



HOWARD STEIN HUDSON

Engineers + Planners

PSE DESIGN SUBMISSION

CONTRACT TIME DETERMINATION

Main Street (Route 28) From George Ryder Road to Barn Hill Road

Chatham, Massachusetts
Project File No. 606596

Prepared for

Massachusetts Department of Transportation

Prepared by

Howard Stein Hudson

11 Beacon Street, Suite 1010

Boston, MA 02108

May 8, 2017



1. Executive Summary

1.1 CONTRACT TIME DETERMINATION (CTD) SUMMARY

Howard Stein Hudson (HSH) conducted a Contract Time Determination study (CTD) for the proposed improvements to Main Street (Route 28) from George Ryder Road to Barn Hill Road (606596) in Chatham, Massachusetts.

The objective of the project is to improve access and safety for all road users along an approximately 1,700 foot segment of Main Street (Route 28) between George Ryder Road and Barn Hill Road. The project will construct two modern single lane roundabouts at the intersections of George Ryder Road and Barn Hill Road with Main Street. Along Main Street, between George Ryder Road and Barn Hill Road, the project would eliminate the existing two-way left-turn lane and provide one travel lane in each direction with 5-foot shoulders on either side of the roadway, a 10-foot multi-use path with a 5-foot green buffer on the north side of the roadway and a sidewalk with a green buffer on the south side. The project will provide compliant pedestrian access ramps at all intersections, improvements to the drainage system, new ornamental light fixtures, and other streetscape improvements.

The CTD schedule was prepared using Oracle Primavera P6, version 15.1. The schedule is developed using Critical Path Method (CPM) and is intended to demonstrate a reasonable approach to completing the project in the time indicated. **The CTD should not be used as a construction schedule.** The schedule considers most critical elements of the work but cannot account for all items.

The project is located on Cape Cod within massDOT District 5 and is therefore subject to a summer moratorium, typically from Memorial Day to Labor Day. Projects in District 5 can be challenging to construct in a timely manner due to the summer moratorium, the winter moratorium, planting restrictions and paving restrictions. Considering the importance of the project roadway to businesses and local travel, HSH has developed a schedule that includes measures to accelerate the work. The schedule proposes an early start for the utility work early in the fall of 2018 and continuing through the winter. The schedule also combines multiple work zones from the Temporary Traffic Control Plans (TTCP) and assumes multiple contractor crews to advance the work in key stages. Finally, we suggest a minor delay to the start of the summer moratorium until public school is out of session in order to maximize construction when weather conditions are optimal.

These efforts demonstrate a workflow that will allow the project to be completed in approximately two construction seasons. Given the concerns of the project stakeholders HSH recommends that measures to accelerate the project be considered.



The following table indicates the 6 project milestones developed for the CTD.

Milestones	Act ID	Schedule Date
Advertisement Date	ADV	3/17/2018
Bid Opening	BID OP	7/15/2018
Award	AWD	8/14/2018
Notice to Proceed	NTP	9/13/2018
Contractor Field Completion (CFC)	MS01	2/4/2021
Substantial Completion/Full Beneficial Use (SC/FBU)	MS02	11/6/2020
NTP to MS01	-	876
NTP to MS02	-	786

As the attached Gantt chart indicates, the utility relocation on the project is represents the critical path for the project. **HSH recommends that the District consider this project for District Initiated Early Utility Relocation.** We also recommend the District consider other means to accelerate the work.

The items listed below are restrictions that were used to develop the schedule and if they change, the schedule may be impacted.

- In order to prevent delays associated with the proposed completion date slipping, the NTP should be issued no later than September 13, 2018;
- Early utility NTP should be issued on or about August 14, 2018;
- The Cape Cod area summer work moratorium from Memorial Day to Labor Day (assumed June 30th to Labor Day); and
- Staged work to maintain travel lanes and access to businesses to the greatest extent possible.



2. Purpose

The schedule and narrative are developed for the sole use of MassDOT and should not be shared with the DB Entity/Contractor. The CTD is prepared using Critical Path Method (CPM) scheduling techniques to estimate the duration of the construction portion of the project and is generated to demonstrate that there is at least one reasonable/buildable plan to finish the project within the timeframe specified. This CTD considers most/critical constructability aspects as part of this planning effort, however, not all constructability aspects have been drafted/commented upon as part of this CTD. This CTD schedule is based on the 100% design and is intended to provide a conceptual baseline comparison of what is a reasonable and achievable duration for the construction of the project.

3. Project Description

MassDOT has established a preliminary cost estimate of \$3,200,000 for Project #606596, which includes but is not limited to the following gross civil construction activities:

- Roadway widening;
- Storm water management improvements;
- Utility relocation;
- Installation of a shared use path; and
- New pavement, pavement markings and signage.

4. References

The CTD was developed using information contained in the following documents:

- 1) MassDOT Project Description - Project 606596;
- 2) 100% Design Resubmission drawing set dated February 21, 2017;
- 3) Draft Project Utilities Coordination (PUC) Form dated April 6, 2017; and
- 4) Project Preliminary Design Estimate dated February 16, 2017 and based on 100% Design.

5. Methodology

The project scope was separated into approximately 130 discrete activities. The duration of each activity was calculated based on the quantity take offs, recent, relevant projects and crew



assumptions. After defining the activities which represent the scope of the project, logical relationships between the activities were created to reflect the sequence in which the work could be performed. The schedule was then calculated based on the activity durations, and the sequence of the activities. The application of the resources over time was evaluated based on the number of activities worked during the construction of each phase. Below is a description of the project phases used for developing the schedule.

ADVERTISE, AWARD & DESIGN:

- The anticipated Advertisement date for this project is currently forecasted to be March 17, 2018.

UTILITY PHASE 1: FORCE ACCOUNT UTILITIES

- Verizon install 14 new utility poles, conduit, build new overhead fiber and cables and wreck-out existing plant;
- Eversource—install new conduit, manholes, handholes and overhead power cables. Wreck-out old cables;
- Comcast—Build new overhead cable and wreck-out old cable. The force account for this effort has not been finalized and;
- Open Cape—relocate existing fiber strand to new utility poles.

CONSTRUCTION PHASE 1: RECONSTRUCTION OF MAIN STREET (TTCP 41-42)

Stage 1

- Demo existing sidewalk and curb line on South side of Main Street between the roundabouts
- Install all proposed drainage structures and street lights
- Install proposed curb, HMA sidewalk, and concrete wheelchair ramps

Stage 2

- Demo existing sidewalk and curb line on North side of Main Street between the roundabouts
- Install all proposed drainage structures and street lights
- Install proposed curb, HMA sidewalk, and concrete wheelchair ramps

CONSTRUCTION PHASE 2: CONSTRUCTION OF WEST ROUNDABOUT (TTCP 43-48)

Stage 1

- Demo existing sidewalk and curb line on South side of Main Street and on George Ryder Road South from the West most limit of work to the West most completed work from Phase 1
- Install all proposed drainage structures and street lights
- Install proposed curb, HMA sidewalk, and concrete wheelchair ramps, and stamped concrete buffers



Stage 2

- Demo existing sidewalk and curb line and complete site work for roadway expansion on North side of Main Street to the Western most completed work from phase 1 and on George Ryder Road Northeast to the limit of work
- Install all proposed drainage structures and street lights
- Install proposed curb, HMA sidewalk, and concrete wheelchair ramps, and stamped concrete buffers

Stage 3

- Demo existing sidewalk and curb line and complete site work for roadway expansion on North side of Main Street from the limit of work to the proposed roundabout and on George Ryder Road Northwest to the limit of work
- Install all proposed drainage structures and street lights
- Install proposed curb, HMA sidewalk, and concrete wheelchair ramps, and stamped concrete buffers

Stage 4

- Install proposed median islands on each approach of the proposed West roundabout.
- Install proposed landscape plantings

Stage 5

- Demo area for proposed West roundabout
- Install proposed curb and stamped concrete for roundabout
- Install proposed landscape plantings

Stage 6

- Complete full depth pavement reconstruction where proposed to the end of completed work from Phase 1

CONSTRUCTION PHASE 3: (TTCP 49-54)

Stage 1

- Demo existing sidewalk and curb line on Barn Hill Road West to Main Street
- Install all proposed drainage structures and street lights
- Install proposed curb, HMA sidewalk, and concrete wheelchair ramps
- Install loam and seed and proposed landscape plantings

Stage 2

- Demo existing sidewalk and curb line on Barn Hill Road East to Main Street South Eastern most limit of work



- Install all proposed drainage structures
- Install proposed curb, HMA sidewalk, and concrete wheelchair ramps

Stage 3

- Demo existing sidewalk and curb line on Main Street North from the work completed in Phases 1 and 2 to the Eastern most limit of work
- Install all proposed drainage structures
- Install proposed curb, HMA sidewalk, and concrete wheelchair ramps

Stage 4

- Install proposed median islands on each approach of the proposed East roundabout.

Stage 5

- Demo area for proposed East roundabout
- Install proposed curb and stamped concrete for roundabout

CONSTRUCTION PHASE 4: FINAL PAVEMENT

- Raise all castings and structures to final pavement elevation
- Cold plane the roadway in proposed areas
- Complete final surface course within the limits of work
- Install street lights project-wide
- Install landscaping project-wide

6. Critical Path

For the purposes of this CTD, a project's critical path is the longest continuous path of activities through the project. The critical path determines the completion date of the project. A delay of any of the activities on the critical path will delay the completion date of the project. As shown in the schedule, the critical path for the project is the utility work, specifically the new Verizon utility poles and associated cabling.

7. Assumptions

The following assumptions were used in the development of this schedule as shown:

7.1 GENERAL

- All work will be performed according to a 5 day 40 hour standard workweek, which includes Massachusetts state holidays as listed on the DOT web site and shut down of work during



winter. Non public utilities are not subject to winter shut down and are expected to continue work through the winter. MassDOT calendars 1, 4, 10, 11, 12 and 14 were used for scheduling;

- No work is performed from approximately December 15 through March 15 for the winter moratorium except for non-public utilities and project closeout activities. Paving and landscaping activities are subject to their respective calendars;
- The project will be subject to District 5 (Cape Cod area) summer moratorium where work will not be permitted from June 30th to Labor Day;
- Labor, equipment and materials will be available when and as needed;
- Timely receipt and review for submittals are shown in the schedule; and
- The schedule assumes one primary work area at a time except for Phase 1, Stage 1 and Phase 2 Stage 2.

7.2 MAINTENANCE OF TRAFFIC

The schedule has been developed as per the TTCP in the design documents. As this project proposes improvements along Route 28, an area with local businesses, smart work zone technologies may be advantageous. Real-time traffic information, portable changeable message signs and corridor information that can be accessed via the internet can inform the public and temper driver expectations. At a minimum, the contract documents should include detailed requirements for a robust public outreach effort from the contractor.

8. UTILITY COORDINATION

8.1 SCOPE OF UTILITY WORK

The PUC form (attached) has been utilized to develop many access restraints and the CTD. This will be included in the contract bid documents and will be the basis of the Contractors baseline schedule. The utility relocation for this project includes the relocation of 14 utility poles to accommodate roadway reconstruction. The work includes relocating all the overhead cabling on the utility poles.

8.2 ACCESS RESTRAINTS

The only known access restraints are the winter moratorium, the summer moratorium and the staged work indicated in the TTCP.



9. COST

The current available cost and quantity estimates were utilized to derive the activity and schedule duration. The total cost was \$3,200,000.00

10. SCHEDULE CONTINGENCY

HSH has determined that the project can be completed in the duration provided in Section 1 of this report. HSH believes these durations are reasonable and achievable. Although weather delays are not predictable, HSH has utilized appropriate massDOT calendars that include lost work days for weather.

11. LIMITATIONS OF OPERATIONS

Operations will be limited by seasonal weather restrictions, maintenance of traffic, utility work (see previous section), access to neighboring businesses and residences, etc.

11.1 SEASONAL RESTRICTIONS

11.1.1 LANDSCAPING

■ Landscape Calendar #13:

- HSH will use the following summary schedule for most landscaping:
 - Planting can occur during the Spring Season (April 15 to June 1) and Fall Season (August 15 to November 1) subject to the summer moratorium.
- MHD Standard Specifications -Ed. 1988, Section 771.60, Excerpt below:
 - Balled and burlapped plants may be planted in the spring until June 15 and in the fall from August 15 to November 1.
 - Container grown plants may be planted at any time the ground is not frozen (provided specified minimum time of growth and root development has been met).
 - Bare rooted plants shall be planted only from the time ground thaws in spring until May 15.

11.1.2 WINTER INEFFICIENCY

The project will not be active during the winter moratorium.

11.1.3 SUMMER MORATORIUM



In the Cape Cod region of massDOT District 5, a summer moratorium is imposed on roadway project from Memorial Day to Labor Day. HSH suggests that this moratorium begin on or about June 30th to coincide with the start of the typical vacation period. Tourism and its associated traffic are most active during school vacation and it assumed work during the week can still occur prior to school dismissal. For the project schedule, the summer moratorium is assumed to begin annually on June 10th.

11.1.4 CONCRETE RESTRICTIONS

- Per Supplemental Spec, Section 901
 - Minimum cure duration before adding load: 7 calendar days

11.2 TRAFFIC CONTROL

The contractor is required to maintain, to the greatest extent practical, the same number of travel lanes as exist today. Periodic lane closures, traffic shifts and pedestrian detours will likely be required and will be coordinated through the massDOT resident engineer. It is assumed that that limited weekend and/or night work may also be required to maintain the schedule.

12. ACCELERATION SCHEDULES

For the baseline schedule, construction sequences will proceed in a linear fashion utilizing one set of equipment/crews (excavators, forms, etc.) in the most cost effective manner. As the schedule indicates, the most beneficial acceleration to the project is the utility pole relocation and the associated activities. The project schedule can also be reduced if proximate activities and stages are combined and additional resources are applied.

As shown in the attached schedule, initiating early utility work and using additional resources can reduce the schedule of the roadwork to two construction seasons. Reducing the duration of it will mitigate impacts to the public and may reduce project cost.



13. Attachments

CONSTRUCTION SCHEDULE

PROJECT UTILITY COORDINATION FORM



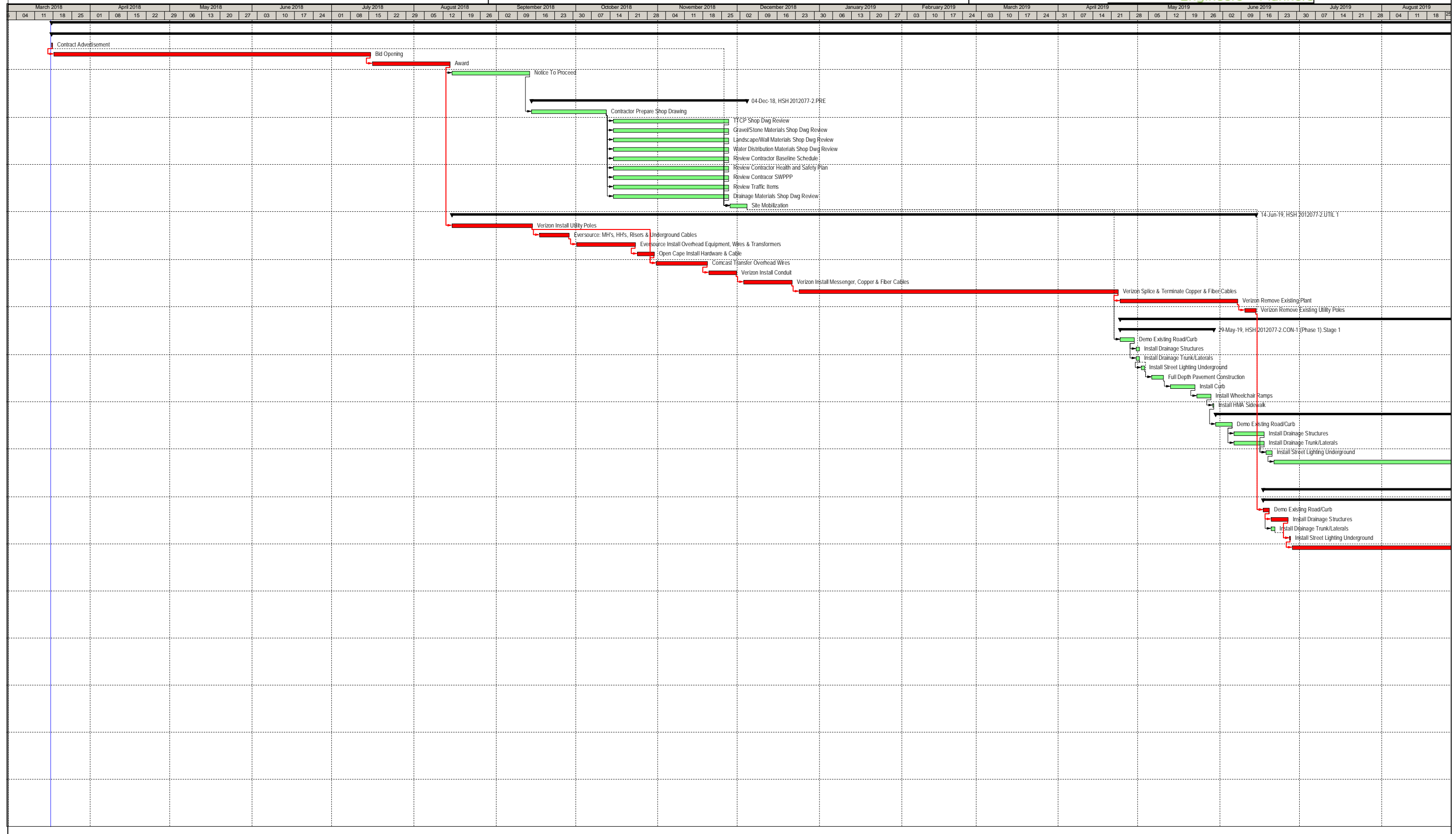
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BASELINE CONSTRUCTION SCHEDULE

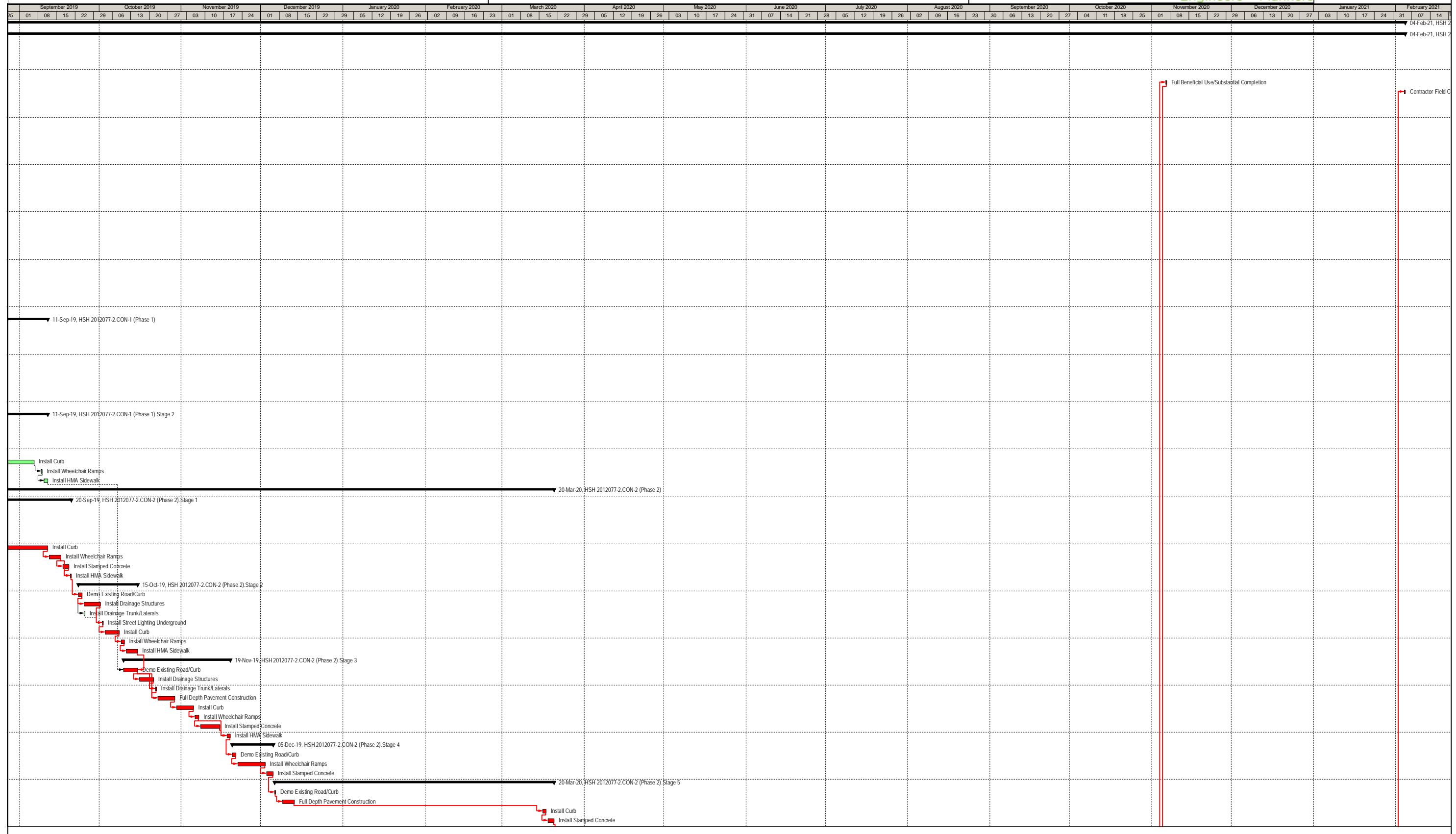
**606596 CHATHAM
MAIN STREET (ROUTE 28) FROM GEORGE RYDER ROAD
TO BARN HILL ROAD**

**PSE Contract Time Determination
Baseline Schedule
May 8, 2017**



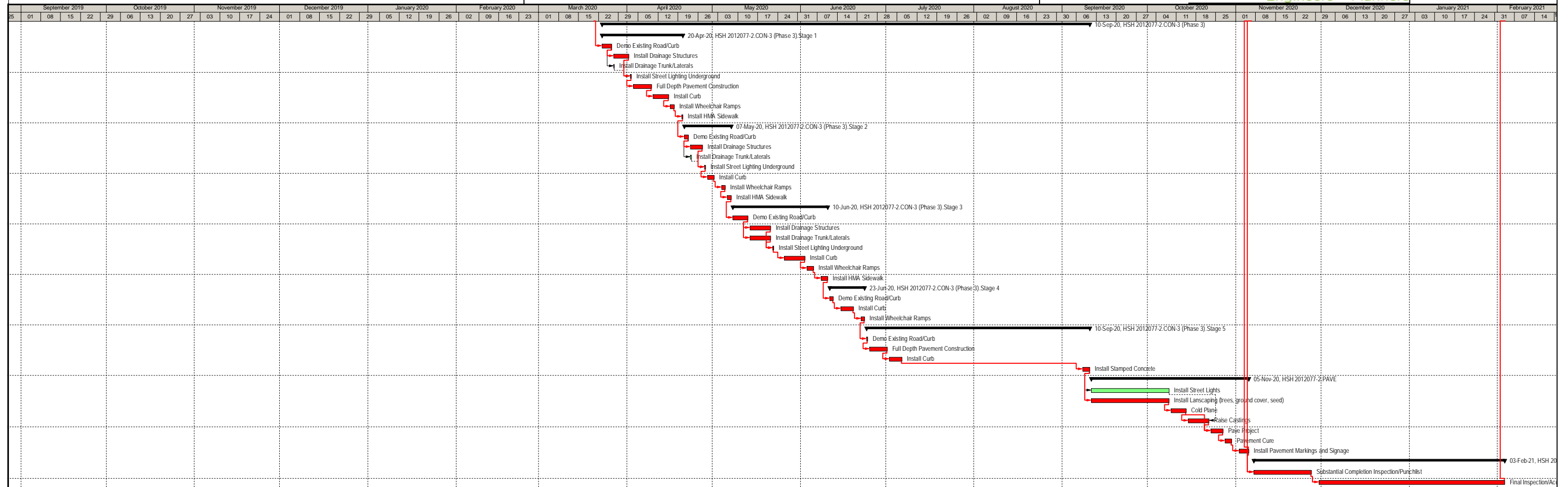
**606596 CHATHAM
 MAIN STREET (ROUTE 28) FROM GEORGE RYDER ROAD
 TO BARN HILL ROAD**

**PSE Contract Time Determination
 Baseline Schedule
 May 8, 2017**



**606596 CHATHAM
MAIN STREET (ROUTE 28) FROM GEORGE RYDER ROAD
TO BARN HILL ROAD**

**PSE Contract Time Determination
Baseline Schedule
May 8, 2017**





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PROJECT UTILITY COORDINATION FORM

DRAFT



Project Utilities Coordination (PUC) Form

CONTACTS AND GENERAL UTILITY INFORMATION

4/6/2017
Revision Date:

City/Town: Chatham	Project File #: 606596	PUC Completed by: CJL	Utility Pole Set: Verizon
Route/Street: Route 28 Roundabouts	Resident Engineer:	Mass DOT PM: Thomas Currier	Scheduled Ad Date: 9/30/2016
			Total Poles Relocated: 13

4/6/2017
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Consultant: Howard Stein Hudson			Contact: Thomas Stokes		Office #	Cell #	Email tstokes@hshassoc.com									
Utility Company	Contact	Office #	Cell #	Email	Scope, Budget, Duration Submitted		Reimbursement			Potential for District Initiated Early Relocation *		Utilities On Bridge/Structure		Utilities Underground (UG) /Aerial (OH)		
					Yes	No	Agreement	Non-Reimb'le	Notes	YES	NO	YES	NO	UG	OH	
Eversource-Electric	Steven Owens	(508) 441-5881		steven.owens@eversource.com	x		x					x		x		x
Verizon	Mike Kelley	(508) 884-4969		Michael.Kelley@verizon.com	x		x					x		x	x	x
Open Cape	Gary Farrenkopf	(508) 362-2224	(508) 524-5903	gary@opencape.org	x		x					x		x		x
Comcast	Kevin Rakos	(508) 760-3400	(617) 279-5655	Kevin_Rakos@cable.comcast.com		x	x					x		x	x	x
NGRID-Gas	Tommy Fang	(781) 907-2807	(617) 438-0718	Tommy.Fang@nationalgrid.com		N/A		x		Non-Participating Work for Gas Main Upgrades.		x		x	x	

Utility Relocation Notes for MassDOT Contractor
 Unless otherwise noted by Contract, the MassDOT Contractor is to provide the District Construction Office with 7 Calendar Days advance notification in order to validate the current progress and provide the required 30 Days advance notice-to-proceed for the first Utility - and each subsequent Utility. These advance notifications are to be identified in the Contractor's Schedules (Pre-Con preparation, Baseline, Subnets, and Updated/Monthly Schedules) as specified in Subsection 8.02 (for DBB Contracts) and/or Section 9 (of DB Contracts). Note: The durations included below do not include these lead-times. See Additional 'Important Basis notes for Contractor' - on last PUC Form page.

Additional notes:

Suggested Sequence of Relocation (Based on Consultant proposed construction staging)
 The sequence as detailed on the following pages is based on the consultants proposed staging plan. This information was compiled through meetings that included all of the utilities listed below along with the designer and the Town of Chatham. The information provided is the best available information prior to project advertisement.

PUC FORM - CONTINUED

Is 'enabling' (prep) work, by the Contractor, necessary prior to the start of the first series of utility relocations:	Yes	No
	X	
Has any of the Utility work been identified to work concurrently	Yes	No
	X	

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Stage	RESPONSIBLE PARTY C = Contractor U = Utility Co.	DESCRIPTION - Utility Relocation Phases, Tasks and Activities	Estimated Duration (Work Days) by Utilities (Lead time not included)	Concurrent / Exclusive Utility Work				Access Restraint & Limitations of Operations Notes	
				Contractor note: In planning and executing the work, the Access Restraints listed in the Special Provisions, takes precedence over the checklist in these 4 columns.				Should an AR be considered for the Contractor ?	
				Exclusive Utility on site Utility working with no other Utilities in vicinity	Concurrent Utilities Utility working with other Utilities on site	Contractor Off-Site No Contractor physical construction operations on-site (while Utility Contractor and Utility are working on-site - but NOT in the same vicinity)	Contractor Concurrent	Potential Access Restraint (Yes/No)	Reason/Note (optional)
Stage : 1	C	> Contractor to provide 30 day advance notice to all utilities. > Contractor to perform individual tree and stump removal work.							
Task: 1	u	UTILITY OPERATIONS - Overhead							
	u	Verizon							
	u	Grants and easements for new pole and anchor locations to be obtained before work can begin							
	u	Verizon set 14 Jointly Owned utility poles and associated anchors	22	X			X		
	u	Electric Co. to transfer all plant before CATV & Verizon can proceed							
	u	CATV to transfer all plant before Verizon can proceed							
	u	VZ contractor place conduit from MH3704 to UP1 Barn Hill Rd & UP770 Main St	5	X			X		
	u	VZ contractor provide splice pit, trench to new UP764, place conduit to new UP, restore area.	3	X			X		
	u	Verizon Line place all aerial strand & guying	5	X			X		
	u	Verizon Line place all aerial copper cables	3	X			X		
	u	Verizon Line place all riser copper cables	3	X			X		
	u	Verizon Line place all fiber cables	3	X			X		
	u	Verizon Splice all fiber cables	13	X			X		
	u	Verizon Splice all aerial copper cables	21	X			X		
	u	Verizon Splice all underground copper cables	10	X			X		
	u	Verizon Splice cut over all side leads	18	X			X		
	u	Verizon Splice all terminals (copper) and recon drops	7	X			X		
	u	Verizon Splice cut off all aerial copper cables to be removed	11	X			X		
	u	Verizon Splice cut off all underground copper cables to be removed	5	X			X		
	u	Verizon Line Transfer plant to new utility poles	6	X			X		
	u	Verizon Line remove all fiber cables	3	X			X		
	u	Verizon Line remove all aerial copper cables & associated plant	6	X			X		
	u	Verizon Line remove all underground copper cables	1	X			X		
	u	Verizon Line remove all jointly owned Utility Poles & anchors	7	X			X		
		Sub-Total	152						
Task: 2	u	Eversource-Electric							
	u	Eversource-Electric - break into manholes, install hand holes and risers	5	X			X		
	u	Eversource-Electric - prepare riser	1	X			X		
	u	Eversource-Electric - replace underground cable	3	X			X		
	u	Eversource-Electric - splice cables	1	X			X		
	u	Eversource-Electric - frame installed UP's	7	X			X		
	u	Eversource-Electric - replace OHW	4	X			X		
	u	Eversource-Electric - replace transformers	1	X			X		
	u	Eversource-Electric - install overhead equipment and cut outs	3	X			X		
	u	Eversource-Electric - build risers	1	X			X		
		Sub-Total	26						
Task: 3	u	Open Cape							
	u	Open Cape -Place hardware on newly relocated poles.	1	X			X		
	u	Open Cape - release stored cable at (1) location, release cable supports at (20) UP locations.	1	X			X		
	u	Open Cape - redistribute cable over 1,150' of pole line, transfer to new locations.	1	X			X		
	u	Open Cape - place and Fasten cable supports and cable on (10) new set-ups. Refasten cabling to existing poles.	1	X			X		
	u	Open Cape - remake slack location and document remaining stored cable footage. Break down work location.	1	X			X		
		Sub-Total	5						
Task: 4	** u	Comcast							
	u	Comast - transfer OHW's to new UP's	13	X			X		
		Sub-Total	13						

RESPONSIBLE PARTY	DESCRIPTION - Utility Relocation Phases, Tasks and Activities	Estimated Duration (Work Days) by Utilities (Lead time not included)	Concurrent / Exclusive Utility Work				Access Restraint & Limitations of Operations Notes	
			Exclusion Utility on site	Concurrent Utilities	Contractor Off-Site	Contractor On-Site	Potential Access Restraint (Yes/No)	Reason/Note (optional)
C = Contractor U = Utility Co.	UTILITY OPERATIONS - Underground							
Task: 5	u NGRID-Gas							
**	u NGRID-Gas - to cut, cap and purge existing 4" BS gas main to provide clearance for proposed drainage lines. (No Force Account)	10	x				x	
	Sub-Total	10						

IMPORTANT BASIS NOTES - FOR CONTRACTOR

- 1 Unless otherwise specified in the MassDOT Construction Contract, or unless specifically noted within this PUC Form, these durations (herein) are based upon the Contractor providing *unimpeded access* to the Utility company to perform Utility relocations (see Note 5 - Access).
- 2 "Concurrent Utilities" operations noted herein, are to signify those Utility Company operations that can be worked concurrently (e.g. Utility A and Utility B work on-site together) - MassDOT and the Contractor are to prepare NTPs to Utilities accordingly.
- 3 "Potential Access Restraints" noted within this PUC Form are for planning purposes. See MassDOT Contract for Contractual Access Restraints (refer to Subsections 8.02, 8.03, and/or 8.06 for Design Bid Build Contracts and Volume II Section 9 for Design Build Contracts).
- 4 Utility non-work periods - For planning purposes, the durations above contain some non work days (contingency) for New England conditions (precipitation, high temperatures, low temperatures, snow, ice). Gas line work however, typically has a seasonal restriction and can NOT be installed from 15-November to 15-March. Municipally Owned Electric and Gas Utilities are also restricted from proceeding from 15-November to 15-March. The Contractor shall (and the CTD plan) reflect this calendar restriction within the schedule (unless otherwise note).
- 5 Access - Unless otherwise noted in the Contract, and in addition to the 'enabling' notes above, the Contractor must provide safe and unimpeded access (for trucks, lifts, cranes, etc.) to the Utilities, to allow for the proposed relocation(s) - including but not limited to snow removal, clearing and grubbing, guard rail removal, barrier removal, tree removal, and grading.
- 6 For all MassDOT construction contracts issued after January 2014, the new Utility Coordination/documentation specification is required. This is Section 8.14 in Design-Bid-Build Contracts (see Design-Build index reference for applicable section #).
- 7 Prior to starting any and all enabling work for Utilities, the Contractor is to plan in advance with submittals and approved durations.
- 8 * Potential District Initiated Early Utility Relocation - if noted herein, the District reserves the right to initiate early utility relocation in advance of the Contract NTP. In submitting a bid price and in the development/basis of the Baseline Schedule, the Contractor shall not plan the Work with the potential benefit of any form of 'early utility relocation.' As a requirement of the Baseline submission, unless otherwise noted in this Specification, the earliest that the first Utility company is to receive the 30 days advance notification to mobilize to the site, will be 7 calendar days after the pre-construction meeting and never sooner than 7 days after the Contract NTP.
- 9 **Assumed Duration, Not Provided By Utility Company.