii. Select the Resources Tab
  - iii. Select Add Resource

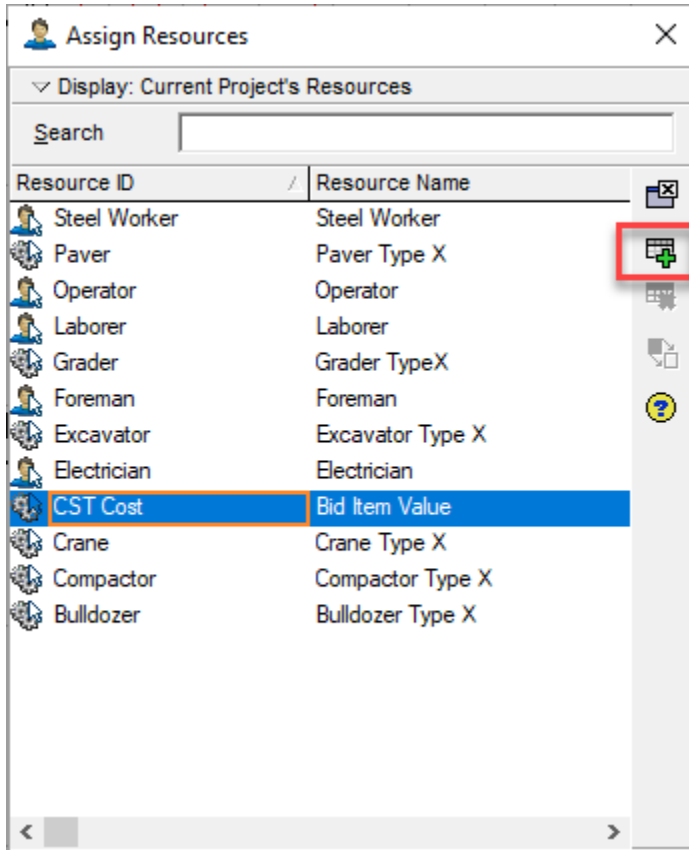
| Activity ID     | Activity Name  | Budgeted Total Cost |
|-----------------|--|---------------------|
| <b>Stage 2</b>  |  |                     |
| <b>Step A</b>   |  |                     |
| ContractNo_C750 | Traffic Switch from Phase I                              | \$0.00              |
| ContractNo_C765 | Install Temporary Shielding - P2SA SB                    | \$0.00              |
| ContractNo_C755 | Install Water Control Measures - P2SA SB                 | \$0.00              |
| ContractNo_C805 | Demo Existing Substructure - P2SA SB                     | \$0.00              |
| ContractNo_C790 | Excavate Abutments & Surrounding Area - P2SA SB          | \$0.00              |
| ContractNo_C815 | Set & Grout Precast Abutments - P2SA SB (NOTE: Ensure Gi | \$0.00              |

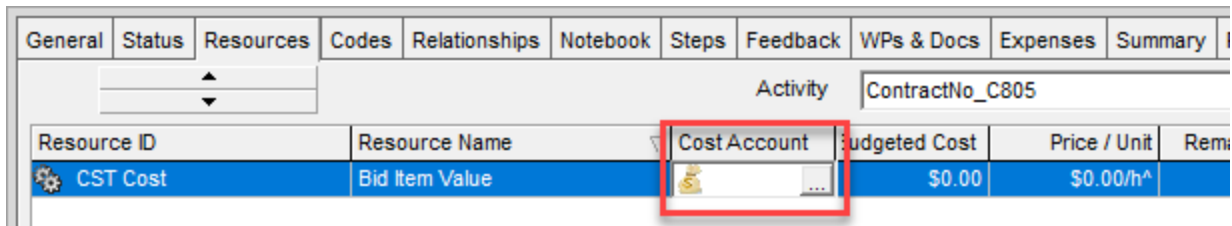
|         |        |                  |       |               |          |       |          |            |                 |
|---------|--------|------------------|-------|---------------|----------|-------|----------|------------|-----------------|
| General | Status | <b>Resources</b> | Codes | Relationships | Notebook | Steps | Feedback | WPs & Docs | Expenses        |
|         |        |                  |       |               |          |       |          | Activity   | ContractNo_C805 |



b. Begin by selecting a Resource ID of "CST Cost". Click "Assign" to add.



- c. Once a Resource ID of "CST Cost" is assigned, select a "Cost Account" equal to the Bid Items associated with the activity. In this case, "Demo Existing Superstructure". In this case only one bid item applies.
  - i. It may be helpful to use the search feature to find the correct bid item, begin by typing a key term, in this case: 'demo'
  - ii. Find the appropriate bid item and Click "Assign" to add.



Select Cost Account ✕

▼ Display: Current Project's Cost Account

Search

| Cost Account ID | Cost Account Name                                 |  |
|-----------------|---|--|
| 112.01          | DEMOLITION OF BUILDING OR STRUCTURE NO. ____      |  |
| 112.02          | DEMOLITION OF BUILDING OR STRUCTURE NO. ____-1    |  |
| 112.03          | DEMOLITION OF BUILDING OR STRUCTURE NO. ____-2    |  |
| 114.1           | DEMOLITION OF SUPERSTRUCTURE OF BRIDGE NO. ____   |  |
| 114.2           | DEMOLITION OF SUPERSTRUCTURE OF BRIDGE NO. ____-1 |  |
| 114.3           | DEMOLITION OF SUPERSTRUCTURE OF BRIDGE NO. ____-2 |  |
| 115.1           | DEMOLITION OF BRIDGE NO. ____                     |  |
| 115.2           | DEMOLITION OF BRIDGE NO. ____-1                   |  |

- d. Assigning Budget Value
- i. Once the Cost Account is assigned, type in the cost for this item in the “Budgeted Account” field.
  - ii. Price/Unit can be left blank as only the total budgeted cost will be entered (no need to enter price/units, etc)

| General   | Status         | Resources    | Codes         | Relationships | Notebook       | Steps       | Feedback        | WPs & Docs | Expenses | Summary | Predecessors | Successors |
|---|----------------|--------------|---------------|---------------|----------------|-------------|-----------------|------------|----------|---------|--------------|------------|
| Activity <input type="text" value="ContractNo_C805"/> |                |              |               |               |                |             |                 |            |          |         |              |            |
| Resource ID   | Resource Name  | Cost Account | Budgeted Cost | Price / Unit  | Remaining Cost | Actual Cost | Completion Cost |            |          |         |              |            |
| CST Cost  | Bid Item Value | 112.01       | \$25,000.00   | \$0.00/h^     | \$25,000.00    | \$0.00      | \$25,000.00     |            |          |         |              |            |

### 3. RESOURCES

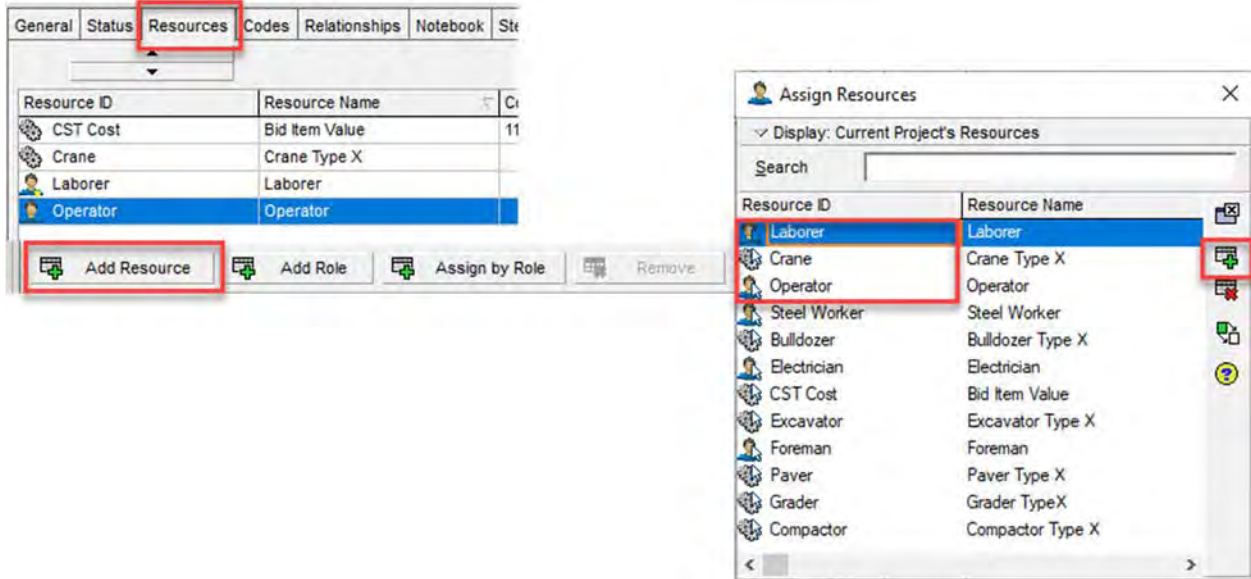
1. General Notes:

- a. Resource loading is required for both labor and major equipment.
  - i. Labor:
    - 1. All planned labor resources should be loaded to all activities in the schedule, as required.
    - 2. Labor resources must be loaded including both the General Contractor and all Subcontractors work.
    - 3. Labor resources must be loaded to the individual labor trade. For example, laborers, operators, carpenters, etc.
    - 4. Labor resources are recommended to be loaded using a unit of man-hours. , Alternatively, 'crew-loading' can be used, if the narrative provides details on the components of all crews.
    - 5. The intent is to assign the total number of manhours required to complete each activity as a resource to the activity.
  - ii. Equipment:
    - 1. The intent is to tack major equipment items only.
    - 2. Major equipment includes, but is not limited to: cranes, excavators, bulldozers, compactors, graders, etc.
    - 3. Please assign the total number of days (or hours) of usage to each activity as a resource to the activity. The narrative should described the unit of measurement, hours or days.

2. Process:

- a. Add the appropriate Resource ID of Equipment and Labor to each activity.
  - i. Select the Activity
  - ii. Select the Resources Tab
  - iii. Select Add Resource
    - 1. Find the appropriate Labor and Equipment resources needed to complete this task.
    - 2. For this activity, we will need 4 laborers, 1 operator and 1 crane.
    - 3. We select each resource independently and select "Assign", repeat for each.

| Activity ID     | Activity Name  | Budgeted Total Cost |
|-----------------|--|---------------------|
| <b>Stage 2</b>  |  |                     |
| <b>Step A</b>   |  |                     |
| ContractNo_C750 | Traffic Switch from Phase I                              | \$0.00              |
| ContractNo_C765 | Install Temporary Shielding - P2SA SB                    | \$0.00              |
| ContractNo_C755 | Install Water Control Measures - P2SA SB                 | \$0.00              |
| ContractNo_C805 | Demo Existing Substructure - P2SA SB                     | \$0.00              |
| ContractNo_C790 | Excavate Abutments & Surrounding Area - P2SA SB          | \$0.00              |
| ContractNo_C815 | Set & Grout Precast Abutments - P2SA SB (NOTE: Ensure Gi | \$0.00              |



3. Assigning the correct “Budgeted Units”

a. Manpower

- i. Manpower should be tracked in total number of labor-hours for the resource/activity.
- ii. For Laborer: This activity requires 4 laborers at 8 hours/day and 5 days (4\*8\*5)= 160 units (total hours)
- iii. For Operator: This activity requires 1 operator at 8 hours/day and 5 days (1\*8\*5)= 40 units (total hours)

b. Equipment

- i. Equipment should be tracked by days of usage.
- ii. This task will require only one piece of major equipment – a crane.
- iii. For Crane: This activity requires 1 crane for each of the 5 days (1\*5)= 5 units (crane-days)

| Resource ID | Resource Name  | Budgeted Units | Budgeted Units / Time | Remaining Units | At Completion Units | Cost Account | Budgeted Cost | Remaining Cost | At Completion Cost |
|-------------|----------------|----------------|-----------------------|-----------------|---------------------|--------------|---------------|----------------|--------------------|
| CST Cost    | Bid Item Value | 0              | 0/d                   | 0               | 0                   | 112.01       | \$25,000.00   | \$25,000.00    | \$25,000.00        |
| Crane       | Crane Type X   | 5              | 1/d                   | 5               | 5                   |              | \$0.00        | \$0.00         | \$0.00             |
| Laborer     | Laborer        | 160            | 32/d                  | 160             | 160                 |              | \$0.00        | \$0.00         | \$0.00             |
| Operator    | Operator       | 40             | 8/d                   | 40              | 40                  |              | \$0.00        | \$0.00         | \$0.00             |

## ATTACHMENT D: PRIMAVERA SCHEDULE REPORTS

| Activity ID | Activity Name | OD | Start | Finish | Calendar | 2023 |    |    |    | 2024 |    |    |    | 2025 |    |    |
|-------------|---------------|----|-------|--------|----------|------|----|----|----|------|----|----|----|------|----|----|
|             |               |    |       |        |          | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 |

**Design-Build CSTv1.0**

**Design-Build Contract Procurement**

|                     |   |    |           |           |                             |   |
|---------------------|---|----|-----------|-----------|-----------------------------|---|
| ContractNo_Prelim   | BTC Plans/Specs/Spec. Prov. accepted by MassDOT | 0  | 03-Jan-23 |           | Cal01-5d/8hr/12hol          | ▶ BTC Plans/Specs/Spec. Prov. accepted by MassDOT |
| ContractNo_Prelim10 | FHWA Review BTC Plans/Specs/Spec. Provisions    | 30 | 03-Jan-23 | 01-Feb-23 | Cal03A -7 d/8hr/No Holiday: | ■ FHWA Review BTC Plans/Specs/Spec. Provisions    |
| ContractNo_LOI      | Advertise Request for Letters-of-Interest (LOI) | 0  | 07-Jan-23 |           | Cal19 -5 aturday Only (Adv  | ▶ Advertise Request for Letters-of-Interest (LOI) |
| ContractNo_LOIP     | Letters-of-Interest (LOI) Procurement           | 40 | 07-Jan-23 | 15-Feb-23 | Cal03A -7 d/8hr/No Holiday: | ■ Letters-of-Interest (LOI) Procurement           |
| ContractNo_RFP20    | FHWA Concurrence to Advertise                   | 0  |           | 01-Feb-23 | Cal01-5d/8hr/12hol          | ◆ FHWA Concurrence to Advertise                   |
| ContractNo_LOID     | Letters-of-Interest (LOI) Due                   | 0  |           | 15-Feb-23 | Cal01-5d/8hr/12hol          | ◆ Letters-of-Interest (LOI) Due                   |
| ContractNo_RFQ      | Issue Request for Qualifications (RFQ)          | 0  | 16-Feb-23 |           | Cal01-5d/8hr/12hol          | ◆ Issue Request for Qualifications (RFQ)          |
| ContractNo_RFQP     | Statement of Qualifications Prepared            | 28 | 16-Feb-23 | 15-Mar-23 | Cal03A -7 d/8hr/No Holiday: | ■ Statement of Qualifications Prepared            |
| ContractNo_RFQD     | Statement of Qualifications Due                 | 0  |           | 15-Mar-23 | Cal01-5d/8hr/12hol          | ◆ Statement of Qualifications Due                 |
| ContractNo_ShList   | Shortlist of Proposers Selected/Notified        | 20 | 16-Mar-23 | 04-Apr-23 | Cal03A -7 d/8hr/No Holiday: | ■ Shortlist of Proposers Selected/Notified        |
| ContractNo_RFP10    | Advertise Request for Proposals                 | 0  | 08-Apr-23 |           | Cal19 -5 aturday Only (Adv  | ◆ Advertise Request for Proposals                 |
| ContractNo_RFP      | Release Request for Proposals (RFP)             | 0  | 10-Apr-23 |           | Cal01-5d/8hr/12hol          | ◆ Release Request for Proposals (RFP)             |
| ContractNo_RFPP20   | Pre-Proposal Meeting                            | 1  | 10-Apr-23 | 10-Apr-23 | Cal01-5d/8hr/12hol          | Pre-Proposal Meeting                              |
| ContractNo_RFPP     | Proposers Prepare Proposals                     | 43 | 10-Apr-23 | 22-May-23 | Cal03A -7 d/8hr/No Holiday: | ■ Proposers Prepare Proposals                     |
| ContractNo_RFPP30   | ATC Meetings                                    | 3  | 11-Apr-23 | 13-Apr-23 | Cal01-5d/8hr/12hol          | ATC Meetings                                      |
| ContractNo_RFPP50   | ATC Proposals Due                               | 1  | 14-Apr-23 | 14-Apr-23 | Cal01-5d/8hr/12hol          | ATC Proposals Due                                 |
| ContractNo_RFPP40   | Final RFP Questions Due                         | 1  | 15-May-23 | 15-May-23 | Cal01-5d/8hr/12hol          | Final RFP Questions Due                           |
| ContractNo_RFPP10   | Technical and Price Proposals Due               | 0  |           | 22-May-23 | Cal01-5d/8hr/12hol          | ◆ Technical and Price Proposals Due               |
| ContractNo_RFPD00   | Oral Presentation of Design-Build Proposals     | 2  | 31-May-23 | 01-Jun-23 | Cal01-5d/8hr/12hol          | Oral Presentation of Design-Build Proposals       |
| ContractNo_RFPD10   | Scoring of Technical Proposals                  | 2  | 02-Jun-23 | 05-Jun-23 | Cal01-5d/8hr/12hol          | Scoring of Technical Proposals                    |
| ContractNo_BID      | Public Price Bid Opening                        | 0  |           | 06-Jun-23 | Cal01-5d/8hr/12hol          | ◆ Public Price Bid Opening                        |
| ContractNo_NOA      | Issue Notice of Award/Project Start             | 45 | 08-Jun-23 | 22-Jul-23 | Cal03A -7 d/8hr/No Holiday: | ■ Issue Notice of Award/Project Start             |

**Milestones**

**General**

|                 |  |   |           |            |                            |  |
|-----------------|--|---|-----------|------------|----------------------------|--|
| ContractNo_NTP  | Issue Design-Builder Notice-to-Proceed (NTP)       | 0 | 22-Jul-23 |            | Cal04-7d/24Hr/No Hol (Mile | ◆ Issue Design-Builder Notice-to-Proceed (NTP)       |
| ContractNo_AR01 | Access Restraint: Relocate Util before Bridge Demo | 0 | 10-Apr-24 |            | Cal04-7d/24Hr/No Hol (Mile | ◆ Access Restraint: Relocate Util before Bridge Demo |
| ContractNo_MS04 | MS#04 -perform Final Traffic Move                  | 0 |           | 23-Apr-25  | Cal04-7d/24Hr/No Hol (Mile | ◆ MS#04 -perform Final Traffic Move                  |
| ContractNo_MS03 | MS#03 -Full Beneficial Use (FBU)                   | 0 |           | 23-Apr-25* | Cal04-7d/24Hr/No Hol (Mile | ◆ MS#03 -Full Beneficial Use (FBU)                   |
| ContractNo_MS02 | MS#02 -Substantial Completion (SC)                 | 0 |           | 22-May-25* | Cal04-7d/24Hr/No Hol (Mile | ◆ MS#02 -Substantial Completion (SC)                 |
| ContractNo_MS01 | MS#01 -Field Completion (CFC)                      | 0 |           | 08-Jul-25* | Cal04-7d/24Hr/No Hol (Mile | ◆ MS#01 -Field Completion (CFC)                      |

**Durations**

|                 |  |     |           |           |                            |  |
|-----------------|--|-----|-----------|-----------|----------------------------|--|
| ContractNo_1030 | Construction Contract Duration (NTP to AR01) | 263 | 22-Jul-23 | 10-Apr-24 | Cal04-7d/24Hr/No Hol (Mile | Construction Contract Duration (NTP to AR01) |
| ContractNo_1000 | Construction Contract Duration (NTP to FBU)  | 641 | 22-Jul-23 | 23-Apr-25 | Cal04-7d/24Hr/No Hol (Mile | Construction Contract Duration (NTP to FBU)  |
| ContractNo_1010 | Construction Contract Duration (NTP to SC)   | 670 | 22-Jul-23 | 22-May-25 | Cal04-7d/24Hr/No Hol (Mile | Construction Contract Duration (NTP to SC)   |

■ Remaining Level of Effort    ◆ Milestone  
■ Actual Level of Effort  
■ Actual Work  
■ Remaining Work  
■ Critical Remaining Work

Layout = CST01-Baseline-All, Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23, Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23 Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
|------|----------|---------|----------|
|      |          |         |          |
|      |          |         |          |
|      |          |         |          |
|      |          |         |          |

| Activity ID                          | Activity Name   | OD  | Start     | Finish    | Calendar                    | 2023 |    |    |    | 2024 |    |    |    | 2025 |    |    |  |  |  |
|--------------------------------------|---|-----|-----------|-----------|-----------------------------|------|----|----|----|------|----|----|----|------|----|----|--|--|--|
|                                      |   |     |           |           |                             | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 |  |  |  |
| ContractNo_1020                      | Construction Contract Duration (NTP to CFC)                           | 717 | 22-Jul-23 | 08-Jul-25 | Cal04-7d/24Hr/No Hol (Mile  |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| <b>Submittals &amp; Procurements</b> |   |     |           |           |                             |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| <b>Early Release Design Packages</b> |   |     |           |           |                             |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| <b>Geotechnical Report</b>           |   |     |           |           |                             |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2640                      | Prepare & Submit Subsurface Investigation Plan                        | 10  | 24-Jul-23 | 04-Aug-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2660                      | Review & Approve Subsurface Investigation Plan                        | 10  | 05-Aug-23 | 14-Aug-23 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2650                      | Schedule/Perform Geotech Borings & Test Pits                          | 30  | 15-Aug-23 | 26-Sep-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1680                      | Prepare Geotechnical Report   | 9   | 27-Sep-23 | 10-Oct-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1950                      | Schedule & Conduct OTS Review -G eotechnical Report                   | 2   | 11-Oct-23 | 12-Oct-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1940                      | Submit Geotechnical Report  | 4   | 13-Oct-23 | 18-Oct-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2050                      | Review & Approve Geotechnical Report                                  | 30  | 19-Oct-23 | 17-Nov-23 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| <b>Drilled Shafts</b>                |   |     |           |           |                             |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1740                      | Prepare Drilled Shafts Design   | 10  | 19-Oct-23 | 01-Nov-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1990                      | Schedule & Conduct OTS Review -D rilled Shafts Design                 | 1   | 02-Nov-23 | 02-Nov-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1980                      | Submit Drilled Shafts Design  | 3   | 03-Nov-23 | 07-Nov-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2060                      | Review & Approve Drilled Shafts Design                                | 30  | 08-Nov-23 | 07-Dec-23 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1750                      | Comment Resolution & Reissue Drilled Shafts Design                    | 10  | 08-Dec-23 | 21-Dec-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1890                      | Procure Drilled Shaft Casings   | 30  | 22-Dec-23 | 20-Jan-24 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| <b>Substructure Rebar</b>            |   |     |           |           |                             |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1780                      | Prepare Early Release -S ubstructure Design                           | 90  | 24-Jul-23 | 29-Nov-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2010                      | Schedule & Conduct OTS Review -E arly Release -S ubstructure Design   | 7   | 30-Nov-23 | 08-Dec-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2000                      | Submit Early Release -S ubstructure Design                            | 4   | 11-Dec-23 | 14-Dec-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2070                      | Review & Approve Early Release -S ubstructure Design                  | 30  | 15-Dec-23 | 13-Jan-24 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1790                      | Comment Resolution & Reissue Early Release -S ubstructure Design      | 10  | 16-Jan-24 | 29-Jan-24 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| <b>Structural Steel</b>              |   |     |           |           |                             |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1760                      | Prepare Early Release -S uperstructure Design                         | 90  | 24-Jul-23 | 29-Nov-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1970                      | Schedule & Conduct OTS Review -E arly Release -S uperstructure Design | 1   | 30-Nov-23 | 30-Nov-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1960                      | Submit Early Release -S uperstructure Design                          | 1   | 01-Dec-23 | 01-Dec-23 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1770                      | Review & Approve Early Release -S uperstructure Design                | 30  | 02-Dec-23 | 31-Dec-23 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_2040                      | Comment Resolution & Reissue Early Release -S uperstructure Design    | 5   | 02-Jan-24 | 08-Jan-24 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1710                      | Prepare & Submit Structural Steel Shop Drawings                       | 40  | 09-Jan-24 | 06-Mar-24 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1720                      | Review & Approve Structural Steel Shop Drawings                       | 30  | 07-Mar-24 | 05-Apr-24 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1730                      | Procure Structural Steel Stage 1                                      | 75  | 06-Apr-24 | 19-Jun-24 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1800                      | Procure Structural Steel Stage 2                                      | 120 | 20-Jun-24 | 17-Oct-24 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| <b>Bridge Bearings Design</b>        |   |     |           |           |                             |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1830                      | Prepare & Submit Early Release Bridge Bearings                        | 20  | 09-Jan-24 | 06-Feb-24 | Cal01-5d/8hr/12hol          |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| ContractNo_1840                      | Review & Approve Early Release Bridge Bearings                        | 30  | 07-Feb-24 | 07-Mar-24 | Cal03A -7 d/8hr/No Holiday: |      |    |    |    |      |    |    |    |      |    |    |  |  |  |
| <b>Bridge Scuppers Design</b>        |   |     |           |           |                             |      |    |    |    |      |    |    |    |      |    |    |  |  |  |

■ Remaining Level of Effort    ◆ Milestone  
■ Actual Level of Effort  
■ Actual Work  
■ Remaining Work  
■ Critical Remaining Work

Layout = CST01-Baseline-All,    Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23,    Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23    Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
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| Activity ID                                   | Activity Name  | OD | Start     | Finish    | Calendar                    | Gantt Chart |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
|---|--|----|-----------|-----------|-----------------------------|-------------|----|----|----|------|----|----|----|------|----|----|----|--|--|--|--|--|--|
|   |  |    |           |           |                             | 2023        |    |    |    | 2024 |    |    |    | 2025 |    |    |    |  |  |  |  |  |  |
|   |  |    |           |           |                             | Q1          | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 |  |  |  |  |  |  |
| ContractNo_1850                               | Prepare & Submit Bridge Scupper Design                             | 45 | 09-Jan-24 | 13-Mar-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Bridge Scupper Design                             |
| ContractNo_1860                               | Review & Approve Bridge Scupper Design                             | 30 | 14-Mar-24 | 12-Apr-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Bridge Scupper Design                             |
| <b>Bridge Joint Design</b>                    |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_1870                               | Prepare & Submit Bridge Joint Design                               | 45 | 09-Jan-24 | 13-Mar-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Bridge Joint Design                               |
| ContractNo_1880                               | Review & Approve Bridge Joint Design                               | 30 | 14-Mar-24 | 12-Apr-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Bridge Joint Design                               |
| <b>Projectwide Submittals</b>                 |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Project Schedule</b>                       |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2080                               | Prepare & Submit Initial Baseline Project Schedule (Logic Only)    | 40 | 24-Jul-23 | 18-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Initial Baseline Project Schedule (Logic Only)    |
| ContractNo_2090                               | Review & Comment on Initial Baseline Project Schedule (Logic Only) | 30 | 19-Sep-23 | 18-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Comment on Initial Baseline Project Schedule (Logic Only) |
| ContractNo_2220                               | Prepare & Submit Baseline Schedule (Logic Only) (Rev 1)            | 15 | 19-Oct-23 | 08-Nov-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Baseline Schedule (Logic Only) (Rev 1)            |
| ContractNo_2230                               | Review & Comment on Baseline Schedule (Logic Only) (Rev 1)         | 15 | 09-Nov-23 | 23-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Comment on Baseline Schedule (Logic Only) (Rev 1)         |
| ContractNo_2620                               | Prepare & Submit Cost & Resource Loaded Baseline Schedule          | 15 | 24-Nov-23 | 14-Dec-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Cost & Resource Loaded Baseline Schedule          |
| ContractNo_2630                               | Review & Approve Cost & Resource Loaded Baseline Schedule          | 21 | 15-Dec-23 | 04-Jan-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Cost & Resource Loaded Baseline Schedule          |
| <b>Project Management Plan</b>                |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2100                               | Prepare & Submit Project Management Plan                           | 30 | 24-Jul-23 | 01-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Project Management Plan                           |
| ContractNo_2110                               | Review & Approve Project Management Plan                           | 30 | 02-Sep-23 | 01-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Project Management Plan                           |
| <b>Public Participation Plan</b>              |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2160                               | Setup Project Webpage  | 20 | 24-Jul-23 | 18-Aug-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Setup Project Webpage  |
| ContractNo_2120                               | Prepare & Submit Public Participation Plan                         | 30 | 24-Jul-23 | 01-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Public Participation Plan                         |
| ContractNo_2130                               | Review & Approve Public Participation Plan                         | 30 | 02-Sep-23 | 01-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Public Participation Plan                         |
| <b>Health &amp; Safety Plan</b>               |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2140                               | Prepare & Submit Health & Safety Plan                              | 20 | 24-Jul-23 | 18-Aug-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Health & Safety Plan                              |
| ContractNo_2150                               | Review & Approve Health & Safety Plan                              | 30 | 19-Aug-23 | 17-Sep-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Health & Safety Plan                              |
| <b>Environmental Submittals</b>               |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Groundwater &amp; Soil Management Plan</b> |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2520                               | Prepare & Submit Groundwater & Soil Management Plan                | 45 | 24-Jul-23 | 25-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Groundwater & Soil Management Plan                |
| ContractNo_2530                               | Review & Approve Groundwater & Soil Management Plan                | 30 | 26-Sep-23 | 25-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Groundwater & Soil Management Plan                |
| <b>Noise Control Plan</b>                     |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2540                               | Prepare & Submit Noise Control Plan                                | 30 | 24-Jul-23 | 01-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Noise Control Plan                                |
| ContractNo_2550                               | Review & Approve Noise Control Plan                                | 30 | 02-Sep-23 | 01-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Noise Control Plan                                |
| <b>Dust Control Plan</b>                      |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2560                               | Prepare & Submit Dust Control Plan                                 | 30 | 24-Jul-23 | 01-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Dust Control Plan                                 |
| ContractNo_2570                               | Review & Approve Dust Control Plan                                 | 30 | 02-Sep-23 | 01-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Dust Control Plan                                 |
| <b>Invasive Species Management Plan</b>       |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2600                               | Prepare & Submit Invasive Species Management Plan                  | 40 | 24-Jul-23 | 18-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Invasive Species Management Plan                  |
| ContractNo_2610                               | Review & Approve Invasive Species Management Plan                  | 30 | 19-Sep-23 | 18-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Invasive Species Management Plan                  |
| <b>Dredge Material Plan</b>                   |  |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2580                               | Prepare & Submit Dredge Material Plan                              | 90 | 24-Jul-23 | 29-Nov-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Prepare & Submit Dredge Material Plan                              |
| ContractNo_2590                               | Review & Approve Dredge Material Plan                              | 30 | 30-Nov-23 | 29-Dec-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  | Review & Approve Dredge Material Plan                              |

Remaining Level of Effort ◆ ◆ Milestone  
 Actual Level of Effort  
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Layout = CST01-Baseline-All, Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23, Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23 Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
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| Activity ID                              | Activity Name   | OD | Start     | Finish    | Calendar                    | Gantt Chart |    |    |    |      |    |    |    |      |    |    |    |
|--|---|----|-----------|-----------|-----------------------------|-------------|----|----|----|------|----|----|----|------|----|----|----|
|  |   |    |           |           |                             | 2023        |    |    |    | 2024 |    |    |    | 2025 |    |    |    |
|  |   |    |           |           |                             | Q1          | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 |
| <b>Design Submittals</b>                 |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |
| <b>Formal Bridge Sketch Plan</b>         |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_1690                          | Prepare Formal Bridge Sketch Plan                                   | 35 | 24-Jul-23 | 11-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_1930                          | Schedule & Conduct OTS Review - Formal Bridge Sketch Plan           | 2  | 12-Sep-23 | 13-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_1920                          | Submit Formal Bridge Sketch Plan                                    | 4  | 14-Sep-23 | 19-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2020                          | Review & Approve Formal Bridge Sketch Plan                          | 30 | 20-Sep-23 | 19-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_1700                          | Comment Resolution & Reissue Formal Bridge Sketch Plan              | 10 | 20-Oct-23 | 02-Nov-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| <b>First Structural Design - Bridge</b>  |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2670                          | Prepare First Structural Bridge                                     | 37 | 20-Oct-23 | 12-Dec-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2770                          | Schedule & Conduct OTS Review - First Structural Bridge             | 2  | 13-Dec-23 | 14-Dec-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2780                          | Finalize First Structural Bridge                                    | 2  | 15-Dec-23 | 18-Dec-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2790                          | Formal QC Review First Structural Bridge                            | 3  | 19-Dec-23 | 21-Dec-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2800                          | Submit First Structural Bridge                                      | 1  | 22-Dec-23 | 22-Dec-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2970                          | Review & Approve First Structural Bridge                            | 30 | 23-Dec-23 | 21-Jan-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2680                          | Comment Resolution & Reissue First Structural Bridge                | 10 | 22-Jan-24 | 02-Feb-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| <b>Second Structural Design - Bridge</b> |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2710                          | Prepare Second Structural Bridge                                    | 5  | 05-Feb-24 | 09-Feb-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2850                          | Schedule & Conduct OTS Review - Second Structural Bridge            | 2  | 12-Feb-24 | 13-Feb-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2860                          | Finalize Second Structural Bridge                                   | 2  | 14-Feb-24 | 15-Feb-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2870                          | Formal QC Review Second Structural Bridge                           | 3  | 16-Feb-24 | 21-Feb-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2880                          | Submit Second Structural Bridge                                     | 1  | 22-Feb-24 | 22-Feb-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2990                          | Review & Approve Second Structural Bridge                           | 30 | 23-Feb-24 | 23-Mar-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2720                          | Comment Resolution & Reissue Second Structural Bridge               | 10 | 25-Mar-24 | 05-Apr-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| <b>75% Design - Highway</b>              |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2690                          | Prepare 75% Design - Highway  | 75 | 05-Feb-24 | 21-May-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2810                          | Schedule & Conduct OTS Review - 75% Design - Highway                | 2  | 22-May-24 | 23-May-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2820                          | Finalize 75% Design - Highway                                       | 2  | 24-May-24 | 28-May-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2830                          | Formal QC Review 75% Design - Highway                               | 3  | 29-May-24 | 31-May-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2840                          | Submit 75% Design - Highway   | 1  | 03-Jun-24 | 03-Jun-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2980                          | Review & Approve 75% Design - Highway                               | 30 | 04-Jun-24 | 03-Jul-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2700                          | Comment Resolution & Reissue 75% Design - Highway                   | 10 | 05-Jul-24 | 18-Jul-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_3570                          | Submit 75% Design - Highway -R EV1 (15 Days if required)            | 0  | 19-Jul-24 | 19-Jul-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_3580                          | Review & Approve 75% Design - Highway -R EV-1 (30 Days if required) | 0  | 19-Jul-24 | 19-Jul-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |
| <b>100% Design - Highway</b>             |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2750                          | Prepare 100% Design - Highway                                       | 20 | 19-Jul-24 | 15-Aug-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2890                          | Schedule & Conduct OTS Review - 100% Design - Highway               | 2  | 16-Aug-24 | 19-Aug-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_2900                          | Finalize 100% Design - Highway                                      | 2  | 20-Aug-24 | 21-Aug-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |

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Layout = CST01-Baseline-All,    Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23,    Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23    Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
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| Activity ID   | Activity Name   | OD | Start     | Finish    | Calendar                    | Gantt Chart |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
|---|---|----|-----------|-----------|-----------------------------|-------------|----|----|----|------|----|----|----|------|----|----|----|--|--|--|--|--|--|
|   |   |    |           |           |                             | 2023        |    |    |    | 2024 |    |    |    | 2025 |    |    |    |  |  |  |  |  |  |
|   |   |    |           |           |                             | Q1          | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 |  |  |  |  |  |  |
| <b>Dewatering Plan</b>                              |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2380                                     | Prepare & Submit Dewatering Plan                              | 50 | 24-Jul-23 | 02-Oct-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2390                                     | Review & Approve Dewatering Plan                              | 30 | 03-Oct-23 | 01-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Demolition Plan -NB</b>                          |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2170                                     | Prepare & Submit Demolition Plan                              | 90 | 24-Jul-23 | 29-Nov-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2180                                     | Review & Approve Demolition Plan                              | 30 | 30-Nov-23 | 29-Dec-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Drilled Shaft Installation/Testing Procedure</b> |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2240                                     | Prepare & Submit Drilled Shaft Installation/Testing Procedure | 70 | 24-Jul-23 | 31-Oct-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2250                                     | Review & Approve Drilled Shaft Installation/Testing Procedure | 30 | 01-Nov-23 | 30-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Abutment Pile Intsallation Plan</b>              |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2260                                     | Prepare & Submit Abutment Pile Installation Plan              | 40 | 24-Jul-23 | 18-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2270                                     | Review & Approve Abutment Pile Installation Plan              | 30 | 19-Sep-23 | 18-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Erection Plan -Stage 1</b>                       |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2190                                     | Prepare & Submit Erection Plan -S tage 1                      | 60 | 24-Jul-23 | 17-Oct-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2200                                     | Review & Approve Erection Plan -S tage 1                      | 30 | 18-Oct-23 | 16-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Erection Plan -Stage 2</b>                       |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2280                                     | Prepare & Submit Erection Plan -S tage 2                      | 60 | 17-Nov-23 | 14-Feb-24 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2290                                     | Review & Approve Erection Plan -S tage 2                      | 30 | 15-Feb-24 | 15-Mar-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Erection Plan -Stage 3</b>                       |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2300                                     | Prepare & Submit Erection Plan -S tage 3                      | 60 | 24-Jul-23 | 17-Oct-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2310                                     | Review & Approve Erection Plan -S tage 3                      | 30 | 18-Oct-23 | 16-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Deck Placement Plan</b>                          |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2320                                     | Prepare & Submit Deck Placement Plan                          | 90 | 24-Jul-23 | 29-Nov-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2330                                     | Review & Approve Deck Placement Plan                          | 30 | 30-Nov-23 | 29-Dec-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Solid Pier Wall Construction Plan</b>            |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2340                                     | Prepare & Submit Solid Pier Wall Construction Plan            | 60 | 24-Jul-23 | 17-Oct-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2350                                     | Review & Approve Solid Pier Wall Construction Plan            | 30 | 18-Oct-23 | 16-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Formwork Plan</b>                                |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2360                                     | Prepare & Submit Formwork Plan                                | 60 | 24-Jul-23 | 17-Oct-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_2370                                     | Review & Approve Formwork Plan                                | 30 | 18-Oct-23 | 16-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Subcontractor Approvals</b>                      |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| Licensed Site Professional                          |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| Structure Cleaning Subcontractor                    |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| Electrical Subcontractor                            |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| Bridge Demolition Subcontractor                     |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Shop Drawings and Procurements</b>               |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Superstructure Rebar Design</b>                  |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3040                                     | Prepare & Submit Early Release Superstructure Rebar Design    | 45 | 24-Jul-23 | 25-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3050                                     | Review & Approve Early Release Superstructure Rebar Design    | 30 | 26-Sep-23 | 25-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Abutment Rebar</b>                               |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3010                                     | Prepare & Submit Substructure Rebar Shop Drawings             | 20 | 24-Jul-23 | 18-Aug-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |

- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work

Layout = CST01-Baseline-All, Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23, Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23 Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
|------|----------|---------|----------|
|      |          |         |          |
|      |          |         |          |
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| Activity ID  | Activity Name   | OD | Start     | Finish    | Calendar                    | Gantt Chart |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
|--|---|----|-----------|-----------|-----------------------------|-------------|----|----|----|------|----|----|----|------|----|----|----|--|--|--|--|--|--|
|  |   |    |           |           |                             | 2023        |    |    |    | 2024 |    |    |    | 2025 |    |    |    |  |  |  |  |  |  |
|  |   |    |           |           |                             | Q1          | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 |  |  |  |  |  |  |
| ContractNo_3020  | Review & Approve Substructure Rebar Shop Drawings           | 30 | 19-Aug-23 | 17-Sep-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3030  | Procure Substructure Rebar                                  | 30 | 18-Sep-23 | 17-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Drilled Shaft Rebar</b>                                     |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3510  | Prepare & Submit Drilled Shaft Rebar Shop Drawings          | 20 | 24-Jul-23 | 18-Aug-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3520  | Review & Approve Drilled Shaft Rebar Shop Drawings          | 30 | 19-Aug-23 | 17-Sep-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3530  | Procure Drilled Shaft Rebar                                 | 30 | 18-Sep-23 | 17-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Pier Substructure Rebar</b>                                 |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3540  | Prepare & Submit Pier Substructure Rebar Shop Drawings      | 20 | 24-Jul-23 | 18-Aug-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3550  | Review & Approve Pier Substructure Rebar Shop Drawings      | 30 | 19-Aug-23 | 17-Sep-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3560  | Procure Pier Substructure Rebar                             | 45 | 18-Sep-23 | 01-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Stay in Place Formwork</b>                                  |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3330  | Prepare & Submit Stay in Place Formwork                     | 20 | 24-Jul-23 | 18-Aug-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3340  | Review & Approve Stay in Place Formwork                     | 30 | 19-Aug-23 | 17-Sep-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3350  | Procure Stay in Place Formwork                              | 60 | 18-Sep-23 | 16-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Solid Pier Wall (Pier Bases) Design &amp; Shop Drawings</b> |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3130  | Prepare & Submit Solid Pier Wall (Pier Bases) Design        | 60 | 24-Jul-23 | 17-Oct-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3140  | Review & Approve Solid Pier Wall (Pier Bases) Design        | 30 | 18-Oct-23 | 16-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3070  | Prepare & Submit Solid Pier Wall (Pier Bases) Shop Drawings | 20 | 17-Nov-23 | 15-Dec-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3080  | Review & Approve Solid Pier Wall Shop Drawings              | 30 | 16-Dec-23 | 14-Jan-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3090  | Procure Solid Pier Wall Material                            | 70 | 15-Jan-24 | 24-Mar-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Drainage Structures</b>                                     |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3100  | Prepare & Submit Drainage Structures                        | 20 | 24-Jul-23 | 18-Aug-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3110  | Review & Approve Drainage Structures                        | 30 | 19-Aug-23 | 17-Sep-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3120  | Procure Drainage Structures                                 | 25 | 18-Sep-23 | 12-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>TL-5 Pier Protection Barrier</b>                            |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3160  | Prepare & Submit TL-5 Pier Protection Barrier               | 20 | 24-Jul-23 | 18-Aug-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3170  | Review & Approve TL-5 Pier Protection Barrier               | 30 | 19-Aug-23 | 17-Sep-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3180  | Procure TL-5 Pier Protection Barrier                        | 35 | 18-Sep-23 | 22-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Bridge Bearings</b>   |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3220  | Prepare & Submit Bridge Bearings Shop Drawings              | 30 | 24-Jul-23 | 01-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3230  | Review & Approve Bridge Bearings Shop Drawings              | 30 | 02-Sep-23 | 01-Oct-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3190  | Procure Bridge Bearings                                     | 60 | 02-Oct-23 | 30-Nov-23 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Superstructure Rebar</b>                                    |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3360  | Prepare & Submit Superstructure Rebar Shop Drawings         | 30 | 26-Oct-23 | 07-Dec-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3370  | Review & Approve Superstructure Rebar Shop Drawings         | 30 | 08-Dec-23 | 06-Jan-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3060  | Procure Superstructure Rebar                                | 60 | 07-Jan-24 | 06-Mar-24 | Cal03A -7 d/8hr/No Holiday: |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| <b>Bridge Scuppers</b>   |   |    |           |           |                             |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |
| ContractNo_3380  | Prepare & Submit Bridge Scupper Shop Drawings               | 30 | 24-Jul-23 | 01-Sep-23 | Cal01-5d/8hr/12hol          |             |    |    |    |      |    |    |    |      |    |    |    |  |  |  |  |  |  |

Remaining Level of Effort ◆ ◆ Milestone  
 Actual Level of Effort  
 Actual Work  
 Remaining Work  
 Critical Remaining Work

Layout = CST01-Baseline-All, Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23, Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23 Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
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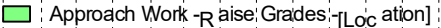
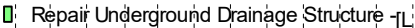
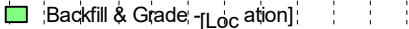
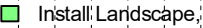


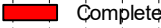
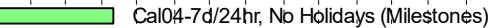
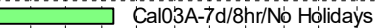

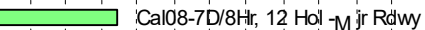

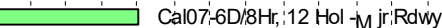
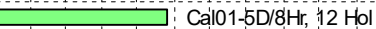
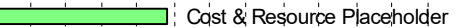
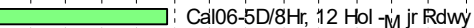
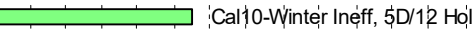
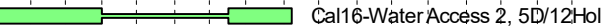
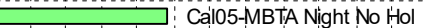
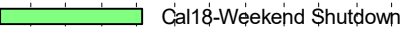

| Activity ID                        | Activity Name   | OD | Start     | Finish    | Calendar                          | Gantt Chart |    |    |    |      |    |    |    |      |    |    |    |   |
|------------------------------------|---|----|-----------|-----------|-----------------------------------|-------------|----|----|----|------|----|----|----|------|----|----|----|---|
|                                    |   |    |           |           |                                   | 2023        |    |    |    | 2024 |    |    |    | 2025 |    |    |    |   |
|                                    |   |    |           |           |                                   | Q1          | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 |   |
| ContractNo_U380                    | Utility 2 Task 1: Copy Activity Name from PUC Form  | 20 | 21-Dec-23 | 23-Jan-24 | Cal01-5d/8hr/12hol                |             |    |    |    | █    |    |    |    |      |    |    |    | █ Utility 2 Task 1: Copy Activity Name from PUC Form  |
| ContractNo_U390                    | Utility 2 Task 2: Copy Activity Name from PUC Form  | 5  | 23-Jan-24 | 30-Jan-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Utility 2 Task 2: Copy Activity Name from PUC Form  |
| <b>Utility 3 PUC Tasks</b>         |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| ContractNo_U400                    | Utility 3 Task 1: Copy Activity Name from PUC Form  | 20 | 30-Jan-24 | 28-Feb-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Utility 3 Task 1: Copy Activity Name from PUC Form  |
| ContractNo_U410                    | Utility 3 Task 2: Copy Activity Name from PUC Form  | 5  | 28-Feb-24 | 06-Mar-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Utility 3 Task 2: Copy Activity Name from PUC Form  |
| <b>Utility 4 PUC Tasks</b>         |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| ContractNo_U420                    | Utility 4 Task 1: Copy Activity Name from PUC Form  | 20 | 06-Mar-24 | 03-Apr-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Utility 4 Task 1: Copy Activity Name from PUC Form  |
| ContractNo_U430                    | Utility 4 Task 2: Copy Activity Name from PUC Form  | 5  | 03-Apr-24 | 10-Apr-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Utility 4 Task 2: Copy Activity Name from PUC Form  |
| <b>Utility Service Connections</b> |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| ContractNo_U440                    | Design-Builder Request WO# for Service Connection @ Location XXX (If Required)              | 5  | 02-Aug-23 | 08-Aug-23 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Design-Builder Request WO# for Service Connection @ Location XXX (If Required)              |
| ContractNo_U450                    | Utility Assigns WO# for Service Connection @ Location XXX (If Required)                     | 5  | 09-Aug-23 | 15-Aug-23 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Utility Assigns WO# for Service Connection @ Location XXX (If Required)                     |
| ContractNo_U460                    | Utility Completes Design and Requests Payment for WO# @ Location XXX (If Required)          | 20 | 15-Aug-23 | 04-Sep-23 | Cal04-7d/24Hr/No Hol (Milestones) |             |    |    |    |      |    |    |    |      |    |    |    | █ Utility Completes Design and Requests Payment for WO# @ Location XXX (If Required)          |
| ContractNo_U470                    | Design-Builder installs UG conduit @ Location XXX (If Required)                             | 5  | 05-Sep-23 | 11-Sep-23 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Design-Builder installs UG conduit @ Location XXX (If Required)                             |
| ContractNo_U480                    | Utility Performs Service Connection @ Location XXX (If Required)                            | 2  | 12-Sep-23 | 13-Sep-23 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Utility Performs Service Connection @ Location XXX (If Required)                            |
| <b>Construction</b>                |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| <b>General</b>                     |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| ContractNo_PCM1                    | Schedule Pre-Construction Meeting/Schedule Planning Session                                 | 7  | 24-Jul-23 | 01-Aug-23 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Schedule Pre-Construction Meeting/Schedule Planning Session                                 |
| ContractNo_PCM2                    | Conduct Pre-Construction Meeting/Schedule Planning Session                                  | 0  | 02-Aug-23 |           | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | ◆ Conduct Pre-Construction Meeting/Schedule Planning Session                                  |
| <b>Start-up</b>                    |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| ContractNo_C910                    | MassDOT Baseline Survey / Layout of Utility Pole Locations                                  | 20 | 03-Jan-23 | 31-Jan-23 | Cal01-5d/8hr/12hol                |             |    |    |    | █    |    |    |    |      |    |    |    | █ MassDOT Baseline Survey / Layout of Utility Pole Locations                                  |
| ContractNo_C070                    | Design-Builder Mobilize   | 20 | 02-Aug-23 | 29-Aug-23 | Cal01-5d/8hr/12hol                |             |    |    |    | █    |    |    |    |      |    |    |    | █ Design-Builder Mobilize   |
| ContractNo_C100                    | Establish Engineer's Field Office   | 20 | 02-Aug-23 | 29-Aug-23 | Cal01-5d/8hr/12hol                |             |    |    |    | █    |    |    |    |      |    |    |    | █ Establish Engineer's Field Office   |
| ContractNo_C370                    | Install Traffic Devices, RTTM System, Barriers, Signage                                     | 5  | 01-Nov-23 | 08-Nov-23 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Install Traffic Devices, RTTM System, Barriers, Signage                                     |
| ContractNo_C080                    | Install SWPPP Systems   | 5  | 08-Nov-23 | 15-Nov-23 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Install SWPPP Systems   |
| ContractNo_C900                    | Design-Builder Performs Utility Enabling Work (If Required)                                 | 5  | 08-Nov-23 | 15-Nov-23 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Design-Builder Performs Utility Enabling Work (If Required)                                 |
| <b>Stage 1</b>                     |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| <b>Step A</b>                      |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| ContractNo_C465                    | Install Temporary Shielding -[Location]   | 7  | 10-Apr-24 | 22-Apr-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Install Temporary Shielding -[Location]   |
| ContractNo_C480                    | Environmental Protection of Box Turtles   | 5  | 03-Jun-24 | 07-Jun-24 | Cal15-Wtr Acc 1-5d/12hol          |             |    |    |    |      |    |    |    |      |    |    |    | █ Environmental Protection of Box Turtles   |
| ContractNo_C475                    | Demo Existing Superstructure -[Location]  | 4  | 10-Jun-24 | 13-Jun-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Demo Existing Superstructure -[Location]  |
| ContractNo_C485                    | Install Water Control Measures -[Location]  | 6  | 10-Jun-24 | 17-Jun-24 | Cal15-Wtr Acc 1-5d/12hol          |             |    |    |    |      |    |    |    |      |    |    |    | █ Install Water Control Measures -[Location]  |
| ContractNo_C490                    | Excavate Abutments & Surrounding Area -[Location]   | 8  | 18-Jun-24 | 28-Jun-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Excavate Abutments & Surrounding Area -[Location]   |
| ContractNo_C505                    | Demo Existing Substructure -[Location]  | 6  | 01-Jul-24 | 09-Jul-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Demo Existing Substructure -[Location]  |
| ContractNo_C515                    | Set & Grout Precast Abutments -[Location] (NOTE: Ensure Grout Cure Period is accounted for) | 4  | 10-Jul-24 | 15-Jul-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Set & Grout Precast Abutments -[Location] (NOTE: Ensure Grout Cure Period is accounted for) |
| <b>Step B</b>                      |   |    |           |           |                                   |             |    |    |    |      |    |    |    |      |    |    |    |   |
| ContractNo_C525                    | Install Steel Beams -[Location]   | 6  | 16-Jul-24 | 23-Jul-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Install Steel Beams -[Location]   |
| ContractNo_C535                    | Install Precast Decks -[Location]   | 3  | 24-Jul-24 | 26-Jul-24 | Cal01-5d/8hr/12hol                |             |    |    |    |      |    |    |    |      |    |    |    | █ Install Precast Decks -[Location]   |






█ Remaining Level of Effort    ◆ Milestone  
█ Actual Level of Effort  
█ Actual Work  
█ Remaining Work  
█ Critical Remaining Work

Layout = CST01-Baseline-All,    Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23,    Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23    Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
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| Activity ID        | Activity Name                                     | OD  | Start     | Finish    | Calendar                    | Timeline  |    |    |    |      |    |    |    |      |    |    |    |
|--------------------|---|-----|-----------|-----------|-----------------------------|---|----|----|----|------|----|----|----|------|----|----|----|
|                    |   |     |           |           |                             | 2023  |    |    |    | 2024 |    |    |    | 2025 |    |    |    |
|                    |   |     |           |           |                             | Q1  | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 |
| <b>Step C</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_C190    | Approach Work -R aise Grades -[Location]          | 16  | 30-Sep-24 | 22-Oct-24 | Cal01-5d/8hr/12hol          |    |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_C200    | Repair Underground Drainage Structure -[Location] | 5   | 23-Oct-24 | 29-Oct-24 | Cal01-5d/8hr/12hol          |    |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_C320    | Backfill & Grade -[Location]                      | 12  | 30-Oct-24 | 15-Nov-24 | Cal01-5d/8hr/12hol          |    |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_C470    | Install Landscape, Sod, Etc. -[Location]          | 11  | 16-Apr-25 | 01-May-25 | Cal13-Planting 5d/12hol - E |    |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step D</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Stage 3</b>     |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step A</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step B</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step C</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step D</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Stage 4</b>     |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step A</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step B</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step C</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step D</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Stage 5</b>     |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step A</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step B</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step C</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Step D</b>      |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| <b>Close-Out</b>   |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_C360    | Prepare & Submit Remaining Project Documentation  | 20  | 24-Apr-25 | 21-May-25 | Cal01-5d/8hr/12hol          |   |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_C340    | MassDOT Inspection & Generate Punchlist           | 21  | 24-Apr-25 | 22-May-25 | Cal01-5d/8hr/12hol          |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_C330    | Complete Punchlist & Demobilize                   | 30  | 23-May-25 | 08-Jul-25 | Cal11-Wntr Shut 5d/12hol    |  |    |    |    |      |    |    |    |      |    |    |    |
| <b>Placeholder</b> |   |     |           |           |                             |   |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL04   | Cal04-7d/24hr, No Holidays (Milestones)           | 100 | 01-Jan-23 | 11-Apr-23 | Cal04-7d/24hr/No Hol (Mile  |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL03A  | Cal03A-7d/8hr/No Holidays                         | 100 | 01-Jan-23 | 10-Apr-23 | Cal03A-7d/8hr/No Holiday:   |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL03   | Cal03-7D/8Hr, 12 Hol                              | 100 | 02-Jan-23 | 13-Apr-23 | Cal03-7d/8hr/12hol          |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL08   | Cal08-7D/8Hr, 12 Hol -M jr Rdwy                   | 100 | 02-Jan-23 | 13-Apr-23 | Cal08-7d/8hr/12hol-Mjr Rdv  |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL02   | Cal02-6D/8Hr, 12 Hol                              | 100 | 03-Jan-23 | 02-May-23 | Cal02-6d/8hr/12hol          |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL07   | Cal07-6D/8Hr, 12 Hol -M jr Rdwy                   | 100 | 03-Jan-23 | 02-May-23 | Cal07-6d/8hr/12hol-MjrRdw   |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL01   | Cal01-5D/8Hr, 12 Hol                              | 100 | 03-Jan-23 | 25-May-23 | Cal01-5d/8hr/12hol          |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_C&RP    | Cost & Resource Placeholder                       | 100 | 03-Jan-23 | 25-May-23 | Cal01-5d/8hr/12hol          |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL06   | Cal06-5D/8Hr, 12 Hol -M jr Rdwy                   | 100 | 03-Jan-23 | 25-May-23 | Cal06-5d/8hr/12hol-Mjr Rdv  |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL10   | Cal10-Winter Ineff, 5D/12 Hol                     | 100 | 03-Jan-23 | 16-Jun-23 | Cal10-Wntr Ineff 5d/12hol   |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL16   | Cal16-Water Access 2, 5D/12Hol                    | 100 | 03-Jan-23 | 07-Sep-23 | Cal16-W tr Acc 2-5d/12hol   |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL05   | Cal05-MBTA Night No Hol                           | 100 | 03-Jan-23 | 25-May-23 | Cal05-MBTA Night/12hol      |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL18   | Cal18-Weekend Shutdown                            | 100 | 06-Jan-23 | 05-May-23 | Cal18 -Weekend Shutdown     |  |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL19   | Cal19-Saturdays Only (Advertise)                  | 100 | 07-Jan-23 | 30-Nov-24 | Cal19 -Saturday Only (Adv   |  |    |    |    |      |    |    |    |      |    |    |    |

 Remaining Level of Effort ◆ ◆ Milestone  
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 Actual Work  
 Remaining Work  
 Critical Remaining Work

Layout = CST01-Baseline-All, Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23, Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23 Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
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| Activity ID               | Activity Name                        | OD  | Start     | Finish    | Calendar                    | Gantt Chart                          |    |    |    |      |    |    |    |      |    |    |    |
|---------------------------|--------------------------------------|-----|-----------|-----------|-----------------------------|--------------------------------------|----|----|----|------|----|----|----|------|----|----|----|
|                           |                                      |     |           |           |                             | 2023                                 |    |    |    | 2024 |    |    |    | 2025 |    |    |    |
|                           |                                      |     |           |           |                             | Q1                                   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 |
| ContractNo_CAL11          | Cal11-Winter Shut 5D/8Hr, 12Hol      | 100 | 16-Mar-23 | 08-Aug-23 | Cal11-Wntr Shut 5d/12hol    | Cal11-Winter Shut 5D/8Hr, 12Hol      |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL14          | Cal14-Planting, 5D/12Hol - Deciduous | 100 | 21-Mar-23 | 28-Nov-23 | Cal14-Planting 5d/12hol - C | Cal14-Planting, 5D/12Hol - Deciduous |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL12          | Cal12-Paving, 5D/12 Hol              | 100 | 03-Apr-23 | 24-Aug-23 | Cal12-Paving 5d/12hol       | Cal12-Paving, 5D/12 Hol              |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL17          | Cal17 - Reclamation - 5d/12hol       | 100 | 18-Apr-23 | 08-Sep-23 | Cal17 - Reclamation - 5d/1  | Cal17 - Reclamation - 5d/12hol       |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL13          | Cal13-Planting, 5D/12Hol - Evergreen | 100 | 18-Apr-23 | 23-May-24 | Cal13-Planting 5d/12hol - E | Cal13-Planting, 5D/12Hol - Evergreen |    |    |    |      |    |    |    |      |    |    |    |
| ContractNo_CAL15          | Cal15-Water Access1, 5D/12Hol        | 100 | 01-Jun-23 | 25-Jun-24 | Cal15-Wtr Acc 1-5d/12hol    | Cal15-Water Access1, 5D/12Hol        |    |    |    |      |    |    |    |      |    |    |    |
| <b>Deleted Activities</b> |                                      |     |           |           |                             |                                      |    |    |    |      |    |    |    |      |    |    |    |

- Remaining Level of Effort
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone

Layout = CST01-Baseline-All, Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23, Run Date = 27-Jul-23, 09:50  
 Project Start = 01-Jan-23 Project Finish = 08-Jul-25

| Date | Revision | Checked | Approved |
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Prepared by MassDOT Highway

| Activity ID                                     | Activity Name                                      | OD  | Start      | Finish     | Calendar                    | CST-Phase | CST-SubPh | CST-Respoi | CST-Type | CST-Locatic | CST-Step | 2023 |    |    |    |    | 2024 |    |    |  |  |
|---|--|-----|------------|------------|-----------------------------|-----------|-----------|------------|----------|-------------|----------|------|----|----|----|----|------|----|----|--|--|
|   |  |     |            |            |                             |           |           |            |          |             |          | Q1   | Q2 | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 |  |  |
|   |  |     |            |            |                             |           |           |            |          |             |          | Q1   | Q2 | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 |  |  |
| <b>CSTv2.0</b>                                  |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Milestones</b>                               |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>General</b>                                  |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| ContractNo_NTP                                  | Issue Contractor NTP                               | 0   | 01-Jan-23  |            | Cal04-7d/24hr/No Hol (Mile: | MS        | GN        | DOT        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| ContractNo_AR01                                 | Access Restraint: Relocate Util before Bridge Demo | 0   | 02-Aug-23* |            | Cal04-7d/24hr/No Hol (Mile: | MS        | GN        | CON        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| ContractNo_MS04                                 | MS#04 -p erform Final Traffic Move                 | 0   |            | 31-Aug-24* | Cal04-7d/24hr/No Hol (Mile: | MS        | GN        | CON        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| ContractNo_MS03                                 | MS#03 -F ull Beneficial Use                        | 0   |            | 31-Aug-24* | Cal04-7d/24hr/No Hol (Mile: | MS        | GN        | CON        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| ContractNo_MS02                                 | MS#02 -S ubstantial Completion                     | 0   |            | 01-Oct-24* | Cal04-7d/24hr/No Hol (Mile: | MS        | GN        | CON        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| ContractNo_MS01                                 | MS#01 -C ontractor Field Completion                | 0   |            | 14-Nov-24* | Cal04-7d/24hr/No Hol (Mile: | MS        | GN        | CON        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| <b>Durations</b>                                |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| ContractNo_1030                                 | Construction Contract Duration (NTP to AR01)       | 214 | 01-Jan-23  | 02-Aug-23  | Cal04-7d/24hr/No Hol (Mile: | MS        | DU        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| ContractNo_1000                                 | Construction Contract Duration (NTP to FBU)        | 608 | 01-Jan-23  | 31-Aug-24  | Cal04-7d/24hr/No Hol (Mile: | MS        | DU        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| ContractNo_1010                                 | Construction Contract Duration (NTP to SC)         | 640 | 01-Jan-23  | 01-Oct-24  | Cal04-7d/24hr/No Hol (Mile: | MS        | DU        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| ContractNo_1020                                 | Construction Contract Duration (NTP to CFC)        | 684 | 01-Jan-23  | 14-Nov-24  | Cal04-7d/24hr/No Hol (Mile: | MS        | DU        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| <b>Project Wide</b>                             |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Preconstruction</b>                          |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| ContractNo_PreCon                               | Pre-Construction Meeting                           | 1   | 03-Jan-23  | 03-Jan-23  | Cal01-5d/8hr/12hol          | PC        | GN        | DOT        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  |
| <b>Permitting</b>                               |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P300                                 | Permit Coordination, Apply, Obtain                 | 20  | 03-Jan-23  | 31-Jan-23  | Cal01-5d/8hr/12hol          | PC        | PE        | CON        | PRO      |             | NS       |      |    |    |    |    |      |    |    |  |  |
| <b>Submittals &amp; Procurements</b>            |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Subsection 8.01: Subcontractor Approvals</b> |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Licensed Site Professional</b>               |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Structure Cleaning Subcontractor</b>         |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Electrical Subcontractor</b>                 |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Bridge Demolition Subcontractor</b>          |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Item 100: Schedule of Operations</b>         |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P740                                 | Prepare & Submit -Initial Baseline Schedule        | 10  | 01-Jan-23  | 10-Jan-23  | Cal03A-7d/8hr/No Holidays   | PC        | PR        | CON        | PRO      |             | BLS      |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P770                                 | Prepare & Submit -S cheduler Resume                | 5   | 03-Jan-23  | 09-Jan-23  | Cal01-5d/8hr/12hol          | PC        | PR        | CON        | PRO      |             | BLS      |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P790                                 | Review & Approve -S cheduler Resume                | 5   | 10-Jan-23  | 14-Jan-23  | Cal03A-7d/8hr/No Holidays   | PC        | PR        | DOT        | PRO      |             | BLS      |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P750                                 | Review & Respond -Initial Baseline Schedule        | 10  | 11-Jan-23  | 20-Jan-23  | Cal03A-7d/8hr/No Holidays   | PC        | PR        | DOT        | PRO      |             | BLS      |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P760                                 | Prepare & Submit -F inal Baseline Schedule         | 10  | 21-Jan-23  | 30-Jan-23  | Cal03-7d/8hr/12hol          | PC        | PR        | CON        | PRO      |             | BLS      |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P780                                 | Review & Approve -F inal Baseline Schedule         | 10  | 31-Jan-23  | 09-Feb-23  | Cal03A-7d/8hr/No Holidays   | PC        | PR        | DOT        | PRO      |             | BLS      |      |    |    |    |    |      |    |    |  |  |
| <b>Item 114.1: Demolition of Superstructure</b> |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P620                                 | Prepare & Submit -D emolition Plan                 | 25  | 03-Jan-23  | 07-Feb-23  | Cal01-5d/8hr/12hol          | PC        | PR        | CON        | PRO      |             | DEM      |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P630                                 | Review & Approve -D emolition Plan                 | 30  | 08-Feb-23  | 09-Mar-23  | Cal03A-7d/8hr/No Holidays   | PC        | PR        | DOT        | PRO      |             | DEM      |      |    |    |    |    |      |    |    |  |  |
| <b>Item 119.5: Construction Noise Control</b>   |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| <b>Item 149.2: Public Outreach</b>              |  |     |            |            |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |
| ContractNo_P1060                                | Prepare & Submit -p ublic Outreach Plan            | 10  | 01-Jan-23  | 10-Jan-23  | Cal03A-7d/8hr/No Holidays   | PC        | PR        | CON        | PRO      |             | NS       |      |    |    |    |    |      |    |    |  |  |

█ Remaining Level of Effort    ◆ Milestone  
█ Actual Level of Effort  
█ Actual Work  
█ Remaining Work  
█ Critical Remaining Work

Layout = CST01-Baseline-All,    Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23,    Run Date = 27-Jul-23, 09:49  
 Project Start = 01-Jan-23    Project Finish = 14-Nov-24

| Date | Revision | Checked | Approved |
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| Activity ID   | Activity Name   | OD | Start     | Finish    | Calendar                  | CST-Phase | CST-SubPh | CST-Respoi | CST-Type | CST-Locatic | CST-Step | 2023         |   |    |    |    | 2024 |    |    |    |    |    |    |
|---|---|----|-----------|-----------|---------------------------|-----------|-----------|------------|----------|-------------|----------|--------------|---|----|----|----|------|----|----|----|----|----|----|
|   |   |    |           |           |                           |           |           |            |          |             |          | Q1           | Q2  | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
|   |   |    |           |           |                           |           |           |            |          |             |          | Progress Bar |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P1070  | Review & Approve -p ublic Outreach Plan               | 30 | 11-Jan-23 | 09-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | NS       |              | Review & Approve -p ublic Outreach Plan               |    |    |    |      |    |    |    |    |    |    |
| <b>Item 180.01: Environmental Health &amp; Safety Program</b>             |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P130   | Prepare & Submit -E nvironmental Health & Safety Plan | 15 | 03-Jan-23 | 24-Jan-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | HSP      |              | Prepare & Submit -E nvironmental Health & Safety Plan |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P140   | Review & Approve -E nvironmental Health & Safety Plan | 30 | 25-Jan-23 | 23-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | HSP      |              | Review & Approve -E nvironmental Health & Safety Plan |    |    |    |      |    |    |    |    |    |    |
| <b>Items 220.x: Drainage Structures</b>                                   |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P550   | Prepare & Submit -S hop Drawings Drainage Structures  | 10 | 03-Jan-23 | 17-Jan-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | DRA      |              | Prepare & Submit -S hop Drawings Drainage Structures  |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P560   | Review & Approve -S hop Drawings Drainage Structures  | 30 | 18-Jan-23 | 16-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | DRA      |              | Review & Approve -S hop Drawings Drainage Structures  |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P580   | Fabrication & Delivery -D rainage Structures          | 60 | 17-Feb-23 | 15-May-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | DRA      |              | Fabrication & Delivery -D rainage Structures          |    |    |    |      |    |    |    |    |    |    |
| <b>Item 701.47: Winter Concrete Plan</b>                                  |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P720   | Prepare & Submit -W inter Concrete Plan               | 15 | 03-Jan-23 | 24-Jan-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | WNT      |              | Prepare & Submit -W inter Concrete Plan               |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P730   | Review & Approve -W inter Concrete Plan               | 30 | 25-Jan-23 | 23-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | WNT      |              | Review & Approve -W inter Concrete Plan               |    |    |    |      |    |    |    |    |    |    |
| <b>Item 701.61: Contractor Quality Control Plan</b>                       |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P1080  | Prepare & Submit -C ontractor Quality Control Plan    | 15 | 03-Jan-23 | 24-Jan-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | NS       |              | Prepare & Submit -C ontractor Quality Control Plan    |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P1090  | Review & Approve -C ontractor Quality Control Plan    | 30 | 25-Jan-23 | 23-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | NS       |              | Review & Approve -C ontractor Quality Control Plan    |    |    |    |      |    |    |    |    |    |    |
| <b>Item 756: Stormwater Water Protection Plan</b>                         |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P160   | Prepare & Submit -S WPPP                              | 15 | 03-Jan-23 | 24-Jan-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | SWP      |              | Prepare & Submit -S WPPP                              |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P170   | Review & Approve -S WPPP                              | 30 | 25-Jan-23 | 23-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | SWP      |              | Review & Approve -S WPPP                              |    |    |    |      |    |    |    |    |    |    |
| <b>Items 850.x: Traffic Control for Construction and Maint Operations</b> |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P190   | Prepare & Submit -T raffic Control Plan               | 15 | 03-Jan-23 | 24-Jan-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | TCP      |              | Prepare & Submit -T raffic Control Plan               |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P200   | Review & Approve -T raffic Control Plan               | 30 | 25-Jan-23 | 23-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | TCP      |              | Review & Approve -T raffic Control Plan               |    |    |    |      |    |    |    |    |    |    |
| <b>Item 991.1: Control of Water</b>                                       |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P640   | Prepare & Submit -W ater Control Plan                 | 25 | 03-Jan-23 | 07-Feb-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | WCP      |              | Prepare & Submit -W ater Control Plan                 |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P650   | Review & Approve -W ater Control Plan                 | 30 | 08-Feb-23 | 09-Mar-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | WCP      |              | Review & Approve -W ater Control Plan                 |    |    |    |      |    |    |    |    |    |    |
| <b>Item 995.01: Bridge</b>  |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| <b>Steel Erection Procedure</b>   |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P600   | Prepare & Submit -S teel Erection Procedure           | 25 | 03-Jan-23 | 07-Feb-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | SEP      |              | Prepare & Submit -S teel Erection Procedure           |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P610   | Review & Approve -S teel Erection Procedure           | 30 | 08-Feb-23 | 09-Mar-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | SEP      |              | Review & Approve -S teel Erection Procedure           |    |    |    |      |    |    |    |    |    |    |
| <b>Subitem 901: 4000 PSI 1.5 In., 565 Cement Concrete</b>                 |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P100   | Prepare & Submit -C oncrete Mix Design                | 25 | 03-Jan-23 | 07-Feb-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | CMD      |              | Prepare & Submit -C oncrete Mix Design                |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P110   | Review & Approve -C oncrete Mix Design                | 30 | 08-Feb-23 | 09-Mar-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | CMD      |              | Review & Approve -C oncrete Mix Design                |    |    |    |      |    |    |    |    |    |    |
| <b>Subitem 960.01: Structural Steel -Coated Steel</b>                     |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P450   | Prepare & Submit -S hop Drawings Steel Beams          | 10 | 03-Jan-23 | 17-Jan-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | STL      |              | Prepare & Submit -S hop Drawings Steel Beams          |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P460   | Review & Approve -S hop Drawings Steel Beams          | 30 | 18-Jan-23 | 16-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | STL      |              | Review & Approve -S hop Drawings Steel Beams          |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P480   | Fabrication & Delivery -S teel Beams                  | 90 | 17-Feb-23 | 28-Jun-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | STL      |              | Fabrication & Delivery -S teel Beams                  |    |    |    |      |    |    |    |    |    |    |
| <b>Subitem 975.1: Metal Bridge Railing (3 Rail), Steel (Type S3-TL4)</b>  |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P690   | Prepare & Submit -S hop Drawings Bridge Rail          | 10 | 03-Jan-23 | 17-Jan-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | BRR      |              | Prepare & Submit -S hop Drawings Bridge Rail          |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P700   | Review & Approve -S hop Drawings Bridge Rail          | 30 | 18-Jan-23 | 16-Feb-23 | Cal03A-7d/8hr/No Holidays | PC        | PR        | DOT        | PRO      |             | BRR      |              | Review & Approve -S hop Drawings Bridge Rail          |    |    |    |      |    |    |    |    |    |    |
| ContractNo_P710   | Fabrication & Delivery -B ridge Rail                  | 90 | 17-Feb-23 | 28-Jun-23 | Cal01-5d/8hr/12hol        | PC        | PR        | CON        | PRO      |             | BRR      |              | Fabrication & Delivery -B ridge Rail                  |    |    |    |      |    |    |    |    |    |    |
| <b>Precast Decks</b>  |   |    |           |           |                           |           |           |            |          |             |          |              |   |    |    |    |      |    |    |    |    |    |    |

Remaining Level of Effort    ◆ Milestone  
 Actual Level of Effort  
 Actual Work  
 Remaining Work  
 Critical Remaining Work

Layout = CST01-Baseline-All,    Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23,    Run Date = 27-Jul-23, 09:49  
 Project Start = 01-Jan-23    Project Finish = 14-Nov-24

| Date | Revision | Checked | Approved |
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| Activity ID                                       | Activity Name  | OD | Start     | Finish    | Calendar                    | CST-Phase | CST-SubPh | CST-Respoi | CST-Type | CST-Locatic | CST-Step | 2023            |   |    |           |           | 2024               |    |    |     |     |    |     |   |  |
|---|--|----|-----------|-----------|-----------------------------|-----------|-----------|------------|----------|-------------|----------|-----------------|---|----|-----------|-----------|--------------------|----|----|-----|-----|----|-----|---|--|
|   |  |    |           |           |                             |           |           |            |          |             |          | Q1              | Q2  | Q3 | Q4        | Q1        | Q2                 | Q3 | Q4 | Q1  | Q2  | Q3 | Q4  |   |  |
|   |  |    |           |           |                             |           |           |            |          |             |          | ContractNo_P660 | Prepare & Submit -s hop Drawings Precast Deck | 20 | 03-Jan-23 | 31-Jan-23 | Cal01-5d/8hr/12hol | PC | PR | CON | PRO |    | PCD | █ |  |
| ContractNo_P670                                   | Review & Approve -s hop Drawings Precast Deck  | 30 | 01-Feb-23 | 02-Mar-23 | Cal03A-7d/8hr/No Holidays   | PC        | PR        | DOT        | PRO      |             | PCD      | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_P680                                   | Fabrication & Delivery -p recast Deck  | 90 | 03-Mar-23 | 12-Jul-23 | Cal01-5d/8hr/12hol          | PC        | PR        | CON        | PRO      |             | PCD      | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Temporary Pavement Design</b>                  |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_P220                                   | Prepare & Submit -t emporary Pavement Design   | 15 | 03-Jan-23 | 24-Jan-23 | Cal01-5d/8hr/12hol          | PC        | PR        | CON        | PRO      |             | TPD      | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_P230                                   | Review & Approve -t emporary Pavement Design   | 30 | 25-Jan-23 | 23-Feb-23 | Cal03A-7d/8hr/No Holidays   | PC        | PR        | DOT        | PRO      |             | TPD      | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility</b>                                    |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility Relocation &amp; Coordination Plan</b> |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_P250                                   | Prepare & Submit -e arly Utilitiy Relocation Request\Coordination Plan                   | 14 | 01-Jan-23 | 14-Jan-23 | Cal03A-7d/8hr/No Holidays   | PC        | PR        | CON        | PRO      |             | URP      | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_P260                                   | Review & Approve -e arly Utilitiy Relocation Request\Coordination Plan                   | 7  | 15-Jan-23 | 21-Jan-23 | Cal03A-7d/8hr/No Holidays   | PC        | PR        | DOT        | PRO      |             | URP      | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility Notifications &amp; Meetings</b>       |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U100                                   | Coordinate/Mobilization Period -R elocation w/ Utility Company -tj nsert Utility 1 Name] | 30 | 22-Jan-23 | 20-Feb-23 | Cal03A-7d/8hr/No Holidays   | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U350                                   | Coordinate/Mobilization Period -R elocation w/ Utility Company -tj nsert Utility 2 Name] | 30 | 22-Jan-23 | 20-Feb-23 | Cal03A-7d/8hr/No Holidays   | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U360                                   | Coordinate/Mobilization Period -R elocation w/ Utility Company -tj nsert Utility 3 Name] | 30 | 22-Jan-23 | 20-Feb-23 | Cal03A-7d/8hr/No Holidays   | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U370                                   | Coordinate/Mobilization Period -R elocation w/ Utility Company -tj nsert Utility 4 Name] | 30 | 22-Jan-23 | 20-Feb-23 | Cal03A-7d/8hr/No Holidays   | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility Relocation</b>                         |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility 1 PUC Tasks</b>                        |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U340                                   | Utility 1 Task 1: Copy Activity Name from PUC Form                                       | 20 | 10-Mar-23 | 06-Apr-23 | Cal01-5d/8hr/12hol          | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U120                                   | Utility 1 Task 2: Copy Activity Name from PUC Form                                       | 5  | 07-Apr-23 | 13-Apr-23 | Cal01-5d/8hr/12hol          | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility 2 PUC Tasks</b>                        |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U380                                   | Utility 2 Task 1: Copy Activity Name from PUC Form                                       | 20 | 14-Apr-23 | 12-May-23 | Cal01-5d/8hr/12hol          | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U390                                   | Utility 2 Task 2: Copy Activity Name from PUC Form                                       | 5  | 15-May-23 | 19-May-23 | Cal01-5d/8hr/12hol          | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility 3 PUC Tasks</b>                        |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U400                                   | Utility 3 Task 1: Copy Activity Name from PUC Form                                       | 20 | 22-May-23 | 20-Jun-23 | Cal01-5d/8hr/12hol          | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U410                                   | Utility 3 Task 2: Copy Activity Name from PUC Form                                       | 5  | 21-Jun-23 | 27-Jun-23 | Cal01-5d/8hr/12hol          | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility 4 PUC Tasks</b>                        |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U420                                   | Utility 4 Task 1: Copy Activity Name from PUC Form                                       | 20 | 28-Jun-23 | 26-Jul-23 | Cal01-5d/8hr/12hol          | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U430                                   | Utility 4 Task 2: Copy Activity Name from PUC Form                                       | 5  | 27-Jul-23 | 02-Aug-23 | Cal01-5d/8hr/12hol          | UR        | GN        | CON        | UTIL     |             | NS       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Utility Service Connections</b>                |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U440                                   | Contractor Request WO# for Service Connection @ Location XXX (If Required)               | 5  | 04-Jan-23 | 10-Jan-23 | Cal01-5d/8hr/12hol          | UR        | P03       | CON        | UTIL     | Quadrant 3  | SD       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U450                                   | Utility Assigns WO# for Service Connection @ Location XXX (If Required)                  | 5  | 11-Jan-23 | 18-Jan-23 | Cal01-5d/8hr/12hol          | UR        | P03       | UKE        | UTIL     | Quadrant    | SD       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U460                                   | Utility Completes Design and Requests payment for Service Connection WO# (If Required)   | 20 | 18-Jan-23 | 07-Feb-23 | Cal04-7d/24hr/No Hol (Mile: | UR        | P03       | UKE        | UTIL     | Quadrant    | SD       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U470                                   | Contractor installs UG conduit for Service Connection @ Location XXX (If Required)       | 5  | 03-Mar-23 | 09-Mar-23 | Cal01-5d/8hr/12hol          | UR        | P03       | CON        | UTIL     | Quadrant    | SD       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| ContractNo_U480                                   | Utility performs Service Connection @ Location XXX (If Required)                         | 2  | 10-Mar-23 | 13-Mar-23 | Cal01-5d/8hr/12hol          | UR        | P03       | UKE        |          | Quadrant    | SD       | █               |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Construction</b>                               |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>General</b>                                    |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |
| <b>Start-up</b>                                   |  |    |           |           |                             |           |           |            |          |             |          |                 |   |    |           |           |                    |    |    |     |     |    |     |   |  |

█ Remaining Level of Effort    ◆ Milestone  
█ Actual Level of Effort  
█ Actual Work  
█ Remaining Work  
█ Critical Remaining Work

Layout = CST01-Baseline-All,    Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23,    Run Date = 27-Jul-23, 09:49  
 Project Start = 01-Jan-23    Project Finish = 14-Nov-24

| Date | Revision | Checked | Approved |
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| Activity ID     | Activity Name   | OD | Start     | Finish    | Calendar                     | CST-Phase | CST-SubPh | CST-Respon | CST-Type | CST-Location | CST-Step | 2023 2024 |   |    |    |      |    |    |    |    |  |  |  |
|-----------------|---|----|-----------|-----------|------------------------------|-----------|-----------|------------|----------|--------------|----------|-----------|---|----|----|------|----|----|----|----|--|--|--|
|                 |   |    |           |           |                              |           |           |            |          |              |          | 2023      |   |    |    | 2024 |    |    |    | 25 |  |  |  |
|                 |   |    |           |           |                              |           |           |            |          |              |          | Q1        | Q2  | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1 |  |  |  |
| ContractNo_C070 | Contractor Mobilize   | 20 | 04-Jan-23 | 01-Feb-23 | Cal01-5d/8hr/12hol           | CN        | GN        | CON        | NA       |              | NS       | █         | Contractor Mobilize   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C100 | Establish Engineer's Field Office   | 20 | 04-Jan-23 | 01-Feb-23 | Cal01-5d/8hr/12hol           | CN        | GN        | CON        | NA       |              | NS       | █         | Establish Engineer's Field Office   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C910 | MassDOT Baseline Survey / Layout of Utility Pole Locations                                | 20 | 04-Jan-23 | 01-Feb-23 | Cal01-5d/8hr/12hol           | CN        | GN        | CON        | NA       |              | NS       | █         | MassDOT Baseline Survey / Layout of Utility Pole Locations                      |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C370 | Install Traffic Devices, Barriers, Signage  | 5  | 24-Feb-23 | 02-Mar-23 | Cal01-5d/8hr/12hol           | CN        | GN        | CON        | SITE     |              | NS       | █         | Install Traffic Devices, Barriers, Signage                                      |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C080 | Install SWPPP Systems   | 5  | 03-Mar-23 | 09-Mar-23 | Cal01-5d/8hr/12hol           | CN        | GN        | CON        | SITE     |              | NS       | █         | Install SWPPP Systems   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C900 | Contractor Performs Utility Enabling Work (If Required)                                   | 5  | 03-Mar-23 | 09-Mar-23 | Cal01-5d/8hr/12hol           | CN        | GN        | CON        | SITE     |              | NS       | █         | Contractor Performs Utility Enabling Work (If Required)                         |    |    |      |    |    |    |    |  |  |  |
| <b>Stage 1</b>  |   |    |           |           |                              |           |           |            |          |              |          |           |   |    |    |      |    |    |    |    |  |  |  |
| <b>Step A</b>   |   |    |           |           |                              |           |           |            |          |              |          |           |   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C480 | Environmental Protection of Box Turtles -p 1SA NB   | 5  | 03-Aug-23 | 09-Aug-23 | Cal15-Wtr Acc 1-5d/12hol     | CN        | P01       | CON        | EART     |              | SA       | █         | Environmental Protection of Box Turtles   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C465 | Install Temporary Shielding -p 1SA NB   | 7  | 03-Aug-23 | 11-Aug-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | DEMO     |              | SA       | █         | Install Temporary Shielding -p 1SA NB   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C485 | Install Water Control Measures -p 1SA NB  | 6  | 10-Aug-23 | 17-Aug-23 | Cal15-Wtr Acc 1-5d/12hol     | CN        | P01       | CON        | WATE     |              | SA       | █         | Install Water Control Measures -p 1SA NB  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C475 | Demo Existing Superstructure -p 1SA NB  | 4  | 14-Aug-23 | 17-Aug-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | DEMO     |              | SA       | █         | Demo Existing Superstructure -p 1SA NB  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C490 | Excavate Abutments & Surrounding Area -p 1SA NB   | 8  | 18-Aug-23 | 29-Aug-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | EART     |              | SA       | █         | Excavate Abutments & Surrounding Area   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C505 | Demo Existing Substructure -p 1SA NB  | 6  | 30-Aug-23 | 07-Sep-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | DEMO     |              | SA       | █         | Demo Existing Substructure -p 1SA NB  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C515 | Set & Grout Precast Abutments -p 1SA NB (NOTE: Ensure Grout Cure Period is accounted for) | 4  | 08-Sep-23 | 13-Sep-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | CONC     |              | SA       | █         | Set & Grout Precast Abutments -p 1SA NB   |    |    |      |    |    |    |    |  |  |  |
| <b>Step B</b>   |   |    |           |           |                              |           |           |            |          |              |          |           |   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C525 | Install Steel Beams -p1 SB NB   | 6  | 13-Sep-23 | 21-Sep-23 | Standard 5 Day Workweek      | CN        | P01       | CON        | STEE     |              | SB       | █         | Install Steel Beams -p1 SB NB   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C535 | Install Precast Decks -p 1SB NB   | 3  | 22-Sep-23 | 26-Sep-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | CONC     |              | SB       | █         | Install Precast Decks -p 1SB NB   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C920 | Postension Precast Decks -p 1SB NB  | 1  | 27-Sep-23 | 27-Sep-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | CONC     |              | SB       | █         | Postension Precast Decks -p 1SB NB  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C545 | Grout Precast Decks -p 1SB NB (NOTE: Ensure Grout Cure Period is accounted for)           | 3  | 28-Sep-23 | 02-Oct-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | CONC     |              | SB       | █         | Grout Precast Decks -p 1SB NB (NOTE: Ensure Grout Cure Period is accounted for) |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C555 | F/R/Pour Sidewalk Placement 1 -p 1SB NB   | 4  | 03-Oct-23 | 06-Oct-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | CONC     |              | SB       | █         | F/R/Pour Sidewalk Placement 1 -p 1SB NB   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C930 | 72 Hour Placement Cure Period for Sidewalks -p 1SB NB                                     | 3  | 06-Oct-23 | 09-Oct-23 | Cal04-7d/24hr/No Hol (Mile:) | CN        | P01       | CON        | CONC     |              | SB       | █         | 72 Hour Placement Cure Period for Sidewalks -p 1SB NB                           |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C940 | Sidewalk Placement 2 -p 1SB NB  | 2  | 10-Oct-23 | 11-Oct-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | CONC     |              | SB       | █         | Sidewalk Placement 2 -p 1SB NB  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C950 | Full Cure Period for Sidewalks -p 1SB NB  | 14 | 11-Oct-23 | 25-Oct-23 | Cal04-7d/24hr/No Hol (Mile:) | CN        | P01       | CON        | CONC     |              | SB       | █         | Full Cure Period for Sidewalks -p 1SB NB  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C575 | Install waterproofing -p 1SB NB   | 3  | 26-Oct-23 | 30-Oct-23 | Cal12-Paving 5d/12hol        | CN        | P01       | CON        | CONC     |              | SB       | █         | Install waterproofing -p 1SB NB   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C580 | Place Protective Course Pavement -p 1SB NB  | 1  | 31-Oct-23 | 31-Oct-23 | Cal12-Paving 5d/12hol        | CN        | P01       | CON        | SITE     |              | SB       | █         | Place Protective Course Pavement  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C590 | Install Pavement Markers, Sign and Stripe -p 1SB NB                                       | 2  | 01-Nov-23 | 02-Nov-23 | Cal12-Paving 5d/12hol        | CN        | P01       | CON        | SITE     |              | SB       | █         | Install Pavement Markers, Sign and Stripe                                       |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C565 | Install Railings -p 1SB NB  | 4  | 01-Nov-23 | 06-Nov-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | STEE     |              | SB       | █         | Install Railings -p 1SB NB  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C585 | Complete Phase 1 -p 1SB NB  | 0  |           | 06-Nov-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | NA       |              | SB       | ◆         | Complete Phase 1 -p 1SB NB  |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C595 | Set Jersey Barriers & Signage -p 1SB NB   | 2  | 07-Nov-23 | 08-Nov-23 | Cal01-5d/8hr/12hol           | CN        | P01       | CON        | SITE     |              | SB       | █         | Set Jersey Barriers & Signage -p 1SB NB   |    |    |      |    |    |    |    |  |  |  |
| <b>Step C</b>   |   |    |           |           |                              |           |           |            |          |              |          |           |   |    |    |      |    |    |    |    |  |  |  |
| <b>Step D</b>   |   |    |           |           |                              |           |           |            |          |              |          |           |   |    |    |      |    |    |    |    |  |  |  |
| <b>Stage 2</b>  |   |    |           |           |                              |           |           |            |          |              |          |           |   |    |    |      |    |    |    |    |  |  |  |
| <b>Step A</b>   |   |    |           |           |                              |           |           |            |          |              |          |           |   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C750 | Traffic Switch from Phase I   | 2  | 09-Nov-23 | 10-Nov-23 | Cal01-5d/8hr/12hol           | CN        | P02       | CON        | SITE     |              | SA       | █         | Traffic Switch from Phase I   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C765 | Install Temporary Shielding -p 2SA SB   | 5  | 13-Nov-23 | 17-Nov-23 | Cal01-5d/8hr/12hol           | CN        | P02       | CON        | DEMO     |              | SA       | █         | Install Temporary Shielding -p 2SA SB   |    |    |      |    |    |    |    |  |  |  |
| ContractNo_C755 | Install Water Control Measures -p 2SA SB  | 6  | 03-Jun-24 | 10-Jun-24 | Cal15-Wtr Acc 1-5d/12hol     | CN        | P02       | CON        | WATE     |              | SA       | █         | Install Water Control Measures -p 2SA SB  |    |    |      |    |    |    |    |  |  |  |

█ Remaining Level of Effort    ◆ Milestone  
█ Actual Level of Effort  
█ Actual Work  
█ Remaining Work  
█ Critical Remaining Work

Layout = CST01-Baseline-All, Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23, Run Date = 27-Jul-23, 09:49  
 Project Start = 01-Jan-23 Project Finish = 14-Nov-24

| Date | Revision | Checked | Approved |
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| Activity ID        | Activity Name  | OD  | Start     | Finish    | Calendar                    | CST-Phase | CST-SubPh | CST-Respoi | CST-Type | CST-Locatic | CST-Step | 2023 |    |    |    |    | 2024 |    |    |  |  |   |
|--------------------|--|-----|-----------|-----------|-----------------------------|-----------|-----------|------------|----------|-------------|----------|------|----|----|----|----|------|----|----|--|--|---|
|                    |  |     |           |           |                             |           |           |            |          |             |          | Q1   | Q2 | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 |  |  |   |
|                    |  |     |           |           |                             |           |           |            |          |             |          | Q1   | Q2 | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 |  |  |   |
| ContractNo_C360    | Prepare & Submit Remaining Project Documentation     | 20  | 03-Sep-24 | 30-Sep-24 | Cal01-5d/8hr/12hol          | CL        | GN        | CON        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Prepare   |
| ContractNo_C340    | MassDOT Inspection & Generate Punchlist              | 21  | 03-Sep-24 | 01-Oct-24 | Cal01-5d/8hr/12hol          | CL        | GN        | DOT        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | MassDOT   |
| ContractNo_C330    | Complete Punchlist & Demobilize                      | 30  | 02-Oct-24 | 14-Nov-24 | Cal11-Wntr Shut 5d/12hol    | CL        | GN        | CON        | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Com   |
| <b>Placeholder</b> |  |     |           |           |                             |           |           |            |          |             |          |      |    |    |    |    |      |    |    |  |  |   |
| ContractNo_CAL04   | Cal04-7D/8Hr, No Hol (milestones)                    | 100 | 01-Jan-23 | 10-Apr-23 | Cal03A-7d/8hr/No Holidays   | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal04-7D/8Hr, No Hol (milestones)               |
| ContractNo_CAL03A  | Cal03A-7d/8hr/No Holidays                            | 100 | 01-Jan-23 | 10-Apr-23 | Cal03A-7d/8hr/No Holidays   | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal03A-7d/8hr/No Holidays                       |
| ContractNo_CAL03   | Cal03-7D/8Hr, 12 Hol                                 | 100 | 02-Jan-23 | 13-Apr-23 | Cal03-7d/8hr/12hol          | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal03-7D/8Hr, 12 Hol                            |
| ContractNo_CAL08   | Cal08-7D/8Hr, 12 Hol - Mjr Rdwy                      | 100 | 02-Jan-23 | 13-Apr-23 | Cal08-7d/8hr/12hol-Mjr Rdv  | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal08-7D/8Hr, 12 Hol - Mjr Rdwy                 |
| ContractNo_CAL16   | Cal16-Water Access 2, 5D/12Hol (Fish Migration)      | 50  | 03-Jan-23 | 15-Mar-23 | Cal16-Wtr Acc 2-5d/12hol    | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal16-Water Access 2, 5D/12Hol (Fish Migration) |
| ContractNo_CAL02   | Cal02-6D/8Hr, 12 Hol                                 | 100 | 03-Jan-23 | 02-May-23 | Cal02-6d/8hr/12hol          | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal02-6D/8Hr, 12 Hol                            |
| ContractNo_CAL07   | Cal07-6D/8Hr, 12 Hol - Mjr Rdwy                      | 100 | 03-Jan-23 | 02-May-23 | Cal07-6d/8hr/12hol-MjrRdw   | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal07-6D/8Hr, 12 Hol - Mjr Rdwy                 |
| ContractNo_CAL01   | Cal01-5D/8Hr, 12 Hol                                 | 100 | 03-Jan-23 | 25-May-23 | Cal01-5d/8hr/12hol          | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal01-5D/8Hr, 12 Hol                            |
| ContractNo_C&RP    | Cost & Resource Placeholder (Delete After Importing) | 100 | 03-Jan-23 | 25-May-23 | Cal01-5d/8hr/12hol          | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cost & Resource Placeholder (Delete After Im    |
| ContractNo_CAL06   | Cal06-5D/8Hr, 12 Hol - Mjr Rdwy                      | 100 | 03-Jan-23 | 25-May-23 | Cal06-5d/8hr/12hol-Mjr Rdv  | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal06-5D/8Hr, 12 Hol - Mjr Rdwy                 |
| ContractNo_CAL10   | Cal10-Winter Ineff, 5D/12 Hol                        | 100 | 03-Jan-23 | 16-Jun-23 | Cal10-Wntr Ineff 5d/12hol   | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal10-Winter Ineff, 5D/12 Hol                   |
| ContractNo_CAL05   | Cal05-MBTA Night No Hol                              | 100 | 03-Jan-23 | 25-May-23 | Cal05-MBTA Night/12hol      | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal05-MBTA Night No Hol                         |
| ContractNo_CAL11   | Cal11-Winter Shut 5D/8Hr, 12Hol                      | 100 | 16-Mar-23 | 08-Aug-23 | Cal11-Wntr Shut 5d/12hol    | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal11-Winter Shut 5D/8Hr, 12Hol                 |
| ContractNo_CAL14   | Cal14-Planting, 5D/12Hol - Deciduous                 | 100 | 21-Mar-23 | 28-Nov-23 | Cal14-Planting 5d/12hol - C | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal14-Planting, 5D/12Hol - Dec                  |
| ContractNo_CAL12   | Cal12-Paving, 5D/12 Hol                              | 100 | 03-Apr-23 | 24-Aug-23 | Cal12-Paving 5d/12hol       | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal12-Paving, 5D/12 Hol                         |
| ContractNo_CAL17   | Cal17 - Reclamation - 5d/12hol                       | 100 | 18-Apr-23 | 08-Sep-23 | Cal17-Reclamation-5d/12h    | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal17 - Reclamation - 5d/12ho                   |
| ContractNo_CAL13   | Cal13-Planting, 5D/12Hol - Evergreen                 | 50  | 18-Apr-23 | 12-Sep-23 | Cal13-Planting 5d/12hol - E | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal13-Planting, 5D/12Hol - Evergree             |
| ContractNo_CAL15   | Cal15-Water Access1, 5D/12Hol (Low Flow)             | 50  | 01-Jun-23 | 11-Aug-23 | Cal15-Wtr Acc 1-5d/12hol    | PL        | CP        | NA         | NA       |             | NS       |      |    |    |    |    |      |    |    |  |  | Cal15-Water Access1, 5D/12Hol (Low F            |

**Deleted Activities**

■ Remaining Level of Effort    ◆ Milestone  
■ Actual Level of Effort  
■ Actual Work  
■ Remaining Work  
■ Critical Remaining Work

Layout = CST01-Baseline-All,    Filter = TASK filter: All Activities  
 Data Date = 01-Jan-23,    Run Date = 27-Jul-23, 09:49  
 Project Start = 01-Jan-23    Project Finish = 14-Nov-24

| Date | Revision | Checked | Approved |
|------|----------|---------|----------|
|      |          |         |          |
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## ATTACHMENT E: COST ACCOUNTS

**ATTACHMENT E – COST ACCOUNTS**

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 100             | SCHEDULE OF OPERATIONS - FIXED PRICE<br>\$ _____           |
| 100.001         | ELECTRICIAN  |
| 100.002         | LABORER  |
| 100.003         | SKILLED LABORER  |
| 100.004         | WELDER   |
| 100.005         | PLUMBER  |
| 100.006         | CARPENTER  |
| 100.007         | MECHANIC   |
| 100.008         | MILLWRIGHT   |
| 100.009         | EQUIPMENT OPERATOR   |
| 100.01          | IRONWORKER   |
| 100.011         | MACHINIST  |
| 100.1           | BASE LABOR RATE  |
| 100.4           | STORAGE FACILITY OR BUILDING                               |
| 100.5           | ELECTRICAL WORK  |
| 100.6           | PLUMBING WORK  |
| 100.61          | HVAC WORK  |
| 100.7           | ROOFING AND FLASHING WORK                                  |
| 100.71          | MASONRY WORK   |
| 100.72          | LATHING AND PLASTERING WORK                                |
| 100.73          | GLASS AND GLAZING WORK                                     |
| 100.74          | METAL WINDOWS WORK   |
| 100.75          | PAINTING   |
| 100.76          | TILES  |
| 100.77          | RESILIENT FLOORING   |
| 100.78          | MISCELLANEOUS AND ORNAMENTAL IRON WORK                     |
| 100.8           | ELEVATORS  |
| 101             | CLEARING AND GRUBBING                                      |
| 101.1           | CLEARING SITE  |
| 102             | SELECTIVE CLEARING AND THINNING                            |
| 102.01          | SELECTIVE CLEARING AND GRUBBING                            |
| 102.1           | TREE TRIMMING  |
| 102.5           | ROADSIDE TREE PROTECTION                                   |
| 102.51          | INDIVIDUAL TREE PROTECTION                                 |
| 102.52          | TEMPORARY TREE PROTECTION FENCE                            |
| 103             | TREE REMOVED - DIAMETER UNDER 24 INCHES                    |
| 103.1           | HEDGES REMOVED   |
| 104             | TREE REMOVED - DIAMETER 24 INCHES AND OVER                 |
| 105             | STUMP REMOVED  |
| 105.4           | TREE REMOVED (EXCLUDING STUMP) DIAMETER UNDER 24 INCHES    |
| 105.43          | TREE REMOVED (EXCLUDING STUMP) DIAMETER 24 INCHES AND OVER |
| 106.101         | BEARING ADJUSTMENT   |
| 106.11          | BLEEDER (BRIDGE DECK)                                      |
| 106.12          | BRIDGE CURB REMOVED AND RESET                              |
| 106.13          | BRIDGE FENCE POST ANCHOR BOLT                              |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 106.14          | BRIDGE SCUPPER   |
| 106.15          | BLEEDER (BRIDGE DECK) PVC                                  |
| 106.2           | CEMENT CONCRETE REFINISHING                                |
| 106.21          | CLEAN AND REPOINT JOINTS IN GRANITE (MASONRY) STRUCTURE    |
| 106.251         | CEMENT MORTAR FOR PATCHING                                 |
| 106.28          | CLEANING ABUTMENT DRAIN                                    |
| 106.301         | CLEAN AND PAINT STRUCTURAL STEEL                           |
| 106.302         | CLEAN AND PAINT STRUCTURAL STEEL-1                         |
| 106.33          | CLEAN, PAINT + REPAIR HIGHWAY LIGHTING ASSEM.(DOUBLE LUM.) |
| 106.331         | CLEAN, PAINT + REPAIR HIGHWAY LIGHTING ASSEM.(SINGLE LUM.) |
| 106.34          | CLEAR COATING  |
| 106.407         | JACKING AND SHORING EXISTING FLOOR BEAM                    |
| 106.408         | JACKING AND SHORING EXISTING PLATE GIRDER                  |
| 106.49          | ELASTOMERIC EXPANSION JOINT                                |
| 106.5           | ELASTOMERIC JOINT SEALER                                   |
| 106.61          | GEARS AND RACKS RENEWED                                    |
| 106.86          | HIGHWAY CLEANING   |
| 106.87          | JACKING SUPERSTRUCTURE                                     |
| 106.88          | JACKING AND SHORING  |
| 106.9           | JOINT FILLER COMPOUND                                      |
| 106.91          | JOINT FILLER COMPOUND-1                                    |
| 106.92          | JOURNAL REPAIRED   |
| 107.02          | LOW ALLOY STEEL PLATES                                     |
| 107.1           | MACHINERY AND STRUCTURAL REPAIRS                           |
| 107.12          | MAINTENANCE AND CARE OF NURSERY STOCK                      |
| 107.14          | METAL BRIDGE PLANK   |
| 107.15          | METAL GUTTER   |
| 107.17          | MISCELLANEOUS STEEL FOR MACHINERY                          |
| 107.18          | MISCELLANEOUS STRUCTURAL STEEL                             |
| 107.3           | OVERHEAD SIGN SUPPORT CLEANED AND PAINTED                  |
| 107.31          | OVERHEAD SIGN SUPPORT CLEANED AND PAINTED-1                |
| 107.4           | PAINTING STEEL   |
| 107.41          | PAINTING STRUCTURE   |
| 107.42          | PENTA TREATED LUMBER                                       |
| 107.43          | BRONZE SELF-LUBRICATING BEARING PLATES                     |
| 107.44          | PNEUMATICALLY APPLIED MORTAR                               |
| 107.441         | REMOVAL OF EXISTING GUNITE                                 |
| 107.45          | PNEUMATICALLY APPLIED MORTAR-1                             |
| 107.46          | PREFORMED COMPRESSION JOINT                                |
| 107.47          | PREFORMED ELASTOMERIC COMPRESSION JOINT SEALER             |
| 107.48          | PREFORMED JOINT FILLER                                     |
| 107.62          | REMOVAL AND DISPOSAL OF FENDER PIER (PILES AND TIMBERS)    |
| 107.63          | REMOVAL AND REPLACEMENT OF WALKS                           |

| Cost Account ID | Cost Account Name                                       |
|-----------------|---|
| 107.64          | REMOVAL AND REPLACEMENT OF BRIDGE RAILING               |
| 107.68          | ROADWAY EXPANSION DAM ASSEMBLY REMOVED AND RESET        |
| 107.81          | SAFETY TRUCK  |
| 107.82          | SCUPPER REMOVED AND RESET                               |
| 107.84          | SEALING LONGITUDINAL JOINTS IN CEMENT CONCRETE PAVEMENT |
| 107.85          | SEALING RANDOM CRACKS IN CEMENT CONCRETE PAVEMENT       |
| 107.855         | PRESSURE INJECTION OF CRACKS                            |
| 107.856         | PRESSURE INJECTION OF VOIDS UNDER ARMORED JOINT ANGLES  |
| 107.86          | SEALING CRACKS IN ASPHALT PAVEMENT                      |
| 107.87          | CAULKING JOINTS AND RANDOM CRACKS                       |
| 107.89          | SIGN SUPPORT FOUNDATION REPAIR                          |
| 107.9           | SIGN OVERLAY  |
| 107.94          | STEEL GRATING FOR WALK                                  |
| 107.95          | STEEL GRID DECKING                                      |
| 107.96          | STRUCTURAL STEEL REPAIRS                                |
| 107.97          | STRUCTURAL STEEL REPAIRS-9196                           |
| 107.98          | STRUCTURAL STEEL REPAIRS-RIVETS                         |
| 108.23          | TRAFFIC GATE FOR DRAW SPAN                              |
| 108.24          | TRAFFIC WARNING DEVICES                                 |
| 108.25          | TRAVEL TRASH DISPOSAL (MHD CONTAINER)                   |
| 108.26          | TRAVEL TRASH DISPOSAL (CONTRACTOR'S CONTAINER)          |
| 108.41          | WATER TRUCK   |
| 112.01          | DEMOLITION OF BUILDING OR STRUCTURE NO. _____           |
| 112.02          | DEMOLITION OF BUILDING OR STRUCTURE NO. _____-1         |
| 112.03          | DEMOLITION OF BUILDING OR STRUCTURE NO. _____-2         |
| 113.1           | DEMOLITION OF DECK SLAB OF BRIDGE NO. _____             |
| 114.1           | DEMOLITION OF SUPERSTRUCTURE OF BRIDGE NO. _____        |
| 114.11          | PARTIAL DEMOLITION OF SUPERSTRUCTURE BR. NO. _____      |
| 114.2           | DEMOLITION OF SUPERSTRUCTURE OF BRIDGE NO. _____-1      |
| 114.3           | DEMOLITION OF SUPERSTRUCTURE OF BRIDGE NO. _____-2      |
| 114.4           | DEMOLITION OF SUPERSTRUCTURE OF BRIDGE B-03-008         |
| 114.5           | DEMOLITION OF SUPERSTRUCTURE OF BRIDGE C-11-033         |
| 115.1           | DEMOLITION OF BRIDGE NO. _____                          |
| 115.2           | DEMOLITION OF BRIDGE NO. _____-1                        |
| 115.3           | DEMOLITION OF BRIDGE NO. _____-2                        |
| 116             | REMOVAL OF TEMPORARY STRUCTURE                          |
| 116.2           | REMOVAL OF TEMPORARY DETOUR                             |
| 118             | TEMPORARY CONSTRUCTION ACCESS ROAD                      |

| Cost Account ID | Cost Account Name                                     |
|-----------------|---|
| 119             | RODENT CONTROL  |
| 119.4           | PEST BIRD CONTROL                                     |
| 120             | EARTH EXCAVATION                                      |
| 120.1           | UNCLASSIFIED EXCAVATION                               |
| 121             | CLASS A ROCK EXCAVATION                               |
| 122             | PRESPLITTING ROCK                                     |
| 122.1           | PRESPLITTING ROCK (NON EXPLOSIVE)                     |
| 123             | MUCK EXCAVATION                                       |
| 124             | LOAM EXCAVATED AND STACKED                            |
| 125             | TOPSOIL EXCAVATED AND STACKED                         |
| 127             | CONCRETE EXCAVATION                                   |
| 127.1           | REINFORCED CONCRETE EXCAVATION                        |
| 127.11          | REINFORCED CONCRETE EXCAVATION-5601                   |
| 127.12          | REINFORCED CONCRETE EXCAVATION FOR REPAIRS            |
| 127.21          | SCARIFYING REINFORCED CONCRETE SURFACE                |
| 127.3           | REINFORCED CONCRETE SURFACE EXCAVATION                |
| 127.4           | REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)      |
| 127.41          | REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH)   |
| 127.411         | Reinforced Concrete Excavation (Partial Depth)        |
| 129             | ASPHALT PAVEMENT EXCAVATION BY COLD PLANER            |
| 129.2           | OLD PAVEMENT EXCAVATION                               |
| 129.3           | OLD PAVEMENT EXCAVATION-1                             |
| 129.4           | DUMP EXCAVATION                                       |
| 129.5           | TRACK EXCAVATION                                      |
| 129.6           | BRIDGE PAVEMENT EXCAVATION                            |
| 130             | PAVEMENT MILLING                                      |
| 140             | BRIDGE EXCAVATION                                     |
| 140.1           | BRIDGE EXCAVATION WITHIN COFFERDAM                    |
| 141             | CLASS A TRENCH EXCAVATION                             |
| 141.1           | TEST PIT FOR EXPLORATION                              |
| 142             | CLASS B TRENCH EXCAVATION                             |
| 143             | CHANNEL EXCAVATION                                    |
| 144             | CLASS B ROCK EXCAVATION                               |
| 144.1           | CLASS B ROCK EXCAVATION - PIERS IN DEEP WATER         |
| 144.2           | CLASS B ROCK EXCAVATION WITHIN COFFERDAM              |
| 145             | DRAINAGE STRUCTURE ABANDONED                          |
| 146             | DRAINAGE STRUCTURE REMOVED                            |
| 148             | DREDGING AND DISPOSING OF MATERIAL                    |
| 148.1           | DREDGING AND DISPOSING OF MATERIAL (HYDRAULIC METHOD) |
| 148.2           | REMOVAL AND DISPOSAL OF ROCK FROM DREDGED AREAS       |
| 148.3           | REMOVAL AND DISPOSAL OF LEDGE FROM DREDGED AREAS      |
| 148.4           | DREDGING, MOBILIZATION AND DEMOBILIZATION             |

| Cost Account ID | Cost Account Name                                  |
|-----------------|--|
| 150             | ORDINARY BORROW                                    |
| 150.1           | SPECIAL BORROW                                     |
| 151             | GRAVEL BORROW                                      |
| 151.01          | GRAVEL BORROW - TYPE C                             |
| 151.02          | GRAVEL BORROW1                                     |
| 151.03          | GRAVEL BORROW - TYPE C-1                           |
| 151.1           | GRAVEL BORROW FOR BRIDGE FOUNDATION                |
| 151.2           | GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES |
| 151.21          | GRAVEL BORROW FOR RIPRAP                           |
| 151.22          | GRAVEL BORROW FOR SIDEWALK                         |
| 151.3           | GRAVEL BORROW FOR SLOPE TREATMENT                  |
| 151.5           | GRAVEL BORROW IN COFFERDAMS                        |
| 152             | PROCESSED GRAVEL                                   |
| 152.01          | PROCESSED GRAVEL-1                                 |
| 152.1           | SCREENED GRAVEL                                    |
| 152.3           | PEASTONE FOR INTEGRAL ABUTMENTS                    |
| 152.4           | PEASTONE FOR SEDIMENTATION POOL                    |
| 152.5           | PEASTONE FOR DRIVEWAYS                             |
| 152.6           | PEASTONE FOR SIDEWALKS                             |
| 152.7           | PEASTONE   |
| 153             | CONTROLLED DENSITY FILL - EXCAVATABLE              |
| 153.1           | CONTROLLED DENSITY FILL - NON-EXCAVATABLE          |
| 154             | SAND BORROW  |
| 154.1           | SAND BORROW (COVER)                                |
| 154.2           | SAND BORROW IN COFFERDAM                           |
| 154.3           | SAND BORROW FOR BRIDGE MEDIAN                      |
| 154.4           | SAND BORROW FOR DUMPED RIPRAP                      |
| 154.5           | SAND BORROW FOR FILTER BLANKET                     |
| 155             | LOAM OR CLAY HARDENING                             |
| 156             | CRUSHED STONE                                      |
| 156.1           | CRUSHED STONE FOR BRIDGE FOUNDATIONS               |
| 156.12          | CRUSHED STONE FOR CURB FOUNDATION                  |
| 156.13          | CRUSHED STONE FOR INTEGRAL ABUTMENTS               |
| 156.2           | CRUSHED STONE FOR SLOPE TREATMENT                  |
| 156.3           | CRUSHED STONE FOR BACKING                          |
| 156.4           | CRUSHED STONE FOR UNDERDRAIN                       |
| 156.5           | CRUSHED STONE FOR FILTER BLANKET                   |
| 156.8           | CRUSHED STONE FOR SUB-BASE                         |
| 156.9           | CRUSHED STONE FOR CHANNEL PAVING FOUNDATION        |
| 157             | STONE FOR DRAINAGE END                             |
| 157.1           | GABIONS  |
| 157.2           | RENO MATTRESS                                      |
| 160             | PIEZOMETER   |
| 160.1           | PIEZOMETER - VIBRATION WIRE                        |
| 160.109         | INSTRUMENTATION                                    |
| 160.2           | PIEZOMETER - HYDRAULIC (SINGLE TUBE)               |
| 160.3           | PIEZOMETER - HYDRAULIC (DOUBLE TUBE)               |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 160.4           | INCLINOMETER CASING                                       |
| 160.5           | INCLINATOR CASING   |
| 160.6           | TIDE GAUGE  |
| 160.7           | PERMANENT BENCH MARK                                      |
| 161             | SETTLEMENT PLATFORM                                       |
| 161.1           | SETTLEMENT ANCHOR   |
| 162             | DISPLACEMENT STAKE  |
| 170             | FINE GRADING AND COMPACTING                               |
| 170.1           | FINE GRADING, COMPACTING AND FINISHING                    |
| 170.2           | GRADING AND COMPACTING                                    |
| 170.4           | SCARIFYING AND RESHAPING                                  |
| 180.1           | HEALTH AND SAFETY PLAN                                    |
| 180.2           | IMPLEMENTATION OF HEALTH AND SAFETY PLAN                  |
| 180.3           | PERSONNEL PROTECTION LEVEL C UPGRADE                      |
| 180.4           | MONITORING/HANDLING AND STOCKPILING OF CONTAMINATED SOILS |
| 180.5           | LICENSED SITE PROFESSIONAL                                |
| 180.6           | MISC. SOIL TESTING  |
| 181.1           | DISPOSAL OF CONTAMINATED SOIL                             |
| 181.11          | DISPOSAL OPTIONS FOR CONTAMINATED SOILS                   |
| 181.12          | DISPOSAL OF UREGULATED SOIL                               |
| 181.13          | DISPOSAL OF REGULATED SOIL - OUT OF STATE FACILITY        |
| 181.14          | DISPOSAL OF HAZARDOUS WASTE                               |
| 181.22          | DISPOSAL OF REGULATED SOIL - IN STATE FACILITY            |
| 182             | ASBESTOS TESTING/REMOVAL                                  |
| 182.1           | INSPECTION AND TESTING FOR ASBESTOS                       |
| 182.2           | REMOVAL OF ASBESTOS                                       |
| 183.1           | TREATMENT OF CONTAMINATED GROUNDWATER                     |
| 183.2           | DISPOSAL OF GRANULAR ACTIVATED CARBON                     |
| 184.1           | DISPOSAL OF TREATED WOOD PRODUCTS                         |
| 185.1           | UNDERGROUND STORAGE TANK REMOVAL (FUEL OIL OR DIESEL)     |
| 185.2           | UST REMOVAL/ 5,000-10,000 GAL. (FUEL OIL OR DIESEL)       |
| 185.3           | UST REMOVAL/ OVER 10,000 GAL. (FUEL OIL OR DIESEL)        |
| 185.4           | UST REMOVAL/ UNDER 5,000 GAL. (GASOLINE)                  |
| 185.5           | UST REMOVAL/ 5,000-10,000 GAL. (GASOLINE)                 |
| 185.6           | UST REMOVAL/ UNDER 1,000 GAL. (WASTE OIL)                 |
| 185.7           | UST REMOVAL/ 1,000-5,000 GAL. (WASTE OIL)                 |
| 186.1           | DISPOSAL OF RECLAIMABLE - RECYCLABLE WASTE LIQUID         |
| 186.2           | DISPOSAL OF NON-RECLAIMABLE - RECYCLABLE WASTE LIQUID     |
| 187.3           | REMOVAL AND DISPOSAL OF DRAINAGE STRUCTURE SEDIMENTS      |
| 187.31          | REMOVAL AND DISPOSAL OF DRAINAGE PIPE SEDIMENTS           |
| 191             | DRIVE SAMPLE BORING                                       |

| Cost Account ID | Cost Account Name                                    |
|-----------------|--|
| 191.1           | HOLLOW STEM AUGER BORINGS                            |
| 191.11          | CORE BORING  |
| 191.2           | UNDISTURBED SAMPLE PREPARTORY BORING                 |
| 191.21          | UNDISTURBED SAMPLE                                   |
| 191.3           | VANE SHEAR TEST PREP. BORING                         |
| 191.31          | VANE SHEAR TEST                                      |
| 191.4           | AUGER BORING   |
| 191.41          | AUGER BORING SAMPLE                                  |
| 191.5           | THIN WALL STEEL TUBE DRIVE SAMPLE                    |
| 191.6           | TEST PIT   |
| 191.61          | TEST PIT THROUGH PAVEMENT                            |
| 192             | GROUND WATER OBSERVATION WELLPOINT TYPE I            |
| 192.1           | GROUND WATER OBSERVATION WELLPOINT TYPE II           |
| 192.2           | GROUND WATER OBSERVATION WELLPOINT TY III-SOLID PIPE |
| 192.21          | GROUND WATER OBSERVATION WELLPOINT TY III-WELLSCREEN |
| 192.3           | GROUND WATER OBSERVATION WELLPOINT TY IV-SOLID PIPE  |
| 192.31          | GROUND WATER OBSERVATION WELLPOINT TY IV-WELLSCREEN  |
| 193             | MOBILIZATION AND DISMANTLING OF BORING EQUIPMENT     |
| 201             | CATCH BASIN  |
| 201.3           | SPECIAL CATCH BASIN                                  |
| 201.31          | SPECIAL CATCH BASIN NO. 1                            |
| 201.32          | SPECIAL CATCH BASIN NO. 2                            |
| 201.4           | SPECIAL CATCH BASIN WITH DUAL GRATE                  |
| 201.5           | CATCH BASIN - MUNICIPAL STANDARD                     |
| 201.6           | TRENCH DRAIN   |
| 202             | MANHOLE  |
| 202.01          | MANHOLE - MUNICIPAL STANDARD                         |
| 202.2           | MANHOLE ( 9 TO 14 FOOT DEPTH)                        |
| 202.21          | MANHOLE (9 TO 14 FOOT DEPTH) - MUNICIPAL STANDARD    |
| 202.3           | MANHOLE (14 TO 18 FOOT DEPTH)                        |
| 202.31          | MANHOLE (14 TO 18 FOOT DEPTH) - MUNICIPAL STANDARD   |
| 202.4           | MANHOLE (18 FOOT AND OVER)                           |
| 203             | SPECIAL MANHOLE                                      |
| 203.11          | SPECIAL MANHOLE - MUNICIPAL STANDARD                 |
| 204             | GUTTER INLET   |
| 204.11          | GUTTER INLET - SPECIAL                               |
| 204.3           | GUTTER INLET - MUNICIPAL STANDARD                    |
| 205             | LEACHING BASIN                                       |
| 205.11          | STONE LINED INFILTRATION TRENCH                      |
| 205.12          | WATER QUALITY SWALE                                  |
| 206             | DROP INLET, TYPE A                                   |
| 206.1           | DROP INLET, TYPE AF                                  |

| Cost Account ID | Cost Account Name                                |
|-----------------|--|
| 207             | DROP INLET, TYPE B                               |
| 207.1           | DROP INLET, TYPE BF                              |
| 208             | DROP INLET, TYPE C                               |
| 208.1           | DROP INLET, TYPE CF                              |
| 208.11          | DROP INLET (DOUBLE) TYPE CF                      |
| 209             | DROP INLET, TYPE D                               |
| 209.1           | DROP INLET, TYPE DF                              |
| 209.2           | SPECIAL DROP INLET                               |
| 209.3           | DROP INLET CHANGE IN TYPE                        |
| 209.4           | DROP INLET REMODELED                             |
| 209.5           | DROP INLET REBUILT                               |
| 210             | SANITARY SEWER MANHOLE                           |
| 210.02          | SANITARY SEWER MANHOLE REMOVED                   |
| 210.1           | SANITARY SEWER MANHOLE MUNICIPAL STANDARD        |
| 210.2           | SANITARY SEWER MANHOLE (9 TO 14 FOOT DEPTH)      |
| 210.3           | SANITARY SEWER MANHOLE (14 TO 18 FOOT DEPTH)     |
| 210.4           | SANITARY SEWER MANHOLE (18 FOOT AND OVER)        |
| 211             | SPECIAL SANITARY SEWER MANHOLE                   |
| 220             | DRAINAGE STRUCTURE ADJUSTED                      |
| 220.2           | DRAINAGE STRUCTURE REBUILT                       |
| 220.3           | DRAINAGE STRUCTURE CHANGE IN TYPE                |
| 220.5           | DRAINAGE STRUCTURE REMODELED                     |
| 220.51          | DRAINAGE STRUCTURE REMODELED-5065                |
| 220.6           | SANITARY STRUCTURE REBUILT                       |
| 220.7           | SANITARY STRUCTURE ADJUSTED                      |
| 220.8           | SANITARY STRUCTURE REMODELED                     |
| 220.9           | SANITARY STRUCTURE ABANDONED                     |
| 221             | FRAME AND COVER                                  |
| 221.1           | FRAME AND GRATE MHD CATCH BASIN                  |
| 222             | FRAME AND GRATE                                  |
| 222.1           | FRAME AND GRATE MHD CASCADE TYPE                 |
| 222.2           | FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD    |
| 222.3           | FRAME AND GRATE MUNICIPAL STANDARD               |
| 222.31          | FRAME AND GRATE - SPECIAL                        |
| 223             | FRAME AND GRATE (OR COVER) REMOVED AND RESET     |
| 223.1           | FRAME AND GRATE (OR COVER) REMOVED AND STACKED   |
| 223.2           | FRAME AND GRATE (OR COVER) REMOVED AND DISCARDED |
| 223.3           | EXTENSION RING FOR MANHOLE                       |
| 224.08          | 8 INCH HOOD                                      |
| 224.1           | 10 INCH HOOD                                     |
| 224.12          | 12 INCH HOOD                                     |
| 224.15          | 15 INCH HOOD                                     |
| 224.18          | 18 INCH HOOD                                     |

| Cost Account ID | Cost Account Name                         |
|-----------------|---|
| 225.52          | TRAP AND HOOD MUNICIPAL STANDARD          |
| 226             | CLEANING DRAINAGE STRUCTURES              |
| 226.1           | CLEANING DRAINAGE STRUCTURES-1            |
| 226.2           | CLEANING DRAINAGE PIPES                   |
| 226.3           | CLEANING DRAINAGE PIPES-1                 |
| 226.4           | CLEANING CATCH BASIN                      |
| 227             | TRASH RACK                                |
| 227.1           | TIDE GATE                                 |
| 227.2           | SLUICE GATE                               |
| 227.3           | BUILDING DRAIN CONNECTION                 |
| 227.31          | REMOVAL OF DRAINAGE PIPE SEDIMENT         |
| 227.4           | MASONRY PLUG                              |
| 230.112         | 12 INCH CORRUGATED METAL PIPE 16 GAGE     |
| 230.115         | 15 INCH CORRUGATED METAL PIPE 16 GAGE     |
| 230.118         | 18 INCH CORRUGATED METAL PIPE 16 GAGE     |
| 230.124         | 24 INCH CORRUGATED METAL PIPE 16 GAGE     |
| 230.212         | 12 INCH CORRUGATED METAL PIPE 14 GAGE     |
| 230.215         | 15 INCH CORRUGATED METAL PIPE 14 GAGE     |
| 230.218         | 18 INCH CORRUGATED METAL PIPE 14 GAGE     |
| 230.224         | 24 INCH CORRUGATED METAL PIPE 14 GAGE     |
| 230.23          | 30 INCH CORRUGATED METAL PIPE 14 GAGE     |
| 230.236         | 36 INCH CORRUGATED METAL PIPE 14 GAGE     |
| 230.315         | 15 INCH CORRUGATED METAL PIPE 12 GAGE     |
| 230.318         | 18 INCH CORRUGATED METAL PIPE 12 GAGE     |
| 230.324         | 24 INCH CORRUGATED METAL PIPE 12 GAGE     |
| 230.33          | 30 INCH CORRUGATED METAL PIPE 12 GAGE     |
| 230.336         | 36 INCH CORRUGATED METAL PIPE 12 GAGE     |
| 230.342         | 42 INCH CORRUGATED METAL PIPE 12 GAGE     |
| 230.348         | 48 INCH CORRUGATED METAL PIPE 12 GAGE     |
| 230.354         | 54 INCH CORRUGATED METAL PIPE 12 GAGE     |
| 230.424         | 24 INCH CORRUGATED METAL PIPE 10 GAGE     |
| 230.43          | 30 INCH CORRUGATED METAL PIPE 10 GAGE     |
| 230.436         | 36 INCH CORRUGATED METAL PIPE 10 GAGE     |
| 230.442         | 42 INCH CORRUGATED METAL PIPE 10 GAGE     |
| 230.448         | 48 INCH CORRUGATED METAL PIPE 10 GAGE     |
| 230.454         | 54 INCH CORRUGATED METAL PIPE 10 GAGE     |
| 230.46          | 60 INCH CORRUGATED METAL PIPE 10 GAGE     |
| 230.53          | 30 INCH CORRUGATED METAL PIPE 8 GAGE      |
| 230.536         | 36 INCH CORRUGATED METAL PIPE 8 GAGE      |
| 230.542         | 42 INCH CORRUGATED METAL PIPE 8 GAGE      |
| 230.548         | 48 INCH CORRUGATED METAL PIPE 8 GAGE      |
| 230.554         | 54 INCH CORRUGATED METAL PIPE 8 GAGE      |
| 230.56          | 60 INCH CORRUGATED METAL PIPE 8 GAGE      |
| 230.572         | 72 INCH CORRUGATED METAL PIPE 8 GAGE      |
| 230.584         | 84 INCH CORRUGATED METAL PIPE 8 GAGE      |
| 230.712         | 12 INCH CORRUGATED METAL PIPE END SECTION |
| 230.715         | 15 INCH CORRUGATED METAL PIPE END SECTION |
| 230.718         | 18 INCH CORRUGATED METAL PIPE END SECTION |
| 230.724         | 24 INCH CORRUGATED METAL PIPE END SECTION |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 230.73          | 30 INCH CORRUGATED METAL PIPE END SECTION                     |
| 230.736         | 36 INCH CORRUGATED METAL PIPE END SECTION                     |
| 230.742         | 42 INCH CORRUGATED METAL PIPE END SECTION                     |
| 230.748         | 48 INCH CORRUGATED METAL PIPE END SECTION                     |
| 230.754         | 54 INCH CORRUGATED METAL PIPE END SECTION                     |
| 230.76          | 60 INCH CORRUGATED METAL PIPE END SECTION                     |
| 230.772         | 72 INCH CORRUGATED METAL PIPE END SECTION                     |
| 230.784         | 84 INCH CORRUGATED METAL PIPE END SECTION                     |
| 232             | 18 X 11 INCH ACCM PIPE-ARCH 16 GAGE                           |
| 232.1           | 22 X 13 INCH ACCM PIPE-ARCH 16 GAGE                           |
| 232.2           | 29 X 18 INCH ACCM PIPE-ARCH 14 GAGE                           |
| 232.3           | 36 X 22 INCH ACCM PIPE-ARCH 14 GAGE                           |
| 232.4           | 43 X 27 INCH ACCM PIPE-ARCH 12 GAGE                           |
| 232.5           | 50 X 31 INCH ACCM PIPE-ARCH 12 GAGE                           |
| 232.6           | 58 X 36 INCH ACCM PIPE-ARCH 12 GAGE                           |
| 232.7           | 65 X 40 INCH ACCM PIPE-ARCH 10 GAGE                           |
| 232.8           | 72 X 44 INCH ACCM PIPE-ARCH 10 GAGE                           |
| 232.9           | 72 X 44 INCH ACCM PIPE-ARCH 8 GAGE                            |
| 234.12          | 12 INCH DRAINAGE PIPE - OPTION                                |
| 234.15          | 15 INCH DRAINAGE PIPE - OPTION                                |
| 234.18          | 18 INCH DRAINAGE PIPE - OPTION                                |
| 234.24          | 24 INCH DRAINAGE PIPE - OPTION                                |
| 234.3           | 30 INCH DRAINAGE PIPE - OPTION                                |
| 234.36          | 36 INCH DRAINAGE PIPE - OPTION                                |
| 235.12          | 12 INCH DRAINAGE PIPE FLARED END - OPTION                     |
| 235.15          | 15 INCH DRAINAGE PIPE FLARED END - OPTION                     |
| 235.18          | 18 INCH DRAINAGE PIPE FLARED END - OPTION                     |
| 235.24          | 24 INCH DRAINAGE PIPE FLARED END - OPTION                     |
| 235.3           | 30 INCH DRAINAGE PIPE FLARED END - OPTION                     |
| 235.36          | 36 INCH DRAINAGE PIPE FLARED END - OPTION                     |
| 238.03          | 300MM DUCTILE IRON PIPE                                       |
| 238.1           | 10 INCH DUCTILE IRON PIPE                                     |
| 238.12          | 12 INCH DUCTILE IRON PIPE                                     |
| 238.16          | 16 INCH DUCTILE IRON PIPE                                     |
| 238.18          | 18 INCH DUCTILE IRON PIPE                                     |
| 238.24          | 24 INCH DUCTILE IRON PIPE                                     |
| 239.6           | 60 INCH STRUCTURAL PLATE PIPE                                 |
| 239.66          | 66 INCH STRUCTURAL PLATE PIPE                                 |
| 239.72          | 72 INCH STRUCTURAL PLATE PIPE                                 |
| 239.84          | 84 INCH STRUCTURAL PLATE PIPE                                 |
| 239.96          | 96 INCH STRUCTURAL PLATE PIPE                                 |
| 239.97          | 108 INCH STRUCTURAL PLATE PIPE                                |
| 239.98          | 120 INCH STRUCTURAL PLATE PIPE                                |
| 240.616         | 6 FT. 1 IN. X 4 FT. 7 IN. STRUCTURAL PLATE PIPE-ARCH 12 GAGE  |
| 240.646         | 6 FT. 4 IN. X 4 FT. 9 IN. STRUCTURAL PLATE PIPE-ARCH 12 GAGE  |
| 240.696         | 6 FT. 9 IN. X 4 FT. 11 IN. STRUCTURAL PLATE PIPE-ARCH 12 GAGE |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 240.706         | 7 FT. 0 IN. X 5 FT. 1 IN. STRUCTURAL PLATE PIPE-ARCH 12 GAGE |
| 240.735         | 7 FT. 3 IN. X 5 FT. 3 IN. STRUCTURAL PLATE PIPE-ARCH 10 GAGE |
| 240.736         | 7 FT. 3 IN. X 5 FT. 3 IN. STRUCTURAL PLATE PIPE-ARCH 12 GAGE |
| 240.99          | 9 FT. 9 IN. X 6 FT. 7 IN. STRUCTURAL PLATE PIPE-ARCH 3 GAGE  |
| 240.992         | 11 FT. 10 IN. X 7 FT. 7 IN. STRUCTURAL PLATE PIPE-ARCH 7 GAG |
| 240.994         | 20 FT. 7 IN. X 13 FT. 2 IN. STRUCTURAL PLATE PIPE-ARCH 3 GAG |
| 241.12          | 12 INCH REINFORCED CONCRETE PIPE                             |
| 241.15          | 15 INCH REINFORCED CONCRETE PIPE                             |
| 241.18          | 18 INCH REINFORCED CONCRETE PIPE                             |
| 241.24          | 24 INCH REINFORCED CONCRETE PIPE                             |
| 241.3           | 30 INCH REINFORCED CONCRETE PIPE                             |
| 241.36          | 36 INCH REINFORCED CONCRETE PIPE                             |
| 241.42          | 42 INCH REINFORCED CONCRETE PIPE                             |
| 241.48          | 48 INCH REINFORCED CONCRETE PIPE                             |
| 241.54          | 54 INCH REINFORCED CONCRETE PIPE                             |
| 241.6           | 60 INCH REINFORCED CONCRETE PIPE                             |
| 241.66          | 66 INCH REINFORCED CONCRETE PIPE                             |
| 241.72          | 72 INCH REINFORCED CONCRETE PIPE                             |
| 242.12          | 12 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.15          | 15 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.18          | 18 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.24          | 24 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.3           | 30 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.36          | 36 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.42          | 42 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.48          | 48 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.54          | 54 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.6           | 60 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.66          | 66 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 242.72          | 72 INCH REINFORCED CONCRETE PIPE FLARED END                  |
| 243.12          | 12 INCH REINFORCED CONCRETE PIPE CLASS IV                    |
| 243.15          | 15 INCH REINFORCED CONCRETE PIPE CLASS IV                    |
| 243.18          | 18 INCH REINFORCED CONCRETE PIPE CLASS IV                    |
| 243.24          | 24 INCH REINFORCED CONCRETE PIPE CLASS IV                    |
| 243.3           | 30 INCH REINFORCED CONCRETE PIPE CLASS IV                    |
| 243.36          | 36 INCH REINFORCED CONCRETE PIPE CLASS IV                    |

| Cost Account ID | Cost Account Name                               |
|-----------------|---|
| 243.42          | 42 INCH REINFORCED CONCRETE PIPE CLASS IV       |
| 243.48          | 48 INCH REINFORCED CONCRETE PIPE CLASS IV       |
| 243.54          | 54 INCH REINFORCED CONCRETE PIPE CLASS IV       |
| 243.6           | 60 INCH REINFORCED CONCRETE PIPE CLASS IV       |
| 243.66          | 66 INCH REINFORCED CONCRETE PIPE CLASS IV       |
| 244.12          | 12 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.15          | 15 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.18          | 18 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.24          | 24 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.3           | 30 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.36          | 36 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.42          | 42 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.48          | 48 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.54          | 54 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.6           | 60 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.66          | 66 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.72          | 72 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 244.84          | 84 INCH REINFORCED CONCRETE PIPE CLASS V        |
| 246.12          | 12 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.15          | 15 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.18          | 18 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.21          | 21 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.24          | 24 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.3           | 30 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.36          | 36 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.42          | 42 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.48          | 48 INCH REINFORCED CONCRETE SANITARY SEWER PIPE |
| 246.99          | CURED-IN-PLACE PIPE FOR EXISTING SEWER          |
| 248.01          | TEMPORARY SANITARY SEWER BYPASS SYSTEM          |
| 250.04          | 4 INCH POLYVINAL CHLORIDE SANITATY SEWER PIPE   |
| 250.06          | 6 INCH POLYVINYL CHLORIDE SANITARY SEWER PIPE   |
| 250.08          | 8 INCH POLYVINYL CHLORIDE SANITARY SEWER PIPE   |
| 250.1           | 10 INCH POLYVINYLCHLORIDE SANITARY SEWER PIPE   |
| 250.12          | 12 INCH POLYVINYLCHLORIDE SANITARY SEWER PIPE   |
| 252.112         | 12 INCH CORRUGATED PLASTIC PIPE FLARED END      |
| 252.115         | 15 INCH CORRUGATED PLASTIC PIPE FLARED END      |
| 252.118         | 18 INCH CORRUGATED PLASTIC PIPE FLARED END      |
| 252.12          | 12 INCH CORRUGATED PLASTIC (POLYETHYLENE) PIPE  |

| Cost Account ID | Cost Account Name                                 |
|-----------------|---|
| 252.124         | 24 INCH CORRUGATED PLASTIC PIPE FLARED END        |
| 252.13          | 30 INCH CORRUGATED PLASTIC PIPE FLARED END        |
| 252.136         | 36 INCH CORRUGATED PLASTIC PIPE FLARED END        |
| 252.15          | 15 INCH CORRUGATED PLASTIC (POLYETHYLENE) PIPE    |
| 252.18          | 18 INCH CORRUGATED PLASTIC (POLYETHYLENE) PIPE    |
| 252.24          | 24 INCH CORRUGATED PLASTIC (POLYETHYLENE) PIPE    |
| 252.3           | 30 INCH CORRUGATED PLASTIC (POLYETHYLENE) PIPE    |
| 252.36          | 36 INCH CORRUGATED PLASTIC (POLYETHYLENE) PIPE    |
| 253.06          | 6 INCH STEEL PIPE CASING FOR GAS PIPE             |
| 253.12          | 12 INCH STEEL PIPE CASING FOR SEWER PIPE          |
| 253.3           | JACKING 30 INCH PIPE                              |
| 253.36          | JACKING 36 INCH PIPE                              |
| 253.42          | JACKING 42 INCH PIPE                              |
| 253.48          | JACKING 48 INCH PIPE                              |
| 253.6           | JACKING 60 INCH PIPE                              |
| 253.66          | JACKING 66 INCH PIPE                              |
| 253.72          | JACKING 72 INCH PIPE                              |
| 253.84          | JACKING 84 INCH PIPE                              |
| 254.04          | 4 INCH SEWER PIPE INSULATION                      |
| 254.06          | 6 INCH SEWER PIPE INSULATION                      |
| 254.08          | 8 INCH SEWER PIPE INSULATION                      |
| 254.1           | 10 INCH SEWER PIPE INSULATION                     |
| 254.12          | 12 INCH SEWER PIPE INSULATION                     |
| 254.14          | 14 INCH SEWER PIPE INSULATION                     |
| 254.16          | 16 INCH SEWER PIPE INSULATION                     |
| 254.18          | 18 INCH SEWER PIPE INSULATION                     |
| 254.24          | 24 INCH SEWER PIPE INSULATION                     |
| 255.06          | 6 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE  |
| 255.08          | 8 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE  |
| 255.1           | 10 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE |
| 255.12          | 12 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE |
| 255.15          | 15 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE |
| 255.18          | 18 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE |
| 255.21          | 21 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE |
| 255.24          | 24 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE |
| 255.3           | 30 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE |
| 255.36          | 36 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 255.42          | 42 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE           |
| 255.48          | 48 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE           |
| 255.54          | 54 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE           |
| 255.6           | 60 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE           |
| 255.72          | 72 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE           |
| 255.84          | 84 INCH POLYMERIC PRECOATED CORRUGATED METAL PIPE           |
| 258             | STONE FOR PIPE ENDS   |
| 259             | CRUSHED STONE FOR BLEEDERS                                  |
| 261.06          | 6 INCH PERFORATED CORRUGATED METAL PIPE-18 GAGE (SUBDRAIN)  |
| 261.08          | 8 INCH PERFORATED CORRUGATED METAL PIPE-18 GAGE (SUBDRAIN)  |
| 261.1           | 10 INCH PERFORATED CORRUGATED METAL PIPE-18 GAGE (SUBDRAIN) |
| 261.12          | 12 INCH PERFORATED CORRUGATED METAL PIPE-16 GAGE (SUBDRAIN) |
| 265.06          | 6 INCH PIPE SUBDRAIN - OPTION                               |
| 265.08          | 8 INCH PIPE SUBDRAIN - OPTION                               |
| 266.06          | 6 INCH POROUS CONCRETE PIPE (SUBDRAIN)                      |
| 266.08          | 8 INCH POROUS CONCRETE PIPE (SUBDRAIN)                      |
| 269.06          | 6 INCH SLOT-PERFORATED CORRUGATED PLASTIC PIPE (SUBDRAIN)   |
| 269.08          | 8 INCH SLOT-PERFORATED CORRUGATED PLASTIC PIPE (SUBDRAIN)   |
| 269.1           | 10 INCH SLOT-PERFORATED CORRUGATED PLASTIC PIPE (SUBDRAIN)  |
| 270.12          | 12 INCH AND UNDER PIPE REMOVED AND RELAID                   |
| 270.15          | 15 INCH PIPE REMOVED AND RELAID                             |
| 270.18          | 18 INCH PIPE REMOVED AND RELAID                             |
| 270.24          | 24 INCH PIPE REMOVED AND RELAID                             |
| 270.3           | 30 INCH PIPE REMOVED AND RELAID                             |
| 270.36          | 36 INCH PIPE REMOVED AND RELAID                             |
| 270.42          | 42 INCH PIPE REMOVED AND RELAID                             |
| 270.48          | 48 INCH PIPE REMOVED AND RELAID                             |
| 270.6           | 60 INCH PIPE REMOVED AND RELAID                             |
| 271.12          | 12 INCH AND UNDER PIPE REMOVED AND STACKED                  |
| 271.15          | 15 INCH PIPE REMOVED AND STACKED                            |
| 271.18          | 18 INCH PIPE REMOVED AND STACKED                            |
| 271.24          | 24 INCH PIPE REMOVED AND STACKED                            |
| 271.3           | 30 INCH PIPE REMOVED AND STACKED                            |
| 280             | HOT MIX ASPHALT WATERWAY                                    |
| 280.1           | HOT MIX ASPHALT WATERWAY-1                                  |
| 281             | CEMENT CONCRETE PAVING (WATERWAY)                           |
| 281.2           | JUTE MESH (WATERWAYS)                                       |
| 281.3           | GROUTED STONE PAVING (WATERWAYS)                            |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 281.4           | GRouted STONE PAVING (WATERWAYS) - REBUILT                    |
| 281.5           | DUMPED STONE LINING (WATERWAYS)                               |
| 282             | CEMENT CONCRETE PAVING - DITCHES                              |
| 299.98          | OUTLET CONTROL STRUCTURE                                      |
| 299.99          | OIL/DEBRIS TRAP FOR CB  |
| 302.04          | 4 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)                |
| 302.06          | 6 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)                |
| 302.08          | 8 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)                |
| 302.1           | 10 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)               |
| 302.12          | 12 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)               |
| 302.16          | 16 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)               |
| 302.18          | 18 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)               |
| 302.2           | 20 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)               |
| 302.24          | 24 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)               |
| 303.04          | 4 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)             |
| 303.06          | 6 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)             |
| 303.08          | 8 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)             |
| 303.081         | 8 INCH DUCTILE IRON WATER PIPE (RESTRAINED JOINT)             |
| 303.1           | 10 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)            |
| 303.109         | 10 INCH PRE-INSULATED DUCTILE IRON WATER PIPE (PUSH ON JOINT) |
| 303.12          | 12 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)            |
| 303.121         | 12 INCH DUCTIL IRON WATER PIPE (RESTRAINT JOINT)              |
| 303.16          | 16 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)            |
| 303.18          | 18 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)            |
| 303.2           | 20 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)            |
| 303.24          | 24 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)            |
| 304.12          | 12 INCH STRUCTURAL STEEL WATER PIPE                           |
| 309             | DUCTILE IRON FITTINGS FOR WATER PIPE                          |
| 313.04          | 4 INCH WATER MAIN REMOVED AND RELAID                          |
| 313.06          | 6 INCH WATER MAIN REMOVED AND RELAID                          |
| 313.08          | 8 INCH WATER MAIN REMOVED AND RELAID                          |
| 313.1           | 10 INCH WATER MAIN REMOVED AND RELAID                         |
| 313.12          | 12 INCH WATER MAIN REMOVED AND RELAID                         |

| Cost Account ID | Cost Account Name                         |
|-----------------|---|
| 313.16          | 16 INCH WATER MAIN REMOVED AND RELAID     |
| 313.18          | 18 INCH WATER MAIN REMOVED AND RELAID     |
| 313.2           | 20 INCH WATER MAIN REMOVED AND RELAID     |
| 313.24          | 24 INCH WATER MAIN REMOVED AND RELAID     |
| 315.04          | 4 INCH WATER MAIN REMOVED AND STACKED     |
| 315.06          | 6 INCH WATER MAIN REMOVED AND STACKED     |
| 315.08          | 8 INCH WATER MAIN REMOVED AND STACKED     |
| 315.1           | 10 INCH WATER MAIN REMOVED AND STACKED    |
| 315.12          | 12 INCH WATER MAIN REMOVED AND STACKED    |
| 315.16          | 16 INCH WATER MAIN REMOVED AND STACKED    |
| 315.18          | 18 INCH WATER MAIN REMOVED AND STACKED    |
| 315.2           | 20 INCH WATER MAIN REMOVED AND STACKED    |
| 315.24          | 24 INCH WATER MAIN REMOVED AND STACKED    |
| 325.06          | 6 INCH STEEL PIPE CASING FOR WATER PIPE   |
| 325.08          | 8 INCH STEEL PIPE CASING FOR WATER PIPE   |
| 325.1           | 10 INCH STEEL PIPE CASING FOR WATER PIPE  |
| 325.12          | 12 INCH STEEL PIPE CASING FOR WATER PIPE  |
| 325.16          | 16 INCH STEEL PIPE CASING FOR WATER PIPE  |
| 325.18          | 18 INCH STEEL PIPE CASING FOR WATER PIPE  |
| 325.2           | 20 INCH STEEL PIPE CASING FOR WATER PIPE  |
| 325.24          | 24 INCH STEEL PIPE CASING FOR WATER PIPE  |
| 326.08          | 8 INCH WATER PIPE BRIDGE CROSSING         |
| 327.02          | 2 INCH BLOW OFF PIPE                      |
| 327.03          | 3 INCH BLOW-OFF PIPE                      |
| 327.04          | 4 INCH BLOW-OFF PIPE                      |
| 327.06          | 6 INCH BLOW-OFF PIPE                      |
| 327.08          | 8 INCH BLOW-OFF PIPE                      |
| 327.1           | 10 INCH BLOW-OFF PIPE                     |
| 327.12          | 12 INCH BLOW-OFF PIPE                     |
| 336.1           | 1 INCH PLASTIC WATER PIPE                 |
| 345.075         | 3/4 INCH TEMPORARY SERVICE PIPE           |
| 345.1           | 1 INCH TEMPORARY SERVICE PIPE             |
| 345.151         | 1-1/2 INCH TEMPORARY SERVICE PIPE         |
| 345.6           | 6 INCH TEMPORARY SERVICE PIPE             |
| 345.65          | CONSTRUCTION PERIOD WATER SYSTEMS         |
| 346.05          | 1/2 INCH SERVICE PIPE REMOVED AND RESET   |
| 346.075         | 3/4 INCH SERVICE PIPE REMOVED AND RESET   |
| 346.1           | 1 INCH SERVICE PIPE REMOVED AND RESET     |
| 346.15          | 1-1/2 INCH SERVICE PIPE REMOVED AND RESET |
| 346.2           | 2 INCH SERVICE PIPE REMOVED AND RESET     |
| 347.075         | 3/4 INCH COPPER TUBING TYPE K             |
| 347.1           | 1 INCH COPPER TUBING TYPE K               |
| 347.125         | 1-1/4 INCH COPPER TUBING TYPE K           |
| 347.15          | 1-1/2 INCH COPPER TUBING TYPE K           |
| 347.2           | 2 INCH COPPER TUBING TYPE K               |
| 349.04          | 4 INCH GATE VALVE                         |
| 349.06          | 6 INCH GATE VALVE                         |
| 349.08          | 8 INCH GATE VALVE                         |
| 349.1           | 10 INCH GATE VALVE                        |

| Cost Account ID | Cost Account Name                                     |
|-----------------|---|
| 349.12          | 12 INCH GATE VALVE                                    |
| 349.16          | 16 INCH GATE VALVE                                    |
| 349.18          | 18 INCH GATE VALVE                                    |
| 349.2           | 20 INCH GATE VALVE                                    |
| 349.24          | 24 INCH GATE VALVE                                    |
| 350.04          | 4 INCH GATE AND GATE BOX                              |
| 350.06          | 6 INCH GATE AND GATE BOX                              |
| 350.08          | 8 INCH GATE AND GATE BOX                              |
| 350.1           | 10 INCH GATE AND GATE BOX                             |
| 350.12          | 12 INCH GATE AND GATE BOX                             |
| 350.16          | 16 INCH GATE AND GATE BOX                             |
| 350.18          | 18 INCH GATE AND GATE BOX                             |
| 350.2           | 20 INCH GATE AND GATE BOX                             |
| 350.24          | 24 INCH GATE AND GATE BOX                             |
| 351.12          | 12 INCH AND UNDER GATE AND GATE BOX REMOVED AND RESET |
| 351.16          | 16 INCH GATE AND GATE BOX REMOVED AND RESET           |
| 351.18          | 18 INCH GATE AND GATE BOX REMOVED AND RESET           |
| 351.2           | 20 INCH GATE AND GATE BOX REMOVED AND RESET           |
| 351.24          | 24 INCH GATE AND GATE BOX REMOVED AND RESET           |
| 354.12          | 12 INCH AND UNDER GATE BOX REMOVED AND RESET          |
| 354.16          | 16 INCH GATE BOX REMOVED AND RESET                    |
| 354.18          | 18 INCH GATE BOX REMOVED AND RESET                    |
| 354.2           | 20 INCH GATE BOX REMOVED AND RESET                    |
| 354.24          | 24 INCH GATE BOX REMOVED AND RESET                    |
| 355.06          | 6 INCH GATE + GATE BOX REMOVED AND STACKED            |
| 355.08          | 8 INCH GATE + GATE BOX REMOVED AND STACKED            |
| 355.1           | 10 INCH GATE + GATE BOX REMOVED AND STACKED           |
| 356.12          | 12 INCH BUTTERFLY VALVE AND BOX                       |
| 356.16          | 16 INCH BUTTERFLY VALVE AND BOX                       |
| 356.2           | 20 INCH BUTTERFLY VALVE AND BOX                       |
| 356.24          | 24 INCH BUTTERFLY VALVE AND BOX                       |
| 357.04          | 4 INCH GATE BOX                                       |
| 357.06          | 6 INCH GATE BOX                                       |
| 357.08          | 8 INCH GATE BOX                                       |
| 357.1           | 10 INCH GATE BOX                                      |
| 357.12          | 12 INCH GATE BOX                                      |
| 357.16          | 16 INCH GATE BOX                                      |
| 357.18          | 18 INCH GATE BOX                                      |
| 357.2           | 20 INCH GATE BOX                                      |
| 357.24          | 24 INCH GATE BOX                                      |
| 358             | GATE BOX ADJUSTED                                     |
| 358.1           | GATE BOX REMOVED AND STACKED                          |

| Cost Account ID | Cost Account Name                          |
|-----------------|--|
| 363.075         | 3/4 INCH CORPORATION COCK                  |
| 363.1           | 1 INCH CORPORATION COCK                    |
| 363.125         | 1-1/4 INCH CORPORATION COCK                |
| 363.15          | 1-1/2 INCH CORPORATION COCK                |
| 363.175         | 1-3/4 INCH CORPORATION COCK                |
| 363.2           | 2 INCH CORPORATION COCK                    |
| 367.04          | 4 INCH CAST IRON PLUG                      |
| 367.06          | 6 INCH CAST IRON PLUG                      |
| 367.08          | 8 INCH CAST IRON PLUG                      |
| 367.1           | 10 INCH CAST IRON PLUG                     |
| 367.12          | 12 INCH CAST IRON PLUG                     |
| 367.16          | 16 INCH CAST IRON PLUG                     |
| 367.18          | 18 INCH CAST IRON PLUG                     |
| 367.2           | 20 INCH CAST IRON PLUG                     |
| 367.24          | 24 INCH CAST IRON PLUG                     |
| 369.03          | 3 X 3 INCH TAPPING SLEEVE, VALVE AND BOX   |
| 369.06          | 6 X 6 INCH TAPPING SLEEVE, VALVE AND BOX   |
| 369.08          | 8 X 8 INCH TAPPING SLEEVE, VALVE AND BOX   |
| 369.1           | 10 X 10 INCH TAPPING SLEEVE, VALVE AND BOX |
| 369.12          | 12 X 12 INCH TAPPING SLEEVE, VALVE AND BOX |
| 369.14          | 14 X 14 INCH TAPPING SLEEVE, VALVE AND BOX |
| 369.16          | 16 X 16 INCH TAPPING SLEEVE, VALVE AND BOX |
| 369.18          | 18 X 18 INCH TAPPING SLEEVE, VALVE AND BOX |
| 369.2           | 20 X 20 INCH TAPPING SLEEVE, VALVE AND BOX |
| 369.24          | 24 X 24 INCH TAPPING SLEEVE, VALVE AND BOX |
| 370             | 6 X 3 INCH TAPPING SLEEVE, VALVE AND BOX   |
| 370.1           | 8 X 6 INCH TAPPING SLEEVE, VALVE AND BOX   |
| 370.2           | 10 X 6 INCH TAPPING SLEEVE, VALVE AND BOX  |
| 370.3           | 10 X 8 INCH TAPPING SLEEVE, VALVE AND BOX  |
| 370.4           | 12 X 6 INCH TAPPING SLEEVE, VALVE AND BOX  |
| 370.5           | 12 X 8 INCH TAPPING SLEEVE, VALVE AND BOX  |
| 370.6           | 12 X 10 INCH TAPPING SLEEVE, VALVE AND BOX |
| 370.7           | 14 X 8 INCH TAPPING SLEEVE, VALVE AND BOX  |
| 370.8           | 14 X 10 INCH TAPPING SLEEVE, VALVE AND BOX |
| 370.9           | 14 X 12 INCH TAPPING SLEEVE, VALVE AND BOX |
| 371.03          | 3 INCH COUPLING                            |
| 371.04          | 4 INCH COUPLING                            |
| 371.06          | 6 INCH COUPLING                            |
| 371.08          | 8 INCH COUPLING                            |
| 371.1           | 10 INCH COUPLING                           |
| 371.12          | 12 INCH COUPLING                           |
| 371.16          | 16 INCH COUPLING                           |
| 371.18          | 18 INCH COUPLING                           |
| 371.2           | 20 INCH COUPLING                           |
| 371.24          | 24 INCH COUPLING                           |
| 373.04          | 4 INCH WATER PIPE INSULATION               |
| 373.06          | 6 INCH WATER PIPE INSULATION               |
| 373.08          | 8 INCH WATER PIPE INSULATION               |
| 373.1           | 10 INCH WATER PIPE INSULATION              |

| Cost Account ID | Cost Account Name                                  |
|-----------------|--|
| 373.12          | 12 INCH WATER PIPE INSULATION                      |
| 373.16          | 16 INCH WATER PIPE INSULATION                      |
| 373.18          | 18 INCH WATER PIPE INSULATION                      |
| 373.2           | 20 INCH WATER PIPE INSULATION                      |
| 373.24          | 24 INCH WATER PIPE INSULATION                      |
| 375.04          | 4 INCH INSERTION VALVE AND BOX                     |
| 375.06          | 6 INCH INSERTION VALVE AND BOX                     |
| 375.08          | 8 INCH INSERTION VALVE AND BOX                     |
| 375.1           | 10 INCH INSERTION VALVE AND BOX                    |
| 375.12          | 12 INCH INSERTION VALVE AND BOX                    |
| 375.4           | DEMOLITION OF EXISTING PIPE CROSSING               |
| 375.5           | PIPE CROSSING                                      |
| 375.6           | TEMPORARY WATERLINE BY PASS                        |
| 376             | HYDRANT  |
| 376.1           | HYDRANT - EXCLUDING COST OF HYDRANT                |
| 376.2           | HYDRANT - REMOVED AND RESET                        |
| 376.3           | HYDRANT - REMOVED AND STACKED                      |
| 376.5           | HYDRANT - ADJUSTED                                 |
| 379.1           | 1 INCH AIR RELEASE VALVE                           |
| 379.15          | 1-1/2 INCH AIR RELEASE VALVE                       |
| 381             | SERVICE BOX  |
| 381.01          | SERVICE BOX (MUNICIPAL STANDARD)                   |
| 381.1           | SERVICE BOX REMOVED AND RESET                      |
| 381.2           | SERVICE BOX REMOVED AND STACKED                    |
| 381.3           | SERVICE BOX ADJUSTED                               |
| 382             | METER BOX  |
| 382.1           | METER BOX REMOVED AND RESET                        |
| 382.2           | METER BOX REMOVED AND STACKED                      |
| 382.3           | METER BOX ADJUSTED                                 |
| 383             | METER CHAMBER                                      |
| 383.2           | METER CHAMBER ADJUSTED                             |
| 383.3           | METER CHAMBER REMOVED AND RESET                    |
| 384             | CURB STOP  |
| 384.1           | CURB STOP REMOVED AND RESET                        |
| 384.2           | CURB STOP ADJUSTED                                 |
| 387             | BLOW-OFF CHAMBER                                   |
| 388             | AIR VALVE CHAMBER                                  |
| 389             | DRINKING FOUNTAIN                                  |
| 389.1           | DRINKING FOUNTAIN REMOVED AND RESET                |
| 390             | IRRIGATION SYSTEM R+R                              |
| 402             | DENSE GRADED CRUSHED STONE FOR SUB-BASE            |
| 402.1           | DENSE GRADED CRUSHED STONE FOR SUB-BASE-1          |
| 402.11          | DENSE GRADED CRUSHED STONE FOR SHOULDERS           |
| 402.12          | DENSE GRADED CRUSHED STONE FOR SHOULDERS-1         |
| 403             | RECLAIMED PAVEMENT FOR BASE COURSE AND/OR SUB-BASE |
| 403.1           | CRUSHED STONE FOR BLENDING                         |

| Cost Account ID | Cost Account Name                                 |
|-----------------|---|
| 404             | PRE-TREATED CRUSHED STONE                         |
| 404.5           | RECLAIMED PAVEMENT BORROW MATERIAL                |
| 415             | PAVEMENT MICROMILLING                             |
| 420             | HOT MIX ASPHALT BASE COURSE                       |
| 430             | CEMENT CONCRETE BASE COURSE                       |
| 431             | HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE   |
| 431.1           | HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE-1 |
| 440             | CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL         |
| 441             | BITUMEN FOR ROADWAY DUST CONTROL                  |
| 443             | WATER FOR ROADWAY DUST CONTROL                    |
| 450             | GRAVEL FOR SURFACING                              |
| 450.9           | CONTRACTOR QUALITY CONTROL                        |
| 451             | HMA FOR PATCHING                                  |
| 452             | ASPHALT EMULSION FOR TACK COAT                    |
| 453             | HMA JOINT SEALANT                                 |
| 454.5           | LATEX MODIFICATION OF HMA                         |
| 455.23          | SUPERPAVE SURFACE COURSE - 12.5                   |
| 455.31          | Superpave intermediate coarse 12.5                |
| 455.32          | SUPERPAVE INTERMEDIATE COURSE - 19.0              |
| 455.42          | SUPERPAVE BASE COURSE - 37.5                      |
| 455.61          | SUPERPAVE BRIDGE SURFACE COURSE - 12.5            |
| 455.71          | SUPERPAVE BRIDGE PROTECTIVE COURSE - 12.5         |
| 456             | CRUSHED STONE FOR ROAD-MIX SURFACING              |
| 458             | CRUSHED STONE FOR MACADAM SURFACING               |
| 458.1           | CRUSHED STONE FOR WEARING SURFACING               |
| 458.2           | STONE GRITS FOR SURFACE COVER                     |
| 458.6           | CRUSHED STONE BALLAST                             |
| 458.7           | LIGHTWEIGHT AGGREGATE                             |
| 459             | BITUMEN FOR ROADWAY BASE COURSE                   |
| 459.1           | BITUMEN FOR SURFACING TREATMENT                   |
| 459.2           | BITUMEN FOR ROAD-MIX SURFACING                    |
| 459.3           | BITUMEN FOR MACADAM SURFACING                     |
| 459.4           | BITUMEN FOR SEAL COAT                             |
| 459.5           | BITUMEN FOR WEARING SURFACE                       |
| 459.6           | BITUMEN FOR CURING                                |
| 459.7           | RECLAIMED BITUMEN BASE                            |
| 460             | HOT MIX ASPHALT                                   |
| 460.1           | HOT MIX ASPHALT DENSE BINDER                      |
| 460.2           | HOT MIX ASPHALT OPEN GRADED FRICTION COURSE       |
| 460.7           | CONTRACTOR QUALITY CONTROL - HOT MIX ASPHALT      |
| 460.72          | CONTRACTOR TESTING FOR HMA ACCEPTANCE             |
| 461             | HOT MIX ASPHALT, TYPE ST                          |
| 462             | HOT MIX ASPHALT DENSE BINDER COURSE FOR BRIDGES   |
| 463             | BITUMEN FOR PRIME COAT                            |
| 464             | BITUMEN FOR TACK COAT                             |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 464.5           | HOT POURED RUBBERIZED ASPHALT SEALER                      |
| 466             | STRESS ABSORBING MEMBRANE INTERLAYER                      |
| 468             | CRUSHED STONE FOR PEASTONE COVER                          |
| 469             | BITUMEN FOR PEASTONE COVER                                |
| 470             | HOT MIX ASPHALT BERM, TYPE A                              |
| 470.1           | HOT MIX ASPHALT BERM, TYPE A-1                            |
| 470.2           | HOT MIX ASPHALT BERM, TYPE A - MODIFIED                   |
| 472             | HOT MIX ASPHALT FOR MISCELLANEOUS WORK                    |
| 476             | CEMENT CONCRETE PAVEMENT                                  |
| 476.1           | CEMENT CONCRETE PAVEMENT-1                                |
| 476.2           | HIGH EARLY STRENGTH CEMENT CONCRETE PAVEMENT              |
| 476.21          | HIGH EARLY STRENGTH CEMENT CONCRETE PAVEMENT-3758         |
| 476.31          | POLYMER MODIFIED MORTAR OVERLAYMENT                       |
| 476.32          | POLYMER MODIFIED CONCRETE OVERLAYMENT                     |
| 476.35          | EPOXY WATERPROOFING OVERLAY                               |
| 477             | MILLED RUMBLE STRIP                                       |
| 481.42          | ELASTOMERIC BRIDGE JOINT SYSTEM                           |
| 482             | HOT APPLIED ASPHALTIC CRACK FILLER                        |
| 482.01          | HOT APPLIED ASPHALTIC CRACK FILLER-1                      |
| 482.15          | HOT APPLIED ASPHALTIC CRACK FILLER (POLYESTER FIBERS)     |
| 482.17          | HOT APPLIED RUBBERIZED ASPHALTIC CRACK FILLER             |
| 482.2           | HOT POURED JOINT SEALER                                   |
| 482.25          | ROUTING, DRYING, AND SEALING CRACKS IN EXISTING PAVEMENT  |
| 482.3           | SAWING ASPHALT PAVEMENT                                   |
| 482.31          | SAWING & SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES    |
| 482.32          | SAWING AND SEALING JOINTS IN ASPHALT PAVEMENT             |
| 482.4           | SAWING CEMENT CONCRETE                                    |
| 483.2           | SEALING ASPHALT PAVEMENT SURFACE CRACKS                   |
| 484             | REHABILITATING EXISTING ASPHALT PAVEMENT                  |
| 485             | GRANITE RUBBLE BLOCK PAVEMENT                             |
| 485.1           | GRANITE RUBBLE BLOCK PAVEMENT REMOVED AND RESET           |
| 485.11          | GRANITE RUBBLE BLOCK PAVEMENT REMOVED AND STACKED         |
| 485.2           | GRANITE RUBBLE BLOCK PAVEMENT EXCL. COST OF CONCRETE BASE |
| 486             | SCORED CEMENT CONCRETE PAVEMENT                           |
| 486.1           | SCORED CEMENT CONCRETE PAVEMENT-1                         |
| 490             | RUBBERIZED RAILROAD CROSSING                              |
| 501             | GRANITE CURB TYPE VA1 - STRAIGHT                          |
| 501.1           | GRANITE CURB TYPE VA1 - CURVED                            |
| 502             | GRANITE CURB TYPE VA2 - STRAIGHT                          |
| 502.1           | GRANITE CURB TYPE VA2 - CURVED                            |
| 503             | GRANITE CURB TYPE VA3 - STRAIGHT                          |
| 503.1           | GRANITE CURB TYPE VA3 - CURVED                            |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 504             | GRANITE CURB TYPE VA4 - STRAIGHT                             |
| 504.1           | GRANITE CURB TYPE VA4 - CURVED                               |
| 504.2           | GRANITE CURB TYPE VA4 - SPLAYED END                          |
| 505             | GRANITE CURB TYPE VA5 - STRAIGHT                             |
| 505.1           | GRANITE CURB TYPE VA5 - CURVED                               |
| 506             | GRANITE CURB TYPE VB - STRAIGHT                              |
| 506.1           | GRANITE CURB TYPE VB - CURVED                                |
| 506.3           | GRANITE CURB TY VB - TRANS END                               |
| 509             | GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - STRAIGHT      |
| 509.1           | GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - CURVED        |
| 509.12          | GRANITE TRANSITION CURB FOR SLOPED TO VERTICAL BURB          |
| 509.13          | GRANITE TRANSITION CURB FOR BRIDGE TO HIGHWAY CURB           |
| 509.99          | GRANITE TRANSITION CURV TYPE 1                               |
| 510             | GRANITE EDGING TYPE SA                                       |
| 510.1           | GRANITE EDGING TYPE SA (RADIUS 10 FEET OR LESS)              |
| 511.1           | GRANITE EDGING TYPE SB - STRAIGHT                            |
| 512.1           | GRANITE EDGING TYPE SB (RADIUS 10 FEET OR LESS)              |
| 513             | GRANITE EDGING TYPE SC                                       |
| 513.1           | GRANITE EDGING TYPE SC (RADIUS 10 FEET OR LESS)              |
| 514             | GRANITE CURB INLET - STRAIGHT                                |
| 514.01          | GRANITE CURB INLET - STRAIGHT - EXCLUDING COST OF CURB INLET |
| 514.2           | GRANITE CURB INLET - STRAIGHT- MUNICIPAL STANDARD            |
| 515             | GRANITE CURB INLET - CURVED                                  |
| 515.1           | GRANITE CURB INLET - CURVED - MUNICIPAL STANDARD             |
| 516             | GRANITE CURB CORNER TYPE A                                   |
| 517             | GRANITE CURB CORNER TYPE B                                   |
| 517.01          | GRANITE CURB CORNER - TYPE C                                 |
| 518             | CONCRETE CURB INLET - STRAIGHT                               |
| 519             | CONCRETE CURB INLET - CURVED                                 |
| 520             | CONCRETE CURB TYPE VA  |
| 520.1           | CONCRETE CURB TYPE VA - PRECAST                              |
| 520.11          | SPECIAL CONCRETE CURB - CAST IN PLACE                        |
| 520.12          | CONCRETE CURB STOP REMOVED AND RESET                         |
| 520.2           | SPECIAL CONCRETE CURB - PRECAST                              |
| 521             | CONCRETE CURB CORNER TYPE A                                  |
| 521.1           | CONCRETE CURB CORNER TYPE B                                  |
| 522             | CONCRETE EDGING TYPE SA                                      |
| 570             | HOT MIX ASPHALT CURB - OPTION                                |
| 570.1           | HOT MIX ASPHALT CURB TYPE 1                                  |
| 570.2           | HOT MIX ASPHALT CURB TYPE 2                                  |
| 570.3           | HOT MIX ASPHALT CURB TYPE 3                                  |
| 572             | HOT MIX ASPHALT CURB - OPTION-1                              |

| Cost Account ID | Cost Account Name                                    |
|-----------------|--|
| 572.1           | HOT MIX ASPHALT CURB TYPE 1-1                        |
| 572.2           | HOT MIX ASPHALT CURB TYPE 2-1                        |
| 572.3           | HOT MIX ASPHALT CURB TYPE 3-1                        |
| 580             | CURB REMOVED AND RESET                               |
| 580.1           | CURB REMOVED, RELOCATED AND RESET                    |
| 581             | CURB INLET REMOVED AND RESET                         |
| 581.1           | CURB INLET REMOVED, RELOCATED AND RESET              |
| 582             | CURB CORNER REMOVED AND RESET                        |
| 582.1           | CURB CORNER - EXCLUDING COST OF CURB CORNER          |
| 582.2           | CURB CORNER REMOVED, RELOCATED AND RESET             |
| 583             | EDGING REMOVED AND RESET                             |
| 590             | CURB REMOVED AND STACKED                             |
| 590.1           | CONCRETE CURB BARRIER REMOVED AND STACKED            |
| 590.2           | CONCRETE CURB BARRIER REMOVED AND RESET              |
| 591             | CURB INLET REMOVED AND STACKED                       |
| 592             | CURB CORNER REMOVED AND STACKED                      |
| 593             | EDGING REMOVED AND STACKED                           |
| 594             | CURB REMOVED AND DISCARDED                           |
| 595             | CURB INLET REMOVED AND DISCARDED                     |
| 596             | CURB CORNER REMOVED AND DISCARDED                    |
| 597             | EDGING REMOVED AND DISCARDED                         |
| 602             | GUARDRAIL POST - STEEL                               |
| 602.1           | GUARDRAIL POST - WOOD                                |
| 602.11          | GUARDRAIL POST - STEEL (EXTRA DEEP)                  |
| 603.1           | STEEL OFFSET BRACKET - W BEAM                        |
| 603.2           | STEEL OFFSET BRACKET - THRIE BEAM                    |
| 603.3           | GUARDRAIL OFFSET BLOCK FOR STEEL POST - W BEAM       |
| 603.4           | GUARDRAIL OFFSET BLOCK FOR WOOD POST - W BEAM        |
| 603.5           | GUARDRAIL OFFSET BLOCK FOR STEEL POST - THRIE BEAM   |
| 603.6           | GUARDRAIL OFFSET BLOCK FOR WOOD POST - THRIE BEAM    |
| 604             | W BEAM GUARD PANEL                                   |
| 604.1           | THRIE BEAM GUARD PANEL                               |
| 620.1           | STEEL W BEAM HIGHWAY GUARD (SINGLE FACED)            |
| 620.2           | WEATHERING STEEL W BEAM GUARD - (SF)                 |
| 620.3           | STEEL W BEAM HIGHWAY GUARD - CURVED (SINGLE FACED)   |
| 620.31          | STEEL W BEAM HIGHWAY GUARDRAIL CURVER (SINGEL FACE)  |
| 620.35          | WEATHERING STEEL W BEAM GUARD - CURVED (SF)          |
| 620.4           | STEEL W BEAM HIGHWAY GUARD BURIED END (SINGLE FACED) |
| 621.1           | STEEL W BEAM HIGHWAY GUARD (DOUBLE FACED)            |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 621.3           | STEEL W BEAM HIGHWAY GUARD - CURVED (DOUBLE FACED)           |
| 621.4           | STEEL W BEAM HIGHWAY GUARD BURIED END (DOUBLE FACED)         |
| 622.1           | STEEL W BEAM HIGHWAY GUARD (SINGLE FACED/WOOD POSTS)         |
| 622.11          | STEEL W BEAM HWY GUARD                                       |
| 622.2           | WEATHERING STEEL W BEAM GUARD - (SF/WP)                      |
| 622.3           | STEEL W BEAM HIGHWAY GUARD - CURVED(SINGLE FACED/WOOD POSTS) |
| 622.35          | WEATHERING STEEL W BEAM GUARD - CURVED (SF/WP)               |
| 622.4           | STEEL W BEAM HIGHWAY GUARD BURIED END(SF/WOOD POSTS)         |
| 622.41          | STEEL W BEAM HWY GUARD BURIED END                            |
| 623.1           | STEEL THRIE BEAM HIGHWAY GUARD (SINGLE FACED)                |
| 623.3           | STEEL THRIE BEAM HIGHWAY GUARD - CURVED (SINGLE FACED)       |
| 623.4           | STEEL THRIE BEAM HIGHWAY GUARD BURIED END (SINGLE FACED)     |
| 624.1           | STEEL THRIE BEAM HIGHWAY GUARD (DOUBLE FACED)                |
| 624.3           | STEEL THRIE BEAM HIGHWAY GUARD - CURVED (DOUBLE FACED)       |
| 624.4           | STEEL THRIE BEAM HIGHWAY GUARD BURIED END (DOUBLE FACED)     |
| 625.1           | STEEL THRIE BEAM HIGHWAY GUARD (SINGLE FACED/WOOD POSTS)     |
| 625.3           | STEEL THRIE BEAM HIGHWAY GUARD - CURVED (SF/WOOD POSTS)      |
| 625.4           | STEEL THRIE BEAM HIGHWAY GUARD BURIED END (SF/WOOD POSTS)    |
| 626.1           | STEEL W BEAM HIGHWAY GUARD (SINGLE FACED/SP BASE ANCHOR)     |
| 626.2           | STEEL W BEAM HIGHWAY GUARD (DOUBLE FACED/SP BASE ANCHOR)     |
| 626.3           | STEEL THRIE BEAM HIGHWAY GUARD (SINGLE FACED/SP BASE ANCHOR) |
| 626.4           | STEEL THRIE BEAM HIGHWAY GUARD (DOUBLE FACED/SP BASE ANCHOR) |
| 627.1           | STEEL W BEAM TERMINAL SECTION (SINGLE FACED)                 |
| 627.11          | WEATHERING STEEL W BEAM TERM SECTION                         |
| 627.2           | STEEL W BEAM TERMINAL SECTION (DOUBLE FACED)                 |
| 627.3           | STEEL THRIE BEAM TERMINAL SECTION (SINGLE FACED)             |
| 627.4           | STEEL THRIE BEAM TERMINAL SECTION (DOUBLE FACED)             |
| 627.5           | STEEL THRIE BEAM TERMINAL CONNECTOR                          |
| 627.6           | STEEL HIGHWAY GUARD TRANSITION BEAM                          |
| 627.61          | STEEL HIGHWAY GUARD BEAM                                     |
| 627.8           | STEEL BEAM HIGHWAY GUARD TANGENT END TREATMENT               |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 627.81          | WEATHERING STEEL BEAM GUARD TANGENT END TREATMENT          |
| 627.9           | STEEL BEAM HIGHWAY GUARD FLARED END TREATMENT              |
| 627.91          | STEEL BEAM HIGHWAY GUARD FLARED END TREATMENT (SHORT)      |
| 628             | LEADING END FOR STEEL THRIE BEAM HIGHWAY GUARD AT BRIDGE   |
| 628.01          | TRAILING END FOR STEEL THRIE BEAM HIGHWAY GUARD AT BRIDGE  |
| 628.1           | LEADING END FOR STEEL BEAM HIGHWAY GUARD AT BRIDGE         |
| 628.11          | TRAILING END FOR STEEL BEAM HIGHWAY GUARD AT BRIDGE        |
| 628.2           | BRIDGE RAIL TO HIGHWAY GUARD RAIL TRANSITION               |
| 628.21          | BRIDGE RAIL TO HIGHWAY GUARD RAIL                          |
| 628.22          | BRIDGE RAIL TO HIGHWAY GUARD RAIL TRANSITION (BASE ANCHOR) |
| 628.31          | IMPACT ATTENUATOR FOR SHOULDER, INCAPABLE OF REDIRECTION   |
| 628.32          | IMPACT ATTENUATOR FOR SHOULDER, CAPABLE OF REDIRECTION     |
| 628.33          | IMPACT ATTENUATOR FOR MEDIAN, INCAPABLE OF REDIRECTION     |
| 628.34          | IMPACT ATTENUATOR FOR MEDIAN, CAPABLE OF REDIRECTION       |
| 628.39          | IMPACT ATTENUATOR - SPECIAL                                |
| 629.1           | PRECAST CONCRETE BARRIER - SINGLE FACED                    |
| 629.2           | PRECAST CONCRETE MEDIAN BARRIER - DOUBLE FACED             |
| 629.3           | CAST-IN-PLACE CONCRETE BARRIER - SINGLE FACED              |
| 629.4           | CAST-IN-PLACE CONCRETE MEDIAN BARRIER - DOUBLE FACED       |
| 629.5           | CAST-IN-PLACE MEDIAN BARRIER CAP                           |
| 630             | HIGHWAY GUARD REMOVED AND RESET                            |
| 630.1           | HIGHWAY GUARD REMOVED AND RESET BY FIELD DRILLING          |
| 632             | INDIVIDUAL POST REMOVED AND RESET                          |
| 632.1           | INDIVIDUAL POST REALIGNED                                  |
| 633             | NEW POST IN HIGHWAY GUARD REMOVED AND RESET                |
| 634             | HARDWARE FOR GUARDRAIL ASSEMBLY                            |
| 635             | HIGHWAY GUARD REMOVED AND STACKED                          |
| 635.1           | HIGHWAY GUARD REMOVED AND DISCARDED                        |
| 636             | ANCHOR REMOVED AND STACKED                                 |
| 637             | INDIVIDUAL POST REMOVED AND STACKED                        |
| 637.1           | INDIVIDUAL POST REMOVED AND DISCARDED                      |
| 638.1           | PROTECTIVE SCREEN (CHAIN LINK)                             |
| 638.11          | PROTECTIVE SCREEN (CHAIN LINK) WITH HANDRAIL               |
| 638.2           | PROTECTIVE SCREEN FOR PEDESTRIAN OVERPASS                  |
| 639             | TIMBER RAIL FENCE  |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 644.036         | 36 INCH CHAIN LINK FENCE (STW) (LINE POST OPTION)            |
| 644.048         | 48 INCH CHAIN LINK FENCE (STW) (LINE POST OPTION)            |
| 644.06          | 60 INCH CHAIN LINK FENCE (STW) (LINE POST OPTION)            |
| 644.072         | 72 INCH CHAIN LINK FENCE (STW) (LINE POST OPTION)            |
| 644.084         | 84 INCH CHAIN LINK FENCE (STW) (LINE POST OPTION)            |
| 644.096         | 96 INCH CHAIN LINK FENCE (STW) (LINE POST OPTION)            |
| 644.097         | 120 INCH CHAIN LINK FENCE (STW) (LINE POST OPTION)           |
| 644.098         | 144 INCH CHAIN LINK FENCE (STW) (LINE POST OPTION)           |
| 644.136         | 36 INCH CHAIN LINK FENCE (STW) VINYL COATED (LINE POST OPT.) |
| 644.148         | 48 INCH CHAIN LINK FENCE (STW) VINYL COATED (LINE POST OPT.) |
| 644.16          | 60 INCH CHAIN LINK FENCE (STW) VINYL COATED (LINE POST OPT.) |
| 644.172         | 72 INCH CHAIN LINK FENCE (STW) VINYL COATED (LINE POST OPT.) |
| 644.184         | 84 INCH CHAIN LINK FENCE (STW) VINYL COATED (LINE POST OPT.) |
| 644.196         | 96 INCH CHAIN LINK FENCE (STW) VINYL COATED (LINE POST OPT.) |
| 644.197         | 120 IN. CHAIN LINK FENCE (STW) VINYL COATED (LINE POST OPT.) |
| 644.198         | 144 IN. CHAIN LINK FENCE (STW) VINYL COATED (LINE POST OPT.) |
| 645.036         | 36 INCH CHAIN LINK FENCE (PIPE TOP RAIL) (LINE POST OPTION)  |
| 645.048         | 48 INCH CHAIN LINK FENCE (PIPE TOP RAIL) (LINE POST OPTION)  |
| 645.06          | 60 INCH CHAIN LINK FENCE (PIPE TOP RAIL) (LINE POST OPTION)  |
| 645.072         | 72 INCH CHAIN LINK FENCE (PIPE TOP RAIL) (LINE POST OPTION)  |
| 645.084         | 84 INCH CHAIN LINK FENCE (PIPE TOP RAIL) (LINE POST OPTION)  |
| 645.096         | 96 INCH CHAIN LINK FENCE (PIPE TOP RAIL) (LINE POST OPTION)  |
| 645.097         | 120 INCH CHAIN LINK FENCE (PIPE TOP RAIL) (LINE POST OPTION) |
| 645.098         | 144 INCH CHAIN LINK FENCE (PIPE TOP RAIL) (LINE POST OPTION) |
| 645.137         | 36 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) |
| 645.148         | 48 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) |
| 645.16          | 60 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) |
| 645.172         | 72 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 645.184         | 84 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) |
| 645.196         | 96 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) |
| 645.197         | 120 IN. CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) |
| 645.198         | 144 IN. CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) |
| 647.036         | 36 IN. CHAIN LINK FENCE (PTR) W/BARB (LINE POST OPTION)      |
| 647.048         | 48 INCH CHAIN LINK FENCE (PTR) W/BARB (LINE POST OPTION)     |
| 647.06          | 60 INCH CHAIN LINK FENCE (PTR) W/BARB (LINE POST OPTION)     |
| 647.072         | 72 INCH CHAIN LINK FENCE (PTR) W/BARB (LINE POST OPTION)     |
| 647.084         | 84 INCH CHAIN LINK FENCE (PTR) W/BARB (LINE POST OPTION)     |
| 647.096         | 96 INCH CHAIN LINK FENCE (PTR) W/BARB (LINE POST OPTION)     |
| 647.12          | 120 INCH CHAIN LINK FENCE (PTR) W/BARB (LINE POST OPTION)    |
| 647.144         | 144 INCH CHAIN LINK FENCE (PTR) W/BARB (LINE POST OPTION)    |
| 649.036         | 36 INCH CHAIN LINK FENCE (STW) W/BARB (LINE POST OPTION)     |
| 649.048         | 48 INCH CHAIN LINK FENCE (STW) W/BARB (LINE POST OPTION)     |
| 649.06          | 60 INCH CHAIN LINK FENCE (STW) W/BARB (LINE POST OPTION)     |
| 649.072         | 72 INCH CHAIN LINK FENCE (STW) W/BARB (LINE POST OPTION)     |
| 649.084         | 84 INCH CHAIN LINK FENCE (STW) W/BARB (LINE POST OPTION)     |
| 649.096         | 96 INCH CHAIN LINK FENCE (STW) W/BARB (LINE POST OPTION)     |
| 649.12          | 120 INCH CHAIN LINK FENCE (STW) W/BARB (LINE POST OPTION)    |
| 649.144         | 144 INCH CHAIN LINK FENCE (STW) W/BARB (LINE POST OPTION)    |
| 650.036         | 36 INCH CHAIN LINK GATE WITH GATE POSTS                      |
| 650.048         | 48 INCH CHAIN LINK GATE WITH GATE POSTS                      |
| 650.06          | 60 INCH CHAIN LINK GATE WITH GATE POSTS                      |
| 650.072         | 72 INCH CHAIN LINK GATE WITH GATE POSTS                      |
| 650.084         | 84 INCH CHAIN LINK GATE WITH GATE POSTS                      |
| 650.096         | 96 INCH CHAIN LINK GATE WITH GATE POSTS                      |
| 650.12          | 120 INCH CHAIN LINK GATE WITH GATE POSTS                     |
| 650.144         | 144 INCH CHAIN LINK GATE WITH GATE POSTS                     |
| 651.06          | 60 INCH CHAIN LINK GATE WITH GATE POSTS AND BARBED WIRE      |
| 651.072         | 72 INCH CHAIN LINK GATE WITH GATE POSTS AND BARBED WIRE      |
| 651.084         | 84 INCH CHAIN LINK GATE WITH GATE POSTS AND BARBED WIRE      |
| 651.096         | 96 INCH CHAIN LINK GATE WITH GATE POSTS AND BARBED WIRE      |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 651.12          | 120 INCH CHAIN LINK GATE WITH GATE POSTS AND BARBED WIRE    |
| 651.144         | 144 INCH CHAIN LINK GATE WITH GATE POSTS AND BARBED WIRE    |
| 652.036         | 36 INCH CHAIN LINK FENCE END POST                           |
| 652.048         | 48 INCH CHAIN LINK FENCE END POST                           |
| 652.06          | 60 INCH CHAIN LINK FENCE END POST                           |
| 652.072         | 72 INCH CHAIN LINK FENCE END POST                           |
| 652.084         | 84 INCH CHAIN LINK FENCE END POST                           |
| 652.096         | 96 INCH CHAIN LINK FENCE END POST                           |
| 652.12          | 120 INCH CHAIN LINK FENCE END POST                          |
| 652.144         | 144 INCH CHAIN LINK FENCE END POST                          |
| 653.036         | 36 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST  |
| 653.048         | 48 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST  |
| 653.06          | 60 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST  |
| 653.072         | 72 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST  |
| 653.084         | 84 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST  |
| 653.096         | 96 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST  |
| 653.12          | 120 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST |
| 653.144         | 144 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST |
| 654.03          | 30 INCH CHAIN LINK FENCE FABRIC                             |
| 654.036         | 36 INCH CHAIN LINK FENCE FABRIC                             |
| 654.048         | 48 INCH CHAIN LINK FENCE FABRIC                             |
| 654.06          | 60 INCH CHAIN LINK FENCE FABRIC                             |
| 654.072         | 72 INCH CHAIN LINK FENCE FABRIC                             |
| 654.084         | 84 INCH CHAIN LINK FENCE FABRIC                             |
| 654.096         | 96 INCH CHAIN LINK FENCE FABRIC                             |
| 654.12          | 120 INCH CHAIN LINK FENCE FABRIC                            |
| 654.144         | 144 INCH CHAIN LINK FENCE FABRIC                            |
| 655             | CEDAR RAIL FENCE  |
| 655.1           | IRON PIPE FENCE   |
| 655.11          | STEEL PIPE GATE   |
| 655.2           | ORNAMENTAL HAND RAIL  |
| 655.3           | ORNAMENTAL FENCE - WALL MOUNTED                             |
| 657             | TEMPORARY FENCE   |
| 657.1           | TEMPORARY FENCE ON BARRIER                                  |
| 657.5           | TEMPORARY FENCE REMOVED AND RESET                           |
| 658             | INDIVIDUAL LINE POST - OPTION                               |
| 660             | METAL PIPE RAIL   |
| 665             | CHAIN LINK FENCE REMOVED AND STACKED                        |
| 665.1           | CHAIN LINK FENCE ADJUST AND PAINT                           |
| 665.2           | 30 INCH CHAIN LINK FENCE CLEAN AND PAINT                    |
| 666             | CHAIN LINK FENCE REMOVED AND RESET                          |

| Cost Account ID | Cost Account Name                                       |
|-----------------|---|
| 667             | CHAIN LINK FENCE GATE W/GATE POSTS REMOVED & STACKED    |
| 668             | CHAIN LINK FENCE GATE W/GATE POSTS REMOVED & RESET      |
| 669             | FENCE REMOVED AND STACKED                               |
| 669.1           | FENCE REMOVED AND DISPOSED                              |
| 669.5           | FENCE REMOVED AND DISCARDED                             |
| 670             | FENCE REMOVED AND RESET                                 |
| 671             | FENCE GATE AND GATE POSTS REMOVED AND STACKED           |
| 672             | FENCE GATE AND GATE POSTS REMOVED AND RESET             |
| 672.1           | IRON BAR GATE AND POSTS REMOVED AND DISCARDED           |
| 673             | FENCE GATE AND GATE POSTS                               |
| 675             | PERMANENT BARRIER FENCE                                 |
| 675.1           | PERMANENT BARRIER FENCE REMOVED AND RESET               |
| 677             | PORTABLE BARRIER FENCE (LEFT-IN-PLACE)                  |
| 680.3           | 30 INCH YELLOW MODULE CONTAINER                         |
| 680.36          | 36 INCH YELLOW MODULE CONTAINER                         |
| 681.24          | 24 INCH ANTI-GLARE SCREEN (MODULAR UNITS) - PADDLE TYPE |
| 681.36          | 36 INCH ANTI-GLARE SCREEN (MODULAR UNITS) - PADDLE TYPE |
| 681.48          | 48 INCH ANTI-GLARE SCREEN (MODULAR UNITS) - PADDLE TYPE |
| 684             | STONE MASONRY STAIRS REMOVED AND RESET IN CEMENT MORTAR |
| 685             | STONE MASONRY WALL IN CEMENT MORTAR                     |
| 685.1           | STONE MASONRY WALL, DRY                                 |
| 685.2           | STONE MASONRY POST REMOVED AND REBUILT                  |
| 690             | STONE MASONRY WALL REMOVED AND REBUILT IN CEMENT MORTAR |
| 690.01          | STONE MASONRY BARRIER RECONSTRUCTION                    |
| 690.02          | STONE MASONRY BARRIER REPAIR                            |
| 690.03          | REBUILD TOP OF STONE MASONRY WINGWALL                   |
| 690.04          | STONE MASONRY WALL RECONSTRUCTION                       |
| 690.05          | STONE MASONRY WALL REPAIR                               |
| 690.06          | STONE ABUTMENT WALL REPAIR                              |
| 690.07          | ARCH RING STONE REPAIR                                  |
| 690.1           | STONE MASONRY WALL REMOVED AND REBUILT DRY              |
| 690.2           | STONE MASONRY WALL REBUILT IN MORTAR AT NE WALL         |
| 691             | BALANCE STONE WALL REMOVED AND REBUILT                  |
| 691.1           | LANDSCAPE BOULDER REMOVED & RESET                       |
| 692             | BALANCE STONE WALL                                      |
| 697             | SEDIMENTATION FENCE                                     |
| 697.1           | SILT SACK   |
| 697.2           | FLOATING SILT FENCE                                     |
| 698.1           | GEOTEXTILE FABRIC FOR STABILIZATION                     |
| 698.2           | GEOTEXTILE FABRIC FOR SUBSURFACE DRAINAGE               |

| Cost Account ID | Cost Account Name                               |
|-----------------|---|
| 698.3           | GEOTEXTILE FABRIC FOR SEPARATION                |
| 698.4           | GEOTEXTILE FABRIC FOR PERMANENT EROSION CONTROL |
| 701             | CEMENT CONCRETE SIDEWALK                        |
| 701.1           | CEMENT CONCRETE SIDEWALK AT DRIVEWAYS           |
| 701.2           | CEMENT CONCRETE WHEELCHAIR RAMP                 |
| 701.3           | CEMENT CONCRETE SIDEWALK AT MEDIAN              |
| 702             | HOT MIX ASPHALT WALK SURFACE                    |
| 703             | HOT MIX ASPHALT DRIVEWAY                        |
| 703.1           | CONCRETE WHEEL STOP                             |
| 704             | STONE DUST WALKS                                |
| 704.1           | STONE DUST FOR DRIVEWAYS                        |
| 705             | FLAGSTONE WALK                                  |
| 705.1           | FLAGSTONE WALK REMOVED AND RESET                |
| 706             | BRICK WALK                                      |
| 706.1           | BRICK WALK REMOVED AND RELAID                   |
| 706.12          | CONCRETE PAVERS FOR ROADWAY                     |
| 706.2           | BRICK STEPS                                     |
| 706.4           | GRANITE STEPS REMOVED AND RESET                 |
| 706.5           | FIELD STONE WALK REMOVED AND RESET              |
| 706.6           | GRANITE SLAB WALK REMOVED AND RESET             |
| 707.1           | PARK BENCH                                      |
| 707.15          | PARK BENCH REMOVED AND RESET                    |
| 707.2           | TRASH RECEPTACLE                                |
| 707.3           | TREE GRATE                                      |
| 707.5           | TREE GUARD                                      |
| 707.6           | PICNIC TABLE                                    |
| 707.8           | STEEL BOLLARD                                   |
| 707.83          | GRANITE BOLLARD REMOVED & DISCARDED             |
| 707.9           | BICYCLE RACK                                    |
| 710.1           | CONCRETE BOUND                                  |
| 710.2           | BOUND (EXCLUDING COST OF BOUND)                 |
| 710.3           | BOUND - LETTERED GRANITE                        |
| 710.4           | BOUND - PLAIN GRANITE                           |
| 710.6           | TOWN LINE BOUND                                 |
| 710.7           | TOWN LINE WITNESS BOUND                         |
| 711             | BOUND REMOVED AND RESET                         |
| 711.1           | PROPERTY BOUND REMOVED AND RESET                |
| 711.2           | TOWN LINE BOUND REMOVED AND RESET               |
| 711.3           | TOWN LINE WITNESS BOUND REMOVED AND RESET       |
| 712             | BOUND REMOVED AND STACKED                       |
| 712.1           | TOWN LINE BOUND REMOVED AND STACKED             |
| 713.2           | TOWN LINE POST REMOVED AND RESET                |
| 714             | MONUMENT REMOVED AND RESET                      |
| 714.1           | MONUMENTS REMOVED AND RESET                     |
| 714.2           | COPPER DISKS REMOVED, STOCKPILED, AND RESET     |
| 715             | RURAL MAIL BOX REMOVED AND RESET                |
| 715.1           | MAIL BOX REMOVED AND RESET                      |

| Cost Account ID | Cost Account Name                             |
|-----------------|---|
| 717             | METAL BIN-TYPE RETAINING WALL                 |
| 718             | FLAGPOLE                                      |
| 718.1           | FLAGPOLE REMOVED AND RESET                    |
| 719.91          | BRONZE PLAQUE                                 |
| 734             | SIGN REMOVED AND RESET                        |
| 734.52          | SIGN POST REMOVED AND STACKED                 |
| 734.531         | SIGN REM NON ELECTRIC TY 1                    |
| 734.532         | SIGN REM NON ELECTRIC TY 2                    |
| 734.541         | SIGN REM ELECTRIC TY 1                        |
| 734.542         | SIGN REM ELECTRIC TY 2                        |
| 734.55          | LIGHT POLE REM                                |
| 740             | ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE A) |
| 740.1           | RENOVATING ENGINEERS FIELD OFFICE             |
| 740.2           | RELOCATE ENGINEERS FIELD OFFICE AND EQUIPMENT |
| 741             | ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE B) |
| 742             | ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE C) |
| 743             | ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE D) |
| 744             | MATERIALS LABORATORY AND EQUIPMENT            |
| 745             | PEDESTRIAN BUS SHELTER                        |
| 745.1           | PEDESTRIAN BUS SHELTER REMOVED AND RESET      |
| 745.2           | PEDESTRIAN BUS SHELTER REMOVED AND STACKED    |
| 746             | TRANSPORTATION VEHICLE                        |
| 746.6           | TRANSPORTATION OFFICE VAN                     |
| 747             | EQUIPMENT FOR ENGINEERS FIELD OFFICE          |
| 748             | MOBILIZATION                                  |
| 748.1           | EMERGENCY RESPONSE                            |
| 751             | LOAM BORROW                                   |
| 751.1           | LOAM REHANDLED AND SPREAD                     |
| 751.7           | COMPOST TOPSOIL                               |
| 752             | TOPSOIL REHANDLED AND SPREAD                  |
| 753             | PEAT BORROW                                   |
| 753.1           | MODIFIED PEAT BORROW                          |
| 754             | WETLAND SOIL REHANDLED AND SPREAD             |
| 754.2           | BOX TURTLE PROTECTION PLAN                    |
| 754.24          | MUSSEL PROTECTION PLAN                        |
| 754.25          | WOOD TURTLE PROTECTION PLAN BRIDGE STRUCTURES |
| 754.26          | MUSSEL PROTECTION PLAN BRIDGE PROJECTS        |
| 754.31          | WOOD TURTLE PROTECTION PLAN PROTOCOL #2       |
| 755             | WETLAND REPLICATION AREA                      |
| 755.1           | WELAND REPLICATION AREA -1                    |
| 755.9           | PROFESSIONAL WETLAND SPECIALIST               |
| 756             | NPDES STORM WATER POLLUTION PLAN              |
| 760             | IMPERVIOUS SOIL BORROW                        |
| 765             | SEEDING                                       |

| Cost Account ID | Cost Account Name                             |
|-----------------|---|
| 765.1           | SEEDING-680                                   |
| 765.11          | TEMPORARY AND PERMANENT SEEDING               |
| 765.15          | SEEDING - STEEP SLOPE MIX                     |
| 765.2           | SEED FOR EROSION CONTROL                      |
| 765.3           | SEED FOR EROSION CONTROL-1                    |
| 765.4           | SEEDING - UPLAND                              |
| 765.46          | SEEDING RESTORATION MIX FOR COMPOST           |
| 765.462         | SEEDING - RESTORATION MIX FOR RIP RAP AREA    |
| 765.56          | Seeding - Wetland - River Bank Mix            |
| 765.57          | Seeding - Low Grass Mix                       |
| 765.7           | SEEDING WILDFLOWER                            |
| 766             | REFERTILIZATION                               |
| 766.1           | REFERTILIZATION-1                             |
| 767             | HAY MULCH                                     |
| 767.1           | HAY MULCH-1                                   |
| 767.12          | COMPOST FILTER TUBES                          |
| 767.2           | HAY MULCH-2                                   |
| 767.3           | STRAW MULCH                                   |
| 767.31          | STRAW MULCH-1                                 |
| 767.32          | STRAW MULCH-2                                 |
| 767.4           | WOOD CHIP MULCH                               |
| 767.41          | WOOD CHIP MULCH-1                             |
| 767.42          | WOOD CHIP MULCH - REMOVED AND RESPREAD        |
| 767.5           | WOOD FIBRE MULCH                              |
| 767.51          | WOOD FIBRE MULCH-1                            |
| 767.52          | WOOD FIBRE MULCH-2                            |
| 767.6           | AGED PINE BARK MULCH                          |
| 767.61          | AGED PINE BARK MULCH-1                        |
| 767.7           | COMPOST FOR EROSION CONTROL                   |
| 767.77          | COMPOSTED WOOD CHIP MULCH FOR EROSION CONTROL |
| 767.8           | BALES OF HAY FOR EROSION CONTROL              |
| 767.9           | MATTING FOR EROSION CONTROL                   |
| 768.1           | HERBICIDE APPLICATION                         |
| 768.2           | POISON IVY ERADICATION                        |
| 769             | PAVEMENT MILLING MULCH UNDER GUARD RAIL       |
| 770             | LAWN SODDING                                  |
| 772.033         | ARBORVITAE - DARK AMERICAN 2-3 FEET           |
| 772.036         | ARBORVITAE - DARK AMERICAN 5-6 FEET           |
| 772.058         | ARBORVITAE - EMERALD GREEN 5-6 FEET           |
| 772.138         | ARBORVITAE - GIANT 5-6 FEET                   |
| 772.146         | ARBORVITAE - 'HETZ WINTERGREEN' 5-6 FEET      |
| 772.158         | ARBORVITAE - PYRAMID 5-6 FEET                 |
| 772.333         | CEDAR-RED 2-3 FEET                            |
| 772.336         | CEDAR - RED 5-6 FEET                          |
| 772.337         | CEDAR - RED 7-8 FEET                          |
| 772.346         | FIR - DOUGLAS 5-6 FEET                        |
| 772.356         | FIR - FRASER 5-6 FEET                         |
| 772.376         | FIR - WHITE 5-6 FEET                          |

| Cost Account ID | Cost Account Name                         |
|-----------------|---|
| 772.433         | HEMLOCK - CANADA 2-3 FEET                 |
| 772.436         | HEMLOCK - CANADA 5-6 FEET                 |
| 772.439         | HEMLOCK - CANADA 8-10 FEET                |
| 772.535         | HEMLOCK - CAROLINA 4-5 FEET               |
| 773.036         | PINE - AUSTRIAN 5-6 FEET                  |
| 773.039         | PINE - AUSTRIAN 8-10 FEET                 |
| 773.136         | PINE - JAPANESE BLACK 5-6 FEET            |
| 773.141         | PINE - JAPANESE BLACK 8-10 FEET           |
| 773.148         | PINE - JAPANESE UMBRELLA 6-7 FEET         |
| 773.224         | PINE - PITCH 4-5 FEET                     |
| 773.236         | PINE - RED 5-6 FEET                       |
| 773.238         | PINE - RED 8-10 FEET                      |
| 773.337         | PINE - SCOTCH 5-6 FEET                    |
| 773.408         | PINE - SWISS STONE 5-6 FEET               |
| 773.436         | PINE - WHITE 5-6 FEET                     |
| 773.439         | PINE - WHITE 10-12 FEET                   |
| 774.037         | SPRUCE - COLORADO GREEN 5-6 FEET          |
| 774.041         | SPRUCE - COLORADO GREEN 8-10 FEET         |
| 774.136         | SPRUCE - NORWAY 5-6 FEET                  |
| 774.138         | SPRUCE - NORWAY 8-10 FEET                 |
| 774.235         | SPRUCE - SERBIAN 5-6 FEET                 |
| 774.238         | SPRUCE - SERBIAN 8-10 FEET                |
| 774.638         | SPRUCE - WHITE 5-6 FEET                   |
| 774.642         | SPRUCE - WHITE 7-8 FEET                   |
| 775.003         | ASH - GREEN 8-10 FEET                     |
| 775.005         | ASH - GREEN 2.5-3 INCH CALIPER            |
| 775.006         | ASH - GREEN 3-3.5 INCH CALIPER            |
| 775.007         | ASH - WHITE 8-10 FEET                     |
| 775.008         | ASH - WHITE 2-2.5 INCH CALIPER            |
| 775.011         | ASH - WHITE 3-3.5 INCH CALIPER            |
| 775.012         | BEECH - AMERICAN 2-2.5 INCH CALIPER       |
| 775.013         | BEECH - AMERICAN 3-3.5 INCH CALIPER       |
| 775.015         | BEECH - COPPER 2-2.5 INCH CALIPER         |
| 775.017         | BEECH - COPPER 3 - 3.5 INCH CALIPER       |
| 775.018         | BEECH - RIVER'S PURPLE 2-2.5 INCH CALIPER |
| 775.019         | BEECH RIVER'S PURPLE 3-3.5 INCH CALIPER   |
| 775.022         | BUTTERNUT 8-10 FEET                       |
| 775.026         | CHESTNUT - SWEETHEART 8-10 FEET           |
| 775.029         | ELM - CAMPERDOWN 3-3.5 INCH CALIPER       |
| 775.031         | HICKORY - SHAGBARK 8-10 FEET              |
| 775.034         | HOPHORNBEAM - AMERICAN 8-10 FEET          |
| 775.035         | HOPHORNBEAM - AMERICAN 2-2.5 INCH CALIPER |
| 775.038         | HORNBEAM - AMERICAN 8-10 FEET             |
| 775.043         | HORNBEAM - AMERICAN 3-3.5 INCH CALIPER    |
| 775.047         | HORNBEAM - EUROPEAN 8-10 FEET             |
| 775.049         | HORNBEAM - EUROPEAN 2-2.5 INCH CALIPER    |
| 775.055         | HORNBEAM - FASTIGIATE 2.5-3 INCH CALIPER  |
| 775.061         | PAGODA TREE 'REGENT' 2-2.5 INCH CALIPER   |
| 775.065         | PAGODA TREE 'REGENT' 3-3.5 INCH CALIPER   |

| Cost Account ID | Cost Account Name                                       |
|-----------------|---|
| 775.071         | JAPANESE SNOWBELL TREE 5-6 FEET                         |
| 775.075         | JAPANESE SNOWBELL TREE 1.5-2 INCH CALIPER               |
| 775.128         | KATSURA TREE 2-2.5 INCH CALIPER                         |
| 775.131         | KATSURA TREE 3-3.5 INCH CALIPER                         |
| 775.133         | LARCH - EUROPEAN 2-2.5 INCH CALIPER                     |
| 775.134         | LARCH - EUROPEAN 3-3.5 INCH CALIPER                     |
| 775.137         | LARCH - JAPANESE 1.5-2 INCH CALIPER                     |
| 775.139         | LARCH - JAPANESE 3-3.5 INCH CALIPER                     |
| 775.14          | LINDEN - AMERICAN 2-2.5 INCH CALIPER                    |
| 775.145         | LINDEN - AMERICAN 3-3.5 INCH CALIPER                    |
| 775.147         | LINDEN - LITTLE LEAF 2-2.5 INCH CALIPER                 |
| 775.151         | LINDEN - LITTLE LEAF 3-3.5 INCH CALIPER                 |
| 775.264         | LINDEN - SILVER 2-2.5 INCH CALIPER                      |
| 775.266         | LINDEN - SILVER 3-3.5 INCH CALIPER                      |
| 775.275         | HONEY LOCUST - 1.5-2" CAL                               |
| 775.431         | LOCUST - HONEY - 'SHADEMASTER' 2-2.5 INCH CALIPER       |
| 775.434         | LOCUST - HONEY - 'SHADEMASTER' 3-3.5 INCH CALIPER       |
| 775.437         | LOCUST - HONEY - SKYLINE' 2-2.5 INCH CALIPER            |
| 775.441         | LOCUST - HONEY - SKYLINE' 3-3.5 INCH CALIPER            |
| 776.036         | MAPLE - AMUR 5-6 FEET                                   |
| 776.039         | MAPLE - AMUR 10-12 FEET                                 |
| 776.044         | MAPLE - HEDGE 2-2.5 INCH CALIPER                        |
| 776.048         | MAPLE - HEDGE 3-3.5 INCH CALIPER                        |
| 776.354         | MAPLE - JAPANESE CUTLEAF - 'EVER RED' 3.5-4 FOOT SPREAD |
| 776.355         | MAPLE - JAPANESE - GREEN CUTLEAF 3.5-4 FOOT SPREAD      |
| 776.475         | MAPLE - PAPERBARK 2-2.5 INCH CALIPER                    |
| 776.478         | MAPLE - PAPERBARK 3-3.5 INCH CALIPER                    |
| 776.521         | RED MAPLE-1.5-2" CAL                                    |
| 776.523         | MAPLE - RED - 'ARMSTRONG' 2-2.5 INCH CALIPER            |
| 776.525         | MAPLE - RED - 'ARMSTRONG' 2.5-3 INCH CALIPER            |
| 776.527         | MAPLE - RED - 'ARMSTRONG' 3-3.5 INCH CALIPER            |
| 776.538         | MAPLE - RED - 'OCTOBER GLORY' 8-10 FEET                 |
| 776.543         | MAPLE - RED - 'OCTOBER GLORY' 2-2.5 INCH CALIPER        |
| 776.551         | MAPLE - RED - 'OCTOBER GLORY 3-3.5 INCH CALIPER         |
| 776.557         | MAPLE - RED - 'RED SUNSET' 2-2.5 INCH CALIPER           |
| 776.561         | MAPLE - RED - 'RED SUNSET' 3-3.5 INCH CALIPER           |
| 776.563         | MAPLE - RED 1 5-2 INCH CALIPER                          |
| 776.564         | MAPLE-RED-2-2.5 INCH CAL.                               |
| 776.737         | MAPLE - SILVER 2-2.5 INCHES CALIPER                     |
| 776.836         | MAPLE - SUGAR 2-2.5 INCHES CALIPER                      |
| 776.84          | MAPLE - SUGAR 3-3.5 INCHES CALIPER                      |
| 776.841         | MAPLE - SUGAR - 'GREEN MOUNTAIN' 2-2.5 INCH CALIPER     |

| Cost Account ID | Cost Account Name                                   |
|-----------------|---|
| 776.845         | MAPLE - SUGAR - 'GREEN MOUNTAIN' 3-3.5 INCH CALIPER |
| 776.851         | MAPLE SUGAR - 'LEGACY' 2-2.5 INCH CALIPER           |
| 776.855         | MAPLE SUGAR - 'LEGACY' 3-3.5 INCH CALIPER           |
| 776.873         | MAPLE - SUGAR - COLUMNAR 2-2.5 INCH CALIPER         |
| 776.875         | MAPLE - SUGAR - COLUMNAR 2.5-3 INCH CALIPER         |
| 776.935         | MAPLE - SYCAMORE 2-2.5 INCH CALIPER                 |
| 776.939         | MAPLE - SYCAMORE 3-3.5 INCH CALIPER                 |
| 777.009         | OAK - BLACK 1.5-2 INCH CALIPER                      |
| 777.011         | OAK - BLACK 2-2.5 INCH CALIPER                      |
| 777.016         | OAK - BUR 1.5-2 INCH CALIPER                        |
| 777.018         | OAK - BUR 2-2.5 INCH CALIPER                        |
| 777.023         | OAK - CHESTNUT 1.5-2 INCH CALIPER                   |
| 777.025         | OAK - CHESTNUT 2-2.5 INCH CALIPER                   |
| 777.033         | OAK - ENGLISH 2-2.5 INCH CALIPER                    |
| 777.035         | OAK - NORTHERN RED 1 5-2 INCH CALIPER               |
| 777.036         | OAK - NORTHERN RED 2-2.5 INCH CALIPER               |
| 777.042         | OAK - NORTHERN RED 2.5-3 INCH CALIPER               |
| 777.043         | OAK - NORTHERN RED 3-3.5 INCH CALIPER               |
| 777.135         | PIN OAK-1.5-2" CAL                                  |
| 777.138         | OAK - PIN 2-2.5 INCH CALIPER                        |
| 777.141         | OAK - PIN 3-3.5 INCH CALIPER                        |
| 777.161         | OAK - PYRAMIDAL ENGLISH 1.5-2 INCH CALIPER          |
| 777.165         | OAK - PYRAMIDAL ENGLISH 2.5-3 INCH CALIPER          |
| 777.239         | OAK - SCARLET 10-12 FEET                            |
| 777.241         | OAK - SCARLET 2-2.5 INCH CALIPER                    |
| 777.261         | OAK - SWAMP WHITE 1.5-2 INCH CALIPER                |
| 777.327         | OAK - WHITE 1.5-2 INCH CALIPER                      |
| 777.332         | OAK - WHITE 2.5-3 INCH CALIPER                      |
| 777.342         | OAK - WILLOW 2.5-3 INCH CALIPER                     |
| 777.438         | PLANETREE - AMERICAN 8-10 FEET                      |
| 777.442         | PLANETREE - AMERICAN 2-2.5 INCH CALIPER             |
| 777.446         | PLANETREE - AMERICAN 3-3.5 INCH CALIPER             |
| 777.538         | PLANETREE - LONDON 8-10 FEET                        |
| 777.542         | PLANETREE - LONDON 2-2.5 INCH CALIPER               |
| 777.546         | PLANETREE - LONDON 3-3.5 INCH CALIPER               |
| 777.631         | POPLAR - EASTERN 2-2.5 INCH CALIPER                 |
| 777.641         | POPLAR - BOLLEANA 2-2.5 INCH CALIPER                |
| 777.673         | SWEETGUM 2-2.5 INCH CALIPER                         |
| 777.677         | SWEETGUM 3-3.5 INCH CALIPER                         |
| 777.731         | WALNUT - EASTERN BLACK 6-8 FEET                     |
| 777.738         | WILLOW - YELLOW WEEPING 8-10 FEET                   |
| 777.741         | WILLOW - YELLOW WEEPING 2-2.5 INCH CALIPER          |
| 777.743         | WILLOW - YELLOW WEEPING 2.5-3 INCH CALIPER          |
| 777.745         | WILLOW - YELLOW WEEPING 3-3.5 INCH CALIPER          |
| 777.75          | WILLOW - BLACK LIVE CUTTING                         |
| 778.009         | ASPEN - QUAKING 8-10 FEET                           |
| 778.013         | ASPEN - QUAKING 2-2.5 INCH CALIPER                  |

| Cost Account ID | Cost Account Name                                 |
|-----------------|---|
| 778.121         | BIRCH - PAPER 1.5-2 INCH CALIPER                  |
| 778.125         | BIRCH - PAPER 2.5-3 INCH CALIPER                  |
| 778.137         | BIRCH - PAPER 6-8 FOOT CLUMP                      |
| 778.141         | BIRCH - PAPER 10-12 FOOT CLUMP                    |
| 778.16          | BIRCH - RIVER 'HERITAGE' 6-8 FOOT CLUMP           |
| 778.161         | BIRCH - RIVER 'HERITAGE' 8-10 FOOT CLUMP          |
| 778.165         | BIRCH - RIVER 'HERITAGE' 12-14 FOOT CLUMP         |
| 778.239         | BIRCH - WHITE EUROPEAN 10-12 FEET                 |
| 778.241         | BIRCH - EUROPEAN - SINGLE STEM 1.5-2 INCH CALIPER |
| 778.245         | BIRCH - EUROPEAN - SINGLE STEM 2.5-3 INCH CALIPER |
| 778.251         | BIRCH - WHITESPIRE JAPANESE 2.5-3 INCH CALIPER    |
| 778.253         | BIRCH - WHITESPIRE JAPANESE 12-14 FOOT CLUMP      |
| 778.263         | CAROLINA SILVERBELL 1.5-2 INCH CALIPER            |
| 778.267         | CAROLINA SILVERBELL 2.5-3 INCH CALIPER            |
| 778.313         | CHERRY - AUTUMN FLOWERING 1.5-2 INCH CALIPER      |
| 778.317         | CHERRY - AUTUMN FLOWERING 2.5-3 INCH CALIPER      |
| 778.321         | CHERRY - BLACK 8-10 FEET                          |
| 778.323         | CHERRY - BLACK 1.5-2 INCH CALIPER                 |
| 778.335         | CHERRY - CHOKE 'SHUBERT' 1.5-2 INCH CALIPER       |
| 778.339         | CHERRY - CHOKE 'SHUBERT' 2.5-3 INCH CALIPER       |
| 778.343         | CHERRY - HIGAN - WEEPING 1.5-2 INCH CALIPER       |
| 778.347         | CHERRY - HIGAN - WEEPING 2.5-3 INCH CALIPER       |
| 778.353         | CHERRY - KWANZAN 1.5-2 INCH CALIPER               |
| 778.357         | CHERRY - KWANZAN 2.5-3 INCH CALIPER               |
| 778.363         | CHERRY - MT. FUJI 1.5-2 INCH CALIPER              |
| 778.367         | CHERRY - MT. FUJI 2.5-3 INCH CALIPER              |
| 778.373         | CHERRY - SARGENT 1.5-2 INCH CALIPER               |
| 778.377         | CHERRY - SARGENT 2.5-3 INCH CALIPER               |
| 778.383         | CHERRY - SARGENT COLUMNAR 1.5-2 INCH CALIPER      |
| 778.387         | CHERRY - SARGENT COLUMNAR 2.5-3 INCH CALIPER      |
| 778.393         | CHERRY - YOSHINO 1.5-2 INCH CALIPER               |
| 778.397         | CHERRY - YOSHINO 2.5-3 INCH CALIPER               |
| 778.399         | CORK - AMUR 8-10 FEET                             |
| 778.401         | CORNELIANCHERRY 6-8 FEET                          |
| 778.405         | CORNELIANCHERRY 1.5-2 INCH CALIPER                |
| 778.413         | CRABAPPLE - CENTURION' 1.5-2 INCH CALIPER         |
| 778.417         | CRABAPPLE - CENTURION' 2.5-3 INCH CALIPER         |
| 778.423         | CRABAPPLE - 'DONALD WYMAN' 1.5-2 INCH CALIPER     |
| 778.427         | CRABAPPLE - 'DONALD WYMAN' 2.5-3 INCH CALIPER     |
| 778.433         | CRABAPPLE - 'PINK PERFECTION' 1.5-2 INCH CALIPER  |

| Cost Account ID | Cost Account Name                                   |
|-----------------|---|
| 778.437         | CRABAPPLE - 'PINK PERFECTION 2.5-3 INCH CALIPER     |
| 778.443         | CRABAPPLE - 'RADIANT' 1.5-2 INCH CALIPER            |
| 778.447         | CRABAPPLE - 'RADIANT' 2.5-3 INCH CALIPER            |
| 778.453         | CRABAPPLE - 'RED JADE' WEEPING 1.5-2 INCH CALIPER   |
| 778.457         | CRABAPPLE - 'RED JADE' - WEEPING 2.5-3 INCH CALIPER |
| 778.463         | CRABAPPLE - 'SNOWDRIFT' 1.5-2 INCH CALIPER          |
| 778.467         | CRABAPPLE - 'SNOWDRIFT 2.5-3 INCH CALIPER           |
| 778.473         | CRABAPPLE - 'ZUMI' 1.5-2 INCH CALIPER               |
| 778.477         | CRABAPPLE - 'ZUMI' 2.5-3 INCH CALIPER               |
| 780.137         | DOGWOOD - JAPANESE CLUMP 6-8 FEET                   |
| 780.141         | DOGWOOD - JAPANESE CLUMP 10-12 FEET                 |
| 780.142         | DOGWOOD - JAPANESE SINGLE STEM 2-2.5 INCH CALIPER   |
| 780.143         | DOGWOOD - JAPANESE SINGLE STEM 2.5-3 INCH CALIPER   |
| 780.155         | DOGWOOD - PINK 'RUBRA' 2-2.5 INCH CALIPER           |
| 780.159         | DOGWOOD - PINK 'RUBRA' 3-3.5 INCH CALIPER           |
| 780.165         | DOGWOOD - 'CHEROKEE CHIEF' 2-2.5 INCH CALIPER       |
| 780.169         | DOGWOOD - 'CHEROKEE CHIEF' 3-3.5 INCH CALIPER       |
| 780.175         | DOGWOOD - 'CHEROKEE PRINCESS' 2-2.5 INCH CALIPER    |
| 780.179         | DOGWOOD - 'CHEROKEE PRINCESS' 3-3.5 INCH CALIPER    |
| 780.237         | DOGWOOD - KOUSA 6-8 FEET                            |
| 781.023         | FRINGE TREE 6-8 FEET                                |
| 781.037         | GOLDENCHAIN - FLOWERING 6-8 FEET                    |
| 781.137         | GOLDENRAIN TREE 6-8 FEET                            |
| 781.141         | GOLDENRAIN TREE 2.5-3 INCH CALIPER                  |
| 781.171         | HACKBERRY TREE 1.5-2 INCH CALIPER                   |
| 781.173         | HACKBERRY TREE 2-2.5 INCH CALIPER                   |
| 781.253         | HAWTHORN - 'CRIMSON CLOUD' 1.5-2 INCH CALIPER       |
| 781.257         | HAWTHORN - 'CRIMSON CLOUD' 2.5-3 INCH CALIPER       |
| 781.263         | HAWTHORN - 'WINTER KING' 1.5-2 INCH CALIPER         |
| 781.265         | WINTER KING HAWTHORNE                               |
| 781.267         | HAWTHORN - 'WINTER KING' 2.5-3 INCH CALIPER         |
| 781.273         | HAWTHORN - LAVALLE 1.5-2 INCH CALIPER               |
| 781.277         | HAWTHORN - LAVALLE 2.5-3 INCH CALIPER               |
| 781.285         | HAWTHORN - WASHINGTON CLUMP 8-10 FOOT CLUMP         |
| 781.287         | HAWTHORN - WASHINGTON CLUMP 10-12 FOOT CLUMP        |
| 781.473         | HORSECHESTNUT - BAUMAN'S 2-2.5 INCH CALIPER         |
| 781.477         | HORSECHESTNUT - BAUMAN'S 3-3.5 INCH CALIPER         |
| 781.483         | HORSECHESTNUT - RED 1.5-2 INCH CALIPER              |

| Cost Account ID | Cost Account Name                                 |
|-----------------|---|
| 781.487         | HORSECHESTNUT - RED 2.5-3 INCH CALIPER            |
| 781.571         | LILAC TREE - JAPANESE CLUMP 6-8 FOOT CLUMP        |
| 781.573         | LILAC TREE - JAPANESE CLUMP 8-10 FOOT CLUMP       |
| 781.575         | LILAC TREE - JAPANESE CLUMP 10-12 FOOT CLUMP      |
| 781.579         | LILAC TREE - JAPANESE 2-2.5 INCH CALIPER          |
| 782.025         | MAGNOLIA TREE - 'MERRILL' 8-10 FEET               |
| 782.036         | MAGNOLIA TREE - SAUCER 5-6 FEET                   |
| 782.039         | MAGNOLIA TREE - SAUCER 8-10 FEET                  |
| 782.044         | MAGNOLIA TREE - STAR 6-7 FEET                     |
| 782.048         | MAGNOLIA TREE - STAR 8-10 FEET                    |
| 782.053         | MAGNOLIA TREE - SWEETBAY 5-6 FEET                 |
| 782.057         | MAGNOLIA TREE - SWEETBAY 7-8 FEET                 |
| 782.145         | MAIDENHAIR TREE 2-2.5 INCH CALIPER                |
| 782.149         | MAIDENHAIR TREE 3-3.5 INCH CALIPER                |
| 782.237         | MOUNTAIN ASH - EUROPEAN 6-8 FEET                  |
| 782.239         | MOUNTAIN ASH - EUROPEAN 2-2.5 INCH CALIPER        |
| 782.243         | MOUNTAIN ASH - EUROPEAN 3-3.5 INCH CALIPER        |
| 782.245         | MOUNTAIN ASH - KOREAN 1.5-2 INCH CALIPER          |
| 782.251         | MOUNTAIN ASH - KOREAN 2.5-3 INCH CALIPER          |
| 782.353         | OHIO BUCKEYE 2-2.5 INCH CALIPER                   |
| 782.357         | OHIO BUCKEYE 3-3.5 INCH CALIPER                   |
| 782.373         | PAGODA TREE - 'REGENT' 2-2.5 INCH CALIPER         |
| 782.377         | PAGODA TREE - 'REGENT' 3-3.5 INCH CALIPER         |
| 782.403         | PEAR - CALLERY - 'ARISTOCRAT' 2-2.5 INCH CALIPER  |
| 782.407         | PEAR - CALLERY - 'ARISTOCRAT' 3-3.5 INCH CALIPER  |
| 782.413         | PEAR - CALLERY - 'BRADFORD' 2-2.5 INCH CALIPER    |
| 782.417         | PEAR - CALLERY - 'BRADFORD' 3-3.5 INCH CALIPER    |
| 782.423         | PEAR - CALLERY - 'CHANTICLEER' 2-2.5 INCH CALIPER |
| 782.427         | PEAR - CALLERY - 'CHANTICLEER' 3-3.5 INCH CALIPER |
| 782.453         | PLUM TREE - 'NEWPORT' 1.5-2 INCH CALIPER          |
| 782.457         | PLUM TREE - 'NEWPORT' 2.5-3 INCH CALIPER          |
| 782.473         | PLUM TREE - 'THUNDRCLLOUD' 1.5-2 INCH CALIPER     |
| 782.477         | PLUM TREE - 'THUDERCLLOUD' 2.5-3 INCH CALIPER     |
| 782.536         | REDBUD - EASTERN 5-6 FEET                         |
| 782.537         | REDBUD - EASTERN 1.5-2 INCH CALIPER               |
| 782.539         | REDBUD - EASTERN 2.5-3 INCH CALIPER               |
| 782.634         | REDWOOD - DAWN 2-2.5 INCH CALIPER                 |
| 783.037         | SHAD TREE - ALLEGHENY CLUMP 4-5 FEET              |
| 783.041         | SHAD TREE - ALLEGHENY CLUMP 8-10 FEET             |
| 783.045         | SHAD TREE - DOWNY 6-8 FEET                        |
| 783.049         | SHAD TREE - DOWNY 2-2.5 INCH CALIPER              |
| 783.339         | SOURWOOD 1.5-2 INCH CALIPER                       |

| Cost Account ID | Cost Account Name                            |
|-----------------|--|
| 783.343         | SOURWOOD 2.5-3 INCH CALIPER                  |
| 783.366         | STEWARTIA 7-8 FEET                           |
| 783.442         | TULIP TREE 2.5-3 INCH CALIPER                |
| 783.443         | TULIP TREE 3-3.5 INCH CALIPER                |
| 783.465         | TUPELO 1.5-2 INCH CALIPER                    |
| 783.467         | TUPELO 2-2.5 INCH CALIPER                    |
| 783.537         | YELLOWWOOD 1.5-2 INCH CALIPER                |
| 783.539         | YELLOWWOOD 2-2.5 INCH CALIPER                |
| 783.639         | ZELKOVA - 'GREEN VASE' 2-2.5 INCH CALIPER    |
| 783.641         | ZELKOVA - 'GREEN VASE 2.5-3 INCH CALIPER     |
| 783.645         | ZELKOVA - 'VILLAGE GREEN' 2-2.5 INCH CALIPER |
| 783.647         | ZELKOVA - 'VILLAGE GREEN' 2.5-3 INCH CALIPER |
| 785.013         | ABELIA SHRUB - GLOSSY 15-18 INCH             |
| 785.023         | ABELIA SHRUB - GLOSSY 2-3 FEET               |
| 785.175         | ANDROMEDA - MOUNTAIN 24-36 INCH              |
| 785.179         | BOG ROSEMARY 1 GALLON                        |
| 785.181         | BOXWOOD - COMMON 18-24 INCH                  |
| 785.183         | BOXWOOD - COMMON 3-4 FEET                    |
| 785.189         | BOXWOOD - 'GREEN MOUNTAIN' 18-24 INCH        |
| 785.193         | EUONYMOUS - 'EMERALD GAIETY' 1 GALLON        |
| 785.201         | EUONYMOUS - 'KEWENSIS' 1 GALLON              |
| 785.205         | EUONYMOUS - UPRIGHT WINTERCREEPER 2-3 FEET   |
| 785.213         | HEATHER - COMMON 2 GALLON                    |
| 785.217         | HEATHER - 'MAIRES' 2 GALLON                  |
| 785.223         | HEATHER - 'SPRING CREAM' 2 GALLON            |
| 785.525         | HEMLOCK - WEEPING 2-3 FOOT SPREAD            |
| 785.533         | HOLLY - AMERICAN MALE 6-7 FEET               |
| 785.537         | HOLLY - AMERICAN FEMALE 6-7 FEET             |
| 785.541         | HOLLY - 'BLUE PRINCE' 18-24 INCH             |
| 785.543         | HOLLY - 'BLUE PRINCE' 2-3 FEET               |
| 785.545         | HOLLY - 'BLUE PRINCESS' 18-24 INCH           |
| 785.547         | HOLLY - 'BLUE PRINCESS' 2-3 FEET             |
| 785.551         | HOLLY - 'CHINA BOY' 18-24 INCH               |
| 785.553         | HOLLY - 'CHINA BOY' 2-3 FEET                 |
| 785.555         | HOLLY - 'CHINA GIRL' 18-24 INCH              |
| 785.557         | HOLLY - 'CHINA GIRL' 2-3 FEET                |
| 785.571         | HOLLY - JAPANESE COMPACT 18-24 INCH          |
| 785.573         | HOLLY - JAPANESE COMPACT 24-30 INCH          |
| 785.577         | HOLLY - JAPANESE CONVEXA 18-24 INCH          |
| 785.579         | HOLLY - JAPANESE CONVEXA 24-30 INCH          |
| 785.581         | HOLLY - 'JAPANESE - 'HELLER' 18-24 INCH      |
| 785.583         | HOLLY - JAPANESE - 'HELLER' 24-30 INCH       |
| 785.585         | HOLLY - JAPANESE - 'HETZ' 18-24 INCH         |
| 785.587         | HOLLY - JAPANESE - 'HETZ' 24-30 INCH         |
| 785.593         | HOLLY - LONGSTALK MALE 2-3 FEET              |
| 785.597         | HOLLY - LONGSTALK FEMALE 2-3 FEET            |
| 785.609         | HOLLY - OREGON GRAPE COMPACT 15-18 INCH      |
| 785.611         | HOLLY - OREGON GRAPE COMPACT 18-24 INCH      |

| Cost Account ID | Cost Account Name                       |
|-----------------|---|
| 785.631         | INKBERRY 18-24 INCH                     |
| 785.633         | INKBERRY 2-3 FEET                       |
| 785.731         | INKBERRY - COMPACT 18-24 INCH           |
| 785.733         | INKBERRY - COMPACT 24-30 INCH           |
| 786.011         | JUNIPER - ANDORRA 12-15 INCH            |
| 786.031         | JUNIPER - ANDORRA 18-24 INCH            |
| 786.079         | JUNIPER - BAR HARBOR 12-15 INCH         |
| 786.081         | JUNIPER - BAR HARBOR 15-18 INCH         |
| 786.099         | JUNIPER - BAR HARBOR 2 GALLONS          |
| 786.101         | JUNIPER - 'BLUE HAVEN' 18-24 INCH       |
| 786.105         | JUNIPER - 'BLUE HAVEN' 2.5-3 FEET       |
| 786.109         | JUNIPER - BLUE RUG' 12-15 INCH          |
| 786.111         | JUNIPER - 'GREY OWL' 2 GALLON           |
| 786.113         | JUNIPER - 'GREY OWL' 3 GALLON           |
| 786.115         | JUNIPER - 'SEA GREEN' 2 GALLONS         |
| 786.321         | JUNIPER - HETZ 15-18 INCH               |
| 786.331         | JUNIPER - HETZ 18-24 INCH               |
| 786.371         | JUNIPER 'MINT JULEP' 15-18 INCH         |
| 786.375         | JUNIPER 'MINT JULEP' 24-30 INCH         |
| 786.421         | JUNIPER - PFITZER 15-18 INCH            |
| 786.431         | JUNIPER - PFITZER 24-30 INCH            |
| 786.433         | JUNIPER - PFITZER COMPACT 15-18 INCH    |
| 786.437         | JUNIPER - PFITZER COMPACT 24-30 INCH    |
| 786.461         | JUNIPER SARGENT'S GREEN 15-18 INCH      |
| 786.467         | JUNIPER SARGENT'S GREEN 24-30 INCH      |
| 786.471         | JUNIPER 'SEA GREEN' 18-24 INCH          |
| 786.475         | JUNIPER 'SEA GREEN' 2.5-3 FEET          |
| 786.633         | LEUCOTHOE - COAST 18-24 INCH            |
| 786.637         | LEUCOTHOE - COMPACT DROOPING 18-24 INCH |
| 786.671         | MOUNTAIN LAUREL 24-30 INCH              |
| 786.673         | MOUNTAIN LAUREL 3-4 FEET                |
| 787.031         | PINE SHRUB - MUGO 18-24 INCH            |
| 787.037         | PINE - MUGO DWARF 12-15 INCHES          |
| 787.043         | RHODO - 'BOULE DE NEIGE' 18-24 INCH     |
| 787.045         | RHODO - 'BOULE DE NEIGE' 24-30 INCH     |
| 787.047         | RHODO - CAROLINA 18-24 INCH             |
| 787.049         | RHODO - CAROLINA 24-30 INCH             |
| 787.051         | RHODO - 'CHIONOIDES' 18-24 INCH         |
| 787.053         | RHODO - 'CHIONOIDES' 24-30 INCH         |
| 787.055         | RHODO - CUNNINGHAM WHITE 18-24 INCH     |
| 787.057         | RHODO - CUNNINGHAM WHITE 24-30 INCH     |
| 787.059         | RHODO - ENGLISH ROSEUM 18-24 INCH       |
| 787.061         | RHODO - ENGLISH ROSEUM 24-30 INCH       |
| 787.063         | RHODO - NOVA ZEMBLA 18-24 INCH          |
| 787.065         | RHODO - NOVA ZEMBLA 24-30 INCH          |
| 787.067         | RHODO - PJM 18-24 INCH                  |
| 787.069         | RHODO - PJM 24-30 INCH                  |
| 787.071         | RHODO - PJM AGLO' 18-24 INCH            |
| 787.073         | RHODO - PJM AGLO' 24-30 INCH            |

| Cost Account ID | Cost Account Name                                |
|-----------------|--|
| 787.075         | RHODO - 'PJM OLGA' 18-24 INCH                    |
| 787.077         | RHODO - 'PJM OLGA' 24-30 INCH                    |
| 787.079         | RHODO - ROSEBAY 18-24 INCH                       |
| 787.081         | RHODO - ROSEBAY 24-30 INCH                       |
| 787.083         | RHODO - 'ROSEUM ELEGAN'S' 18-24 INCH             |
| 787.085         | RHODO - 'ROSEUM ELEGAN'S' 24-30 INCH             |
| 787.087         | RHODO - WILSON 15-18 INCH                        |
| 787.089         | RHODO - WILSON 18-21 INCH                        |
| 787.091         | RHODO - YAKU 'PRINCE' 12-15 INCHES               |
| 787.093         | RHODO - YAKU 'PRINCESS' 12-15 INCHES             |
| 787.097         | SPRUCE - BIRD'S NEST 18-24 INCH SPREAD           |
| 787.183         | YEW - COLUMNAR ENGLISH 3-4 FEET                  |
| 787.231         | YEW - HATFIELD 18-24 INCH                        |
| 787.233         | YEW - HATFIELD 2-3 FEET                          |
| 787.241         | YEW - HICK'S 18-24 INCH HEAVY                    |
| 787.245         | YEW - HICK'S 30-36 INCH                          |
| 787.253         | YEW - SPREADING DENSE 18-24 INCH HEAVY           |
| 787.255         | YEW - SPREADING DENSE 24-30 INCH                 |
| 787.263         | YEW - SPREADING ENGLISH 24-30 INCH SPREAD        |
| 787.321         | YEW - SPREADING JAPANESE 15-18 INCH              |
| 787.331         | YEW - SPREADING JAPANESE 18-24 INCH              |
| 787.421         | YEW - UPRIGHT JAPANESE 15-18 INCH                |
| 787.431         | YEW - UPRIGHT JAPANESE 18-24 INCH                |
| 787.441         | YEW - UPRIGHT JAPANESE 5-6 FEET                  |
| 788.013         | ALDER SHRUB - SPECKLED 2 GALLON                  |
| 788.131         | ARALIA - FIVELEAF 18-24 INCH                     |
| 788.133         | ARALIA - FIVELEAF 2-3 FEET                       |
| 788.205         | AZALEA - 'BLAAUW'S PINK' 18-24 INCHES            |
| 788.209         | AZALEA - 'CORAL BELLS' 18-24 INCHES              |
| 788.213         | AZALEA - CORNELL PINK 18-24 INCH                 |
| 788.217         | AZALEA - 'DEL VALLEY WHITE' 18-24 INCH           |
| 788.219         | AZALEA 7 GALLON                                  |
| 788.221         | AZALEA - 'ELIZABETH GABLE' 18-24 INCH            |
| 788.225         | AZALEA - 'GIRARD'S ROSE' 18-24 INCH              |
| 788.229         | AZALEA - 'HINO CRIMSON' 18-24 INCH               |
| 788.233         | AZALEA - KOREAN COMPACT 18-24 INCH               |
| 788.237         | AZALEA - 'MOTHER'S DAY' 18-24 INCH               |
| 788.239         | AZALEA - PINKSHELL 18-24 INCH                    |
| 788.245         | AZALEA - 'ROEHR'S TRADITION' 18-24 INCH          |
| 788.249         | AZALEA - 'ROSEBUD' 18-24 INCH                    |
| 788.253         | AZALEA - ROYAL 18-24 INCH                        |
| 788.257         | AZALEA - 'SALMON SPRAY' 18-24 INCH               |
| 788.261         | ALAEA - 'STEWARTSONIAN' 18-24 INCH               |
| 788.263         | AZALEA - SWAMP 18-24 INCH                        |
| 788.265         | AZALEA - SWAMP 2-3 FEET                          |
| 788.29          | CHERRY-SARGENT COLUMNARY CHERRY -2-2.5 INCH CAL. |
| 789.321         | BAYBERRY SHRUB - NORTHERN 15-18 INCH             |
| 789.331         | BAYBERRY SHRUB - NORTHERN 18-24 INCH             |

| Cost Account ID | Cost Account Name                     |
|-----------------|---------------------------------------|
| 789.333         | BAYBERRY SHRUB - NORTHERN 2-3 FEET    |
| 789.431         | BEACH PLUM SHRUB 18-24 INCH           |
| 789.433         | BEACH PLUM SHRUB 2-3 FEET             |
| 789.631         | BLUEBERRY - HIGHBUSH 18-24 INCH       |
| 789.633         | BLUEBERRY - HIGHBUSH 2-3 FEET         |
| 789.669         | BLUEBERRY - LOWBUSH 6-9 INCH HEIGHT   |
| 789.713         | BUCKEYE - BOTTLEBRUSH 2-3 FEET        |
| 789.725         | BUTTERFLY BUSH 24-36 INCHES           |
| 789.728         | RED - CHOKEBERRY 2-2 5 FEET           |
| 789.74          | BUTTONBUSH 18-24 INCH                 |
| 789.817         | CINQUEFOIL - ABBOTSWOOD 2-3 FEET      |
| 789.823         | CINQUEFOIL - JACKMAN'S 12-15 INCHES   |
| 789.827         | CINQUEFOIL - JACKMAN'S 2-3 FEET       |
| 789.835         | CINQUEFOIL - KATHERINE DYKES 2-3 FEET |
| 790.033         | CORALBERRY SHRUB 2-3 FEET             |
| 790.133         | CORALBERRY SHRUB-CHENAULT 2-3 FEET    |
| 790.261         | CORNELIANCHERRY 18-24 INCH            |
| 790.263         | CORNELIANCHERRY 2-3 FEET              |
| 790.327         | COTONEASTER - CRANBERRY 18-24 INCH    |
| 790.329         | COTONEASTER - ROCKSPRAY 18-24 INCH    |
| 790.331         | COTONEASTER - SPREADING 18-24 INCH    |
| 790.433         | CRANBERRY BUSH - AMERICAN 2-3 FEET    |
| 790.438         | CRANBERRY - DWARF 12-15 INCH SPREAD   |
| 790.531         | DOGWOOD - GRAY TWIG 18-24 INCH        |
| 790.533         | DOGWOOD - GRAY TWIG 2-3 FEET          |
| 790.63          | DOGWOOD - RED OSIER LIVE CUTTING      |
| 790.631         | DOGWOOD - REDOSIER 18-24 INCH         |
| 790.633         | DOGWOOD - REDOSIER 2-3 FEET           |
| 790.643         | DOGWOOD - SIBERIAN 2-3 FEET           |
| 790.719         | DOGWOOD - SILKY 2-3 FEET              |
| 790.72          | DOGWOOD - SILKY                       |
| 790.733         | DOGWOOD - YELLOW TWIG 2-3 FEET        |
| 791.033         | ELDERBERRY 2-3 FEET                   |
| 791.243         | FIRETHORN - LALAND 2-3 FEET           |
| 791.251         | FORSYTHIA - 'ARNOLD DWARF' 15-24 INCH |
| 791.255         | FORSYTHIA - 'LYNWOOD GOLD' 3-4 FEET   |
| 791.259         | FORSYTHIA - 'SPECTABILIS' 3-4 FEET    |
| 791.263         | FORSYTHIA - WEEPING 18-24 INCHES      |
| 791.313         | FOTHERGILLA - DWARF 18-24 INCH SPREAD |
| 792.009         | HYDRANGEA - ANNABELLE 18-24 INCHES    |
| 792.013         | HYDRANGEA - BIGLEAF 18-24 INCHES      |
| 792.017         | HYDRANGEA - OAKLEAF 18-24 INCHES      |
| 792.021         | HYDRANGEA - PEEGEE 24-36 INCHES       |
| 792.433         | LILAC - COMMON PURPLE 3-4 FEET        |
| 792.435         | LILAC - COMMON PURPLE 4-5 FEET        |
| 792.443         | LILAC - BELLE DE NANCY 3-4 FEET       |
| 792.449         | LILAC - ELLEN WILLMONT 3-4 FEET       |
| 792.621         | LOCUST - BRISTLY 15-18 INCH           |
| 792.735         | MOCK ORANGE 'SNOWFLAKE' 2-3 FEET      |

| Cost Account ID | Cost Account Name                           |
|-----------------|---|
| 793.033         | NINEBARK SHRUB - COMMON 2-3 FEET            |
| 793.053         | NINEBARK SHRUB - GOLDEN 2-3 FEET            |
| 793.317         | PRIVET - AMUR 24-30 INCH                    |
| 793.331         | PRIVET - REGAL 18-24 INCH                   |
| 793.343         | QUINCE - CAMEO FLOWERING 18-24 INCH SPREAD  |
| 793.353         | QUINCE - TEXAS SCARLET 2-3 FEET             |
| 793.505         | ROSE OF SHARON 'DIANA' 3-4 FEET             |
| 793.509         | ROSE OF SHARON 'LUCY' 3-4 FEET              |
| 793.513         | ROSE OF SHARON 'WOODBRIDGE' 3-4 FEET        |
| 793.527         | SANDCHERRY - PURPLE LEAF 2-3 FEET           |
| 793.529         | SANDCHERRY - PURPLE LEAF 3-4 FEET           |
| 793.712         | SPICEBUSH 15-18 INCH                        |
| 793.715         | SPICEBUSH 5 GALLON                          |
| 793.731         | SPIREA - 'ANTHONY WATERER' 2-3 FEET         |
| 794.133         | SPIREA - BRIDAL WREATH 2-3 FEET             |
| 794.143         | SPIREA - LITTLE PRINCESS' 15-18 INCH SPREAD |
| 794.153         | SPREA - 'SNOWMOUND' 2-3 FEET                |
| 794.233         | SPIREA - VANHOUTTE 2-3 FEET                 |
| 794.321         | SUMAC SHRUB - FRAGRANT 15-18 INCH           |
| 794.333         | SUMAC SHRUB - FRAGRANT 2-3 FEET             |
| 794.336         | SUMAC SHRUB - FRAGRANT 'GRO-LOW' 3 GALLONS  |
| 794.431         | SUMAC SHRUB - SHINING 18-24 INCH            |
| 794.433         | SUMAC SHRUB - SHINING 2-3 FEET              |
| 794.531         | SUMAC SHRUB - SMOOTH 18-24 INCH             |
| 794.533         | SUMAC SHRUB - SMOOTH 2-3 FEET               |
| 794.621         | SUMAC SHRUB - STAGHORN 15-18 INCH           |
| 794.633         | SUMAC SHRUB - STAGHORN 2-3 FEET             |
| 794.731         | SUMMERSWEET SHRUB 18-24 INCH                |
| 794.737         | SUMMERSWEET SHRUB 3-4 FEET                  |
| 794.743         | SUMMERSWEET SHRUB 2-3 FEET                  |
| 794.803         | SWEETFERN 1 GALLON                          |
| 794.805         | SWEETFERN 2 GALLON                          |
| 795             | ARROWWOOD-2-3 FEET                          |
| 795.009         | VIBURNUM - ARROWWOOD 18-24 INCHES           |
| 795.013         | VIBURNUM - ARROWWOOD 3-4 FEET               |
| 795.017         | VIBURNUM - BLACKHAW 24-36 INCHES            |
| 795.023         | VIBURNUM - BURKWOOD 24-36 INCHES            |
| 795.031         | VIBURNUM - CRANBERRY BUSH 3-4 FEET          |
| 795.035         | VIBURNUM - DOUBLEFILE 'MARIE'S' 24-30 INCH  |
| 795.037         | VIBURNUM - DOUBLEFILE 'MARIES' 3-4 FEET     |
| 795.041         | VIBURNUM - DOUBLEFILE 'SHASTA' 24-30 INCH   |
| 795.043         | VIBURNUM - DOUBLEFILE 'SHASTA' 3-4 FEET     |
| 795.047         | VIBURNUM - FRAGANT SNOWBALL 24-30 INCH      |
| 795.051         | VIBURNUM - HIGHBUSH CRANBERRY 24-30 INCHES  |
| 795.053         | VIBURNUM - HIGHBUSH CRANBERRY 3-4 FEET      |
| 795.057         | VIBURNUM - LEATHERLEAF 24-30 INCH           |
| 795.061         | VIBURNUM - LINDEN 2-3 FEET                  |

| Cost Account ID | Cost Account Name                         |
|-----------------|---|
| 795.065         | VIBURNUM - MAYFLOWER 24-30 INCH           |
| 795.069         | VIBURNUM - NANNYBERRY 24-30 INCH          |
| 795.073         | VIBURNUM - ORIENTAL 2-3 FEET              |
| 795.077         | VIBURNUM - SNOWBALL 24-30 INCH            |
| 795.079         | VIBURNUM - WITHEROD 18-24 INCH            |
| 795.081         | VIBURNUM - WITHEROD 24-30 INCH            |
| 795.113         | WEIGELA - PINK PRINCESS 24-30 INCH        |
| 795.117         | WEIGELA - RED PRINCE 24-30 INCH           |
| 795.151         | WINTERBERRY - MALE 18-24 INCH             |
| 795.153         | WINTERBERRY - MALE 24-30 INCH             |
| 795.155         | WINTERBERRY - FEMALE 18-24 INCH           |
| 795.157         | WINTERBERRY - FEMALE 24-30 INCH           |
| 795.181         | WITCH HAZEL 'ARNOLD PROMISE' 2-3 FEET     |
| 795.182         | WITCH HAZEL 2-3 FEET                      |
| 795.183         | WITCH HAZEL 'ARNOLD PROMISE' 3-4 FEET     |
| 795.185         | WITCH HAZEL - AUTUMN BLOOMING 2-3 FEET    |
| 795.187         | WITCH HAZEL - AUTUMN BLOOMING 3-4 FEET    |
| 795.189         | WITCH HAZEL - SPRING BLOOMING 2-3 FEET    |
| 795.191         | WITCH HAZEL - SPRING BLOOMING 3-4 FEET    |
| 795.431         | WILLOW - PUSSY 18-24 INCH                 |
| 795.433         | WILLOW - PUSSY 2-3 FEET                   |
| 795.44          | WILLOW-PUSSY LIVE CUTTING                 |
| 796.009         | BEARBERRY 1 GALLON                        |
| 796.011         | BEARBERRY 2 GALLON                        |
| 796.015         | DEAD NETTLE 2 QUART                       |
| 796.027         | HONEYSUCKLE VINE 'GOLDFLAME' 2 GALLON     |
| 796.029         | HONEYSUCKLE VINE 'HALL'S' 2 GALLON        |
| 796.033         | IVY VINE - BALTIC PER FLAT                |
| 796.035         | IVY VINE - BALTIC 1 GALLON                |
| 796.037         | IVY VINE - BOSTON PER FLAT                |
| 796.039         | IVY VINE - BOSTON 1 GALLON                |
| 796.043         | MYRTLE VINE PER FLAT                      |
| 796.045         | MYRTLE VINE 1 GALLON                      |
| 796.049         | PACHYSANDRA PER FLAT                      |
| 796.053         | SILVER FLEECE VINE 1 GALLON               |
| 796.061         | TRUMPET CREEPER 1 GALLON                  |
| 796.063         | TRUMPET CREEPER - 'FLAVA' 2 GALLON        |
| 796.065         | TRUMPET CREEPER - 'MADAME GALEN' 5 GALLON |
| 796.071         | VIRGINIA CREEPER 1 GALLON                 |
| 796.073         | VIRGINIA CREEPER 2 GALLON                 |
| 796.079         | WINTERCREEPER - PURPLELEAF PER FLAT       |
| 796.081         | WINTERCREEPER - PURPLELEAF 1 GALLON       |
| 796.211         | ROSE - BONICA 2 GALLON                    |
| 796.217         | ROSE - FLOWER CARPET 1 GALLON             |
| 796.219         | ROSE - FLOWER CARPET 2 GALLON             |
| 796.225         | ROSE - PINK MEIDILAND 2 GALLON            |
| 796.235         | ROSE - RUGOSA PINK 2 GALLON               |
| 796.237         | ROSE - RUGOSA PINK 3 GALLON               |

| Cost Account ID | Cost Account Name                            |
|-----------------|--|
| 796.241         | ROSE - RUGOSA RED 2 GALLON                   |
| 796.243         | ROSE - RUGOSA RED 3 GALLON                   |
| 796.247         | ROSE - RUGOSA WHITE 2 GALLON                 |
| 796.249         | ROSE - RUGOSA WHITE 3 GALLON                 |
| 796.255         | ROSE - SEA FOAM 2 GALLON                     |
| 796.265         | ROSE - SEVILLANA 2 GALLON                    |
| 796.275         | ROSE - SIMPLICITY 2 GALLON                   |
| 796.285         | ROSE - THE FAIRY 2 GALLON                    |
| 796.295         | ROSE - WHITE MEIDILAND 2 GALLON              |
| 796.403         | BLUE FESCUE 1 GALLON                         |
| 796.409         | BLUE OAT GRASS 1 GALLON                      |
| 796.415         | BLUE LYME GRASS 1 GALLON                     |
| 796.419         | COMMON RUSH 1 GALLON                         |
| 796.423         | DWARF FOUNTAIN GRASS - 'HAMELN' 1 GALLON     |
| 796.425         | DWARF FOUNTAIN GRASS - LITTLE BUNNY 1 GALLON |
| 796.427         | FEATHER REED GRASS 2 GALLON                  |
| 796.431         | FOUNTAIN GRASS 1 GALLON                      |
| 796.435         | JAPANESE BLOOD GRASS 1 GALLON                |
| 796.441         | JAPANESE SEDGE GRASS 2 QUART                 |
| 796.445         | LILYTURF 2 QUART                             |
| 796.449         | MAIDEN GRASS 'MORNING LIGHT' 2 GALLON        |
| 796.451         | MAIDEN GRASS - DWARF 1 GALLON                |
| 796.454         | SWITCHGRASS 1 GALLON                         |
| 796.455         | SWITCH GRASS 2 GALLON                        |
| 796.461         | TUFTED HAIR GRASS 'GOLD VEIL' 2 GALLON       |
| 796.467         | ZEBRA GRASS 2 GALLON                         |
| 796.705         | ALPINE ASTER 2 QUART                         |
| 796.713         | BEE BALM 2 QUART                             |
| 796.715         | BLACK EYED SUSAN 2 QUART                     |
| 796.717         | BLACK EYED SUSAN 2 GALLON                    |
| 796.719         | BLANKET FLOWER 1 GALLON                      |
| 796.721         | BUTTERFLY WEED 2 QUART                       |
| 796.725         | CARDINAL FLOWER 2 QUART                      |
| 796.727         | CHRISTMAS FERN 1 GALLON                      |
| 796.729         | CINNAMON FERN 1 GALLON                       |
| 796.733         | COREOPSIS LANCELEAF 1 GALLON                 |
| 796.735         | PLANTAINLILY BLUE CADET 2 GALLON             |
| 796.737         | PLANTAINLILY BLUE MOUSE EARS 2 GALLON        |
| 796.739         | IRIS-DWARF CRESTED 1 GALLON                  |
| 796.741         | COREOPSIS THREAD - 'MOONBEAM' 2 GALLON       |
| 796.747         | DAYLILY - 'FLAVA' 1 GALLON                   |
| 796.751         | DAYLILY - 'FULVA' 1 GALLON                   |
| 796.755         | DAYLILY - PEACH FAIRY' 1 GALLON              |
| 796.759         | DAYLILY - 'PRIMA DONNA' 1 GALLON             |
| 796.763         | DAYLILY - 'STELLA D'ORO' 1 GALLON            |
| 796.767         | DAYLILY - 'TICK TOCK' 1 GALLON               |
| 796.775         | ENGLISH LAVENDER 1 GALLON                    |
| 796.777         | EVENING PRIMROSE 2 QUART                     |

| Cost Account ID | Cost Account Name                                   |
|-----------------|---|
| 796.779         | GAYFEATHER - 'KOBALD' 2 QUART                       |
| 796.783         | GLOBE THISTLE 2 QUART                               |
| 796.787         | LAMB'S EAR - 'SILVER CARPET' 2 QUART                |
| 796.789         | LAVENDAR COTTON 2 QUART                             |
| 796.791         | LUPINE 2 QUART                                      |
| 796.797         | MEADOW SAGE 1 GALLON                                |
| 796.803         | NEW ENGLAND ASTER 1 GALLON                          |
| 796.813         | POPPY-ICELAND 2 QUART                               |
| 796.815         | POPPY - ORIENTAL 2 QUART                            |
| 796.817         | PURPLE CONEFLOWER 2 QUART                           |
| 796.823         | ROSE MALLOW 2 GALLON                                |
| 796.827         | ROYAL FERN 1 GALLON                                 |
| 796.833         | RUSSIAN SAGE 1 GALLON                               |
| 796.837         | SEA LAVENDAR 1 GALLON                               |
| 796.841         | SEDUM 'AUTUMN JOY' 2 QUART                          |
| 796.845         | SHASTA DAISY - 'ALASKA' 2 QUART                     |
| 796.847         | SILVER MOUND 1 GALLON                               |
| 796.853         | VERONICA 'SUNNY BORDER BLUE' 2 QUART                |
| 796.859         | YARROW - 'APPLE BLOSSOM' 2 GALLON                   |
| 796.863         | YARROW - 'MOONSHINE' 2 GALLON                       |
| 796.867         | YARROW - 'PAPRIKA' 2 GALLON                         |
| 800.1           | ELECTRICAL CONDUIT REMOVED AND RESET                |
| 800.2           | 2 INCH ELECTRICAL CONDUIT - BLACK STEEL             |
| 800.3           | 3 INCH ELECTRICAL CONDUIT - BLACK STEEL             |
| 800.91          | TMEPORARY SUPPORT FOR TELEPHONE CONDUITS            |
| 801.22          | 2 INCH ELECTRICAL CONDUIT - TYPE NM (DOUBLE)        |
| 801.23          | RESIDENTIAL UTILITY SERVICES                        |
| 801.24          | 2 INCH ELECTRICAL CONDUIT - TYPE NM (4 BANK)        |
| 801.26          | 2 INCH ELECTRICAL CONDUIT - TYPE NM (6 BANK)        |
| 801.32          | 3 INCH ELECTRICAL CONDUIT - TYPE NM (DOUBLE)        |
| 801.34          | 3 INCH ELECTRICAL CONDUIT - TYPE NM (4 BANK)        |
| 801.36          | 3 INCH ELECTRICAL CONDUIT - TYPE NM (6 BANK)        |
| 801.42          | 4 INCH ELECTRICAL CONDUIT - TYPE NM (DOUBLE)        |
| 801.44          | 4 INCH ELECTRICAL CONDUIT - TYPE NM (4 BANK)        |
| 801.46          | 4 INCH ELECTRICAL CONDUIT - TYPE NM (6 BANK)        |
| 801.62          | 6 INCH ELECTRICAL CONDUIT - TYPE NM (DOUBLE)        |
| 801.64          | 6 INCH ELECTRICAL CONDUIT - TYPE NM (4 BANK)        |
| 801.66          | 6 INCH ELECTRICAL CONDUIT - TYPE NM (6 BANK)        |
| 804             | ELECTRICAL DUCTBANK                                 |
| 804.05          | 1/2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL) |
| 804.075         | 3/4 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL) |
| 804.1           | 1 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)   |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 804.15          | 1-1/2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)        |
| 804.2           | 2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL)             |
| 804.3           | 3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)            |
| 804.4           | 4 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)            |
| 804.6           | 6 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)            |
| 806.05          | 1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL       |
| 806.075         | 3/4 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL       |
| 806.1           | 1 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL         |
| 806.15          | 1-1/2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL     |
| 806.2           | 2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL         |
| 806.3           | 3 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL         |
| 806.4           | 4 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL         |
| 806.6           | 6 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL         |
| 808.2           | 2 INCH ELECTRICAL CONDUIT TY RM - STEEL - (PLASTIC COATED)   |
| 808.3           | 3 INCH ELECTRICAL CONDUIT TY RM - STEEL - (PLASTIC COATED)   |
| 808.4           | 4 INCH ELECTRICAL CONDUIT TY RM - STEEL - (PLASTIC COATED)   |
| 808.6           | 6 INCH ELECTRICAL CONDUIT TY RM - STEEL - (PLASTIC COATED)   |
| 809.05          | 1/2 INCH ELECTRICAL CONDUIT - FLEXIBLE METALLIC              |
| 809.075         | 3/4 INCH ELECTRICAL CONDUIT - FLEXIBLE METALLIC              |
| 809.1           | 1 INCH ELECTRICAL CONDUIT - FLEXIBLE METALLIC                |
| 809.15          | 1-1/2 INCH ELECTRICAL CONDUIT - FLEXIBLE METALLIC            |
| 809.2           | 2 INCH ELECTRICAL CONDUIT - FLEXIBLE METALLIC                |
| 809.3           | 3 INCH ELECTRICAL CONDUIT - FLEXIBLE METALLIC                |
| 809.4           | 4 INCH ELECTRICAL CONDUIT - FLEXIBLE METALLIC                |
| 809.905         | 1/2 INCH ELECTRIC CONDUIT FLEXIBLE METALLIC - LIQUID TIGHT   |
| 809.907         | 3/4 INCH ELECTRIC CONDUIT FLEXIBLE METALLIC - LIQUID TIGHT   |
| 809.91          | 1 INCH ELECTRIC CONDUIT FLEXIBLE METALLIC - LIQUID TIGHT     |
| 809.915         | 1-1/2 INCH ELECTRIC CONDUIT FLEXIBLE METALLIC - LIQUID TIGHT |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 809.92          | 2 INCH ELECTRIC CONDUIT FLEXIBLE METALLIC - LIQUID TIGHT |
| 809.93          | 3 INCH ELECTRIC CONDUIT FLEXIBLE METALLIC - LIQUID TIGHT |
| 809.94          | 4 INCH ELECTRIC CONDUIT FLEXIBLE METALLIC - LIQUID TIGHT |
| 810             | CONDUIT ENCASED IN CONCRETE - SD 4.041                   |
| 810.91          | MAINTENANCE OF TRAFFIC CONTROL SIGNAL SYSTEMS            |
| 811.1           | ELECTRIC MANHOLE - SD2.010                               |
| 811.11          | ELECTRIC MANHOLE - SD2.011                               |
| 811.12          | ELECTRIC MANHOLE - SD2.012                               |
| 811.13          | ELECTRIC MANHOLE - SD2.013                               |
| 811.14          | ELECTRIC MANHOLE - SD2.014                               |
| 811.2           | ELECTRIC HANDHOLE - SD2.020                              |
| 811.21          | ELECTRIC HANDHOLE - SD2.021                              |
| 811.22          | ELECTRIC HANDHOLE - SD2.022                              |
| 811.23          | ELECTRIC HANDHOLE - SD2.023                              |
| 811.24          | ELECTRIC HANDHOLE - SD2.024                              |
| 811.25          | ELECTRIC HANDHOLE - TYPE A                               |
| 811.26          | ELECTRIC HANDHOLE - TYPE B                               |
| 811.27          | ELECTRIC HANDHOLE - (MUNICIPAL STANDARD)                 |
| 811.3           | PULL BOX 8 X 23 INCHES - SD2.030                         |
| 811.31          | PULL BOX 12 X 12 INCHES - SD2.031                        |
| 811.35          | PULL BOX ADJUSTED  |
| 811.36          | ELECTRIC MANHOLE ADJUSTED                                |
| 811.37          | ELECTRIC HANDHOLE ADJUSTED                               |
| 811.38          | ELECTRIC HANDHOLE REMOVED AND RESET                      |
| 811.39          | ELECTRIC HANDHOLE REMOVED AND STACKED                    |
| 811.4           | JUNCTION BOX 6 X 6 X 4 INCHES                            |
| 811.41          | JUNCTION BOX 8 X 6 X 4 INCHES                            |
| 811.42          | JUNCTION BOX 8 X 6 X 6 INCHES                            |
| 811.5           | JUNCTION BOX 10 X 6 X 4 INCHES                           |
| 811.6           | JUNCTION BOX 12 X 8 X 6 INCHES                           |
| 811.61          | JUNCTION BOX 12 X 12 X 6 INCHES                          |
| 811.62          | JUNCTION BOX 12 X 12 X 8 INCHES                          |
| 811.63          | JUNCTION BOX 12 X 12 X 10 INCHES                         |
| 811.71          | JUNCTION BOX 18 X 12 X 8 INCHES                          |
| 811.72          | JUNCTION BOX 18 X 12 X 10 INCHES                         |
| 811.8           | JUNCTION BOX 24 X 8 X 8 INCHES                           |
| 811.81          | JUNCTION BOX 24 X 8 X 12 INCHES                          |
| 811.82          | JUNCTION BOX 24 X 8 X 18 INCHES                          |
| 811.83          | JUNCTION BOX 24 X 10 X 16 INCHES                         |
| 811.84          | JUNCTION BOX 24 X 12 X 8 INCHES                          |
| 811.85          | JUNCTION BOX 24 X 12 X 12 INCHES                         |
| 811.86          | JUNCTION BOX 24 X 14 X 10 INCHES                         |
| 811.87          | JUNCTION BOX 24 X 24 X 10 INCHES                         |
| 811.9           | JUNCTION BOX 30 X 24 X 12 INCHES                         |
| 812.09          | LIGHT STANDARD FOUNDATION PRECAST                        |
| 812.1           | LIGHT STANDARD FOUNDATION SD3.010                        |

| Cost Account ID | Cost Account Name                               |
|-----------------|---|
| 812.101         | LIGHT STANDARD FOUNDATION                       |
| 812.11          | LIGHT STANDARD FOUNDATION SD3.011               |
| 812.12          | LIGHT STANDARD FOUNDATION SD3.012               |
| 812.13          | LIGHT STANDARD FOUNDATION SD3.013               |
| 812.14          | LIGHT STANDARD FOUNDATION SD3.014               |
| 812.15          | LIGHT STANDARD FOUNDATION SD3.015               |
| 812.16          | STREET LIGHT FOUNDATION                         |
| 812.2           | LIGHTING LOAD CENTER FOUNDATION                 |
| 812.3           | STANDARD SIGNAL POST FOUNDATION SD3.030         |
| 812.31          | PEDESTAL SIGNAL POST FOUNDATION SD3.031         |
| 812.4           | SIGNAL MAST ARM FOUNDATION                      |
| 812.41          | SIGNAL MAST ARM FOUNDATION - MUNICIPAL STANDARD |
| 812.5           | CONTROL CABINET AND FOUNDATION                  |
| 813.1           | TRAFFIC SIGNAL STEEL MESSENGER CABLE - TYPE 0   |
| 813.21          | TRAFFIC SIGNAL CABLE - TYPE 1                   |
| 813.22          | TRAFFIC SIGNAL CABLE - TYPE 2                   |
| 813.23          | TRAFFIC SIGNAL CABLE - TYPE 3                   |
| 813.24          | TRAFFIC SIGNAL CABLE - TYPE 4                   |
| 813.25          | TRAFFIC SIGNAL CABLE - TYPE 5                   |
| 813.26          | TRAFFIC SIGNAL HEAD WIRE TYPE 6                 |
| 813.3           | WIRE TYPE 7 NO. 10 GENERAL PURPOSE              |
| 813.31          | WIRE TYPE 7 NO. 8 GENERAL PURPOSE               |
| 813.32          | WIRE TYPE 7 NO. 6 GENERAL PURPOSE               |
| 813.33          | WIRE TYPE 7 NO. 4 GENERAL PURPOSE               |
| 813.34          | WIRE TYPE 7 NO. 2 GENERAL PURPOSE               |
| 813.35          | WIRE TYPE 7 NO. 1 GENERAL PURPOSE               |
| 813.36          | WIRE TYPE 7 NO. 1/0 GENERAL PURPOSE             |
| 813.37          | WIRE TYPE 7 NO. 2/0 GENERAL PURPOSE             |
| 813.38          | WIRE TYPE 7 NO. 3/0 GENERAL PURPOSE             |
| 813.39          | WIRE TYPE 7 NO. 4/0 GENERAL PURPOSE             |
| 813.4           | WIRE TYPE 8 NO. 10 DIRECT BURIAL                |
| 813.41          | WIRE TYPE 8 NO. 8 DIRECT BURIAL                 |
| 813.42          | WIRE TYPE 8 NO. 6 DIRECT BURIAL                 |
| 813.43          | WIRE TYPE 8 NO. 4 DIRECT BURIAL                 |
| 813.44          | WIRE TYPE 8 NO. 2 DIRECT BURIAL                 |
| 813.45          | WIRE TYPE 8 NO. 1 DIRECT BURIAL                 |
| 813.46          | WIRE TYPE 8 NO. 1/0 DIRECT BURIAL               |
| 813.47          | WIRE TYPE 8 NO. 2/0 DIRECT BURIAL               |
| 813.48          | WIRE TYPE 8 NO. 3/0 DIRECT BURIAL               |
| 813.49          | WIRE TYPE 8 NO. 4/0 DIRECT BURIAL               |
| 813.5           | WIRE TYPE 9 SPECIAL PURPOSE (TW - THW)          |
| 813.51          | WIRE TYPE 9 SPECIAL PURPOSE (UF)                |
| 813.52          | WIRE TYPE 10 - #8 GROUNDING AND BONDING         |
| 813.53          | WIRE TYPE 11 - LOOP DETECTOR LEAD IN            |
| 813.54          | WIRE TYPE 12 - HEAVY DUTY PORTABLE CORD         |
| 813.55          | WIRE TYPE 13 - LOOP DETECTOR WIRE AND TUBE      |
| 813.6           | EQUIPMENT GROUNDING                             |

| Cost Account ID | Cost Account Name                              |
|-----------------|--|
| 813.7           | GROUND ROD                                     |
| 813.71          | GROUND ROD 8 FT. LONG                          |
| 813.72          | GROUND ROD 10 FT. LONG                         |
| 813.79          | INTERCONNECT CABLE SYSTEM                      |
| 813.791         | INTERCONNECT CABLE SYSTEM-755                  |
| 813.8           | SERVICE CONNECTION (OVERHEAD)                  |
| 813.81          | SERVICE CONNECTION (UNDERGROUND)               |
| 813.811         | ELECTRIC SERVICE CONNECTION - LOCATION 1       |
| 813.812         | ELECTRIC SERVICE CONNECTION - LOCATION 2       |
| 813.813         | ELECTRIC SERVICE CONNECTION - LOCATION 3       |
| 815             | TRAFFIC CONTROL SIGNAL                         |
| 815.1           | TRAFFIC CONTROL SIGNAL LOCATION NO. 1          |
| 815.2           | TRAFFIC CONTROL SIGNAL LOCATION NO. 2          |
| 815.3           | TRAFFIC CONTROL SIGNAL LOCATION NO. 3          |
| 815.4           | TRAFFIC CONTROL SIGNAL LOCATION NO. 4          |
| 815.5           | TRAFFIC CONTROL SIGNAL LOCATION NO. 5          |
| 815.98          | FOOTING COST ADJUSTMENT                        |
| 815.99          | TRAFFIC SIGNAL MODIFICATIONS                   |
| 816             | TRAFFIC SIGNAL REMOVED AND RESET               |
| 816.01          | TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 1   |
| 816.02          | TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 2   |
| 816.03          | TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 3   |
| 816.04          | TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 4   |
| 816.4           | TRAFFIC CONTROL SIGNAL REMOVED AND RESET       |
| 816.8           | TRAFFIC CONTROL SIGNAL REMOVED AND STACKED     |
| 816.81          | TEMPORARY TRAFFIC CONTROL SIGNAL               |
| 816.815         | TEMPORARY TRAFFIC CONTROL SIGNAL LOCATION 5    |
| 816.816         | TEMPORARY TRAFFIC CONTROL SIGNAL LOCATION 6    |
| 816.82          | TRAFFIC CONTROL SIGNAL REMOVED AND DISCARDED   |
| 816.821         | TEMP. PORT. SOLAR TRAFF SIGNAL LOC. 1          |
| 816.822         | TEMP. PORT. SOLAR TRAFF SIGNAL LOC. 2          |
| 816.823         | TEMP. PORT. SOLAR TRAFF SIGNAL LOC. 3          |
| 816.824         | TEMP. PORT. SOLAR TRAFF SIGNAL LOC. 4          |
| 816.9           | TRAFFIC CONTROL SIGNAL REMOVED AND TRANSPORTED |
| 817.1           | SIGNAL POST AND BASE STANDARD - 8 FOOT         |
| 817.11          | SIGNAL POST AND BASE STANDARD - 10 FOOT        |
| 817.2           | SIGNAL POST AND BASE PEDESTAL - 8 FOOT         |
| 817.21          | SIGNAL POST AND BASE PEDESTAL - 10 FOOT        |
| 817.3           | SIGNAL POST STANDARD - 6 FT. - 10 IN.          |
| 817.31          | SIGNAL POST STANDARD - 8 FT. - 10 IN.          |
| 817.32          | SIGNAL POST PEDESTAL - 6 FT. - 10 IN.          |
| 817.33          | SIGNAL POST PEDESTAL - 8 FT. - 10 IN.          |

| Cost Account ID | Cost Account Name                                       |
|-----------------|---|
| 817.4           | SIGNAL BASE STANDARD - 14 INCH OCTAGONAL                |
| 817.41          | SIGNAL BASE PEDESTAL - 15 INCH SQUARE                   |
| 817.5           | SIGNAL MAST ARM 20 FEET - ALUMINUM                      |
| 817.51          | SIGNAL MAST ARM 25 FEET - ALUMINUM                      |
| 817.52          | SIGNAL MAST ARM 30 FEET - ALUMINUM                      |
| 817.53          | SIGNAL MAST ARM 35 FEET - ALUMINUM                      |
| 817.6           | SIGNAL MAST ARM 20 FEET - STEEL                         |
| 817.61          | SIGNAL MAST ARM 25 FEET - STEEL                         |
| 817.62          | SIGNAL MAST ARM 30 FEET - STEEL                         |
| 817.63          | SIGNAL MAST ARM 35 FEET - STEEL                         |
| 817.7           | SIGNAL AND LIGHTING MAST ARM 30 FEET X 6 FEET           |
| 817.71          | SIGNAL AND LIGHTING MAST ARM 35 FEET X 6 FEET           |
| 817.72          | SIGNAL AND LIGHTING MAST ARM 40 FEET X 6 FEET           |
| 817.73          | SIGNAL AND LIGHTING MAST ARM 30 FEET X 8 FEET           |
| 817.74          | SIGNAL AND LIGHTING MAST ARM 35 FEET X 8 FEET           |
| 817.75          | SIGNAL AND LIGHTING MAST ARM 40 FEET X 8 FEET           |
| 818.01          | SIGNAL HEAD 1 WAY, ONE SECTION 8 INCH LENS              |
| 818.02          | SIGNAL HEAD 1 WAY, TWO SECTION 8 INCH LENS              |
| 818.03          | SIGNAL HEAD 1 WAY, THREE SECTION 8 INCH LENS            |
| 818.04          | SIGNAL HEAD 1 WAY, FOUR SECTION 8 INCH LENS             |
| 818.05          | SIGNAL HEAD 1 WAY, FIVE SECTION 8 INCH LENS             |
| 818.11          | SIGNAL HEAD 1 WAY, ONE SECTION 12 INCH LENS             |
| 818.12          | SIGNAL HEAD 1 WAY, TWO SECTION 12 INCH LENS             |
| 818.13          | SIGNAL HEAD 1 WAY, THREE SECTION 12 INCH LENS           |
| 818.14          | SIGNAL HEAD 1 WAY, FOUR SECTION 12 INCH LENS            |
| 818.15          | SIGNAL HEAD 1 WAY, FIVE SECTION 12 INCH LENS            |
| 818.23          | SIGNAL HEAD 1 WAY, THREE SECTION TWO - 12 INCH LENS     |
| 818.24          | SIGNAL HEAD 1 WAY, FOUR SECTION TWO - 12 INCH LENS      |
| 818.25          | SIGNAL HEAD 1 WAY, FIVE SECTION TWO - 12 INCH LENS      |
| 818.33          | SIGNAL HEAD 1 WAY, THREE SECTION 12 INCH RED LENS       |
| 818.34          | SIGNAL HEAD 1 WAY, FOUR SECTION 12 INCH RED LENS        |
| 818.35          | SIGNAL HEAD 1 WAY, FIVE SECTION 12 INCH RED LENS        |
| 818.4           | SIGNAL HEAD 1 WAY, 1 SECTION 9 INCH SQUARE LENS         |
| 818.41          | 9 IN. INCANDESCENT PEDESTRIAN SIGNAL HEAD-INTRN.SYMBOLS |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 818.42          | 12 IN.INCANDESCENT PEDESTRIAN SIGNAL HEAD-INTRN.SYMBOLS  |
| 818.43          | 12 IN.FIBEROPTIC PEDESTRIAN SIGNAL HEAD-INTERNAT.SYMBOLS |
| 818.51          | 1 WAY POST TOP MOUNTING ASSEMBLY                         |
| 818.52          | 2 WAY POST TOP MOUNTING ASSEMBLY                         |
| 818.53          | 3 WAY POST TOP MOUNTING ASSEMBLY                         |
| 818.54          | 4 WAY POST TOP MOUNTING ASSEMBLY                         |
| 818.55          | MAST ARM MOUNTING ASSEMBLY 1 WAY                         |
| 818.56          | MAST ARM MOUNTING ASSEMBLY 2 WAY                         |
| 818.57          | MAST ARM MOUNTING ASSEMBLY 3 WAY                         |
| 818.58          | MAST ARM MOUNTING ASSEMBLY 4 WAY                         |
| 818.59          | POST SIDE MOUNTING ASSEMBLY 1 WAY                        |
| 818.6           | POST SIDE MOUNTING ASSEMBLY 2 WAY                        |
| 818.61          | POST SIDE MOUNTING ASSEMBLY 3 WAY                        |
| 818.62          | POST SIDE MOUNTING ASSEMBLY 4 WAY                        |
| 818.63          | SPAN WIRE MOUNTING ASSEMBLY 1 WAY                        |
| 818.64          | SPAN WIRE MOUNTING ASSEMBLY 2 WAY                        |
| 818.65          | SPAN WIRE MOUNTING ASSEMBLY 3 WAY                        |
| 818.66          | SPAN WIRE MOUNTING ASSEMBLY 4 WAY                        |
| 818.7           | LOUVERED HOOD FOR 8 INCH SIGNAL SECTION                  |
| 818.71          | LOUVERED HOOD FOR 12 INCH SIGNAL SECTION                 |
| 818.8           | BACK-PLATES FOR 8 INCH SIGNAL HEAD                       |
| 818.81          | BACK-PLATES FOR 12 INCH SIGNAL HEAD                      |
| 818.82          | BACK-PLATES FOR COMBINED 8 INCH + 12 INCH SIGNAL HEAD    |
| 818.95          | POLE CLAMP WITH WIRE ENTRANCE                            |
| 819             | TRAFFIC SIGNAL CONTROLLER                                |
| 819.1           | TRAFFIC SIGNAL CONTROLLER LOCATION NO. 1                 |
| 819.2           | TRAFFIC SIGNAL CONTROLLER LOCATION NO. 2                 |
| 819.3           | TRAFFIC SIGNAL CONTROLLER LOCATION NO. 3                 |
| 819.39          | 8 PHASE, MENU-DRIVEN TRAFFIC CONTROL UNIT                |
| 819.4           | TRAFFIC SIGNAL CONTROLLER LOCATION NO. 4                 |
| 819.5           | TRAFFIC SIGNAL CONTROLLER LOCATION NO. 5                 |
| 819.5           | RAILROAD PRE-EMPTOR                                      |
| 819.51          | FIRE STATION PRE-EMPTOR                                  |
| 819.72          | DETECTOR UNIT CONFLICTING GREEN                          |
| 819.8           | MAGNETIC DETECTOR AMPLIFIER                              |
| 819.801         | VEHICLE DETECTOR (DIRECTIONAL) COMPENSATED MAGNETIC      |
| 819.802         | VEHICLE DETECTOR (MULTI-LANE) NON-COMPENSATED MAGNETIC   |
| 819.803         | VEHICLE DETECTOR (SINGLE-LANE) NON-COMPENSATED MAGNETIC  |
| 819.81          | DETECTOR AMPLIFIER - MAGNETIC (SPECIAL)                  |
| 819.811         | DETECTOR SENSING HEAD - MAGNETIC (SPECIAL)               |
| 819.82          | VEHICLE PRESENCE DETECTOR - ULTRASONIC                   |
| 819.821         | VEHICLE MOTION DETECTOR - ULTRASONIC                     |
| 819.83          | INDUCTIVE LOOP DETECTOR AMPLIFIER                        |
| 819.831         | WIRE LOOP INSTALLED IN ROADWAY                           |
| 819.832         | MICROLOOP INSTALLED IN ROADWAY                           |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 819.841         | VEHICLE DETECTION -VIDEO                                     |
| 819.85          | PEDESTRIAN PUSH BUTTON                                       |
| 819.851         | PUSH BUTTON FOR GREEN LIGHT (SIGN)                           |
| 819.852         | PUSH BUTTON FOR WALK SIGNAL (SIGN)                           |
| 820.1           | HIGHWAY LIGHTING - ROADWAY                                   |
| 820.11          | HIGHWAY LIGHTING - UNDERPASS                                 |
| 820.12          | HIGHWAY LIGHTING - AREA                                      |
| 820.13          | HIGHWAY LIGHTING - SIGN                                      |
| 821.1           | HIGHWAY LIGHTING POLE (ANCHOR BASE) 4 FOOT BRACKET           |
| 821.11          | HIGHWAY LIGHTING POLE (ANCHOR BASE) 6 FOOT BRACKET           |
| 821.12          | HIGHWAY LIGHTING POLE (ANCHOR BASE) 8 FOOT BRACKET           |
| 821.13          | HIGHWAY LIGHTING POLE (ANCHOR BASE) 10 FOOT BRACKET          |
| 821.14          | HIGHWAY LIGHTING POLE (ANCHOR BASE) 12 FOOT BRACKET          |
| 821.15          | HIGHWAY LIGHTING POLE (ANCHOR BASE) 15 FOOT BRACKET          |
| 821.2           | HIGHWAY LIGHTING POLE (ANCHOR BASE) TWIN 4 FOOT BRACKET      |
| 821.21          | HIGHWAY LIGHTING POLE (ANCHOR BASE) TWIN 6 FOOT BRACKET      |
| 821.22          | HIGHWAY LIGHTING POLE (ANCHOR BASE) TWIN 8 FOOT BRACKET      |
| 821.23          | HIGHWAY LIGHTING POLE (ANCHOR BASE) TWIN 10 FOOT BRACKET     |
| 821.24          | HIGHWAY LIGHTING POLE (ANCHOR BASE) TWIN 12 FOOT BRACKET     |
| 821.25          | HIGHWAY LIGHTING POLE (ANCHOR BASE) TWIN 15 FOOT BRACKET     |
| 822.1           | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) 4 FOOT BRACKET      |
| 822.11          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) 6 FOOT BRACKET      |
| 822.12          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) 8 FOOT BRACKET      |
| 822.13          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) 10 FOOT BRACKET     |
| 822.14          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) 12 FOOT BRACKET     |
| 822.15          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) 15 FOOT BRACKET     |
| 822.2           | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) TWIN 4 FOOT BRACKET |
| 822.21          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) TWIN 6 FOOT BRACKET |
| 822.22          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) TWIN 8 FOOT BRACKET |
| 822.23          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) TWIN 10 FT BRACKET  |
| 822.24          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) TWIN 12 F BRACKET   |
| 822.25          | HIGHWAY LIGHTING POLE (TRANSFORMER BASE) TWIN 15 F BRACKET   |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 822.8           | AREA LIGHTING HINGED POLE (40 FOOT MOUNTING HEIGHT)         |
| 822.81          | AREA LIGHTING HINGED POLE (45 FOOT MOUNTING HEIGHT)         |
| 822.82          | AREA LIGHTING HINGED POLE (50 FOOT MOUNTING HEIGHT)         |
| 822.83          | AREA LIGHTING MAST POLE OR TOWER (40 FOOT MOUNTING HEIGHT)  |
| 822.84          | AREA LIGHTING MAST POLE OR TOWER (45 FOOT MOUNTING HEIGHT)  |
| 822.85          | AREA LIGHTING MAST POLE OR TOWER (50 FOOT MOUNTING HEIGHT)  |
| 822.86          | AREA LIGHTING MAST POLE OR TOWER (60 FOOT MOUNTING HEIGHT)  |
| 822.87          | AREA LIGHTING MAST POLE OR TOWER (80 FOOT MOUNTING HEIGHT)  |
| 822.88          | AREA LIGHTING MAST POLE OR TOWER (100 FOOT MOUNTING HEIGHT) |
| 822.89          | AREA LIGHTING MAST POLE OR TOWER (110 FOOT MOUNTING HEIGHT) |
| 822.9           | AREA LIGHTING MAST POLE OR TOWER (120 FOOT MOUNTING HEIGHT) |
| 822.91          | AREA LIGHTING MAST POLE OR TOWER (130 FOOT MOUNTING HEIGHT) |
| 822.92          | AREA LIGHTING MAST POLE OR TOWER (140 FOOT MOUNTING HEIGHT) |
| 822.93          | AREA LIGHTING MAST POLE OR TOWER (150 F MOUNTING HEIGHT)    |
| 822.94          | AREA LIGHTING MAST POLE OR TOWER (160 F MOUNTING HEIGHT)    |
| 822.95          | AREA LIGHTING MAST POLE OR TOWER (170 F MOUNTING HEIGHT)    |
| 822.96          | AREA LIGHTING MAST POLE OR TOWER (180 F MOUNTING HEIGHT)    |
| 822.97          | AREA LIGHTING MAST POLE OR TOWER (190 F MOUNTING HEIGHT)    |
| 822.98          | AREA LIGHTING MAST POLE OR TOWER (200 F MOUNTING HEIGHT)    |
| 823.01          | ORNAMENTAL STREET LIGHTING SYSTEM                           |
| 823.1           | HIGHWAY LIGHTING LUMINAIRE 175 WATT                         |
| 823.11          | HIGHWAY LIGHTING LUMINAIRE 250 WATT                         |
| 823.12          | HIGHWAY LIGHTING LUMINAIRE 400 WATT                         |
| 823.13          | HIGHWAY LIGHTING LUMINAIRE 750 WATT                         |
| 823.14          | HIGHWAY LIGHTING LUMINAIRE 1000 WATT                        |
| 823.15          | AREA LIGHTING LUMINAIRE 175 WATT                            |
| 823.16          | AREA LIGHTING LUMINAIRE 250 WATT                            |
| 823.17          | AREA LIGHTING LUMINAIRE 400 WATT                            |
| 823.18          | AREA LIGHTING LUMINAIRE 750 WATT                            |
| 823.19          | AREA LIGHTING LUMINAIRE 1000 WATT                           |
| 823.2           | AREA LIGHTING LUMINAIRE 1600 WATT                           |
| 823.21          | AREA LIGHTING LUMINAIRE 4000 WATT                           |
| 823.22          | FLOOD LIGHTING LUMINAIRE LESS THAN 500 WATT                 |
| 823.23          | FLOOD LIGHTING LUMINAIRE 500 WATT AND OVER                  |

| Cost Account ID | Cost Account Name                                     |
|-----------------|---|
| 823.3           | UNDERPASS LIGHTING LUMINAIRE 4 FOOT FLUORESCENT       |
| 823.31          | UNDERPASS LIGHTING LUMINAIRE 6 FOOT FLUORESCENT       |
| 823.32          | UNDERPASS LIGHTING LUMINAIRE 8 FOOT FLUORESCENT       |
| 823.33          | SIGN LIGHTING LUMINAIRE 4 FOOT FLUORESCENT            |
| 823.34          | SIGN LIGHTING LUMINAIRE 6 FOOT FLUORESCENT            |
| 823.35          | SIGN LIGHTING LUMINAIRE 8 FOOT FLUORESCENT            |
| 823.4           | SIGN LIGHTING LUMINAIRE 175 WATT                      |
| 823.41          | SIGN LIGHTING LUMINAIRE 250 WATT                      |
| 823.5           | PHOTO ELECTRIC CONTROL                                |
| 823.51          | MULTIPLE CONTROL SWITCH                               |
| 823.52          | MULTIPLE CIRCUIT CONTACTOR                            |
| 823.53          | TIME CLOCK  |
| 823.54          | HYDRAULIC POWER UNIT                                  |
| 823.6           | HIGHWAY LIGHTING LOAD CENTER                          |
| 823.61          | HIGHWAY LIGHTING LOAD CENTER NO.1                     |
| 823.62          | HIGHWAY LIGHTING LOAD CENTER NO.2                     |
| 823.7           | HIGHWAY LIGHTING POLE AND LUMINAIRE REMOVED AND RESET |
| 823.71          | HIGHWAY LIGHTING POLE AND LUMINAIRE REMOVED & STACKED |
| 823.72          | LIGHTING REMOVED AND RESET                            |
| 823.8           | LIGHTING AND TRAFFIC SIGNAL POLE                      |
| 823.81          | STEEL STRAIN POLE                                     |
| 823.83          | STRAIN POLE ASSEMBLY                                  |
| 824.1           | FLASHING WARNING BEACON TYPE D                        |
| 824.2           | FLASHING WARNING BEACON TYPE A                        |
| 824.3           | FLASHING WARNING BEACON TYPE B                        |
| 824.4           | FLASHING WARNING BEACON TYPE C                        |
| 824.5           | FLASHING WARNING BEACON REMOVED AND RESET             |
| 824.51          | FLASHING WARNING BEACON REMOVED AND STACKED           |
| 824.52          | FLASHING WARNING BEACON REMOVED AND TRANSPORTED       |
| 824.6           | HIGHWAY WARNING SIGN - ILLUMINATED                    |
| 824.61          | HIGHWAY WARNING SIGN - ILLUMINATED-4                  |
| 824.7           | HIGHWAY WARNING SIGN - ILLUM. REMOVED AND RESET       |
| 824.71          | HIGHWAY WARNING SIGN - ILLUM. REMOVED AND STACKED     |
| 824.72          | HIGHWAY WARNING SIGN - ILLUM. REMOVED & TRANSPORTED   |
| 824.8           | LIGHTED BARRIER ARROWS                                |
| 824.81          | LIGHTED BARRIER ARROWS-2880                           |
| 824.9           | LIGHTED BARRIER ARROWS REMOVED AND RESET              |

| Cost Account ID | Cost Account Name  |
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| 824.91          | LIGHTED BARRIER ARROWS REMOVED AND STACKED                 |
| 824.92          | LIGHTED BARRIER ARROWS REMOVED AND TRANSPORTED             |
| 824.93          | LIGHTED BARRIER ARROWS REMOVED TRANSPORTED AND RESET       |
| 826.51          | FIRE ALARM BOX REMOVED AND RESET                           |
| 826.52          | FIRE ALARM BOX REMOVED AND STACKED                         |
| 826.53          | FIRE ALARM BOX AND POST R&R (ECP AND BASE)                 |
| 826.6           | POLICE SIGNAL CALL BOX                                     |
| 826.61          | POLICE SIGNAL CALL BOX REMOVED AND RESET                   |
| 826.62          | POLICE SIGNAL CALL BOX REMOVED AND RESET-7975              |
| 826.63          | POLICE SIGNAL BOX AND POST R&R (ECP AND BASE)              |
| 826.7           | ELECTRIC SERV/ RISER                                       |
| 827.21          | 24 INCH WARNING CLUSTER (H1-2) - ALUMINUM PANEL (TYPE A)   |
| 827.22          | 36 INCH WARNING CLUSTER (H1-2) - ALUMINUM PANEL (TYPE A)   |
| 827.33          | ABUTMENT WARNING SIGN (H1-3) - ALUMINUM PANEL (TYPE A)     |
| 828.01          | OVERHEAD GUIDE SIGN REMOVED AND RESET                      |
| 828.02          | OVERHEAD GUIDE SIGN REMOVED AND STACKED                    |
| 828.03          | OVERHEAD GUIDE SIGN REMOVED                                |
| 828.04          | GROUND MOUNTED SIGN SUPPORT- CLEANED AND PAINTED           |
| 828.05          | GROUND MOUNTED SIGN PANEL- CLEANED AND PAINTED             |
| 828.1           | OVERHEAD GUIDE SIGN - ALUMINUM PANEL (TYPE B)              |
| 829.1           | ROADSIDE GUIDE SIGN (MR) - ALUMINUM PANEL (TYPE B)         |
| 830.1           | ROADSIDE GUIDE SIGN (FR) OVER 25 SF - ALUM. PANEL (TYPE B) |
| 830.211         | PROJECT FUNDING SOURCE SIGN                                |
| 830.212         | PROJECT FUNDING SOURCE SIGN - EXCLUDING FABRICATION        |
| 831             | ROADSIDE GUIDE SIGN (D6/D8) - ALUM PANEL TYPE A            |
| 831.1           | ROADSIDE GUIDE SIGN (FR) 25 SF & UNDER-ALUM.PANEL(TYPE A)  |
| 832             | WARNING - REGULATORY AND ROUTE MARKER - ALUM PANEL         |
| 832.1           | WARNING-REGULATORY AND ROUTE MARKER - ALUM. PANEL (TYPE A) |
| 833.1           | 1-WH DEMOUNTABLE REFLECTORIZED DELINEATOR (H1-4)           |
| 833.11          | 1-AM DEMOUNTABLE REFLECTORIZED DELINEATOR (H1-8)           |
| 833.2           | 2-WH DEMOUNTABLE REFLECTORIZED DELINEATOR (H1-7)           |
| 833.3           | 2-AM DEMOUNTABLE REFLECTORIZED DELINEATOR (H1-5)           |
| 833.4           | 3-AM DEMOUNTABLE REFLECTORIZED DELINEATOR (H1-6)           |

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| 833.5           | DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARD RAIL            |
| 833.7           | DELINEATION FOR GUARD RAIL TERMINI                           |
| 834             | DEMOUNTABLE REFLECTORIZED REFERENCE LOCATION SIGN            |
| 834.17          | REFLECTORIZED FLEXIBLE DELINEATOR POST (AMBER)               |
| 834.18          | REFLECTORIZED FLEXIBLE DELINEATOR POST (WHITE)               |
| 835             | DEMOUNTABLE REFLECTORIZED HAZARD MARKER (H1-1)               |
| 836             | DEMOUNTABLE REFLECTORIZED PROJECT MARKER                     |
| 836.5           | DEMOUNTABLE REFLECTORIZED STATION MARKER                     |
| 840.101         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-1) STEEL                |
| 840.102         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-2) STEEL                |
| 840.103         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-3) STEEL                |
| 840.104         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-4) STEEL                |
| 840.105         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-5) STEEL                |
| 840.106         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-6) STEEL                |
| 840.107         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-7) STEEL                |
| 840.108         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-8) STEEL                |
| 840.109         | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-9) STEEL                |
| 840.11          | SUPPORTS FOR OVERHEAD GUIDE SIGN (OD-10) STEEL               |
| 841.1           | SUPPORTS FOR GUIDE SIGN (D6 W/ D8-5 INCH TUBULAR POST) STEEL |
| 841.2           | SUPPORTS FOR GUIDE SIGN (D6-5 INCH TUBULAR POST) STEEL       |
| 841.3           | SUPPORTS FOR GUIDE SIGN (D6-P5 POSTS) STEEL                  |
| 841.4           | SUPPORTS FOR GUIDE SIGN (D8-4 INCH TUBULAR POST) STEEL       |
| 841.5           | SUPPORTS FOR GUIDE SIGN (D8-P5 POSTS) STEEL                  |
| 841.6           | SUPPORTS FOR GUIDE SIGN (I-2A-5 INCH TUBULAR POST) STEEL     |
| 841.7           | SUPPORTS FOR GUIDE SIGN (D6 WITH D8 - SPECIAL DESIGN) STEEL  |
| 841.8           | SUPPORTS FOR GUIDE SIGN (D6 - SPECIAL DESIGN) STEEL          |
| 842.101         | SUPPORTS FOR GUIDE SIGN (GF-1) STEEL                         |
| 842.102         | SUPPORTS FOR GUIDE SIGN (GF-2) STEEL                         |
| 842.103         | SUPPORTS FOR GUIDE SIGN (GF-3) STEEL                         |
| 842.104         | SUPPORTS FOR GUIDE SIGN (GF-4) STEEL                         |
| 842.105         | SUPPORTS FOR GUIDE SIGN (GF-5) STEEL                         |
| 844.101         | SUPPORTS FOR GUIDE SIGN (G1) STEEL                           |
| 844.102         | SUPPORTS FOR GUIDE SIGN (G2) STEEL                           |

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| 844.103         | SUPPORTS FOR GUIDE SIGN (G3) STEEL                            |
| 844.104         | SUPPORTS FOR GUIDE SIGN (G4) STEEL                            |
| 844.105         | SUPPORTS FOR GUIDE SIGN (G5) STEEL                            |
| 845.1           | SUPPORT FOR GUIDE SIGN (E5-1) STEEL                           |
| 846.1           | SUPPORT FOR GUIDE SIGN (E5-1A) STEEL                          |
| 847.1           | SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL   |
| 848.1           | SIGN SUP (N/GUIDE)+RTE MKR W/2 BRKWAY POST ASSEMBLIES-STEEL   |
| 850.41          | ROADWAY FLAGGER   |
| 851             | SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS                   |
| 851.1           | TRAFFIC CONES FOR TRAFFIC MANAGEMENT                          |
| 852             | SAFETY SIGNING FOR CONSTRUCTION OPERATIONS                    |
| 853             | PORTABLE BARRICADE TYPE III                                   |
| 853.1           | PORTABLE BREAKAWAY BARRICADE TYPE III                         |
| 853.2           | TEMPORARY CONCRETE BARRIER                                    |
| 853.21          | TEMPORARY CONCRETE BARRIER REMOVED & RESET                    |
| 853.22          | TEMPORARY CONCRETE BARRIER REMOVED AND STACKED                |
| 853.3           | TEMPORARY RESTRAINED BARRIER                                  |
| 853.31          | TEMPORARY RESTRAINED BARRIER REMOVED AND RESET                |
| 853.36          | TEMPORARY CONCRETE BARRIER ON BRIDGE (SINGLE FACED)           |
| 853.37          | TEMPORARY CONCRETE BARRIER ON BRIDGE REMOVED & RESET          |
| 853.38          | TEMPORARY CONCRETE BARRIER ON BRIDGE (SINGLE FACED)-SOUTHWICK |
| 853.4           | IMPACT ATTENUATOR   |
| 853.403         | MOVABLE IMPACT ATTENUATOR                                     |
| 853.41          | TEMP.IMP.ATTENUATOR FOR SHLDR, INCAPABLE OF REDIRECTION       |
| 853.411         | TEMP.IMP.ATTENUATOR FOR SHLDR, INCAPABLE OF REDIRECTION R&R   |
| 853.412         | TEMP. INP. ATTENUATOR FOR SHLD-INCAPABLE OF REDIRECTION R&S   |
| 853.42          | TEMP.IMP.ATTENUATOR FOR SHLDR, CAPABLE OF REDIRECTION         |
| 853.421         | TEMP.IMP.ATTENUATOR FOR SHLDR, CAPABLE OF REDIRECTION R&R     |
| 853.43          | TEMP.IMP.ATTENUATOR FOR MEDIAN, INCAPABLE OF REDIRECTION      |
| 853.431         | TEMP.IMP.ATTENUATOR FOR MEDIAN, INCAPABLE OF REDIRECTION, R&R |
| 853.44          | TEMP.IMP.ATTENUATOR FOR MEDIAN, CAPABLE OF REDIRECTION        |
| 853.441         | TEMP.IMP.ATTENUATOR FOR MEDIAN, CAPABLE OF REDIRECTION, R&R   |
| 853.5           | TEMPORARY ANTI-GLARE SCREEN (PADDLE TYPE)                     |
| 853.6           | TEMPORARY ANTI-GLARE SCREEN REMOVED AND RESET                 |

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| 853.7           | TEMPORARY ANTI-GLARE SCREEN REMOVED AND STACKED             |
| 853.8           | TEMPORARY ILLUMINATION FOR NIGHT WORK                       |
| 853.9           | TEMP. ILLUMINATION FOR NIGHT PAVING & PLANING OPERATIONS    |
| 854             | TEMPORARY RAISED PAVEMENT MARKERS                           |
| 854.011         | TEMPORARY PAVING MARKINGS - 12 IN                           |
| 854.014         | TEMPORARY PAVING MARKINGS - 4 IN. (PAINTED)                 |
| 854.016         | TEMPORARY PAVING MARKINGS - 6 IN. (PAINTED)                 |
| 854.024         | TEMPORARY PAVEMENT MARKINGS - 4 IN. (NON-REMOVABLE TAPE)    |
| 854.026         | TEMPORARY PAVEMENT MARKINGS - 6 IN. (NON-REMOVABLE TAPE)    |
| 854.034         | TEMPORARY PAVEMENT MARKINGS - 4 IN. (REMOVABLE TAPE)        |
| 854.036         | TEMPORARY PAVEMENT MARKINGS - 6 IN. (REMOVABLE TAPE)        |
| 854.1           | PAVEMENT MARKING REMOVAL - PAINT                            |
| 854.112         | TEMPORARY PAVEMENT MARKINGS - 12 INCH (PAINTED)             |
| 854.2           | PAVEMENT MARKING REMOVAL - THERMOPLASTIC                    |
| 854.3           | PAVEMENT MARKING REMOVAL - TAPE                             |
| 854.4           | PAVEMENT MARKING MASKING (REMOVABLE TAPE)                   |
| 855.1           | HAZARD IDENTIFICATION BEACON TYPE B                         |
| 855.2           | HAZARD IDENTIFICATION BEACON TYPE D                         |
| 856             | SPECIAL LIGHTING UNIT (FLASHING ARROW)                      |
| 856.12          | PORTABLE CHANGEABLE MESSAGE SIGN                            |
| 856.2           | RADAR DETECTOR ACTIVATOR                                    |
| 859             | REFLECTORIZED DRUM  |
| 860.04          | 4 INCH REFLECTORIZED WHITE LINE (PAINTED)                   |
| 860.06          | 6 INCH REFLECTORIZED WHITE LINE (PAINTED)                   |
| 860.08          | 8 INCH REFLECTORIZED WHITE LINE (PAINTED)                   |
| 860.12          | 12 INCH REFLECTORIZED WHITE LINE (PAINTED)                  |
| 861.04          | 4 INCH REFLECTORIZED YELLOW LINE (PAINTED)                  |
| 861.06          | 6 INCH REFLECTORIZED YELLOW LINE (PAINTED)                  |
| 861.08          | 8 INCH REFLECTORIZED YELLOW LINE (PAINTED)                  |
| 861.12          | 12 INCH REFLECTORIZED YELLOW LINE (PAINTED)                 |
| 862             | GORE LINES - REFLECTORIZED WHITE (PAINTED)                  |
| 863             | GORE LINES - REFLECTORIZED YELLOW (PAINTED)                 |
| 864             | PAVEMENT ARROW REFLECTORIZED WHITE (PAINTED)                |
| 864.01          | PAVEMENT ARROW AND LEGENDS REFLECTORIZED WHITE TAPE (INLAY) |
| 864.02          | PAVEMENT ARROW AND LEGENDS (SURFACE APPLIED TAPE)           |
| 864.04          | PAVEMENT ARROWS AND LEGENDS REFL. WHITE (THERMOPLASTIC)     |
| 864.21          | RAISED PAVEMENT MARKER ONE-WAY WHITE                        |
| 864.22          | RAISED PAVEMENT MARKER ONE-WAY YELLOW                       |

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| 864.23          | RAISED PAVEMENT MARKER TWO-WAY WHITE/RED                 |
| 864.24          | RAISED PAVEMENT MARKER TWO-WAY YELLOW/RED                |
| 864.25          | RAISED PAVEMENT MARKER TWO-WAY YELLOW/YELLOW             |
| 864.251         | RAISED PAVEMENT MARKER REMOVAL                           |
| 864.31          | SLOTTED PAVEMENT MARKER ONE-WAY WHITE                    |
| 864.32          | SLOTTED PAVEMENT MARKER ONE-WAY YELLOW                   |
| 864.33          | SLOTTED PAVEMENT MARKER TWO-WAY WHITE/RED                |
| 864.34          | SLOTTED PAVEMENT MARKER TWO-WAY YELLOW/RED               |
| 864.35          | SLOTTED PAVEMENT MARKER TWO-WAY YELLOW/YELLOW            |
| 865             | CROSS WALKS AND STOP LINES REFLECTORIZED WHITE (PAINTED) |
| 865.1           | CROSS WALKS AND STOP LINES REFL. WHITE (THERMOPLASTIC)   |
| 866             | STRIPPING - REFLECTORIZED WHITE LINE (THERMOPLASTIC)     |
| 866.04          | 4 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)          |
| 866.06          | 6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)          |
| 866.08          | 8 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)          |
| 866.1           | 100 MM REFLECTORIZED WHITE LINE (THERMOPLASTIC)          |
| 866.12          | 12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)         |
| 866.15          | 150MM REFLECTORIZED WHITE LINE (THERMOPLASTIC)           |
| 867             | STRIPPING - REFLECTORIZED YELLOW LINE (THERMOPLASTIC)    |
| 867.04          | 4 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)         |
| 867.06          | 6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)         |
| 867.08          | 8 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)         |
| 867.1           | 100MM REFLECTORIZED YELLOW LINE (THERMOPLASTIC)          |
| 867.12          | 12 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)        |
| 867.15          | 150 MM REFLECTORIZED YELLOW LINE (THERMOPLASTIC)         |
| 868             | GORE LINES - REFLECTORIZED WHITE (THERMOPLASTIC)         |
| 869             | GORE LINES - REFLECTORIZED YELLOW (THERMOPLASTIC)        |
| 870.04          | 4 INCH WHITE REFLECTIVE TAPE (INLAY)                     |
| 871.04          | 4 INCH YELLOW REFLECTIVE TAPE (INLAY)                    |
| 872.04          | 4 INCH WHITE REFLECTIVE TAPE (SURFACE APPLIED)           |

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| 873.04          | 4 INCH YELLOW REFLECTIVE TAPE (SURFACE APPLIED)                  |
| 874             | STREET NAME SIGN   |
| 874.018         | STREET NAME SIGN MOUNTED ON MAST ARM                             |
| 874.1           | STREET SIGN REMOVED AND RESET                                    |
| 874.11          | STREET SIGN WITHOUT POST   |
| 874.12          | SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL-1226 |
| 874.2           | TRAFFIC SIGN REMOVED AND RESET                                   |
| 874.21          | SIGN R+R - LOC #1  |
| 874.22          | SIGN R+R - LOC #2  |
| 874.23          | SIGN R+R - LOC #3  |
| 874.3           | TRAFFIC SIGNS REMOVED AND STACKED                                |
| 874.4           | TRAFFIC SIGN REMOVED AND STACKED                                 |
| 874.41          | TRAFFIC SIGN REMOVED AND DISCARDED                               |
| 874.45          | MISCELLANEOUS SIGNS REMOVED AND RESET                            |
| 874.5           | MISCELLANEOUS SIGNS REMOVED AND STACKED                          |
| 874.51          | TRAFFIC SIGNS REMOVED AND DISCARDED                              |
| 874.6           | TEMPORARY MASKING OF SIGNS                                       |
| 874.7           | MISCELLANEOUS SIGNS REMOVED AND STACKED-1                        |
| 874.8           | MISCELLANEOUS SIGN REMOVED AND RESET                             |
| 875.1           | PARKING METER REMOVED AND RESET                                  |
| 875.2           | PARKING METER REMOVED AND STACKED                                |
| 875.21          | PARKING METER REMOVED AND DISCARDED                              |
| 876             | ELECTRIC POLE REMOVED AND STACKED                                |
| 877             | SIGN POST REMOVED AND RESET                                      |
| 877.1           | SIGN POST REMOVED AND DISCARDED                                  |
| 877.2           | SIGN POST REMOVED AND STACKED-2869                               |
| 877.3           | SIGN POST 2 INCH STEEL   |
| 877.4           | SIGN POST 2-1/2 INCH STEEL                                       |
| 901             | 4000 PSI, 1.5 IN., 565 CEMENT CONCRETE                           |
| 901.3           | 4000 PSI, 1.5 IN., 565 CEMENT CONCRETE FOR POST FOUNDATION       |
| 901.7           | CONTRACTOR QUALITY CONTROL - CEMENT CONCRETE                     |
| 902             | 3500 PSI, 1.5 IN., 520 CEMENT CONCRETE                           |
| 903             | 3000 PSI, 1.5 IN., 470 CEMENT CONCRETE                           |
| 903.1           | 2500 PSI 1.5IN 425 CEMENT CONCRETE                               |
| 904             | 4000 PSI, 3/4 IN., 610 CEMENT CONCRETE                           |
| 904.1           | 5000 PSI, 3/4 IN., 705 CEMENT CONCRETE                           |
| 904.12          | RAPID PATCHING CEMENT MORTAR                                     |
| 904.15          | HI-EARLY CEMENT CONCRETE   |
| 904.2           | 5000 PSI, 3/4 IN., 685 SILICA FUME MODIFIED CEMENT CONCRETE      |
| 904.3           | 5000 PSI, 3/4 IN., 685 HP CEMENT CONCRETE                        |
| 904.33          | PRECAST CONCRETE PANELS  |
| 904.4           | 4000 PSI, 3/4 IN., 585 HP CEMENT CONCRETE                        |
| 905             | 4000 PSI, 3/8 IN., 660 CEMENT CONCRETE                           |
| 905.1           | 5000 PSI, 3/8 IN., 710 SILICA FUME MODIFIED CEMENT CONCRETE      |

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| 905.2           | 5000 PSI, 3/8 IN., 710 HP CEMENT CONCRETE               |
| 906             | 5000 PSI, 1.5 IN., 660 CEMENT CONCRETE                  |
| 907             | SAWCUT GROOVES IN CONCRETE BRIDGE DECK                  |
| 908             | CEMENT FOR POINTING                                     |
| 908.1           | CONCRETE PENETRANT                                      |
| 908.2           | CEMENT CONCRETE FORM LINER - FRACTURED FIN              |
| 908.21          | JOINT PROTECTION  |
| 908.22          | JOINT PROTECTION REMOVED & RESET                        |
| 908.3           | CEMENT CONC. ARCH. TREATMENT - EXPOSED AGGREGATE FINISH |
| 908.99          | CEMENT FOR POINTING AND SETTING STONE                   |
| 909             | LIGHTWEIGHT CEMENT CONCRETE                             |
| 909.12          | POLYMER LATEX CONCRETE PATCH                            |
| 909.2           | CEMENTITIOUS MORTAR FOR PATCHING                        |
| 909.31          | SUPERSTRUCTURE CONCRETE PATCHING - SURFACE PATCH        |
| 909.32          | SUPERSTRUCTURE CONCRETE PATCHING - DEEP PATCH           |
| 909.4           | CEMENTITIOUS WALL COATING                               |
| 909.9           | UNDERWATER FOUNDATION INSPECTION                        |
| 909.99          | RAPID SET CEMENT  |
| 910             | STEEL REINFORCEMENT FOR STRUCTURES                      |
| 910.1           | STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED       |
| 910.2           | STEEL REINFORCEMENT FOR STRUCTURES - COATED             |
| 910.3           | STEEL REINFORCEMENT FOR STRUCTURES - GALVANIZED         |
| 910.4           | MECHANICAL REINFORCING BAR SPLICER                      |
| 911             | SHEAR CONNECTORS  |
| 911.1           | SHEAR CONNECTORS-4316                                   |
| 911.504         | 1/2 INCH DIAMETER HIGH STRENGTH BOLTS                   |
| 911.507         | 7/8 INCH DIAMETER HIGH STRENGTH BOLTS                   |
| 911.604         | 1/2 INCH DIAMETER HIGH STRENGTH BOLT                    |
| 911.607         | 7/8 INCH DIAMETER HIGH STRENGTH BOLT                    |
| 911.907         | 7/8 INCH DIAMETER COUNTERSUNK BOLT                      |
| 911.91          | EXPANSION BOLTS   |
| 912             | DRILLING AND GROUTING DOWELS                            |
| 912.1           | DRILLING AND GROUTING DOWELS-6409                       |
| 912.2           | DRILLING AND GROUTING DOWELS-M                          |
| 912.4           | DRILLED AND GROUTED #4 DOWELS                           |
| 912.5           | DRILLED AND GROUTED #5 DOWELS                           |
| 912.6           | DRILLED AND GROUTED #6 DOWELS                           |
| 912.7           | DRILLED AND GROUTED #7 DOWELS                           |
| 912.8           | DRILLED AND GROUTED #8 DOWELS                           |
| 912.9           | DRILLED AND GROUTED #9 DOWELS                           |
| 913.2           | CORING AND GROUTING ANCHOR BOLTS                        |
| 913.3           | CORING AND GROUTING DOWELS                              |
| 913.31          | CORING AND GROUTING DOWELS-9035                         |
| 913.4           | CORING AND GROUTING SWEDGE BOLTS                        |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 915.13          | ARCH FRAME UNIT (4 FT. OR LESS WIDE - 20 TO 24.99 FT. SPAN) |
| 915.14          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 20 TO 24.99 FT. SPAN) |
| 915.15          | ARCH FRAME UNIT (5.01 TO 6 FT. WIDE - TO 24.99 FT. SPAN)    |
| 915.16          | ARCH FRAME UNIT (OVER 6 FT. WIDE - 20 TO 24.99 FT. SPAN)    |
| 915.23          | ARCH FRAME UNIT (4 FT. OR LESS WIDE - 25 TO 29.99 FT. SPAN) |
| 915.24          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 25 TO 29.99 FT. SPAN) |
| 915.25          | ARCH FRAME UNIT (5.01 TO 6 FT. WIDE - TO 29.99 FT. SPAN)    |
| 915.26          | ARCH FRAME UNIT (OVER 6 FT. WIDE - 25 TO 29.99 FT. SPAN)    |
| 915.33          | ARCH FRAME UNIT (4 FT. OR LESS WIDE - 30 TO 34.99 FT. SPAN) |
| 915.34          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 30 TO 34.99 FT. SPAN) |
| 915.35          | ARCH FRAME UNIT (5.01 TO 6 FT. WIDE - TO 34.99 FT. SPAN)    |
| 915.36          | ARCH FRAME UNIT (OVER 6 FT. WIDE - 30 TO 34.99 FT. SPAN)    |
| 915.4           | BRICK MASONRY   |
| 915.43          | ARCH FRAME UNIT (4 FT. OR LESS WIDE - 35 TO 39.99 FT. SPAN) |
| 915.44          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 35 TO 39.99 FT. SPAN) |
| 915.45          | ARCH FRAME UNIT (5.01 TO 6 FT. WIDE - 35 TO 39.99 FT. SPAN) |
| 915.46          | ARCH FRAME UNIT (OVER 6 FT. WIDE - TO 39.99 FT. SPAN)       |
| 915.53          | ARCH FRAME UNIT (4 FT. OR LESS WIDE - 40 TO 44.99 FT. SPAN) |
| 915.54          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 40 TO 44.99 FT. SPAN) |
| 915.55          | ARCH FRAME UNIT (5.01 TO 6 FT. WIDE - 40 TO 44.99 FT. SPAN) |
| 915.56          | ARCH FRAME UNIT (OVER 6 FT. WIDE - TO 44.99 FT. SPAN)       |
| 915.63          | ARCH FRAME UNIT (4 FT. OR LESS WIDE - 45 TO 49.99 FT. SPAN) |
| 915.64          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 45 TO 49.99 FT. SPAN) |
| 915.65          | ARCH FRAME UNIT (5.01 TO 6 FT. WIDE - 45 TO 49.99 FT. SPAN) |
| 915.66          | ARCH FRAME UNIT (OVER 6 FT. WIDE - TO 49.99 FT. SPAN)       |
| 915.73          | ARCH FRAME UNIT (4FT. OR LESS WIDE - 50 TO 54.99 FT. SPAN)  |
| 915.74          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 50 TO 54.99 FT. SPAN) |
| 915.75          | ARCH FRAME UNIT (5.01 TO 6 FT. WIDE - 50 TO 54.99 FT. SPAN) |
| 915.76          | ARCH FRAME UNIT (OVER 6 FT. WIDE - TO 54.99 FT. SPAN)       |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 915.83          | ARCH FRAME UNIT (4 FT. OR LESS WIDE - 55 TO 59.99 FT. SPAN) |
| 915.84          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 55 TO 59.99 FT. SPAN) |
| 915.85          | ARCH FRAME UNIT (5.01 TO 6 FT. WIDE - 55 TO 59.99 FT. SPAN) |
| 915.86          | ARCH FRAME UNIT (OVER 6FT. WIDE - 55 TO 59.99 FT. SPAN)     |
| 915.93          | ARCH FRAME UNIT (4 FT. OR LESS WIDE - 60 OR MORE FOOT SPAN) |
| 915.94          | ARCH FRAME UNIT (4.01 TO 5 FT. WIDE - 60 OR MORE FT. SPAN)  |
| 915.95          | ARCH FRAME UNIT (5.01 TO 6FT. WIDE - -60 OR MORE FT. SPAN)  |
| 915.96          | ARCH FRAME UNIT (OVER 6 FT. WIDE - 60 OR MORE FT. SPAN)     |
| 916.01          | REPAIRS TO UNDERMINING AT PIER AND ABUTMENTS                |
| 917             | QUARRY FACED GRANITE  |
| 918.01          | POWER WASH CLEAN GUNITE SURFACES                            |
| 920             | GRANITE CAPSTONE  |
| 921.1           | LAMINATED ELASTOMERIC BEARING W/ ANCHOR BOLTS (0-50)        |
| 921.2           | LAMINATED ELASTOMERIC BEARING W/ ANCHOR BOLTS (51-100)      |
| 921.3           | LAMINATED ELASTOMERIC BEARING W/ ANCHOR BOLTS (101-150)     |
| 921.4           | LAMINATED ELASTOMERIC BEARING W/ ANCHOR BOLTS (151-200)     |
| 921.5           | LAMINATED ELASTOMERIC BEARING W/ ANCHOR BOLTS (>200)        |
| 922.1           | LAMINATED ELASTOMERIC BEARING W/O ANCHOR BOLTS (0-50)       |
| 922.2           | LAMINATED ELASTOMERIC BEARING W/O ANCHOR BOLTS (51-100)     |
| 922.3           | LAMINATED ELASTOMERIC BEARING W/O ANCHOR BOLTS (101-150)    |
| 922.4           | LAMINATED ELASTOMERIC BEARING W/O ANCHOR BOLTS (151-200)    |
| 922.5           | LAMINATED ELASTOMERIC BEARING W/O ANCHOR BOLTS (>200)       |
| 923.1           | LAM. SLIDING ELASTOMERIC BEARING W/ ANCHOR BOLTS (0-50)     |
| 923.2           | LAM. SLIDING ELASTOMERIC BEARING W/ ANCHOR BOLTS (51-100)   |
| 923.3           | LAM. SLIDING ELASTOMERIC BEARING W/ ANCHOR BOLTS (101-150)  |
| 923.4           | LAM. SLIDING ELASTOMERIC BEARING W/ ANCHOR BOLTS (151-200)  |
| 923.5           | LAM. SLIDING ELASTOMERIC BEARING W/ ANCHOR BOLTS (>200)     |
| 924.1           | LAM. SLIDING ELASTOMERIC BEARING W/O ANCHOR BOLTS (0-50)    |
| 924.2           | LAM. SLIDING ELASTOMERIC BEARING W/O ANCHOR BOLTS (51-100)  |
| 924.3           | LAM. SLIDING ELASTOMERIC BEARING W/O ANCHOR BOLTS (101-150) |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 924.4           | LAM. SLIDING ELASTOMERIC BEARING W/O ANCHOR BOLTS (151-200) |
| 924.5           | LAM. SLIDING ELASTOMERIC BEARING W/O ANCHOR BOLTS (>200)    |
| 925.99          | STONE VENEER  |
| 930.301         | PRESTRESSED CONCRETE DECK BEAMS (S36-12)                    |
| 930.302         | PRESTRESSED CONCRETE DECK BEAMS (S36-15)                    |
| 930.303         | PRESTRESSED CONCRETE DECK BEAMS (S36-18)                    |
| 930.304         | PRESTRESSED CONCRETE DECK BEAMS (S36-21)                    |
| 930.305         | PRESTRESSED CONCRETE DECK BEAMS (S48-12)                    |
| 930.306         | PRESTRESSED CONCRETE DECK BEAMS (S48-15)                    |
| 930.307         | PRESTRESSED CONCRETE DECK BEAMS (S48-18)                    |
| 930.308         | PRESTRESSED CONCRETE DECK BEAMS (S48-21)                    |
| 930.401         | PRESTRESSED CONCRETE BOX BEAMS (B36-24)                     |
| 930.402         | PRESTRESSED CONCRETE BOX BEAMS (B36-27)                     |
| 930.403         | PRESTRESSED CONCRETE BOX BEAMS (B36-30)                     |
| 930.404         | PRESTRESSED CONCRETE BOX BEAMS (B36-33)                     |
| 930.405         | PRESTRESSED CONCRETE BOX BEAMS (B36-36)                     |
| 930.406         | PRESTRESSED CONCRETE BOX BEAMS (B36-39)                     |
| 930.407         | PRESTRESSED CONCRETE BOX BEAMS (B36-42)                     |
| 930.408         | PRESTRESSED CONCRETE BOX BEAMS (B36-45)                     |
| 930.409         | PRESTRESSED CONCRETE BOX BEAMS (B36-48)                     |
| 930.41          | PRESTRESSED CONCRETE BOX BEAMS (B48-24)                     |
| 930.411         | PRESTRESSED CONCRETE BOX BEAMS (B48-27)                     |
| 930.412         | PRESTRESSED CONCRETE BOX BEAMS (B48-30)                     |
| 930.413         | PRESTRESSED CONCRETE BOX BEAMS (B48-33)                     |
| 930.414         | PRESTRESSED CONCRETE BOX BEAMS (B48-36)                     |
| 930.415         | PRESTRESSED CONCRETE BOX BEAMS (B48-39)                     |
| 930.416         | PRESTRESSED CONCRETE BOX BEAMS (B48-42)                     |
| 930.417         | PRESTRESSED CONCRETE BOX BEAMS (B48-45)                     |
| 930.418         | PRESTRESSED CONCRETE BOX BEAMS (B48-48)                     |
| 930.501         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-24)    |
| 930.502         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-27)    |
| 930.503         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-30)    |
| 930.504         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-33)    |
| 930.505         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-36)    |
| 930.506         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-39)    |
| 930.507         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-42)    |
| 930.508         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-45)    |
| 930.509         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B36-48)    |
| 930.51          | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-24)    |
| 930.511         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-27)    |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 930.512         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-30)     |
| 930.513         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-33)     |
| 930.514         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-36)     |
| 930.515         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-39)     |
| 930.516         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-42)     |
| 930.517         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-45)     |
| 930.518         | HIGH PERFORMANCE PRESTRESSED CONCRETE BOX BEAMS (B48-48)     |
| 931.01          | PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT 1000)              |
| 931.02          | PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT 1200)              |
| 931.03          | PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT 1400)              |
| 931.04          | PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT 1600)              |
| 931.05          | PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT 1800)              |
| 931.11          | HIGH PERFORM. PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT1000) |
| 931.12          | HIGH PERFORM. PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT1200) |
| 931.13          | HIGH PERFORM. PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT1400) |
| 931.14          | HIGH PERFORM. PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT1600) |
| 931.15          | HIGH PERFORM. PRESTRESSED CONCRETE BULB TEE BEAMS (NEBT1800) |
| 932             | ELASTOMERIC BRIDGE BEARING PAD                               |
| 933             | ELASTOMERIC BRIDGE BEARING PAD-1                             |
| 940             | UNTREATED TIMBER PILES                                       |
| 941             | TREATED TIMBER PILES   |
| 942.101         | STEEL PILE HP 10 X 42  |
| 942.102         | STEEL PILE HP 10 X 57  |
| 942.121         | STEEL PILE HP 12 X 53  |
| 942.122         | STEEL PILE HP 12 X 63.                                       |
| 942.123         | STEEL PILE HP 12 X 74  |
| 942.124         | STEEL PILE HP 12 X 84  |
| 942.141         | STEEL PILE HP 14 X 73  |
| 942.142         | STEEL PILE HP 14 X 89  |
| 942.143         | STEEL PILE HP 14 X 102                                       |
| 942.144         | STEEL PILE HP 14 X 117                                       |
| 942.9           | PREAUGERING OF HP 12X84 PILES                                |
| 942.91          | OBSTRUCTION EXCAVATION 2.0' DIA                              |
| 943.09          | STEEL PIPE PILE 8-5/8 INCH OUTSIDE DIAMETER                  |
| 943.1           | STEEL PIPE PILE 10 INCH OUTSIDE DIAMETER                     |
| 943.11          | STEEL PIPE PILE 10-3/4 INCH OUTSIDE DIAMETER                 |
| 943.12          | STEEL PIPE PILE 12 INCH OUTSIDE DIAMETER                     |

| Cost Account ID | Cost Account Name                            |
|-----------------|--|
| 943.13          | STEEL PIPE PILE 12-3/4 INCH OUTSIDE DIAMETER |
| 943.14          | STEEL PIPE PILE 14 INCH OUTSIDE DIAMETER     |
| 943.16          | STEEL PIPE PILE 16 INCH OUTSIDE DIAMETER     |
| 944.101         | STEEL PILE SPLICE HP 10 X 42                 |
| 944.102         | STEEL PILE SPLICE HP 10 X 57                 |
| 944.121         | STEEL PILE SPLICE HP 12 X 53                 |
| 944.122         | STEEL PILE SPLICE HP 12 X 63                 |
| 944.123         | STEEL PILE SPLICE HP 12 X 74                 |
| 944.124         | STEEL PILE SPLICE HP 12 X 84                 |
| 944.141         | STEEL PILE SPLICE HP 14 X 73                 |
| 944.142         | STEEL PILE SPLICE HP 14 X 89                 |
| 944.143         | STEEL PILE SPLICE HP 14 X 102                |
| 944.144         | STEEL PILE SPLICE HP 14 X 117.               |
| 944.2           | PRE-DRILLING FOR PILES                       |
| 945             | CAST-IN-PLACE CONCRETE PILES                 |
| 945.101         | DRILLED SHAFT EXCAVATION 3.0 FOOT DIAMETER   |
| 945.102         | DRILLED SHAFT EXCAVATION 3.5 FOOT DIAMETER   |
| 945.103         | DRILLED SHAFT EXCAVATION 4.0 FOOT DIAMETER   |
| 945.104         | DRILLED SHAFT EXCAVATION 4.5 FOOT DIAMETER   |
| 945.105         | DRILLED SHAFT EXCAVATION 5.0 FOOT DIAMETER   |
| 945.106         | DRILLED SHAFT EXCAVATION 5.5 FOOT DIAMETER   |
| 945.107         | DRILLED SHAFT EXCAVATION 6.0 FOOT DIAMETER   |
| 945.108         | DRILLED SHAFT EXCAVATION 6.5 FOOT DIAMETER   |
| 945.109         | DRILLED SHAFT EXCAVATION 7.0 FOOT DIAMETER   |
| 945.11          | DRILLED SHAFT EXCAVATION 7.5 FOOT DIAMETER   |
| 945.111         | DRILLED SHAFT EXCAVATION 8.0 FOOT DIAMETER   |
| 945.112         | DRILLED SHAFT EXCAVATION 8.5 FOOT DIAMETER   |
| 945.113         | DRILLED SHAFT EXCAVATION 9.0 FOOT DIAMETER   |
| 945.2           | ROCK SOCKET EXCAVATION 2.5 FOOT DIAMETER     |
| 945.201         | ROCK SOCKET EXCAVATION 3.0 FOOT DIAMETER     |
| 945.202         | ROCK SOCKET EXCAVATION 3.5 FOOT DIAMETER     |
| 945.203         | ROCK SOCKET EXCAVATION 4.0 FOOT DIAMETER     |
| 945.204         | ROCK SOCKET EXCAVATION 4.5 FOOT DIAMETER     |
| 945.205         | ROCK SOCKET EXCAVATION 5.0 FOOT DIAMETER     |
| 945.206         | ROCK SOCKET EXCAVATION 5.5 FOOT DIAMETER     |
| 945.207         | ROCK SOCKET EXCAVATION 6.0 FOOT DIAMETER     |
| 945.208         | ROCK SOCKET EXCAVATION 6.5 FOOT DIAMETER     |
| 945.209         | ROCK SOCKET EXCAVATION 7.0 FOOT DIAMETER     |
| 945.21          | ROCK SOCKET EXCAVATION 7.5 FOOT DIAMETER     |
| 945.211         | ROCK SOCKET EXCAVATION 8.0 FOOT DIAMETER     |

| Cost Account ID | Cost Account Name                        |
|-----------------|--|
| 945.212         | ROCK SOCKET EXCAVATION 8.5 FOOT DIAMETER |
| 945.213         | ROCK SOCKET EXCAVATION 9.0 FOOT DIAMETER |
| 945.301         | OBSTRUCTION EXCAVATION 3.0 FOOT DIAMETER |
| 945.302         | OBSTRUCTION EXCAVATION 3.5 FOOT DIAMETER |
| 945.303         | OBSTRUCTION EXCAVATION 4.0 FOOT DIAMETER |
| 945.304         | OBSTRUCTION EXCAVATION 4.5 FOOT DIAMETER |
| 945.305         | OBSTRUCTION EXCAVATION 5.0 FOOT DIAMETER |
| 945.306         | OBSTRUCTION EXCAVATION 5.5 FOOT DIAMETER |
| 945.307         | OBSTRUCTION EXCAVATION 6.0 FOOT DIAMETER |
| 945.308         | OBSTRUCTION EXCAVATION 6.5 FOOT DIAMETER |
| 945.309         | OBSTRUCTION EXCAVATION 7.0 FOOT DIAMETER |
| 945.31          | OBSTRUCTION EXCAVATION 7.5 FOOT DIAMETER |
| 945.311         | OBSTRUCTION EXCAVATION 8.0 FOOT DIAMETER |
| 945.312         | OBSTRUCTION EXCAVATION 8.5 FOOT DIAMETER |
| 945.313         | OBSTRUCTION EXCAVATION 9.0 FOOT DIAMETER |
| 945.401         | TRIAL SHAFT 3.0 FOOT DIAMETER            |
| 945.402         | TRIAL SHAFT 3.5 FOOT DIAMETER            |
| 945.403         | TRIAL SHAFT 4.0 FOOT DIAMETER            |
| 945.404         | TRIAL SHAFT 4.5 FOOT DIAMETER            |
| 945.405         | TRIAL SHAFT 5.0 FOOT DIAMETER            |
| 945.406         | TRIAL SHAFT 5.5 FOOT DIAMETER            |
| 945.407         | TRIAL SHAFT 6.0 FOOT DIAMETER            |
| 945.408         | TRIAL SHAFT 6.5 FOOT DIAMETER            |
| 945.409         | TRIAL SHAFT 7.0 FOOT DIAMETER            |
| 945.41          | TRIAL SHAFT 7.5 FOOT DIAMETER            |
| 945.411         | TRIAL SHAFT 8.0 FOOT DIAMETER            |
| 945.412         | TRIAL SHAFT 8.5 FOOT DIAMETER            |
| 945.413         | TRIAL SHAFT 9.0 FOOT DIAMETER            |
| 945.501         | DRILLED SHAFT 3.0 FOOT DIAMETER          |
| 945.502         | DRILLED SHAFT 3.5 FOOT DIAMETER          |
| 945.503         | DRILLED SHAFT 4.0 FOOT DIAMETER          |
| 945.504         | DRILLED SHAFT 4.5 FOOT DIAMETER          |
| 945.505         | DRILLED SHAFT 5.0 FOOT DIAMETER          |
| 945.506         | DRILLED SHAFT 5.5 FOOT DIAMETER          |
| 945.507         | DRILLED SHAFT 6.0 FOOT DIAMETER          |
| 945.508         | DRILLED SHAFT 6.5 FOOT DIAMETER          |
| 945.509         | DRILLED SHAFT 7.0 FOOT DIAMETER          |
| 945.51          | DRILLED SHAFT 7.5 FOOT DIAMETER          |
| 945.511         | DRILLED SHAFT 8.0 FOOT DIAMETER          |
| 945.512         | DRILLED SHAFT 8.5 FOOT DIAMETER          |
| 945.513         | DRILLED SHAFT 9.0 FOOT DIAMETER          |
| 945.551         | 10 INCH DIAMETER MICROPILE               |
| 945.552         | DRILLED MICROPILE LOAD TEST              |
| 945.601         | PERMANENT CASING 3.0 FOOT DIAMETER       |
| 945.602         | PERMANENT CASING 3.5 FOOT DIAMETER       |
| 945.603         | PERMANENT CASING 4.0 FOOT DIAMETER       |
| 945.604         | PERMANENT CASING 4.5 FOOT DIAMETER       |
| 945.605         | PERMANENT CASING 5.0 FOOT DIAMETER       |
| 945.606         | PERMANENT CASING 5.5 FOOT DIAMETER       |

| Cost Account ID | Cost Account Name                            |
|-----------------|--|
| 945.607         | PERMANENT CASING 6.0 FOOT DIAMETER           |
| 945.608         | PERMANENT CASING 6.5 FOOT DIAMETER           |
| 945.609         | PERMANENT CASING 7.0 FOOT DIAMETER           |
| 945.61          | PERMANENT CASING 7.5 FOOT DIAMETER           |
| 945.611         | PERMANENT CASING 8.0 FOOT DIAMETER           |
| 945.612         | PERMANENT CASING 8.5 FOOT DIAMETER           |
| 945.613         | PERMANENT CASING 9.0 FOOT DIAMETER           |
| 945.71          | CROSS HOLE SONIC TESTING ACCESS PIPES        |
| 945.72          | CROSS HOLE SONIC TEST                        |
| 945.81          | OSTERBERG LOAD CELL AXIAL LOAD TEST          |
| 945.82          | CONVENTIONAL AXIAL LOAD TEST                 |
| 945.9           | MICRO PILES                                  |
| 945.91          | MICRO PILES - TEST PILE                      |
| 946.12          | PRECAST-PRESTRESSED CONCRETE PILE - 12 INCH  |
| 946.14          | PRECAST-PRESTRESSED CONCRETE PILE - 14 INCH  |
| 946.16          | PRECAST-PRESTRESSED CONCRETE PILE - 16 INCH  |
| 946.18          | PRECAST-PRESTRESSED CONCRETE PILE - 18 INCH  |
| 946.2           | PRECAST-PRESTRESSED CONCRETE PILE - 20 INCH  |
| 947             | TEST PILE                                    |
| 947.1           | TIMBER TEST PILE                             |
| 948.1           | SHORT DURATION LOAD TEST                     |
| 948.2           | MAINTAINED LOAD TEST                         |
| 948.3           | QUICK LOAD TEST                              |
| 948.31          | STATIC - CYCLIC (EXPRESS) LOAD TEST          |
| 948.4           | DYNAMIC LOAD TEST PREPARATION                |
| 948.41          | DYNAMIC LOAD TEST BY CONTRACTOR              |
| 948.5           | PILE SHOES                                   |
| 950             | LUMBER SHEETING                              |
| 950.1           | TEMPORARY SHORING                            |
| 950.31          | TEMPORARY EARTH SUPPORT SYSTEM               |
| 950.32          | TEMP. EARTH SUPPORT SYS. BRIDGE B-03-10      |
| 950.33          | TEMP. EARTH SUPPORT SYS. BRIDGE B-03-037     |
| 950.34          | TEMP. EARTH SUPPORT SYS. BRIDGE B-03-008     |
| 950.35          | TEMP. EARTH SUPPORT SYS. BRIDGE C-11-033     |
| 950.4           | TEMPORARY STEEL SHEATHING                    |
| 950.5           | TEMPORARY EARTH SUPPORT SYSTEM - SOUTHWICK   |
| 951             | WOOD SHEETING                                |
| 952             | STEEL SHEETING                               |
| 953.1           | TEMPORARY STEEL SHEATHING                    |
| 954             | SUPPORT OF EXCAVATION                        |
| 955             | TREATED TIMBER                               |
| 960             | STRUCTURAL STEEL                             |
| 960.1           | STRUCTURAL STEEL - COATED STEEL              |
| 960.11          | STRUCTURAL STEEL - UNCOATED                  |
| 960.12          | STRUCTURAL STEEL - M270 GRADE 70HPS & 50 HPS |
| 960.362         | STEEL M270 GRADE 36 PAINTED-MISCELLANEOUS    |
| 961.1           | CLEAN AND PAINT                              |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 961.101         | CLEAN AND PAINT (OVERCOAT) STEEL BRIDGE NO. _____                  |
| 961.102         | CLEAN AND PAINT (OVERCOAT) STEEL BRIDGE NO. _____-1                |
| 961.103         | CLEAN AND PAINT (OVERCOAT) STEEL BRIDGE NO. _____-2                |
| 961.104         | CLEAN AND PAINT (OVERCOAT) STEEL BRIDGE NO. _____-3                |
| 961.105         | CLEAN AND PAINT (OVERCOAT) STEEL BRIDGE NO. _____-4                |
| 961.201         | CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. _____              |
| 961.202         | CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. _____-1            |
| 961.203         | CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. _____              |
| 961.204         | CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. _____-2            |
| 961.205         | CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. _____              |
| 961.301         | PREPARATION OF FLAME OR THERMAL CUT EDGES BRIDGE NO. _____         |
| 961.302         | PREPARATION OF FLAME OR THERMAL CUT EDGES BRIDGE NO. _____ OVER RR |
| 964             | LINSEED ANTI-SPALLING COMPOUND                                     |
| 964.1           | EPOXY BONDING COMPOUND   |
| 964.2           | EPOXY PROTECTIVE COATING   |
| 964.21          | CONCRETE PROTECTIVE COATING  |
| 964.213         | EPOXY BONDING UNDER PRESSURE                                       |
| 964.7           | EPOXY MORTAR FOR PATCHING  |
| 964.71          | CEMENTITIOUS MORTAR FOR PATCHING-1                                 |
| 964.8           | EPOXY MORTAR FOR PATCHING-1  |
| 965             | MEMBRANE WATERPROOFING FOR BRIDGE DECKS                            |
| 965.1           | MEMBRANE WATERPROOFING (RUBBERIZED ASPHALT)                        |
| 965.2           | MEMBRANE WATERPROOFING FOR BRIDGE DECKS - SPRAY APPLIED            |
| 965.3           | MEMBRANE WATER PROOFING (SPRAY APPLIED) FOR EXISTING DECKS         |
| 966             | WATERPROOFING PROTECTIVE COURSE                                    |
| 967             | MEMBRANE WATERPROOFING   |
| 968             | SCUPPER  |
| 968.1           | SCUPPER AND DOWNSPOUT  |
| 968.4           | SCUPPER-REMOVED  |
| 970             | BITUMINOUS DAMP-PROOFING   |
| 971             | ASPHALTIC BRIDGE JOINT SYSTEM                                      |
| 971.1           | ASPHALTIC BRIDGE JOINT SYSTEM-1                                    |
| 972             | STRIP SEAL BRIDGE JOINT SYSTEM                                     |
| 974.1           | METAL BRIDGE RAILING REMOVED AND RESET                             |
| 974.2           | METAL BRIDGE RAILING REMOVED AND STACKED                           |
| 974.3           | METAL BRIDGE RAILING REMOVED                                       |
| 974.31          | METAL BRIDGE RAILING REMOVED-2                                     |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 975.1           | METAL BRIDGE RAILING (3 RAIL), STEEL (TYPE S3-TL4)          |
| 975.2           | METAL BRIDGE RAILING (3 RAIL), ALUMINUM (TYPE AL-3)         |
| 975.3           | PROTECTIVE SCREEN TYPE I                                    |
| 975.4           | PROTECTIVE SCREEN TYPE II                                   |
| 975.5           | ALUMINUM HANDRAIL   |
| 980.04          | REPOINT MASONRY WALL  |
| 982             | MARINE HARDWARE   |
| 982.2           | FENDER LOG  |
| 982.3           | ALUMINUM GANGWAY  |
| 982.4           | TIMBER GANGWAY  |
| 983             | DUMPED RIPRAP   |
| 983.01          | DUMPED RIPRAP-3   |
| 983.02          | MODIFIED DUMPED RIPRAP                                      |
| 983.03          | PLACED RIPRAP   |
| 983.1           | RIPRAP  |
| 983.11          | MODIFIED RIPRAP   |
| 983.2           | RIPRAP-1  |
| 983.21          | RIPRAP (MORTARED)   |
| 983.22          | BOULDER DEFLECTORS  |
| 983.3           | RIPRAP REMOVED AND RELAID                                   |
| 983.31          | SUPPLEMENTAL RIP RAP  |
| 983.33          | ROOT WADS   |
| 983.4           | ROCK FILL   |
| 983.41          | ROCK FILL-1   |
| 983.5           | MODIFIED ROCK FILL  |
| 983.51          | MODIFIED ROCK FILL-1  |
| 983.52          | MODIFIED ROCK FILL-2  |
| 984             | STONE + STONE CHIPS FOR WW REVETS,BRKWTR,MDS,GRS, + JTY     |
| 984.6           | STONE FOR EROSION CONTROL                                   |
| 984.601         | DUMPED STONE FOR EROSION CONTROL                            |
| 984.61          | STONE FOR EROSION CONTROL-1                                 |
| 984.62          | STONE FOR EROSION CONTROL-2                                 |
| 985             | SLOPE PAVING  |
| 985.01          | SLOPE PAVING REMOVED AND RESET                              |
| 986             | MODIFIED ROCKFILL   |
| 987             | SPECIAL SLOPE PAVING UNDER BRIDGE - OPTION                  |
| 987.02          | SPECIAL SLOPE PAVING UNDER BRIDGE REMOVED AND RESET         |
| 987.1           | SPECIAL SLOPE PAVING UNDER BRIDGE - QUARRY STONE            |
| 987.12          | SPECIAL SLOPE PAVING UNDER BRIDGE - QUARRY STONE GROUTED    |
| 987.2           | SPECIAL SLOPE PAVING UNDER BRIDGE - PRECAST CONCRETE BLOCKS |
| 987.3           | SPECIAL SLOPE PAVING UNDER BRIDGE - CEMENT CONCRETE         |
| 987.4           | SPECIAL UNDERWATER GROUT REPAIR                             |
| 988             | CHANNEL PAVING  |

| Cost Account ID | Cost Account Name  |
|-----------------|--|
| 988.1           | GROUTED CHANNEL PAVING                                   |
| 988.2           | MODIFIED CHANNEL PAVING                                  |
| 989.2           | REPAIRS TO CONCRETE                                      |
| 989.21          | REPAIRS TO CONCRETE STAIRS                               |
| 989.22          | REPAIRS TO STRUCTURE CONCRETE MASONRY                    |
| 989.32          | CONCRETE CRACK REPAIR                                    |
| 990.1           | COFFERDAM STRUCTURE NO. _____                            |
| 990.2           | COFFERDAM STRUCTURE NO. _____-1                          |
| 991.01          | CONTROL OF WATER - STRUCTURE NO. A-06-003                |
| 991.1           | CONTROL OF WATER - STRUCTURE NO. _____                   |
| 991.2           | CONTROL OF WATER - STRUCTURE NO. _____-1                 |
| 991.3           | CONTROL OF WATER - STRUCTURE NO. B-03-037                |
| 991.4           | CONTROL OF WATER - STRUCTURE NO. B-03-008                |
| 991.5           | CONTROL OF WATER - STRUCTURE NO. C-11-033                |
| 991.99          | BLDNG CONDITION SURVEY & VIBRTN MNITRNG - NON BLAST      |
| 992.1           | ALTERATION TO BRIDGE STRUCTURE NO. _____                 |
| 992.2           | ALTERATION TO BRIDGE STRUCTURE NO. _____-1               |
| 992.3           | TEMPORARY SUPPORTS FOR BRIDGE STRUCTURE                  |
| 992.301         | TEMPORARY SUPPORTS FOR BRIDGE STRUCTURE B-03-011         |
| 992.302         | TEMPORARY SUPPORTS FOR BRIDGE STRUCTURE B-03-010         |
| 992.304         | TEMPORARY SUPPORTS FOR BRIDGE STRUCTURE B-03-008         |
| 992.31          | TEMPORARY SUPPORTS FOR WATER PIPE                        |
| 992.32          | TEMPORARY SUPPORTS FOR PIPING                            |
| 992.33          | TEMPORARY SUPPORTS FOR UTILITIES                         |
| 992.99          | TEMPORARY UTILITY SUPPORT BRIDGE                         |
| 993.1           | TEMPORARY BRIDGE NO. _____                               |
| 993.101         | TEMPORARY PEDESTRIAN BRIDGE                              |
| 993.11          | TEMPORARY BRIDGE NO. _____ REMOVED AND STACKED           |
| 993.31          | TEMPORARY PEDESTRIAN BRIDGE-1                            |
| 994             | INSTALL/REMOVE PROTECTIVE SHIELDING                      |
| 994.01          | TEMPORARY PROTECTIVE SHIELDING BRIDGE NO. _____          |
| 994.011         | TEMP. PROTECTIVE SHIELDING BR. _____ OUTSIDE FASCIA BEAM |
| 994.012         | TEMP. PROT.SHIELD.BETWEEN FASCIA BEAMS BR. _____         |
| 994.02          | TEMPORARY PROTECTIVE SHIELDING BRIDGE NO. _____          |
| 994.03          | TEMPORARY PROTECTIVE SHIELDING BRIDGE B-03-037           |
| 994.04          | TEMPORARY PROTECTIVE SHIELDING BRIDGE B-03-008           |
| 994.05          | TEMPORARY PROTECTIVE SHIELDING BRIDGE C-11-033           |
| 994.1           | TEMPORARY PROTECTIVE SHIELDING                           |
| 994.11          | TEMPORARY PROTECTIVE SHIELDING-3831                      |
| 994.2           | INSTALL PROTECTIVE SHIELDING                             |

| Cost Account ID | Cost Account Name   |
|-----------------|---|
| 994.3           | REMOVE PROTECTIVE SHIELDING                                 |
| 995             | BRIDGE SUPERSTRUCTURE, BRIDGE NO. _____                     |
| 995.01          | BRIDGE STRUCTURE, BRIDGE NO. _____                          |
| 995.011         | CULVERT STRUCTURE, CULVERT NO. _____                        |
| 995.012         | INSTUMENTATION FOR BRIDGE                                   |
| 995.02          | BRIDGE STRUCTURE, BRIDGE NO. _____                          |
| 995.021         | CULVERT STRUCTURE, CULVERT NO. _____                        |
| 995.03          | BRIDGE STRUCTURE, BRIDGE NO. _____-1                        |
| 995.04          | BRIDGE STRUCTURE, BRIDGE NO. B-03-008                       |
| 995.05          | BRIDGE STRUCTURE, BRIDGE NO. C-11-033                       |
| 995.11          | REMOVE AND DISPOSE WATER MAIN TIMBER SHIELDING & INSULATION |
| 996.01          | WALL STRUCTURE, WALL NO. _____                              |
| 996.02          | WALL STRUCTURE, WALL NO. _____-1                            |
| 996.1           | NOISE BARRIER STRUCTURE                                     |
| 996.11          | NOISE BARRIER FOUNDATION                                    |

| Cost Account ID | Cost Account Name                               |
|-----------------|---|
| 996.2           | WEEP HOLE FOR NOISE BARRIER STRUCTURE           |
| 996.3           | MODULAR RETAINING WALL SYSTEM                   |
| 996.31          | MECHANICALLY STABILIZED EARTH WALL              |
| 996.32          | MECHANICALLY STABILIZED EARTH WALL-1            |
| 996.33          | PROOF TEST EXISTING TIEBACKS                    |
| 996.4           | PREFABRICATED MODULAR BLOCK WALL                |
| 996.401         | GRS-IBS ABUTMENTS AND WINDGWALLS                |
| 997.01          | BRIDGE INSTRUMENTATION                          |
| 997.02          | LIVE LOAD TEST                                  |
| 997.1           | FIBER REINFORCED POLYMER (FRP) COMPOSITE SYSTEM |
| 997.21          | PERMANENT SOIL NAILS                            |
| 997.22          | VERIFICATION TEST NAILS                         |
| 997.23          | SHOTCRETE FACING                                |
| 999.801         | EWO#1 - EMERGENCY STORM WORK REPAIR WORK        |

**ATTACHMENT F: SAMPLE PROJECTED SPENDING REPORT (PSR)**

[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Nov-20    | 1-Dec-20     | 1-Jan-21     | 1-Feb-21     | 1-Mar-21     | 1-Apr-21     | 1-May-21       | 1-Jun-21       | 1-Jul-21       | 1-Aug-21       | 1-Sep-21       | 1-Oct-21       | 1-Nov-21       |
|-------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Monthly Projection            | \$25,545.07 | \$77,720.00  | \$13,260.00  | \$16,053.33  | \$289,487.09 | \$484,190.10 | \$1,018,978.45 | \$554,038.58   | \$2,713,558.27 | \$546,680.12   | \$852,261.41   | \$925,347.18   | \$747,810.12   |
| Cumulative Monthly Projection | \$25,545.07 | \$103,265.07 | \$116,525.07 | \$132,578.40 | \$422,065.49 | \$906,255.59 | \$1,925,234.04 | \$2,479,272.62 | \$5,192,830.89 | \$5,739,511.01 | \$6,591,772.42 | \$7,517,119.60 | \$8,264,929.72 |
| Monthly Total as % of Bid     | 0.13%       | 0.40%        | 0.07%        | 0.08%        | 1.47%        | 2.46%        | 5.18%          | 2.82%          | 13.80%         | 2.78%          | 4.33%          | 4.70%          | 3.80%          |
| Cumulative Total as % of Bid  | 0.13%       | 0.53%        | 0.59%        | 0.67%        | 2.15%        | 4.61%        | 9.79%          | 12.61%         | 26.40%         | 29.18%         | 33.52%         | 38.22%         | 42.02%         |

| Activity Name  | Budgeted Cost   | Actual Cost | Spreadsheet Field    | 1-Nov-20    | 1-Dec-20    | 1-Jan-21    | 1-Feb-21    | 1-Mar-21     | 1-Apr-21     | 1-May-21       | 1-Jun-21     | 1-Jul-21       | 1-Aug-21     | 1-Sep-21     | 1-Oct-21     | 1-Nov-21     |
|--|-----------------|-------------|----------------------|-------------|-------------|-------------|-------------|--------------|--------------|----------------|--------------|----------------|--------------|--------------|--------------|--------------|
| Total  | \$19,667,628.00 | \$0.00      | Remaining Early Cost | \$25,545.07 | \$77,720.00 | \$13,260.00 | \$16,053.33 | \$289,487.09 | \$484,190.10 | \$1,018,978.45 | \$554,038.58 | \$2,713,558.27 | \$546,680.12 | \$852,261.41 | \$925,347.18 | \$747,810.12 |
| [Contract No] 100.0 SCHEDULE OF OPERATIONS FIXED PRICE (\$95,000)      | \$95,000.00     | \$0.00      | Remaining Early Cost | \$1,963.10  |             |             | \$15,833.33 | \$4,989.54   | \$2,944.65   | \$2,804.43     | \$3,084.87   | \$2,944.65     | \$3,084.87   | \$2,944.65   | \$2,804.43   | \$2,664.21   |
| [Contract No] 101.0 CLEARING AND GRUBBING                              | \$50,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             | \$25,000.00  | \$25,000.00  |                |              |                |              |              |              |              |
| [Contract No] 102.1 TREE TRIMMING                                      | \$7,000.00      | \$0.00      | Remaining Early Cost |             |             |             |             | \$3,500.00   | \$3,500.00   |                |              |                |              |              |              |              |
| [Contract No] 102.3 CONTROL OF INVASIVE PLANTS                         | \$5,600.00      | \$0.00      | Remaining Early Cost |             |             |             |             | \$5,600.00   |              |                |              |                |              |              |              |              |
| [Contract No] 102.33 INVASIVE PLANT MANAGEMENT STRATEGY                | \$1,500.00      | \$0.00      | Remaining Early Cost |             |             |             |             | \$1,500.00   |              |                |              |                |              |              |              |              |
| [Contract No] 102.511 TREE PROTECTION ARMORING AND PRUNING             | \$3,600.00      | \$0.00      | Remaining Early Cost |             |             |             |             | \$3,600.00   |              |                |              |                |              |              |              |              |
| [Contract No] 102.521 TEMPORARY TREE PROTECTION FENCE                  | \$5,075.00      | \$0.00      | Remaining Early Cost |             |             |             |             | \$5,075.00   |              |                |              |                |              |              |              |              |
| [Contract No] 103.0 TREE REMOVED - DIAMETER UNDER 24 INCHES            | \$14,400.00     | \$0.00      | Remaining Early Cost |             |             |             |             | \$7,200.00   | \$7,200.00   |                |              |                |              |              |              |              |
| [Contract No] 104.0 TREE REMOVED - DIAMETER OVER 24 INCHES             | \$12,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             | \$6,000.00   | \$6,000.00   |                |              |                |              |              |              |              |
| [Contract No] 105.0 STUMP REMOVED                                      | \$2,250.00      | \$0.00      | Remaining Early Cost |             |             |             |             | \$1,125.00   | \$1,125.00   |                |              |                |              |              |              |              |
| [Contract No] 120.0 EARTH EXCAVATION                                   | \$687,500.00    | \$0.00      | Remaining Early Cost |             |             |             |             | \$34,500.00  | \$89,000.00  | \$65,166.67    | \$84,333.33  | \$38,923.08    | \$67,230.77  | \$46,482.52  | \$50,181.82  |              |
| [Contract No] 121.0 CLASS A ROCK EXCAVATION                            | \$69,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$1,380.00   | \$7,820.00     | \$10,120.00  | \$4,670.77     | \$8,067.69   | \$5,577.90   | \$6,021.82   |              |
| [Contract No] 123.0 MUCK EXCAVATION                                    | \$20,350.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$3,404.00     | \$3,404.00   | \$10,212.00    |              |              |              |              |
| [Contract No] 140.0 BRIDGE EXCAVATION                                  | \$67,200.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$11,400.00    | \$11,400.00  | \$33,000.00    |              |              |              |              |
| [Contract No] 141.0 CLASS A TRENCH EXCAVATION                          | \$9,340.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$3,502.50   | \$5,837.50     |              |                |              |              |              |              |
| [Contract No] 141.1 TEST PIT FOR EXPLORATION                           | \$9,000.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$9,000.00   |                |              |                |              |              |              |              |
| [Contract No] 142.0 CLASS B TRENCH EXCAVATION                          | \$1,250.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$470.00     | \$780.00       |              |                |              |              |              |              |
| [Contract No] 144.0 CLASS B ROCK EXCAVATION                            | \$112,500.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$42,000.00  | \$70,500.00    |              |                |              |              |              |              |
| [Contract No] 146.0 DRAINAGE STRUCTURE REMOVED                         | \$39,900.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$1,900.00   | \$2,850.00     | \$3,800.00   | \$2,265.38     | \$4,019.23   | \$3,474.48   | \$4,145.45   |              |
| [Contract No] 150.1 SPECIAL BORROW                                     | \$20,480.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$5,120.00   | \$8,533.33     | \$6,826.67   |                |              |              |              |              |
| [Contract No] 151.0 GRAVEL BORROW                                      | \$363,000.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$15,070.00  | \$30,470.00    | \$45,210.00  | \$25,833.08    | \$44,033.85  | \$30,913.08  | \$32,880.00  |              |
| [Contract No] 151.1 GRAVEL BORROW FOR BRIDGE FOUNDATION                | \$19,500.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$600.00       | \$4,500.00   | \$13,500.00    |              |              |              |              |
| [Contract No] 151.2 GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES | \$239,700.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$9,964.00   | \$19,928.00    | \$29,892.00  | \$16,862.15    | \$29,125.54  | \$20,137.03  | \$21,739.64  |              |
| [Contract No] 154.0 SAND BORROW  | \$750.00        | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                | \$300.00     | \$300.00       |              |              |              |              |
| [Contract No] 156.0 CRUSHED STONE                                      | \$82,250.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              | \$3,431.00   | \$6,862.00     | \$10,293.00  | \$5,806.31     | \$10,029.08  | \$6,933.98   | \$7,485.82   |              |
| [Contract No] 156.1 CRUSHED STONE for BRIDGE FOUNDATIONS               | \$5,800.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              | \$1,160.00     | \$3,480.00   |              |              |              |
| [Contract No] 170.0 FINE GRADING AND COMPACTING - SUBGRADE             | \$113,400.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 180.01 HEALTH AND SAFETY PLAN                            | \$25,000.00     | \$0.00      | Remaining Early Cost |             | \$21,666.67 | \$3,333.33  |             |              |              |                |              |                |              |              |              | \$4,536.00   |
| [Contract No] 180.02 PERSONNEL PROTECTION LEVEL C                      | \$700.00        | \$0.00      | Remaining Early Cost | \$18.08     |             |             |             | \$16.79      | \$27.12      | \$25.83        | \$28.41      | \$27.12        | \$28.41      | \$27.12      | \$25.83      | \$24.54      |
| [Contract No] 180.03 LICENSED SITE PROFESSIONAL                        | \$44,000.00     | \$0.00      | Remaining Early Cost |             | \$38,133.33 | \$5,866.67  |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 181.11 DISPOSAL OF UNREGULATED SOIL                      | \$2,350.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 181.12 DISPOSAL OF REGULATED SOIL IN STATE               | \$6,800.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 181.13 DISPOSAL OF UNREGULATED SOIL OUT OF STATE         | \$19,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 181.14 DISPOSAL OF HAZARDOUS WASTE                       | \$8,260.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 182.21 ASBESTOS REMOVAL PERMITS                          | \$7,500.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 182.22 ASBESTOS REMOVAL PERMITS                          | \$54,075.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 183.1 TREATMENT OF CONTAMINATED GROUND WATER             | \$27,500.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                | \$9,350.00   | \$8,800.00   |              |              |
| [Contract No] 183.2 DISPOSAL OF GRANULAR ACTIVATED CARBON              | \$2,500.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 184.1 DISPOSAL OF TREATED WOOD PRODUCTS                  | \$1,375.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 201.3 SPECIAL CATCH BASIN                                | \$590,000.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$25,000.00    | \$50,000.00  | \$75,000.00    | \$42,307.69  | \$73,076.92  | \$50,524.48  | \$54,545.45  |
| [Contract No] 202.0 MANHOLE  | \$451,000.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$22,000.00    | \$44,000.00  | \$49,500.00    | \$33,423.08  | \$57,115.39  | \$38,961.54  | \$43,500.00  |
| [Contract No] 202.11 SPECIAL MANHOLE (10 FT x 8 FT)                    | \$40,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 202.2 MANHOLE (9 TO 14 FOOT DEPTH)                       | \$34,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                | \$8,500.00   | \$8,500.00     | \$5,884.61   | \$2,615.39   |              |              |
| [Contract No] 202.5 MANHOLE 5 FOOT DIAM.                               | \$60,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$6,000.00     | \$6,000.00   | \$6,000.00     |              |              | \$3,818.18   | \$8,181.82   |
| [Contract No] 202.6 MANHOLE 6 FOOT DIAM.                               | \$48,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                | \$8,000.00   | \$8,000.00     |              |              |              | \$6,545.46   |
| [Contract No] 202.8 MANHOLE 8 FOOT DIAM.                               | \$52,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$13,000.00    |              | \$13,000.00    | \$8,000.00   | \$18,000.00  |              |              |
| [Contract No] 202.9 MANHOLE 8 FOOT DIAM.                               | \$85,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$5,000.00     | \$15,000.00  | \$5,000.00     | \$8,076.92   | \$10,104.90  | \$6,818.18   |              |
| [Contract No] 204.11 GUTTER INLET                                      | \$29,750.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$1,750.00     | \$3,500.00   | \$5,250.00     | \$1,750.00   | \$2,826.92   | \$2,423.08   | \$1,431.82   |
| [Contract No] 205.0 LEACHING BASIN                                     | \$66,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$22,000.00    | \$29,333.33  | \$14,666.67    |              |              |              |              |
| [Contract No] 209.1 DROP INLET, TYPE D                                 | \$9,800.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                | \$9,800.00   |                |              |              |              |              |
| [Contract No] 220.0 DRAINAGE STRUCTURE ADJUSTED                        | \$99,750.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 220.3 DRAINAGE STRUCTURE CHANGE IN TYPE                  | \$6,000.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              | \$1,000.00     | \$1,615.38   | \$384.62     |              |              |
| [Contract No] 220.5 DRAINAGE STRUCTURE REMODELED                       | \$4,500.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$1,500.00     |              | \$1,038.46     | \$461.54     |              |              |              |
| [Contract No] 220.7 SANITARY STRUCTURE ADJUSTED                        | \$13,825.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$395.00       | \$790.00     | \$1,975.00     | \$1,063.46   | \$1,792.69   | \$950.21     | \$1,185.00   |
| [Contract No] 220.8 SANITARY STRUCTURE REMODELED                       | \$14,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$1,750.00     | \$3,500.00   | \$1,750.00     | \$1,750.00   |              |              | \$1,750.00   |
| [Contract No] 221.0 FRAME AND COVER                                    | \$109,600.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$4,800.00     | \$8,800.00   | \$13,600.00    | \$7,323.08   | \$13,230.77  | \$9,700.70   | \$9,818.18   |
| [Contract No] 222.1 FRAME AND GRATE - MASSDOT CASCADE TYPE             | \$121,500.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$5,400.00     | \$9,000.00   | \$15,300.00    | \$9,138.46   | \$15,784.62  | \$10,340.56  | \$10,554.55  |
| [Contract No] 222.2 FRAME AND GRATE - MASSDOT DROP INLET               | \$1,700.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              | \$540.91     | \$309.09     |
| [Contract No] 223.2 FRAME AND GRATE (OR COVER) R&D                     | \$3,075.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$150.00       | \$225.00     | \$450.00       | \$253.85     | \$392.31     | \$199.30     | \$265.91     |
| [Contract No] 224.12 12 INCH HOOD                                      | \$87,750.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$3,900.00     | \$7,800.00   | \$11,050.00    | \$5,500.00   | \$10,800.00  | \$7,218.18   | \$7,622.73   |
| [Contract No] 227.3 REMOVAL OF DRAINAGE STRUCTURE SEDIMENT             | \$21,000.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 227.31 REMOVAL OF DRAINAGE PIPE SEDIMENT                 | \$4,860.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 232.4 43 X 27 INCH ACCM PIPE-ARCH 12 GAGE                | \$11,250.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 232.5 50 X 31 INCH ACCM PIPE-ARCH 12 GAGE                | \$11,275.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              |                |              |                |              |              |              |              |
| [Contract No] 238.12 12 INCH DUCTILE IRON PIPE                         | \$180,000.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$7,500.00     | \$15,000.00  | \$22,500.00    | \$12,692.31  | \$21,923.08  | \$15,157.34  | \$16,363.64  |
| [Contract No] 238.16 16 INCH DUCTILE IRON PIPE                         | \$2,280.00      | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$228.00       | \$385.85     | \$438.46       | \$460.78     | \$310.91     |              |              |
| [Contract No] 238.24 24 INCH DUCTILE IRON PIPE                         | \$29,900.00     | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$1,150.00     | \$2,530.00   | \$3,910.00     | \$2,176.15   | \$3,361.54   | \$2,324.13   | \$2,697.27   |
| [Contract No] 241.12 12 INCH REINFORCED CONCRETE PIPE                  | \$212,500.00    | \$0.00      | Remaining Early Cost |             |             |             |             |              |              | \$8,840.00     | \$17,680.00  | \$26,520.00    | \$14,960.00  | \$25,8       |              |              |

[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Dec-21       | 1-Jan-22       | 1-Feb-22       | 1-Mar-22       | 1-Apr-22       | 1-May-22        | 1-Jun-22        | 1-Jul-22        | 1-Aug-22        | 1-Sep-22        | 1-Oct-22        | 1-Nov-22        |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Monthly Projection            | \$0.00         | \$0.00         | \$0.00         | \$326,355.77   | \$996,201.62   | \$1,098,813.52  | \$1,084,327.58  | \$801,120.28    | \$752,876.56    | \$216,635.60    | \$337,052.75    | \$344,624.75    |
| Cumulative Monthly Projection | \$8,264,929.72 | \$8,264,929.72 | \$8,264,929.72 | \$8,591,285.49 | \$9,587,487.11 | \$10,686,300.63 | \$11,770,628.21 | \$12,571,748.49 | \$13,324,625.05 | \$13,541,260.65 | \$13,878,313.40 | \$14,222,938.15 |
| Monthly Total as % of Bid     | 0.00%          | 0.00%          | 0.00%          | 1.66%          | 5.07%          | 5.59%           | 5.51%           | 4.07%           | 3.83%           | 1.10%           | 1.71%           | 1.75%           |
| Cumulative Total as % of Bid  | 42.02%         | 42.02%         | 42.02%         | 43.68%         | 48.75%         | 54.33%          | 59.85%          | 63.92%          | 67.75%          | 68.85%          | 70.56%          | 72.32%          |

| Activity Name  | Budgeted Cost   | Actual Cost | Spreadsheet Field    | 1-Dec-21 | 1-Jan-22 | 1-Feb-22 | 1-Mar-22     | 1-Apr-22     | 1-May-22       | 1-Jun-22       | 1-Jul-22     | 1-Aug-22     | 1-Sep-22     | 1-Oct-22     | 1-Nov-22     |
|--|-----------------|-------------|----------------------|----------|----------|----------|--------------|--------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------|
| Total  | \$19,667,628.00 | \$0.00      | Remaining Early Cost |          |          |          | \$326,355.77 | \$996,201.62 | \$1,098,813.52 | \$1,084,327.58 | \$801,120.28 | \$752,876.56 | \$216,635.60 | \$337,052.75 | \$344,624.75 |
| [Contract No] 100.0 SCHEDULE OF OPERATIONS FIXED PRICE (\$95,000)      | \$95,000.00     | \$0.00      | Remaining Early Cost |          |          |          | \$1,822.88   | \$2,804.43   | \$2,944.65     | \$3,084.87     | \$2,804.43   | \$3,225.09   | \$2,944.65   | \$2,804.43   | \$2,664.21   |
| [Contract No] 101.0 CLEARING AND GRUBBING                              | \$50,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 102.1 TREE TRIMMING                                      | \$7,000.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 102.3 CONTROL OF INVASIVE PLANTS                         | \$5,600.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 102.33 INVASIVE PLANT MANAGEMENT STRATEGY                | \$1,500.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 102.511 TREE PROTECTION ARMORING AND PRUNING             | \$3,600.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 102.521 TEMPORARY TREE PROTECTION FENCE                  | \$5,075.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 103.0 TREE REMOVED - DIAMETER UNDER 24 INCHES            | \$14,400.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 104.0 TREE REMOVED - DIAMETER OVER 24 INCHES             | \$12,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 105.0 STUMP REMOVED                                      | \$2,250.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 120.0 EARTH EXCAVATION                                   | \$687,500.00    | \$0.00      | Remaining Early Cost |          |          |          | \$25,265.15  | \$57,500.00  | \$67,583.33    | \$42,166.67    | \$19,166.67  |              |              |              |              |
| [Contract No] 121.0 CLASS A ROCK EXCAVATION                            | \$69,000.00     | \$0.00      | Remaining Early Cost |          |          |          | \$3,031.82   | \$6,900.00   | \$8,050.00     | \$5,060.00     | \$2,300.00   |              |              |              |              |
| [Contract No] 123.0 MUCK EXCAVATION                                    | \$20,350.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                | \$3,330.00   |              |              |              |              |
| [Contract No] 140.0 BRIDGE EXCAVATION                                  | \$67,200.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                | \$11,400.00  |              |              |              |              |
| [Contract No] 141.0 CLASS A TRENCH EXCAVATION                          | \$9,340.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 141.1 TEST PIT FOR EXPLORATION                           | \$9,000.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 142.0 CLASS B TRENCH EXCAVATION                          | \$1,250.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 144.0 CLASS B ROCK EXCAVATION                            | \$112,500.00    | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 146.0 DRAINAGE STRUCTURE REMOVED                         | \$39,900.00     | \$0.00      | Remaining Early Cost |          |          |          | \$2,087.12   | \$4,750.00   | \$5,541.67     | \$3,483.33     | \$1,583.33   |              |              |              |              |
| [Contract No] 150.1 SPECIAL BORROW                                     | \$20,480.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 151.0 GRAVEL BORROW                                      | \$363,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$16,554.17  | \$37,675.00  | \$43,954.17    | \$27,665.00    | \$12,741.67  |              |              |              |              |
| [Contract No] 151.1 GRAVEL BORROW FOR BRIDGE FOUNDATION                | \$19,500.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                | \$900.00     |              |              |              |              |
| [Contract No] 151.2 GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES | \$239,700.00    | \$0.00      | Remaining Early Cost |          |          |          | \$10,945.30  | \$24,910.00  | \$29,453.33    | \$18,439.67    | \$8,303.33   |              |              |              |              |
| [Contract No] 154.0 SAND BORROW  | \$750.00        | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                | \$150.00     |              |              |              |              |
| [Contract No] 156.0 CRUSHED STONE                                      | \$82,250.00     | \$0.00      | Remaining Early Cost |          |          |          | \$3,768.90   | \$8,577.50   | \$9,913.08     | \$6,290.17     | \$2,859.17   |              |              |              |              |
| [Contract No] 156.1 CRUSHED STONE for BRIDGE FOUNDATIONS               | \$5,800.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                | \$1,160.00   |              |              |              |              |
| [Contract No] 170.0 FINE GRADING AND COMPACTING - SUBGRADE             | \$113,400.00    | \$0.00      | Remaining Early Cost |          |          |          | \$9,072.00   | \$13,608.00  | \$16,632.00    | \$6,048.00     | \$4,536.00   | \$9,072.00   | \$4,536.00   | \$8,164.80   | \$9,979.20   |
| [Contract No] 180.01 HEALTH AND SAFETY PLAN                            | \$25,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 180.02 PERSONNEL PROTECTION LEVEL C                      | \$700.00        | \$0.00      | Remaining Early Cost |          |          |          | \$16.79      | \$25.83      | \$27.12        | \$28.41        | \$25.83      | \$29.70      | \$27.12      | \$25.83      | \$24.54      |
| [Contract No] 180.03 LICENSED SITE PROFESSIONAL                        | \$44,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 181.11 DISPOSAL OF UNREGULATED SOIL                      | \$2,350.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 181.12 DISPOSAL OF REGULATED SOIL IN STATE               | \$6,800.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 181.13 DISPOSAL OF UNREGULATED SOIL OUT OF STATE         | \$19,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 181.14 DISPOSAL OF HAZARDOUS WASTE                       | \$8,260.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 182.21 ASBESTOS REMOVAL PERMITS                          | \$7,500.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 182.22 ASBESTOS REMOVAL PERMITS                          | \$54,075.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 183.1 TREATMENT OF CONTAMINATED GROUND WATER             | \$27,500.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                | \$9,350.00     |              |              |              |              |              |
| [Contract No] 183.2 DISPOSAL OF GRANULAR ACTIVATED CARBON              | \$2,500.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 184.1 DISPOSAL OF TREATED WOOD PRODUCTS                  | \$1,375.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 201.3 SPECIAL CATCH BASIN                                | \$590,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$27,462.12  | \$62,500.00  | \$62,916.67    | \$45,833.33    | \$20,833.33  |              |              |              |              |
| [Contract No] 202.0 MANHOLE  | \$451,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$18,125.00  | \$46,750.00  | \$49,958.33    | \$33,916.67    | \$13,750.00  |              |              |              |              |
| [Contract No] 202.11 SPECIAL MANHOLE (10 FT x 8 FT)                    | \$40,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              | \$16,666.67  | \$23,333.33    |                |              |              |              |              |              |
| [Contract No] 202.2 MANHOLE (9 TO 14 FOOT DEPTH)                       | \$34,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                | \$1,416.67     | \$7,083.33   |              |              |              |              |
| [Contract No] 202.5 MANHOLE 5 FOOT DIAM.                               | \$60,000.00     | \$0.00      | Remaining Early Cost |          |          |          | \$5,500.00   | \$12,500.00  | \$6,000.00     | \$1,000.00     | \$5,000.00   |              |              |              |              |
| [Contract No] 202.6 MANHOLE 6 FOOT DIAM.                               | \$48,000.00     | \$0.00      | Remaining Early Cost |          |          |          | \$1,454.54   | \$8,000.00   | \$10,666.67    | \$5,333.33     |              |              |              |              |              |
| [Contract No] 202.8 MANHOLE 8 FOOT DIAM.                               | \$52,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 202.9 MANHOLE 8 FOOT DIAM.                               | \$85,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              | \$7,083.33   | \$14,583.33    | \$9,166.67     | \$4,166.67   |              |              |              |              |
| [Contract No] 204.11 GUTTER INLET                                      | \$29,750.00     | \$0.00      | Remaining Early Cost |          |          |          | \$1,922.35   | \$3,645.83   | \$1,750.00     | \$2,041.67     | \$1,458.33   |              |              |              |              |
| [Contract No] 205.0 LEACHING BASIN                                     | \$66,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 209.1 DROP INLET, TYPE D                                 | \$9,800.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 220.0 DRAINAGE STRUCTURE ADJUSTED                        | \$99,750.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 220.3 DRAINAGE STRUCTURE CHANGE IN TYPE                  | \$6,000.00      | \$0.00      | Remaining Early Cost |          |          |          | \$916.67     | \$1,083.33   |                | \$1,000.00     |              |              |              |              |              |
| [Contract No] 220.5 DRAINAGE STRUCTURE REMODELED                       | \$4,500.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                | \$1,500.00     |              |              |              |              |              |
| [Contract No] 220.7 SANITARY STRUCTURE ADJUSTED                        | \$13,825.00     | \$0.00      | Remaining Early Cost |          |          |          | \$867.80     | \$1,185.00   | \$1,777.50     | \$1,185.00     | \$658.33     |              |              |              |              |
| [Contract No] 220.8 SANITARY STRUCTURE REMODELED                       | \$14,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              | \$2,479.17   | \$1,020.83     | \$1,750.00     |              |              |              |              |              |
| [Contract No] 221.0 FRAME AND COVER                                    | \$109,600.00    | \$0.00      | Remaining Early Cost |          |          |          | \$5,127.27   | \$11,200.00  | \$14,000.00    | \$8,000.00     | \$4,000.00   |              |              |              |              |
| [Contract No] 222.1 FRAME AND GRATE - MASSDOT CASCADE TYPE             | \$121,500.00    | \$0.00      | Remaining Early Cost |          |          |          | \$5,931.82   | \$13,125.00  | \$13,125.00    | \$9,300.00     | \$4,500.00   |              |              |              |              |
| [Contract No] 222.2 FRAME AND GRATE - MASSDOT DROP INLET               | \$1,700.00      | \$0.00      | Remaining Early Cost |          |          |          | \$779.17     | \$70.83      |                |                |              |              |              |              |              |
| [Contract No] 223.2 FRAME AND GRATE (OR COVER) R&D                     | \$3,075.00      | \$0.00      | Remaining Early Cost |          |          |          | \$151.14     | \$300.00     | \$287.50       | \$275.00       | \$125.00     |              |              |              |              |
| [Contract No] 224.12 12 INCH HOOD                                      | \$87,750.00     | \$0.00      | Remaining Early Cost |          |          |          | \$4,284.09   | \$9,100.00   | \$11,158.33    | \$6,608.33     | \$2,708.33   |              |              |              |              |
| [Contract No] 227.3 REMOVAL OF DRAINAGE STRUCTURE SEDIMENT             | \$21,000.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 227.31 REMOVAL OF DRAINAGE PIPE SEDIMENT                 | \$4,860.00      | \$0.00      | Remaining Early Cost |          |          |          |              |              |                |                |              |              |              |              |              |
| [Contract No] 232.4 43 X 27 INCH ACCM PIPE-ARCH 12 GAGE                | \$11,250.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                | \$1,875.00     | \$9,375.00   |              |              |              |              |
| [Contract No] 232.5 50 X 31 INCH ACCM PIPE-ARCH 12 GAGE                | \$11,275.00     | \$0.00      | Remaining Early Cost |          |          |          |              |              |                | \$1,879.17     | \$9,395.83   |              |              |              |              |
| [Contract No] 238.12 12 INCH DUCTILE IRON PIPE                         | \$180,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$8,238.64   | \$18,750.00  | \$21,875.00    | \$13,750.00    | \$6,250.00   |              |              |              |              |
| [Contract No] 238.16 16 INCH DUCTILE IRON PIPE                         | \$2,280.00      | \$0.00      | Remaining Early Cost |          |          |          | \$209.00     | \$247.00     |                |                |              |              |              |              |              |
| [Contract No] 238.24 24 INCH DUCTILE IRON PIPE                         | \$29,900.00     | \$0.00      | Remaining Early Cost |          |          |          | \$1,515.91   | \$3,220.00   | \$3,718.33     | \$2,146.67     | \$1,150.00   |              |              |              |              |
| [Contract No] 241.12 12 INCH REINFORCED CONCRETE PIPE                  | \$212,500.00    | \$0.00      | Remaining Early Cost |          |          |          | \$9,772.42   | \$22,100.00  | \$25,783.33    | \$16,206.67    | \$7,366.67   |              |              |              |              |
| [Contract No] 241.15 15 INCH REINFORCED CONCRETE PIPE                  | \$52,250.00     | \$0.00      | Remaining Early Cost |          |          |          | \$2,396.67   | \$5,454.17   | \$6,352.50     | \$3,813.33     | \$1,833.33   |              |              |              |              |
| [Contract No] 241.18 18 INCH REINFORCED CONCRETE PIPE                  | \$102,080.00    | \$0.00      | Remaining Early Cost |          |          |          | \$4,714.70   | \$10,730.00  | \$12,209.00    | \$7,714.00     | \$3,576.67   |              |              |              |              |
| [Contract No] 241.24 24 INCH REINFORCED CONCRETE PIPE                  | \$135,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$6,179.32   | \$13,905.00  | \$16,177.50    | \$10,215.00    | \$4,725.00   |              |              |              |              |
| [Contract No] 244.12 12 INCH REINFORCED CONCRETE PIPE CLASS V          | \$171,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$7,909.09   | \$17,550.00  | \$20,550.00    | \$13,200.00    | \$6,000.00   |              |              |              |              |
| [Contract No] 244.15 15 INCH REINFORCED CONCRETE PIPE CLASS V          | \$56,000.00     | \$0.00      | Remaining Early Cost |          |          |          | \$2,522.55   | \$5,833.33   | \$6,794.67     | \$4,312.00     | \$1,960.00   |              |              |              |              |
| [Contract No] 244.18 18 INCH REINFORCED CONCRETE PIPE CLASS V          | \$178,500.00    | \$0.00      | Remaining Early Cost |          |          |          | \$8,179.32   | \$18,615.00  | \$21,513.50    | \$13,651.00    | \$6,205.00   |              |              |              |              |
| [Contract No] 244.24 24 INCH REINFORCED CONCRETE PIPE CLASS V          | \$128,700.00    | \$0.00      |                      |          |          |          |              |              |                |                |              |              |              |              |              |



[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Nov-23        | 1-Dec-23        | 1-Jan-24        | 1-Feb-24        | 1-Mar-24        | 1-Apr-24        |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Monthly Projection            | \$412,760.66    | \$87,248.00     | \$21,812.00     | \$0.00          | \$0.00          | \$195,000.00    |
| Cumulative Monthly Projection | \$19,363,568.01 | \$19,450,816.01 | \$19,472,628.01 | \$19,472,628.01 | \$19,472,628.01 | \$19,667,628.01 |
| Monthly Total as % of Bid     | 2.10%           | 0.44%           | 0.11%           | 0.00%           | 0.00%           | 0.99%           |
| Cumulative Total as % of Bid  | 98.45%          | 98.90%          | 99.01%          | 99.01%          | 99.01%          | 100.00%         |

| Activity Name   | Budgeted Cost   | Actual Cost | Spreadsheet Field    | 1-Nov-23     | 1-Dec-23    | 1-Jan-24    | 1-Feb-24 | 1-Mar-24 | 1-Apr-24     |
|---|-----------------|-------------|----------------------|--------------|-------------|-------------|----------|----------|--------------|
| Total   | \$19,667,628.00 | \$0.00      | Remaining Early Cost | \$412,760.66 | \$87,248.00 | \$21,812.00 |          |          | \$195,000.00 |
| [Contract No] 100.0 SCHEDULE OF OPERATIONS FIXED PRICE (\$95,000)       | \$95,000.00     | \$0.00      | Remaining Early Cost | \$1,402.21   |             |             |          |          |              |
| [Contract No] 101.0 CLEARING AND GRUBBING                               | \$50,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 102.1 TREE TRIMMING                                       | \$7,000.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 102.3 CONTROL OF INVASIVE PLANTS                          | \$5,600.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 102.33 INVASIVE PLANT MANAGEMENT STRATEGY                 | \$1,500.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 102.511 TREE PROTECTION ARMORING AND PRUNING              | \$3,600.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 102.521 TEMPORARY TREE PROTECTION FENCE                   | \$5,075.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 103.0 TREE REMOVED - DIAMETER UNDER 24 INCHES             | \$14,400.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 104.0 TREE REMOVED - DIAMETER OVER 24 INCHES              | \$12,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 105.0 STUMP REMOVED                                       | \$2,250.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 120.0 EARTH EXCAVATION                                    | \$687,500.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 121.0 CLASS A ROCK EXCAVATION                             | \$69,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 123.0 MUCK EXCAVATION                                     | \$20,350.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 140.0 BRIDGE EXCAVATION                                   | \$67,200.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 141.0 CLASS A TRENCH EXCAVATION                           | \$9,340.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 141.1 TEST PIT FOR EXPLORATION                            | \$9,000.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 142.0 CLASS B TRENCH EXCAVATION                           | \$1,250.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 144.0 CLASS B ROCK EXCAVATION                             | \$112,500.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 146.0 DRAINAGE STRUCTURE REMOVED                          | \$39,900.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 150.1 SPECIAL BORROW                                      | \$20,480.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 151.0 GRAVEL BORROW                                       | \$363,000.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 151.1 GRAVEL BORROW FOR BRIDGE FOUNDATION                 | \$19,500.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 151.2 GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES  | \$239,700.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 154.0 SAND BORROW   | \$750.00        | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 156.0 CRUSHED STONE                                       | \$82,250.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 156.1 CRUSHED STONE for BRIDGE FOUNDATIONS                | \$5,800.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 170.0 FINE GRADING AND COMPACTING - SUBGRADE              | \$113,400.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 180.01 HEALTH AND SAFETY PLAN                             | \$25,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 180.02 PERSONNEL PROTECTION LEVEL C                       | \$700.00        | \$0.00      | Remaining Early Cost | \$12.92      |             |             |          |          |              |
| [Contract No] 180.03 LICENSED SITE PROFESSIONAL                         | \$44,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 181.11 DISPOSAL OF UNREGULATED SOIL                       | \$2,350.00      | \$0.00      | Remaining Early Cost |              | \$1,880.00  | \$470.00    |          |          |              |
| [Contract No] 181.12 DISPOSAL OF REGULATED SOIL IN STATE                | \$6,800.00      | \$0.00      | Remaining Early Cost |              | \$5,440.00  | \$1,360.00  |          |          |              |
| [Contract No] 181.13 DISPOSAL OF UNREGULATED SOIL OUT OF STATE          | \$19,000.00     | \$0.00      | Remaining Early Cost |              | \$15,200.00 | \$3,800.00  |          |          |              |
| [Contract No] 181.14 DISPOSAL OF HAZARDOUS WASTE                        | \$8,260.00      | \$0.00      | Remaining Early Cost |              | \$6,608.00  | \$1,652.00  |          |          |              |
| [Contract No] 182.21 ASBESTOS REMOVAL PERMITS                           | \$7,500.00      | \$0.00      | Remaining Early Cost |              | \$6,000.00  | \$1,500.00  |          |          |              |
| [Contract No] 182.22 ASBESTOS REMOVAL PERMITS                           | \$54,075.00     | \$0.00      | Remaining Early Cost |              | \$43,260.00 | \$10,815.00 |          |          |              |
| [Contract No] 183.1 TREATMENT OF CONTAMINATED GROUND WATER              | \$27,500.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 183.2 DISPOSAL OF GRANULAR ACTIVATED CARBON               | \$2,500.00      | \$0.00      | Remaining Early Cost |              | \$2,000.00  | \$500.00    |          |          |              |
| [Contract No] 184.1 DISPOSAL OF TREATED WOOD PRODUCTS                   | \$1,375.00      | \$0.00      | Remaining Early Cost |              | \$1,100.00  | \$275.00    |          |          |              |
| [Contract No] 201.3 SPECIAL CATCH BASIN                                 | \$590,000.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 202.0 MANHOLE   | \$451,000.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 202.11 SPECIAL MANHOLE (10 FT x 8 FT)                     | \$40,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 202.2 MANHOLE (9 TO 14 FOOT DEPTH)                        | \$34,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 202.5 MANHOLE 5 FOOT DIAM.                                | \$60,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 202.6 MANHOLE 6 FOOT DIAM.                                | \$48,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 202.8 MANHOLE 8 FOOT DIAM.                                | \$52,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 202.9 MANHOLE 8 FOOT DIAM.                                | \$85,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 204.11 GUTTER INLET                                       | \$29,750.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 205.0 LEACHING BASIN                                      | \$66,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 209.1 DROP INLET, TYPE D                                  | \$9,800.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 220.0 DRAINAGE STRUCTURE ADJUSTED                         | \$99,750.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 220.3 DRAINAGE STRUCTURE CHANGE IN TYPE                   | \$6,000.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 220.5 DRAINAGE STRUCTURE REMODELED                        | \$4,500.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 220.7 SANITARY STRUCTURE ADJUSTED                         | \$13,825.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 220.8 SANITARY STRUCTURE REMODELED                        | \$14,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 221.0 FRAME AND COVER                                     | \$109,600.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 222.1 FRAME AND GRATE - MASSDOT CASCADE TYPE              | \$121,500.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 222.2 FRAME AND GRATE - MASSDOT DROP INLET                | \$1,700.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 223.2 FRAME AND GRATE (OR COVER) R&D                      | \$3,075.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 224.12 12 INCH HOOD                                       | \$87,750.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 227.3 REMOVAL OF DRAINAGE STRUCTURE SEDIMENT              | \$21,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 227.31 REMOVAL OF DRAINAGE PIPE SEDIMENT                  | \$4,860.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 232.4 43 X 27 INCH ACCM PIPE-ARCH 12 GAGE                 | \$11,250.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 232.5 50 X 31 INCH ACCM PIPE-ARCH 12 GAGE                 | \$11,275.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 238.12 12 INCH DUCTILE IRON PIPE                          | \$180,000.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 238.16 16 INCH DUCTILE IRON PIPE                          | \$2,280.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 238.24 24 INCH DUCTILE IRON PIPE                          | \$29,900.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 241.12 12 INCH REINFORCED CONCRETE PIPE                   | \$212,500.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 241.15 15 INCH REINFORCED CONCRETE PIPE                   | \$52,250.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 241.18 18 INCH REINFORCED CONCRETE PIPE                   | \$102,080.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 241.24 24 INCH REINFORCED CONCRETE PIPE                   | \$135,000.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 244.12 12 INCH REINFORCED CONCRETE PIPE CLASS V           | \$171,000.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 244.15 15 INCH REINFORCED CONCRETE PIPE CLASS V           | \$56,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 244.18 18 INCH REINFORCED CONCRETE PIPE CLASS V           | \$178,500.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 244.24 24 INCH REINFORCED CONCRETE PIPE CLASS V           | \$128,700.00    | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 258.0 STONE FOR PIPE ENDS                                 | \$11,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 303.06 6 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)  | \$55,200.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 303.08 8 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)  | \$4,500.00      | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 303.12 12 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT) | \$77,700.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |
| [Contract No] 309.0 DUCTILE IRON FITTINGS FOR WATER PIPE                | \$26,000.00     | \$0.00      | Remaining Early Cost |              |             |             |          |          |              |







[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Nov-23        | 1-Dec-23        | 1-Jan-24        | 1-Feb-24        | 1-Mar-24        | 1-Apr-24        |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Monthly Projection            | \$412,760.66    | \$87,248.00     | \$21,812.00     | \$0.00          | \$0.00          | \$195,000.00    |
| Cumulative Monthly Projection | \$19,363,568.01 | \$19,450,816.01 | \$19,472,628.01 | \$19,472,628.01 | \$19,472,628.01 | \$19,667,628.01 |
| Monthly Total as % of Bid     | 2.10%           | 0.44%           | 0.11%           | 0.00%           | 0.00%           | 0.99%           |
| Cumulative Total as % of Bid  | 98.45%          | 98.90%          | 99.01%          | 99.01%          | 99.01%          | 100.00%         |

| Activity Name   | Budgeted Cost | Actual Cost | Spreadsheet Field    | 1-Nov-23     | 1-Dec-23   | 1-Jan-24   | 1-Feb-24 | 1-Mar-24 | 1-Apr-24     |
|---|---------------|-------------|----------------------|--------------|------------|------------|----------|----------|--------------|
| [Contract No] 347.075 3/4 INCH COPPER TUBING TYPE K                           | \$5,530.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 347.1 1 INCH COPPER TUBING TYPE K                               | \$5,600.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 347.125 1-1/4 INCH COPPER TUBING TYPE K                         | \$5,670.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 347.15 1-1/2 INCH COPPER TUBING TYPE K                          | \$5,810.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 347.2 2 INCH COPPER TUBING TYPE K                               | \$6,090.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 349.06 6 INCH GATE VALVE  | \$9,200.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 349.12 12 INCH GATE VALVE                                       | \$4,300.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 357.06 6 INCH GATE BOX  | \$9,350.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 358.0 GATE BOX ADJUSTED   | \$33,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 363.075 3/4 INCH CORPORATION COCK                               | \$275.00      | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 363.1 1 INCH CORPORATION COCK                                   | \$365.00      | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 363.125 1-1/4 INCH CORP COCK                                    | \$1,255.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 363.15 1-1/2 INCH CORP COCK                                     | \$830.00      | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 363.175 1-1/2 INCH CORP COCK                                    | \$1,365.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 363.2 2 INCH CORP COCK  | \$1,365.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 367.12 12 INCH CAST IRON PLUG                                   | \$3,000.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 371.06 6 INCH COUPLING  | \$24,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 371.08 8 INCH COUPLING  | \$3,750.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 371.12 12 INCH COUPLING   | \$10,500.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 373.0 WATER PIPE INSULATION BOARD                               | \$74,200.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 375.06 6 INCH INSERTION VALVE AND BOX                           | \$60,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 375.08 8 INCH INSERTION VALVE AND BOX                           | \$12,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 375.12 12 INCH INSERTION VALVE AND BOX                          | \$40,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 376.2 HYDRANT REMOVED AND RESET                                 | \$32,500.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 376.5 HYDRANT ADJUSTED  | \$1,500.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 381.0 SERVICE BOX   | \$5,850.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 381.3 SERVICE BOX ADJUSTED                                      | \$6,600.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 402.0 DENSE GRADED CRUSHED STONE FOR SUB-BASE                   | \$278,400.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 415.3 PAVEMENT MICRO MILLING                                    | \$16,055.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 440.0 CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL                 | \$58,500.00   | \$0.00      | Remaining Early Cost | \$1,079.34   |            |            |          |          |              |
| [Contract No] 443.0 WATER FOR ROADWAY DUST CONTROL                            | \$11,000.00   | \$0.00      | Remaining Early Cost | \$202.95     |            |            |          |          |              |
| [Contract No] 450.23 SUPERPAVE SURFACE COURSE - 12.5                          | \$448,140.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 450.32 SUPERPAVE INTERMEDIATE COURSE - 19.0                     | \$586,625.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 450.42 SUPERPAVE BASE COURSE - 37.5                             | \$880,000.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 451.0 HMA FOR PATCHING  | \$27,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 452.0 ASPHALT EMULSION FOR TACK COAT                            | \$48,750.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 453.0 HMA JOINT SEALANT   | \$3,850.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 472.0 HOT MIX ASPHALT PAVEMENT FOR MISCELLANEOUS WORK           | \$288,000.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 482.5 SAWCUTTING ASPHALT  | \$840.00      | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 506.0 GRANITE CURB TYPE VB - STRAIGHT                           | \$552,500.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 506.1 GRANITE CURB TYPE VB - CURVED                             | \$54,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 507.0 GRANITE CURB TYPE T100                                    | \$37,200.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 509.0 GRANITE TRANSITION CURB FOR WCR - STRAIGHT                | \$53,460.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 509.1 GRANITE TRANSITION CURB FOR WCR - CURVED                  | \$28,125.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 514.0 GRANITE CURB INLET - STRAIGHT                             | \$33,250.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 515.0 GRANITE CURB INLET - CURVED                               | \$8,500.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 531.0 TIMBER CURB   | \$2,160.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 580.0 CURB REMOVED AND RESET                                    | \$1,400.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 594.0 CURB REMOVED AND DISCARDED                                | \$28,800.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 620.12 GUARDRAIL - TL-2 SINGLE FACED                            | \$106,950.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 620.32 GUARDRAIL - TL-2 SINGLE FACED CURVED                     | \$9,450.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 627.1 STEEL W BEAM TERMINAL SECTION (SINGLE FACED)              | \$21,600.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 627.82 STEEL BEAM HIGHWAY GUARD TANGENT END TREATMENT - TL2     | \$24,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 627.92 STEEL BEAM HIGHWAY GUARD FLARED END TREATMENT - TL-2     | \$8,000.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 630.0 HIGHWAY GUARD REMOVED AND RESET                           | \$1,650.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 630.2 HIGHWAY GUARD REMOVED AND DISCARDED                       | \$16,500.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 655.3 WOOD RAIL FENCE   | \$26,250.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 669.0 FENCE REMOVED AND STACKED                                 | \$9,000.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 697.1 SILT SACK   | \$40,950.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 698.3 GEOTEXTILE FABRIC FOR SEPARATION                          | \$8,400.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 701.0 CEMENT CONCRETE SIDEWALK                                  | \$331,200.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 701.1 CEMENT CONCRETE SIDEWALK AT DRIVEWAYS                     | \$58,750.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 701.2 CEMENT CONCRETE WHEELCHAIR RAMP                           | \$75,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 701.31 STAMPED CEMENT CONCRETE PAVEMENT                         | \$78,625.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 702.0 HOT MIX ASPHALT WALK SURFACE                              | \$144,000.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 703.9 IMPRINT CROSSWALK SYSTEM                                  | \$382,500.00  | \$0.00      | Remaining Early Cost | \$382,500.00 |            |            |          |          |              |
| [Contract No] 704.2 GRAVEL FOR DRIVEWAYS                                      | \$1,350.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 705.1 FLAGSTONE WALK REMOVED AND RESET                          | \$500.00      | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 711.0 BOUND R&R   | \$3,250.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 712 BOUND R&S   | \$1,800.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 715 RURAL MAILBOX R&R   | \$7,200.00    | \$0.00      | Remaining Early Cost |              | \$5,760.00 | \$1,440.00 |          |          |              |
| [Contract No] 720 BOULDERS REMOVED AND RESET                                  | \$3,000.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 740.0 ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE A) (\$2500/MO) | \$83,600.00   | \$0.00      | Remaining Early Cost | \$1,501.85   |            |            |          |          |              |
| [Contract No] 748.0 MOBILIZATION  | \$585,000.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          | \$195,000.00 |
| [Contract No] 751.0 LOAM BORROW   | \$106,250.00  | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 751.2 PLANTING TRENCH SOIL                                      | \$15,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 751.7 COMPOST TOPSOIL   | \$5,610.00    | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 755.35 INLAND WETLAND REPLICATION AREA                          | \$50,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 755.75 WETLAND SPECIALIST                                       | \$14,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 755.76 WETLAND MONITORING                                       | \$10,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |
| [Contract No] 756.0 NPDES STORMWATER POLLUTION PREVENTION PLAN (\$50,000)     | \$20,000.00   | \$0.00      | Remaining Early Cost |              |            |            |          |          |              |

[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Nov-20    | 1-Dec-20     | 1-Jan-21     | 1-Feb-21     | 1-Mar-21     | 1-Apr-21     | 1-May-21       | 1-Jun-21       | 1-Jul-21       | 1-Aug-21       | 1-Sep-21       | 1-Oct-21       | 1-Nov-21       |
|-------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Monthly Projection            | \$25,545.07 | \$77,720.00  | \$13,260.00  | \$16,053.33  | \$289,487.09 | \$484,190.10 | \$1,018,978.45 | \$554,038.58   | \$2,713,558.27 | \$546,680.12   | \$852,261.41   | \$925,347.18   | \$747,810.12   |
| Cumulative Monthly Projection | \$25,545.07 | \$103,265.07 | \$116,525.07 | \$132,578.40 | \$422,065.49 | \$906,255.59 | \$1,925,234.04 | \$2,479,272.62 | \$5,192,830.89 | \$5,739,511.01 | \$6,591,772.42 | \$7,517,119.60 | \$8,264,929.72 |
| Monthly Total as % of Bid     | 0.13%       | 0.40%        | 0.07%        | 0.08%        | 1.47%        | 2.46%        | 5.18%          | 2.82%          | 13.80%         | 2.78%          | 4.33%          | 4.70%          | 3.80%          |
| Cumulative Total as % of Bid  | 0.13%       | 0.53%        | 0.59%        | 0.67%        | 2.15%        | 4.61%        | 9.79%          | 12.61%         | 26.40%         | 29.18%         | 33.52%         | 38.22%         | 42.02%         |

| Activity Name  | Budgeted Cost | Actual Cost | Spreadsheet Field    | 1-Nov-20   | 1-Dec-20 | 1-Jan-21 | 1-Feb-21 | 1-Mar-21   | 1-Apr-21    | 1-May-21    | 1-Jun-21    | 1-Jul-21    | 1-Aug-21    | 1-Sep-21    | 1-Oct-21    | 1-Nov-21    |
|--|---------------|-------------|----------------------|------------|----------|----------|----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| [Contract No] 765.0 SEEDING  | \$22,950.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 765.422 SEEDING - MID-HEIGHT UPLAND NATIVE MIX - FULL SUN              | \$1,496.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 767.121 SEDIMENT CONTROL BARRIER                                       | \$53,200.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            | \$53,200.00 |             |             |             |             |             |             |             |
| [Contract No] 767.6 AGED PINE BARK MULCH   | \$650.00      | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 767.77 COMPOSTED MULCH OVER MODIFIED ROCK                              | \$5,610.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 767.9 MATTING FOR EROSION CONTROL                                      | \$18,700.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 769.0 PAVEMENT MILLING MULCH UNDER GUARDRAIL                           | \$26,600.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 775.027 ELM - 'PRINCETON' 2-2.5 INCH CAL                               | \$2,900.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 775.035 HOPHORNBEAM - AMERICAN 2-2.5 INCH CALIPER                      | \$2,175.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 775.431 LOCUST - HONEY - 'SHADEMASTER' 2-2.5 INCH CALIPER              | \$6,500.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 776.523 MAPLE - RED - 'ARMSTRONG' 2-2.5 INCH CALIPER                   | \$3,250.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 776.529 MAPLE - RED - 'KARPICK' 2-2.5 INCH CAL                         | \$1,300.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 777.679 SWEETGUM-'HAPDELL' 2-2.5 INCH CAL                              | \$1,875.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 778.025 GINGKO-AUTUMN GOLD 2-2.5 INCH CAL                              | \$9,100.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 778.167 BIRCH - RIVER HERITAGE SINGLE STEM                             | \$1,275.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 778.409 CRABAPPLE-ADIRONDACK 2.5-3 INCH CAL                            | \$7,150.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 780.181 DOGWOOD-'CONSTELLATION' 1.5 INCH CAL                           | \$350.00      | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 782.423 PEAR - CALLERY 2-2.5 INCH CALIPER                              | \$4,635.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 785.587 HOLLY - JAPANESE - 'HETZ' 24-30 INCH                           | \$440.00      | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 786.031 JUNIPER - ANDORRA 18-24 INCH                                   | \$3,720.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 786.083 JUNIPER-'BAR HARBOR' 18-24 INCH SPREAD                         | \$936.00      | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 786.099 JUNIPER-'BLUE STAR' 12-18 INCH SPREAD                          | \$4,032.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 786.473 JUNIPER-'SEA GREEN' 24-30 INCH SPREAD                          | \$468.00      | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 794.337 SUMAC-FRAGRANT-'GRO-LOW' 18-24 INCH SPREAD                     | \$4,324.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 794.805 SWEETFERN 2 GALLON   | \$891.00      | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 796.433 FOUNTAIN GRASS-'KARLEY ROSE' 1 GALLON                          | \$2,604.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 796.457 SWITCH GRASS-HEAVY METAL' 1 GALLON                             | \$2,489.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 796.459 SWITCH GRASS-'SHENENDOAH' 1 GALLON                             | \$1,491.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 796.727 CATMINT-'WALKERS LOW' 1 GALLON                                 | \$4,080.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 796.753 DAYLILLY-'HAPPY RETURNS' 1 GALLON                              | \$1,008.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 796.757 DAYLILLY-'PURPLE RETURNS' 1 GALLON                             | \$1,710.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 796.761 DAYLILLY-'RED HOT RETURNS' 1 GALLON                            | \$1,197.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 804.3 3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC                      | \$456,750.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 811.27 ELECTRIC HANDHOLE - (MUNICIPAL STANDARD)                        | \$124,800.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 811.31 PULL BOX 12X12  | \$35,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 812.16 LIGHT FOUNDATION - CONCRETE                                     | \$123,000.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 812.17 DEEP LIGHT FOUNDATION - CONCRETE                                | \$34,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 812.20 LIGHTING LOAD CENTER FOUNDATION                                 | \$15,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 813.3 WIRE TYPE 7 NO 10 GENERAL PURPOSE                                | \$55,510.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 813.33 WIRE TYPE 7 NO 4 GENERAL PURPOSE                                | \$28,050.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 813.34 WIRE TYPE 7 NO 2 GENERAL PURPOSE                                | \$184,228.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 813.35 WIRE TYPE 7 NO 1 GENERAL PURPOSE                                | \$1,620.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 813.399 SPLICE EXTENSION FROM HANDHOLE TO LIGHTING FIXTURES            | \$59,400.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 813.81 SERVICE CONNECTION (UNDERGROUND)                                | \$35,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 815.1 TRAFFIC CONTROL SIGNAL LOCATION 01                               | \$275,000.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 815.2 TRAFFIC CONTROL SIGNAL LOCATION 02                               | \$225,000.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 815.3 TRAFFIC CONTROL SIGNAL LOCATION 03                               | \$200,000.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 816.80 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED                      | \$15,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 816.801 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED                     | \$15,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 821.5 LIGHT POLE ANDSINGLE PENDANTLUMINAIRE W/ 8'ARM AND BANNERARM     | \$585,750.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 821.51 LIGHT POLE ANDSINGLE PENDANTLUMINAIRE W/ 12'ARM AND BANNERARM   | \$115,050.00  | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 821.52 LIGHT POLE ARMAND SINGLEPENDANTLUMINAIRE W/ 4'ARM AND BANNERARM | \$88,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 821.53 LIGHT POLE ANDDOUBLE PENDANTLUMINAIRE ANDBANNER ARM             | \$42,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 823.61 HIGHWAY LIGHTING LOAD CENTER NO.1                               | \$30,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 823.62 HIGHWAY LIGHTING LOAD CENTER NO.2                               | \$30,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 824.211 RECTANGULAR RAPID FLASHING BEACON (AC POWERED)                 | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 824.221 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 1          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 824.222 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 2          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 824.223 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 3          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 824.224 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 4          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 824.225 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 5          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 824.226 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 6          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 824.227 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 7          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 832.0 WARNING-REGULATORY AND ROUTE MARKER - ALUM. PANEL (TYPE A)       | \$9,600.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 833.5 DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARD RAIL                | \$495.00      | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 833.7 DELINEATION FOR GUARD RAIL TERMINATION                           | \$1,155.00    | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 847.1 SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL      | \$13,390.00   | \$0.00      | Remaining Early Cost |            |          |          |          |            |             |             |             |             |             |             |             |             |
| [Contract No] 850.41 ROADWAY FLAGGER   | \$57,120.00   | \$0.00      | Remaining Early Cost | \$1,475.42 |          |          |          | \$1,370.04 | \$2,213.14  | \$2,107.75  | \$2,318.52  | \$2,213.14  | \$2,318.52  | \$2,213.14  | \$2,107.75  | \$2,002.36  |
| [Contract No] 851.1 TRAFFIC CONES FOR TRAFFIC MANAGEMENT                             | \$288,150.00  | \$0.00      | Remaining Early Cost | \$7,442.99 |          |          |          | \$6,911.35 | \$11,164.48 | \$10,632.84 | \$11,696.13 | \$11,164.48 | \$11,696.13 | \$11,164.48 | \$10,632.84 | \$10,101.20 |
| [Contract No] 852.0 SAFETY SIGNING FOR TRAFFIC MANAGEMENT                            | \$30,310.00   | \$0.00      | Remaining Early Cost | \$782.92   |          |          |          | \$726.99   | \$1,174.37  | \$1,118.45  | \$1,230.30  | \$1,174.37  | \$1,230.30  | \$1,174.37  | \$1,118.45  | \$1,062.53  |
| [Contract No] 852.11 TEMPORARY PEDESTRIAN BARRICADE                                  | \$22,500.00   | \$0.00      | Remaining Early Cost | \$581.18   |          |          |          | \$539.67   | \$871.77    | \$830.26    | \$913.28    | \$871.77    | \$913.28    | \$871.77    | \$830.26    | \$788.75    |
| [Contract No] 852.12 TEMPORARY PEDESTRIAN CURB RAMP                                  | \$32,000.00   | \$0.00      | Remaining Early Cost | \$826.57   |          |          |          | \$767.53   | \$1,239.85  | \$1,180.81  | \$1,298.89  | \$1,239.85  | \$1,298.89  | \$1,239.85  | \$1,180.81  | \$1,121.77  |
| [Contract No] 853.1 PORTABLE BREAKAWAY BARRICADE TYPE III                            | \$1,000.00    | \$0.00      | Remaining Early Cost | \$25.83    |          |          |          | \$23.99    | \$38.75     | \$36.90     | \$40.59     | \$38.75     | \$40.59     | \$38.75     | \$36.90     | \$35.06     |
| [Contract No] 853.2 TEMPORARY BARRIER (TL-2)   | \$72,000.00   | \$0.00      | Remaining Early Cost | \$1,859.78 |          |          |          | \$1,726.94 | \$2,789.67  | \$2,656.83  | \$2,922.51  | \$2,789.67  | \$2,922.51  | \$2,789.67  | \$2,656.83  | \$2,523.99  |
| [Contract No] 853.21 TEMPORARY BARRIER REMOVED AND RESET                             | \$19,800.00   | \$0.00      | Remaining Early Cost | \$511.44   |          |          |          | \$474.91   | \$767.16    | \$730.63    | \$803.69    | \$767.16    | \$803.69    | \$767.16    | \$730.63    | \$694.10    |
| [Contract No] 853.501 TEMPORARY IMPACT ATTENUATOR REMOVED AND RESET                  | \$11,000.00   | \$0.00      | Remaining Early Cost | \$284.13   |          |          |          | \$263.84   | \$426.20    | \$405.90    | \$446.49    | \$426.20    | \$446.49    | \$426.20    | \$405.90    | \$385.61    |
| [Contract No] 853.63 TEMPORARY IMPACT ATTENUATOR UNIDIRECTIONAL REDIRECTIVE TL3      | \$42,000.00   | \$0.00      | Remaining Early Cost | \$1,084.87 |          |          |          | \$1,007.38 | \$1,627.31  | \$1,549.81  | \$1,704.80  | \$1,627.31  | \$1,704.80  | \$1,627.31  | \$1,549.81  | \$1,472.32  |
| [Contract No] 853.80 TEMPORARY ILLUMINATION FOR WORK ZONE                            | \$68,000.00   | \$0.00      | Remaining Early Cost | \$1,756.46 |          |          |          | \$1,631.00 | \$2,634.69  | \$2,509.22  | \$2,760.15  | \$2,634.69  | \$2,760.15  | \$2,634.69  | \$2,509.22  | \$2,383.76  |
| [Contract No] 854.016 TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)                   | \$24,679.00   | \$0.00      | Remaining Early Cost | \$637.46   |          |          |          | \$591.93   | \$956.20    | \$910.66    | \$1,001.73  | \$956.20    | \$1,001.73  | \$956.20    | \$910.66    | \$865.13    |
| [Contract No] 854.1 PAVEMENT MARKING REMOVAL   | \$6,000.00    | \$0.00      | Remaining Early Cost | \$154.98   |          |          |          | \$143.91   | \$232.47    | \$221.40    | \$243.54    | \$232.47    | \$243.54    | \$232.47    | \$221.40    | \$210.33    |
| [Contract No] 856.0 ARROW BOARD  | \$12,800.00   | \$0.00      | Remaining Early Cost | \$330.63   |          |          |          | \$307.01   | \$495.94    | \$472.32    | \$519.56    | \$495.94    | \$519.56    | \$495.94    | \$472.32    | \$448.71    |

[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Dec-21       | 1-Jan-22       | 1-Feb-22       | 1-Mar-22       | 1-Apr-22       | 1-May-22        | 1-Jun-22        | 1-Jul-22        | 1-Aug-22        | 1-Sep-22        | 1-Oct-22        | 1-Nov-22        |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Monthly Projection            | \$0.00         | \$0.00         | \$0.00         | \$326,355.77   | \$996,201.62   | \$1,098,813.52  | \$1,084,327.58  | \$801,120.28    | \$752,876.56    | \$216,635.60    | \$337,052.75    | \$344,624.75    |
| Cumulative Monthly Projection | \$8,264,929.72 | \$8,264,929.72 | \$8,264,929.72 | \$8,591,285.49 | \$9,587,487.11 | \$10,686,300.63 | \$11,770,628.21 | \$12,571,748.49 | \$13,324,625.05 | \$13,541,260.65 | \$13,878,313.40 | \$14,222,938.15 |
| Monthly Total as % of Bid     | 0.00%          | 0.00%          | 0.00%          | 1.66%          | 5.07%          | 5.59%           | 5.51%           | 4.07%           | 3.83%           | 1.10%           | 1.71%           | 1.75%           |
| Cumulative Total as % of Bid  | 42.02%         | 42.02%         | 42.02%         | 43.68%         | 48.75%         | 54.33%          | 59.85%          | 63.92%          | 67.75%          | 68.85%          | 70.56%          | 72.32%          |

| Activity Name  | Budgeted Cost | Actual Cost | Spreadsheet Field    | 1-Dec-21 | 1-Jan-22 | 1-Feb-22 | 1-Mar-22    | 1-Apr-22    | 1-May-22     | 1-Jun-22    | 1-Jul-22     | 1-Aug-22    | 1-Sep-22    | 1-Oct-22    | 1-Nov-22    |
|--|---------------|-------------|----------------------|----------|----------|----------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|
| [Contract No] 765.0 SEEDING  | \$22,950.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 765.422 SEEDING - MID-HEIGHT UPLAND NATIVE MIX - FULL SUN              | \$1,496.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 767.121 SEDIMENT CONTROL BARRIER                                       | \$53,200.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 767.6 AGED PINE BARK MULCH   | \$650.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 767.77 COMPOSTED MULCH OVER MODIFIED ROCK                              | \$5,610.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             | \$2,802.00  |             |
| [Contract No] 767.9 MATTING FOR EROSION CONTROL                                      | \$18,700.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 769.0 PAVEMENT MILLING MULCH UNDER GUARDRAIL                           | \$26,600.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 775.027 ELM - 'PRINCETON' 2-2.5 INCH CAL                               | \$2,900.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 775.035 HOPHORNBEAM - AMERICAN 2-2.5 INCH CALIPER                      | \$2,175.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 775.431 LOCUST - HONEY - 'SHADEMASTER' 2-2.5 INCH CALIPER              | \$6,500.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 776.523 MAPLE - RED - 'ARMSTRONG' 2-2.5 INCH CALIPER                   | \$3,250.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 776.529 MAPLE - RED - 'KARPICK' 2-2.5 INCH CAL                         | \$1,300.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 777.679 SWEETGUM-'HAPDELL' 2-2.5 INCH CAL                              | \$1,875.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 778.025 GINGKO-AUTUMN GOLD 2-2.5 INCH CAL                              | \$9,100.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 778.167 BIRCH - RIVER HERITAGE SINGLE STEM                             | \$1,275.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 778.409 CRABAPPLE-ADIRONDACK 2.5-3 INCH CAL                            | \$7,150.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 780.181 DOGWOOD-'CONSTELLATION' 1.5 INCH CAL                           | \$350.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 782.423 PEAR - CALLERY 2-2.5 INCH CALIPER                              | \$4,635.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 785.587 HOLLY - JAPANESE - 'HETZ' 24-30 INCH                           | \$440.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 786.031 JUNIPER - ANDORRA 18-24 INCH                                   | \$3,720.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 786.083 JUNIPER-'BAR HARBOR' 18-24 INCH SPREAD                         | \$936.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 786.099 JUNIPER-'BLUE STAR' 12-18 INCH SPREAD                          | \$4,032.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 786.473 JUNIPER-'SEA GREEN' 24-30 INCH SPREAD                          | \$468.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 794.337 SUMAC-FRAGRANT-'GRO-LOW' 18-24 INCH SPREAD                     | \$4,324.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 794.805 SWEETFERN 2 GALLON   | \$891.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 796.433 FOUNTAIN GRASS-'KARLEY ROSE' 1 GALLON                          | \$2,604.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 796.457 SWITCH GRASS-HEAVY METAL' 1 GALLON                             | \$2,489.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 796.459 SWITCH GRASS-'SHENENDOAH' 1 GALLON                             | \$1,491.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 796.727 CATMINT-'WALKERS LOW' 1 GALLON                                 | \$4,080.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 796.753 DAYLILLY-'HAPPY RETURNS' 1 GALLON                              | \$1,008.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 796.757 DAYLILLY-'PURPLE RETURNS' 1 GALLON                             | \$1,710.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 796.761 DAYLILLY-'RED HOT RETURNS' 1 GALLON                            | \$1,197.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 804.3 3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC                      | \$456,750.00  | \$0.00      | Remaining Early Cost |          |          |          | \$44,100.00 | \$58,800.00 | \$44,100.00  | \$44,100.00 | \$14,700.00  | \$29,575.00 | \$29,400.00 | \$26,460.00 | \$47,215.00 |
| [Contract No] 811.27 ELECTRIC HANDHOLE - (MUNICIPAL STANDARD)                        | \$124,800.00  | \$0.00      | Remaining Early Cost |          |          |          | \$12,000.00 | \$14,400.00 | \$12,000.00  | \$12,000.00 | \$3,600.00   | \$8,400.00  | \$8,400.00  | \$7,440.00  | \$14,160.00 |
| [Contract No] 811.31 PULL BOX 12X12  | \$35,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$3,000.00  | \$4,000.00  | \$3,000.00   | \$3,000.00  | \$1,000.00   | \$3,000.00  | \$3,000.00  | \$2,600.00  | \$4,400.00  |
| [Contract No] 812.16 LIGHT FOUNDATION - CONCRETE                                     | \$123,000.00  | \$0.00      | Remaining Early Cost |          |          |          | \$6,000.00  | \$7,500.00  | \$6,000.00   | \$13,500.00 | \$6,000.00   | \$13,500.00 | \$6,000.00  | \$12,000.00 | \$13,500.00 |
| [Contract No] 812.17 DEEP LIGHT FOUNDATION - CONCRETE                                | \$34,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             | \$2,000.00  | \$2,000.00   | \$2,000.00  | \$2,000.00   | \$4,000.00  | \$2,000.00  | \$3,600.00  | \$4,400.00  |
| [Contract No] 812.20 LIGHTING LOAD CENTER FOUNDATION                                 | \$15,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 813.3 WIRE TYPE 7 NO 10 GENERAL PURPOSE                                | \$55,510.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 813.33 WIRE TYPE 7 NO 4 GENERAL PURPOSE                                | \$28,050.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 813.34 WIRE TYPE 7 NO 2 GENERAL PURPOSE                                | \$184,228.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 813.35 WIRE TYPE 7 NO 1 GENERAL PURPOSE                                | \$1,620.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 813.399 SPLICE EXTENSION FROM HANDHOLE TO LIGHTING FIXTURES            | \$59,400.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 813.81 SERVICE CONNECTION (UNDERGROUND)                                | \$35,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 815.1 TRAFFIC CONTROL SIGNAL LOCATION 01                               | \$275,000.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 815.2 TRAFFIC CONTROL SIGNAL LOCATION 02                               | \$225,000.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             | \$225,000.00 |             |              |             |             |             |             |
| [Contract No] 815.3 TRAFFIC CONTROL SIGNAL LOCATION 03                               | \$200,000.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             | \$200,000.00 |             |             |             |             |
| [Contract No] 816.80 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED                      | \$15,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 816.801 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED                     | \$15,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 821.5 LIGHT POLE ANDSINGLE PENDANTLUMINAIRE W/ 8'ARM AND BANNERARM     | \$585,750.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 821.51 LIGHT POLE ANDSINGLE PENDANTLUMINAIRE W/ 12'ARM AND BANNERARM   | \$115,050.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 821.52 LIGHT POLE ARMAND SINGLEPENDANTLUMINAIRE W/ 4'ARM AND BANNERARM | \$88,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 821.53 LIGHT POLE ANDDOUBLE PENDANTLUMINAIRE ANDBANNER ARM             | \$42,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 823.61 HIGHWAY LIGHTING LOAD CENTER NO.1                               | \$30,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 823.62 HIGHWAY LIGHTING LOAD CENTER NO.2                               | \$30,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 824.211 RECTANGULAR RAPID FLASHING BEACON (AC POWERED)                 | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              | \$3,500.00  | \$14,000.00  |             |             | \$4,000.00  |             |
| [Contract No] 824.221 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 1          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             | \$25,000.00  |             |             |             |             |
| [Contract No] 824.222 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 2          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             | \$25,000.00  |             |             |             |             |
| [Contract No] 824.223 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 3          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             | \$25,000.00  |             |             |             |             |
| [Contract No] 824.224 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 4          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             | \$25,000.00  |             |             |             |             |
| [Contract No] 824.225 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 5          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              | \$25,000.00 |              |             |             |             |             |
| [Contract No] 824.226 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 6          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 824.227 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 7          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             | \$25,000.00 |             |
| [Contract No] 832.0 WARNING-REGULATORY AND ROUTE MARKER - ALUM. PANEL (TYPE A)       | \$9,600.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 833.5 DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARD RAIL                | \$495.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 833.7 DELINEATION FOR GUARD RAIL TERMINATION                           | \$1,155.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 847.1 SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL      | \$13,390.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |              |             |              |             |             |             |             |
| [Contract No] 850.41 ROADWAY FLAGGER   | \$57,120.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,370.04  | \$2,107.75  | \$2,213.14   | \$2,318.52  | \$2,107.75   | \$2,423.91  | \$2,213.14  | \$2,107.75  | \$2,002.36  |
| [Contract No] 851.1 TRAFFIC CONES FOR TRAFFIC MANAGEMENT                             | \$288,150.00  | \$0.00      | Remaining Early Cost |          |          |          | \$6,911.35  | \$10,632.84 | \$11,164.48  | \$11,696.13 | \$10,632.84  | \$12,227.77 | \$11,164.48 | \$10,632.84 | \$10,101.20 |
| [Contract No] 852.0 SAFETY SIGNING FOR TRAFFIC MANAGEMENT                            | \$30,310.00   | \$0.00      | Remaining Early Cost |          |          |          | \$726.99    | \$1,118.45  | \$1,174.37   | \$1,230.30  | \$1,118.45   | \$1,286.22  | \$1,174.37  | \$1,118.45  | \$1,062.53  |
| [Contract No] 852.11 TEMPORARY PEDESTRIAN BARRICADE                                  | \$22,500.00   | \$0.00      | Remaining Early Cost |          |          |          | \$539.67    | \$830.26    | \$871.77     | \$913.28    | \$830.26     | \$954.80    | \$871.77    | \$830.26    | \$788.75    |
| [Contract No] 852.12 TEMPORARY PEDESTRIAN CURB RAMP                                  | \$32,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$767.53    | \$1,180.81  | \$1,239.85   | \$1,298.89  | \$1,180.81   | \$1,357.93  | \$1,239.85  | \$1,180.81  | \$1,121.77  |
| [Contract No] 853.1 PORTABLE BREAKAWAY BARRICADE TYPE III                            | \$1,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$23.99     | \$36.90     | \$38.75      | \$40.59     | \$36.90      | \$42.44     | \$38.75     | \$36.90     | \$35.06     |
| [Contract No] 853.2 TEMPORARY BARRIER (TL-2)   | \$72,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,726.94  | \$2,656.83  | \$2,789.67   | \$2,922.51  | \$2,656.83   | \$3,055.35  | \$2,789.67  | \$2,656.83  | \$2,523.99  |
| [Contract No] 853.21 TEMPORARY BARRIER REMOVED AND RESET                             | \$19,800.00   | \$0.00      | Remaining Early Cost |          |          |          | \$474.91    | \$730.63    | \$767.16     | \$803.69    | \$730.63     | \$840.22    | \$767.16    | \$730.63    | \$694.10    |
| [Contract No] 853.501 TEMPORARY IMPACT ATTENUATOR REMOVED AND RESET                  | \$11,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$263.84    | \$405.90    | \$426.20     | \$446.49    | \$405.90     | \$466.79    | \$426.20    | \$405.90    | \$385.61    |
| [Contract No] 853.63 TEMPORARY IMPACT ATTENUATOR UNIDIRECTIONAL REDIRECTIVE TL3      | \$42,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,007.38  | \$1,549.81  | \$1,627.31   | \$1,704.80  | \$1,549.81   | \$1,782.29  | \$1,627.31  | \$1,549.81  | \$1,472.32  |
| [Contract No] 853.80 TEMPORARY ILLUMINATION FOR WORK ZONE                            | \$68,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,631.00  | \$2,509.22  | \$2,634.69   | \$2,760.15  | \$2,509.22   | \$2,885.61  | \$2,634.69  | \$2,509.22  | \$2,383.76  |
| [Contract No] 854.016 TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)                   | \$24,679.00   | \$0.00      | Remaining Early Cost |          |          |          | \$591.93    | \$910.66    | \$956.20     | \$1,001.73  | \$910.66     | \$1,047.26  | \$956.20    | \$910.66    | \$865.13    |
| [Contract No] 854.1 PAVEMENT MARKING REMOVAL   | \$6,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$143.91    | \$221.40    | \$232.47     | \$243.54    | \$221.40     | \$254.61    | \$232.47    | \$221.40    | \$210.33    |
| [Contract No] 856.0 ARROW BOARD  | \$12,800.00   | \$0.00      | Remaining Early Cost |          |          |          | \$307.01    | \$472.32    | \$495.94     | \$519.56    | \$472.32     | \$543.17    | \$495.94    | \$472.32    | \$448.71    |

[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Dec-22        | 1-Jan-23        | 1-Feb-23        | 1-Mar-23        | 1-Apr-23        | 1-May-23        | 1-Jun-23        | 1-Jul-23        | 1-Aug-23        | 1-Sep-23        | 1-Oct-23        |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Monthly Projection            | \$0.00          | \$0.00          | \$0.00          | \$75,283.74     | \$609,081.11    | \$252,069.54    | \$223,431.58    | \$618,283.20    | \$508,224.97    | \$886,566.96    | \$1,554,928.10  |
| Cumulative Monthly Projection | \$14,222,938.15 | \$14,222,938.15 | \$14,222,938.15 | \$14,298,221.89 | \$14,907,303.00 | \$15,159,372.54 | \$15,382,804.12 | \$16,001,087.32 | \$16,509,312.29 | \$17,395,879.25 | \$18,950,807.35 |
| Monthly Total as % of Bid     | 0.00%           | 0.00%           | 0.00%           | 0.38%           | 3.10%           | 1.28%           | 1.14%           | 3.14%           | 2.58%           | 4.51%           | 7.91%           |
| Cumulative Total as % of Bid  | 72.32%          | 72.32%          | 72.32%          | 72.70%          | 75.80%          | 77.08%          | 78.21%          | 81.36%          | 83.94%          | 88.45%          | 96.36%          |

| Activity Name  | Budgeted Cost | Actual Cost | Spreadsheet Field    | 1-Dec-22 | 1-Jan-23 | 1-Feb-23 | 1-Mar-23    | 1-Apr-23    | 1-May-23    | 1-Jun-23     | 1-Jul-23    | 1-Aug-23    | 1-Sep-23     | 1-Oct-23     |
|--|---------------|-------------|----------------------|----------|----------|----------|-------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|
| [Contract No] 765.0 SEEDING  | \$22,950.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$5,737.50   | \$17,212.50  |
| [Contract No] 765.422 SEEDING - MID-HEIGHT UPLAND NATIVE MIX - FULL SUN              | \$1,496.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$374.00     | \$1,122.00   |
| [Contract No] 767.121 SEDIMENT CONTROL BARRIER                                       | \$53,200.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 767.6 AGED PINE BARK MULCH   | \$650.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$130.00     | \$520.00     |
| [Contract No] 767.77 COMPOSTED MULCH OVER MODIFIED ROCK                              | \$5,610.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             | \$2,808.00  |              |             |             |              |              |
| [Contract No] 767.9 MATTING FOR EROSION CONTROL                                      | \$18,700.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$4,675.00   | \$14,025.00  |
| [Contract No] 769.0 PAVEMENT MILLING MULCH UNDER GUARDRAIL                           | \$26,600.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$26,600.00  |              |
| [Contract No] 775.027 ELM - 'PRINCETON' 2-2.5 INCH CAL                               | \$2,900.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$580.00     | \$2,320.00   |
| [Contract No] 775.035 HOPHORNBEAM - AMERICAN 2-2.5 INCH CALIPER                      | \$2,175.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$435.00     | \$1,740.00   |
| [Contract No] 775.431 LOCUST - HONEY - 'SHADEMASTER' 2-2.5 INCH CALIPER              | \$6,500.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$1,300.00   | \$5,200.00   |
| [Contract No] 776.523 MAPLE - RED - 'ARMSTRONG' 2-2.5 INCH CALIPER                   | \$3,250.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$650.00     | \$2,600.00   |
| [Contract No] 776.529 MAPLE - RED - 'KARPICK' 2-2.5 INCH CAL                         | \$1,300.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$260.00     | \$1,040.00   |
| [Contract No] 777.679 SWEETGUM-'HAPDELL' 2-2.5 INCH CAL                              | \$1,875.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$375.00     | \$1,500.00   |
| [Contract No] 778.025 GINGKO-AUTUMN GOLD 2-2.5 INCH CAL                              | \$9,100.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$1,820.00   | \$7,280.00   |
| [Contract No] 778.167 BIRCH - RIVER HERITAGE SINGLE STEM                             | \$1,275.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$255.00     | \$1,020.00   |
| [Contract No] 778.409 CRABAPPLE-ADIRONDACK 2.5-3 INCH CAL                            | \$7,150.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$1,430.00   | \$5,720.00   |
| [Contract No] 780.181 DOGWOOD-'CONSTELLATION' 1.5 INCH CAL                           | \$350.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$70.00      | \$280.00     |
| [Contract No] 782.423 PEAR - CALLERY 2-2.5 INCH CALIPER                              | \$4,635.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$927.00     | \$3,708.00   |
| [Contract No] 785.587 HOLLY - JAPANESE - 'HETZ' 24-30 INCH                           | \$440.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$88.00      | \$352.00     |
| [Contract No] 786.031 JUNIPER - ANDORRA 18-24 INCH                                   | \$3,720.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$744.00     | \$2,976.00   |
| [Contract No] 786.083 JUNIPER-'BAR HARBOR' 18-24 INCH SPREAD                         | \$936.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$187.20     | \$748.80     |
| [Contract No] 786.099 JUNIPER-'BLUE STAR' 12-18 INCH SPREAD                          | \$4,032.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$806.40     | \$3,225.60   |
| [Contract No] 786.473 JUNIPER-'SEA GREEN' 24-30 INCH SPREAD                          | \$468.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$93.60      | \$374.40     |
| [Contract No] 794.337 SUMAC-FRAGRANT-'GRO-LOW' 18-24 INCH SPREAD                     | \$4,324.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$864.80     | \$3,459.20   |
| [Contract No] 794.805 SWEETFERN 2 GALLON   | \$891.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$178.20     | \$712.80     |
| [Contract No] 796.433 FOUNTAIN GRASS-'KARLEY ROSE' 1 GALLON                          | \$2,604.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$520.80     | \$2,083.20   |
| [Contract No] 796.457 SWITCH GRASS-HEAVY METAL' 1 GALLON                             | \$2,489.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$497.80     | \$1,991.20   |
| [Contract No] 796.459 SWITCH GRASS-'SHENENDOAH' 1 GALLON                             | \$1,491.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$298.20     | \$1,192.80   |
| [Contract No] 796.727 CATMINT-'WALKERS LOW' 1 GALLON                                 | \$4,080.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$816.00     | \$3,264.00   |
| [Contract No] 796.753 DAYLILLY-'HAPPY RETURNS' 1 GALLON                              | \$1,008.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$201.60     | \$806.40     |
| [Contract No] 796.757 DAYLILLY-'PURPLE RETURNS' 1 GALLON                             | \$1,710.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$342.00     | \$1,368.00   |
| [Contract No] 796.761 DAYLILLY-'RED HOT RETURNS' 1 GALLON                            | \$1,197.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$239.40     | \$957.60     |
| [Contract No] 804.3 3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC                      | \$456,750.00  | \$0.00      | Remaining Early Cost |          |          |          | \$14,700.00 | \$29,575.00 | \$14,875.00 | \$23,625.00  | \$20,825.00 | \$14,700.00 |              |              |
| [Contract No] 811.27 ELECTRIC HANDHOLE - (MUNICIPAL STANDARD)                        | \$124,800.00  | \$0.00      | Remaining Early Cost |          |          |          | \$4,800.00  | \$8,400.00  | \$3,600.00  | \$6,480.00   | \$5,520.00  | \$3,600.00  |              |              |
| [Contract No] 811.31 PULL BOX 12X12  | \$35,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,000.00  | \$2,000.00  | \$1,000.00  | \$1,600.00   | \$1,400.00  | \$1,000.00  |              |              |
| [Contract No] 812.16 LIGHT FOUNDATION - CONCRETE                                     | \$123,000.00  | \$0.00      | Remaining Early Cost |          |          |          |             | \$13,500.00 |             | \$10,500.00  | \$9,000.00  | \$6,000.00  |              |              |
| [Contract No] 812.17 DEEP LIGHT FOUNDATION - CONCRETE                                | \$34,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             | \$4,000.00  |             | \$3,200.00   | \$2,800.00  | \$2,000.00  |              |              |
| [Contract No] 812.20 LIGHTING LOAD CENTER FOUNDATION                                 | \$15,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$15,000.00  |              |
| [Contract No] 813.3 WIRE TYPE 7 NO 10 GENERAL PURPOSE                                | \$55,510.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              | \$55,510.00  |
| [Contract No] 813.33 WIRE TYPE 7 NO 4 GENERAL PURPOSE                                | \$28,050.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              | \$28,050.00  |
| [Contract No] 813.34 WIRE TYPE 7 NO 2 GENERAL PURPOSE                                | \$184,228.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              | \$184,228.00 |
| [Contract No] 813.35 WIRE TYPE 7 NO 1 GENERAL PURPOSE                                | \$1,620.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              | \$1,620.00   |
| [Contract No] 813.399 SPLICE EXTENSION FROM HANDHOLE TO LIGHTING FIXTURES            | \$59,400.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              | \$59,400.00  |
| [Contract No] 813.81 SERVICE CONNECTION (UNDERGROUND)                                | \$35,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              | \$35,000.00  |
| [Contract No] 815.1 TRAFFIC CONTROL SIGNAL LOCATION 01                               | \$275,000.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |             | \$275,000.00 |             |             |              |              |
| [Contract No] 815.2 TRAFFIC CONTROL SIGNAL LOCATION 02                               | \$225,000.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 815.3 TRAFFIC CONTROL SIGNAL LOCATION 03                               | \$200,000.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 816.80 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED                      | \$15,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             | \$15,000.00  |             |             |              |              |
| [Contract No] 816.801 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED                     | \$15,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             | \$15,000.00  |             |             |              |              |
| [Contract No] 821.5 LIGHT POLE ANDSINGLE PENDANTLUMINAIRE W/ 8'ARM AND BANNERARM     | \$585,750.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$410,025.00 | \$175,725.00 |
| [Contract No] 821.51 LIGHT POLE ANDSINGLE PENDANTLUMINAIRE W/ 12'ARM AND BANNERARM   | \$115,050.00  | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$80,535.00  | \$34,515.00  |
| [Contract No] 821.52 LIGHT POLE ARMAND SINGLEPENDANTLUMINAIRE W/ 4'ARM AND BANNERARM | \$88,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$61,600.00  | \$26,400.00  |
| [Contract No] 821.53 LIGHT POLE ANDDOUBLE PENDANTLUMINAIRE ANDBANNER ARM             | \$42,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$29,400.00  | \$12,600.00  |
| [Contract No] 823.61 HIGHWAY LIGHTING LOAD CENTER NO.1                               | \$30,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$30,000.00  |              |
| [Contract No] 823.62 HIGHWAY LIGHTING LOAD CENTER NO.2                               | \$30,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$30,000.00  |              |
| [Contract No] 824.211 RECTANGULAR RAPID FLASHING BEACON (AC POWERED)                 | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             | \$3,500.00  |             |              |             |             |              |              |
| [Contract No] 824.221 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 1          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 824.222 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 2          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 824.223 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 3          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 824.224 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 4          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 824.225 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 5          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 824.226 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 6          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             | \$25,000.00 |             |              |             |             |              |              |
| [Contract No] 824.227 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 7          | \$25,000.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             |              |              |
| [Contract No] 832.0 WARNING-REGULATORY AND ROUTE MARKER - ALUM. PANEL (TYPE A)       | \$9,600.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$6,400.00   | \$3,200.00   |
| [Contract No] 833.5 DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARD RAIL                | \$495.00      | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             | \$388.93    | \$106.07     |              |
| [Contract No] 833.7 DELINEATION FOR GUARD RAIL TERMINATION                           | \$1,155.00    | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              | \$907.50    | \$247.50    |              |              |
| [Contract No] 847.1 SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL      | \$13,390.00   | \$0.00      | Remaining Early Cost |          |          |          |             |             |             |              |             |             | \$8,926.67   | \$4,463.33   |
| [Contract No] 850.41 ROADWAY FLAGGER   | \$57,120.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,370.04  | \$2,002.36  | \$2,318.52  | \$2,318.52   | \$2,107.75  | \$2,423.91  | \$2,107.75   | \$2,213.14   |
| [Contract No] 851.1 TRAFFIC CONES FOR TRAFFIC MANAGEMENT                             | \$288,150.00  | \$0.00      | Remaining Early Cost |          |          |          | \$6,911.35  | \$10,101.20 | \$11,696.13 | \$11,696.13  | \$10,632.84 | \$12,227.77 | \$10,632.84  | \$11,164.48  |
| [Contract No] 852.0 SAFETY SIGNING FOR TRAFFIC MANAGEMENT                            | \$30,310.00   | \$0.00      | Remaining Early Cost |          |          |          | \$726.99    | \$1,062.53  | \$1,230.30  | \$1,230.30   | \$1,118.45  | \$1,286.22  | \$1,118.45   | \$1,174.37   |
| [Contract No] 852.11 TEMPORARY PEDESTRIAN BARRICADE                                  | \$22,500.00   | \$0.00      | Remaining Early Cost |          |          |          | \$539.67    | \$788.75    | \$913.28    | \$913.28     | \$830.26    | \$954.80    | \$830.26     | \$871.77     |
| [Contract No] 852.12 TEMPORARY PEDESTRIAN CURB RAMP                                  | \$32,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$767.53    | \$1,121.77  | \$1,298.89  | \$1,298.89   | \$1,180.81  | \$1,357.93  | \$1,180.81   | \$1,239.85   |
| [Contract No] 853.1 PORTABLE BREAKAWAY BARRICADE TYPE III                            | \$1,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$23.99     | \$35.06     | \$40.59     | \$40.59      | \$36.90     | \$42.44     | \$36.90      | \$38.75      |
| [Contract No] 853.2 TEMPORARY BARRIER (TL-2)   | \$72,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,726.94  | \$2,523.99  | \$2,922.51  | \$2,922.51   | \$2,656.83  | \$3,055.35  | \$2,656.83   | \$2,789.67   |
| [Contract No] 853.21 TEMPORARY BARRIER REMOVED AND RESET                             | \$19,800.00   | \$0.00      | Remaining Early Cost |          |          |          | \$474.91    | \$694.10    | \$803.69    | \$803.69     | \$730.63    | \$840.22    | \$730.63     | \$767.16     |
| [Contract No] 853.501 TEMPORARY IMPACT ATTENUATOR REMOVED AND RESET                  | \$11,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$263.84    | \$385.61    | \$446.49    | \$446.49     | \$405.90    | \$466.79    | \$405.90     | \$426.20     |
| [Contract No] 853.63 TEMPORARY IMPACT ATTENUATOR UNIDIRECTIONAL REDIRECTIVE TL3      | \$42,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,007.38  | \$1,472.32  | \$1,704.80  | \$1,704.80   | \$1,549.81  | \$1,782.29  | \$1,549.81   | \$1,627.31   |
| [Contract No] 853.80 TEMPORARY ILLUMINATION FOR WORK ZONE                            | \$68,000.00   | \$0.00      | Remaining Early Cost |          |          |          | \$1,631.00  | \$2,383.76  | \$2,760.15  | \$2,760.15   | \$2,509.22  | \$2,885.61  | \$2,509.22   | \$2,634.69   |
| [Contract No] 854.016 TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)                   | \$24,679.00   | \$0.00      | Remaining Early Cost |          |          |          | \$591.93    | \$865.13    | \$1,001.73  | \$1,001.73   | \$910.66    | \$1,047.26  | \$910.66     | \$956.20     |
| [Contract No] 854.1 PAVEMENT MARKING REMOVAL   | \$6,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$143.91    | \$210.33    | \$243.54    | \$243.54     | \$221.40    | \$254.61    | \$221.40     | \$232.47     |
| [Contract No] 856.0 ARROW BOARD  | \$12,800.00   | \$0.00      | Remaining Early Cost |          |          |          | \$307.01    | \$448.71    | \$519.56    | \$519.56     | \$472.32    | \$543.17    | \$472.32     | \$495.94     |

[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Nov-23        | 1-Dec-23        | 1-Jan-24        | 1-Feb-24        | 1-Mar-24        | 1-Apr-24        |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Monthly Projection            | \$412,760.66    | \$87,248.00     | \$21,812.00     | \$0.00          | \$0.00          | \$195,000.00    |
| Cumulative Monthly Projection | \$19,363,568.01 | \$19,450,816.01 | \$19,472,628.01 | \$19,472,628.01 | \$19,472,628.01 | \$19,667,628.01 |
| Monthly Total as % of Bid     | 2.10%           | 0.44%           | 0.11%           | 0.00%           | 0.00%           | 0.99%           |
| Cumulative Total as % of Bid  | 98.45%          | 98.90%          | 99.01%          | 99.01%          | 99.01%          | 100.00%         |

| Activity Name  | Budgeted Cost | Actual Cost | Spreadsheet Field    | 1-Nov-23   | 1-Dec-23 | 1-Jan-24 | 1-Feb-24 | 1-Mar-24 | 1-Apr-24 |
|--|---------------|-------------|----------------------|------------|----------|----------|----------|----------|----------|
| [Contract No] 765.0 SEEDING  | \$22,950.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 765.422 SEEDING - MID-HEIGHT UPLAND NATIVE MIX - FULL SUN              | \$1,496.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 767.121 SEDIMENT CONTROL BARRIER                                       | \$53,200.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 767.6 AGED PINE BARK MULCH   | \$650.00      | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 767.77 COMPOSTED MULCH OVER MODIFIED ROCK                              | \$5,610.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 767.9 MATTING FOR EROSION CONTROL                                      | \$18,700.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 769.0 PAVEMENT MILLING MULCH UNDER GUARDRAIL                           | \$26,600.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 775.027 ELM - 'PRINCETON' 2-2.5 INCH CAL                               | \$2,900.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 775.035 HOPHORNBEAM - AMERICAN 2-2.5 INCH CALIPER                      | \$2,175.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 775.431 LOCUST - HONEY - 'SHADEMASTER' 2-2.5 INCH CALIPER              | \$6,500.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 776.523 MAPLE - RED - 'ARMSTRONG' 2-2.5 INCH CALIPER                   | \$3,250.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 776.529 MAPLE - RED - 'KARPICK' 2-2.5 INCH CAL                         | \$1,300.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 777.679 SWEETGUM-'HAPDELL' 2-2.5 INCH CAL                              | \$1,875.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 778.025 GINGKO-AUTUMN GOLD 2-2.5 INCH CAL                              | \$9,100.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 778.167 BIRCH - RIVER HERITAGE SINGLE STEM                             | \$1,275.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 778.409 CRABAPPLE-ADIRONDACK 2.5-3 INCH CAL                            | \$7,150.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 780.181 DOGWOOD-'CONSTELLATION' 1.5 INCH CAL                           | \$350.00      | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 782.423 PEAR - CALLERY 2-2.5 INCH CALIPER                              | \$4,635.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 785.587 HOLLY - JAPANESE - 'HETZ' 24-30 INCH                           | \$440.00      | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 786.031 JUNIPER - ANDORRA 18-24 INCH                                   | \$3,720.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 786.083 JUNIPER-'BAR HARBOR' 18-24 INCH SPREAD                         | \$936.00      | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 786.099 JUNIPER-'BLUE STAR' 12-18 INCH SPREAD                          | \$4,032.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 786.473 JUNIPER-'SEA GREEN' 24-30 INCH SPREAD                          | \$468.00      | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 794.337 SUMAC-FRAGRANT-'GRO-LOW' 18-24 INCH SPREAD                     | \$4,324.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 794.805 SWEETFERN 2 GALLON   | \$891.00      | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 796.433 FOUNTAIN GRASS-'KARLEY ROSE' 1 GALLON                          | \$2,604.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 796.457 SWITCH GRASS-HEAVY METAL' 1 GALLON                             | \$2,489.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 796.459 SWITCH GRASS-'SHENENDOAH' 1 GALLON                             | \$1,491.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 796.727 CATMINT-'WALKERS LOW' 1 GALLON                                 | \$4,080.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 796.753 DAYLILLY-'HAPPY RETURNS' 1 GALLON                              | \$1,008.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 796.757 DAYLILLY-'PURPLE RETURNS' 1 GALLON                             | \$1,710.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 796.761 DAYLILLY-'RED HOT RETURNS' 1 GALLON                            | \$1,197.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 804.3 3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC                      | \$456,750.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 811.27 ELECTRIC HANDHOLE - (MUNICIPAL STANDARD)                        | \$124,800.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 811.31 PULL BOX 12X12  | \$35,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 812.16 LIGHT FOUNDATION - CONCRETE                                     | \$123,000.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 812.17 DEEP LIGHT FOUNDATION - CONCRETE                                | \$34,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 812.20 LIGHTING LOAD CENTER FOUNDATION                                 | \$15,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 813.3 WIRE TYPE 7 NO 10 GENERAL PURPOSE                                | \$55,510.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 813.33 WIRE TYPE 7 NO 4 GENERAL PURPOSE                                | \$28,050.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 813.34 WIRE TYPE 7 NO 2 GENERAL PURPOSE                                | \$184,228.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 813.35 WIRE TYPE 7 NO 1 GENERAL PURPOSE                                | \$1,620.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 813.399 SPLICE EXTENSION FROM HANDHOLE TO LIGHTING FIXTURES            | \$59,400.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 813.81 SERVICE CONNECTION (UNDERGROUND)                                | \$35,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 815.1 TRAFFIC CONTROL SIGNAL LOCATION 01                               | \$275,000.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 815.2 TRAFFIC CONTROL SIGNAL LOCATION 02                               | \$225,000.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 815.3 TRAFFIC CONTROL SIGNAL LOCATION 03                               | \$200,000.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 816.80 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED                      | \$15,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 816.801 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED                     | \$15,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 821.5 LIGHT POLE ANDSINGLE PENDANTLUMINAIRE W/ 8'ARM AND BANNERARM     | \$585,750.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 821.51 LIGHT POLE ANDSINGLE PENDANTLUMINAIRE W/ 12'ARM AND BANNERARM   | \$115,050.00  | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 821.52 LIGHT POLE ARMAND SINGLEPENDANTLUMINAIRE W/ 4'ARM AND BANNERARM | \$88,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 821.53 LIGHT POLE ANDDOUBLE PENDANTLUMINAIRE ANDBANNER ARM             | \$42,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 823.61 HIGHWAY LIGHTING LOAD CENTER NO.1                               | \$30,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 823.62 HIGHWAY LIGHTING LOAD CENTER NO.2                               | \$30,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 824.211 RECTANGULAR RAPID FLASHING BEACON (AC POWERED)                 | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 824.221 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 1          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 824.222 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 2          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 824.223 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 3          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 824.224 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 4          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 824.225 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 5          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 824.226 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 6          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 824.227 RECTANGULAR RAPID FLASHING BEACON (SOLAR)- LOC. NO. 7          | \$25,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 832.0 WARNING-REGULATORY AND ROUTE MARKER - ALUM. PANEL (TYPE A)       | \$9,600.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 833.5 DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARD RAIL                | \$495.00      | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 833.7 DELINEATION FOR GUARD RAIL TERMINATION                           | \$1,155.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 847.1 SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL      | \$13,390.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 850.41 ROADWAY FLAGGER   | \$57,120.00   | \$0.00      | Remaining Early Cost | \$1,053.87 |          |          |          |          |          |
| [Contract No] 851.1 TRAFFIC CONES FOR TRAFFIC MANAGEMENT                             | \$288,150.00  | \$0.00      | Remaining Early Cost | \$5,316.41 |          |          |          |          |          |
| [Contract No] 852.0 SAFETY SIGNING FOR TRAFFIC MANAGEMENT                            | \$30,310.00   | \$0.00      | Remaining Early Cost | \$559.22   |          |          |          |          |          |
| [Contract No] 852.11 TEMPORARY PEDESTRIAN BARRICADE                                  | \$22,500.00   | \$0.00      | Remaining Early Cost | \$415.13   |          |          |          |          |          |
| [Contract No] 852.12 TEMPORARY PEDESTRIAN CURB RAMP                                  | \$32,000.00   | \$0.00      | Remaining Early Cost | \$590.38   |          |          |          |          |          |
| [Contract No] 853.1 PORTABLE BREAKAWAY BARRICADE TYPE III                            | \$1,000.00    | \$0.00      | Remaining Early Cost | \$18.45    |          |          |          |          |          |
| [Contract No] 853.2 TEMPORARY BARRIER (TL-2)   | \$72,000.00   | \$0.00      | Remaining Early Cost | \$1,328.41 |          |          |          |          |          |
| [Contract No] 853.21 TEMPORARY BARRIER REMOVED AND RESET                             | \$19,800.00   | \$0.00      | Remaining Early Cost | \$365.31   |          |          |          |          |          |
| [Contract No] 853.501 TEMPORARY IMPACT ATTENUATOR REMOVED AND RESET                  | \$11,000.00   | \$0.00      | Remaining Early Cost | \$202.95   |          |          |          |          |          |
| [Contract No] 853.63 TEMPORARY IMPACT ATTENUATOR UNIDIRECTIONAL REDIRECTIVE TL3      | \$42,000.00   | \$0.00      | Remaining Early Cost | \$774.94   |          |          |          |          |          |
| [Contract No] 853.80 TEMPORARY ILLUMINATION FOR WORK ZONE                            | \$68,000.00   | \$0.00      | Remaining Early Cost | \$1,254.63 |          |          |          |          |          |
| [Contract No] 854.016 TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)                   | \$24,679.00   | \$0.00      | Remaining Early Cost | \$455.33   |          |          |          |          |          |
| [Contract No] 854.1 PAVEMENT MARKING REMOVAL   | \$6,000.00    | \$0.00      | Remaining Early Cost | \$110.70   |          |          |          |          |          |
| [Contract No] 856.0 ARROW BOARD  | \$12,800.00   | \$0.00      | Remaining Early Cost | \$236.16   |          |          |          |          |          |



[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Dec-21       | 1-Jan-22       | 1-Feb-22       | 1-Mar-22       | 1-Apr-22       | 1-May-22        | 1-Jun-22        | 1-Jul-22        | 1-Aug-22        | 1-Sep-22        | 1-Oct-22        | 1-Nov-22        |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Monthly Projection            | \$0.00         | \$0.00         | \$0.00         | \$326,355.77   | \$996,201.62   | \$1,098,813.52  | \$1,084,327.58  | \$801,120.28    | \$752,876.56    | \$216,635.60    | \$337,052.75    | \$344,624.75    |
| Cumulative Monthly Projection | \$8,264,929.72 | \$8,264,929.72 | \$8,264,929.72 | \$8,591,285.49 | \$9,587,487.11 | \$10,686,300.63 | \$11,770,628.21 | \$12,571,748.49 | \$13,324,625.05 | \$13,541,260.65 | \$13,878,313.40 | \$14,222,938.15 |
| Monthly Total as % of Bid     | 0.00%          | 0.00%          | 0.00%          | 1.66%          | 5.07%          | 5.59%           | 5.51%           | 4.07%           | 3.83%           | 1.10%           | 1.71%           | 1.75%           |
| Cumulative Total as % of Bid  | 42.02%         | 42.02%         | 42.02%         | 43.68%         | 48.75%         | 54.33%          | 59.85%          | 63.92%          | 67.75%          | 68.85%          | 70.56%          | 72.32%          |

| Activity Name   | Budgeted Cost  | Actual Cost | Spreadsheet Field    | 1-Dec-21 | 1-Jan-22 | 1-Feb-22 | 1-Mar-22   | 1-Apr-22    | 1-May-22    | 1-Jun-22    | 1-Jul-22     | 1-Aug-22   | 1-Sep-22   | 1-Oct-22    | 1-Nov-22   |
|---|----------------|-------------|----------------------|----------|----------|----------|------------|-------------|-------------|-------------|--------------|------------|------------|-------------|------------|
| [Contract No] 856.12 PORTABLE CHANGEABLE MESSAGE SIGN                           | \$62,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$1,487.08 | \$2,287.82  | \$2,402.21  | \$2,516.61  | \$2,287.82   | \$2,631.00 | \$2,402.21 | \$2,287.82  | \$2,173.43 |
| [Contract No] 859.0 REFLECTORIZED DRUM  | \$12,000.00    | \$0.00      | Remaining Early Cost |          |          |          | \$287.82   | \$442.80    | \$464.94    | \$487.08    | \$442.80     | \$509.23   | \$464.94   | \$442.80    | \$420.66   |
| [Contract No] 864.04 PAVEMENT ARROW AND LEGENDS WHITE THERMO                    | \$18,585.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 864.35 SLOTTED PAVEMENT MARKER TWO-WAY YELLOW/YELLOW              | \$4,000.00     | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 866.106 6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)           | \$16,500.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 866.112 12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)          | \$6,000.00     | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 867.106 6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)          | \$20,250.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 867.112 12 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)         | \$6,750.00     | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 874.0 STREET NAME SIGN  | \$600.00       | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 874.1 STREET NAME SIGN REMOVED AND RESET                          | \$280.00       | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 874.2 TRAFFIC SIGN REMOVED AND RESET                              | \$630.00       | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 874.41 TRAFFIC SIGN REMOVED AND DISCARDED                         | \$1,350.00     | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 901.0 4000 PSI, 1.5 IN., 565 CEMENT CONCRETE                      | \$18,750.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 903.0 3000 PSI, 1.5 IN., 470 CEMENT CONCRETE                      | \$9,000.00     | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 910.0 STEEL REINFORCEMENT FOR STRUCTURES                          | \$1,250.00     | \$0.00      | Remaining Early Cost |          |          |          |            |             |             | \$208.33    | \$1,041.67   |            |            |             |            |
| [Contract No] 945.011 30 INCH UTILITY POLE CAISSON                              | \$45,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 945.102 DRILLED SHAFT EXCAVATION 3.5 FOOT DIAMETER                | \$101,750.00   | \$0.00      | Remaining Early Cost |          |          |          |            | \$33,300.00 |             | \$35,150.00 |              |            |            |             |            |
| [Contract No] 945.202 ROCK SOCKET EXCAVATION 3.5 FOOT DIAMETER                  | \$48,750.00    | \$0.00      | Remaining Early Cost |          |          |          |            | \$16,250.00 |             | \$16,250.00 |              |            |            |             |            |
| [Contract No] 945.502 DRILLED SHAFT 3.5 FOOT DIAMETER                           | \$57,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            | \$19,000.00 |             | \$19,000.00 |              |            |            |             |            |
| [Contract No] 953.31 EXCAVATION SUPPORT SYSTEM SPECIAL DRAINAGE STRUCTURE NO. 1 | \$25,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 953.32 EXCAVATION SUPPORT SYSTEM SPECIAL DRAINAGE STRUCTURE NO. 2 | \$20,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 953.33 EXCAVATION SUPPORT SYSTEM SPECIAL DRAINAGE STRUCTURE NO. 2 | \$25,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 953.34 EXCAVATION SUPPORT SYSTEM SPECIAL DRAINAGE STRUCTURE NO. 4 | \$25,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            | \$10,416.67 | \$14,583.33 |             |              |            |            |             |            |
| [Contract No] 986.1 MODIFIED ROCKFILL   | \$51,425.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            | \$25,685.00 |            |
| [Contract No] 991.11 CONTROL OF WATER - LOCATION 1                              | \$30,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 991.12 CONTROL OF WATER - LOCATION 2                              | \$25,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 991.13 CONTROL OF WATER - LOCATION 3                              | \$30,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 991.14 CONTROL OF WATER - LOCATION 4                              | \$25,000.00    | \$0.00      | Remaining Early Cost |          |          |          |            |             |             | \$25,000.00 |              |            |            |             |            |
| [Contract No] 992.33 COORDINATION AND SUPPORT OF GAS MAINS AT CULVERTS          | \$125,000.00   | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 996.01 WALL STRUCTURE- WALL NO. 1                                 | \$350,000.00   | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 996.02 WALL STRUCTURE- WALL NO. 2                                 | \$2,057,000.00 | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 997.1 SPECIAL DRAINAGE STRUCTURE NO. 1                            | \$250,000.00   | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 997.2 SPECIAL DRAINAGE STRUCTURE NO. 2                            | \$200,000.00   | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 997.3 SPECIAL DRAINAGE STRUCTURE NO. 3                            | \$225,000.00   | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             |              |            |            |             |            |
| [Contract No] 997.4 SPECIAL DRAINAGE STRUCTURE NO. 4                            | \$175,000.00   | \$0.00      | Remaining Early Cost |          |          |          |            |             |             |             | \$175,000.00 |            |            |             |            |



[CONTRACTOR NAME]  
 [CONTRACT NO] + [CONTRACT DESCRIPTION]  
 Section 722 - Construction Scheduling & Projected Spending Report  
 [SCHEDULE BASIS]

|                               | 1-Nov-23        | 1-Dec-23        | 1-Jan-24        | 1-Feb-24        | 1-Mar-24        | 1-Apr-24        |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Monthly Projection            | \$412,760.66    | \$87,248.00     | \$21,812.00     | \$0.00          | \$0.00          | \$195,000.00    |
| Cumulative Monthly Projection | \$19,363,568.01 | \$19,450,816.01 | \$19,472,628.01 | \$19,472,628.01 | \$19,472,628.01 | \$19,667,628.01 |
| Monthly Total as % of Bid     | 2.10%           | 0.44%           | 0.11%           | 0.00%           | 0.00%           | 0.99%           |
| Cumulative Total as % of Bid  | 98.45%          | 98.90%          | 99.01%          | 99.01%          | 99.01%          | 100.00%         |

| Activity Name   | Budgeted Cost  | Actual Cost | Spreadsheet Field    | 1-Nov-23   | 1-Dec-23 | 1-Jan-24 | 1-Feb-24 | 1-Mar-24 | 1-Apr-24 |
|---|----------------|-------------|----------------------|------------|----------|----------|----------|----------|----------|
| [Contract No] 856.12 PORTABLE CHANGEABLE MESSAGE SIGN                           | \$62,000.00    | \$0.00      | Remaining Early Cost | \$1,143.91 |          |          |          |          |          |
| [Contract No] 859.0 REFLECTORIZED DRUM  | \$12,000.00    | \$0.00      | Remaining Early Cost | \$221.40   |          |          |          |          |          |
| [Contract No] 864.04 PAVEMENT ARROW AND LEGENDS WHITE THERMO                    | \$18,585.00    | \$0.00      | Remaining Early Cost | \$3,097.50 |          |          |          |          |          |
| [Contract No] 864.35 SLOTTED PAVEMENT MARKER TWO-WAY YELLOW/YELLOW              | \$4,000.00     | \$0.00      | Remaining Early Cost | \$666.67   |          |          |          |          |          |
| [Contract No] 866.106 6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)           | \$16,500.00    | \$0.00      | Remaining Early Cost | \$2,750.00 |          |          |          |          |          |
| [Contract No] 866.112 12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)          | \$6,000.00     | \$0.00      | Remaining Early Cost | \$1,000.00 |          |          |          |          |          |
| [Contract No] 867.106 6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)          | \$20,250.00    | \$0.00      | Remaining Early Cost | \$3,375.00 |          |          |          |          |          |
| [Contract No] 867.112 12 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)         | \$6,750.00     | \$0.00      | Remaining Early Cost | \$1,125.00 |          |          |          |          |          |
| [Contract No] 874.0 STREET NAME SIGN  | \$600.00       | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 874.1 STREET NAME SIGN REMOVED AND RESET                          | \$280.00       | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 874.2 TRAFFIC SIGN REMOVED AND RESET                              | \$630.00       | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 874.41 TRAFFIC SIGN REMOVED AND DISCARDED                         | \$1,350.00     | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 901.0 4000 PSI, 1.5 IN., 565 CEMENT CONCRETE                      | \$18,750.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 903.0 3000 PSI, 1.5 IN., 470 CEMENT CONCRETE                      | \$9,000.00     | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 910.0 STEEL REINFORCEMENT FOR STRUCTURES                          | \$1,250.00     | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 945.011 30 INCH UTILITY POLE CAISSON                              | \$45,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 945.102 DRILLED SHAFT EXCAVATION 3.5 FOOT DIAMETER                | \$101,750.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 945.202 ROCK SOCKET EXCAVATION 3.5 FOOT DIAMETER                  | \$48,750.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 945.502 DRILLED SHAFT 3.5 FOOT DIAMETER                           | \$57,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 953.31 EXCAVATION SUPPORT SYSTEM SPECIAL DRAINAGE STRUCTURE NO. 1 | \$25,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 953.32 EXCAVATION SUPPORT SYSTEM SPECIAL DRAINAGE STRUCTURE NO. 2 | \$20,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 953.33 EXCAVATION SUPPORT SYSTEM SPECIAL DRAINAGE STRUCTURE NO. 2 | \$25,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 953.34 EXCAVATION SUPPORT SYSTEM SPECIAL DRAINAGE STRUCTURE NO. 4 | \$25,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 986.1 MODIFIED ROCKFILL   | \$51,425.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 991.11 CONTROL OF WATER - LOCATION 1                              | \$30,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 991.12 CONTROL OF WATER - LOCATION 2                              | \$25,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 991.13 CONTROL OF WATER - LOCATION 3                              | \$30,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 991.14 CONTROL OF WATER - LOCATION 4                              | \$25,000.00    | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 992.33 COORDINATION AND SUPPORT OF GAS MAINS AT CULVERTS          | \$125,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 996.01 WALL STRUCTURE- WALL NO. 1                                 | \$350,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 996.02 WALL STRUCTURE- WALL NO. 2                                 | \$2,057,000.00 | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 997.1 SPECIAL DRAINAGE STRUCTURE NO. 1                            | \$250,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 997.2 SPECIAL DRAINAGE STRUCTURE NO. 2                            | \$200,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 997.3 SPECIAL DRAINAGE STRUCTURE NO. 3                            | \$225,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |
| [Contract No] 997.4 SPECIAL DRAINAGE STRUCTURE NO. 4                            | \$175,000.00   | \$0.00      | Remaining Early Cost |            |          |          |          |          |          |

## ATTACHMENT G: SAMPLE NARRATIVE REPORTS

# Design-Bid Baseline Narrative Template – Type A&B Schedule

## 1. Preliminary Section:

**Schedule Submittal Identification:** Update Period: NA

Data Date: MM/DD/YYYY (date of Notice to Proceed)

Schedule File Name: *Contract#-Project# - Town(s) - Baseline Rxx (DD YYYY-MM-DD).xer*

Previous Schedule File Name: *(Insert Name of previous schedule current schedule is based upon)*

### Schedule Submittal Log

| Schedule        | File Name        | Data Date | Date Submitted by Contractor | Date Review Returned to Contractor (Outcome) |
|-----------------|------------------|-----------|------------------------------|--|
| Baseline Rev 00 | Cxxxxxx BL00.xer | 1/12/2022 | 1/23/2022                    | 2/15/2022 (rejected)                         |
| Baseline Rev 01 | Cxxxxxx BL01.xer | 1/12/2022 | 2/25/2022                    | 3/2/2022 (rejected)                          |
| Baseline Rev 02 | Cxxxxxx BL02.xer | 1/12/2022 | 3/5/2022                     | 3/15/2022 (rejected)                         |
| Baseline Rev 03 | Cxxxxxx BL03.xer | 1/12/2022 | 3/17/2022                    | pending                                      |

### **Schedule Milestone Chart**

The table below depicts Contractual and Interim milestone activities utilized in the Schedule:

| MILESTONES      |  |                        | Contractual or Baseline | Past Submission: |                         | Current Submission |                         |                       |
|-----------------|--|------------------------|-------------------------|------------------|-------------------------|--------------------|-------------------------|-----------------------|
|                 |  |                        | Milestones              | BL02             | BL03                    |                    | BL03                    |                       |
| DOT Milestone # | Contractor Activity Name                           | Contractor Activity ID | Dates                   | Dates            | Contract Variance in CD | Dates              | Contract Variance in CD | Update Variance in CD |
| MS #0           | Notice To Proceed (January 12, 2022)               | CXXXXXX-1000           | 12-Jan-22               | 12-Jan-22        | 0                       | 12-Jan-22          | 0                       | 0                     |
| MS #3           | Full Beneficial Use                                | CXXXXXX-MS03           | 28-Feb-26               | 23-Sep-25        | 158                     | 1-Oct-25           | 151                     | -8                    |
| MS #2           | Substantial Completion Confirmation by MassDOT     | CXXXXXX-MS02           | 21-Mar-26               | 14-Oct-25        | 158                     | 22-Oct-25          | 151                     | -8                    |
| MS #1           | Contractor Field Completion (CFC) (April 26, 2026) | CXXXXXX-MS01           | 26-Apr-26               | 19-Nov-25        | 158                     | 21-Nov-25          | 157                     | -2                    |

## 2. Narrative Section:

- **Detailed discussion of Early Release Packages**
- **Detailed Discussion of Permitting and/or existing Permit Amendments**
- **Detailed Discussion of Early Action Construction Submittals**
- **Detailed Discussion of ATC Change Proposals**
- **Description of General Sequence of Work Section:** *Example: The Design-Builder will begin design of the Phase 1 utility enabling work, then mobilize to the Project and perform the operations necessary for utility enabling. Following the enabling operations, the utility companies will mobilize and perform....*
- **Description of Longest Path:** *Example: The critical path starts with the submittal and approval of the SWPPP plan followed by the installation of the erosion controls, then ... ). The path starts with (proceed to describe critical / longest path and identify true concurrent longest paths...)*
- **Narrative Description/Verification of all Contractual Limitations of Operations:**
- **Narrative Description/Verification of Limitations Introduced by the Contactor:**

- **Narrative Verification of:**
  - All work that will (or won't) be progressed through the winter (based upon requirements identified in the Special Provisions)
  - Physical / Site Access Restraints
  - Utility Work Access/Restrictions
  - Work Schedules (including holidays, shifts, calendars, seasonal work), and environmental restrictions.
- ***Planned Resources General Discussion of Resource Requirements*** (Note that for Type A&B Schedules, further information/greater detail will need to be provided in the Resource Section of the Baseline Narrative)
  - Labor
  - Equipment
- ***Identification of Work Responsibility***
  - List Subcontracted work
- **Detailed Discussion of Fabrication and Long-lead Procurement Items**
  - Include a list of Delivery Need Dates to meet Schedule Demands
- ***General Discussion of Cash Flow Projections / PSR*** (Note that for Type A&B Schedules, further information/greater detail will need to be provided in the Cost Section of the Baseline Narrative)

3. **Calendars Section:**

- Identification/confirmation that all calendar settings extend 3-years beyond CFC.

4. **Constraints/Logic Section:**

- Description of changes if made between baseline revisions

5. **Project Scope Section:**

- Design-Builders Description of compliance with the timing of the access restraints established specifically for utility relocations.

6. **Milestones Section:**

- Identification / Explanation for any unspecified Milestones being requested by Design-Builder.

7. **Critical Path Section:**

- A detailed, **written summary** of the critical path that may be supported by snapshots should the scheduler choose. Copying and pasting tables exported from the Schedule will no longer be acceptable. The written summary should detail what priority submittals are most critical to maintaining the schedule.
- Confirmation that the late finish date shown on the Schedule is the same as the specified Contract Completion.
- Identification of the percentage of all unfinished activities on the Critical/Longest Path to all unfinished activities within the schedule.
- A detailed, **written summary** of additional “near critical” (<20 days float) path(s) including required submittals that need to be addressed in a timely manner to avoid the path(s) becoming critical.

8. **Cost Loading Section:**

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- Confirmation summarized cost loading equals total bid value.
- Confirmation summarized cost loading by cost account equals total bid value.
- Confirmation only “Base Bid” cost loading is included.
- Identification of Materials on Hand as an upfront cost.
- Provide a summary cost-loading Histogram graphic (.jpg or .png format) per month depicting the early and late per period values from the schedule
- Provide a summary cumulative ‘S-Curve’ cost-loading graphic (.jpg or .png format) per month depicting both the early and late curves from the schedule.

**9. Resource Loading Section:**

- Provide information as to how resource loading was performed (either by individuals or crews).
- Provide crew structure details if resource loading is by crews.
- Provide peak labor head count forecast utilizing the Early Dates.
- Provide peak labor head count forecast utilizing the Late Dates.
- Generate/provide a summary monthly average labor hours-loading histogram or line graphic (.jpg or .png) depicting the early and late per period values from the schedule.

**10. Response to Comments Section:**

- Include a snapshot of the previous comment which includes the name of the ForECAST Report Section.
-

# Design-Bid Baseline Narrative Template – Type C Schedule

## 1. Preliminary Section:

**Schedule Submittal Identification:** Update Period: NA

Data Date: MM/DD/YYYY (date of Notice to Proceed)

Schedule File Name: *Contract#-Project# - Town(s) - Baseline Rxx (DD YYYY-MM-DD).xer*

Previous Schedule File Name: *(Insert Name of previous schedule current schedule is based upon)*

### Schedule Submittal Log

| Schedule        | File Name        | Data Date | Date Submitted by Contractor | Date Review Returned to Contractor (Outcome) |
|-----------------|------------------|-----------|------------------------------|--|
| Baseline Rev 00 | Cxxxxxx BL00.xer | 1/12/2022 | 1/23/2022                    | 2/15/2022 (rejected)                         |
| Baseline Rev 01 | Cxxxxxx BL01.xer | 1/12/2022 | 2/25/2022                    | 3/2/2022 (rejected)                          |
| Baseline Rev 02 | Cxxxxxx BL02.xer | 1/12/2022 | 3/5/2022                     | 3/15/2022 (rejected)                         |
| Baseline Rev 03 | Cxxxxxx BL03.xer | 1/12/2022 | 3/17/2022                    | pending                                      |

### **Schedule Milestone Chart**

The table below depicts Contractual and Interim milestone activities utilized in the Schedule:

| MILESTONES      |  |                        | Contractual or Baseline | Past Submission: |                         | Current Submission |                         |                       |
|-----------------|--|------------------------|-------------------------|------------------|-------------------------|--------------------|-------------------------|-----------------------|
|                 |  |                        | Milestones              | BL02             | BL03                    |                    |                         |                       |
| DOT Milestone # | Contractor Activity Name                           | Contractor Activity ID | Dates                   | Dates            | Contract Variance in CD | Dates              | Contract Variance in CD | Update Variance in CD |
| MS #0           | Notice To Proceed (January 12, 2022)               | CXXXXXX-1000           | 12-Jan-22               | 12-Jan-22        | 0                       | 12-Jan-22          | 0                       | 0                     |
| MS #3           | Full Beneficial Use                                | CXXXXXX-MS03           | 28-Feb-26               | 23-Sep-25        | 158                     | 1-Oct-25           | 151                     | -8                    |
| MS #2           | Substantial Completion Confirmation by MassDOT     | CXXXXXX-MS02           | 21-Mar-26               | 14-Oct-25        | 158                     | 22-Oct-25          | 151                     | -8                    |
| MS #1           | Contractor Field Completion (CFC) (April 26, 2026) | CXXXXXX-MS01           | 26-Apr-26               | 19-Nov-25        | 158                     | 21-Nov-25          | 157                     | -2                    |

## 2. Narrative Section:

- ***Detailed discussion of Early Release Packages***
- ***Detailed Discussion of Permitting and/or existing Permit Amendments***
- ***Detailed Discussion of Early Action Construction Submittals***
- ***Detailed Discussion of ATC Change Proposals***
- ***Description of General Sequence of Work Section:*** *Example: The Design-Builder will begin design of the Phase 1 utility enabling work, then mobilize to the Project and perform the operations necessary for utility enabling. Following the enabling operations, the utility companies will mobilize and perform....*
- ***Description of Longest Path:*** *Example: The critical path starts with the submittal and approval of the SWPPP plan followed by the installation of the erosion controls, then ... ). The path starts with (proceed to describe critical / longest path and identify true concurrent longest paths...)*
- **Narrative Description/Verification of all Contractual Limitations of Operations:**
- **Narrative Description/Verification of Limitations Introduced by the Contactor:**

- **Narrative Verification of:**
  - All work that will (or won't) be progressed through the winter (based upon requirements identified in the Special Provisions)
  - Physical / Site Access Restraints
  - Utility Work Access/Restrictions
  - Work Schedules (including holidays, shifts, calendars, seasonal work), and environmental restrictions.
- ***Planned Resources General Discussion of Resource Requirements*** (Note that for Type A&B Schedules, further information/greater detail will need to be provided in the Resource Section of the Baseline Narrative)
  - Labor
  - Equipment
- ***Identification of Work Responsibility***
  - List Subcontracted work
- **Detailed Discussion of Fabrication and Long-lead Procurement Items**
  - Include a list of Delivery Need Dates to meet Schedule Demands
- ***General Discussion of Cash Flow Projections / PSR*** (Note that for Type A&B Schedules, further information/greater detail will need to be provided in the Cost Section of the Baseline Narrative)

3. **Calendars Section:**

- Identification/confirmation that all calendar settings extend 3-years beyond CFC.

4. **Constraints/Logic Section:**

- Description of changes if made between baseline revisions

5. **Project Scope Section:**

- Design-Builders Description of compliance with the timing of the access restraints established specifically for utility relocations.

6. **Milestones Section:**

- Identification / Explanation for any unspecified Milestones being requested by Design-Builder.

7. **Critical Path Section:**

- A detailed, **written summary** of the critical path that may be supported by snapshots should the scheduler choose. Copying and pasting tables exported from the Schedule will no longer be acceptable. The written summary should detail what priority submittals are most critical to maintaining the schedule.
- Confirmation that the late finish date shown on the Schedule is the same as the specified Contract Completion.
- Identification of the percentage of all unfinished activities on the Critical/Longest Path to all unfinished activities within the schedule.
- A detailed, **written summary** of additional “near critical” (<20 days float) path(s) including required submittals that need to be addressed in a timely manner to avoid the path(s) becoming critical.

8. **Response to Comments Section:**

- Include a snapshot of the previous comment which includes the name of the ForECAS T Report Section.
-

# Design-Bid-Build Baseline Narrative Template – Type A&B Schedule

## 1. Preliminary Section:

**Schedule Submittal Identification:** Update Period: NA

Data Date: MM/DD/YYYY (date of Notice to Proceed)

Schedule File Name: *Contract#-Project# - Town(s) - Baseline Rxx (DD YYYY-MM-DD).xer*

Previous Schedule File Name: *(Insert Name of previous schedule current schedule is based upon)*

### Schedule Submittal Log

| Schedule        | File Name        | Data Date | Date Submitted by Contractor | Date Review Returned to Contractor (Outcome) |
|-----------------|------------------|-----------|------------------------------|--|
| Baseline Rev 00 | Cxxxxxx BL00.xer | 1/12/2022 | 1/23/2022                    | 2/15/2022 (rejected)                         |
| Baseline Rev 01 | Cxxxxxx BL01.xer | 1/12/2022 | 2/25/2022                    | 3/2/2022 (rejected)                          |
| Baseline Rev 02 | Cxxxxxx BL02.xer | 1/12/2022 | 3/5/2022                     | 3/15/2022 (rejected)                         |
| Baseline Rev 03 | Cxxxxxx BL03.xer | 1/12/2022 | 3/17/2022                    | pending                                      |

### Schedule Milestone Chart

The table below depicts Contractual and Interim milestone activities utilized in the Schedule:

| MILESTONES      |  |                        | Contractual or Baseline | Past Submission: BL02 |                         | Current Submission BL03 |                         |                       |
|-----------------|--|------------------------|-------------------------|-----------------------|-------------------------|-------------------------|-------------------------|-----------------------|
|                 |  |                        | Milestones              | 12-Jan-22             | Contract Variance in CD | 12-Jan-22               | Contract Variance in CD | Update Variance in CD |
| DOT Milestone # | Contractor Activity Name                           | Contractor Activity ID | Dates                   | Dates                 |                         | Dates                   |                         |                       |
| MS #0           | Notice To Proceed (January 12, 2022)               | CXXXXXX-1000           | 12-Jan-22               | 12-Jan-22             | 0                       | 12-Jan-22               | 0                       | 0                     |
| MS #3           | Full Beneficial Use                                | CXXXXXX-MS03           | 28-Feb-26               | 23-Sep-25             | 158                     | 1-Oct-25                | 151                     | -8                    |
| MS #2           | Substantial Completion Confirmation by MassDOT     | CXXXXXX-MS02           | 21-Mar-26               | 14-Oct-25             | 158                     | 22-Oct-25               | 151                     | -8                    |
| MS #1           | Contractor Field Completion (CFC) (April 26, 2026) | CXXXXXX-MS01           | 26-Apr-26               | 19-Nov-25             | 158                     | 21-Nov-25               | 157                     | -2                    |

## 2. Narrative Section:

- **Description of General Sequence of Work Section:** Example: The Contractor will mobilize to the Project and perform the operations necessary for utility enabling. Following the enabling operations, the utility companies will mobilize and perform....
- **Description of Longest Path:** Example: The critical path starts with the submittal and approval of the SWPPP plan followed by the installation of the erosion controls, then ... ). The path starts with (proceed to describe critical / longest path and identify true concurrent longest paths...)
- **Narrative Description/Verification of all Contractual Limitations of Operations:**
- **Narrative Description/Verification of Limitations Introduced by the Contactor:**
- **Narrative Verification of:**
  - All work that will (or won't) be progressed through the winter (based upon requirements identified in the Special Provisions)
  - Physical / Site Access Restraints
  - Utility Work Access/Restrictions
  - Work Schedules (including holidays, shifts, calendars, seasonal work), and environmental

restrictions.

- Planned Resources General Discussion of Resource Requirements (*Note that for Type A&B Schedules, further information/greater detail will need to be provided in the Resource Section of the Baseline Narrative*)
  - Labor
  - Equipment
- Identification of Work Responsibility
  - List Subcontracted work
- General Discussion of Cash Flow Projections / PSR (*Note that for Type A Schedules, further information/greater detail will need to be provided in the Cost Section of the Baseline Narrative*)

**3. Calendars Section:**

- Identification/confirmation that all calendar settings extend 3-years beyond CFC.

**4. Constraints/Logic Section:**

- Description of changes if made between baseline revisions

**5. Project Scope Section:**

- Contractor/s Description of compliance with the timing of the access restraints established specifically for utility relocations.

**6. Milestones Section:**

- Identification / Explanation for any unspecified Milestones being requested by Contractor.

**7. Critical Path Section:**

- A detailed, **written summary** of the critical path that may be supported by snapshots should the scheduler choose. Copying and pasting tables exported from the Schedule will no longer be acceptable. The written summary should detail what priority submittals are most critical to maintaining the schedule.
- Confirmation that the late finish date shown on the Schedule is the same as the specified Contract Completion.
- Identification of the percentage of all unfinished activities on the Critical/Longest Path to all unfinished activities within the schedule.
- A detailed, **written summary** of additional “near critical” (<20 days float) path(s) including required submittals that need to be addressed in a timely manner to avoid the path(s) becoming critical.

**8. Cost Loading Section:**

- Confirmation summarized cost loading equals total bid value.
  - Confirmation summarized cost loading by cost account equals total bid value.
  - Confirmation only “Base Bid” cost loading is included.
  - Identification of Materials on Hand as an upfront cost.
-

- Provide a summary cost-loading Histogram graphic (.jpg or .png format) per month depicting the early and late per period values from the schedule
- Provide a summary cumulative 'S-Curve' cost-loading graphic (.jpg or .png format) per month depicting both the early and late curves from the schedule.

**9. Resource Loading Section:**

- Provide information as to how resource loading was performed (either by individuals or crews).
- Provide crew structure details if resource loading is by crews.
- Provide peak labor head count forecast utilizing the Early Dates.
- Provide peak labor head count forecast utilizing the Late Dates.
- Generate/provide a summary monthly average labor hours-loading histogram or line graphic (.jpg or .png) depicting the early and late per period values from the schedule.

**10. Response to Comments Section:**

- Include a snapshot of the previous comment which includes the name of the ForECAST Report Section.
-

# Design-Bid-Build Baseline Narrative Template – Type C Schedule

## 1. Preliminary Section:

**Schedule Submittal Identification:** Update Period: NA

Data Date: MM/DD/YYYY (date of Notice to Proceed)

Schedule File Name: *Contract#-Project# - Town(s) - Baseline Rxx (DD YYYY-MM-DD).xer*

Previous Schedule File Name: *(Insert Name of previous schedule current schedule is based upon)*

### Schedule Submittal Log

| Schedule        | File Name        | Data Date | Date Submitted by Contractor | Date Review Returned to Contractor (Outcome) |
|-----------------|------------------|-----------|------------------------------|--|
| Baseline Rev 00 | Cxxxxxx BL00.xer | 1/12/2022 | 1/23/2022                    | 2/15/2022 (rejected)                         |
| Baseline Rev 01 | Cxxxxxx BL01.xer | 1/12/2022 | 2/25/2022                    | 3/2/2022 (rejected)                          |
| Baseline Rev 02 | Cxxxxxx BL02.xer | 1/12/2022 | 3/5/2022                     | 3/15/2022 (rejected)                         |
| Baseline Rev 03 | Cxxxxxx BL03.xer | 1/12/2022 | 3/17/2022                    | pending                                      |

### Schedule Milestone Chart

The table below depicts Contractual and Interim milestone activities utilized in the Schedule:

| MILESTONES      |  |                        | Contractual or Baseline | Past Submission: BL02 |                         | Current Submission BL03 |                         |                       |
|-----------------|--|------------------------|-------------------------|-----------------------|-------------------------|-------------------------|-------------------------|-----------------------|
|                 |  |                        | Milestones              | 12-Jan-22             | Contract Variance in CD | 12-Jan-22               | Contract Variance in CD | Update Variance in CD |
| DOT Milestone # | Contractor Activity Name                           | Contractor Activity ID | Dates                   | Dates                 | Contract Variance in CD | Dates                   | Contract Variance in CD | Update Variance in CD |
| MS #0           | Notice To Proceed (January 12, 2022)               | CXXXXXX-1000           | 12-Jan-22               | 12-Jan-22             | 0                       | 12-Jan-22               | 0                       | 0                     |
| MS #3           | Full Beneficial Use                                | CXXXXXX-MS03           | 28-Feb-26               | 23-Sep-25             | 158                     | 1-Oct-25                | 151                     | -8                    |
| MS #2           | Substantial Completion Confirmation by MassDOT     | CXXXXXX-MS02           | 21-Mar-26               | 14-Oct-25             | 158                     | 22-Oct-25               | 151                     | -8                    |
| MS #1           | Contractor Field Completion (CFC) (April 26, 2026) | CXXXXXX-MS01           | 26-Apr-26               | 19-Nov-25             | 158                     | 21-Nov-25               | 157                     | -2                    |

## 2. Narrative Section:

- **Description of General Sequence of Work Section:** Example: The Contractor will mobilize to the Project and perform the operations necessary for utility enabling. Following the enabling operations, the utility companies will mobilize and perform....
- **Description of Longest Path:** Example: The critical path starts with the submittal and approval of the SWPPP plan followed by the installation of the erosion controls, then ... ). The path starts with (proceed to describe critical / longest path and identify true concurrent longest paths...)
- **Narrative Description/Verification of all Contractual Limitations of Operations:**
- **Narrative Description/Verification of Limitations Introduced by the Contactor:**
- **Narrative Verification of:**
  - All work that will (or won't) be progressed through the winter (based upon requirements identified in the Special Provisions)
  - Physical / Site Access Restraints
  - Utility Work Access/Restrictions
  - Work Schedules (including holidays, shifts, calendars, seasonal work), and environmental

restrictions.

- Planned Resources General Discussion of Resource Requirements (*Note that for Type A&B Schedules, further information/greater detail will need to be provided in the Resource Section of the Baseline Narrative*)
  - Labor
  - Equipment
- Identification of Work Responsibility
  - List Subcontracted work
- General Discussion of Cash Flow Projections / PSR (*Note that for Type A Schedules, further information/greater detail will need to be provided in the Cost Section of the Baseline Narrative*)

3. **Calendars Section:**

- Identification/confirmation that all calendar settings extend 3-years beyond CFC.

4. **Constraints/Logic Section:**

- Description of changes if made between baseline revisions

5. **Project Scope Section:**

- Contractor/s Description of compliance with the timing of the access restraints established specifically for utility relocations.

6. **Milestones Section:**

- Identification / Explanation for any unspecified Milestones being requested by Contractor.

7. **Critical Path Section:**

- A detailed, **written summary** of the critical path that may be supported by snapshots should the scheduler choose. Copying and pasting tables exported from the Schedule will no longer be acceptable. The written summary should detail what priority submittals are most critical to maintaining the schedule.
- Confirmation that the late finish date shown on the Schedule is the same as the specified Contract Completion.
- Identification of the percentage of all unfinished activities on the Critical/Longest Path to all unfinished activities within the schedule.
- A detailed, **written summary** of additional “near critical” (<20 days float) path(s) including required submittals that need to be addressed in a timely manner to avoid the path(s) becoming critical.

8. **Response to Comments Section:**

- Include a snapshot of the previous comment which includes the name of the ForECAS T Report Section.
-

# Design-Build Progress Update Narrative Template – Type A&B Schedule

- Preliminary Section:**

**Schedule Submittal Identification:** Update Period: MMMM YYYY

Data Date: MM/DD/YYYY

Schedule File Name: *Contract#-Project# - Town(s) – UPxxRxx\_DD YYYY-MM-DD.xer*

Previous Schedule File Name: *(Insert Name of previous schedule current schedule is based upon)*

### 3-Month Schedule Submittal Log

| Schedule              | File Name           | Data Date | Date Submitted by Design Builder | Date Review Returned to Design Builder (Outcome) |
|-----------------------|---------------------|-----------|----------------------------------|--|
| Progress Update-15    | Cxxxxxx UP15.xer    | 4/12/2023 | 4/23/2023                        | 4/28/2023 (rejected)                             |
| Progress Update-15R01 | Cxxxxxx UP15R01.xer | 4/12/2023 | 5/5/2023                         | 5/15/2023 (accepted)                             |
| Progress Update-16    | Cxxxxxx UP16.xer    | 5/12/2023 | 5/23/2023                        | 5/28/2023 (accepted)                             |
| Progress Update-17    | Cxxxxxx UP17.xer    | 6/12/2023 | 6/23/2023                        | pending  |

### Schedule Milestone Chart

The table below depicts Contractual and Interim milestone activities utilized in the Schedule:

| MILESTONE ANALYSIS |                             |                      |                  |                         |                        |                                     |                                     |
|--------------------|-----------------------------|----------------------|------------------|-------------------------|------------------------|-------------------------------------|-------------------------------------|
| DOT Milestone #    | Milestone Description       | Schedule Activity ID | Contractual Date | Previous Submittal Date | Current Submittal Date | Current Variance to Contract (Days) | Current Variance to Previous (Days) |
| MS#00              | Notice to Proceed           | Cxxxxxx-1000         | 1/12/2022        | 1/12/2022               | 1/12/2022              | 0                                   | 0                                   |
| MS#03              | Full Beneficial Use         | Cxxxxxx-MS03         | 2/28/2026        | 2/28/2026               | 3/15/2026              | (15)                                | (15)                                |
| MS#02              | Substantial Completion      | Cxxxxxx-MS02         | 3/21/2026        | 3/21/2026               | 4/5/2026               | (15)                                | (15)                                |
| MS#01              | Contractor Field Completion | Cxxxxxx-MS01         | 4/26/2026        | 4/26/2026               | 5/11/2026              | (15)                                | (15)                                |

### 1. Narrative Section:

- Description of Current Sequence of Work and any Changes to Sequence Section:

*Example: Utility enabling work along Main Street has been completed, and the utility companies have mobilized and are performing pole relocations. Curbing along Main Street was planned to start the first week of July, however, due to the Utility Pole relocations, the curbing along Oak Street was moved to that time period, and the Main Street curbing will occur when Oak Street curbing was previously planned and when the Utility Pole relocation activities are completed....*

- Narrative Description/Verification of all Contractual Limitations of Operations:
  - Any changes to the Design Builder’s Means and Methods
  - Any changes to planned work schedule, including shifts, overtime, seasonal
  - Any new or changed environmental restrictions.
  - Any revisions to Utility/Third Party access and restrictions
- Detailed narrative discussion on any remaining Design work packages
- Narrative discussion on planned versus actual progress and variances from prior reporting
- Detail the work forecast to be accomplished during the upcoming schedule update period.
- Discuss all ongoing long-lead procurement activities, including fabrication status and forecast site delivery dates.
- Discuss any Extra Work and/or Change Orders that have been incorporated into the schedule since the previous reporting period
- Discuss any issues that have occurred within the update period that have the potential to impact the Project

schedule.

- Discuss any delays to the schedule, whether a formal ‘Notice of Delay’ have been submitted or not.
- Describe any ‘Notices of Delay’ formally submitted during the schedule update period.
  - Detailed description of effects on the project’s critical path due to the actual/perceived delay
- Discuss any Non-Conformance Reports (NCRs) or Deficiency Reports (DR) issued during the update period, along with mitigation measures being undertaken.
- Detail any Utility/Third Party Notifications that were issued during the schedule update period.
- Detail any Utility/Third Party Notifications planned to be issued in the upcoming schedule update period.
- Detail critical responses from MassDOT required, including need dates, to maintain the submitted schedule.
- Discuss any considerations that may improve schedule outcome

## 2. **Calendars Section:**

- Identification/confirmation that all calendar settings extend 3-years beyond CFC.
- Discuss any changes to existing calendars or added calendars.

## 3. **Constraints/Logic Section:**

- Description of, and reasons for, any changes to logic since previous submission
- To “Correct out-of-sequence logic” is not a sufficient description or reason

## 4. **Project Scope Section:**

- Design Builder’s description of compliance with the timing of the access restraints
- List any activities added, deleted or changed since the previous schedule submission, including reasons for changes.
- Discuss current work being performed by subcontractors

## 5. **Milestones Section:**

- Discuss any changes to Milestones from previous submission

## 6. **Critical Path Section:**

- A detailed, **written summary** of the critical path, in a form that a person not familiar with the project can understand, that may be supported by snapshots should the scheduler choose. Copying and pasting tables exported from the Schedule are not acceptable. The written summary should detail what priority submittals, RFI responses, Third-Party scope are most critical to maintaining the schedule.
- Confirmation that the late finish date shown on the Schedule is the same as the specified Contract Completion.
- Identification of the percentage of all unfinished activities on the Critical/Longest Path to all unfinished activities within the schedule.
- A detailed, **written summary** of additional “near critical” (<20 days float) path(s) including required submittals, MassDOT responses or third-party scope that need to be addressed in a timely manner to avoid the path(s) becoming critical.

## 7. **Cost Loading Section:**

- Provide a summary cost-loading Histogram graphic (.jpg or .png format) per month depicting the early and late per period values from the schedule
-

- Provide a summary cumulative ‘S-Curve’ cost-loading graphic (.jpg or .png format) per month depicting both the early and late curves from the schedule.
- Describe in detail, including reasons, for any changes to cost-loading since previous submission
- Provide summary information from monthly update Project Spending Report (PSR)
  - Latest MassDOT Estimate # and Requisition Date
  - PSR Date
  - PSR Cumulative Total to Date
  - PSR Cumulative Percentage to Date

8. **Resource Loading Section:**

- Provide peak labor head count forecast utilizing the Early and Late Dates.
- Generate/provide a summary monthly average labor hours-loading histogram or line graphic (.jpg or .png) depicting the early and late per period values from the schedule.
- Generate/provide details on equipment usage requirements, especially large equipment movements for the upcoming schedule period.

9. **Response to Comments Section:**

- Include a snapshot of the previous comment which includes the name of the MassDOT Schedule Review Report Section, along with Contractor Responses to each comment.
    - All Open Review Comments should be listed until closed in a subsequent Schedule Review
-

# Design-Build Progress Update Narrative Template – Type C Schedule

- Preliminary Section:**

**Schedule Submittal Identification:** Update Period: MMMM YYYY

Data Date: MM/DD/YYYY

Schedule File Name: *Contract#-Project# - Town(s) – UPxxRxx\_DD YYYY-MM-DD.xer*

Previous Schedule File Name: *(Insert Name of previous schedule current schedule is based upon)*

### 3-Month Schedule Submittal Log

| Schedule              | File Name           | Data Date | Date Submitted by Design Builder | Date Review Returned to Design Builder (Outcome) |
|-----------------------|---------------------|-----------|----------------------------------|--|
| Progress Update-15    | Cxxxxxx UP15.xer    | 4/12/2023 | 4/23/2023                        | 4/28/2023 (rejected)                             |
| Progress Update-15R01 | Cxxxxxx UP15R01.xer | 4/12/2023 | 5/5/2023                         | 5/15/2023 (accepted)                             |
| Progress Update-16    | Cxxxxxx UP16.xer    | 5/12/2023 | 5/23/2023                        | 5/28/2023 (accepted)                             |
| Progress Update-17    | Cxxxxxx UP17.xer    | 6/12/2023 | 6/23/2023                        | pending  |

### Schedule Milestone Chart

The table below depicts Contractual and Interim milestone activities utilized in the Schedule:

| MILESTONE ANALYSIS |                             |                      |                  |                         |                        |                                     |                                     |
|--------------------|-----------------------------|----------------------|------------------|-------------------------|------------------------|-------------------------------------|-------------------------------------|
| DOT Milestone #    | Milestone Description       | Schedule Activity ID | Contractual Date | Previous Submittal Date | Current Submittal Date | Current Variance to Contract (Days) | Current Variance to Previous (Days) |
| MS#00              | Notice to Proceed           | Cxxxxxx-1000         | 1/12/2022        | 1/12/2022               | 1/12/2022              | 0                                   | 0                                   |
| MS#03              | Full Beneficial Use         | Cxxxxxx-MS03         | 2/28/2026        | 2/28/2026               | 3/15/2026              | (15)                                | (15)                                |
| MS#02              | Substantial Completion      | Cxxxxxx-MS02         | 3/21/2026        | 3/21/2026               | 4/5/2026               | (15)                                | (15)                                |
| MS#01              | Contractor Field Completion | Cxxxxxx-MS01         | 4/26/2026        | 4/26/2026               | 5/11/2026              | (15)                                | (15)                                |

### 1. Narrative Section:

- Description of Current Sequence of Work and any Changes to Sequence Section:

*Example: Utility enabling work along Main Street has been completed, and the utility companies have mobilized and are performing pole relocations. Curbing along Main Street was planned to start the first week of July, however, due to the Utility Pole relocations, the curbing along Oak Street was moved to that time period, and the Main Street curbing will occur when Oak Street curbing was previously planned and when the Utility Pole relocation activities are completed....*

- Narrative Description/Verification of all Contractual Limitations of Operations:
  - Any changes to the Design Builder’s Means and Methods
  - Any changes to planned work schedule, including shifts, overtime, seasonal
  - Any new or changed environmental restrictions.
  - Any revisions to Utility/Third Party access and restrictions
- Detailed narrative discussion on any remaining Design work packages
- Narrative discussion on planned versus actual progress and variances from prior reporting
- Detail the work forecast to be accomplished during the upcoming schedule update period.
- Provide summary information from monthly update Project Spending Report (PSR)
  - Latest MassDOT Estimate # and Requisition Date
  - PSR Date
  - PSR Cumulative Total to Date
  - PSR Cumulative Percentage to Date

- Discuss all ongoing long-lead procurement activities, including fabrication status and forecast site delivery dates.
- Provide information on any major resources/equipment utilized during the current update period
- Provide information on any major resources/equipment to be utilized in the next update period
- Discuss any issues relating to resources (i.e. shortages, supply chain issues, labor issues, etc.)
- Discuss any Extra Work and/or Change Orders that have been incorporated into the schedule since the previous reporting period
- Discuss any issues that have occurred within the update period that have the potential to impact the Project schedule.
- Discuss any delays to the schedule, whether a formal ‘Notice of Delay’ have been submitted or not.
- Describe any ‘Notices of Delay’ formally submitted during the schedule update period.
  - Detailed description of effects on the project’s critical path due to the actual/perceived delay
- Discuss any Non-Conformance Reports (NCRs) or Deficiency Reports (DR) issued during the update period, along with mitigation measures being undertaken.
- Detail any Utility/Third Party Notifications that were issued during the schedule update period.
- Detail any Utility/Third Party Notifications planned to be issued in the upcoming schedule update period.
- Detail critical responses from MassDOT required, including need dates, to maintain the submitted schedule.
- Discuss any considerations that may improve schedule outcome

2. **Calendars Section:**

- Identification/confirmation that all calendar settings extend 3-years beyond CFC.
- Discuss any changes to existing calendars or added calendars.

3. **Constraints/Logic Section:**

- Description of, and reasons for, any changes to logic since previous submission
- To “Correct out-of-sequence logic” is not a sufficient description or reason

4. **Project Scope Section:**

- Design Builder’s description of compliance with the timing of the access restraints
- List any activities added, deleted or changed since the previous schedule submission, including reasons for changes.
- Discuss current work being performed by subcontractors

5. **Milestones Section:**

- Discuss any changes to Milestones from previous submission

6. **Critical Path Section:**

- A detailed, **written summary** of the critical path, in a form that a person not familiar with the project can understand, that may be supported by snapshots should the scheduler choose. Copying and pasting tables exported from the Schedule are not acceptable. The written summary should detail what priority submittals, RFI responses, Third-Party scope are most critical to maintaining the schedule.
  - Confirmation that the late finish date shown on the Schedule is the same as the specified Contract Completion.
-

- Identification of the percentage of all unfinished activities on the Critical/Longest Path to all unfinished activities within the schedule.
  - A detailed, **written summary** of additional “near critical” (<20 days float) path(s) including required submittals, MassDOT responses or third-party scope that need to be addressed in a timely manner to avoid the path(s) becoming critical.
7. **Response to Comments Section:**
- Include a snapshot of the previous comment which includes the name of the MassDOT Schedule Review Report Section, along with Contractor Responses to each comment.
    - All Open Review Comments should be listed until closed in a subsequent Schedule Review
-

# Design-Bid-Build Progress Update Narrative Template – Type A&B Schedule

- Preliminary Section:**

**Schedule Submittal Identification:** Update Period: MMMM YYYY

Data Date: MM/DD/YYYY

Schedule File Name: *Contract#-Project# - Town(s) – UPxxRxx\_DD YYYY-MM-DD.xer*

Previous Schedule File Name: *(Insert Name of previous schedule current schedule is based upon)*

### 3-Month Schedule Submittal Log

| Schedule              | File Name           | Data Date | Date Submitted by Contractor | Date Review Returned to Contractor (Outcome) |
|-----------------------|---------------------|-----------|------------------------------|--|
| Progress Update-15    | Cxxxxxx UP15.xer    | 4/12/2023 | 4/23/2023                    | 4/28/2023 (rejected)                         |
| Progress Update-15R01 | Cxxxxxx UP15R01.xer | 4/12/2023 | 5/5/2023                     | 5/15/2023 (accepted)                         |
| Progress Update-16    | Cxxxxxx UP16.xer    | 5/12/2023 | 5/23/2023                    | 5/28/2023 (accepted)                         |
| Progress Update-17    | Cxxxxxx UP17.xer    | 6/12/2023 | 6/23/2023                    | pending                                      |

### Schedule Milestone Chart

The table below depicts Contractual and Interim milestone activities utilized in the Schedule:

#### MILESTONE ANALYSIS

| DOT Milestone # | Milestone Description       | Schedule Activity ID | Contractual Date | Previous Submittal Date | Current Submittal Date | Current Variance to Contract (Days) | Current Variance to Previous (Days) |
|-----------------|-----------------------------|----------------------|------------------|-------------------------|------------------------|-------------------------------------|-------------------------------------|
| MS#00           | Notice to Proceed           | Cxxxxxx-1000         | 1/12/2022        | 1/12/2022               | 1/12/2022              | 0                                   | 0                                   |
| MS#03           | Full Beneficial Use         | Cxxxxxx-MS03         | 2/28/2026        | 2/28/2026               | 3/15/2026              | (15)                                | (15)                                |
| MS#02           | Substantial Completion      | Cxxxxxx-MS02         | 3/21/2026        | 3/21/2026               | 4/5/2026               | (15)                                | (15)                                |
| MS#01           | Contractor Field Completion | Cxxxxxx-MS01         | 4/26/2026        | 4/26/2026               | 5/11/2026              | (15)                                | (15)                                |

### 1. Narrative Section:

- Description of Current Sequence of Work and any Changes to Sequence Section:

*Example: Utility enabling work along Main Street has been completed, and the utility companies have mobilized and are performing pole relocations. Curbing along Main Street was planned to start the first week of July, however, due to the Utility Pole relocations, the curbing along Oak Street was moved to that time period, and the Main Street curbing will occur when Oak Street curbing was previously planned and when the Utility Pole relocation activities are completed....*

- Narrative Description/Verification of all Contractual Limitations of Operations:
  - Any changes to the Contractor’s Means and Methods
  - Any changes to planned work schedule, including shifts, overtime, seasonal
  - Any new or changed environmental restrictions.
  - Any revisions to Utility/Third Party access and restrictions
- Narrative discussion on planned versus actual progress and variances from prior reporting
- Detail the work forecast to be accomplished during the upcoming schedule update period.
- Discuss all ongoing long-lead procurement activities, including fabrication status and forecast site delivery dates.
- Discuss any Extra Work and/or Change Orders that have been incorporated into the schedule since the previous reporting period
- Discuss any issues that have occurred within the update period that have the potential to impact the Project

schedule.

- Discuss any delays to the schedule, whether a formal ‘Notice of Delay’ have been submitted or not.
- Describe any ‘Notices of Delay’ formally submitted during the schedule update period.
  - Detailed description of effects on the project’s critical path due to the actual/perceived delay
- Detail any Utility/Third Party Notifications that were issued during the schedule update period.
- Detail any Utility/Third Party Notifications planned to be issued in the upcoming schedule update period.
- Detail critical responses from MassDOT required, including need dates, to maintain the submitted schedule.
- Discuss any considerations that may improve schedule outcome

2. **Calendars Section:**

- Identification/confirmation that all calendar settings extend 3-years beyond CFC.
- Discuss any changes to existing calendars or added calendars.

3. **Constraints/Logic Section:**

- Description of, and reasons for, any changes to logic since previous submission
- To “Correct out-of-sequence logic” is not a sufficient description or reason

4. **Project Scope Section:**

- Contractor’s Description of compliance with the timing of the access restraints
- List any activities added, deleted or changed since the previous schedule submission, including reasons for changes.
- Discuss current work being performed by subcontractors

5. **Milestones Section:**

- Discuss any changes to Milestones from previous submission

6. **Critical Path Section:**

- A detailed, **written summary** of the critical path, in a form that a person not familiar with the project can understand, that may be supported by snapshots should the scheduler choose. Copying and pasting tables exported from the Schedule are not acceptable. The written summary should detail what priority submittals, RFI responses, Third-Party scope are most critical to maintaining the schedule.
- Confirmation that the late finish date shown on the Schedule is the same as the specified Contract Completion.
- Identification of the percentage of all unfinished activities on the Critical/Longest Path to all unfinished activities within the schedule.
- A detailed, **written summary** of additional “near critical” (<20 days float) path(s) including required submittals, MassDOT responses or third-party scope that need to be addressed in a timely manner to avoid the path(s) becoming critical.

7. **Cost Loading Section:**

- Provide a summary cost-loading Histogram graphic (.jpg or .png format) per month depicting the early and late per period values from the schedule
  - Provide a summary cumulative ‘S-Curve’ cost-loading graphic (.jpg or .png format) per month depicting both the early and late curves from the schedule.
-

- Describe in detail, including reasons, for any changes to cost-loading since previous submission
- Provide summary information from monthly update Project Spending Report (PSR)
  - Latest MassDOT Estimate # and Requisition Date
  - PSR Date
  - PSR Cumulative Total to Date
  - PSR Cumulative Percentage to Date

8. **Resource Loading Section:**

- Provide peak labor head count forecast utilizing the Early and Late Dates.
- Generate/provide a summary monthly average labor hours-loading histogram or line graphic (.jpg or .png) depicting the early and late per period values from the schedule.
- Generate/provide details on equipment usage requirements, especially large equipment movements for the upcoming schedule period.

9. **Response to Comments Section:**

- Include a snapshot of the previous comment which includes the name of the MassDOT Schedule Review Report Section, along with Contractor Responses to each comment.
  - All Open Review Comments should be listed until closed in a subsequent Schedule Review

## Design-Bid-Build Progress Update Narrative Template – Type C Schedule

- Preliminary Section:**

**Schedule Submittal Identification:** Update Period: MMMM YYYY

Data Date: MM/DD/YYYY

Schedule File Name: *Contract#-Project# - Town(s) – UPxxRxx\_DD YYYY-MM-DD.xer*

Previous Schedule File Name: *(Insert Name of previous schedule current schedule is based upon)*

### 3-Month Schedule Submittal Log

| Schedule              | File Name           | Data Date | Date Submitted by Contractor | Date Review Returned to Contractor (Outcome) |
|-----------------------|---------------------|-----------|------------------------------|--|
| Progress Update-15    | Cxxxxxx UP15.xer    | 4/12/2023 | 4/23/2023                    | 4/28/2023 (rejected)                         |
| Progress Update-15R01 | Cxxxxxx UP15R01.xer | 4/12/2023 | 5/5/2023                     | 5/15/2023 (accepted)                         |
| Progress Update-16    | Cxxxxxx UP16.xer    | 5/12/2023 | 5/23/2023                    | 5/28/2023 (accepted)                         |
| Progress Update-17    | Cxxxxxx UP17.xer    | 6/12/2023 | 6/23/2023                    | pending                                      |

### Schedule Milestone Chart

The table below depicts Contractual and Interim milestone activities utilized in the Schedule:

| MILESTONE ANALYSIS |                             |                      |                  |                         |                        |                                     |                                     |
|--------------------|-----------------------------|----------------------|------------------|-------------------------|------------------------|-------------------------------------|-------------------------------------|
| DOT Milestone #    | Milestone Description       | Schedule Activity ID | Contractual Date | Previous Submittal Date | Current Submittal Date | Current Variance to Contract (Days) | Current Variance to Previous (Days) |
| MS#00              | Notice to Proceed           | Cxxxxxx-1000         | 1/12/2022        | 1/12/2022               | 1/12/2022              | 0                                   | 0                                   |
| MS#03              | Full Beneficial Use         | Cxxxxxx-MS03         | 2/28/2026        | 2/28/2026               | 3/15/2026              | (15)                                | (15)                                |
| MS#02              | Substantial Completion      | Cxxxxxx-MS02         | 3/21/2026        | 3/21/2026               | 4/5/2026               | (15)                                | (15)                                |
| MS#01              | Contractor Field Completion | Cxxxxxx-MS01         | 4/26/2026        | 4/26/2026               | 5/11/2026              | (15)                                | (15)                                |

### 1. Narrative Section:

- Description of Current Sequence of Work and any Changes to Sequence Section:
 

*Example: Utility enabling work along Main Street has been completed, and the utility companies have mobilized and are performing pole relocations. Curbing along Main Street was planned to start the first week of July, however, due to the Utility Pole relocations, the curbing along Oak Street was moved to that time period, and the Main Street curbing will occur when Oak Street curbing was previously planned and when the Utility Pole relocation activities are completed....*
- Narrative Description/Verification of all Contractual Limitations of Operations:
  - Any changes to the Contractor’s Means and Methods
  - Any changes to planned work schedule, including shifts, overtime, seasonal
  - Any new or changed environmental restrictions.
  - Any revisions to Utility/Third Party access and restrictions
- Narrative discussion on planned versus actual progress and variances from prior reporting
- Detail the work forecast to be accomplished during the upcoming schedule update period.
- Provide summary information from monthly update Project Spending Report (PSR)
  - Latest MassDOT Estimate # and Requisition Date
  - PSR Date
  - PSR Cumulative Total to Date
  - PSR Cumulative Percentage to Date
- Discuss all ongoing long-lead procurement activities, including fabrication status and forecast site delivery

dates.

- Provide information on any major resources/equipment utilized during the current update period
- Provide information on any major resources/equipment to be utilized in the next update period
- Discuss any issues relating to resources (i.e. shortages, supply chain issues, labor issues, etc.)
- Discuss any Extra Work and/or Change Orders that have been incorporated into the schedule since the previous reporting period
- Discuss any issues that have occurred within the update period that have the potential to impact the Project schedule.
- Discuss any delays to the schedule, whether a formal ‘Notice of Delay’ have been submitted or not.
- Describe any ‘Notices of Delay’ formally submitted during the schedule update period.
  - Detailed description of effects on the project’s critical path due to the actual/perceived delay
- Detail any Utility/Third Party Notifications that were issued during the schedule update period.
- Detail any Utility/Third Party Notifications planned to be issued in the upcoming schedule update period.
- Detail critical responses from MassDOT required, including need dates, to maintain the submitted schedule.
- Discuss any considerations that may improve schedule outcome

## 2. **Calendars Section:**

- Identification/confirmation that all calendar settings extend 3-years beyond CFC.
- Discuss any changes to existing calendars or added calendars.

## 3. **Constraints/Logic Section:**

- Description of, and reasons for, any changes to logic since previous submission
- To “Correct out-of-sequence logic” is not a sufficient description or reason

## 4. **Project Scope Section:**

- Contractor’s Description of compliance with the timing of the access restraints
- List any activities added, deleted or changed since the previous schedule submission, including reasons for changes.
- Discuss current work being performed by subcontractors

## 5. **Milestones Section:**

- Discuss any changes to Milestones from previous submission

## 6. **Critical Path Section:**

- A detailed, **written summary** of the critical path, in a form that a person not familiar with the project can understand, that may be supported by snapshots should the scheduler choose. Copying and pasting tables exported from the Schedule are not acceptable. The written summary should detail what priority submittals, RFI responses, Third-Party scope are most critical to maintaining the schedule.
  - Confirmation that the late finish date shown on the Schedule is the same as the specified Contract Completion.
  - Identification of the percentage of all unfinished activities on the Critical/Longest Path to all unfinished activities within the schedule.
  - A detailed, **written summary** of additional “near critical” (<20 days float) path(s) including required
-

submittals, MassDOT responses or third-party scope that need to be addressed in a timely manner to avoid the path(s) becoming critical.

7. **Response to Comments Section:**

- Include a snapshot of the previous comment which includes the name of the MassDOT Schedule Review Report Section, along with Contractor Responses to each comment.
    - All Open Review Comments should be listed until closed in a subsequent Schedule Review
-

**ATTACHMENT H: SAMPLE SHORT-TERM CONSTRUCTION SCHEDULE**



## DOCUMENT CHANGE CONTROL

| Document Version | Author          | Date           | Revision Comments   |
|------------------|-----------------|----------------|---|
| Draft (CTKv0)    | Justin Stuart   | 09/21/2009     | Draft   |
| Rev 1 (CTKv1)    | Justin Stuart   | 10/01/2009     | Draft Comments Addressed  |
| Rev1.1(CTKv1.1)  | Dennis Lucey    | 3/17/10        | Revisions   |
| Rev1.2 (CTKv1.2) | Dennis Lucey    | 4/5/10         | Major revisions to Cost & Resources   |
| Rev1.3, 1.4      |                 |                | No edits to word document   |
| Rev1.5 (CSTv1.5) | Dennis Lucey    | December 2010  | Modified Paving Calendar, Set Calendar to project level, Added disclaimer, Ready to post to DOT Web     |
| Rev1.6 (CSTv1.5) | Dennis Lucey    | January 2011   | Reset items (calendar, codes, layouts) to Project Level, Enhance WBS, etc. Layouts to match 601 course. |
| Rev2.0 (CSTv2.0) | T. Chris Seavey | September 2023 | Revised and Updated   |

## DOCUMENT REVIEW AND APPROVAL

| Document Version | Reviewer      | Date       | Comments |
|------------------|---------------|------------|----------|
| Rev1             | Karim Zaklama | 11/07/2009 | None     |
| Rev1.2           | Karim Zaklama | 3/31/10    | None     |
| Rev2.0           | Anne Gorczyca |            |          |