



March 28, 2019

Mr. Adam G. Fox, P.E.  
Principal Engineer  
Environmental Compliance Section  
Bureau of Engineering and Construction  
State of Connecticut Department of Transportation  
2800 Berlin Turnpike, P.O. Box 317546  
Newington, CT 06131-7546

Attention: Amie Maines, P.E. / Robert Reilly

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance  
Agreement No. 8.07-01 (18)  
HazMat Inspection – Signage Replacement, Route 9, 15 & SR571 Connector, Cromwell & Berlin, CT  
ConnDOT Assignment No. 519-5849  
ConnDOT Project No. 7-189  
TRC Project No. 289951.5849.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the Signage Replacement, Route 9, 15 & SR571 Connector in Cromwell & Berlin, Connecticut. TRC’s survey consisted of inspecting overhead, cantilever, side mounted and bridge mounted signage poles on ConnDOT Preliminary Design drawings for Project No. 7-189. Detectable amounts of lead in paint were identified/presumed on the following homogeneous green painted overhead & cantilever sign supports:

•ID 504 (Overhead)	•Sign Support No. 21026	•Sign Support No. 21027
•Sign Support No. 21031	•Sign Support No. 21032	•Sign Support No. 21033
•Sign Support No. 21036	•Sign Support No. 21038	•Sign Support No. 21073
•Sign Support No. 21075	•Sign Support No. 21076	•Sign Support No. 21079
•Sign Support No. 21081	•Sign Support No. 21082	•ID 1107 (Cantilever)

All/any other sign supports with same homogeneous green paint shall also presumed as containing lead paint. The remaining overhead and cantilever sign supports as well as the side mounted (two leg I-beam support) and bridge mounted signage poles were found to be unpainted (galvanized), therefore no lead paint was identified on them. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the representative green paint on the overhead & cantilever sign supports characterized the paint waste streams as non-hazardous, non-RCRA waste. Caulking at the base of Sign Support No. 21027 was sampled and found to be non-ACM. Associated laboratory data, inspector notes, TRC Mobile Data Solutions report and project description are attached.

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

Very Truly Yours,

TRC

Stephen R. Arienti, CHMM  
Project Manager

Reviewed by:

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



## Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #7587) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Site: ConnDOT - Sign Replacements Route 9 & 15, Cromwell & Berlin  
 Project # : 289951.5849.0710  
 Date(s): 2/27/19 & 3/4/2019  
 Inspectors: Pat Schaffner & Tyler Macgillivray

Number	Interior/ Exterior	Location	Sign No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm <sup>2</sup> )	Precision (mg/cm <sup>2</sup> )	Depth Index	Duration (sec)	Date/Time
1			<b>Self Calibration</b>										176.9	2/27/2019 12:51
2			<b>0.0 Calibration</b>							0.0	0.0	1.0	1.9	2/27/2019 12:54
3			<b>1.6 Calibration</b>							1.4	0.1	1.1	6.8	2/27/2019 12:55
4			<b>3.6 Calibration</b>							3.7	0.3	1.3	4.7	2/27/2019 12:55
5	Exterior	Cromwell/Berlin	sign 1201		Pole		Metal	Green	Defective	0.0	0.0	1.5	7.5	2/27/2019 13:01
6	Exterior	Cromwell/Berlin	sign 1201		Pole		Metal	Green	Defective	0.0	0.0	2.9	5.0	2/27/2019 13:01
7	Exterior	Cromwell/Berlin	sign 1201		Pole		Metal	Green	Defective	0.0	0.0	1.0	1.9	2/27/2019 13:02
8	Exterior	Cromwell/Berlin	sign 1201		Pole		Metal	Green	Defective	0.0	0.0	2.3	5.6	2/27/2019 13:04
9	Exterior	Cromwell/Berlin	sign 1201		Pole		Metal	Green	Defective	0.0	0.0	1.0	2.1	2/27/2019 13:04
10	Exterior	Cromwell/Berlin	sign 1201		Pole		Metal	Green	Defective	0.0	0.0	2.6	4.0	2/27/2019 13:05
11	Exterior	Cromwell/Berlin	sign 1201		Pole		Metal	Green	Defective	0.0	0.0	3.9	13.4	2/27/2019 13:08
12	Exterior	Cromwell/Berlin	sign 21079		Pole		Metal	Green	Defective	<b>0.1</b>	<b>0.0</b>	1.4	12.7	2/27/2019 15:00
13	Exterior	Cromwell/Berlin	sign 21079		Pole		Metal	Green	Defective	<b>0.1</b>	<b>0.3</b>	1.7	0.7	2/27/2019 15:01
14	Exterior	Cromwell/Berlin	sign 21079		Pole		Metal	Green	Defective	<b>0.2</b>	<b>0.1</b>	1.8	6.4	2/27/2019 15:01
15	Exterior	Cromwell/Berlin	sign 21079		Pole		Metal	Green	Defective	<b>0.3</b>	<b>0.1</b>	1.9	4.8	2/27/2019 15:02
16	Exterior	Cromwell/Berlin	sign 21079		Pole		Metal	Green	Defective	<b>0.1</b>	<b>0.0</b>	1.1	3.8	2/27/2019 15:02
17			<b>0.0 Calibration</b>							0.0	0.0	1.0	1.4	2/27/2019 15:12
18			<b>1.6 Calibration</b>							1.4	0.3	1.1	3.3	2/27/2019 15:13
19			<b>3.6 Calibration</b>							4.0	0.2	1.4	10.4	2/27/2019 15:13
20	Exterior	Cromwell/Berlin	sign 21026		Pole		Metal	Green	Intact	<b>0.1</b>	<b>0.1</b>	2.2	7.3	2/27/2019 15:26
21	Exterior	Cromwell/Berlin	sign 21026		Pole		Metal	Green	Intact	<b>0.2</b>	<b>0.1</b>	2.6	8.7	2/27/2019 15:26
22	Exterior	Cromwell/Berlin	sign 21026		Pole		Metal	Green	Intact	<b>0.2</b>	<b>0.1</b>	2.7	5.0	2/27/2019 15:27
23			<b>0.0 Calibration</b>							0.0	0.0	1.0	1.6	2/27/2019 15:28
24			<b>1.6 Calibration</b>							1.5	0.4	1.1	1.9	2/27/2019 15:28
25			<b>3.6 Calibration</b>							3.4	0.6	1.3	2.3	2/27/2019 15:29
26			<b>Self Calibration</b>										176.9	2/27/2019 15:42
27			<b>0.0 Calibration</b>							0.0	0.0	1.0	1.4	2/27/2019 15:44
28			<b>1.6 Calibration</b>							1.5	0.2	1.1	3.3	2/27/2019 15:45
29			<b>3.6 Calibration</b>							3.3	0.2	1.3	16.0	2/27/2019 15:46
30	Exterior	Cromwell/Berlin	Sign 21027		Pole		Metal	Green	Intact	0.0	0.0	1.0	1.6	2/27/2019 15:48
31	Exterior	Cromwell/Berlin	Sign 21027		Pole		Metal	Green	Intact	<b>0.2</b>	<b>0.1</b>	5.6	4.0	2/27/2019 15:48
32	Exterior	Cromwell/Berlin	Sign 21027		Pole		Metal	Green	Intact	0.0	0.0	1.0	1.4	2/27/2019 15:48
33	Exterior	Cromwell/Berlin	Sign 21027		Pole		Metal	Green	Intact	<b>0.3</b>	<b>0.2</b>	5.9	3.6	2/27/2019 15:49
34	Exterior	Cromwell/Berlin	sign 21081		Pole		Metal	Green	Intact	0.0	0.0	1.0	1.6	2/27/2019 16:00
35	Exterior	Cromwell/Berlin	sign 21081		Pole		Metal	Green	Intact	0.0	0.0	1.0	1.4	2/27/2019 16:00
36	Exterior	Cromwell/Berlin	sign 21081		Pole		Metal	Green	Intact	0.0	0.0	1.0	1.4	2/27/2019 16:00
37	Exterior	Cromwell/Berlin	sign 21081		Pole		Metal	Green	Intact	0.0	0.0	1.0	1.9	2/27/2019 16:00
38	Exterior	Cromwell/Berlin	sign 21081		Pole		Metal	Green	Intact	0.0	0.0	1.0	1.6	2/27/2019 16:00
39			<b>0.0 Calibration</b>							0.0	0.0	1.0	1.6	2/27/2019 16:10
40			<b>1.6 Calibration</b>							1.6	0.4	1.2	1.9	2/27/2019 16:10
41			<b>3.6 Calibration</b>							3.5	0.3	1.3	4.7	2/27/2019 16:10
42			<b>Self Calibration</b>										179.0	3/4/2019 11:38
43			<b>0.0 Calibration</b>							0.0	0.0	1.0	1.4	3/4/2019 11:40
44			<b>0.7 Calibration</b>							0.7	0.1	1.1	3.3	3/4/2019 11:40
45			<b>1.6 Calibration</b>							1.6	0.1	1.2	6.4	3/4/2019 11:41
46	Exterior	Cromwell/Berlin	Sign 21033 RT 9		Pole	--	Metal	Green	Defective	0.0	0.0	1.0	1.7	3/4/2019 11:42
47	Exterior	Cromwell/Berlin	Sign 21033 RT 9		Pole	--	Metal	Green	Defective	0.0	0.0	1.0	1.4	3/4/2019 11:43

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

Side A = Street side; Sides B,C,D follow clockwise



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 Inspectors: Pat Schaffner & Tyler Macgillivray

Number	Interior/ Exterior	Location	Sign No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm <sup>2</sup> )	Precision (mg/cm <sup>2</sup> )	Depth Index	Duration (sec)	Date/Time
48	Exterior	Cromwell/Berlin	Sign 21033 RT 9		Pole	--	Metal	Green	Defective	0.0	0.0	1.0	1.4	3/4/2019 11:43
49	Exterior	Cromwell/Berlin	Sign 21033 RT 9		Pole	--	Metal	Green	Defective	0.0	0.0	1.0	1.4	3/4/2019 11:43
50	Exterior	Cromwell/Berlin	Sign 21033 RT 9		Pole	--	Metal	Green	Defective	0.0	0.0	1.0	1.4	3/4/2019 11:43
51	Exterior	Cromwell/Berlin	Sign 21038 rt 9		Pole	--	Metal	Green	Defective	0.0	0.1	3.2	1.7	3/4/2019 11:48
52	Exterior	Cromwell/Berlin	Sign 21038 rt 9		Pole	--	Metal	Green	Defective	0.0	0.0	2.9	6.9	3/4/2019 11:49
53	Exterior	Cromwell/Berlin	Sign 21038 rt 9		Pole	--	Metal	Green	Defective	0.0	0.0	1.0	1.4	3/4/2019 11:49
54	Exterior	Cromwell/Berlin	Sign 21038 rt 9		Pole	--	Metal	Green	Defective	0.0	0.0	1.0	1.5	3/4/2019 11:50
55			<b>0.0 Calibration</b>							0.0	0.0	1.0	1.5	3/4/2019 13:01
56			<b>0.7 Calibration</b>							0.7	0.2	1.2	2.2	3/4/2019 13:01
57			<b>1.6 Calibration</b>							1.6	0.4	1.2	2.1	3/4/2019 13:01
58			<b>0.0 Calibration</b>							0.0	0.0	1.0	1.6	3/4/2019 14:33
59			<b>0.7 Calibration</b>							0.7	0.2	1.1	1.5	3/4/2019 14:33
60			<b>1.6 Calibration</b>							1.5	0.3	1.2	2.8	3/4/2019 14:33

Client: Mr. Patrick Schaffner  
TRC Environmental Consultants  
21 Griffin Rd., North  
Windsor, CT 06095

# Analytical Report

## CET# 9030091R2

Report Date: March 12, 2019  
Project: DOT Sign Replace RT 9-15  
Project Number: 289951.5849.0710

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

CET #: 9030091

Project: DOT Sign Replace RT 9-15

Project Number: 289951.5849.0710

**SAMPLE SUMMARY**

The sample(s) were received at 22.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
21075	9030091-01	Paint Chip	2/27/2019 14:00	03/06/2019
21033	9030091-02	Paint Chip	3/04/2019 9:50	03/06/2019
21079	9030091-03	Paint Chip	2/27/2019 15:00	03/06/2019
21027	9030091-04	Paint Chip	2/27/2019 13:00	03/06/2019

**Analyte: TCLP Lead [EPA 6020A]**

**Analyst: CED**

**Prep: EPA 3005A-1311**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time	Notes
								Analyzed	
9030091-01	21075	0.63	0.013	mg/L	1	B9C0721	03/07/2019	03/07/2019 16:03	
9030091-02	21033	0.15	0.013	mg/L	1	B9C0721	03/07/2019	03/07/2019 16:08	
9030091-03	21079	0.92	0.013	mg/L	1	B9C0721	03/07/2019	03/07/2019 16:13	
9030091-04	21027	0.19	0.013	mg/L	1	B9C0721	03/07/2019	03/07/2019 16:28	

CET # : 9030091

Project: DOT Sign Replace RT 9-15

Project Number: 289951.5849.0710

### **CASE NARRATIVE**

Revision: Original report dated 3/8/2019; project number revised per client request.

Revision2: Original report dated 3/11/2019; project number revised per client request.

CET #: 9030091

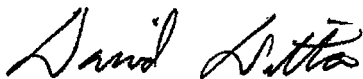
Project: DOT Sign Replace RT 9-15

Project Number: 289951.5849.0710

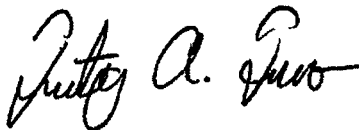
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

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- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No 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.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

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 or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

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

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

CET # : 9030091

Project: DOT Sign Replace RT 9-15

Project Number: 289951.5849.0710

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA 6020A in Water</i>	
Lead	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020





9030091

CF 7



21 GRUBIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

FAX (860) 298-6380

### TCLP CHAIN OF CUSTODY

Edition: November 2013  
Supersede Previous Edition

PROJECT NUMBER

289951-5849-0710

PROJECT NAME

DOT SIGN REPAIR  
RT 9-15

PARAMETERS

RCRA Pb  
RCRA Pb, AS, CR, CD  
8 RCRA Metals  
TCLP Pb  
SPLP Pb

LAB ID #

TURNAROUND TIME

24hr	48hr	3day	5day
	X		
24hr	48hr	3day	5day

INSPECTOR: (SIGNATURE)

*Pat Scharruel*

(PRINTED)

PAT SCHARRUEL

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	MATERIAL
			COMP	GRAB							
21075	2-27-19	1900			SIGN 21075 BERM				X		LIGHT GREEN PAINT
21033	3-4-19	0950			SIGN 21033 CROWNE			X			
21079	2-27-19	1500			SIGN 21079 BERM			X			
21027	2-27-19	1300			SIGN 21027 CROWNE			X			DARK GREEN PAINT

Relinquished by: (Signature) <i>Pat Scharruel</i>	Date: 3-4-19	Received by: (Signature) <i>Greg Gilroy</i>	228	Relinquished by: (Signature) <i>Greg Gilroy</i>	Date: 3/6/19	Received by: (Signature) <i>Pat Scharruel</i>
(Printed) PATRICK SCHARRUEL	Time: 1800	(Printed) GREG GILROY	3/6/19	(Printed) GREG GILROY	Time: 1400	(Printed) PAT

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

21 GRIFFIN ROAD NORTH  
WINDSOR, CONNECTICUT 06095  
TELEPHONE (860) 298-9692  
FAX (860) 298-6380

LAB ID #. 53436  
TURNAROUND TIME  
8hr 24hr 48hr 3day  
24hr 48hr 3day 5day

PROJECT NUMBER		PROJECT NAME		PARAMETERS		
289951-5849-0710		DOT Saw REPAIR		PLM EPA 600/R9/116 (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)
SIGNATURE		INSPECTOR		PLM EPA 600/R9/116 (POSITIVE STOP)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	
<i>[Signature]</i>		PAT SCHAFNER				
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	MATERIAL	
01	3-4-19			SIGN 21027		CAULK AT BASE
02						

Relinquished by: (Signature)		Received by: (Signature)		Date:		Received by: (Signature)	
<i>[Signature]</i>		<i>[Signature]</i>		3/5/19			
(Printed)		(Printed)		Time:		(Printed)	
PAT SCHAFNER		PAT SCHAFNER		1800		0900	
Remarks:				Condition of Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
				Comments:			
				Page of			



**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Transportation

Lab Log #: 0053436  
 Project #: 289951.5849.0710  
 Date Received: 03/05/2019  
 Date Analyzed: 03/05/2019

Site: Sign 21027

**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	White/Tan (caulk)	Yes	No	--	---	Trace	Chrysotile
02	White/Tan (caulk)	Yes	No	--	---	Trace	Chrysotile

Reporting limit- asbestos present at 1%  
 ND - asbestos was not detected  
 Trace - asbestos was observed at level of less than 1%  
 NA/PS - Not Analyzed / Positive Stop  
 SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2019. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2019. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson Reviewed by: Cathryn Lemire Date Issued: 03/05/2019  
 Kathleen Williamson, Laboratory Manager Cathryn Lemire, Approved Signatory

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0 AIHA-LAP, LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411  
 RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907  
 CO# AL-15020 PHIL# 461 PA#68-03387

NT 12/100

**Proscience Analytical Services, Inc.**

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857  
 TEM Bulk Chain of Custody Record

Date: 03/05/19

PO#: C289951

Client: TRC

Client Job#: 289951.5849.0710

Client Job Ref./Loc.: CT DOT- Sign 21027

Relinquished by: K. Williamson- KWilliamson@trcsolutions.com

Received by: *Plimpton*

Report to: E. Plimpton- EPlimpton@trcsolutions.com & S. Arienti@trcsolutions.com

Samplers Name: P. Schaffner

Analysis Type: Chatfield EPA N.O.B Qualitative

Turnaround Time: <12 Hour <24 Hour <48 Hour <3 Day 5 Day Other:

Client ID #	Lab ID#	Description	Location	For Lab Use Only		
				Acceptable on Receipt	Comments	
02	53436	Caulk	See COC			
For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

# ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801  
 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail: general@proscience.net

# Laboratory Report

Client Project #: 289951.5849.0710  
 Client Reference: CT DOT - Sign 21027  
 PO #: C289951  
 Client #: 297  
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17700  
 Method: NOB  
 Date Received: 3/6/2019  
 Date Analyzed: 3/8/2019  
 Date of Report: 3/8/2019

LAB ID	Field ID	Description:	Color	Initial Weight	CHR	AMO	ACT	CRO	ANT	TRE	% Other Non-asp.	% Organic Carb.	% Asbestos	Total % Analyzed / Charged	Preped / Charged	
NT133197 02		Caulk		.2761	.00	.00	.00	.00	.36	.00	71.96	24.56	3.48	TR	Yes	No

**Comments:**

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

  
 Mark Derosier, Analyst

## ConnDOT, Route 9 and Berlin Turnpike sign survey, , , Berlin/Cromwell, , CT, , ,

Created	2019-02-27 10:21:16 EST by Catie Lemire
Updated	2019-03-26 10:24:47 EDT by Stephen Arienti
Location	41.6001162, -72.6763585
Status	<span style="color: blue;">■</span> Survey Complete

### Job Information

Site Name	Route 9 and Berlin Turnpike sign survey
Address	Berlin/Cromwell, CT
TRC Project Number	289951.5849.0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Pat Schaffner, Catie Lemire, Michael Stewart, Tyler Macgillivray
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
Date	2019-02-27
General Notes	Niton 7587 rental used for xrf.

Overview Photo



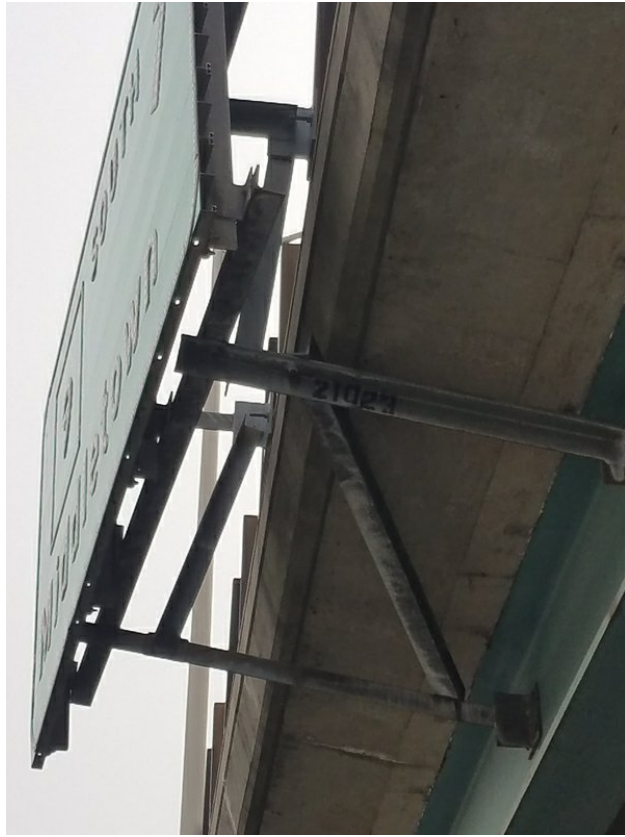
sign 1402



sign 1402



sign 1402



sign 1409



sign 1409





sign 1409



sign 1409



sign 1403



sign 1403



sign 1403



sign 1403



sign 1404



sign 1404



sign 1206



sign 1206



sign 1207



sign 1207



sign 1211



sign 1211



sign 1210



sign 1210





sign 1209



sign 1209



sign 1208



sign 1208



sign 1212



sign 1212



sign 1201



sign 1201



sign 1201



sign 1213



sign 1213



sign 1301



sign 1301



sign 1301



sign 1301



sign 1204





sign 1204



sign 1203



1203



sign 1203



sign 1303



sign 1204



sign 21079



sign 21079



sign 21026



sign 21026



sign 21026



sign 21027



sign 21027



sign 21027



sign 21081



sign 21081





sign 21081



Sing 21033



Sign 21033



Sign 1109

Surveys Performed	Asbestos, XRF
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**XRF Section**

XRF Survey Completed	N/A
XRF Data Downloaded	N/A
XRF Shots >1.0 on non-metallic building materials	Yes

**General Information**

Asbestos Samples Submitted to TRC Lab	No
App Name	WinBSI HBM Survey 1.0

## Generate Report Documentation

Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address. Please report any difficulties or errors to Justin Coleman.

---

What documents should be generated?	Hazardous material inventory, Photographs and other images
Where should the document(s) be sent?	sarienti@trcsolutions.com
Generate Documents	N/A

---

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
Bureau of Engineering and  
Construction

*memorandum*

**Subject:** Preliminary Design Review Request  
Project No. 0007-0189  
Replacement of Existing Signing on Routes 9  
(MP 24.65 to MP 34.48), 5/15 (MP 68.02 to  
73.40), & SR 571 (MP 00.00 to 01.25)  
Towns of Cromwell and Berlin  
**Date:** October 22, 2018

**to** Donald L. Ward  
District Engineer  
District 1 Construction

**From** Mark F. Makuch  
Principal Engineer  
Traffic Engineering – Project Design

Barry A. Schilling, P.E.  
For Mark F. Makuch  
2018.10.19  
15:28:27-04'00'

5849

Traffic Engineering is developing plans to replace major and minor signing on Route 9 Northbound and Southbound, including entrance and exit ramps, from the Cromwell/Middletown town line to the Berlin/New Britain town line. The project limits also include the entirety of SR 571 (Route 9 and 71A connector) and Route 5/15 (Berlin Turnpike) within the Town of Berlin from North Colony Road to Rowley Street. The project's intent is to replace all highway signing along the Route 9 corridor, including entrance and exit ramps, within the project limits, that have exceeded their useful service life or whose reflectivity is diminished, as well as sign supports that have been deemed structurally deficient. Replacement of the highway signing will include removing existing overhead, cantilever, and side mounted signs and sign support structures and installing new signs on new overhead, cantilever, and side mounted support structures.

Included in the Bluebeam Session for review are the preliminary design signing plans and calendar day chart. Also included in the Bluebeam Session for reference is the project description. These plans show the locations of proposed major signing along Route 9, SR 571 (Route 9 and 71A connector), and Route 5/15 (Berlin Turnpike), as well as existing major signs that are not being replaced under the project (designated as "NIC"). All new overhead and side-mounted extruded aluminum signs will require the removal of existing foundations, posts, and support structures and the installation of new foundations, posts, and support structures. Additionally, minor sheet aluminum signs are also included in the project, but are not shown on the preliminary design plans.

Please join the Bluebeam Session and review the preliminary design plans and calendar day chart and provide any comments and/or pertinent information that would assist in furthering the project's design by November 30, 2018.

Project #0007-0189 PD Review  
Session ID: 039-196-744  
Session URL: <https://studio.bluebeam.com/join.html?ID=039-196-744>

Should you have any questions or comments relative to this material, please contact David Rundio at (860) 594-2727.

cc: Mark F. Carlino – Mark F. Makuch – Barry A. Schilling  
Mary Baier - Eric Tallarita

## PROJECT 7-189 ROUTE 9, 15, & SR 571 HIGHWAY RESIGNING

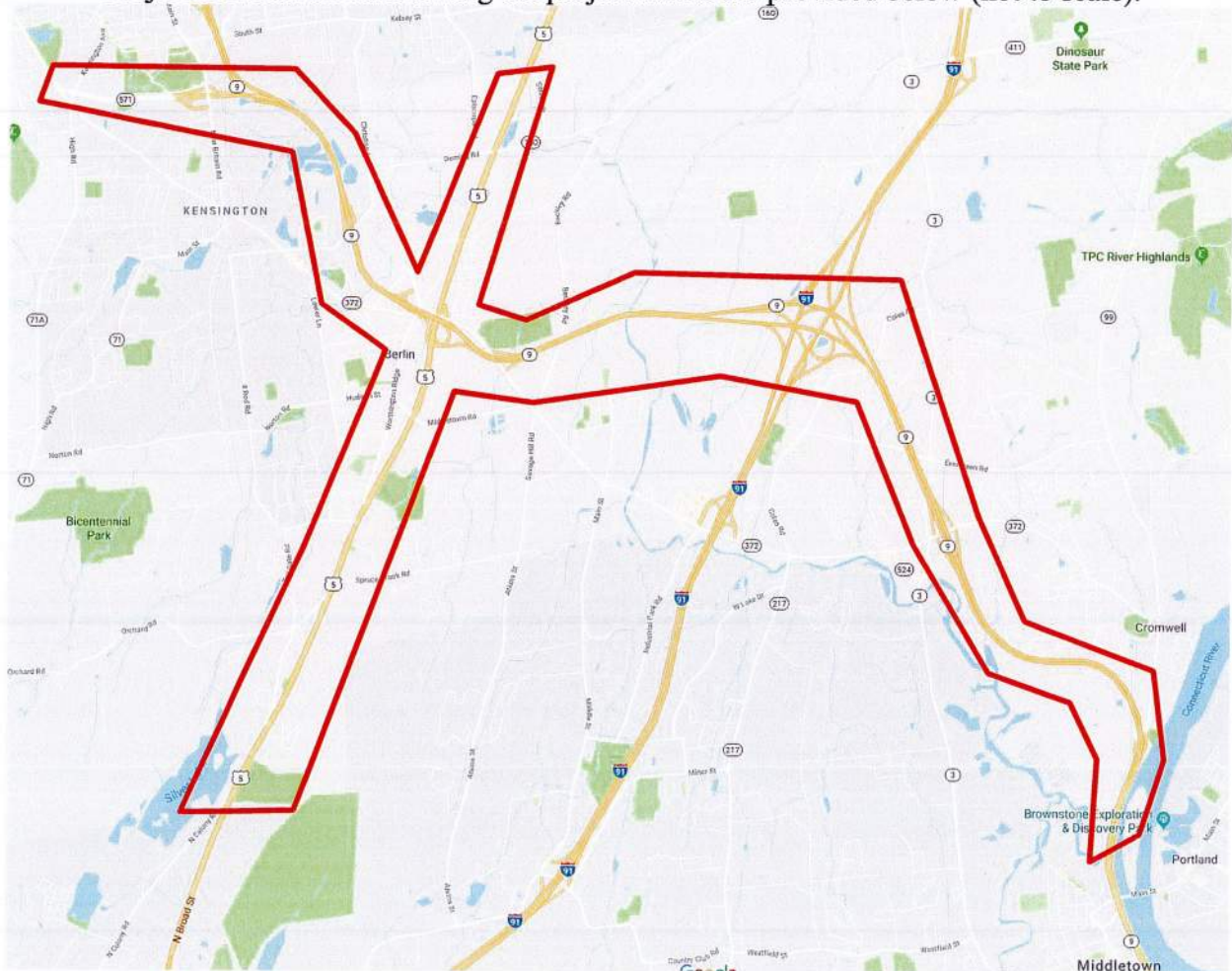
### PROJECT DESCRIPTION

Project No. 7-189 (Project) involves resigning CT Route 9 from Exit 18 in Cromwell to Exit 24 in Berlin and the expressway section of SR 571 (Route 9 and 71A Connector), including entrance and exit ramps. Also included within the project is Route 5/15 (Berlin Turnpike) within the Town of Berlin from North Colony Road to Rowley Street. The resigning includes replacing, relocating, and removing existing overhead and side mounted signs, installing additional signs if needed, and replacing deficient overhead sign supports. The following municipalities will be affected by this Project:

- Town of Cromwell
- Town of Berlin

### PROJECT LOCATION

Project location aerial showing the project limits are provided below (not to scale).



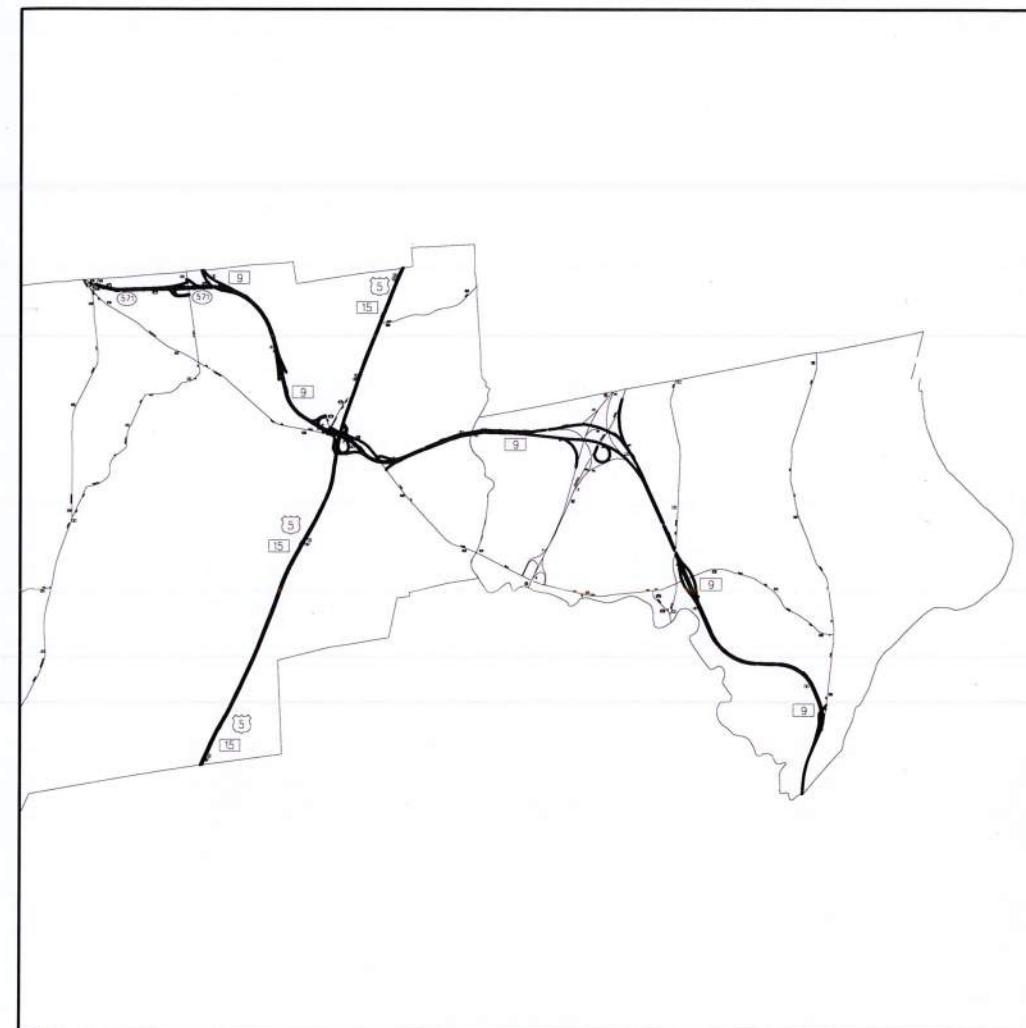
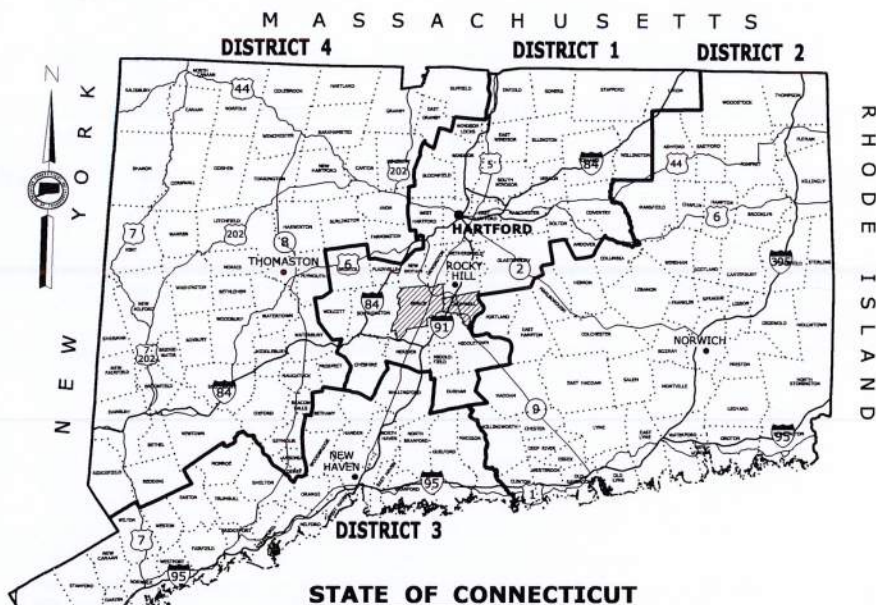


# CONNECTICUT DEPARTMENT OF TRANSPORTATION



## Plans For REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 9, 15, & SR 571 CONNECTOR

Town(s)/City of  
**CROMWELL & BERLIN**



**LOCATION PLAN**

NOT TO SCALE

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
Route 9	STATE	9.8 MILES
Route 15	STATE	5.4 MILES
SR 571 CONNECTOR	STATE	1.5 MILES

F.A.P. #	MAINTENANCE RESPONSIBILITY	PROJECT #
N/A	STATE	0007-0189

5849

**GENERAL NOTES:**

- FEDERAL AID PROJECT NO. N/A
- CONSTRUCTION SPECIFICATIONS: Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 817, dated 2016; Supplemental Specifications, dated July 2018; and Special Provisions
- 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM SYSTEM N.A.D. 1983
- VERTICAL DATUM BASED ON NAVD 1988
- SURVEYED BY: DISTRICT 1

**DISCLAIMER**

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICIAL SOURCES WITHIN THE DEPARTMENT.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE DEPARTMENT TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICIAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

LIST OF SUBSETS		
*THE INITIAL SUBSET SHEET COUNT DOES NOT INCLUDE ADDENDUMS AND CHANGE ORDERS		
SUBSET NO.	SUBSET TITLE	*SUBSET SHEET COUNT
# 01	GENERAL	2
# 02	REVISIONS	1
# 03	TRAFFIC	
# 04		
# 05		

LIST OF DRAWINGS SUBSET 01 - GENERAL	
DRAWING TITLE	DRAWING NO.
TITLE SHEET	G-1
DETAILED ESTIMATE SHEET	G-2

STANDARD CONVENTIONS			
North Arrow W/No. Coord.	Grid Arrow	Chain Link Fence	Water Edge
Edge Of Road	Limit Of Marsh	Rustic Fence	Stream
Concrete Pavement	Stone Wall	Pipe Fence	Ditch
Dirt Road	Ledge Outcrop	Board Fence	TOWN LINE
B.C.L.C.	Inland Wetland Limits	Property Line	Highway Line
Granite Curb	STATE LINE	Lot Line	Street Line
Guide Rail	Power Line	Easement Line	
Concrete Median Barrier	Swamp		
Bit. Walk	Building		
Conc. Sidewalk	Transmission Tower		
Railroad Tracks			

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

SUBMITTED BY: TRANSPORTATION PRINCIPAL ENGINEER - MARK F. MAKUCH, P.E.

APPROVAL RECOMMENDED BY: MANAGER OF TRAFFIC ENGINEERING - MARK F. CARLINO, P.E.

APPROVED BY: TRANSPORTATION ENGINEERING ADMINISTRATOR - SCOTT A. HILL, P.E.

**PRELIMINARY DESIGN REVIEW**

Plans For  
**REPLACEMENT OF HIGHWAY  
SIGNING ON ROUTE 9, 15,  
& SR 571 CONNECTOR**

Town(s)/City  
**CROMWELL & BERLIN**

STATE PROJECT NO.  
**0007-0189**

DRAWING NO.  
**G-1**

SHEET NO.  
**01.01**

**03 - TRAFFIC**  
**INDEX OF DRAWINGS**

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
TR-01	TRAFFIC - INDEX OF DRAWINGS		
TR-02	GENERAL SIGNING NOTES		
TR-03	INDEX OF PLANS		
TR-04 - TR-99	SIGNING MAINLINE		
TBD	CROSS SECTIONS		
TBD	TRAFFIC ENGINEERING GUIDE SHEETS X, Y, Z		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

**PRELIMINARY DESIGN REVIEW**

	<b>TOWN: CROMWELL &amp; BERLIN</b>	<small>PROJECT NO.</small> <b>0007-0189</b>
	<small>DRAWING TITLE:</small> <b>TRAFFIC INDEX OF DRAWINGS</b>	<small>DRAWING NO.</small> <b>TR-01</b>
		<small>SHEET NO.</small> 

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/19/2018

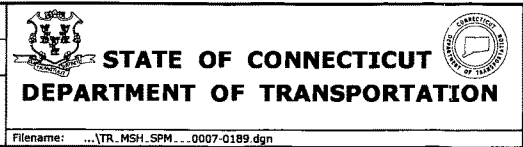
DESIGNER/DRAFTER:  
**DR**

CHECKED BY:  
**MAC**

SCALE IN FEET

0     200     400

SCALE 1"=200'



SIGNATURE/  
BLOCK:  
**OFFICE OF ENGINEERING**

APPROVED BY:

PROJECT TITLE:

**REPLACEMENT OF HIGHWAY  
SIGNING ON ROUTE 9,  
15, & SR 571 CONNECTOR**

**GENERAL SIGNING NOTES**

1. THE RELATIVE LOCATION OF EACH SIGN ON OVERHEAO STRUCTURES IS SHOWN READING ALPHABETICALLY FROM LEFT TO RIGHT AS VIEWEO BY TRAFFIC.
2. REFER TO EACH INDIVIDUAL SIGNING PLAN FOR "SIGNING INSTALLATION NOTES" WHICH ARE SPECIFIC TO EACH SIGN WITHIN THE PROJECT.
3. ALL SIGN FOUNDATIONS SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY AN ENGINEER FROM THE DIVISION OF TRAFFIC ENGINEERING OR DESIGNEE A MINIMUM OF 7 DAYS PRIOR TO INSTALLATION.
4. ALL EXTRUDEO ALUMINUM SIGNS, SIDE MOUNTEO SUPPORTS, AND FOUNDATIONS LOCATED WITHIN THE SIGNING LIMITS ARE TO BE REMOVED UNLESS OTHERWISE NOTEO. ALL OVERHEAD AND BRIDGE MOUNTEO SUPPORTS ARE TO BE REMOVED UNLESS OTHERWISE NOTEO.
5. ALL PROPOSED EXTRUDEO ALUMINUM SIGNS ARE TO BE NEW SIGNS ON NEW SUPPORT(S) AND FOUNDATION(S) UNLESS OTHERWISE NOTEO.
6. ALL SHEET ALUMINUM SIGNS LOCATED WITHIN THE SIGNING LIMITS ON ROUTE 9 ARE TO BE REMOVED UNLESS OTHERWISE NOTEO. ALL SHEET ALUMINUM SIGNS SHOWN ON ALL OTHER ROADWAYS ARE TO BE REMOVED UNLESS OTHERWISE NOTEO OR AS OIRECTEO BY THE ENGINEER.
7. ALL PRIVATE AND CITY/TOWN OWNED SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTEO.
8. THE REMOVAL OF EXISTING SIDE-MOUNTEO EXTRUDEO ALUMINUM SIGNS, SIGN SUPPORTS, FOUNDATIONS AND SHEET ALUMINUM SIGNS AND POSTS, AS WELL AS BRIDGE MOUNTEO SHEET ALUMINUM SIGNS, WILL BE PAIO FOR UNDER ITEM NO. 1206013: REMOVAL OF EXISTING SIGNS.
9. THE REMOVAL OF EXISTING OVERHEAD SIGNS WILL BE PAIO FOR UNDER ITEM 1206011: REMOVAL OF EXISTING OVERHEAD SIGNING.
10. CERTAIN OVERHEAD SIGN SUPPORTS HAVE BEEN IDENTIFEO AS CONTAINING HAZARDOUS LEVELS OF LEAD. REFER TO THE SPECIAL PROVISIONS FOR ITEM NOS. 0020903A: LEAD COMPLIANCE FOR MISCELLANEOUS EXTERIOR TASKS FOR THE REQUIRED PROCEDURES FOR REMOVING AND HANDLING HAZARDOUS MATERIALS, AS WELL AS A LISTING OF THE SPECIFIC CONTAMINATION LOCATIONS.
11. "CALL BEFORE YOU DIG" (C.B.Y.D.), CT DOT HIGHWAY OPERATIONS, AND CT OOT ELECTRICAL SHALL BE CONTACTEO PRIOR TO THE INSTALLATION OF ANY NEW SIGNS.
12. THE CONTRACTOR SHALL CLEAR, GRUB, AND TRIM AS OIRECTEO BY THE ENGINEER TO PROVIDE ADEQUATE SIGHTLINE TO THE SIGNS. THIS WORK SHALL BE PAID FOR UNDER ITEM NO. 0952001A: SELECTIVE CLEARING AND THINNING AND ITEM NO. 0201001: CLEARING AND GRUBBING.
13. INCIDENT MANAGEMENT SYSTEM (IMS) EQUIPMENT IS NOT INCLUDED IN THE CONTRACT UNLESS SPECIFIED OTHERWISE.
14. N.I.C. (XXX-XXXX): OENOTES NOT IN CONTRACT AND PROJECT NUMBER INCLUDED UNDER (IF APPLICABLE).
15. SHEET ALUMINUM AND EXTRUDEO ALUMINUM LOGO SERVICE SIGNS ARE TO BE NOT IN CONTRACT (N.I.C.) UNLESS OTHERWISE SHOWN ON THE PLANS.
16. WHEN A SIGN IS TO BE REPLACED, THE EXISTING SIGN SHOULD NOT BE REMOVED UNTIL THE REPLACEMENT SIGN IS INSTALLED.
17. SIGNS SHALL NOT BE PLACEO LESS THAN 10 FEET FROM UTILITY POLES.
18. INSTALL NEW MILE MARKER SIGNS (SIGN NO. 51-5307) ON ROUTE 9 NB & SB AT ONE MILE INTERVALS WITHIN THE PROJECT LIMITS. INSTALL NEW MILE MARKER SIGNS (SIGN NOS. 51-5104 & 51-5302) ON ROUTE 9 NB & SB AT 0.20 MILE INTERVALS WITHIN THE PROJECT LIMITS. EACH LOCATION SHALL BE MEASUREO AND VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION. NOTE THAT THESE SIGNS ARE NOT SHOWN ON THE PLANS. THIS WORK WILL BE PAID FOR UNDER ITEM NO. 120B931: SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING).
19. OELINEATORS SHALL BE INSTALLEO WITHIN THE PROJECT LIMITS ON THE ROUTE B MAINLINE, RAMPS, AND TURNINGS ROADWAYS. EXISTING WHITE AND YELLOW OELINEATORS ARE TO BE REMOVED IN AREAS WHERE NEW ONES ARE INSTALLED. INSTALL DELINEATORS IN ACCOROANCE WITH TRAFFIC ENGINEERING STANDARD DRAWINGS TR-1205-01: DELINEATION, DELINEATORS, AND OBJECT MARKER DETAILS.
20. ALL OBJECT MARKERS TO REMAIN UNLESS OTHERWISE NOTEO.
21. ALL CHEVRON SIGN (SIGN NO. 41-4211 & 41-4260) POSTS ARE TO HAVE RETROREFLECTIVE STRIP(SIGN NO. 41-500B) INSTALLED EXCEPT FOR THOSE INSTALLED ON BARRIER. REFLECTORS ARE TO BE PAIO FOR UNOER ITEM NO. 120B931: SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING). ALL NEW CHEVRON SIGNS ARE TO BE SPACEO 80 FEET APART UNLESS OTHERWISE NOTEO.
22. ALL RAMP SIGNS ARE TO HAVE A MINIMUM SPACING OF 100 FEET BETWEEN SIGNS WHERE FEASIBLE.

**OVERHEAD SIGN CROSS-SECTION NOTES**

1. ALL INFORMATION ON THE OVERHEAO SIGN CROSS-SECTION SHEETS ARE APPROXIMATE.
2. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PROVIDED ON THE OVERHEAO SIGN CROSS-SECTION SHEETS.
3. THE OVERHEAD SIGN CROSS-SECTION SHEETS ARE USED TO SHOW THE APPROXIMATE LOCATIONS OF THE SIGN SUPPORT FOUNDATIONS AND SIGNS RELATIVE TO THE ROADWAY LANES AND CROSS-SLOPE.
4. ALL OVERHEAO SIGNS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 18 FEET AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE HIGH POINT OF THE ROADWAY EXCLUDING BRIDGE MOUNTEO OVERHEAO SIGNS. BRIDGE MOUNTEO SIGNS SHALL BE INSTALLED SUCH THAT THE BOTTOM OF THE SIGN EXCEEOS THE VERTICAL CLEARANCE OF THE BRIOGE GIROERS BY A MINIMUM OF 1 FOOT.
5. ALL OVERHEAO SIGNS ARE TO BE INSTALLED VERTICALLY CENTERED ON THE HORIZONTAL MEMBER OF THE OVERHEAO SIGN SUPPORT, UNLESS A MINIMUM VERTICAL CLEARANCE OF 18 FEET CANNOT BE ACHIEVED.
6. ALL NEW OVERHEAO SIGN SUPPORTS SHALL BE INSTALLED SUCH THAT THE EDGE OF FOUNOATIONS ARE NOT LOCATED WITHIN THE OEFLECTION ZONE OF A GUIDERAIL OR OTHER BARRIER AS MEASUREO FROM THE BACK OF GUIDERAIL TO THE LEADING EDGE OF THE FOUNDATION.
7. ALL OVERHEAD SIGNS INSTALLEO ON THE SAME OVERHEAD SIGN SUPPORT SHALL HAVE A MINIMUM OF 1 FOOT SPACING BETWEEN SIGNS.
8. ALL VERTICAL OVERHEAD SIGN SUPPORT MEMBERS ARE SHOWN NOT TO SCALE UNLESS DIMENSIONED OTHERWISE.
9. NEW OVERHEAD SIGN SUPPORTS THAT REPLACE EXISTING OVERHEAD SIGN SUPPORTS ARE TO BE INSTALLEO AS NEAR THE EXISTING LOCATION AS FEASIBLE UNLESS OTHERWISE NOTEO.

**SIGN NUMBERING LEGEND**






MAINLINE 000X-000-00.00 X

000X = ROUTE WITH CARDINAL DIRECTION  
 000 = TOWN NUMBER  
 00.00 = APPROXIMATE MILE POINT  
 X = SIGN LETTER PER LOCATION


RAMPS 000X-000-R000-EX00 X

000X = ROUTE WITH CARDINAL DIRECTION  
 000 = TOWN NUMBER  
 R000 = SIGN ASSOCIATED RAMP NUMBER  
 EX00 = EXIT NUMBER FOR ASSOCIATED SIGN  
 X = SIGN LETTER PER LOCATION

**SYMBOL & BORDER LEGEND**

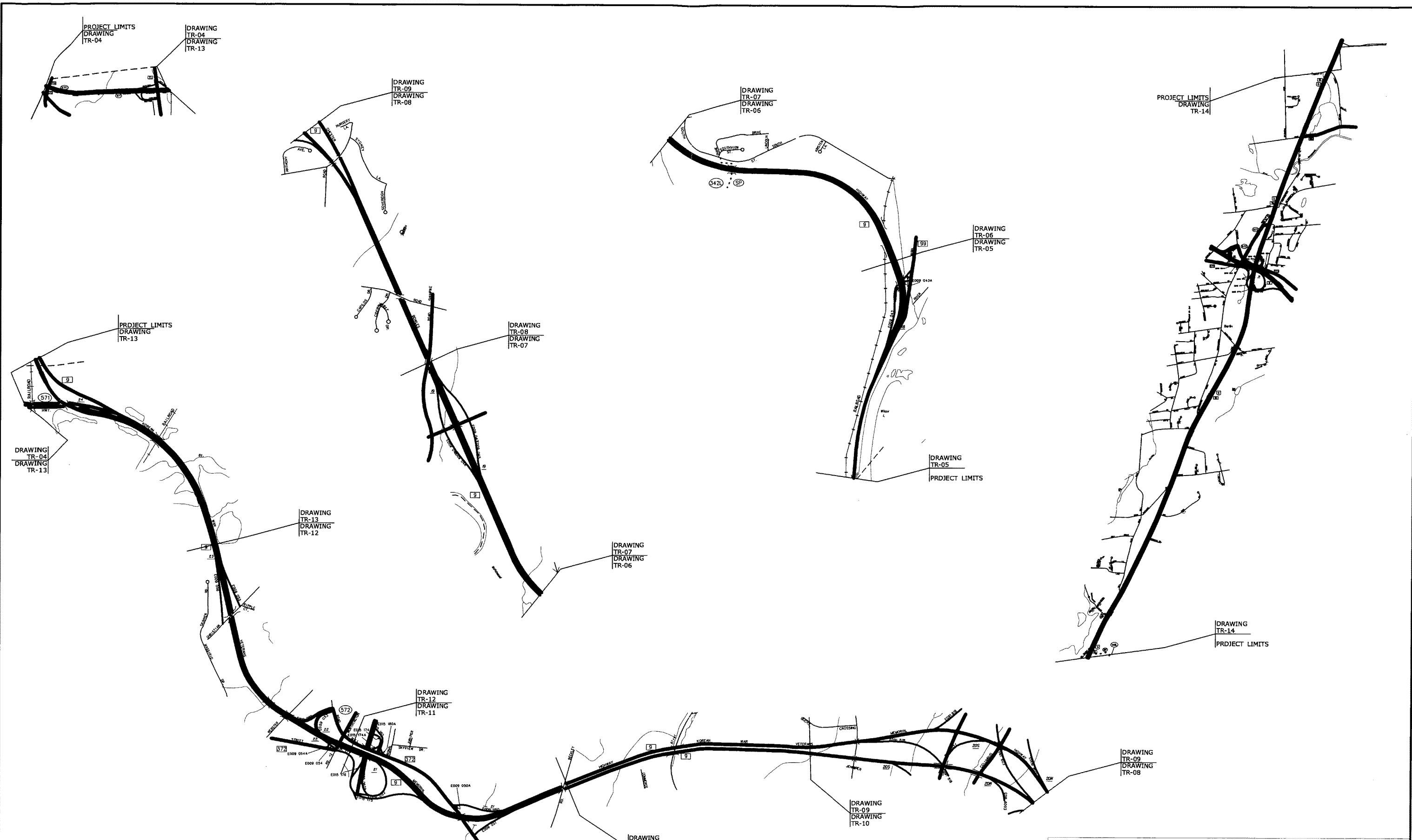
-  OVERHEAD SIGN SUPPORT
-  CANTILEVER SIGN SUPPORT
-  SIDE MOUNTEO EXTRUDEO ALUMINUM SIGN SUPPORT
-  SIDE MOUNTEO SHEET ALUMINUM SIGN SUPPORT (1, 2, 3 POST)
-  100-YR FEMA FLOOD PLAIN LIMIT

**PRELIMINARY DESIGN REVIEW**

REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/19/2018	DESIGNER/DRAFTER: DR CHECKED BY: MAC SCALE IN FEET 0 200 400 SCALE 1"=200'	 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SIGNATURE/BLOCK:  APPROVED BY:	PROJECT TITLE: <b>REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 9, 15, &amp; SR 571 CONNECTOR</b>	TOWN: <b>CROMWELL &amp; BERLIN</b>	PROJECT NO. <b>0007-0189</b>	DRAWING NO. <b>TR-02</b>
						DRAWING TITLE: <b>GENERAL SIGNING NOTES</b>	SHEET NO.

Filename: ...TR\_MSH\_SPM...0007-0189.dgn





**PRELIMINARY DESIGN REVIEW**

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CHECKED BY: MAC	SCALE IN FEET 0 200 400 SCALE 1"=200'	APPROVED BY:		DRAWING NO. <b>TR-03</b>			
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/19/2018			FILENAME: ...TR_MSH_SPM...0007-0189.dgn			DRAWING TITLE: <b>INDEX OF PLANS</b>	SHEET NO.

What will happen to the "71A North New Britain Right Lane" sign?

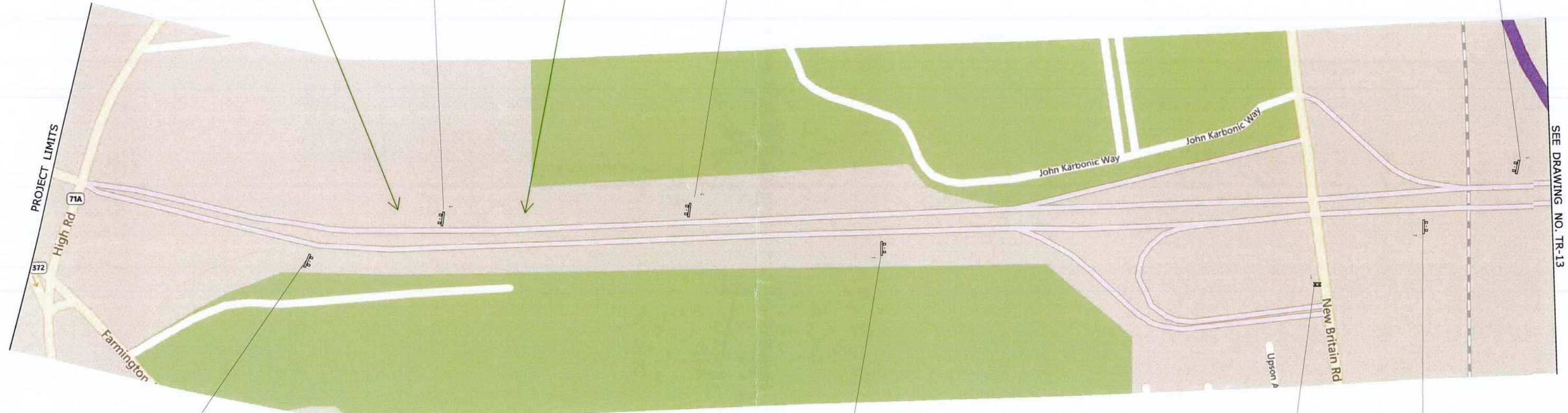
**THRU TRUCKS PROHIBITED AHEAD**

What will happen to the "Signal Ahead 1000 Feet" overhead cantilever sign?

**EXPRESSWAY ENDS 1/2 MILE**

*Galvanized - no paint  
No suspect ACM*

EXIT 1  
71  
Kensington



EXIT 1  
71  
Kensington  
1/2 MILE

*Galvanized - no paint  
No suspect ACM*

*Galvanized - no paint  
No suspect ACM*

EXIT 1  
71  
Kensington

*Galvanized - no paint  
No suspect ACM*

9 SOUTH  
Middletown  
9 SOUTH  
Middletown

*Galvanized - no paint  
No suspect ACM*

EXIT 23  
Christian Lane  
Berlin  
1 MILE

571E-007-00.19-A : 186,000 x 156,000  
ID: 404

571E-007-00.61-A : 186,000 x 132,000  
ID: 405

571E-007-R002-A : 114,000 x 78,000  
571E-007-R002-B : 114,000 x 78,000  
ID: 407

571E-007-01.01-A : 228,000 x 138,000  
ID: 408

**PRELIMINARY DESIGN REVIEW**

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	CHECKED BY: MAC					
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/19/2018	SCALE IN FEET 0 200 400 SCALE 1"=200'	FILENAME: ...TR_MSH_SPM...0007-0189.dgn	DRAWING TITLE: <b>SIGNING - MAINLINE</b>		SHEET NO.	

Middletown  
EXITS 16-10  
CITY LINE

*Galvanized  
No cavity*

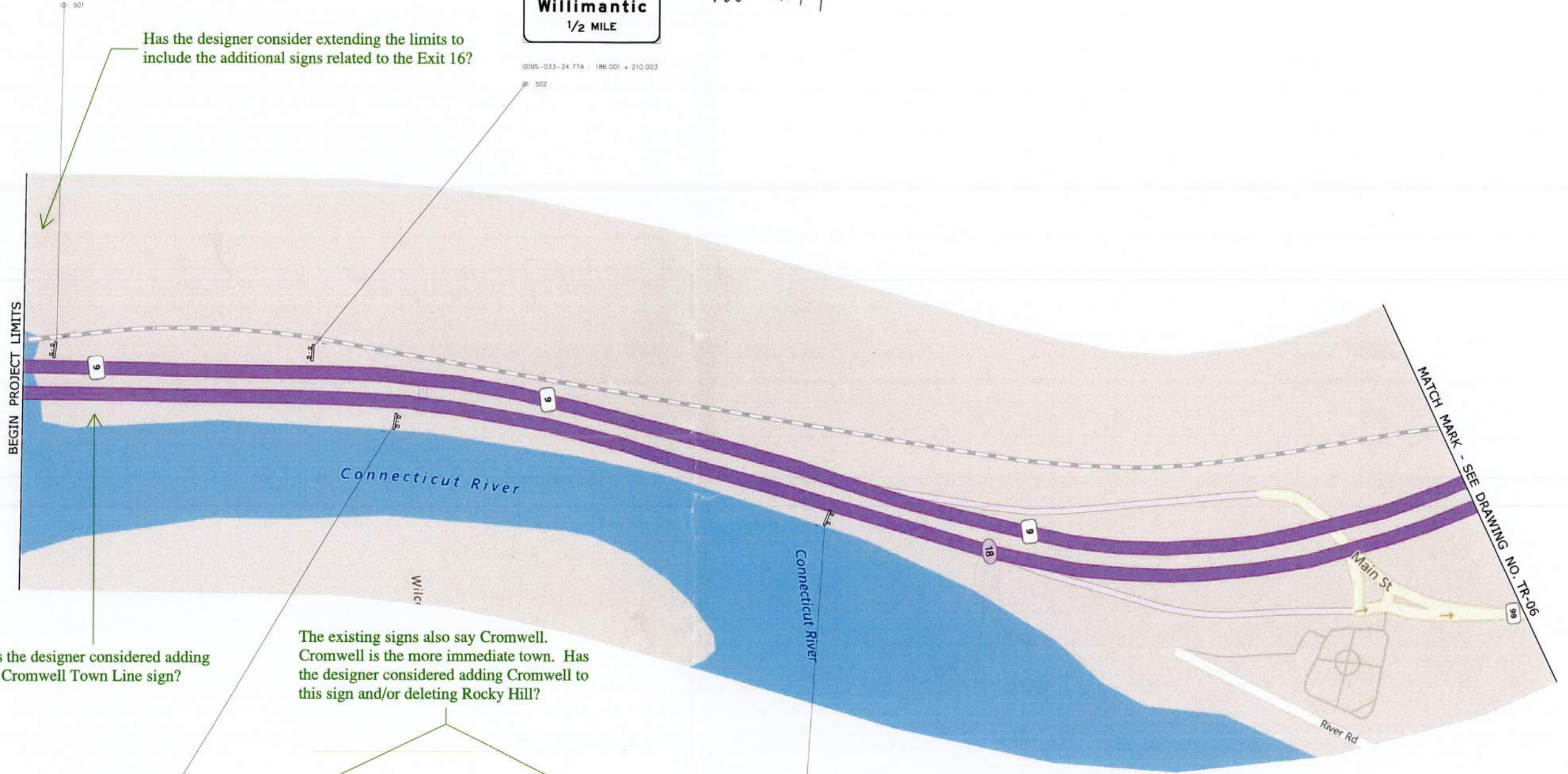
EXIT 16  
EAST NORTH  
66 17  
Portland  
Willimantic  
1/2 MILE

*Galvanized  
No cavity*



0095-033-24.67A : 156,000 x 102,000

0095-033-24.77A : 186,001 x 210,003



Has the designer consider extending the limits to include the additional signs related to the Exit 16?

Has the designer considered adding the Cromwell Town Line sign?

The existing signs also say Cromwell. Cromwell is the more immediate town. Has the designer considered adding Cromwell to this sign and/or deleting Rocky Hill?

What will be done with the existing Cromwell - Rocky Hill - 3/4 Mile sign?

EXIT 18  
99  
Rocky Hill  
1/2 MILE

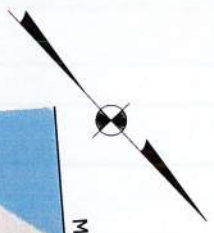
*Galvanized - no paint  
No suspect ACM*

EXIT 18  
99  
Rocky Hill

*overhead sign  
at Green S/A other 1/2 green  
No suspect ACM*

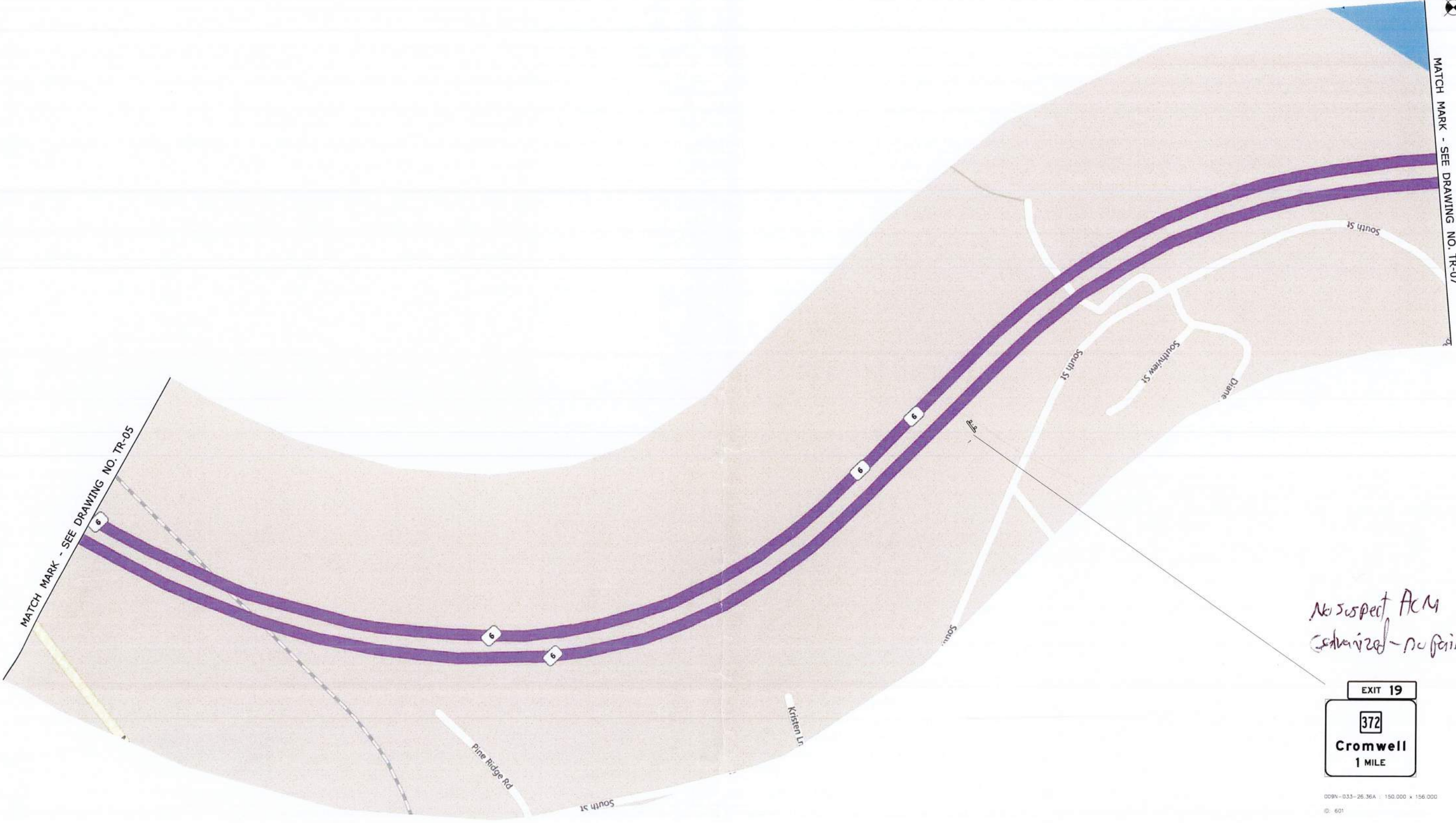
**PRELIMINARY DESIGN REVIEW**

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: DR	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: <b>REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 9, 15, &amp; SR 571 CONNECTOR</b>	TOWN: <b>CROMWELL &amp; BERLIN</b>	PROJECT NO. <b>0007-0189</b>
	CHECKED BY: MAC		APPROVED BY:	DRAWING TITLE: <b>SIGNING - MAINLINE</b>	DRAWING NO. <b>TR-05</b>	SHEET NO.
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/19/2018	SCALE IN FEET 0 200 400 SCALE 1"=200'	Filename: ...TR_MSH_SPM...0007-0189.dgn				



MATCH MARK - SEE DRAWING NO. TR-07

MATCH MARK - SEE DRAWING NO. TR-05



*No suspect ACM advised - no paint*

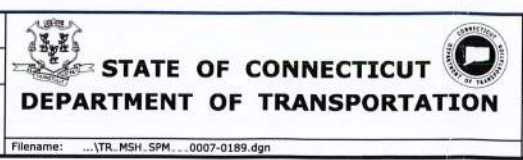


009N-033-26.36A : 150,000 x 156,000  
D: 601

**PRELIMINARY DESIGN REVIEW**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/19/2018

DESIGNER/DRAFTER: DR  
 CHECKED BY: MAC  
 SCALE IN FEET  
 0 200 400  
 SCALE 1"=200'

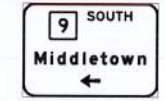


SIGNATURE/  
 BLOCK:  
 OFFICE OF ENGINEERING  
 APPROVED BY:

PROJECT TITLE:  
**REPLACEMENT OF HIGHWAY  
 SIGNING ON ROUTE 9,  
 15, & SR 571 CONNECTOR**

TOWN:  
**CROMWELL & BERLIN**  
 DRAWING TITLE:  
**SIGNING - MAINLINE**

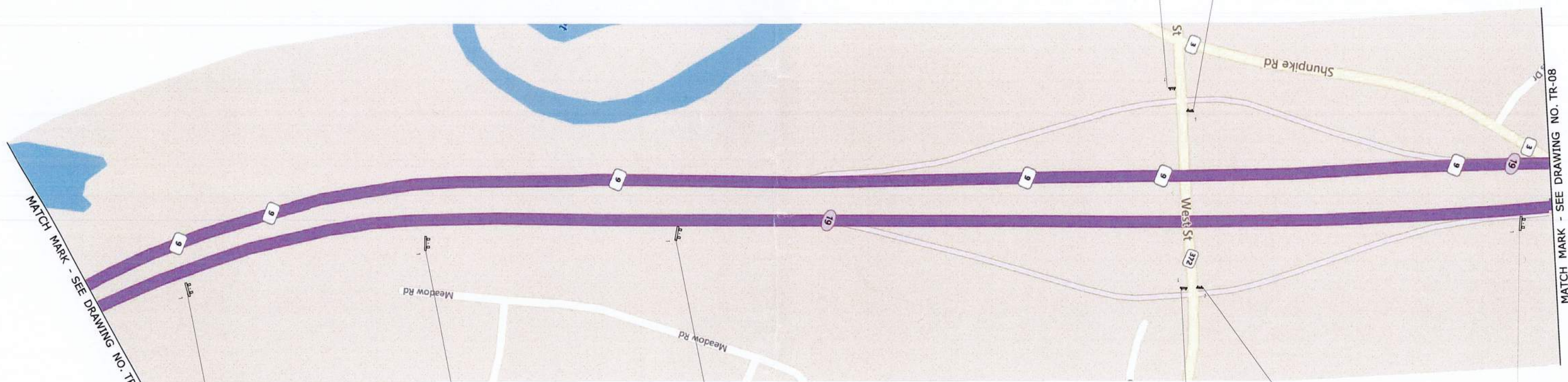
PROJECT NO.  
**0007-0189**  
 DRAWING NO.  
**TR-06**  
 SHEET NO.



0095-033-R044-A : 114,000 x 78,000  
ID: 707

0095-033-R044-B : 114,000 x 132,000  
ID: 708

*Galvanized - no paint  
No suspect ACM*



MATCH MARK - SEE DRAWING NO. TR-06

MATCH MARK - SEE DRAWING NO. TR-08

*Galvanized  
No suspect ACM*



009N-033-26.85A : 150,000 x 198,000  
ID: 701

*Not there  
No sign*



009N-033-27.03A : 132,000 x 114,000  
ID: 702

*Galvanized  
No suspect ACM*



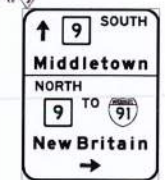
009N-033-27.24A : 150,000 x 132,000  
ID: 703

*sign says west st*

*Galvanized - no paint  
No suspect ACM*



009N-033-R047-B : 114,000 x 90,000  
ID: 706



009N-033-R047-A : 114,000 x 144,000  
ID: 705

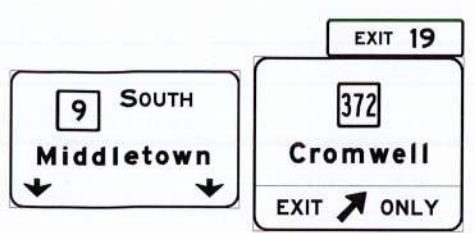
*Galvanized  
No suspect ACM*



41-5905 : 144,000 x 18,000  
52-5907 : 144,000 x 60,000  
ID: 704  
Replace Panels Only  
Posts and foundations to remain.

**PRELIMINARY DESIGN REVIEW**

REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/19/2018	DESIGNER/DRAFTER: DR CHECKED BY: MAC SCALE IN FEET 0 200 400 SCALE 1"=200'		SIGNATURE/BLOCK: <b>OFFICE OF ENGINEERING</b> APPROVED BY:	PROJECT TITLE: <b>REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 9, 15, &amp; SR 571 CONNECTOR</b>	TOWN: <b>CROMWELL &amp; BERLIN</b>	PROJECT NO. <b>0007-0189</b>



0095-033-27.95A : 192.000 x 114.000  
 0095-033-27.95B : 174.000 x 176.000  
 ID: 801  
 SSN: 21084

-unpainted  
 -NO ACM



0095-033-28.22A : 180.000 x 180.000  
 ID: 802  
 SSN: 21083

-unpainted  
 -NO ACM



0095-033-28.50A : 204.000 x 84.000  
 ID: 803  
 SSN: 21082  
 -Green paint  
 -NO ACM

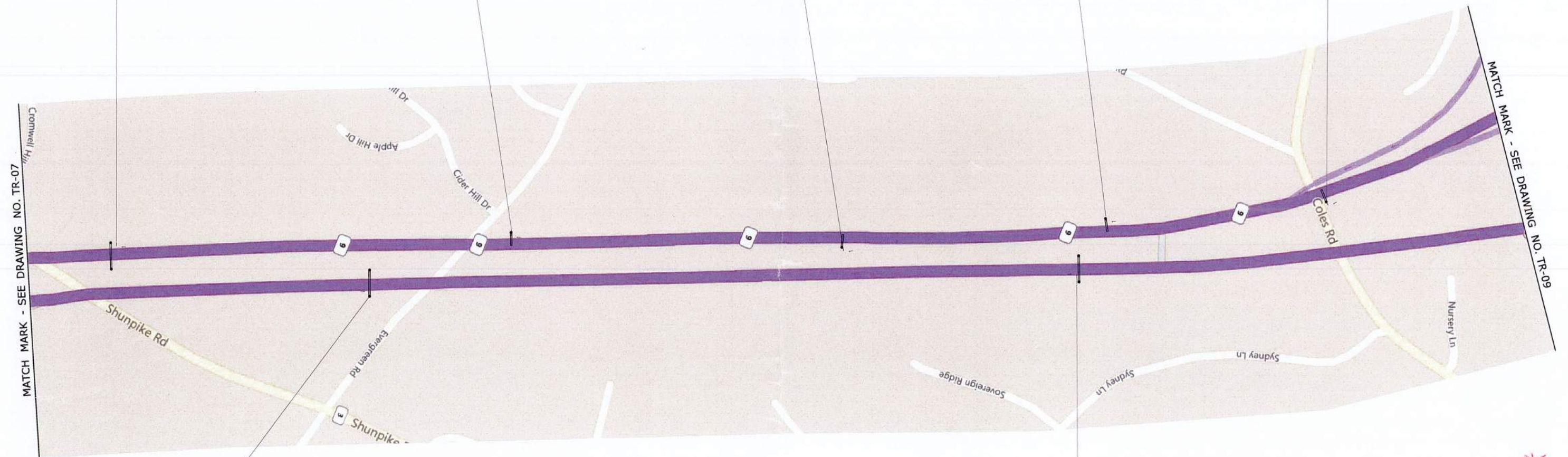


0095-033-28.70A : 180.000 x 196.000  
 ID: 804  
 SSN: 21081

-SAME LIGHT GREEN PAINT  
 -NO ACM  
 ND 0.10 0.02



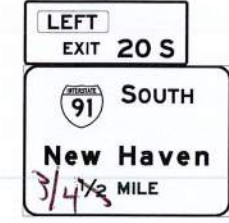
0095-033-28.86A : 204.000 x 108.000  
 ID: 805  
 SSN: 21080  
 bridge paint  
 un paint galu



009N-033-28.12A : 174.000 x 180.000  
 009N-033-28.12B : 180.000 x 180.000  
 ID: 806  
 SSN: 21026



-SAME LIGHT GREEN PAINT  
 -NO ACM



009N-033-28.67A : 174.000 x 180.000  
 009N-033-28.67B : 198.000 x 120.000  
 009N-033-28.67C : 216.000 x 168.000  
 ID: 807  
 SSN: 21027

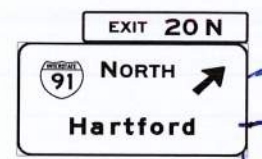


-SAME LIGHT GREEN PAINT  
 -DARK GREEN PAINT ON BOTTOM  
 PAINT SAMPLED  
 ONLY SAMPLED

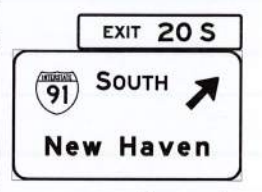
**PRELIMINARY DESIGN REVIEW**

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	CHECKED BY: MAC		OFFICE OF ENGINEERING APPROVED BY:		DRAWING TITLE: <b>SIGNING - MAINLINE</b>	DRAWING NO.: <b>TR-08</b>
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/19/2018	SCALE IN FEET 0 200 400 SCALE 1"=200'	File name: ...TR_MSH_SPM...0007-0189.dgn				

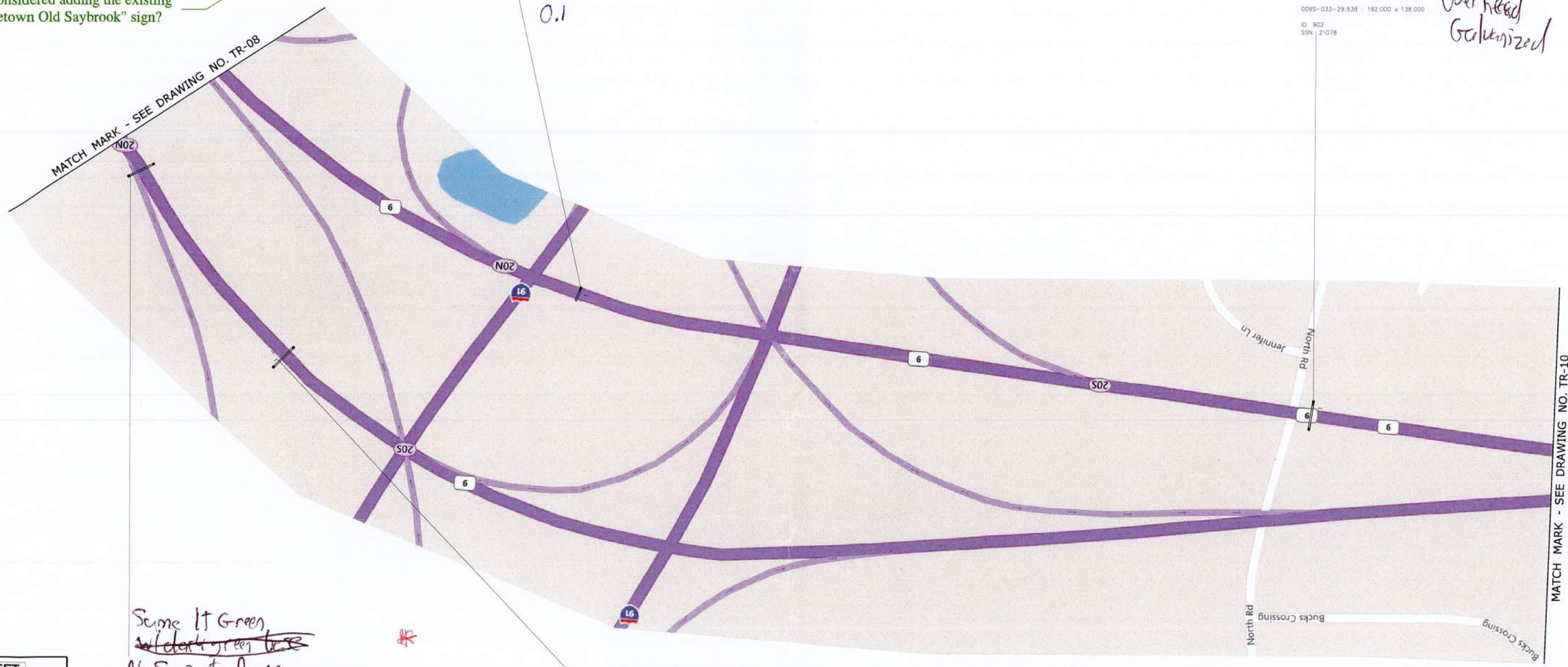
Has the designer considered adding the existing "Rt 9 South Middletown Old Saybrook" sign?



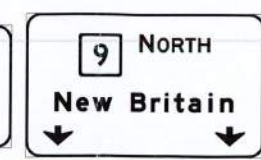
*PAINT SAMPLE*  
*NO ACM*  
*SAME LIGHT GREEN PAINT ON GALVANIZED*



*Overhead Galvanized*



*Some Lt Green*  
~~*with dark green base*~~  
*No Suspect ACM*



*Some Lt. Green paint*  
*could not safely access*

009N-033-29.02A : 174.000 x 180.000  
 009N-033-29.02B : 198.000 x 120.000  
 009N-033-29.02C : 216.000 x 168.000

ID: 903  
 SSN: 21031

009N-033-29.21A : 192.000 x 156.000  
 009N-033-29.21B : 198.000 x 120.000

ID: 909  
 SSN: 21032

**PRELIMINARY DESIGN REVIEW**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER: DR  
 CHECKED BY: MAC  
 SCALE IN FEET  
 0 200 400  
 SCALE 1"=200'



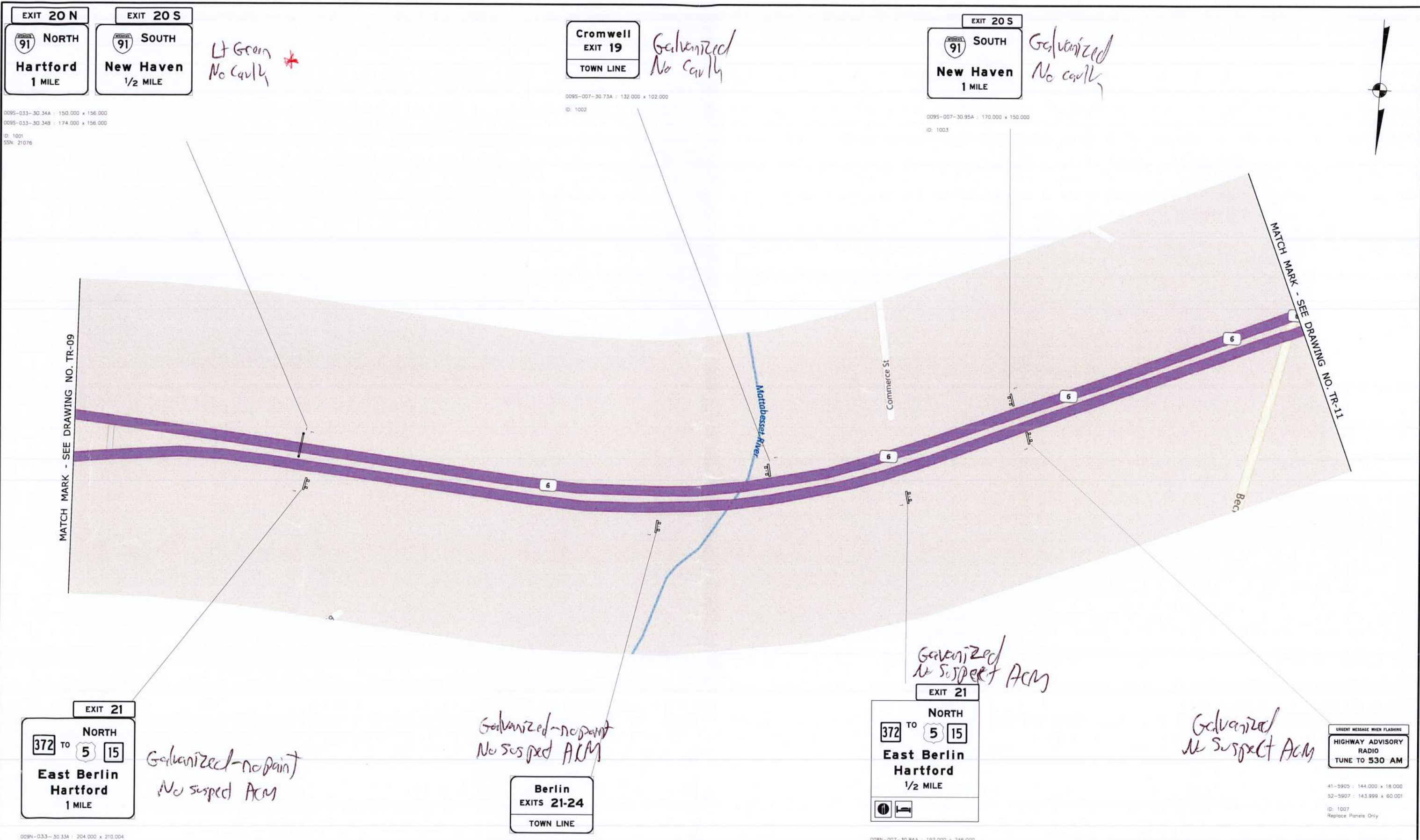
SIGNATURE/BLOCK:  
 OFFICE OF ENGINEERING  
 APPROVED BY:

PROJECT TITLE:  
**REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 9, 15, & SR 571 CONNECTOR**

TOWN: **CROMWELL & BERLIN**  
 DRAWING TITLE: **SIGNING - MAINLINE**

PROJECT NO.: **0007-0189**  
 DRAWING NO.: **TR-09**  
 SHEET NO.:

Filename: ...TR\_MSH\_SPM...0007-0189.dgn



0095-033-30.34A : 150,000 x 156,000  
 0095-033-30.34B : 174,000 x 156,000  
 ID: 1001  
 SSN: 21076

0095-007-30.73A : 132,000 x 102,000  
 ID: 1002

0095-007-30.95A : 170,000 x 150,000  
 ID: 1003

009N-033-30.35A : 204,000 x 210,004  
 ID: 1004

009N-033-30.63A : 150,000 x 102,000  
 ID: 1005

008N-007-30.84A : 192,000 x 246,000  
 ID: 1006

41-5905 : 144,000 x 18,000  
 52-5907 : 143,999 x 60,001  
 ID: 1007  
 Replace Panels Only

**PRELIMINARY DESIGN REVIEW**

REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/19/2018	DESIGNER/DRAFTER: DR CHECKED BY: MAC	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: <b>REPLACEMENT OF HIGHWAY SIGNING ON ROUTE 9, 15, &amp; SR 571 CONNECTOR</b>	TOWN: <b>CROMWELL &amp; BERLIN</b>	PROJECT NO.: <b>0007-0189</b>
	SCALE IN FEET 0 200 400 SCALE 1"=200'		APPROVED BY:		DRAWING TITLE: <b>SIGNING - MAINLINE</b>	DRAWING NO.: <b>TR-10</b>

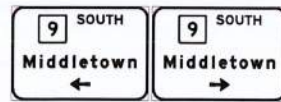
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Filename: ...TR\_MSH\_SPM...0007-0189.dgn



URGENT MESSAGE WHEN FLASHING  
HIGHWAY ADVISORY  
RADIO  
TUNE TO 530 AM

*Galvanized  
No cowl*



*Galvanized  
No cowl*

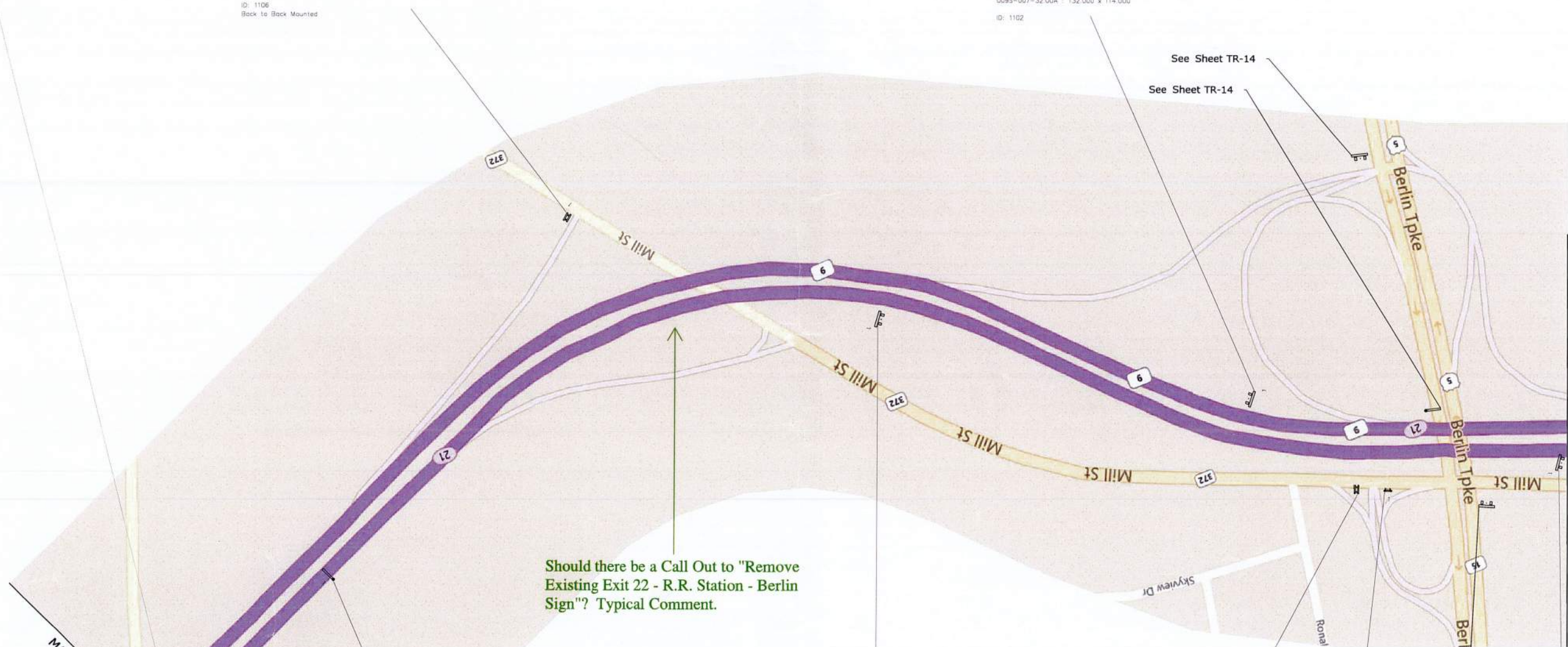


*couldnt find*

41-5905 : 144,000 x 18,000  
52-5907 : 143,999 x 60,001  
ID: 1101  
Replace Panels Only

0095-007-R051-A : 114,000 x 78,000  
0095-007-R051-B : 114,000 x 78,000  
ID: 1106  
Back to Back Mounted

0095-007-32.00A : 132,000 x 114,000  
ID: 1102

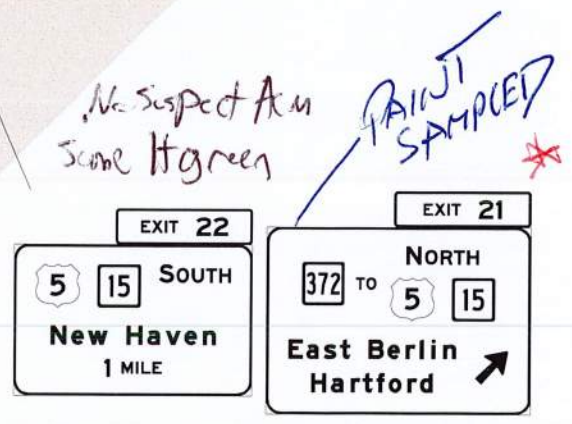


See Sheet TR-14

Should there be a Call Out to "Remove Existing Exit 22 - R.R. Station - Berlin Sign"? Typical Comment.

MATCH MARK - SEE DRAWING NO. TR-10

MATCH MARK - SEE DRAWING NO. TR-12



*No suspect ACM  
Some Hgreen*

*PAINT  
SAMPLED*

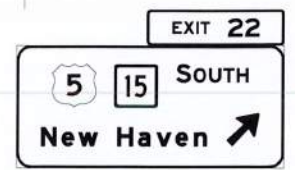


*Galvanized  
No suspect ACM*

*Suspect  
look like this  
see picture*



*Galvanized  
No suspect ACM*



*Some Lt Green*

009N-007-31.35A : 198,000 x 156,000  
009N-007-31.35B : 222,001 x 186,005  
ID: 1104  
SSN: 21033

009N-007-31.75A : 198,000 x 156,004  
ID: 1105

015N-007-R180-A : 120,000 x 78,000  
015N-007-R180-B : 120,000 x 78,000  
ID: 1109  
Back to Back Mounted

015N-007-R174-A : 144,000 x 114,000  
ID: 1108

009N-007-32.19A : 222,000 x 132,004  
ID: 1107

PRELIMINARY DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/19/2018

DESIGNER/DRAFTER: DR  
CHECKED BY: MAC  
SCALE IN FEET  
0 200 400  
SCALE 1"=200'

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

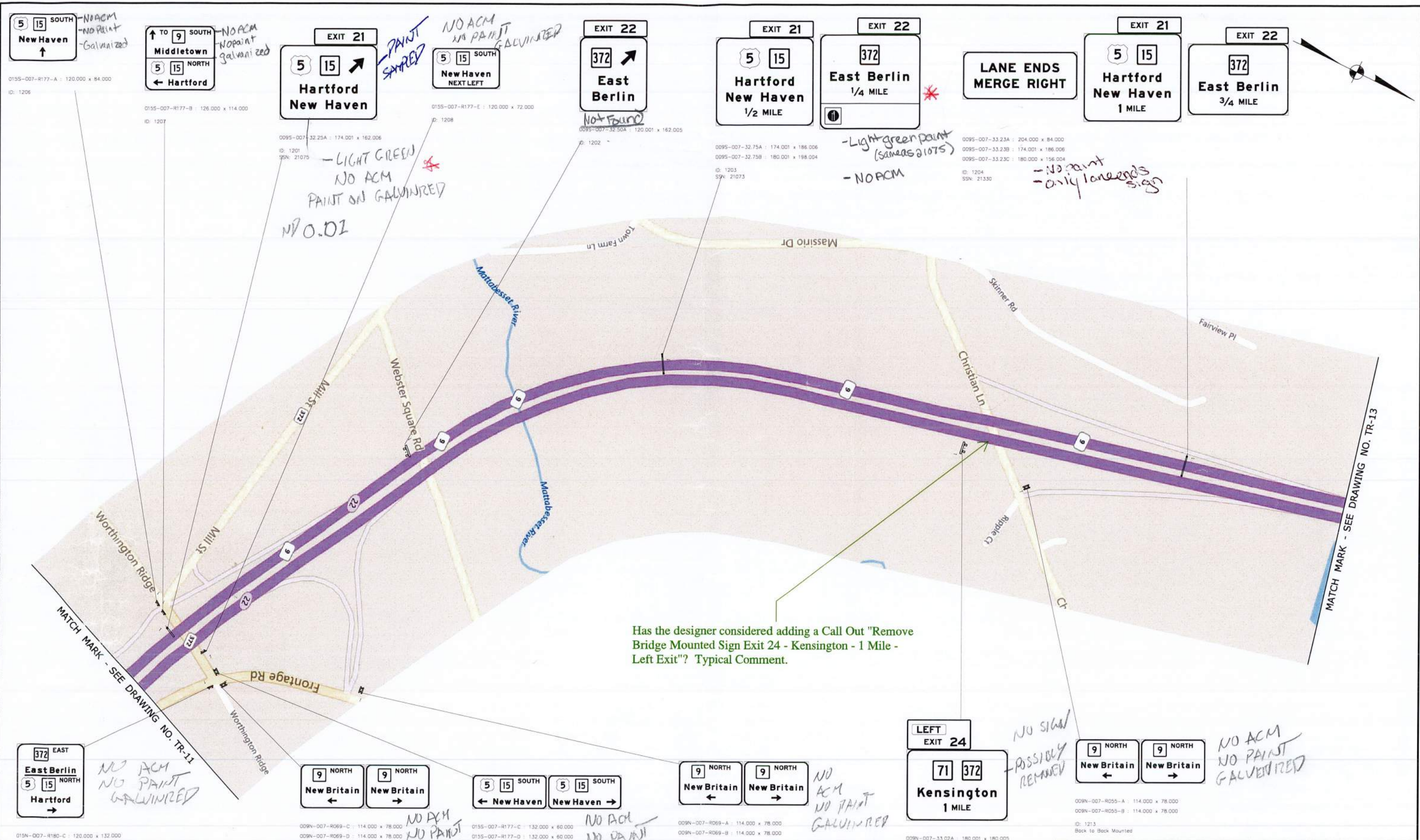
SIGNATURE/BLOCK:  
OFFICE OF ENGINEERING  
APPROVED BY:

PROJECT TITLE:  
REPLACEMENT OF HIGHWAY  
SIGNING ON ROUTE 9  
15, & SR 571 CONNECTOR

TOWN: CROMWELL & BERLIN  
DRAWING TITLE: SIGNING - MAINLINE

PROJECT NO. 0007-0189  
DRAWING NO. TR-11  
SHEET NO.

Filename: ...TR.MSH.SPM...0007-0189.dgn



Has the designer considered adding a Call Out "Remove Bridge Mounted Sign Exit 24 - Kensington - 1 Mile - Left Exit"? Typical Comment.

**PRELIMINARY DESIGN REVIEW**

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		SCALE IN FEET 0 200 400 SCALE 1"=200'		APPROVED BY:		DRAWING TITLE: <b>SIGNING - MAINLINE</b>	DRAWING NO.: <b>TR-12</b>

LANE ENDS  
MERGE RIGHT

Christian Lane  
Berlin

EXIT 23

0095-007-33.37A : 204.000 x 84.000  
0095-007-33.37B : 228.000 x 126.000  
ID: 1301  
SSN: 21334

*-NO paint  
-NO ACM  
-GALVANIZED*

LANE ENDS  
1/2 MILE  
MERGE RIGHT

Christian Lane  
Berlin  
1/2 MILE

EXIT 23

0095-007-33.78A : 204.000 x 108.000  
0095-007-33.78B : 228.000 x 138.000  
ID: 1302  
SSN: 21329

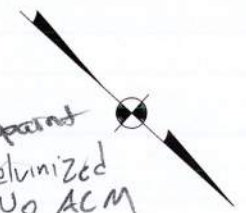
*-NO paint*

Christian Lane  
Berlin  
1 MILE

EXIT 23

0095-007-34.48A : 228.001 x 138.003  
ID: 1303

*-NO paint  
-Galvanized  
-NO ACM*



What about the existing "Rt 9 South Middletown 2 Straight Arrows" sign?

What about the existing "Rt 9 North New Britain W Hartford 2 Straight Arrows" sign?

*Galvanized  
No safe access*

*Lt Green  
No safe access*

MATCH MARK - SEE DRAWING NO. TR-12

SEE DRAWING NO. TR-04

END PROJECT LIMITS

LEFT  
EXIT 24

71 372  
Kensington  
1/2 MILE

*\*  
-Green paint  
-Cantibent*

LEFT  
EXIT 24

71 372  
Kensington

EXIT 25  
Ellis St  
1 MILE

EXIT 26  
Downtown  
New Britain  
1 MILE

EXIT 25  
Ellis St  
1/2 MILE  
H

009N-007-33.44A : 180.001 x 180.005  
ID: 1304

009N-007-33.92A : 180.001 x 156.005  
009N-007-33.92B : 132.000 x 108.000  
ID: 1305  
SSN: 21327

009N-007-34.32A : 186.000 x 138.000  
009N-007-34.32B : 132.000 x 150.003  
ID: 1306  
SSN: 21038

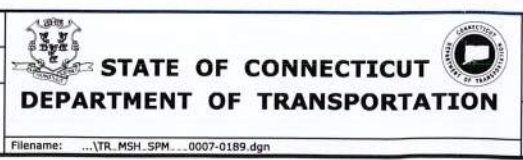
**PRELIMINARY DESIGN REVIEW**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/19/2018

DESIGNER/DRAFTER:  
DR

CHECKED BY:  
MAC

SCALE IN FEET  
0 200 400  
SCALE 1"=200'



SIGNATURE/  
BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:  
**REPLACEMENT OF HIGHWAY  
SIGNING ON ROUTE 9,  
15, & SR 571 CONNECTOR**

TOWN:  
**CROMWELL & BERLIN**

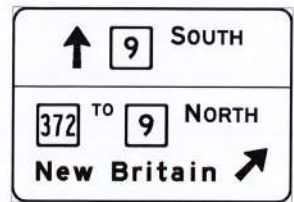
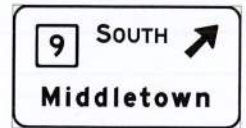
DRAWING TITLE:  
**SIGNING - MAINLINE**

PROJECT NO.  
**0007-0189**

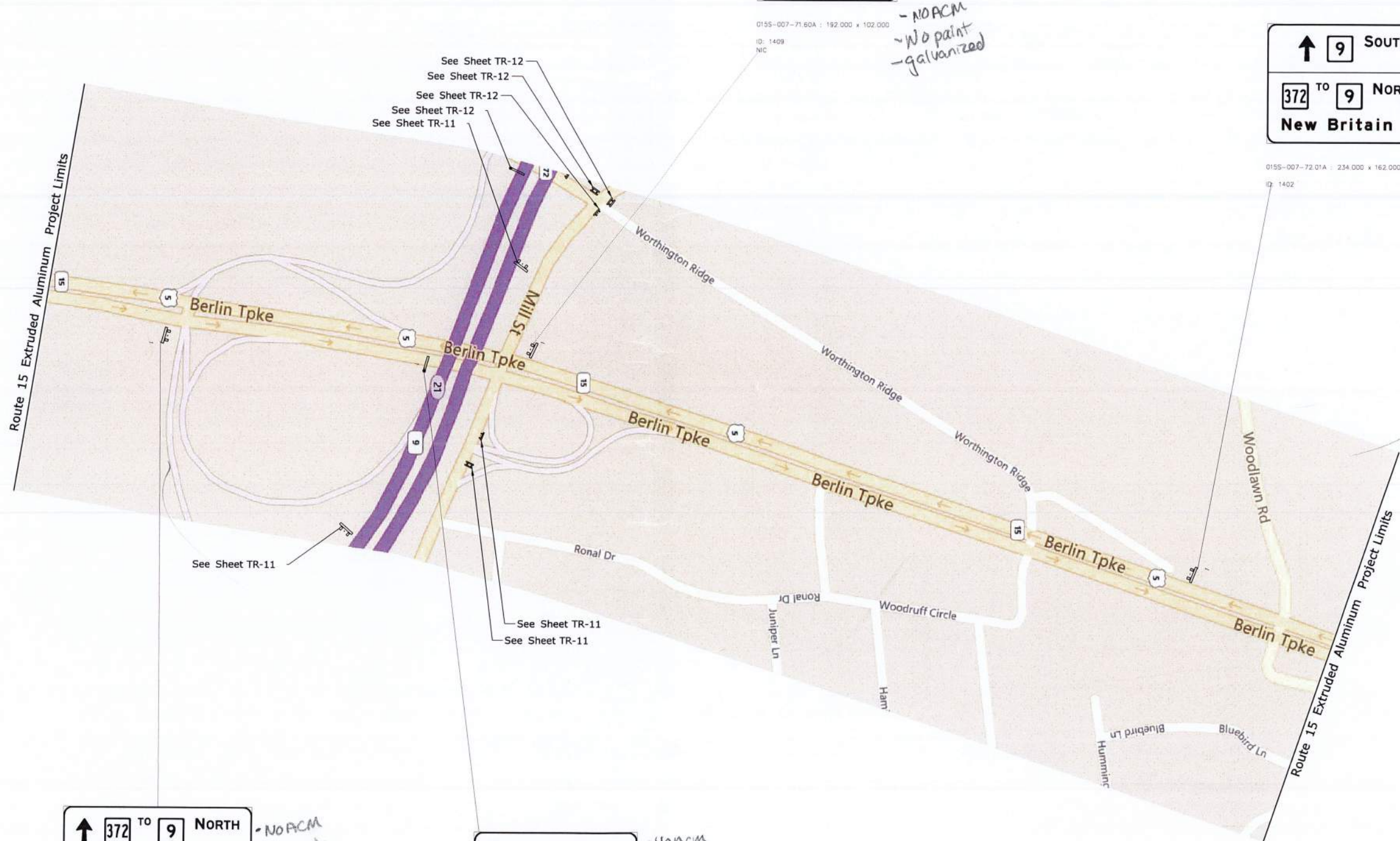
DRAWING NO.  
**TR-13**

SHEET NO.

Will Drawings be included in the next submission extending beyond match to the Project Limits.  
Typical Comment.

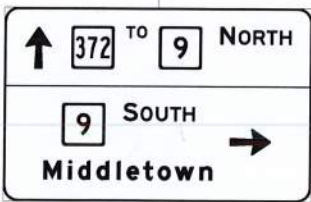


- No paint  
- NO ACM  
- galvanized



0155-007-71.60A : 192,000 x 102,000  
ID: 1409  
NIC  
- NO ACM  
- No paint  
- galvanized

0155-007-72.01A : 234,000 x 162,000  
ID: 1402



- NO ACM  
- No paint  
- galvanized



- NO ACM  
- No paint  
- galvanized

015N-007-71.36A : 258,000 x 162,000  
ID: 1403

015N-007-71.53A : 222,000 x 162,000  
ID: 1404  
SSN: 21024

**PRELIMINARY DESIGN REVIEW**

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/19/2018	Filename: ...TR_MSH_SPM_...0007-0189.dgn		