



June 8, 2016

Mr. Christopher Bonsignore, P.E.
Principal Engineer
Environmental Compliance Section
Bureau of Engineering and Highway Operations
State of Connecticut Department of Transportation
2800 Berlin Turnpike, P.O. Box 317546
Newington, CT 06131-7546

Attention: Adam Fox, P.E. / Roger Levesque, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 04.27-01(15)
HazMat Inspection – Replacement of Signal Poles, Groton, Plainfield, Bolton, CT
ConnDOT Assignment No. 514-5367
ConnDOT Project No. 172-436
TRC Project No. 222165.5367.00710

Dear Mr. Bonsignore:

TRC performed a limited survey for hazardous building materials associated with the Replacement of eight (8) Signal Poles project, at seven (7) intersections in Groton, Plainfield and Bolton, Connecticut. Results of the survey identified detectable amounts of lead in the paint (0.1 mg/cm^2) on the metal signal span pole at Intersection No. 58-210 (Route 1 at Buddington Rd., Groton, CT). The signal span poles at Intersections Nos. 58-211 (Route 1 at South Rd., Groton, CT), 58-236 (Route 1 at Drozdyk Dr., Groton, CT), 58-236 (Route 12 at Pleasant Valley Rd. and Groton Square Dr., Groton, CT), 58-256 (Route 12 at Ohio Ave. Groton, CT), 108-208 (Route 12 at Route 14A and Cemetery Rd., Plainfield CT), and 012-201 (Route 6 at Route 85, Bolton, CT) were galvanized, therefore no lead paint was identified. Projected paint waste debris from the metal span pole at Intersection. No. 58-210 was sampled and characterized as non-hazardous, non-RCRA waste (0.18 mg/L). No suspect asbestos containing materials associated with the eight (8) metal span poles were identified at the 7 intersections. Laboratory data, site information and photos are attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

A handwritten signature in black ink, appearing to read "Michael C. Kostruba".

Michael C. Kostruba, CSP
Work Assignment Manager

A handwritten signature in black ink, appearing to read "Erik R. Plimpton".

Erik R. Plimpton, P.E., CHMM, CM
Vice President - Program Manager



Lead Based Paint Measurement Summary Table

Device(s): Niton XLp301-A (24792) X Ray Fluorescence (XRF) Spectrum Analyzer
 Site: Groton, Plainfield, Bolton Signal Poles
 Project #: 222165.5367.0710
 Date(s): 5/31/2016
 Inspector: Robert Belding (Lead Inspector #002210)

Number	Interior/ Exterior	Floor	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1		Shuttle Calibration								1.3	0.0		239.1	5/31/2016 8:44
2		0.0 Calibration								0.0	0.0	1.0	1.1	5/31/2016 8:48
3		0.0 Calibration								0.0	0.0	1.4	3.7	5/31/2016 8:49
4		0.7 Calibration								0.8	0.1	1.2	7.5	5/31/2016 8:50
5		3.6 Calibration								3.6	0.3	1.3	7.3	5/31/2016 8:50
VOID		VOID												
VOID		VOID												
8	Exterior	Exterior	Int. 058-210		Pole		Metal	Grey	INTACT	0.0	0.0	1.1	9.4	5/31/2016 9:10
9	Exterior	Exterior	Int. 058-210		Pole		Metal	Grey	INTACT	0.1	0.0	1.1	8.2	5/31/2016 9:10
10	Exterior	Exterior	Int. 058-210		Pole		Metal	Grey	INTACT	0.1	0.0	1.0	3.6	5/31/2016 9:11
11	Exterior	Exterior	Int. 058-211		Pole	Galvanized	Metal	Grey	INTACT	0.0	0.0	1.3	4.5	5/31/2016 9:33
VOID		VOID												
VOID		VOID												
VOID		VOID												
VOID		VOID												
VOID		VOID												
VOID		VOID												
VOID		VOID												
VOID		VOID												
21	Exterior	Exterior	Int. 058-256		Pole	Galvanized	Metal	Grey	DEFECTIVE	0.0	0.0	2.2	5.0	5/31/2016 11:20
22	Exterior	Exterior	Int. 108-208		Pole	Galvanized	Metal	Grey	DEFECTIVE	0.0	0.0	2.0	5.8	5/31/2016 12:16
VOID		VOID												
VOID		VOID												
25		0.0 Calibration								0.0	0.0	1.0	2.3	5/31/2016 14:23
26		0.7 Calibration								0.7	0.1	1.0	3.6	5/31/2016 14:23
27		3.6 Calibration								3.8	0.2	1.3	13.6	5/31/2016 14:24

Lead paint includes paint found to contain any detectable amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

80 Lupes Drive
Stratford, CT 06615



Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Mr. Erik Plimpton
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 6060058

Report Date: June 03, 2016
Project: CTDOT *436*
Project Number: DOT172-435, Groton
PO Number: 22165.5366.0710

5367

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York Certification: 11982
Rhode Island Certification: 199

CET #: 6060058

Project: CTDOT

Project Number: DOT172-435, Groton



80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-tarar organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte foun in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903

New York Certification 11982
Rhode Island Certification 199

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com

CET # : 6060058

Project: CTDOT

Project Number: DOT172-435, Groton

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,



David Ditta
Laboratory Director

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET-# : 6060058

Project: CTDOT

Project Number: DOT172-435, Groton

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 6020A in Soil</i>	
Lead	CT,NY

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2016
NY	New York Certification (NELAC)	11982	04/01/2016



COMPLETE ENVIRONMENTAL TESTING, INC.



6060058

F CUSTODY RECORD

CET # _____

Volatile Soils Only: _____

Date and Time in Freezer _____

Client: _____

CET # _____

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Sample ID: #12
Date/Time: 5/31/16 - 0918
Matrix: Paint
Turnaround Time: Same Day * (checked), Next Day *, 2-3 Days *, Std (5-7 Days)

Organics				Metals (check all that apply)				Additional Analysis			
8260 CT List											
8260 Aromatics											
8260 Halogens											
SPLP 8260											
TCLP 8260											
CT ETPH											
8270 CT List											
8270 PNAs											
PCBs											
Pesticides											
Herbicides											
13 Priority Poll											
8 RCRA											
TOTAL											
TCLP <u>Pb</u>											
SPLP											
Field Filtered											
Lab To Filter											
TOTAL # OF CONT.											
NOTE #											

RELINQUISHED BY: Michelle Gillette DATE/TIME: 5/31/16
RECEIVED BY: KDawn DATE/TIME: 6/1/16

RELINQUISHED BY: Michelle Gillette DATE/TIME: 5/31/16
RECEIVED BY: KDawn DATE/TIME: 6/1/16

Client / Reporting Information
Company Name: REC
Address: 21 Grafton Rd North
City: Windsor State: CT ZIP: 06095
Report to: Epiplimpton E-mail: Epiplimpton@he-solutions.com
Phone #: 860-288-9692 Fax #: 860-288-9692

Project Contact: Epiplimpton PO #: _____
Project #: DOT 172-435 Project #: 22165-5366.0210
Location: Grafton CT Collector(s): KR/MS-5366.0210

QA/QC: Std Site Specific (MS/MSD) * RCP Pkg * DQAW *

Data Report: PDF Excel Other
RFR Reporting Limits (check one): GA GB SWP Other (specify)

Lab Use: Evidence of Cooling Temp Upon Receipt AS AS AS AS

SHEET 1 OF 1

NOTES:
#12 - Budding tank/pipe 1 - SS-210 - Gray/red paint

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. REV. 7/1/10

PHOTO 1

Groton Int. 58-211 (Route 1 at South Rd.)

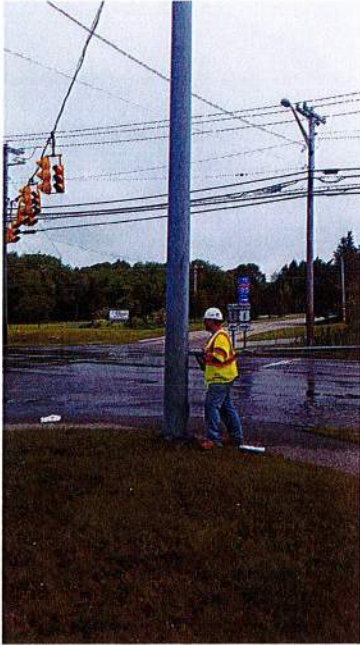


PHOTO 2

Groton Int. 58-210 (Route 1 at Buddington Rd.)

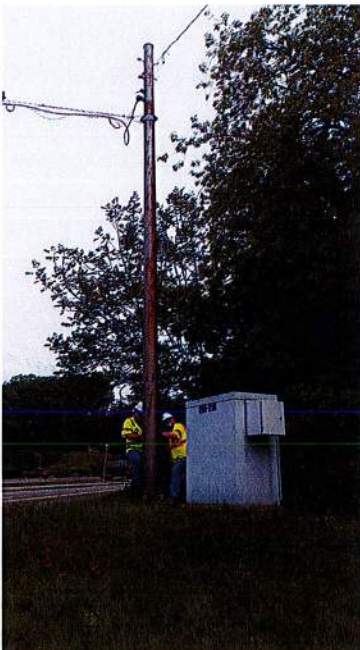


PHOTO 3

Groton Int. 58-236 (Route 1 at Drozdyk Dr.)



PHOTO 4

Groton Int. 58-203 (Route 12 at Pleasant Valley Rd. and Groton Square Dr.)



PHOTO 5

Groton Int. 58-256 (Route 12 at Ohio Ave.)



PHOTO 6

Groton Int. 58-256 (Route 12 at Ohio Ave.)



PHOTO 7

Plainfield Int. 108-208 (Route 12 at Route 14A and Cemetery Rd.)

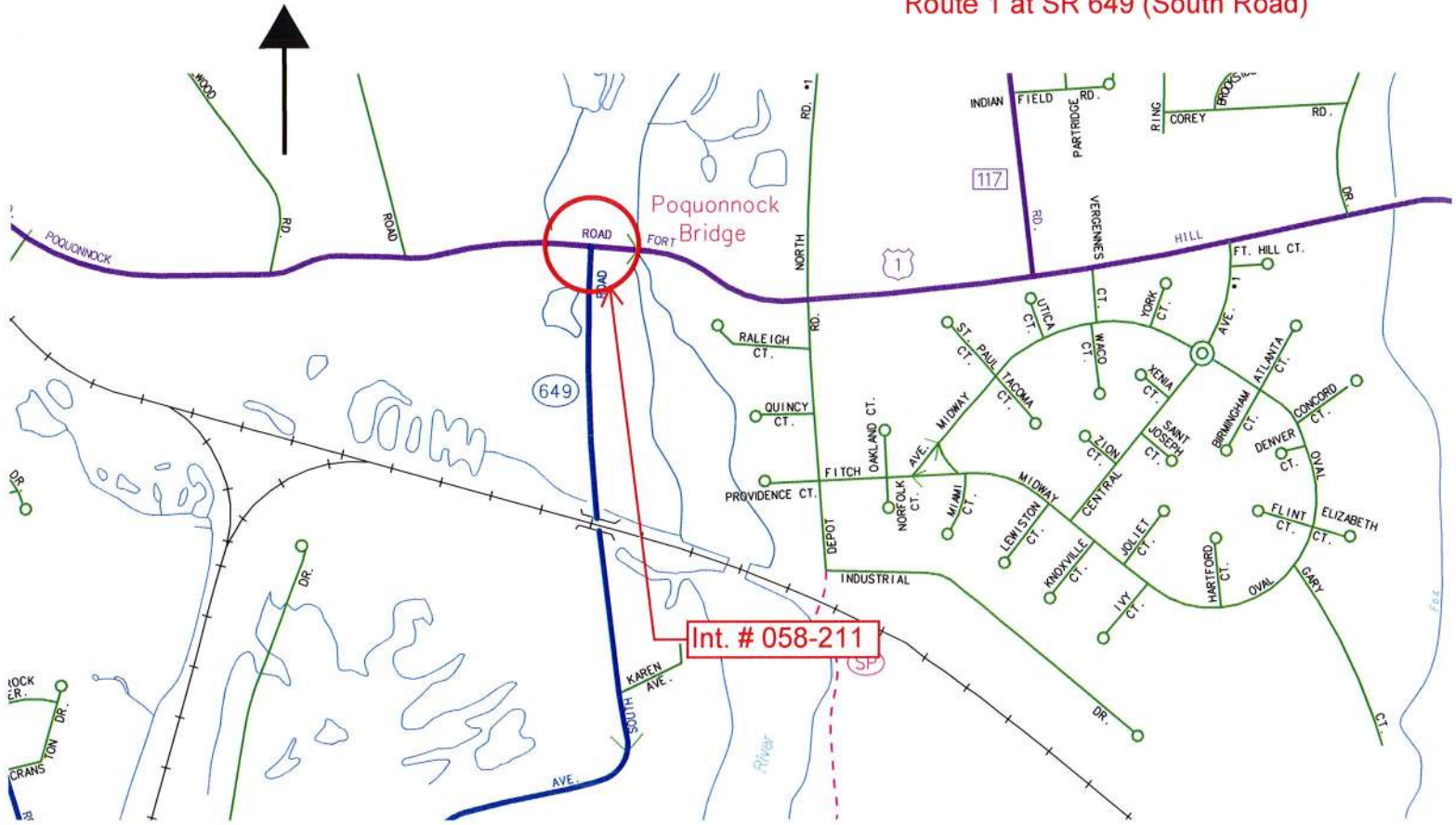


PHOTO 8

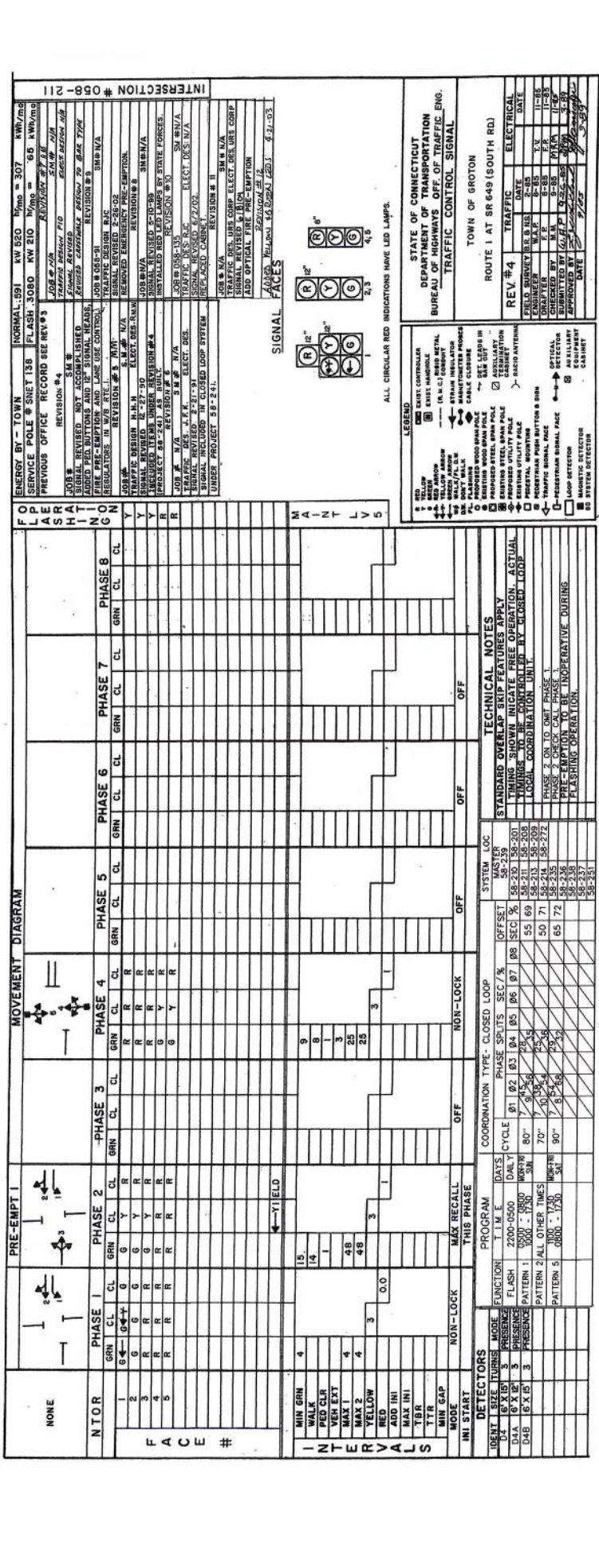
Bolton Int. 012-201 (Route 6 at Route 85)



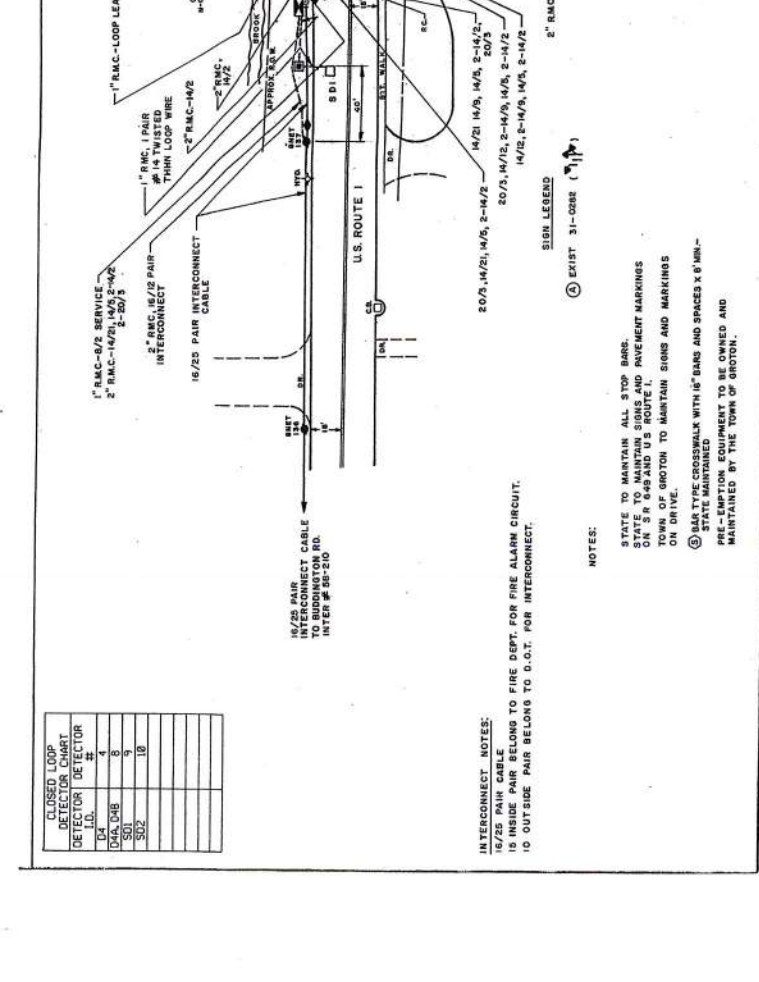
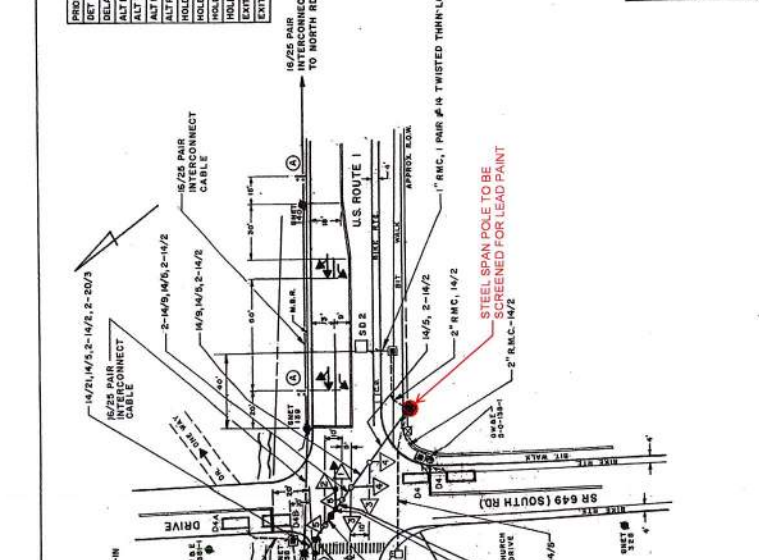
GROTON
Route 1 at SR 649 (South Road)



Pole is not painted
Galvanized steel - VOID XRF Shots
Pic 1+2
NOACM.



NORMAL 691	KW 450	Normal = 307	KW/V/M/S
FLASH 3089	KW 210	Normal = 66	KW/V/M/S
REVISION #1	REVISION #2	REVISION #3	REVISION #4
REVISION #5	REVISION #6	REVISION #7	REVISION #8
REVISION #9	REVISION #10	REVISION #11	REVISION #12
REVISION #13	REVISION #14	REVISION #15	REVISION #16
REVISION #17	REVISION #18	REVISION #19	REVISION #20
REVISION #21	REVISION #22	REVISION #23	REVISION #24
REVISION #25	REVISION #26	REVISION #27	REVISION #28
REVISION #29	REVISION #30	REVISION #31	REVISION #32
REVISION #33	REVISION #34	REVISION #35	REVISION #36
REVISION #37	REVISION #38	REVISION #39	REVISION #40
REVISION #41	REVISION #42	REVISION #43	REVISION #44
REVISION #45	REVISION #46	REVISION #47	REVISION #48
REVISION #49	REVISION #50	REVISION #51	REVISION #52
REVISION #53	REVISION #54	REVISION #55	REVISION #56
REVISION #57	REVISION #58	REVISION #59	REVISION #60
REVISION #61	REVISION #62	REVISION #63	REVISION #64
REVISION #65	REVISION #66	REVISION #67	REVISION #68
REVISION #69	REVISION #70	REVISION #71	REVISION #72
REVISION #73	REVISION #74	REVISION #75	REVISION #76
REVISION #77	REVISION #78	REVISION #79	REVISION #80
REVISION #81	REVISION #82	REVISION #83	REVISION #84
REVISION #85	REVISION #86	REVISION #87	REVISION #88
REVISION #89	REVISION #90	REVISION #91	REVISION #92
REVISION #93	REVISION #94	REVISION #95	REVISION #96
REVISION #97	REVISION #98	REVISION #99	REVISION #100

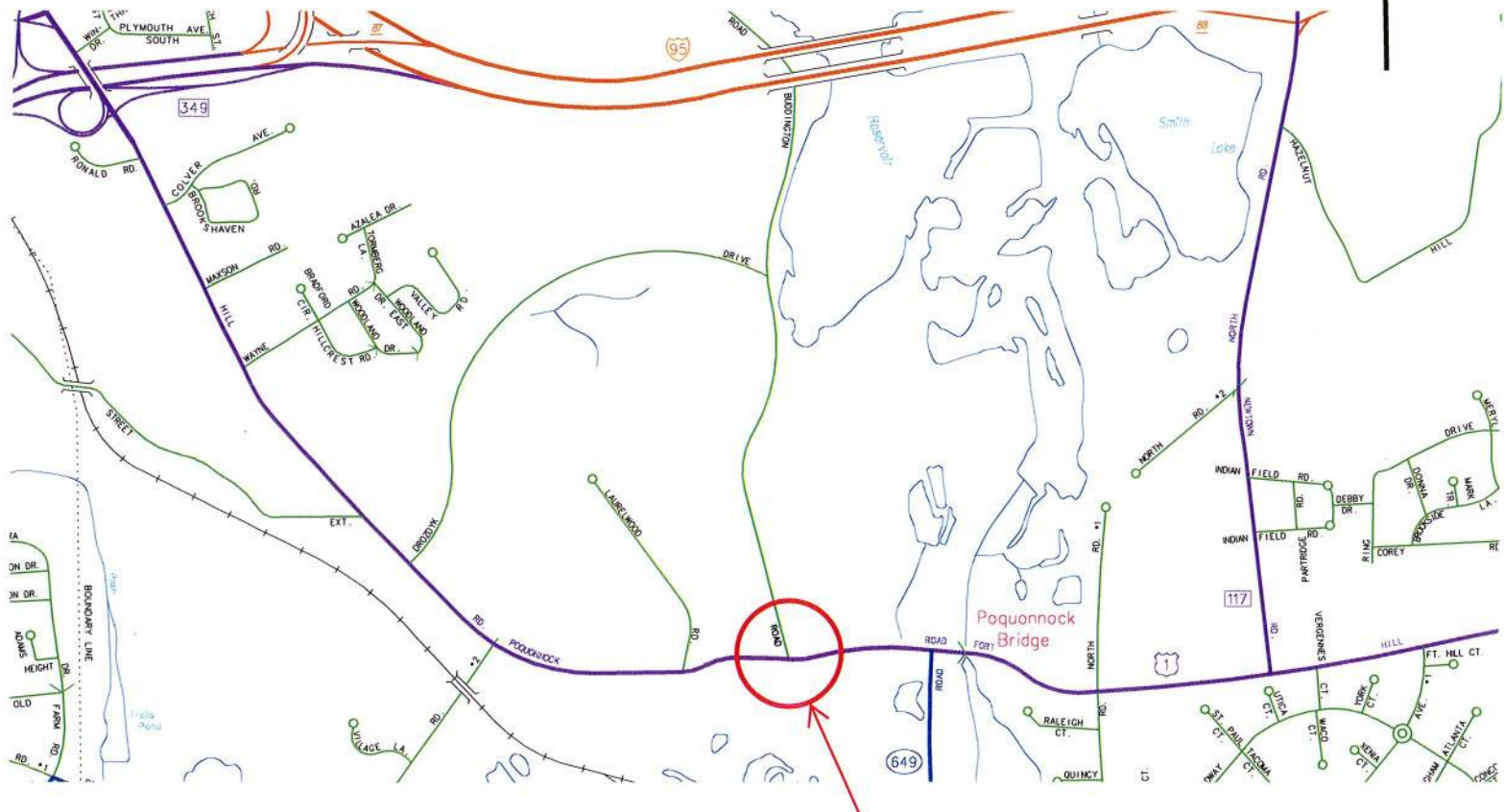


STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS OFF. OF TRAFFIC ENG.
 TRAFFIC CONTROL SIGNAL LAYOUT

TOWN OF GROTON
 US RTE. 1 AT SR 649 (SOUTH RD)

SCALE: 1" = 40'

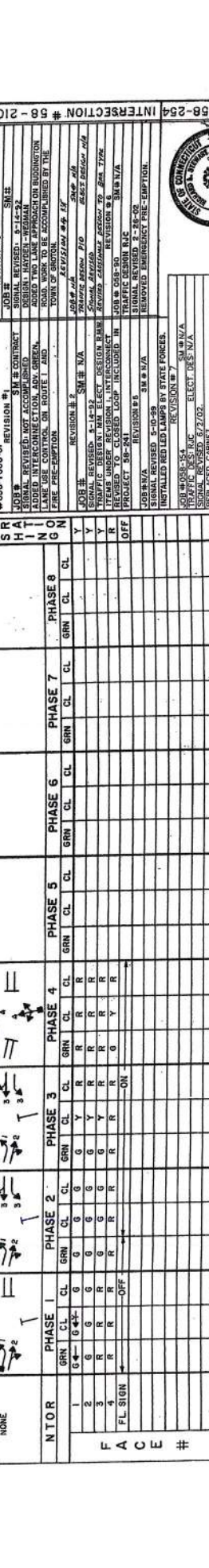
GROTON
Route 1 at Buddington Road



Int. # 058-210

pic 3+4+5+6
Silver/Red paint - NO ACM
.06 ft - .03 - help - yes
Pbchip?

ENERGY BY TOWN NORMAL .731 KW 487 $V_{mp} = 3.56$ KW/260
 FLASH .385 KW 243 $V_{mp} = .94$ KW/260
 SERVICE POLE # 1
 PREVIOUS OFFICE RECORD SEE E.T.C. # 009-7606-01
 REVISION # 3
 JOB # 1
 SIGNAL REVISIONS 1-14-72
 SIGNAL MANAGER - WHELAN
 ASSESS TWO LANE APPROACH ON BUDDINGTON
 INTERSECTION, ADV. GREEN, RED, YELLOW, PINK, PURPLE, AND BLUE LIGHTS ACCOMPLISHED BY THE TOWN OF GROTON.
 FIRE PRE-EMPTION ON ROUTE 1
 REVISION # 2
 JOB # 2
 SIGNAL REVISIONS 1-14-72
 SIGNAL MANAGER - WHELAN
 ASSESS TWO LANE APPROACH ON BUDDINGTON INTERSECTION, ADV. GREEN, RED, YELLOW, PINK, PURPLE, AND BLUE LIGHTS ACCOMPLISHED BY THE TOWN OF GROTON.
 REVISION # 1
 JOB # 3
 SIGNAL REVISIONS 1-14-72
 SIGNAL MANAGER - WHELAN
 ASSESS TWO LANE APPROACH ON BUDDINGTON INTERSECTION, ADV. GREEN, RED, YELLOW, PINK, PURPLE, AND BLUE LIGHTS ACCOMPLISHED BY THE TOWN OF GROTON.
 REVISION # 0
 JOB # 4
 SIGNAL REVISIONS 1-14-72
 SIGNAL MANAGER - WHELAN
 ASSESS TWO LANE APPROACH ON BUDDINGTON INTERSECTION, ADV. GREEN, RED, YELLOW, PINK, PURPLE, AND BLUE LIGHTS ACCOMPLISHED BY THE TOWN OF GROTON.



MOVEMENT DIAGRAM

FL SIGN	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	SYSTEM LOC	
									CL	OFFSET
1	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-239
2	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-240
3	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-241
4	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-242
5	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-243
6	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-244
7	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-245
8	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-246
9	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-247
10	GRN	GRN	GRN	GRN	GRN	GRN	GRN	GRN	CL	56-248

TECHNICAL NOTES

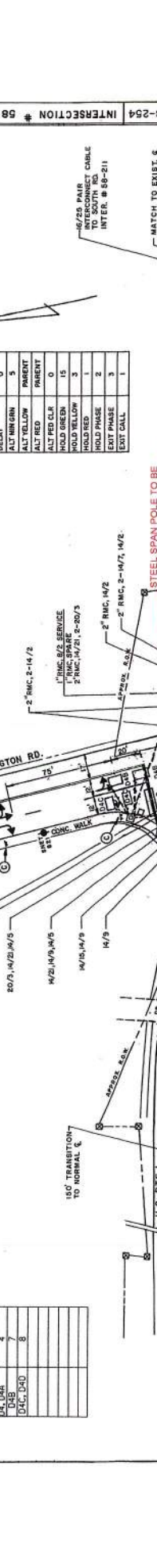
NO	DESCRIPTION
1	STANDARD OVERLAP SKIP FEATURED APPLY TO ALL PHASES
2	PHASE 1 TO OCCUR ONLY IF PHASE 4 IS CALLED
3	PHASE 2 TO OCCUR ONLY IF PHASE 3 IS CALLED
4	PHASE 3 TO OCCUR ONLY IF PHASE 4 IS CALLED
5	PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION
6	FLASHING OPERATION TO BE OBSERVED AND ACTUAL TIMINGS TO BE CONTROLLED BY CLOSED LOOP LOCAL COORDINATION UNIT

DETECTORS	MODE	FUNCTION	TIME	DAY	COORDINATION TYPE	CLOSED LOOP	NON-LOCK	OFF	OFFSET
1	MIN GRN	15	YIELD	7					
2	WALK	14		11					
3	VEH EXT	3		26					
4	MAX 1	20		25					
5	MAX 2	3		3					
6	RED	0		0					
7	ADD INI								
8	MAX INI								
9	TOR								
10	MIN GAP								
11	MIN START								
12	NON-LOCK								
13	MAX RECALL								

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 TRAFFIC CONTROL SIGNAL

TOWN OF GROTON
 U.S. ROUTE 1 (POQUONNOK RD.) AT
 BUDDINGTON RD.

REV #	DATE	DESCRIPTION
1	11-85	DESIGNED BY...
2	11-85	APPROVED BY...
3	11-85	DATE
4	11-85	DATE
5	11-85	DATE
6	11-85	DATE
7	11-85	DATE
8	11-85	DATE



OFFICE RECORD CONT'D.

LEGEND

RED	EXISTING CONTROLLER
GREEN	EXISTING SIGNAL
YELLOW	EXISTING SIGNAL
PINK	EXISTING SIGNAL
PURPLE	EXISTING SIGNAL
BLUE	EXISTING SIGNAL
DASH	EXISTING SIGNAL
SOLID	EXISTING SIGNAL
DOTTED	EXISTING SIGNAL
DASH-DOTTED	EXISTING SIGNAL
SOLID-DOTTED	EXISTING SIGNAL
DASH-DOTTED-DOTTED	EXISTING SIGNAL
SOLID-DOTTED-DOTTED	EXISTING SIGNAL
DOTTED-DOTTED-DOTTED	EXISTING SIGNAL
DOTTED-DOTTED-DOTTED-DOTTED	EXISTING SIGNAL
DOTTED-DOTTED-DOTTED-DOTTED-DOTTED	EXISTING SIGNAL
DOTTED-DOTTED-DOTTED-DOTTED-DOTTED-DOTTED	EXISTING SIGNAL
DOTTED-DOTTED-DOTTED-DOTTED-DOTTED-DOTTED-DOTTED	EXISTING SIGNAL
DOTTED-DOTTED-DOTTED-DOTTED-DOTTED-DOTTED-DOTTED-DOTTED	EXISTING SIGNAL



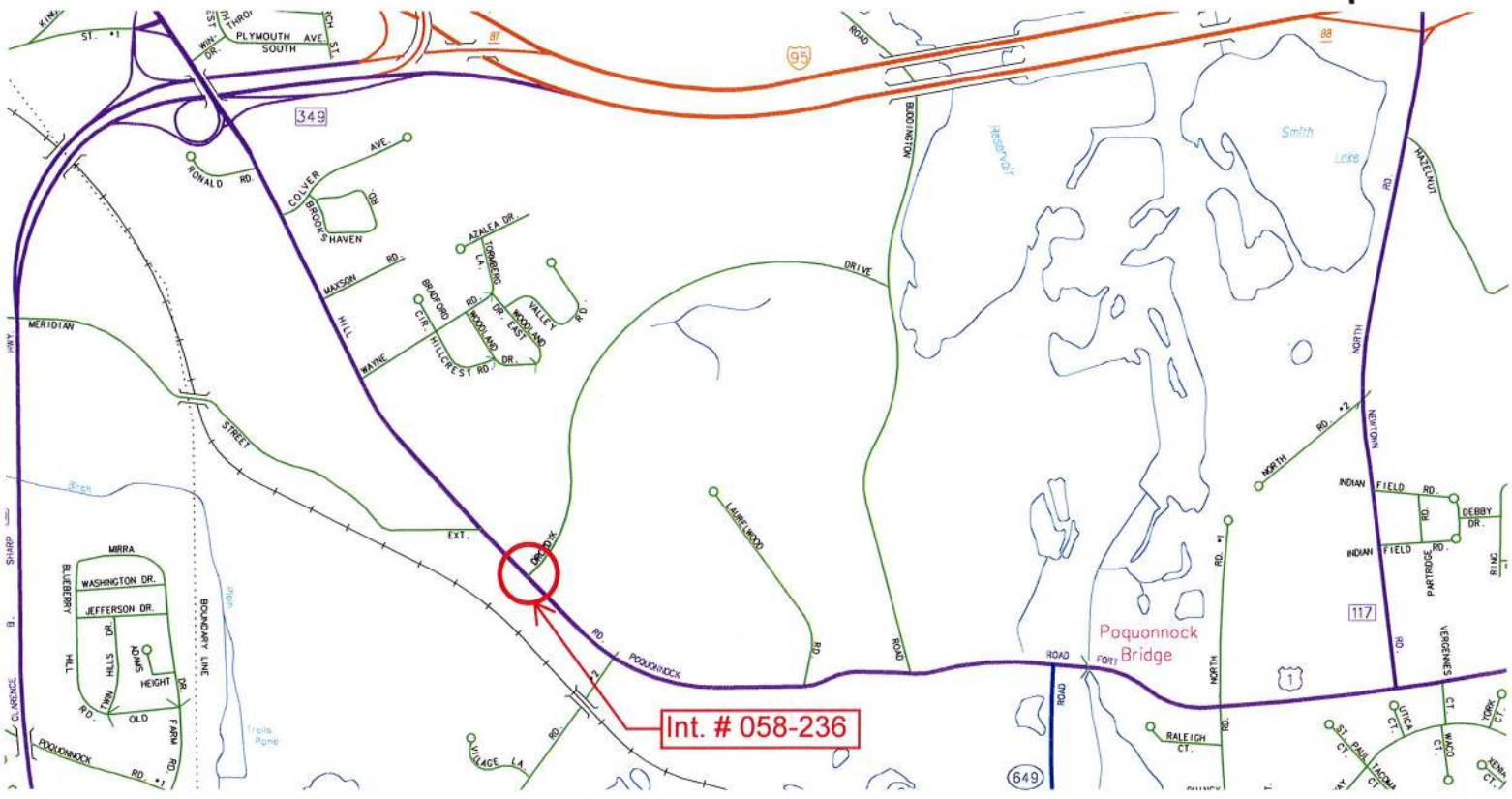
STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 TRAFFIC CONTROL SIGNAL LAYOUT

TOWN OF GROTON
 U.S. ROUTE 1 (POQUONNOK RD.) AT
 BUDDINGTON RD.

REV #	DATE	DESCRIPTION
1	11-85	DESIGNED BY...
2	11-85	APPROVED BY...
3	11-85	DATE
4	11-85	DATE
5	11-85	DATE
6	11-85	DATE
7	11-85	DATE
8	11-85	DATE



GROTON
Route 1 @ Drozdyk Drive



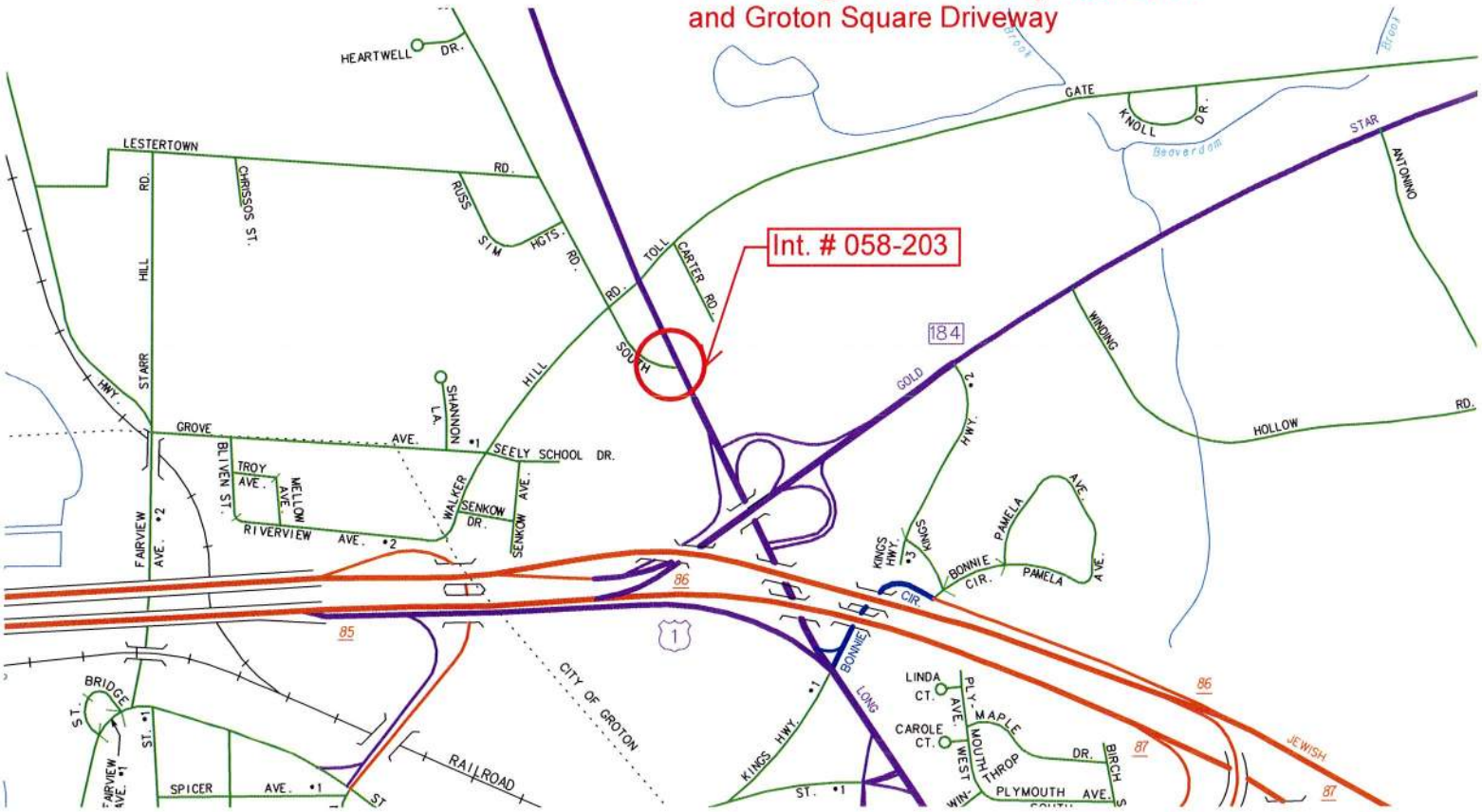
Galvanized - 0.01 + 0.02

No ACM

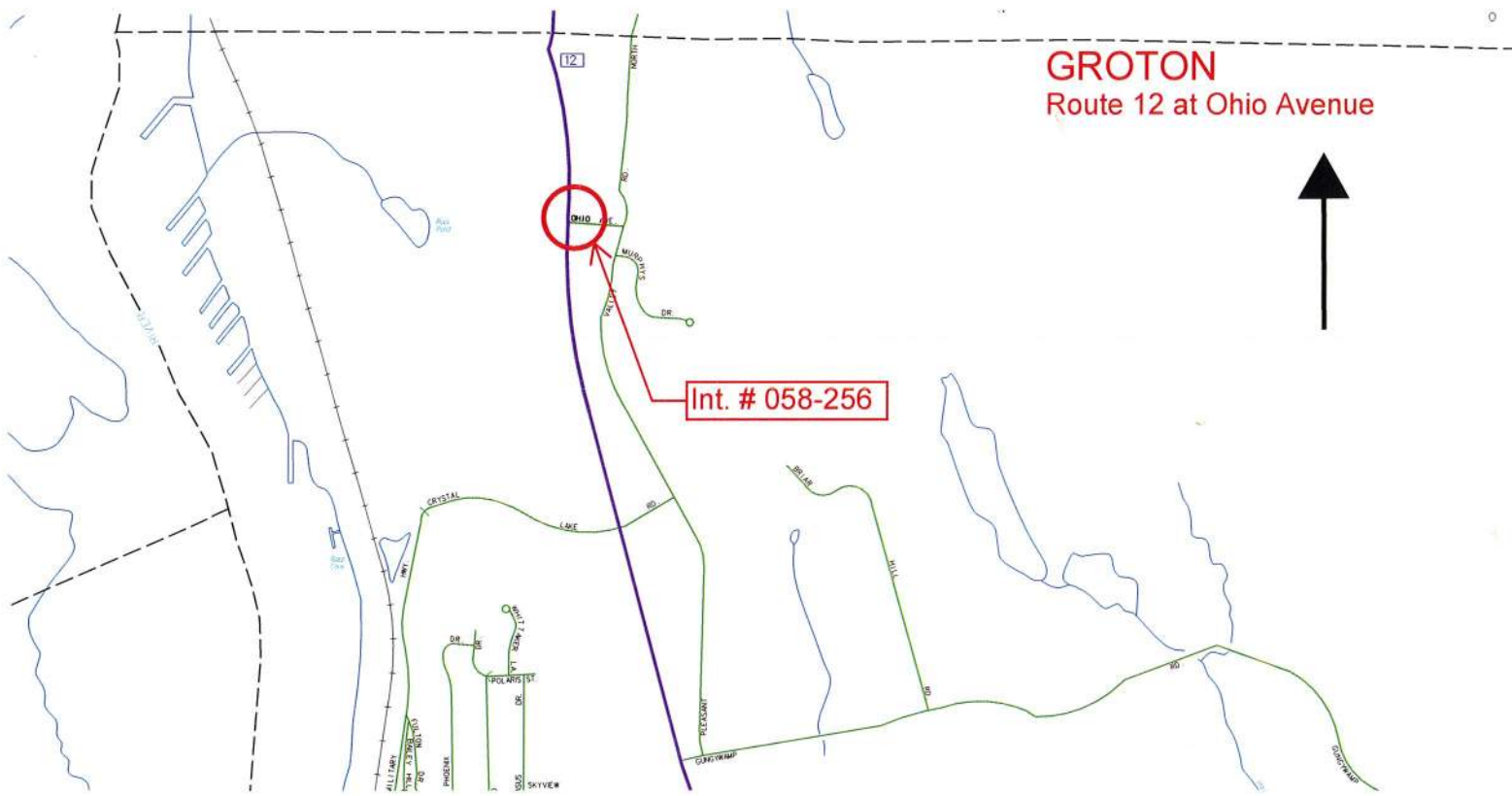
No paint Scraps

GROTON

Route 12 @ Pleasant Valley Road South
and Groton Square Driveway

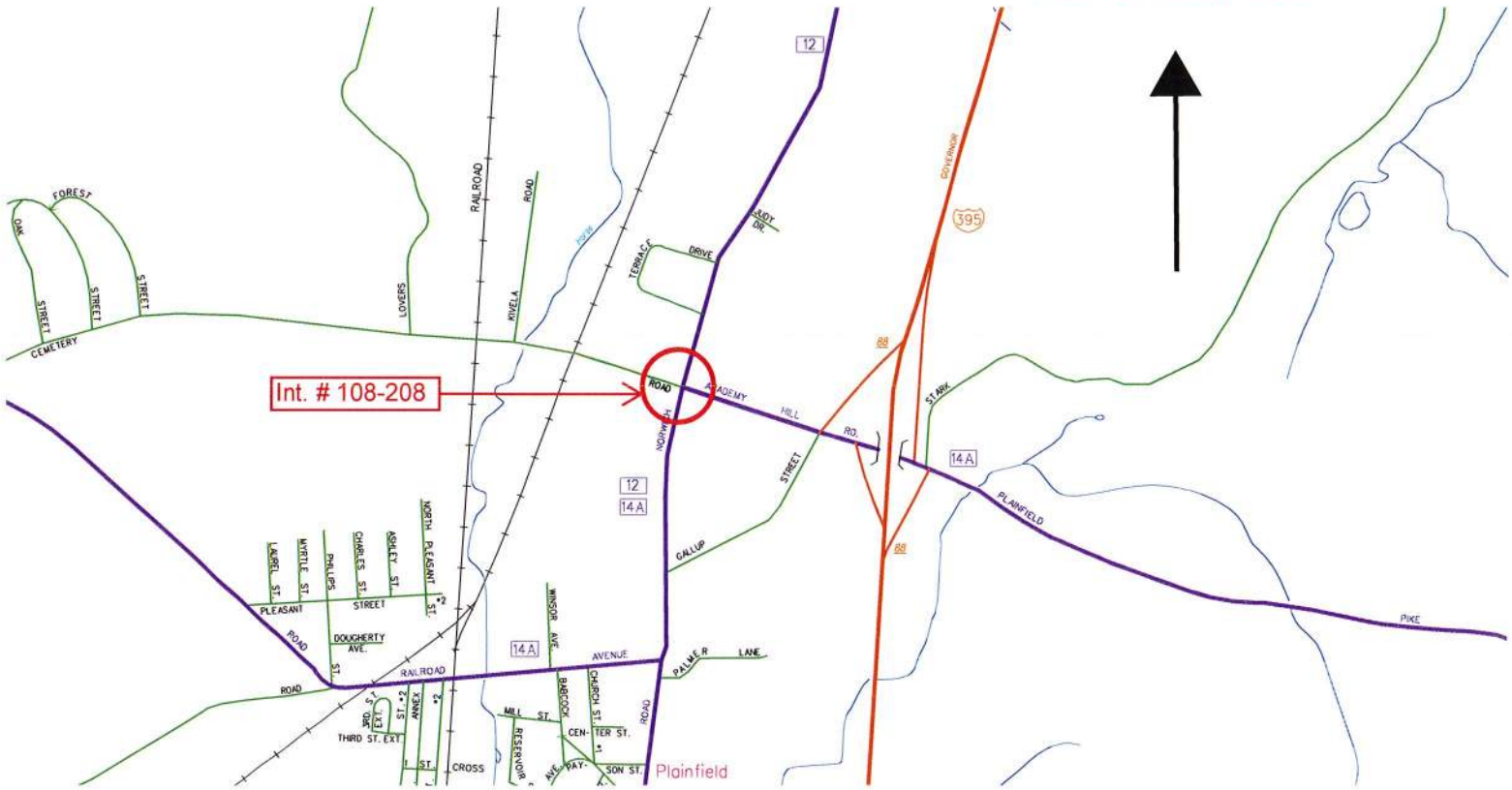


Galvanized - 1204-107 / .12 + .04
No AcM



Galvanize a
no Achm
101 +/- .02

PLAINFIELD
Route 12 at Route 14A
and Cemetery Road



Notion Box
Galvanized
No ACM

0.01 +/- 0.02

CONSTRUCTION NOTES

- STAKE ALL R.O.W. PRIOR TO EXCAVATION. ALL WORK TO BE WITHIN EXISTING R.O.W.
- ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.
- INSTALL ALL SIGNAL HEADS WITH PUSH BUTTON AND NORTH/EAST CORNER.
- SOUTHWEST AND NORTH/EAST CORNERS.
- INSTALL PEDESTRIAN SIGNAL HEADS AT SOUTHWEST CORNER.
- INSTALL PEDESTRIAN SIGNAL HEADS AS SHOWN.
- ADD CABLEING AS SHOWN ON PLAN.
- MODIFY CONTROLLER TO PROVIDE SEQUENCE AND TIMING SHOWN.
- ADD EXCLUSIVE PEDESTRIAN PHASE.
- PROVIDE 4 COPIES OF REVISED CORNER WIRING DIAGRAMS.
- INSTALL 2"-HIGH RMC INTO EXISTING HANDHOLE AT NORTH/EAST CORNER. REMOVE EXISTING 1 1/2" CABLE FROM SOUTH/SIDE CORNER TO CONTROLLER. INSTALL 1 1/2" FROM NEW PEDESTRIAN SIGNAL HEADS AND REMOVE EXISTING 1 1/2" CABLE AND INSTALL 1 1/2" FROM NEW PEDESTRIAN SIGNAL HEADS AND REPAIR/REPLACE AS SHOWN ON SITE PLAN NO. 7.
- CONSTRUCT PEDESTRIAN HANDCAP RAMPS WITH DETECTABLE WARNING STRIPS AT SOUTHWEST, NORTH/EAST AND SOUTHWEST CORNER BACK TO CONTROLLER.
- INSTALL PEDESTRIAN CROSS WALKS AS SHOWN. ALL CONFLICTING PAVEMENT MARKINGS TO BE EMERGOATED.
- ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO THE FOLLOWING CURRENT DOT REQUIREMENTS AND SPECIFICATIONS:
 - STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION (FORM 816).
 - STANDARD SPECIFICATIONS FOR HIGHWAYS (FORM 816).
 - SPECIAL PROVISIONS TO FORM 816.
- ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPROPRIATES SHOW ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

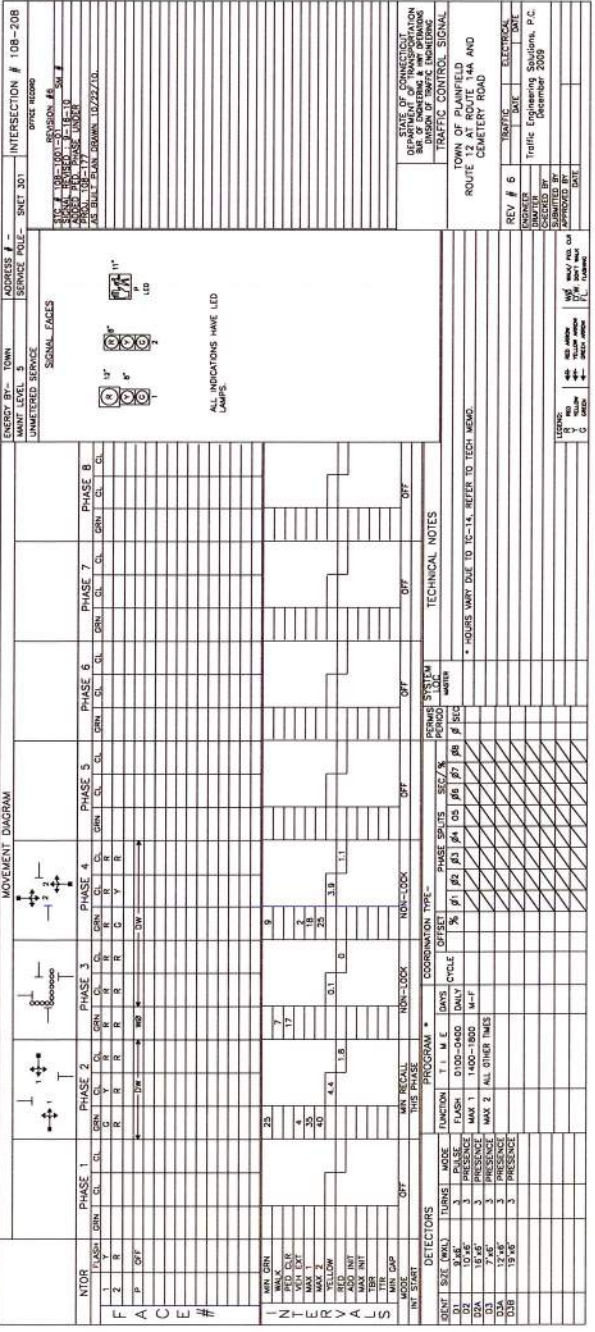


NORWICH ROAD SIDEWALK PROJECT
AREA PROJECT No. 108-177
TRAFFIC CONTROL SIGNAL LAYOUT
ROUTE 12 AT ROUTE 14A AND CEMETERY ROAD
PREPARED FOR
TOWN OF PLAINFIELD
NORWICH ROAD (ROUTE 12)
PLAINFIELD, CONNECTICUT



Provost & Royce, Inc.
Engineering • Surveying • Site Planning
57 Elm Main Street, P.O. Box 191
Plainfield, Connecticut 06074
(860) 241-3939 • FAX: (860) 230-4869
EMAIL: info@provostroyce.com

DATE	DESCRIPTION
7/2/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS
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1/7/2010	SUP COMMENTS
1/7/2010	SUP COMMENTS

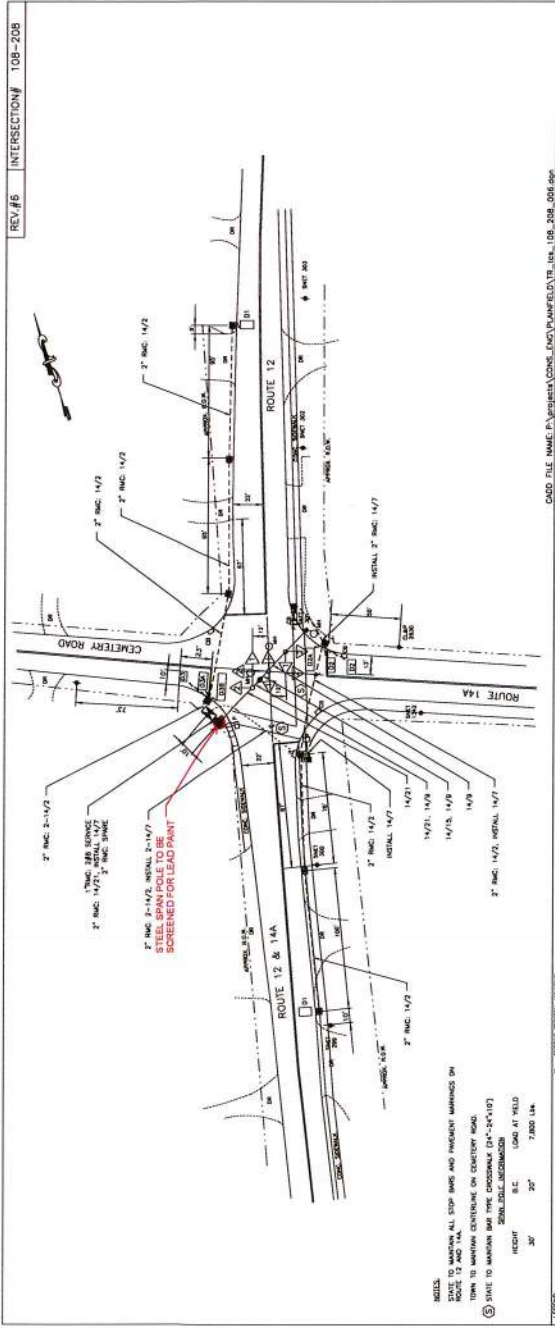


MOVEMENT DIAGRAM

L	T	R	PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE B
			CL	SL	CL	SL	CL	SL	CL	SL	CL	SL	CL	SL	CL	SL	CL	SL	CL	SL	CL	SL	CL	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

TECHNICAL NOTES

- 1. HOUSE WIRING DATE TO BE 10-15, REFER TO TECH WOOD.



REV.#6 INTERSECTION# 108-208

NO	DATE	DESCRIPTION
1	1/7/2010	ISSUED FOR PERMITS
2	1/7/2010	SUP COMMENTS
3	1/7/2010	SUP COMMENTS
4	1/7/2010	SUP COMMENTS
5	1/7/2010	SUP COMMENTS
6	1/7/2010	SUP COMMENTS
7	1/7/2010	SUP COMMENTS
8	1/7/2010	SUP COMMENTS
9	1/7/2010	SUP COMMENTS
10	1/7/2010	SUP COMMENTS

MOVEMENT DIAGRAM

NO	DATE	DESCRIPTION
1	1/7/2010	ISSUED FOR PERMITS
2	1/7/2010	SUP COMMENTS
3	1/7/2010	SUP COMMENTS
4	1/7/2010	SUP COMMENTS
5	1/7/2010	SUP COMMENTS
6	1/7/2010	SUP COMMENTS
7	1/7/2010	SUP COMMENTS
8	1/7/2010	SUP COMMENTS
9	1/7/2010	SUP COMMENTS
10	1/7/2010	SUP COMMENTS

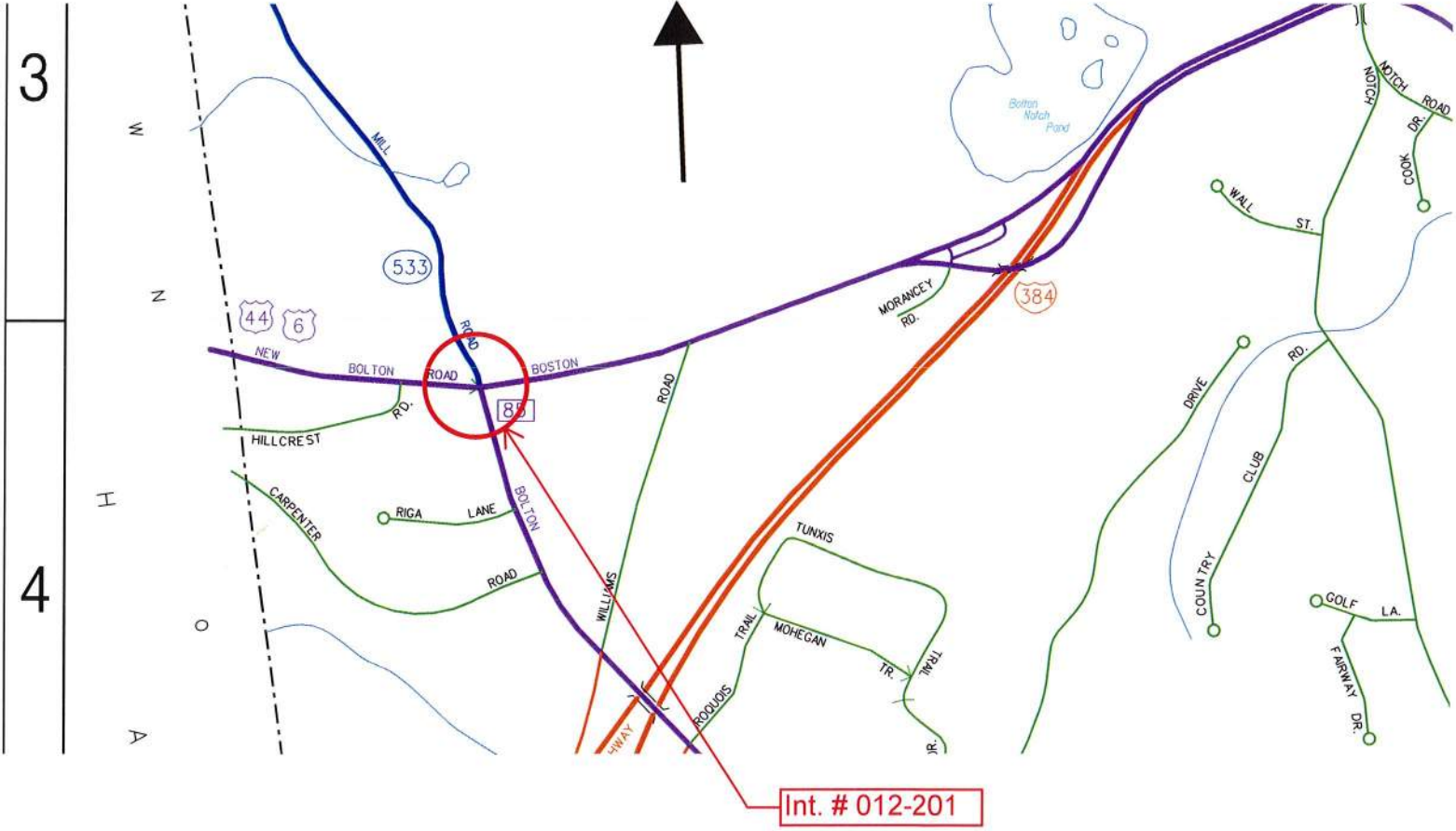
TRAFFIC CONTROL SIGNAL LAYOUT

NO	DATE	DESCRIPTION
1	1/7/2010	ISSUED FOR PERMITS
2	1/7/2010	SUP COMMENTS
3	1/7/2010	SUP COMMENTS
4	1/7/2010	SUP COMMENTS
5	1/7/2010	SUP COMMENTS
6	1/7/2010	SUP COMMENTS
7	1/7/2010	SUP COMMENTS
8	1/7/2010	SUP COMMENTS
9	1/7/2010	SUP COMMENTS
10	1/7/2010	SUP COMMENTS

MOVEMENT DIAGRAM

NO	DATE	DESCRIPTION
1	1/7/2010	ISSUED FOR PERMITS
2	1/7/2010	SUP COMMENTS
3	1/7/2010	SUP COMMENTS
4	1/7/2010	SUP COMMENTS
5	1/7/2010	SUP COMMENTS
6	1/7/2010	SUP COMMENTS
7	1/7/2010	SUP COMMENTS
8	1/7/2010	SUP COMMENTS
9	1/7/2010	SUP COMMENTS
10	1/7/2010	SUP COMMENTS

BOLTON
Route 6/44 at Route 85



Galvanized
no ACM

~~114 + 104~~

MOVEMENT DIAGRAM

F.A.C.C.#	NTOR	PHASE 1		PHASE 2		PHASE 3		PHASE 4		PHASE 5		PHASE 6		PHASE 7		PHASE 8	
		GRN	CL	GRN	CL	GRN	CL	GRN	CL	GRN	CL	GRN	CL	GRN	CL	GRN	CL
	1	OFF															
	2		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	3		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	4		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	5		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	6		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	7		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	8		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

INTERVALS
 MIN GRN 4
 MIN CLR 2.5
 VEN EXT 4.5
 MAX 1 4
 MAX 2 4
 RED 1.5
 ADD INI 2.0
 YLR 1.5
 TTR 2.0
 MIN GAP 2.5
 MIN RECALL 2.5
 MAX RECALL 2.5

IDENT	SIZE	FUNCTION	MODE	TIME	COORDINATION	SYSTEM
D1	MAG	PULSE	DELAY	SAFETY	OFF	MASTER
D2	2" X 10"	3	3	2	10	10
D3	2" X 10"	3	3	2	10	10
D4	2" X 10"	3	3	2	10	10
D5	2" X 10"	3	3	2	10	10
D6	2" X 10"	3	3	2	10	10
D7	2" X 10"	3	3	2	10	10
D8	2" X 10"	3	3	2	10	10

TECHNICAL NOTES
 STANDARD OVERLAP TRIP FEATURES APPLY

LEGEND:
 1 YELLOW
 2 RED
 3 GREEN
 4 BLUE
 5 WHITE
 6 BLACK
 7 METAL
 8 PLASTIC
 9 PAPER
 10 RUBBER
 11 GLASS
 12 WOOD
 13 BRASS
 14 STEEL
 15 ALUMINUM
 16 COPPER
 17 SILVER
 18 GOLD
 19 ZINC
 20 TIN
 21 LEAD
 22 IRON
 23 NICKEL
 24 CADMIUM
 25 MAGNESIUM
 26 SILICON
 27 BORON
 28 PHOSPHORUS
 29 SULFUR
 30 CHLORINE
 31 BROMINE
 32 IODINE
 33 FLUORINE
 34 OXYGEN
 35 NITROGEN
 36 CARBON
 37 HYDROGEN
 38 HELIUM
 39 NEON
 40 ARGON
 41 KRYPTON
 42 XENON
 43 RADIUM
 44 POLONIUM
 45 BISMUTH
 46 THALLIUM
 47 LEAD
 48 TIN
 49 ANTIMONY
 50 ARSENIC
 51 SELENIUM
 52 TELLURIUM
 53 BISMUTH
 54 POLONIUM
 55 RADIUM
 56 ACTINIUM
 57 THORIUM
 58 URANIUM
 59 NEPTUNIUM
 60 PLUTONIUM
 61 AMERICIUM
 62 CURIUM
 63 BERKELIUM
 64 CALIFORNIUM
 65 EINSTEINIUM
 66 FERMIUM
 67 MENDEEV
 68 NOBELIUM
 69 ROENTGENIUM
 70 HAHN
 71 UNQUANTIFIED
 72 UNNAMED
 73 UNIDENTIFIED

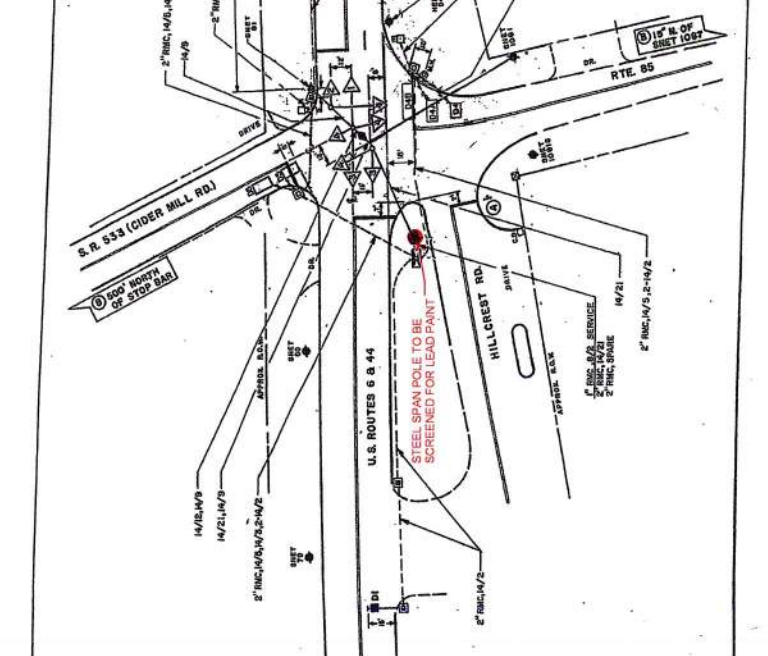
DETECTORS
 INI START
 MAX RECALL
 MIN RECALL
 PROGRAM TIME
 CYCLE SAFETY RT
 OFF % SEC
 PERIOD % SEC
 MASTER

SIGNAL FACES
 FACES 1, 2 AND 3 HAVE BACK PLATES
 ALL INDICATIONS HAVE LED LAMPS.

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
 TRAFFIC CONTROL SIGNAL LAYOUT

TOWN OF BOLTON
 U.S. RTE. 6 & 44 AT RTE. 85 &
 S.R. 553 (CIDER MILL RD.)

REV. # 9
 INTERSECTION # 012-201



NOTES:
 STATE TO MAINTAIN ALL STOP BARS
 MAINTAIN CENTER LINE ON
 HILLCREST RD.

ELSE LELEGED
 1 EXISTING M-ORIG (STOP)
 2 EXISTING 4+OSSESS. (M)
 3 EXISTING 4+ORIG (SIGNAL)
 4 EXISTING INTERNALLY ILLUMINATED OVERHEAD
 FLASHING STOP HEAD SIGNAL

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS DIVISION OF TRAFFIC
 TRAFFIC CONTROL SIGNAL LAYOUT

TOWN OF BOLTON
 U.S. RTE. 6 & 44
 S.R. 553 (CIDER MILL RD.)

SCALE: 1" = 40'