06 - TRAFFIC
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
TR-01	TRAFFIC DRAWINGS INDEX		
SPM-001 - SPM-004	SIGNING AND PAVEMENT MARKING PLANS INTERCHANGE 5		
SPM-005 - SPM-009	SIGNING AND PAVEMENT MARKING PLANS INTERCHANGE 6		
SPM-010 - SPM-011	OVERHEAD SIGN CROSS SECTION		
SDS-001 - SDS-003	SIGN FACE SHEET ALUMINUM TYPICAL DETAILS		
TCS-001 - TCS-007	TRAFFIC SIGNAL PLAN		
INT-001	SYSTEM INTERCONNECT PLAN		
MA-001 - MA-003	MAST ARM ASSEMBLY DETAILS		

DESIGNED BY:
VN ENGINEERS, INC.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameHW_TR-01_034_0313.dgn 4/7/2014 Border Version1 6/1/05

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: **M. DION**
CHECKED BY: **R. GOMEZ**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

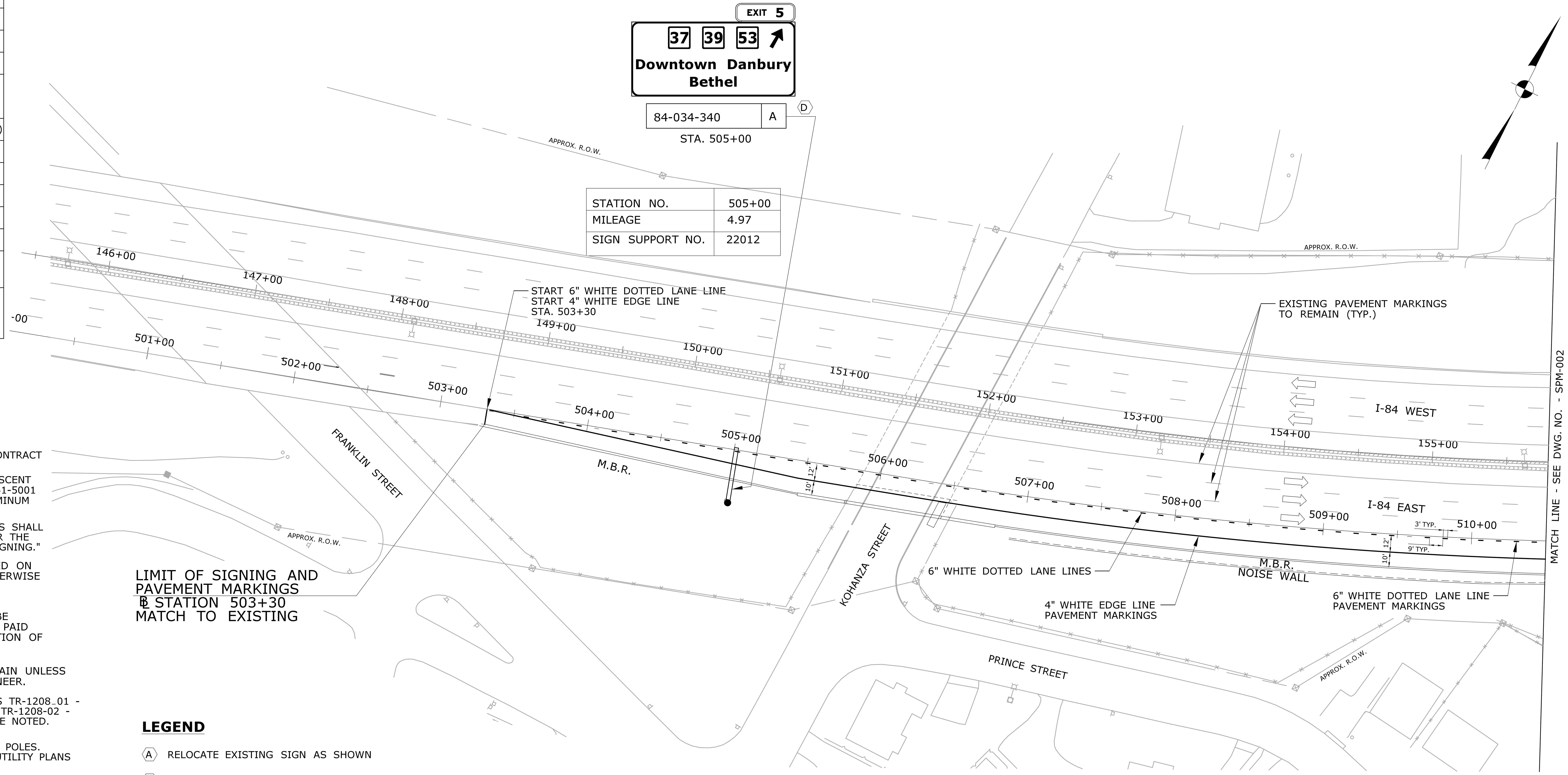
PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **TRAFFIC DRAWINGS INDEX**

PROJECT NO. **34-313**
DRAWING NO. **TR-01**
SHEET NO. **06.01**

SIGNING STANDARD CONVENTIONS		
	OVERHEAD INSTALLATION	
	CANTILEVER INSTALLATION	
	SIDE MOUNTED INSTALLATION	
	SINGLE POST MOUNTING	REGULATORY, WARNING OR GUIDE SIGN INSTALLATION
	DOUBLE POST MOUNTING	
	AS NOTED - (16H,16E CONSTRUCTION INDENTIFICATION SIGNS)	
	SIDE MOUNTED EXTRUDED ALUMINUM SIGN	
	SINGLE POST MOUNTING SHEET ALUMINUM BACK TO BACK	
	DOUBLE POST MOUNTING SHEET ALUMINUM BACK TO BACK	
	SIDE MOUNTED EXTRUDED ALUMINUM SIGN BACK TO BACK	
	DIRECTION OF TRAVEL	
00-000-00 | 0	LOCATION NO. EXTRUDED ALUMINUM SIGNS	
00 / 00-0	LOCATION NO. / SIGN NO.	



SIGNING NOTES:

ALL SIGNS SHALL BE NEW UNLESS OTHERWISE NOTED.

ALL EXISTING SIGNS LOCATED WITHIN THE SIGNING LIMITS SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED (EXCLUDING OVERHEAD AND BRIDGE MOUNTED SIGNS) . THIS WORK SHALL BE PAID UNDER THE CONTRACT ITEM NO. 1206023A "REMOVAL AND RELOCATION OF EXISTING SIGNS"

ALL CHEVRON SIGNS (SIGN NO. 41-4203) TO HAVE A YELLOW FLOURESCENT STRIP (SIGN NO. 41-5001) INSTALLED ON THE SIGN POST. SIGN NO. 41-5001 IS TO BE PAID FOR UNDER ITEM NO. 1208928-SIGN FACE-SHEET ALUMINUM (TYPE III REFLECTIVE SHEETING.

ALL EXISTING OVERHEAD SIGNS LOCATED WITHIN THE SIGNING LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED. WORK SHALL BE PAID UNDER THE CONTRACT ITEM NO. 1206025A - "REMOVAL OF EXISTING OVERHEAD SIGNING."

ALL EXISTING SIGNS NOTED TO BE RELOCATED SHALL BE INSTALLED ON NEW BREAKAWAY SUPPORTS AND NEW FOUNDATIONS, UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID UNDER THE CONTRACT ITEM NO.1206023A "REMOVAL AND RELOCATION OF EXISTING SIGNS".

ALL TOWN OWNED SIGNS INCLUDING STREET NAME SIGNS SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID UNDER THE CONTRACT ITEM NO. 1206023A "REMOVAL AND RELOCATION OF EXISTING SIGNS"

ALL EXISTING SIGNS OUTSIDE THE LIMIT OF SIGNING ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SHEETS TR-1208_01 - SIGN SUPPORT AND SIGN PLACEMENT DETAILS, GORE EXIT SIGN AND TR-1208-02 - METAL SIGN POSTS AND SIGN MOUNTING DETAILS UNLESS OTHERWISE NOTED.

SIGNS SHALL BE INSTALLED NO CLOSER THAN 10 FEET FROM UTILITY POLES. UTILITY POLE LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. SEE UTILITY PLANS FOR EXACT LOCATIONS.

FINAL SIGN LOCATIONS SHALL BE VERIFIED BY ENGINEER.

THE RELATIVE LOCATION OF EACH SIGN ON OVERHEAD STRUCTURES IS SHOWN READING ALPHABETICALLY FROM LEFT TO RIGHT, AS VIEWED BY TRAFFIC.

THE CONTRACTOR SHALL CLEAR AND TRIM AS DIRECTED BY THE ENGINEER TO PROVIDE ADEQUATE SIGHT DISTANCE TO ALL SHEET ALUMINUM SIGNS AND ALL EXTRUDED ALUMINUM SIGHNS. THIS WORK SHALL BE PAID FOR UNDER ITEM NO. 0952001A - "SELECTIVE CLEARING AND THINNING."

ALL OBJECT MARKERS WITHIN PROJECT LIMITS ARE TO BE REPLACED. THIS WORK WILL BE PAID FOR UNDER ITEM NO. 0930001 - "OBJECT MARKER."

THE CONTRACTOR SHALL INSTALL TYPE DE-1 AND DE-2 DELINEATORS IN ACCORDANCE WITH STANDARD SHEET TR-1205-01 "DELINEATION, DELINEATOR AND OBJECT MARKER DETAILS."

SIGNS NOT IN CONTRACT (N.I.C.) SHALL BE REMOVED AND RELOCATED BY OWNER(S)

"ONE WAY" SIGNS TO BE MOUNTED 1' ABOVE ADJACENT "DO NOT ENTER SIGNS". IF NEARBY GUIDE SIGNS WILL BLOCK VISIBILITY TO THE "ONE WAY" SIGNS, THE HEIGHT OF THE "ONE WAY" SIGNS SHALL BE INCREASED ACCORDINGLY.

STATE AND TOWN OWNED GUIDE SINGS IN THE VICINITY OF THE OFF RAMP SHOULD NOT BE LOCATED IN A MANNER THAT COULD CAUSE THE MOTORIST TO ENTER THE OFF RAMP.

"DO NOT ENTER" AND "WRONG WAY" SIGNS ARE TO HAVE A REFLECTIVE RED STRIP (SIGN NO. 31-5003) INSTALLED ON THE SIGN POST.

SIGNS "DO NOT ENTER" (31-1121) AND "WRONG WAY" (31-1123) TO BE MOUNTED 5' OFF OF THE GROUND MEASURED FROM THE BOTTOM OF THE SIGN.

"DO NOT ENTER: (31-1121) AND "STOP" SIGNS TO BE INSTALLED A MINIMUM OF 2' FROM EACH OTHER WHEN FEASIBLE.

▲ SPAN MOUNTED SIGN. PLEASE SEE TRAFFIC SIGNAL PLANS FOR EXACT LOCATION.

LEGEND

- (A) RELOCATE EXISTING SIGN AS SHOWN
- (B) MODIFY EXISTING SIGN AS SHOWN
- (C) NEW SIDE MOUNT SIGN
- (D) EXISTING SIDE MOUNTED SIGN RELOCATED ONTO NEW OVERHEAD SUPPORT AND FOUNDATION. EXISTING SIDE MOUNTED SUPPORTS AND FOUNDATION TO BE REMOVED.
- (E) NEW OVERHEAD SIGN ON EXISTING SUPPORT AND FOUNDATION
- (F) REMOVE EXISTING OVERHEAD SIGN(S), SIGN SUPPORT AND FOUNDATION(S).
- (J) REMOVE SIGN AND POSTS FROM EXISTING LOCATION. INSTALL EXISTING SIGN ONTO NEW POSTS AT LOCATION SHOWN.
- (X) RELOCATE EXISTING SIGN(S) ONTO NEW POST AT A LOCATION APPROVED BY ENGINEER
- (S) INSTALL SCHOOL/ELDERLY AND HANDICAPPED BAR TYPE CROSSWALK (MAINTAINED BY STATE).
- (T) INSTALL SCHOOL/ELDERLY AND HANDICAPPED BAR TYPE CROSSWALK (MAINTAINED BY TOWN).
- ⇨ TRAVEL LANE AND DIRECTION OF TRAVEL

PAVEMENT MARKING NOTES:

STATE TO MAINTAIN ALL PAVEMENT MARKINGS AND SIGNING ON ROUTE 37, ROUTE I-84 MAINLINE AND ON/OFF RAMPS, AND STOP BARS AND STOP SIGNS ON SECOND AVENUE, WALNUT STREET, PADANARAM AVENUE, AND HAYESTOWN AVENUE, SR 841 (DOWNS ST.)
AND STOP BAR ON FAIRVIEW AVENUE.
CITY OF DANBURY TO MAINTAIN ALL OTHER PAVEMENT MARKINGS AND SIGNING ON CITY ROADS. DEVELOPERS TO MAINTAIN ALL PAVEMENT MARKINGS AND SIGNING ON PRIVATE DRIVES.

ALL FINAL PAVEMENT MARKINGS ARE TO BE EPOXY RESIN.

ALL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SHEET TR-1210_03 "SPECIAL DETAILS AND TYPICAL PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS" UNLESS OTHERWISE NOTED.

ALL PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SHEETS TR-1210-01 AND TR-1210-02 "PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS" UNLESS OTHERWISE STATE).

PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT THE PROJECT TO THE LIMIT OF PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER. ALL CONFLICTING PAVEMENT MARKINGS WITHIN THE LIMIT OF CONSTRUCTION ARE TO BE REMOVED. THE REMOVAL OF PAVEMENT MARKINGS IS PAYABLE UNDER ITEM NO. 1211001 "REMOVAL OF PAVEMENT MARKINGS".

PAVEMENT MARKINGS DISTURBED WILL BE REINSTALLED USING CONSTRUCTION STAKING.

INSTALL SCHOOL/ELDERLY AND HANDICAPPED BAR TYPE CROSSWALK. SEE STANDARD SHEET TR-1210_03 - "SPECIAL DETAILS AND TYPICAL PAVEMENT MARKING FOR TWO-WAY HIGHWAYS".

ALL OFF RAMP STOP BARS TO BE 24" WIDE.

LANE USE ARROWS FOR OFF RAMPS ARE TO BE INSTALLED 10' FROM STOP BAR AS SHOWN. ADDITIONAL LANE USE ARROWS TO BE INSTALLED AS NEEDED PER DOT PAVEMENT MARKING STANDARDS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename: TR_MSH_SPM-001_034_0308.dgn 3/25/2014 Border Version: 6/1/05

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DESIGNER/DRAFTER: M. BAUER
CHECKED BY: M. DION
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

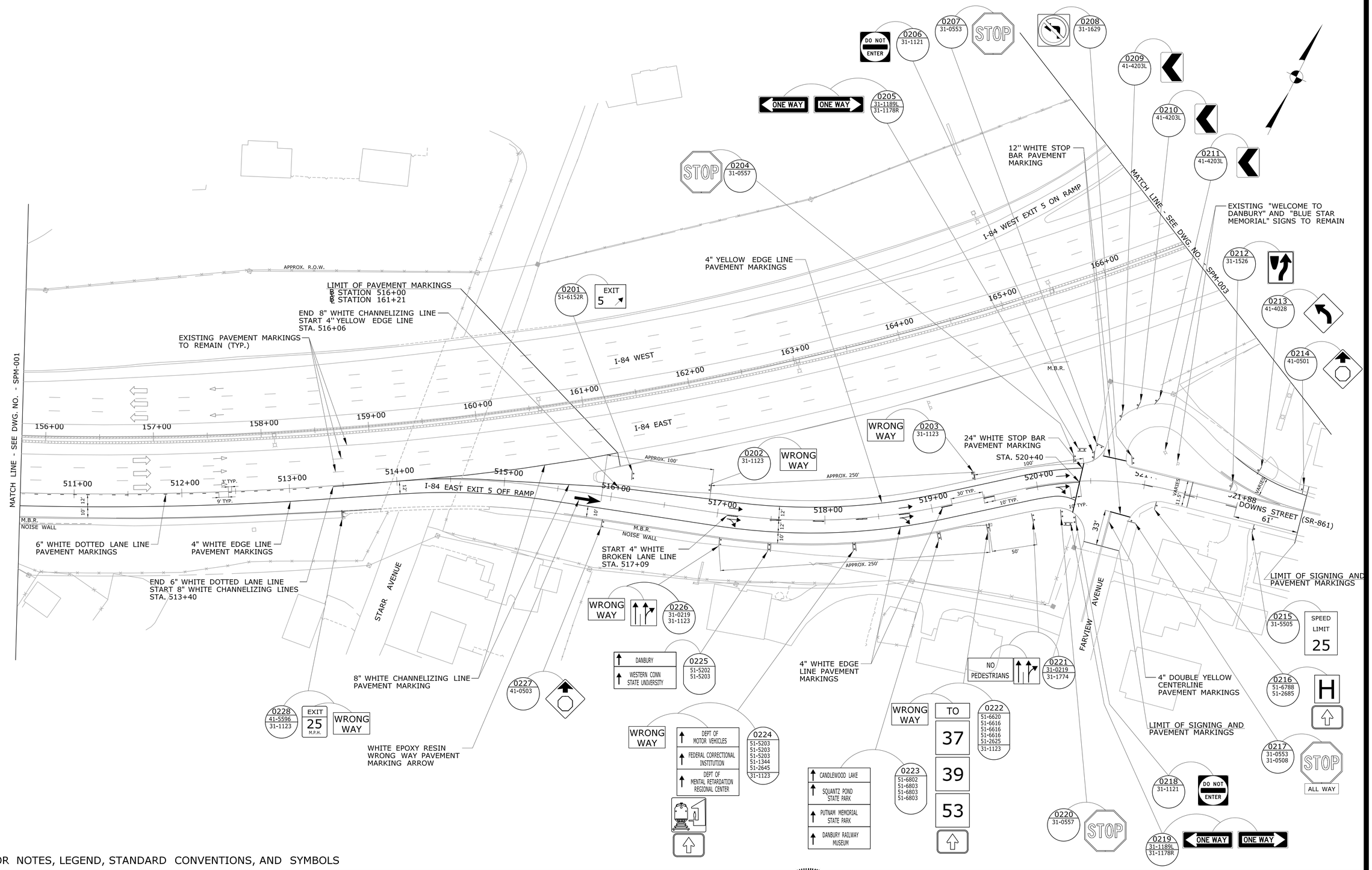
ENGINEER: AECOM USA, Inc. / VN ENGINEERS, Inc.
APPROVED BY: SOFIA NIRSHBERG, P.E. DATE: 02/28/2014

PROJECT TITLE: I-84 INTERCHANGES 5 & 6 IMPROVEMENTS

TOWN: DANBURY

DRAWING TITLE: SIGNING AND PAVEMENT MARKING PLAN - I (INT 5)

PROJECT NO. 34-313
DRAWING NO. SPM-001
SHEET NO. 06.02



SEE SPM-001 FOR NOTES, LEGEND, STANDARD CONVENTIONS, AND SYMBOLS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameTR_MSH_SPM-002_034_0308.dgn 3/25/2014 Border Version: 6/1/05

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: **M. BAUER**
CHECKED BY: **M. DION**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA, Inc. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, P.E.** DATE: **02/28/2014**

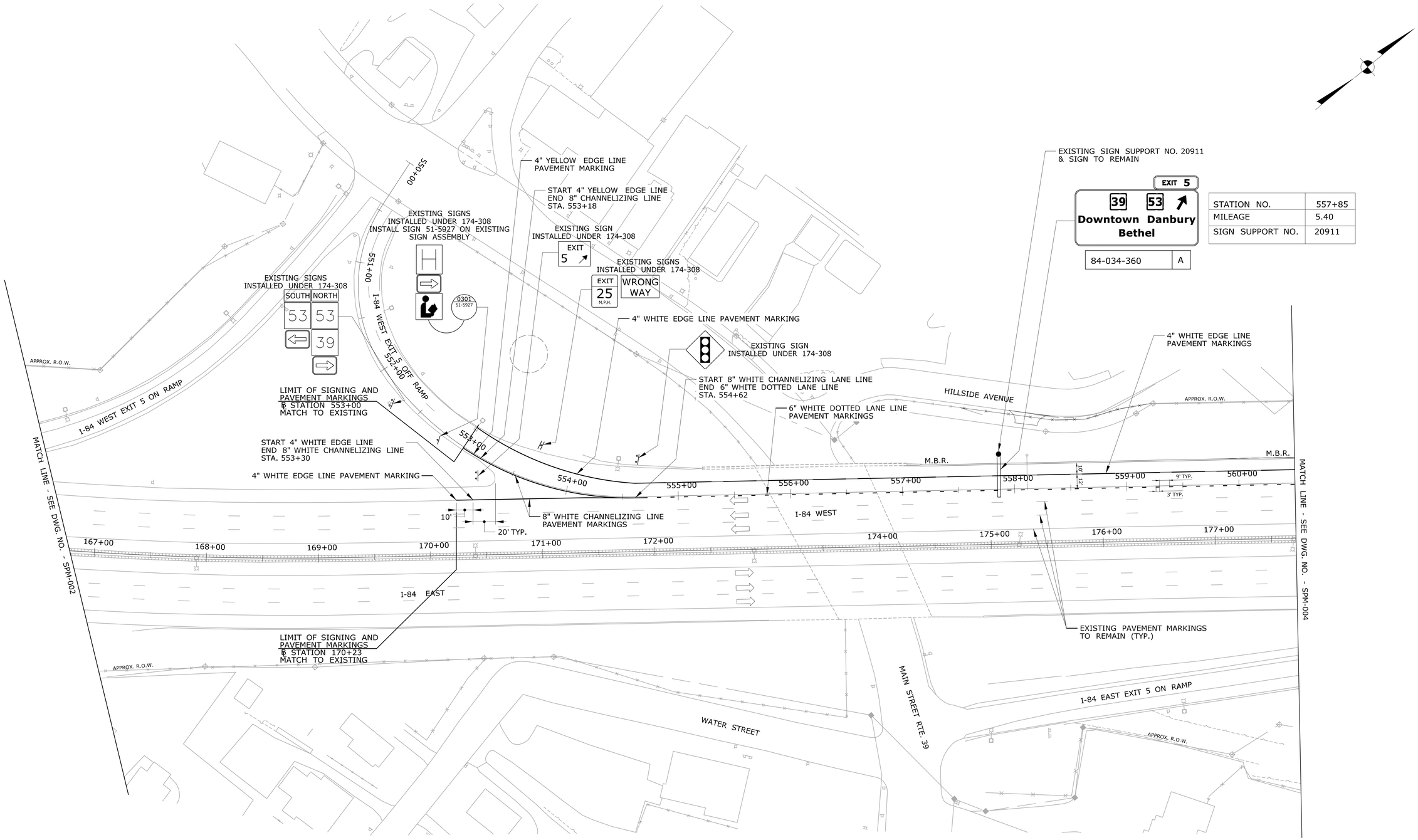
STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE:
I-84 INTERCHANGES 5 & 6 IMPROVEMENTS

TOWN: **DANBURY**

DRAWING TITLE:
SIGNING AND PAVEMENT MARKING PLAN - II (INT 5)

PROJECT NO. **34-313**
DRAWING NO. **SPM-002**
SHEET NO. **06.03**



SEE SPM-001 FOR NOTES, LEGEND, STANDARD CONVENTIONS, AND SYMBOLS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameTR_MSH_SPM-003_034_0308.dgn 3/25/2014 Border Version: 6/1/05

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: **M. BAUER**
CHECKED BY: **M. DION**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA, Inc. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, P.E.** DATE: **02/28/2014**

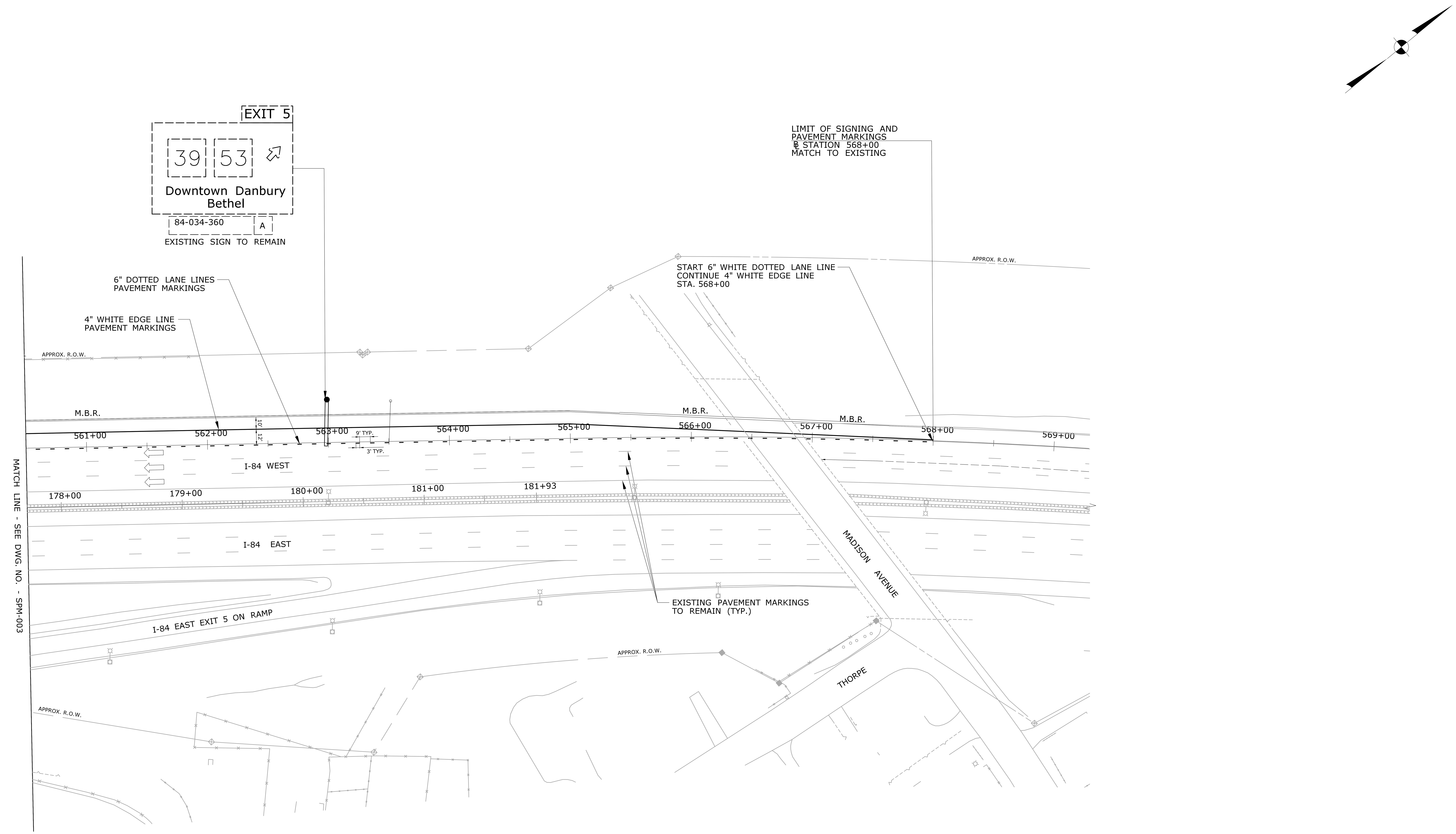
STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN - III (INT 5)**

PROJECT NO. **34-313**
DRAWING NO. **SPM-003**
SHEET NO. **06.04**



SEE SPM-001 FOR NOTES, LEGEND, STANDARD CONVENTIONS, AND SYMBOLS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename: TR_MSH_SPM-004_034_0308.dgn 3/25/2014 Border Version: 6/1/05

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: **M. BAUER**

CHECKED BY: **M. DION**

SCALE IN FEET 0 40 80 SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA, Inc. / VN ENGINEERS, Inc.**

APPROVED BY: **SOFIA NIRSHBERG, P.E.** DATE: **02/28/2014**

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

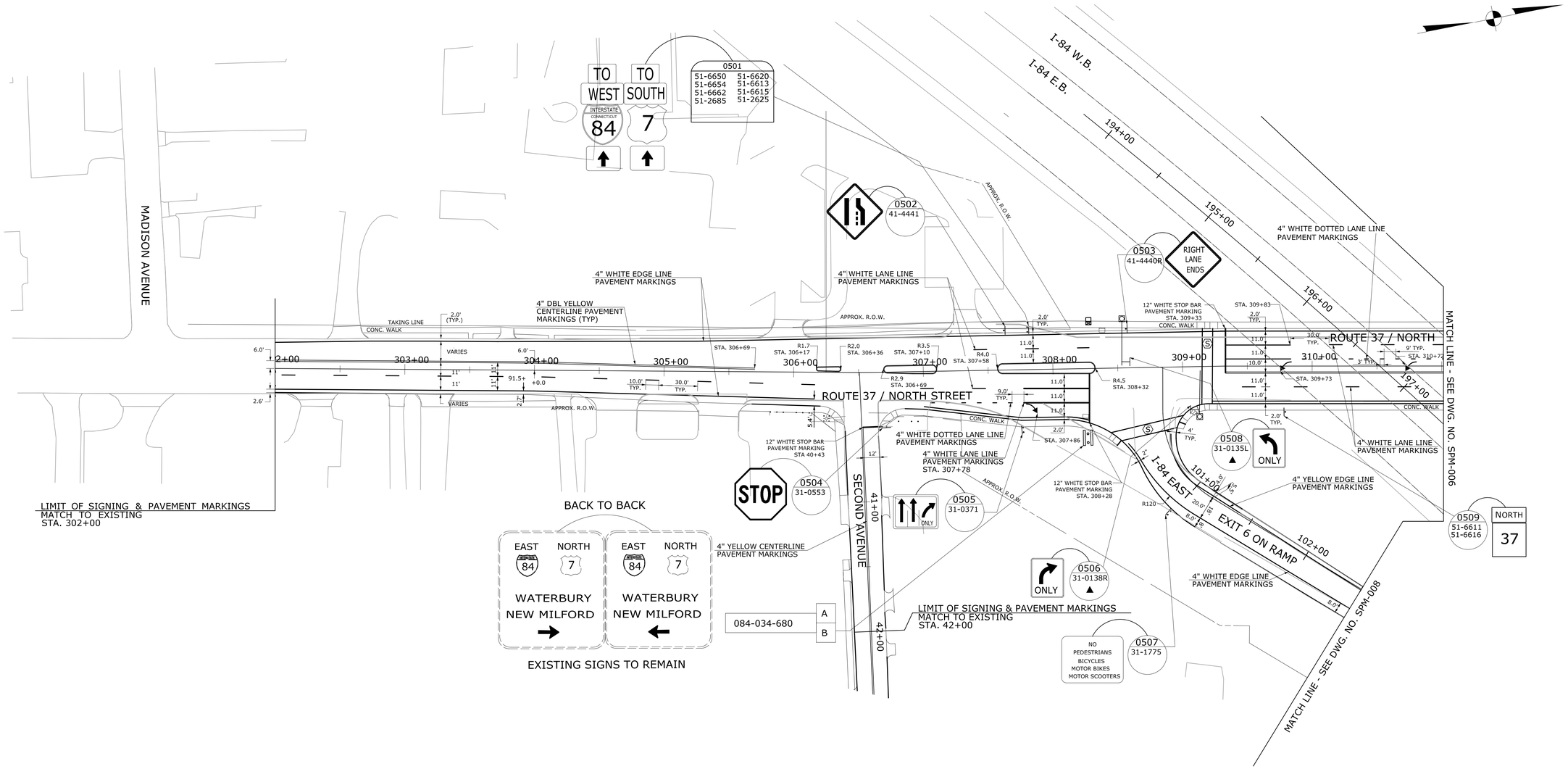
TOWN: **DANBURY**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN - IV (INT 5)**

PROJECT NO. **34-313**

DRAWING NO. **SPM-004**

SHEET NO. **06.05**



NOTES:

SEE SPM-001 FOR NOTES, LEGEND, STANDARD CONVENTIONS AND SYMBOLS.

SEE STRUCTURAL PLANS FOR DESIGN AND INSTALLATION OF STRUCTURE MOUNTED SIGNS.

INSTALL TYPE DE-9 DELINEATOR ON EACH POST OF SIGN NO. 41-4214.

SEE SMSS-001 AND SMSS-002 FOR STRUCTURAL DETAILS OF BRIDGE MOUNTED SIGNS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameTR_034_0313_001_PVT.dgn 3/25/2014 Border Version: 6/7/06

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: **M. DION**

CHECKED BY: **R. GOMEZ**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**

APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16178 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE:

I-84 INTERCHANGES 5 & 6 IMPROVEMENTS

TOWN: **DANBURY**

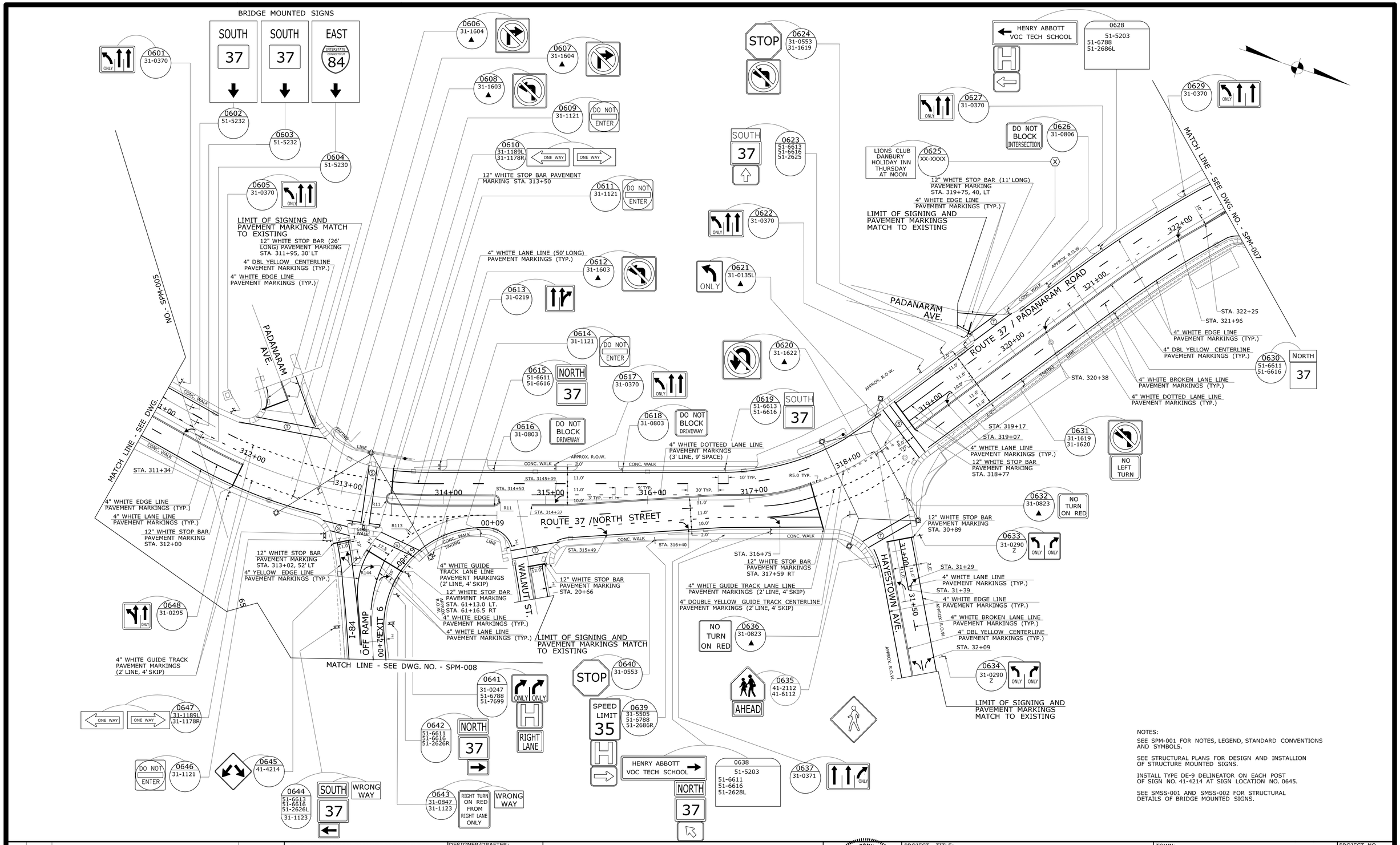
DRAWING TITLE:

SIGNING AND PAVEMENT MARKING PLAN - V (INT 6)

PROJECT NO. **34-313**

DRAWING NO. **SPM-005**

SHEET NO. **06.06**



NOTES:

SEE SPM-001 FOR NOTES, LEGEND, STANDARD CONVENTIONS AND SYMBOLS.

SEE STRUCTURAL PLANS FOR DESIGN AND INSTALLION OF STRUCTURE MOUNTED SIGNS.

INSTALL TYPE DE-9 DELINEATOR ON EACH POST OF SIGN NO. 41-4214 AT SIGN LOCATION NO. 0645.

SEE SMSS-001 AND SMSS-002 FOR STRUCTURAL DETAILS OF BRIDGE MOUNTED SIGNS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER: **M. DION**
CHECKED BY: **R. GOMEZ**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

STATE OF CONNECTICUT SOFIA N. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

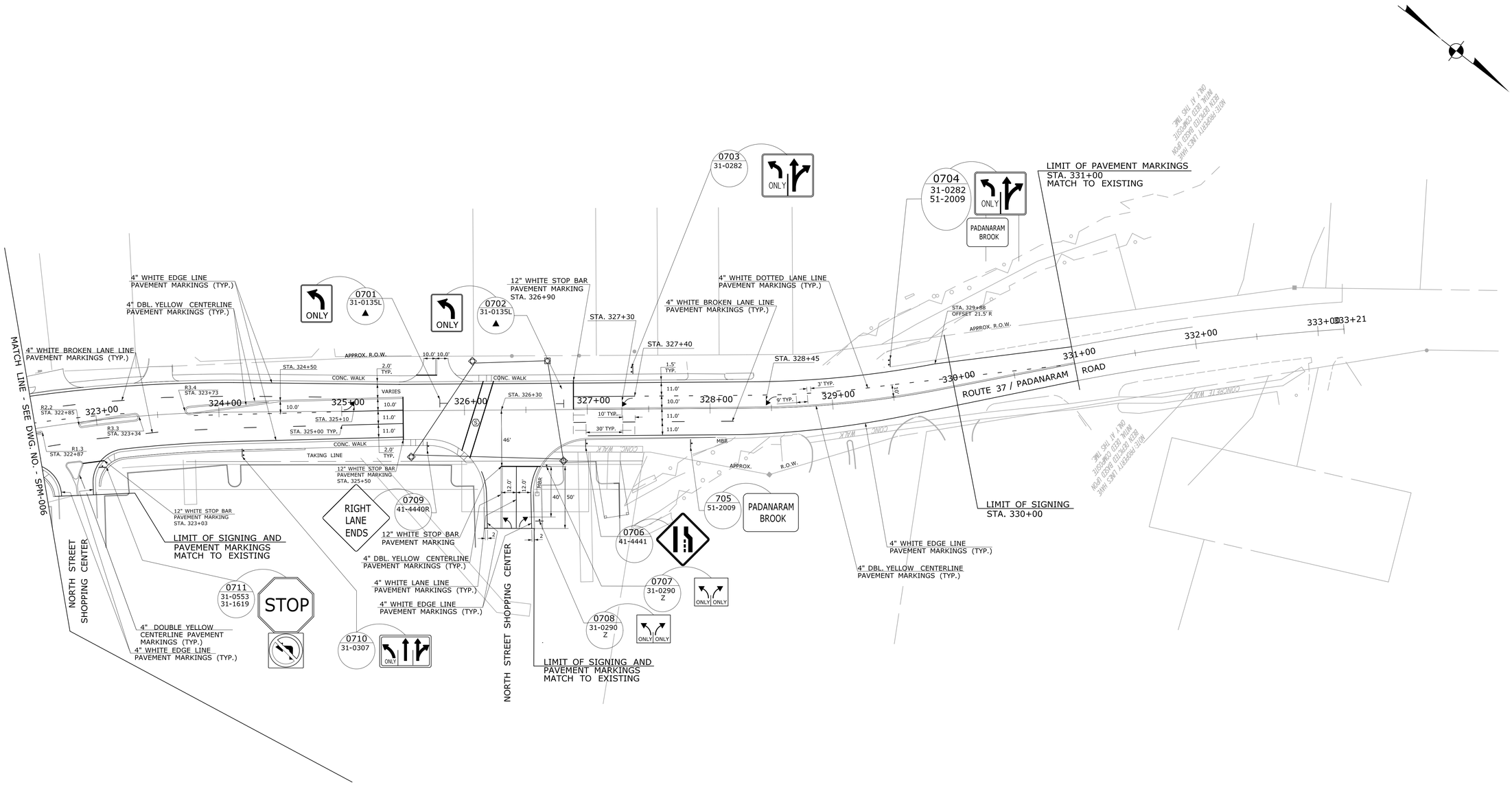
PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN - VI (INT 6)**

PROJECT NO. **34-313**
DRAWING NO. **SPM-006**
SHEET NO. **06.07**

FilenameTR_034_0313_002_PVT.dgn 3/25/2014 Border Version: 6/17/05



NOTES:

SEE SPM-001 FOR NOTES, LEGEND, STANDARD CONVENTIONS AND SYMBOLS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameTR_034_0313_003_PVT.dgn 3/25/2014 Border Version1 6/17/09

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: **M. DION**

CHECKED BY: **R. GOMEZ**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**

APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

STATE OF CONNECTICUT SOFIA N. NIRSHBERG 24 HOURS LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE:
I-84 INTERCHANGES 5 & 6 IMPROVEMENTS

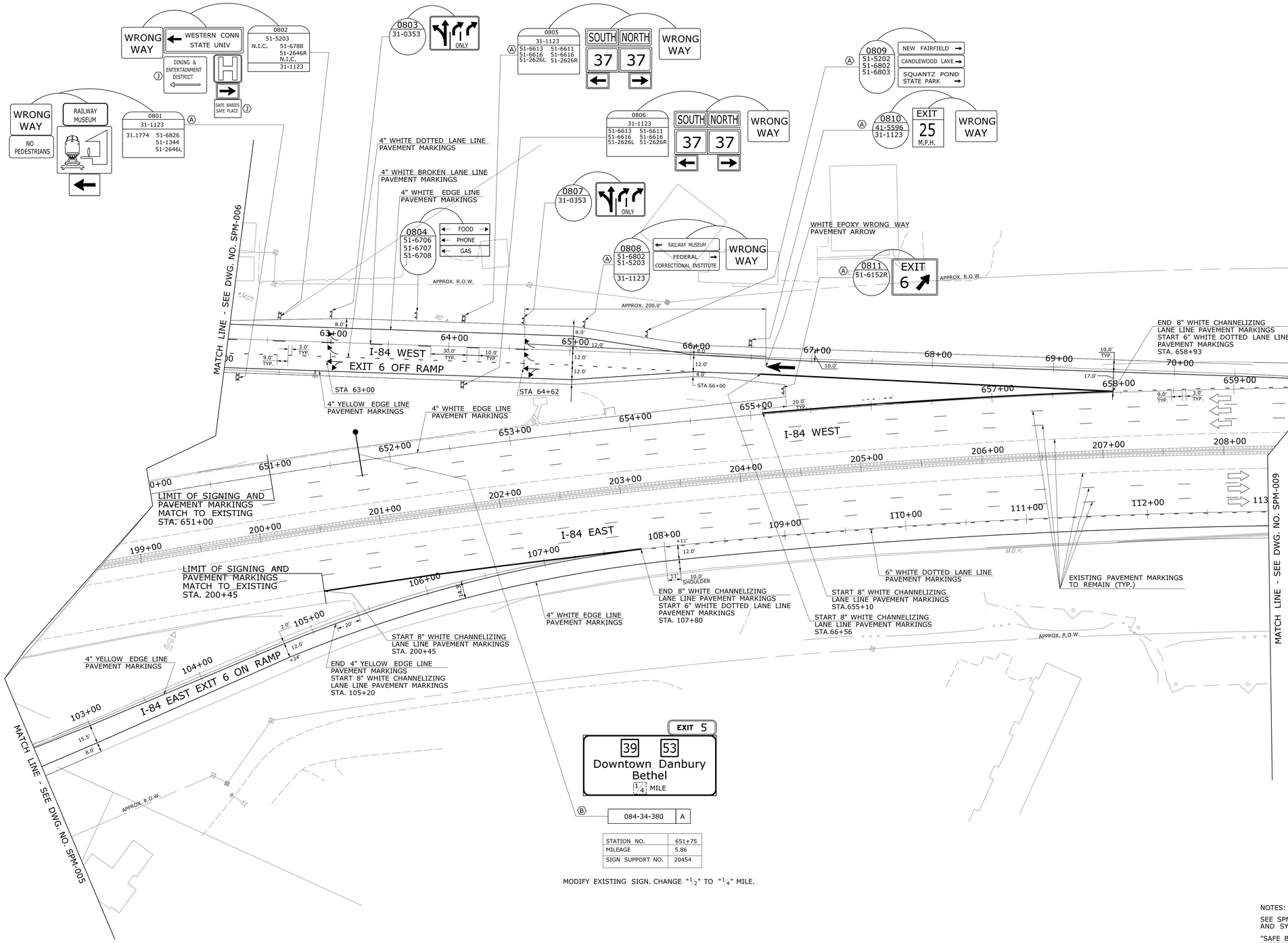
TOWN: **DANBURY**

DRAWING TITLE:
SIGNING AND PAVEMENT MARKING PLAN - VII (INT 6)

PROJECT NO. **34-313**

DRAWING NO. **SPM-007**

SHEET NO. **06.08**



STATION NO.	651+75
MILEAGE	5.86
SIGN SUPPORT NO.	20454

MODIFY EXISTING SIGN. CHANGE "½" TO "¼" MILE.

NOTES:

SEE SPM-001 FOR NOTES, LEGEND, STANDARD CONVENTIONS AND SYMBOLS.

"SAFE BABIES SAFE PLACE" SIGN AND "DINING & ENTERTAINMENT DISTRICT" SIGN ARE EXISTING SIGNS TO BE REUSED IN THE PROJECT. CONTRACTOR TO STORE SIGNS AS NECESSARY.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameTR_034_0313_004_PVT.dgn 3/25/2014 Border Version: 6/7/08

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DESIGNER/DRAFTER: **M. DION**
CHECKED BY: **R. GOMEZ**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN - VIII (INT 6)**

PROJECT NO. **34-313**
DRAWING NO. **SPM-008**
SHEET NO. **06.09**

EXIT 5

39 53
Downtown Danbury
Bethel
1/2 MILE

084-34-390	B

EXIT 6

37 ↗
New
Fairfield

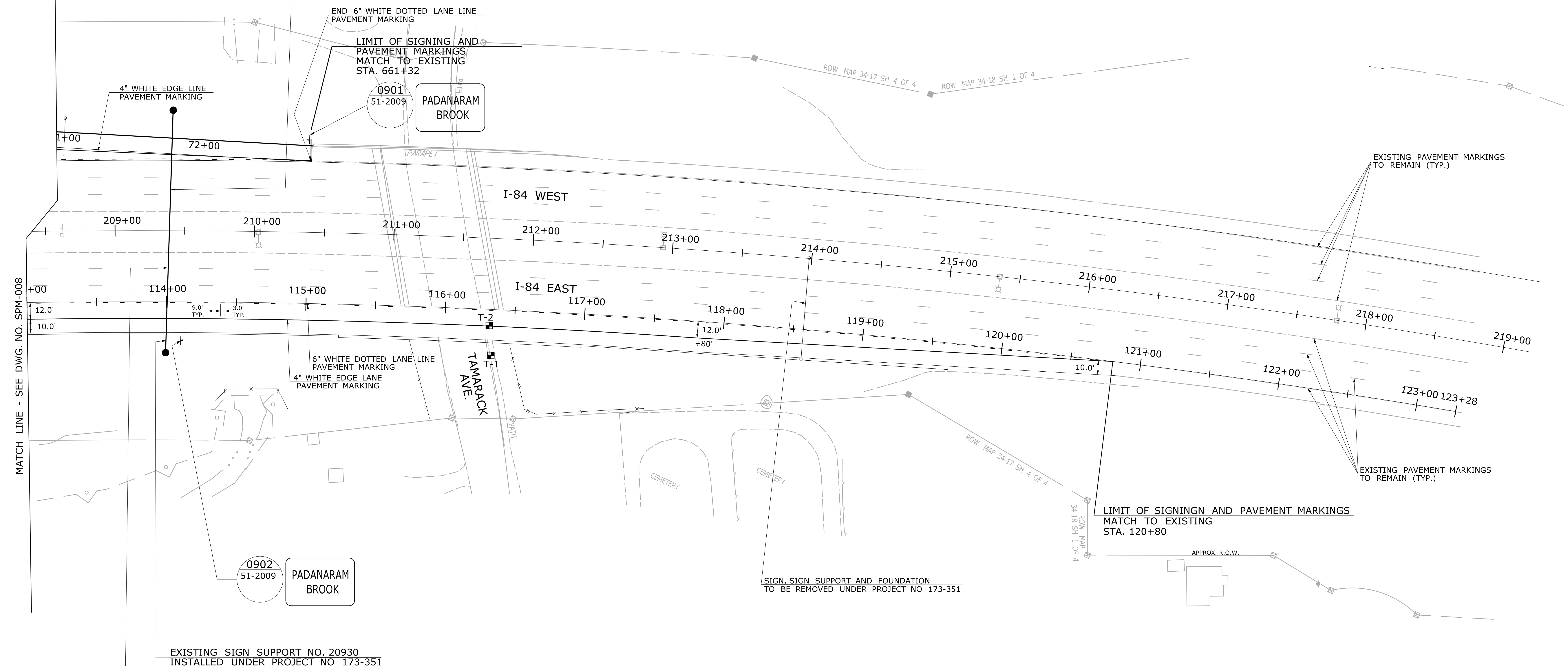
084-34-380	C

INSTALL NEW SIGN ON EXISTING SUPPORT AS SHOWN ON DGN. NO. SPM-012

STATION NO.	209+40
MILEAGE	6.04
SIGN SUPPORT NO.	20930

EXISTING SIGN TO REMIAN ON EXISTING SUPPORT

STATION NO.	209+40
MILEAGE	6.04
SIGN SUPPORT NO.	20930



LEFT EXIT 7

7 NORTH 202 EAST
Brookfield
New Milford
EXIT ONLY

84 EAST
Waterbury

084-34-390	A

EXISTING SIGN TO REMIAN ON EXISTING SUPPORT

STATION NO.	209+40
MILEAGE	6.04
SIGN SUPPORT NO.	20930

NOTES:

SEE SPM-001 FOR NOTES, LEGEND, STANDARD CONVENTIONS AND SYMBOLS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename: TR_034_0313_005_PVT.dgn 3/25/2014 Border Version: 6/1/05

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: M. DION
CHECKED BY: R. GOMEZ
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: AECOM USA INC. / VN ENGINEERS, Inc.
APPROVED BY: SOFIA NIRSHBERG, PE DATE: 03/28/2014

STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **SIGNING AND PAVEMENT MARKING PLAN - IX (INT 6)**

PROJECT NO. **34-313**
DRAWING NO. **SPM-009**
SHEET NO. **06.10**

ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ALL INFORMATION ON THIS SHEET PRIOR TO ORDERING SIGN SUPPORT STRUCTURES

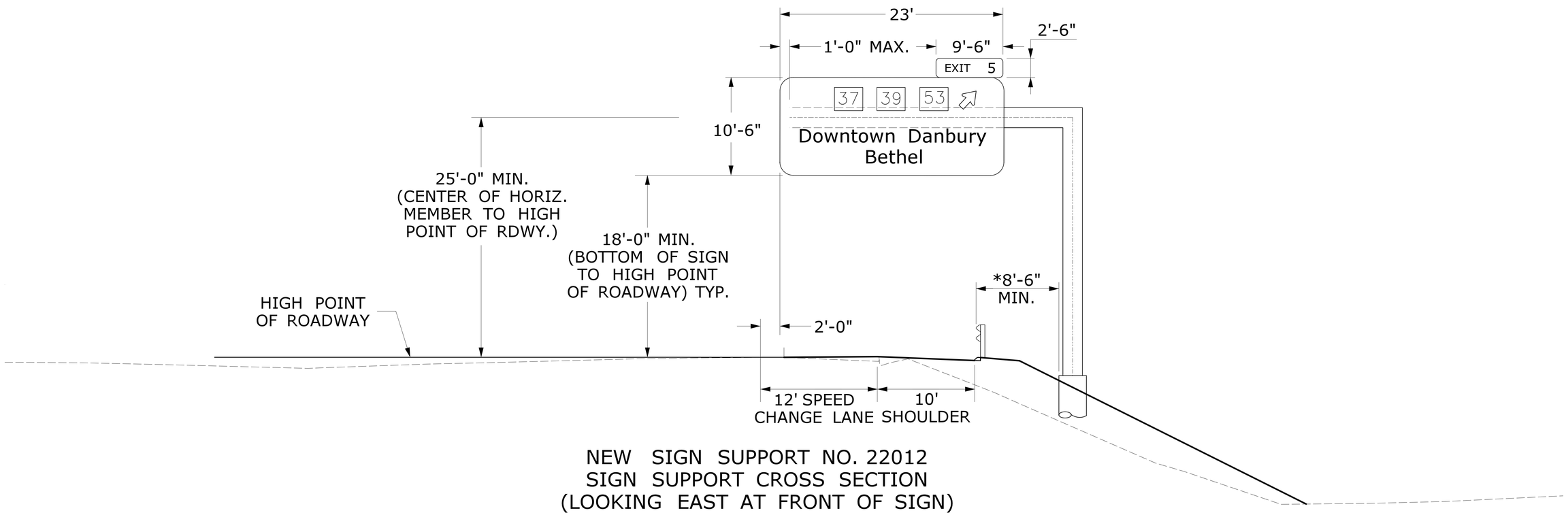
SEE STRUCTURE SHEETS OCS-1 TO OCS-2 FOR SIGN SUPPORT AND FOUNDATION DETAILS.

BOTTOM OF SIGN TO BE A MIN. OF 18'-0" FROM HIGH POINT OF ROADWAY.

RIGHT EDGE OF EXIT CROWN (FACING ONCOMING TRAFFIC) TO BE ALIGNED WITH RIGHT EDGE OF SIGN AS SHOWN ON THE SIGN DETAIL IN THE SPECIAL PROVISION FOR ITEM NO. 1207034A- SIGN FACE-EXTRUDED ALUMINUM (TYPE IV REFLECTIVE SHEETING).

THE EXISTING SIDE MOUNTED SIGN IS TO BE REMOVED AND RELOCATED TO THE NEW SUPPORT AS SHOWN.

* IF THE HEIGHT OF FOUNDATION IS TO BE GREATER THAN 6" ABOVE THE GROUND LINE, THEN THE 8'-6" MINIMUM DIMENSION IS TO BE MEASURED FROM THE FRONT FACE OF BEAM RAIL TO THE NEAR FACE OF THE FOUNDATION. OTHERWISE IT IS TO MEASURED TO THE NEAR FACE OF THE VERTICAL SUPPORT.



NEW SIGN SUPPORT NO. 22012
SIGN SUPPORT CROSS SECTION
(LOOKING EAST AT FRONT OF SIGN)
SIGN NO. 084-34-340
I-84 E.B. STA. 505+00
PROJECT 34-313

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename: TR_MSH_XSC_34-308_1.dgn 3/25/2014 Border Version: 6/1/05

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: **M. BAUER**
CHECKED BY: **M. DION**
SCALE IN FEET 0 10 20
SCALE 1" = 20'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA, Inc. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16178 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

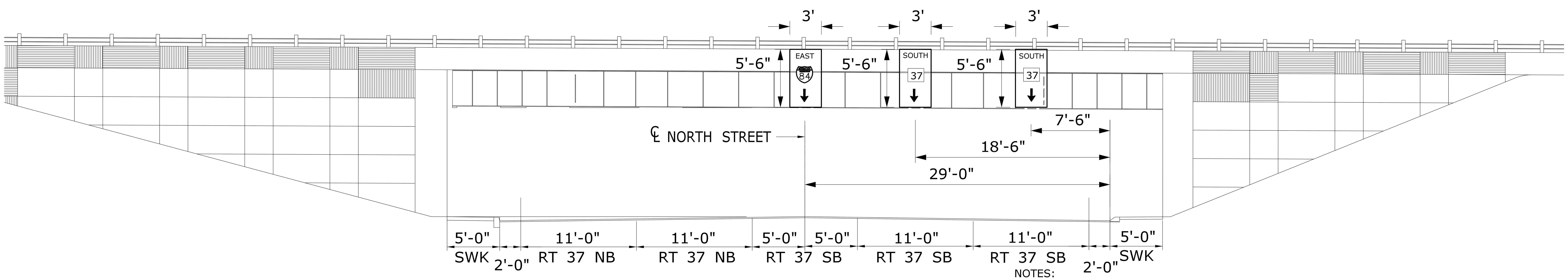
TOWN: **DANBURY**

DRAWING TITLE: **OVERHEAD SIGN CROSS SECTION - 1 (INT 5)**

PROJECT NO. **34-313**
DRAWING NO. **SPM-010**
SHEET NO. **06.11**

OVERHEAD SIGN SUPPORT CROSS SECTIONS

SUPPORT NO. 20930
OVERHEAD TRUSS SIGN SUPPORT CROSS SECTION
(LOOKING AT FRONT OF SIGN E.B.)
SIGN NO. 084-34-390A, B AND C
I-84 E.B. STA. 114+00
PROJECT 34-313



NEW SUPPORT NO'S. 22013A, 22013B & 22013C
ATTACHED TO BRIDGE STRUCTURE
SIGN CROSS SECTION
(LOOKING EAST AT FRONT OF SIGN)
ROUTE 37 STA. 311+52
PROJECT 34-313

NOTES:

THIS SHEET IS USED TO SHOW THE LOCATION OF SIGN SUPPORT FOUNDATIONS RELATIVE TO THE EDGE OF ROAD AND THE LOCATION OF SIGNS RELATIVE TO THE ROADWAY LANES AND CROSS SLOPE.

ALL INFORMATION ON THIS SHEET IS APPROXIMATE.

THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO ORDERING SIGN SUPPORT STRUCTURES.

BOTTOM OF SIGN TO BE A MIN OF 18'-0" FROM HIGH POINT OF ROADWAY.

RIGHT EDGE OF EXIT CROWN (FACING ONCOMING TRAFFIC) TO BE ALIGNED WITH RIGHT EDGE OF SIGN AS SHOWN.

SEE STRUCTURE SHEETS SMSS-001 AND SMSS-002 FOR BRIDGE MOUNTED SIGN SUPPORT AND MOUNTING DETAILS.

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.

DESIGNER/DRAFTER: M. DION
CHECKED BY: R. GOMEZ
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
ENGINEER: AECOM USA INC. / VN ENGINEERS, Inc.
APPROVED BY: SOFIA NIRSHBERG, PE
DATE: 03/28/2014

PROJECT TITLE: I-84 INTERCHANGES 5 & 6 IMPROVEMENTS

TOWN: DANBURY

DRAWING TITLE: OVERHEAD SIGN CROSS SECTION (INT 6)

PROJECT NO. 34-313
DRAWING NO. SPM-011
SHEET NO. 06.12

Filename: TR_MSH_XSC_34-313_1.dgn 3/25/2014 Border Version: 6/1/05

R1 - SERIES

R1-1 *

STOP

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.31	24	31-0536	1	.080
5.19	30	31-0552	1	.080
7.98	36	31-0553	1	.080
13.3	48	31-0557	2	.100

R1-2 *

YIELD

LEGEND - RED
BACKGROUND -WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.90	36	31-0523	1	.080
6.77	48	31-0522	2B	.100
10.83	60	31-0528	2B	.100

R1-3 *

ALL-WAY

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	31-0508		.080

R2 - SERIES

R2-1

SPEED LIMIT 00

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-5505	1	.080
7.50	30X36	31-5504	1	.080
12.00	36X48	31-5506	2	.100
20.00	48X60	31-5507	2	.100

R2-4a

SPEED LIMIT 00 MINIMUM 00

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
32.00	48X96	31-5510	2B	.125

SPEED CHECKED BY RADAR

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-5512	1	.080
20.00	48X60	31-5532	2	.100

R3 - SERIES

R3-1

NO RIGHT TURN

31-1604 OVERHEAD MTD
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1604		.080
6.25	30X30	31-1617	1	.080
5.00	30X24	31-1618		.080
9.00	36X36	31-1627	2	.080
7.50	36X30	31-1628		.080

R3-5

ONLY (L) ONLY (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0135L	1	.080
4.00	24X24	31-0138R	1	.080
7.50	30X36	31-0183L	1	.080
7.50	30X36	31-0184R	1	.080

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-0125	1	.080
6.25	30X30	31-0165	1	.080
7.50	30X36	31-0175	1	.080

ONLY ONLY 31-0282 31-0283

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

R3-8b

ONLY ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	31-0302	2	.100

LEFT LANE MUST TURN LEFT — RIGHT LANE MUST TURN RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-0121L	2	.100
20.00	48X60	31-0122R	2	.100

R3-2

NO LEFT TURN

31-1603 OVERHEAD MTD
LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1603		.080
6.25	30X30	31-1619	1	.080
5.00	30X24	31-1620		.080
9.00	36X36	31-1629	2	.080
7.50	36X30	31-1630		.080

R3-6

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0157L	1	.080
7.50	30X36	31-0158R	1	.080

ONLY ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	30X24	31-0290	1	.080

ONLY 31-0295 31-0219

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30		2	.080

ONLY ONLY 31-0307 31-0372

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30		2	.100

LEFT LANE MUST TURN LEFT AHEAD — RIGHT LANE MUST TURN RIGHT AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-0124L	2	.100
20.00	48X60	31-0137R	2	.100

R3-3

NO TURNS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1648	1	.080
9.00	36X36	31-1647	1	.080

R3-7L LEFT LANE MUST TURN LEFT — R3-7R RIGHT LANE MUST TURN RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0117L	1	.080
6.25	30X30	31-0118R	1	.080
9.00	36X36	31-0120L	1	.080
9.00	36X36	31-0123R	1	.080

ONLY ONLY 31-0222 31-0223

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080

ONLY ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.0	30X24	31-0247	1	.080

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0334	2	.100

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
11.25	54X30	31-0353	2	.100

R3-4

LEGEND - BLACK
BACKGROUND - WHITE
CIRCLE & DIAGONAL - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	31-1622	1	.080
9.00	36X36	31-1632	1	.080

R3-48

ONLY (L) ONLY (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-0262L	1	.080
6.25	30X30	31-0261R	1	.080

ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0279	2	.100

ONLY ONLY 31-0370 31-0371

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30		2	.100

ONLY ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
8.75	42X30	31-0384	2	.100

R4 - SERIES

R4-1

DO NOT PASS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1502	1	.080

KEEP RIGHT EXCEPT TO PASS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1574	2	.100

SLOW VEHICLES KEEP RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1504	2	.100

R4-3

SLOWER TRAFFIC KEEP RIGHT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1562	1	.080
20.00	48X60	31-1564	2	.100

R4-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1526	1	.080
12.00	36X48	31-1536	2	.100
20.00	48X60	31-1546	2	.100

R5 - SERIES

R5-1 *

DO NOT ENTER

LEGEND - WHITE
BACKGROUND - WHITE
CIRCLE - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	31-1119	1	.080
9.00	36X36	31-1120	1	.080
16.00	48X48	31-1121	2	.100

PROHIBITED PEDESTRIANS MOTOR BIKES MOTOR SCOOTERS BICYCLES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1777	2	.080

R5-1 *

WRONG WAY

LEGEND - WHITE
BACKGROUND - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1122	2	.080
8.75	42X30	31-1123	2	.100

EMERGENCY AND AUTHORIZED VEHICLES ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1790	1	.080
20.00	48X60	31-1792	2	.100

PROHIBITED
COMMERCIAL VEH
TRAILERS
COMBINATION VEH OVER 7500 LBS
VEH. OVER 8' HIGH
MOPEDS - BICYCLES PEDESTRIANS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.00	54X72	31-1719	2	.125

NO PEDESTRIAN CROSSING

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1702	1	.080

PEDESTRIANS PROHIBITED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1776	1	.080

NO PEDESTRIANS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1774	1	.080

NO PEDESTRIANS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	31-1774	1	.080

NO PEDESTRIANS BICYCLES MOTOR BIKES MOTOR SCOOTERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	36X24	31-1775	2	.080

R6 - SERIES

R6-1

(L) ONE WAY
(R) ONE WAY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	36X12	31-1188L	1	.080
3.00	36X12	31-1177R	1	.080
6.75	54X18	31-1189L	1	.100
6.75	54X18	31-1178R	1	.100

R7 - SERIES

HANDICAPPED PARKING PERMIT REQUIRED
VIOLATORS WILL BE FINED MIN $150

(R) ⟹
(D) ⟺ (L)
(P) (NO ARROW)
LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	12X24	31-0629	1	.080

R7-1

NO PARKING ANY TIME

(R) ⟹ (L)
(D) ⟺
LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0630	1	.080

R7-2

NO PARKING 0:00 AM TO 0:00 PM

VARIABLE TIMES
(R) ⟹ (L)
(D) ⟺
LEGEND - RED
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	31-0603	1	.080

R8 - SERIES

R8-7

EMERGENCY STOPPING ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
13.50	54X36	31-0667	2	.100

R9 - SERIES

HITCHHIKING PROHIBITED DO NOT STOP

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
27.50	66X60	31-1733	2B	.125

R10 - SERIES

R10-6

STOP HERE ON RED 31-0801 — STOP HERE ON RED 31-0802

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.00	24X36		1	.080

NO TURN ON RED

OVERHEAD MOUNTED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	31-0817		.080
4.00	24X24	31-0823		.080
9.00	36X36	31-0816		.080

RIGHT TURN ON RED FROM RIGHT LANE ONLY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	30X36	31-0847	1	.080
20.00	48X60	31-0849	2	.100

DO NOT BLOCK DRIVEWAY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0803	1	.080
12.00	36X48	31-0804	2	.100

R10-10L

LEFT TURN SIGNAL

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	31-0841	1	.080
5.00	24X24	31-0842	1	.080

DO NOT BLOCK INTERSECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-0806	1	.080
12.00	36X48	31-0807	2	.100

R10-11a

NO TURN ON RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	31-0818	1	.080
5.00	24X30	31-0824	1	.080
7.50	30X36	31-0830	1	.080
12.00	36X48	31-0819	2	.100

R11 - SERIES

R11-1

KEEP OFF MEDIAN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	31-1915	1	.080
20.00	48X60	31-1918	2	.100

THIS SIGN ADDED FOR THIS PROJECT ONLY.

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R- SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
2. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING.
   FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS".
   SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
3. POSTS - SEE TYP. SHEET (SHT #9) - "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
4. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
5. FOR OVERHEAD MOUNTED SIGNS, SEE TYPICAL SIGNAL SHEET - "MISC. TRAFFIC SIGNAL INSTALLATION DETAILS."
6. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM.
   SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
7. BACKGROUND SHEETING SHALL BE TYPE III RETROREFLECTIVE SHEETING, EXCEPT NOTED BY *.

COLORS:

R-SERIES
BACKGROUND - WHITE (SILVER) - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL COLORS SHALL BE RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.
* SIGNS TO BE "BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING".

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename2012-11-20_CTDOT_TRAFFIC_GD.dgn 3/25/2014 Border Version: 6/1705

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: **M. DION**
CHECKED BY: **R. GOMEZ**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **SIGN FACE SHEET ALUMINUM R-SERIES SIGNS TYPICAL DETAILS**

PROJECT NO. **34-313**
DRAWING NO. **SDS-001**
SHEET NO. **06.13**

S - SERIES

S1-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.69	30	41-2111	1	.080
6.75	36	41-2112	1	.080
12.00	48	41-2113	2	.100

W1 - SERIES

W1-1L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4006	1	.080
16.00	48	41-4056	2	.100

W1-1R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4005	1	.080
16.00	48	41-4055	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4012	1	.080
16.00	48	41-4062	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4011	1	.080
16.00	48	41-4061	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4028	1	.080
16.00	48	41-4068	2	.100

W1-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4027	1	.080
16.00	48	41-4067	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4038	1	.080
16.00	48	41-4088	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4037	1	.080
16.00	48	41-4087	2	.100

W1-6

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-4221	1	.080
8.00	48X24	41-4222	2	.100
12.50	60X30	41-4224	2	.100

W1-7

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-4209	1	.080
8.00	48X24	41-4207	2	.100
12.50	60X30	41-4208	2	.100

W1-10L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4034	1	.080
16.00	48	41-4090	2	.100

W1-10R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4033	1	.080
16.00	48	41-4089	2	.100

W1-8

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	12X18	41-4202	1	.080
3.00	18X24	41-4250	1	.080
5.00	24X30	41-4203	1	.080
7.50	30X36	41-4204	1	.080

W2 - SERIES

W2-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4226	1	.080
9.00	36	41-4236	1	.080
16.00	48	41-4246	2	.100

W2-2

(LEFT OR RIGHT)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4225	1	.080
9.00	36	41-4235	1	.080
16.00	48	41-4245	2	.100

W2-3

(L) (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4220L	1	.080
6.25	30	41-4219R	1	.080
16.00	48	41-4244L	2	.100
16.00	48	41-4243R	2	.100

W2-4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4217	1	.080
16.00	48	41-4247	2	.100

W3 - SERIES

W3-1

OCTAGON - RED

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0501	1	.080
9.00	36	41-0502	1	.080
16.00	48	41-0503	2	.100

W3-2

TRIANGLE - RED & WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0504	1	.080
9.00	36	41-0505	2	.100
16.00	48	41-0506	2	.100

W3-3

SYMBOL & LEGEND - BLACK
BACKGROUND - YELLOW
TOP CIRCLE - RED
BOTTOM CIRCLE - GREEN

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-0836	1	.080
16.00	48	41-0848	2	.100
24.00	60	41-0860	2	.125

WHEN FLASHING STOP AHEAD

W/ FLASHERS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
25.00	60	41-0534	2B	.125

W4 - SERIES

W4-1L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4450	1	.080
9.00	36	41-4448	1	.080
16.00	48	41-4452	2	.100

W4-1R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4451	1	.080
9.00	36	41-4449	1	.080
16.00	48	41-4459	2	.100

W4-2L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4442	1	.080
16.00	48	41-4446	2	.100

W4-2R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4441	1	.080
16.00	48	41-4447	2	.100

W4-3L

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4433	1	.080
16.00	48	41-4435	2	.100

W4-3R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4432	1	.080
16.00	48	41-4434	2	.100

W5 - SERIES

W5-1

ROAD NARROWS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4401	1	.080
16.00	48	41-4404	2	.100

W6 - SERIES

W6-1 W6-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4333	1	.080
9.00	36	41-4335	1	.080

W6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4327	1	.080
9.00	36	41-4329	1	.080
16.00	48	41-4331	2	.100

W7 - SERIES

W7-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4506	1	.080
16.00	48	41-4508	2	.100

W8 - SERIES

W8-5

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4519	1	.080
9.00	36	41-4520	1	.080
16.00	48	41-4521	2	.100

W9 - SERIES

W9-1

LEFT LANE ENDS (L)
RIGHT LANE ENDS (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4443L	1	.080
9.00	36	41-4440R	1	.080
16.00	48	41-4444L	2	.100
16.00	48	41-4445R	2	.100

W9-2

LANE ENDS MERGE LEFT (L)
LANE ENDS MERGE RIGHT (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4454L	1	.080
9.00	36	41-4453R	1	.080
16.00	48	41-4456L	2	.100
16.00	48	41-4455R	2	.100

SLOW VEHICLE LANE ENDS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
22.00	66X48	41-1510	2	.100

W10 - SERIES

W10-1

R R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.77	18	41-2202	1	.080
7.07	36	41-2201	1	.080

W11 - SERIES

W11-2

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4810	1	.080
9.00	36	41-4811	1	.080
16.00	48	41-4812	2	.100

W11-8

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4680	1	.080
16.00	48	41-4692	2	.100

W12 - SERIES

W12-1

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24	41-4212	1	.080
16.00	48	41-4214	2	.100

LEFT LANE

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	41-4729		.080

W12-2

00'-0"

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4704	1	.080
9.00	36	41-4706	1	.080
16.00	48	41-4708	2	.100

RIGHT LANE

(SUBPLATE)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	36X30	41-4728		.080

W13 - SERIES

W13-1

00 M.P.H. — 41-5568, 41-5569, 41-5572
00 M.P.H. — 41-5570

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	18X18	41-5568	1	.080
4.00	24X24	41-5569	1	.080
7.50	36X30	41-5570	1	.080
16.00	48X48	41-5572	2	.100

W13-2

EXIT 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	41-5596	2	.100

W13-3

RAMP 00 M.P.H.

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	41-5598	2B	.100

W16 - SERIES

W16-2a

41-6130 000 FT
41-6132 000 FT
41-6134 0000 FT

(SUBPLATE)
USE AT ADVANCE SIGN LOCATION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6130		.080
3.75	30X18	41-6132		.080
7.00	42X24	41-6134		.100

W16-7PL

(SUBPLATE)
USE WITH S1-1 & W11-2
PEDESTRIAN SIGNS AT CROSSWALK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2607		.080
3.75	30X18	41-2608		.080

W16-7PR

(SUBPLATE)
USE WITH S1-1 & W11-2
PEDESTRIAN SIGNS AT CROSSWALK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-2609		.080
3.75	30X18	41-2610		.080

AHEAD

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.75	30X18	41-6112	1	.080
6.00	36X24	41-6116	1	.100
12.00	48X36	41-6115	2	.100

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE TYP. SHEET (SHT #9) - "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

R-SERIES
BACKGROUND - YELLOW - EXCEPT AS NOTED.
LEGEND - BLACK - EXCEPT AS NOTED.
ALL COLORS SHALL BE TYPE III RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename2012-11-20_CTDOT_TRAFFIC_GD.dgn 3/25/2014 Border Version: 6/7/05

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: **M. DION**
CHECKED BY: **R. GOMEZ**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **SIGN FACE SHEET ALUMINUM S&W SERIES SIGNS TYPICAL DETAILS**

PROJECT NO. **34-313**
DRAWING NO. **SDS-002**
SHEET NO. **06.14**

D1 - SERIES

D1-1 51-5202 (VARIABLE) →

D1-2 51-5203 (VARIABLE) (VARIABLE) →

VARIABLE LEGEND & ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.17	60X10	51-5202	2	.100
8.33	60X20	51-5203	2	.100

D2 - SERIES

D2-1 51-5222 (VARIABLE) 00

D2-2 51-5223 (VARIABLE) (VARIABLE) 00

VARIABLE LEGEND & MILEAGE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.17	60X10	51-5222	2	.100
8.33	60X20	51-5223	2	.100

D3 - SERIES

(VARIABLE ROAD NAME)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	48X12	51-2010	2	.100
5.00	60X12	51-2011	2	.100
6.00	72X12	51-2012	2	.100
7.00	84X12	51-2013	2	.100

D4 - SERIES

PARK & RIDE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6001	1	.080

PARK & RIDE 51-6002

PARK & RIDE 51-6003

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
5.00	24X30	51-6002	1	.080
5.00	24X30	51-6003	1	.080

51-2666 51-2646 L or R

51-2645

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	12X9	51-2666		.080
2.19	21X15	51-2646		.080
2.19	21X15	51-2645		.080

51-2650

51-2651

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.19	21X15	51-2650		.080
2.19	21X15	51-2651		.080

NOTICE
THIS PARKING AREA PATROLLED

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
15.00	60X36	51-5937	2	.100

PARK AT YOUR OWN RISK
REMOVE KEYS AND LOCK CAR
NOT RESPONSIBLE FOR
PROPERTY LOST OR STOLEN

LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.50	36X18	51-6037	1	.080

RAILWAY MUSEUM

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24	51-6826	1	.080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24	51-5927	1	.080

D5 - SERIES

D5-2b REST AREA →

LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
42.25	78	51-6901	2B	.125

SERVICE AREA →

LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
35.00	84X60	51-6158	2B	.125

D7 - SERIES

D-7 51-6802 (VARIABLE) →

51-6803 (VARIABLE) (VARIABLE) →

W or W/O ARROW
VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.17	60X10	51-6802	2	.100
8.33	60X20	51-6803	2	.100

D9 - SERIES

D9-2 H

** FOR ARROW SUBPLATES
USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24	51-6788	1	.080

D9-3a

** FOR ARROW SUBPLATES
USE M5 & M6 SERIES

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24	51-6762	1	.080

51-6705 DIESEL →
51-6706 FOOD →
51-6707 PHONE →
51-6708 GAS →
51-6709 LODGING →

VARIABLE ARROW DIRECTION

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.25	36X9		1	.080

D10 - SERIES

D10-1 MILE 0

D10-2 MILE 0 0

D10-3 MILE 0 0 0

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	12X24	51-5291	1	.080
3.00	12X36	51-5292	1	.080
4.00	12X48	51-5293	1	.080

N 0 .0 | N 0 0 .0 | N 0 0 0 .0

CARDINAL DIRECTION VARIABLE - N, S, E, W

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.88	10X27	51-5300	1	.080
2.49	10X36	51-5301	1	.080
3.33	10X48	51-5302	1	.080

NORTH 95 MILE 000

CARDINAL DIRECTION,
SHIELD AND NUMERALS ARE VARIABLE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.75	18X54	51-5307	1	.080

RECREATIONAL RW- SERIES

RW-080

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24	51-6873	1	.080

51-2705

51-2706 L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.19	21X15	51-2705		.080
2.19	21X15	51-2706		.080

E5 - SERIES

E5-1a EXIT (L) EXIT (R)

FOR USE AT "NO NUMBERED" EXITS

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. # (L or R)	POSTS	ALUM. THK.
30.00	72X60	51-6150	2B	.125

E5-1a EXIT 00 (L) EXIT 00 (R)

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. # (L or R)	POSTS	ALUM. THK.
30.00	72X60	51-6152	2B	.125
37.50	90X60	51-6153	2B	.125
47.50	114X60	51-6154	2B	.125

I - SERIES

(VARIABLE) RIVER

VARIABLE: RIVER, BROOK, CREEK

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
1.50	18X12	51-2009	1	.080
12.00	48X36	51-2051	2	.100

(TOWN NAME) (INCORPORATED OR SETTLED) (DATE) TOWN LINE

VARIABLE: TOWN / CITY

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
7.50	40X27	51-2020	2	.080

(NAME) Connecticut

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
10.00	48X30	51-2040	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30	51-1344		.080

M1 - SERIES

M1-1 INTERSTATE CONNECTICUT 00

VARIABLE: 1, 2 or 3 DIGITS
LEGEND - WHITE
BACKGROUND - RED & BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.20	24X24	51-6662	1	.080
3.99	30X24	51-6663	1	.080
7.20	36X36	51-6666	2	.080
8.99	45X36	51-6667	2	.100

M1-4 00

VARIABLE: 1, 2 or 3 DIGITS
LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6615	1	.080
9.00	36X36	51-6635	2	.080

M1-5 00

VARIABLE: 1, 2 or 3 DIGITS
LEGEND - BLACK
BACKGROUND - WHITE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
4.00	24X24	51-6616	1	.080
9.00	36X36	51-6636	2	.080

M2 - SERIES

M2-1 JCT

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-6640	(1)	.080
2.19	21X15	51-6610	(2)	.080

M3 - SERIES

M3-1 NORTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6651	(1)	.080
2.00	24X12	51-6611	(2)	.080
3.12	30X15	51-6671	(1)	.080
3.12	30X15	51-6631	(2)	.080

M3-4 WEST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6654	(1)	.080
2.00	24X12	51-6614	(2)	.080
3.12	30X15	51-6674	(1)	.080
3.12	30X15	51-6634	(2)	.080

M3-2 EAST

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6652	(1)	.080
2.00	24X12	51-6612	(2)	.080
3.12	30X15	51-6672	(1)	.080
3.12	30X15	51-6632	(2)	.080

M3-3 SOUTH

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6653	(1)	.080
2.00	24X12	51-6613	(2)	.080
3.12	30X15	51-6673	(1)	.080
3.12	30X15	51-6633	(2)	.080

M4 - SERIES

M4-5 TO

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.00	24X12	51-6650	(1)	.080
2.00	24X12	51-6620	(2)	.080

RIGHT LANE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
4.0	24X24	51-7699	2	.080

M5 - SERIES

M5-1 L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2690L	(1)	.080
2.19	21X15	51-2691R	(1)	.080
2.19	21X15	51-2630L	(2)	.080
2.19	21X15	51-2631R	(2)	.080

M5-2 L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2692L	(1)	.080
2.19	21X15	51-2693R	(1)	.080
2.19	21X15	51-2632L	(2)	.080
2.19	21X15	51-2633R	(2)	.080

M6 - SERIES

M6-1 L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2686	(1)	.080
2.19	21X15	51-2626	(2)	.080

M6-4

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2697	(1)	.080
2.19	21X15	51-2627	(2)	.080

M6-2 L or R

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2688L	(1)	.080
2.19	21X15	51-2689R	(1)	.080
2.19	21X15	51-2628L	(2)	.080
2.19	21X15	51-2629R	(2)	.080
4.89	32X22	51-2609R	(2)	.080

M6-3

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	COLOR	ALUM. THK.
2.19	21X15	51-2685	(1)	.080
2.19	21X15	51-2625	(2)	.080

SYMBOL - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
3.00	18X24	51-5943	1	.080

51-6504 (VARIABLE)

51-6505 (VARIABLE) (VARIABLE)

TO BE SUBMOUNTED W/ 51-5943
LEGEND - WHITE
BACKGROUND - BLUE

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
0.75	18X6	51-6504	1	.080
1.50	18X12	51-6505	1	.080

THIS SIGN ADDED FOR _____ THIS PROJECT ONLY.

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
2. POSTS - SEE TYP. SHEET (SHT #9) - "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

COLORS:

D - SERIES
D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE
D7, RW BACKGROUND-BROWN, LEGEND-WHITE
D9 BACKGROUND-BLUE, LEGEND-WHITE
ALL OTHER D-SERIES AS NOTED

E - SERIES
BACKGROUND-GREEN, LEGEND-WHITE

I - SERIES
BACKGROUND-GREEN, LEGEND-WHITE
(EXCEPT AS NOTED)

M2 - M6 SERIES
(1) BACKGROUND-BLUE, LEGEND-WHITE
(2) BACKGROUND-WHITE, LEGEND-BLACK

ALL COLORS SHALL BE TYPE III RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename2012-11-20_CTDOT_TRAFFIC_GD.dgn 3/25/2014 Border Version: 6/7/05

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: **M. DION**
CHECKED BY: **R. GOMEZ**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

STATE OF CONNECTICUT SOFIA M. NIRSHBERG LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **SIGN FACE SHEET ALUMINUM D,E,I,&M SERIES SIGNS TYPICAL DETAILS**

PROJECT NO. **34-313**
DRAWING NO. **SDS-003**
SHEET NO. **06.15**

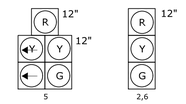
NONE					MOVEMENT DIAGRAM PRE-EMPT 1																			
NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE # 2	Y				G	G	G	R	R	R				R	R	R	R	R	R						
5	Y				G	Y	R	R	R	R				◄ R	◄Y R	R	R	R	R						
6	Y				R	R	R	R	R	R				R	R	R	G	G	G						
						◄ YIELD												◄ YIELD						
P		◄ DW ►						WØ ◄ DW ►																
MIN					5	3	0	7/17	4	0				5	3	0	15	3	1						
MAX					65	5	3	11/20	4	1				65	5	3	50	5	3						
INTERVALS MIN GRN					15									5			15								
WALK								7																	
PED CLR								14 ①																	
VEH EXT					2									2			2								
MAX 1					41									35			41								
MAX 2					48									29			48								
YELLOW						5			4						5			5							
RED							2			0						0			2						
ADD INIT									COUNTDOWN PEDESTRIAN SIGNAL																
MAX INIT																									
TBR																									
TTR																									
MIN GAP																									
MODE		OFF			MIN RECALL			MIN RECALL			OFF			NON-LOCK			MIN RECALL			OFF			OFF		
INT START					THIS PHASE			THIS PHASE									THIS PHASE								

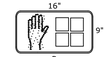
ENERGY BY- CITY | METER # - | INTERSECTION # 34-309

MAINT LEVEL N/A | SERVICE POLE- CL&P 179

UNMETERED SERVICE

SIGNAL FACES





ALL INDICATIONS TO HAVE LED LAMPS, TUNNEL VISORS AND RETROREFLECTIVE BACKPLATES WITH YELLOW RETROREFLECTIVE BORDERS.
PEDESTRIAN SIGNAL HEAD TO HAVE COUNTDOWN TIMER

PRE-EMPTION SETTINGS

	PRE-EMPT 1
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	14
HOLD GREEN	15
HOLD YELLOW	5
HOLD RED	2
HOLD PHASE	6
EXIT PHASE	2&6
EXIT CALL	NONE

OFFICE RECORD

STC # SM #

SIGNAL IN OPERATION:

SIGNAL INSTALLED UNDER STATE PROJECT #34-313.

CITY SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF DANBURY
ROUTE 37 (NORTH ST.)
AT I-84 E.B. ON RAMP

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER				
DRAFTER				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE				

VN ENGINEERS

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2	6' X 20'	VIDEO	PRESENCE
D2A	6' X 20'	VIDEO	PRESENCE
D2R	6' X 6'	4	PRESENCE
D2AR	6' X 6'	4	PRESENCE
D5	6' X 30'	VIDEO	PRESENCE
D6	6' X 20'	VIDEO	PRESENCE
D6A	6' X 20'	VIDEO	PRESENCE
D6R	6' X 6'	4	PRESENCE
D6AR	6' X 6'	4	PRESENCE

PROGRAM

FUNCTION	T I M E	DAYS
FLASH	2300 - 0600	DAILY
MAX 1	1600 - 1800	DAILY
MAX 2	FUTURE	
FREE	FUTURE	

COORDINATION TYPE- CENTRALIZED ADAPTIVE CONTROL SYSTEM

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD Ø	SEC

SYSTEM LOC MASTER	
CENTRAL CITY HALL	
34-227	
34-263	
34-309	
34-235	
34-207	
34-299	

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
PHASE 5 TO DRIVE FACE #5 GREEN AND YELLOW ARROWS
PHASE 2 TO DRIVE FACE #5 RED, YELLOW AND GREEN
TIMING SHOWN REFLECTS OFF-LINE TRAFFIC SIGNAL OPERATION ONLY. ACTUAL TIMING IS TO BE DETERMINED BY THE CENTRALIZED ADAPTIVE CONTROL SYSTEM.
ACTUAL HOLD GREEN FOR EMV PRE-EMPTIONS IS TO BE DETERMINED BY EMERGENCY VEHICLE PRESENCE.
PRE-EMPTION IS TO BE INOPERATIVE DURING FLASHING OPERATION.
① COUNTDOWN ONLY DURING PEDESTRIAN CHANGE INTERVAL
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PEDESTRIAN CHANGE INTERVAL

LEGEND:
R RED | ◄R RED ARROW | WØ WALK/ PED. CLR
Y YELLOW | ◄Y YELLOW ARROW | D.W. DON'T WALK
G GREEN | ◄— GREEN ARROW | FL. FLASHING

CONSTRUCTION NOTES AND SPECIFICATIONS

ALL TRAFFIC EQUIPMENT SHALL BE NEW.

CONTRACTOR SHALL STAKE ALL R.O.W. PRIOR TO EXCAVATION.

CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO EXCAVATION.

CONTRACTOR IS TO CONTACT ALL PUBLIC AND PRIVATE UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION TO INFORM AND RESOLVE ALL RELATIVE ISSUES.

ALL SIGNAL HEADS ARE TO BE FIXED MOUNTED ON MAST ARMS IN ACCORDANCE WITH CONNDOT STANDARD SPECIFICATIONS.

ALL EQUIPMENT INCLUDING SIGNAL HEADS, MAST ARMS, AND CABINET SHALL BE DARK GREEN, NO. 14056, FEDERAL STANDARD NO. 595.

ALL INTERSECTIONS ARE TO BE HARDWARE INTERCONNECTED UTILIZING CORNING TWELVE (12) STRANDS SINGLE MODE, ALTOS GEL-FREE, FIBER OPTIC CABLE.

ⓦ INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

ALL HANDHOLES INSTALLED WITHIN SIDEWALKS TO HAVE CAST IRON COVERS.

ALL COPPER AND OPTICAL CABLES ARE TO BE CONTINOUS WITHOUT SPLICES UNLESS OTHERWISE NOTED.

SIGNAL APPURTENANCES (MAST ARMS, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE FIELD LOCATED TO PROVIDE A FREE PATH OF NOT LESS THAN 4.0 FEET. ANY PROPOSED REVISIONS TO THE LOCATIONS OF THE APPURTENANCES SHOWN ON THE PLANS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING AND THE CITY OF DANBURY.

ALL INDUCTIVE LOOP DETECTORS TO BE PREFORMED WITH 4 TURNS TYPE.

INSTALL SIGN NO. 31-0845 AT PEDESTRIAN PUSH BUTTON LOCATIONS.

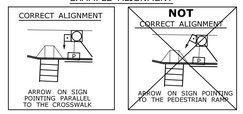
ALL PUSH BUTTONS ARE TO BE ADA PRESSURE SENSITIVE.

EMERGENCY PRE-EMPTION NOTES

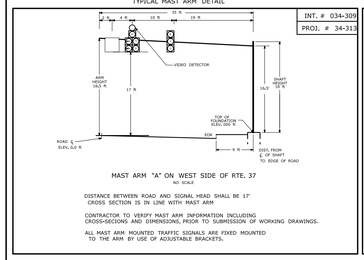
CONTRACTOR TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE AUXILIARY EQUIPMENT CABINET.

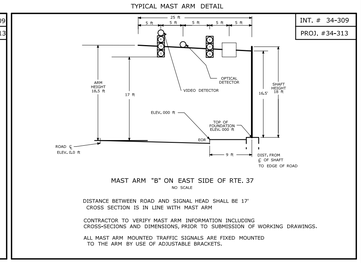
PEDESTRIAN PUSHBUTTON EXAMPLE ALIGNMENT



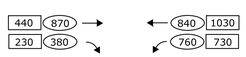
TYPICAL MAST ARM DETAIL



TYPICAL MAST ARM DETAIL



SIGNAL HOOK-UP CHART 34-309			
HEAD #	COLORS	PHASE	TERMINALS
2	R,Y,G	2	128,129,130
5	YA, GA	5	132,133
5	R,Y,G	2	128,129,130
6	R, Y, G	6	134,135,136
P	DW, W	P	119,121



TRAFFIC VOLUME DIAGRAM
TRAFFIC YEAR 2008

0000 AM PEAK
0000 PM PEAK

TRAFFIC VOLUME DIAGRAM
TRAFFIC YEAR 2025

0000 AM PEAK
0000 PM PEAK

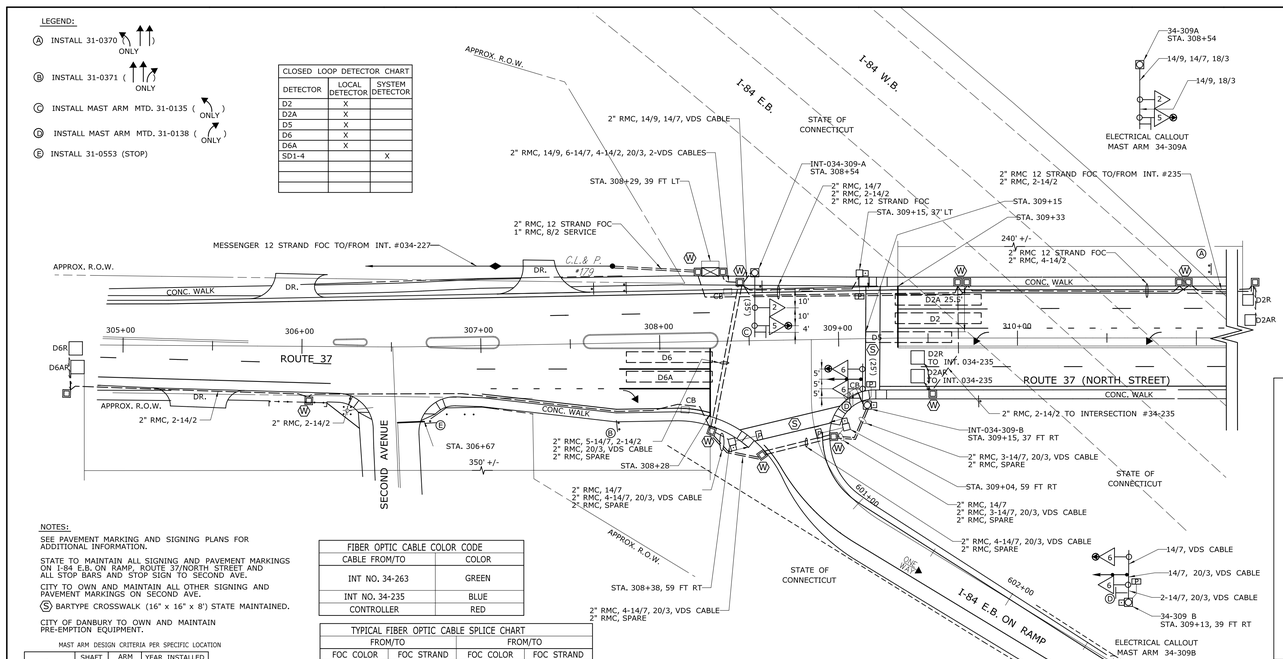
CITY SIGNAL

REV. # | INTERSECTION # 34-309

LEGEND:

Ⓐ INSTALL 31-0370 (ONLY)
Ⓑ INSTALL 31-0371 (ONLY)
Ⓒ INSTALL MAST ARM MTD. 31-0135 (ONLY)
Ⓓ INSTALL MAST ARM MTD. 31-0138 (ONLY)
Ⓔ INSTALL 31-0553 (STOP)

CLOSED LOOP DETECTOR CHART		
DETECTOR	LOCAL DETECTOR	SYSTEM DETECTOR
D2	X	
D2A	X	
D5	X	
D6	X	
D6A	X	
SD1-4		X



NOTES:

SEE PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL INFORMATION.

STATE TO MAINTAIN ALL SIGNING AND PAVEMENT MARKINGS ON I-84 E.B. ON RAMP, ROUTE 37/NORTH STREET AND ALL STOP BARS AND STOP SIGN TO SECOND AVE.

CITY TO OWN AND MAINTAIN ALL OTHER SIGNING AND PAVEMENT MARKINGS ON SECOND AVE.

Ⓢ BARTYPE CROSSWALK (16" x 16" x 8') STATE MAINTAINED.

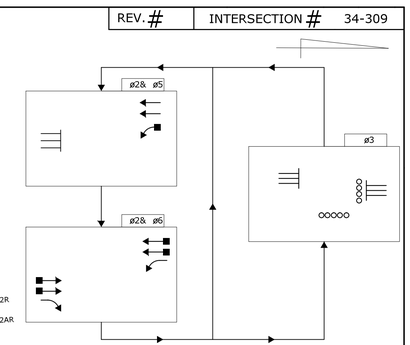
CITY OF DANBURY TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT.

MAST ARM DESIGN CRITERIA PER SPECIFIC LOCATION

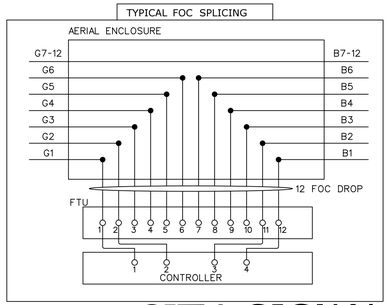
ID #	SHAFT HEIGHT	ARM LENGTH	YEAR INSTALLED
A	18	35	
B	18	25	

FIBER OPTIC CABLE COLOR CODE	
CABLE FROM/TO	COLOR
INT NO. 34-263	GREEN
INT NO. 34-235	BLUE
CONTROLLER	RED

TYPICAL FIBER OPTIC CABLE SPLICE CHART			
FROM/TO		FROM/TO	
FOC COLOR	FOC STRAND	FOC COLOR	FOC STRAND
GREEN	1-6	RED	1-6
BLUE	1-6	RED	7-12
NOTE: GREEN/BLUE 7-12 TO PASS THRU WITHOUT SPLICING			



TYPICAL FOC SPLICING



CITY SIGNAL

LEGEND:

- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- AUDIBLE PEDESTRIAN SIGNAL
- LOOP DETECTOR
- MAGNETIC DETECTOR
- SD SYSTEM DETECTOR
- OPTICAL DETECTOR
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- PROPOSED HANDHOLE
- EXISTING HANDHOLE
- PROPOSED R.M.C. (RIGID METAL CONDUIT)
- EXISTING R.M.C. (RIGID METAL CONDUIT)
- CABLE CLOSURE
- DET. LEADS IN SAW CUT
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- SIDEWALK RAMP
- SONIC DETECTOR
- VIDEO DETECTOR
- X VIDEO DETECTION ZONE

TRAFFIC CONTROL SIGNAL LAYOUT

CADD FILE NAME- PROJECT $FILE$
DATE PLOTTED: 3/25/2014
SCALE - 1" = 40'

CITY OF DANBURY
ROUTE 37 (NORTH ST.)
AT I-84 E.B. ON RAMP

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
PROJECT TITLE: I-84 INTERCHANGES 5 & 6 IMPROVEMENTS
SEAL

TOWN: DANBURY | PROJECT NO.: 34 313
DRAWING TITLE: | DRAWING NO.: TCS-001
SHEET NO.: 06.16

REV. # | INTERSECTION # 34-309

NONE	PRE-EMPT 1				MOVEMENT DIAGRAM			RAMP PRE-EMPT 1
NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8

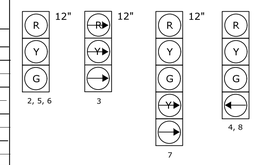
FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
2	Y	R	R	R	G	Y	R				R	R	R				R	R	R			
3	R	→	Y	R	R	R	R				R	R	R				R	R	R	→	Y	R
4	R	R	R	R	R	R	R				← G	Y	R				R	R	R	R	R	R
5	R	R	R	R	R	R	R				G	Y	R				R	R	R	R	R	R
6	Y	G	Y	R	R	R	R				R	R	R				G	Y	R	R	R	R
7	R	R →	R Y	R	R	R	R				R	R	R				R	R	R	G →	Y	R
8	R	R	R	R	R	R	R				R	R	R				R	R	R	← G	Y	R
					← YIELD												← YIELD					
MIN		5	3	1	15	3	1				5	3	1				15	3	1			
MAX		25	5	3	65	5	3				25	5	3				65	5	3			

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		5		15		5
WALK				21				
PED CLR				1				
VEH EXT	2	2.5		2		2		2
MAX 1	7	17		23		17		25
MAX 2	8	26		22		26		17
YELLOW	5	5		3		5		3
RED	2	2		2		2		2
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	MIN RECALL	MIN RECALL	OFF	NON-LOCK	OFF	MIN RECALL	OFF	NON-LOCK
INT START		THIS PHASE				THIS PHASE		

ENERGY BY- CITY | METER # - N/A | INTERSECTION # 034-235
MAINT LEVEL N/A | SERVICE POLE- SNET 1749

UNMETERED SERVICE

SIGNAL FACES



FACE 8 TO HAVE STRAIGHT RAY LOUVERS.

ALL INDICATIONS TO HAVE TUNNEL VISORS, LED LAMPS AND BACKPLATES WITH YELLOW RETROREFLECTIVE BORDERS

PRE-EMPTION SETTINGS

	PRE-EMPT 1	RAMP PRE-EMPT 1
PRIORITY	NO	NO
DET. LOCK	YES	YES
DELAY	0	5
ALT. MIN. GRN	5	5
ALT. YELLOW	PARENT	PARENT
ALT. RED	PARENT	PARENT
ALT. PED. CLR.	0	0
HOLD GREEN	15	25
HOLD YELLOW	5	3
HOLD RED	2	2
HOLD PHASE	2	8
EXIT PHASE	2&6	2&6
EXIT CALL	NONE	NONE

OFFICE RECORD

REVISION #

STC # SM #

SIGNAL REVISED:
SIGNAL PLAN REVISED INSTALLED ALL NEW EQUIPMENT AND OWNERSHIP TRANSFERRED TO THE CITY UNDER PROJECT 34-313.

CITY SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF DANBURY
ROUTE 37 (NORTH ST.) AT I-84
W.B. OFF RAMP AND PADANARAM AVE.

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER				
DRAFTER				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE				

VN ENGINEERS

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2	6' X 45'	VIDEO	PRESENCE
D2A	6' X 45'	VIDEO	PRESENCE
D2R	6' X 6'	4	PRESENCE
D2AR	6' X 6'	4	PRESENCE
D3	9' X 45'	VIDEO	PRESENCE
D3A	9' X 40'	VIDEO	PRESENCE
D4	6' X 30'	VIDEO	DELAY 8"
D6	6' X 45'	VIDEO	PRESENCE
D6A	6' X 45'	VIDEO	PRESENCE
D6R	6' X 6'	4	PRESENCE
D6AR	6' X 6'	4	PRESENCE
D8	9' X 45'	VIDEO	PRESENCE
D8A	6' X 20'	4	DELAY 8"

PROGRAM

FUNCTION	TIME	DAYS
FLASH	2300 - 0600	DAILY
MAX 1	1600 - 1800	DAILY
MAX 2	FUTURE	
FREE	FUTURE	

COORDINATION TYPE- CENTRALIZED ADAPTIVE CONTROL SYSTEM

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8

PERMIS PERIOD ø	SEC

SYSTEM LOC
MASTER CENTRAL CITY HALL
34-227
34-263
34-309
34-235
34-207
34-299

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
TIMING SHOWN REFLECTS OFF-LINE TRAFFIC SIGNAL OPERATION ONLY. ACTUAL TIMING IS TO BE DETERMINED BY THE CENTRALIZED ADAPTIVE CONTROL SYSTEM.
ACTUAL HOLD GREEN FOR EMV PRE-EMPTIONS IS TO BE DETERMINED BY EMERGENCY VEHICLE PRESENCE.
PRE-EMPTION IS TO BE INOPERATIVE DURING FLASHING OPERATION.
DETECTOR D8A TO BE IN DELAY MODE WITHOUT USING THE INHIBIT FEATURE.
RAMP PRE-EMPT 1 TO CALL RAMP PRE-EMPT 3 AT INT #034-207 AND 034-235.
DETECTOR 8A TO ACTUATE RAMP PRE-EMPT 1
PHASE 2 ON TO OMIT PHASE 1

LEGEND:
R RED | Y YELLOW | G GREEN | ◀R RED ARROW | ◀Y YELLOW ARROW | ◀— GREEN ARROW | WD WALK/ PED. CLR | D.W. DON'T WALK | FL. FLASHING

CONSTRUCTION NOTES AND SPECIFICATIONS

ALL TRAFFIC EQUIPMENT SHALL BE NEW.

CONTRACTOR SHALL STAKE ALL R.O.W. PRIOR TO EXCAVATION.

CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO EXCAVATION.

CONTRACTOR IS TO CONTACT ALL PUBLIC AND PRIVATE UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION TO INFORM AND RESOLVE ALL RELATIVE ISSUES.

ALL EQUIPMENT INCLUDING SIGNAL HEADS, SPAN POLES, AND CABINET SHALL BE DARK GREEN, NO. 14056, FEDERAL NO. 595.

ALL INTERSECTIONS ARE TO BE HARDWARE INTERCONNECTED UTILIZING CORNING TWELVE (12) STRANDS SINGLE MODE, ALTOS GEL-FREE, FIBER OPTIC CABLE.

ALL COPPER AND OPTICAL CABLES ARE TO BE CONTINOUS WITHOUT SPLICES UNLESS NOTED OTHERWISE.

SIGNAL APPURTENANCES (MAST ARMS, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE FIELD LOCATED TO PROVIDE A FREE PATH OF NOT LESS THAN 4.0 FEET. ANY PROPOSED REVISIONS TO THE LOCATIONS OF THE APPURTENANCES SHOWN ON THE PLANS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING AND THE CITY OF DANBURY.

(U) INSTALL CAMERA VIDEO DETECTION ON 16' CAMERA ARM.

(M) SPAN POLE REQUIRES 2 SPAN CLAMPS.

(W) INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

ALL HANDHOLES INSTALLED WITHIN SIDEWALK SHALL HAVE CAST IRON COVERS.

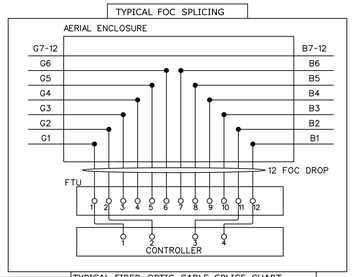
ALL INDUCTIVE LOOP DETECTORS ARE TO BE PREFORMED WITH 4 TURNS TYPE.

EMERGENCY PRE-EMPTION NOTES

CONTRACTOR TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

PRE-EMPTION DETECTOR LOCATIONS ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH DETECTOR AND THE AUXILIARY EQUIPMENT CABINET.

TYPICAL FOC SPLICING

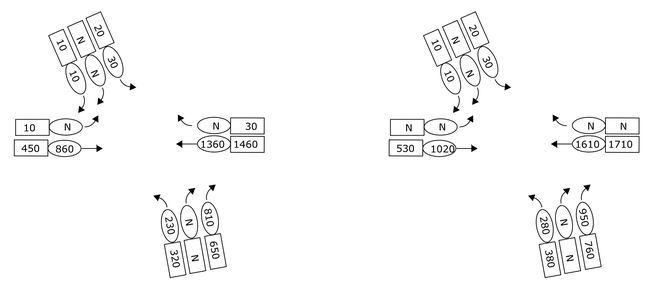


FIBER OPTIC CABLE COLOR CODE	
CABLE FROM/TO	COLOR
INT NO. 34-309	GREEN
INT NO. 34-207	BLUE
CONTROLLER	RED

TYPICAL FIBER OPTIC CABLE SPLICE CHART

FROM/TO		FROM/TO	
FOC COLOR	FOC STRAND	FOC COLOR	FOC STRAND
GREEN	1-6	RED	1-6
BLUE	1-6	RED	7-12

NOTE: GREEN/BLUE 7-12 TO PASS THRU WITHOUT SPLICING



TRAFFIC VOLUME DIAGRAM
TRAFFIC YEAR 2008
0000 AM PEAK
0000 PM PEAK

TRAFFIC VOLUME DIAGRAM
TRAFFIC YEAR 2025
0000 AM PEAK
0000 PM PEAK

CITY SIGNAL

REV. # | INTERSECTION # 034-235

LEGEND:
(A) INSTALL 31-0247 (ONLY ONLY)
(B) INSTALL 31-0371 (ONLY)
(C) SPAN MTD. 31-1603 (NO LEFT TURN)
(D) SPAN MTD. 31-1604 (NO RIGHT TURN)
(E) INSTALL SIGN 31-0553 (STOP)
(F) INSTALL 31-0295 (ONLY)
(G) INSTALL 31-0847 (RIGHT TURN ON RED FROM RIGHT LANE ONLY)
(H) INSTALL 31-1121 (DO NOT ENTER)
(I) INSTALL 31-1178 (ONE WAY →)
(J) INSTALL 31-1189 (← ONE WAY)
(K) INSTALL 31-0219 ( )
(L) INSTALL 31-0370 (ONLY)
(M) INSTALL 31-0353 (ONLY)

NOTES:

SEE PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL INFORMATION

(T) BAR TYPE CROSSWALK (16" x 16" x 8.0') CITY MAINTAINED

(S) BAR TYPE CROSSWALK (16" x 16" x 8.0') STATE MAINTAINED

THE STATE TO MAINTAIN ALL SIGNING AND PAVEMENT MARKINGS ON ROUTE 37 AND I-84 WB OFF RAMP, ALL STOP BARS AND ALL STOP SIGNS.

CITY OF DANBURY TO MAINTAIN ALL SIGNING AND ALL OTHER PAVEMENT MARKINGS ON WALNUT STREET AND PADANARAM AVENUE.

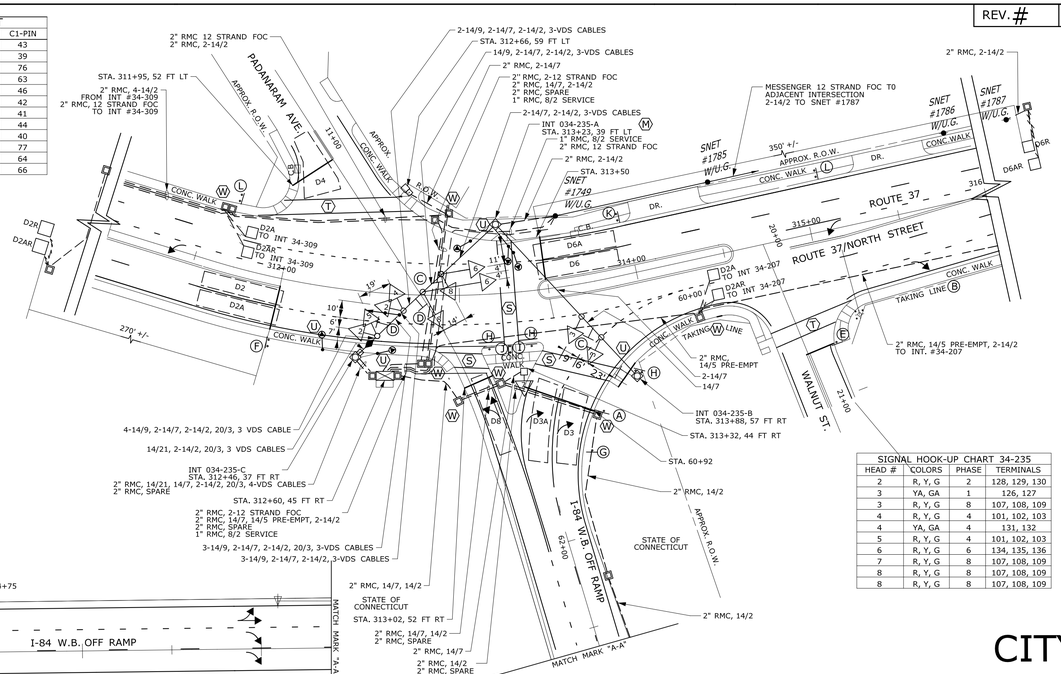
CITY TO MAINTAIN RAMP PRE-EMPTION.

SPAN POLE INFORMATION

HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs., INSTALLED: 20XX
VIDEO CAMERA LENGTH: 2 @ 16' EACH

DETECTOR CHART

IDENT	SLOT	PHASE	FUNCTION	C1-PIN
D2	12L	2	CE	43
D2A	12U	2	CE	39
D2R	13L	2	CES	76
D2AR	13U	2	CES	63
D3	J6L	8	CE	46
D3A	J6U	8	CE	42
D4	J6U	4	CE	41
D6	J2L	6	CE	44
D6A	J2U	6	CE	40
D6R	J3L	6	CES	77
D6AR	J3U	6	CES	64
D8	J7U	8	CE	66



SIGNAL HOOK-UP CHART 34-235			
HEAD #	COLORS	PHASE	TERMINALS
2	R, Y, G	2	128, 129, 130
3	YA, GA	1	126, 127
3	R, Y, G	8	107, 108, 109
4	R, Y, G	4	101, 102, 103
4	YA, GA	4	131, 132
5	R, Y, G	4	101, 102, 103
6	R, Y, G	6	134, 135, 136
7	R, Y, G	8	107, 108, 109
8	R, Y, G	8	107, 108, 109
8	R, Y, G	8	107, 108, 109

CITY SIGNAL

LEGEND:
PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
AUDIBLE PEDESTRIAN SIGNAL
LOOP DETECTOR
MAGNETIC DETECTOR
SD SYSTEM DETECTOR
OPTICAL DETECTOR
PROPOSED CONTROLLER
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
PROPOSED R.M.C. (RIGID METAL CONDUIT)
EXISTING R.M.C. (RIGID METAL CONDUIT)
CABLE CLOSURE
DET. LEADS IN SAW CUT
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
SIDEWALK RAMP
SONIC DETECTOR
VIDEO DETECTOR
VIDEO DETECTION ZONE

TRAFFIC CONTROL SIGNAL LAYOUT
CADD FILE NAME: TR 034 313 235 TCS.dgn
PROJECT / 034-313
DATE PLOTTED: 3/25/2014
SCALE - 1" = 40'

CITY OF DANBURY
ROUTE 37 (NORTH ST.) AT I-84
W.B. OFF RAMP AND PADANARAM AVE.

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
PROJECT TITLE: I-84 INTERCHANGES 5 & 6 IMPROVEMENTS
SEAL

TOWN: DANBURY
PROJECT NO.: 34 313
DRAWING TITLE:
DRAWING NO.: TCS-002
SHEET NO.: 06.17

REV. # | INTERSECTION # 034-235

	PRE-EMPT 4	PRE-EMPT 1		PRE-EMPT 2	MOVEMENT DIAGRAM			
		RAMP PRE-EMPT 3						

NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE # 1	Y	◄G	◄Y G	G	R	R	R				R	R	R				G	Y	R						
2	Y	R	R	R	G	Y	R				R	R	R				R	R	R						
3	Y	R	R	R	G	Y	R				R►	R Y►	R				R	R	R						
4	R	R	R	R	R	R	R				G	Y	R				R	R	R						
6	Y	G	Y	R	R	R	R				R	R	R				G	Y	R						
7	R	R►	R Y►	R	R	R	R				G	Y	R				R	R	R						
P2		◄ DW ►			◄ WØ	◄ DW ►					◄ DW ►						◄ DW ►								
P4		◄ DW ►			DW ►						◄ WØ	◄ DW ►					◄ DW ►								
					◄ YIELD												◄ YIELD								
MIN		5	3	0.1	15	3	1				5	2	1				15	3	1						
MAX		35	5	3	65	5	3				40	5	3				65	5	3						

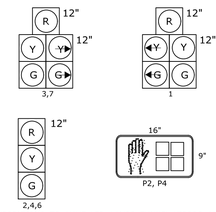
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		7		15		
WALK		7		7				
PED CLR		11 ①		14 ①				
VEH EXT	2	3		3		3		
MAX 1	19	18		39		18		
MAX 2	16	32		27		32		
YELLOW	5	5		4		5		
RED	0.1	1		1		1		
ADD INIT		COUNTDOWN PEDESTRIAN SIGNAL		COUNTDOWN PEDESTRIAN SIGNAL				
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN RECALL	OFF	NON-LOCK	OFF	MIN RECALL	OFF	OFF
INT START		THIS PHASE				THIS PHASE		

ENERGY BY- CITY | METER # - | INTERSECTION # 034-207

MAINT LEVEL N/A | SERVICE POLE- CL&P 5594

UNMETERED SERVICE

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS, TUNNEL VISORS AND BACKPLATES WITH YELLOW RETROREFLECTIVE BORDERS.
PEDESTRIAN SIGNAL HEAD TO HAVE COUNTDOWN TIMER.

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	RAMP PRE-EMPT 3	PRE-EMPT 4
PRIORITY	NO	NO	NO	NO
DET. LOCK	YES	YES	YES	YES
DELAY	0	0	0	0
ALT. MIN. GRN	5	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT	PARENT
ALT. PED. CLR.	14	14	14	14
HOLD GREEN	15	15	35	15
HOLD YELLOW	5	4	5	5
HOLD RED	1	1	1	1
HOLD PHASE	2	4	2&6	1
EXIT PHASE	2&6	2&6	2&6	2&6
EXIT CALL	NONE	NONE	NONE	NONE

CITY SIGNAL

OFFICE RECORD

REVISION #

STC # SM #

SIGNAL REVISED:
SIGNAL REVISED INSTALLED ALL NEW EQUIPMENT
AND OWNERSHIP TRANSFERRED TO CITY UNDER PROJECT 34-313

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF DANBURY ROUTE 37
(NORTH ST./PADANARAM RD.)
AT HAYESTOWN AVENUE

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAFTER				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE				

VN ENGINEERS

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6' X 30'	VIDEO	PRESENCE
D2	6' X 20'	VIDEO	PRESENCE
D2A	6' X 20'	VIDEO	PRESENCE
D2B	6' X 20'	VIDEO	PRESENCE
D2R	6' X 6'	4	PRESENCE
D2AR	6' X 6'	4	PRESENCE
D4	8' X 40'	VIDEO	PRESENCE
D4A	8' X 40'	VIDEO	PRESENCE
D6	6' X 30'	VIDEO	PRESENCE
D6A	6' X 30'	VIDEO	PRESENCE
D6R	6' X 6'	4	PRESENCE
D6AR	6' X 6'	4	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	FUTURE	
MAX 1	1600-1800	DAILY
MAX 2	FUTURE	
FREE	FUTURE	

COORDINATION TYPE- CENTRALIZED ADAPTIVE CONTROL SYSTEM

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD Ø	SEC

SYSTEM LOC

MASTER	
CENTRAL CITY HALL	
34-227	
34-263	
34-309	
34-235	
34-207	
34-299	

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
TIMING SHOWN REFLECTS OFF-LINE TRAFFIC SIGNAL OPERATION ONLY. ACTUAL TIMING IS TO BE DETERMINED BY THE CENTRALIZED ADAPTIVE CONTROL SYSTEM.
PHASE SPLITS SHOWN REFLECT PRELIMINARY COORDINATION DATA
ACTUAL HOLD GREEN FOR EMV PRE-EMPTIONS IS TO BE DETERMINED BY EMERGENCY VEHICLE PRESENCE.
PRE-EMPTION IS TO BE INOPERATIVE DURING FLASHING OPERATION.
RAMP PRE-EMPTION 3 TO BE INITIATED BY INT. #034-235.
① COUNTDOWN ONLY DURING PEDESTRIAN CHANGE INTERVAL
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PEDESTRIAN CHANGE INTERVAL
PHASE 1 TO DRIVE FACE 1 ◄Y AND◄— ONLY
PHASE 6 TO DRIVE FACE 1 R Y G

LEGEND:
R RED | ◄R RED ARROW | WØ WALK/ PED. CLR
Y YELLOW | ◄Y YELLOW ARROW | D.W. DON'T WALK
G GREEN | ◄— GREEN ARROW | FL. FLASHING

CONSTRUCTION NOTES AND SPECIFICATIONS

ALL TRAFFIC EQUIPMENT SHALL BE NEW.

CONTRACTOR SHALL STAKE ALL R.O.W. PRIOR TO EXCAVATION.

CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO EXCAVATION.

CONTRACTOR IS TO CONTACT ALL PUBLIC AND PRIVATE UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION TO INFORM AND RESOLVE ALL RELATIVE ISSUES.

ALL EQUIPMENT INCLUDING SIGNAL HEADS, SPAN POLES, AND CABINET SHALL BE DARK GREEN, NO. 14056, FEDERAL STANDARD NO. 595.

ALL INTERSECTIONS ARE TO BE HARDWARE INTERCONNECTED UTILIZING CORNING TWELVE (12) STRANDS SINGLE MODE, ALTOS GEL-FREE, FIBER OPTIC CABLE.

ALL PUSH BUTTONS ARE TO BE ADA PRESURE SENSITVE.

ALL PEDESTRIANS DISPLAYS ARE TO HAVE COUNTDOWN INDICATIONS.

ALL HANDHOLES LOCATED WITHIN SIDEWALKS TO HAVE CAST IRON COVERS.

SPAN POLES (J) AND (M) REQUIRE 2 SPAN CLAMPS EACH.

ALL COPPER AND OPTICAL CABLES ARE TO BE CONTINOUS WITHOUT SPLICES UNLESS NOTED OTHERWISE.

(U) INSTALL CAMERA VIDEO DETECTOR ON 16' CAMERA ARM.

SIGNAL APPURTENANCES (MAST ARMS, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE FIELD LOCATED TO PROVIDE A FREE PATH OF NOT LESS THAN 4.0 FEET. ANY PROPOSED REVISIONS TO THE LOCATIONS OF THE APPURTENANCES SHOWN ON THE PLANS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING AND THE CITY OF DANBURY.

THE EXISTING EMERGENCY VEHICLE PRE-EMPTION SYSTEM EQUIPMENT IS TO BE RELOCATED AS INDICATED ON THE PLANS.

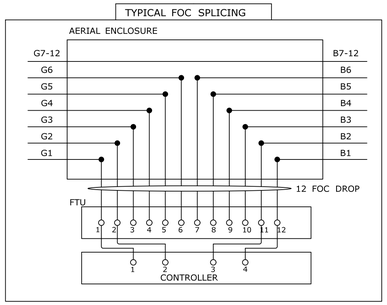
ALL INDUCTIVE LOOP DETECTORS ARE TO BE PREFORMED WITH 4 TURNS TYPE.

ALL HANDHOLES ARE TO BE 30" X 30" UNLESS OTHERWISE NOTED.

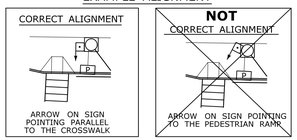
(V) THE WIRELESS RADIO EQUIPMENT AND ITS ASSOCIATED ACCESSORIES SHALL BE REMOVED AND RETURNED TO THE CTDOT SIGNAL LABORATORY.

INSTALL SIGN NO. 31-0845 AT PEDESTRIAN PUSH BUTTON LOCATIONS.

TYPICAL FOC SPLICING

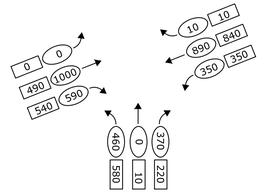


PEDESTRIAN PUSHBUTTON EXAMPLE ALIGNMENT



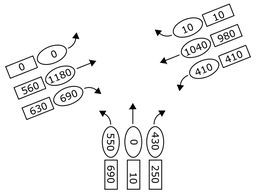
SIGNAL HOOK-UP CHART 34-207

HEAD #	COLORS	PHASE	TERMINALS	MODEL 200 SSL
1	YA, GA	1	126, 127	S1
1	R, Y, G	6	134, 135, 136	S6
2	R, Y, G	6	134, 135, 136	S6
3-4	R, Y, G	2	128, 129, 130	S2
5-6	R, Y, G	4	101, 102, 103	S4
7	R, Y, G	8	107, 108, 109	S8
8	RA, Y, G	6	134, 135, 136	S6



TRAFFIC VOLUME DIAGRAM
TRAFFIC YEAR 2008

0000 AM PEAK
0000 PM PEAK



TRAFFIC VOLUME DIAGRAM
TRAFFIC YEAR 2025

0000 AM PEAK
0000 PM PEAK

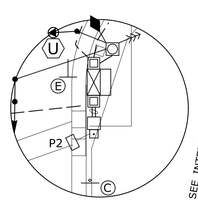
CITY SIGNAL

REV. # | INTERSECTION # 034-207

LEGEND:
(A) INSTALL 31-0370( ) ONLY
(B) INSTALL 31-0371 ( ) ONLY
(C) INSTALL 31-0290Z ( ) ONLY ONLY
(D) INSTALL SIGN 31-0553 (STOP)
INSTALL 31-1619 (NO LEFT TURN SYMB.)
(E) INSTALL SPAN MTD. 31-0817 (NTOR)
(F) INSTALL SPAN MTD. 31-0135 ( ) ONLY
(G) INSTALL SPAN MTD. 31-1622 (NO U TURN)
(H) INSTALL 31-1619 (NO LEFT TURN SYMB.)
INSTALL 31-1620 (NO LEFT TURN)

DETECTOR CHART

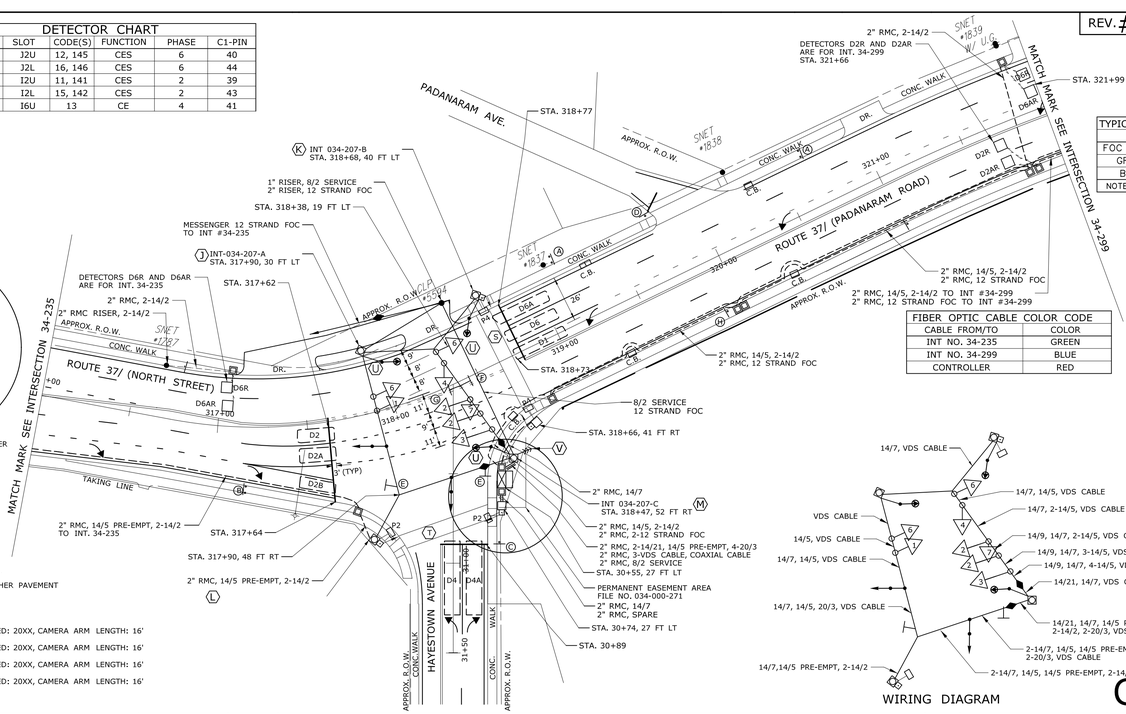
IDENT	SLOT	CODE(S)	FUNCTION	PHASE	C1-PIN
D6	J2U	12, 145	CES	6	40
D6A	J2L	16, 146	CES	6	44
D2	I2U	11, 141	CES	2	39
D2A	I2L	15, 142	CES	2	43
D4	I6U	13	CE	4	41



BLOW UP OF NORTH EAST CORNER
N.T.S.

NOTES:
SEE PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL INFORMATION
(S) BAR TYPE CROSSWALK (16" x 16" x 8.0') STATE MAINTAINED
(T) BAR TYPE CROSSWALK (16" x 16" x 8.0') CITY MAINTAINED
THE STATE TO MAINTAIN ALL SIGNING AND PAVEMENT MARKINGS ON ROUTE 37, ALL STOP BARS AND ALL STOP SIGNS.
THE CITY OF DANBURY TO MAINTAIN ALL SIGNING AND ALL OTHER PAVEMENT MARKINGS ON PADANARAM AVE. AND HAYESTOWN AVE.

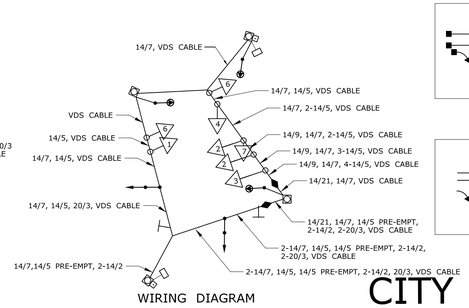
SPAN POLE INFORMATION
(J) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs., YEAR INSTALLED: 20XX, CAMERA ARM LENGTH: 16'
(K) HEIGHT 31', B.C. 20", LOAD AT YIELD 7800 lbs., YEAR INSTALLED: 20XX, CAMERA ARM LENGTH: 16'
(L) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs., YEAR INSTALLED: 20XX, CAMERA ARM LENGTH: 16'
(M) HEIGHT 31', B.C. 20", LOAD AT YIELD 7800 lbs., YEAR INSTALLED: 20XX, CAMERA ARM LENGTH: 16'



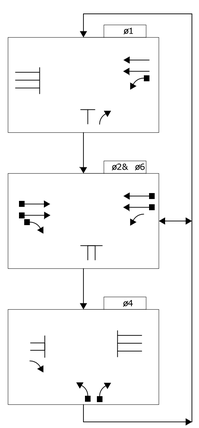
FIBER OPTIC CABLE COLOR CODE	
CABLE FROM/TO	COLOR
INT NO. 34-235	GREEN
INT NO. 34-299	BLUE
CONTROLLER	RED

TYPICAL FIBER OPTIC CABLE SPLICE CHART			
FROM/TO		FROM/TO	
FOC COLOR	FOC STRAND	FOC COLOR	FOC STRAND
GREEN	1-6	RED	1-6
BLUE	1-6	RED	7-12

NOTE: GREEN/BLUE 7-12 TO PASS THRU WITHOUT SPLICING



WIRING DIAGRAM



CITY SIGNAL

LEGEND:
PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTAL MOUNTING
PEDESTRIAN PUSH BUTTON & SIGN
TRAFFIC SIGNAL FACE
PEDESTRIAN SIGNAL FACE
AUDIBLE PEDESTRIAN SIGNAL
LOOP DETECTOR
MAGNETIC DETECTOR
SD SYSTEM DETECTOR
OPTICAL DETECTOR
PROPOSED CONTROLLER
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
PROPOSED R.M.C. (RIGID METAL CONDUIT)
EXISTING R.M.C. (RIGID METAL CONDUIT)
CABLE CLOSURE
DET. LEADS IN SAW CUT
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
SIDEWALK RAMP
SONIC DETECTOR
VIDEO DETECTOR
TRANSMITTING ANTENNA

TRAFFIC CONTROL SIGNAL LAYOUT
CADD FILE NAME:TR 034-313 207 TCS.dgn
PROJECT 034-313
DATE PLOTTED: 3/25/2014
SCALE - 1" = 40'

CITY OF DANBURY ROUTE 37
(NORTH ST./PADANARAM RD.)
AT HAYESTOWN AVENUE

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
PROJECT TITLE: I-84 INTERCHANGES 5 & 6
IMPROVEMENTS

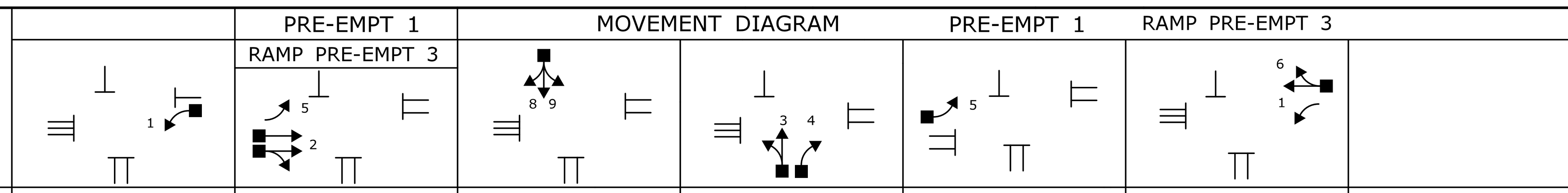
SEAL

TOWN: DANBURY
DRAWING TITLE:
PROJECT NO.: 34 313
DRAWING NO.: TCS-003
SHEET NO.: 06.18

REV. # | INTERSECTION # 034-207

ENERGY BY-	DEVELOPER	METER # -		INTERSECTION # 034-299
MAINT LEVEL	N/A	SERVICE POLE-	SNET 1843	OFFICE RECORD

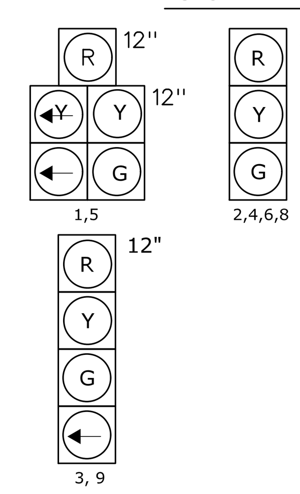
MOVEMENT DIAGRAM



NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	←R	←Y R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R						
2	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R						
3	R	R	R	R	R	R	R	R	R	R	←G	Y	R	R	R	R	R	R	R						
4	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R						
5	Y	R	R	R	G	Y	R	R	R	R	R	R	R	←R	←Y R	R	R	R	R						
6	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R						
8	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R						
9	R	R	R	R	R	R	R	←G	Y	R	R	R	R	R	R	R	R	R	R						
						←YIELD												←YIELD							
MIN		5	3	0.1	15	3	1	5	3	1	5	3	1	5	3	0.1	15	3	1						
MAX		25	5	3	65	5	3	30	5	3	30	5	3	25	5	3	65	5	3						

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15	5	5	5	15		
WALK			16	16				
PED CLR			1	1				
VEH EXT	2		2	2	2			
MAX 1	5	52	18	18	5	52		
MAX 2	5	51	19	19	5	51		
YELLOW	4.4	5.0	3	3	4.4	5		
RED	0.1	2	1	1	0.1	2		
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN-RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MIN. RECALL	OFF	OFF
INT START		THIS PHASE				THIS PHASE		

SIGNAL FACES



ALL INDICATIONS HAVE LED LAMPS, TUNNEL VISORS AND BACK PLATES WITH YELLOW RETROREFLECTIVE BORDERS.

PRE-EMPTION SETTINGS

	PRE-EMPT 1	RAMP PRE-EMPT 3
PRIORITY	NO	NO
DET. LOCK	YES	YES
DELAY	0	0
ALT. MIN. GRN	5	5
ALT. YELLOW	PARENT	PARENT
ALT. RED	PARENT	PARENT
ALT. PED. CLR.	0	0
HOLD GREEN	15	50
HOLD YELLOW	5	5
HOLD RED	2	2
HOLD PHASE	2&5	2&6
EXIT PHASE	2&6	4
EXIT CALL	NONE	NONE

CITY SIGNAL

REVISION #

STC # SM #

SIGNAL REVISED:
SIGNAL PLAN REVISED AND OWNERSHIP TRANSFERRED TO CITY UNDER PROJECT #34-313.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUR. OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF DANBURY ROUTE 37
(PADANARAM ROAD) AT NORTH STREET
SHOPPING CENTER - NORTH DRIVE

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAFTER				
CHECKED BY				
SUBMITTED BY	VN ENGINEERS			
APPROVED BY				
DATE				

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6' X 40'	VIDEO	PRESENCE
D2	6' X 40'	VIDEO	PRESENCE
D2A	6' X 40'	VIDEO	PRESENCE
D2R	6' X 6'	4	PRESENCE
D2AR	6' X 6'	4	PRESENCE
D3	6' X 20'	VIDEO	DELAY 8"
D4	6' X 40'	VIDEO	PRESENCE
D4A	6' X 40'	VIDEO	DELAY 8"
D5	6' X 30'	VIDEO	PRESENCE
D6	6' X 40'	VIDEO	PRESENCE
D6R	6' X 6'	4	PRESENCE

PROGRAM

FUNCTION	T I M E	DAYS
FLASH	2300 - 0600	DAILY
MAX 1	1600 - 1800	DAILY
MAX 2	FUTURE	
FREE	FUTURE	

COORDINATION TYPE- CENTRALIZED ADAPTIVE CONTROL SYSTEM

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD Ø	SEC	SYSTEM LOC
													MASTER CENTRAL CITY HALL
													34-227
													34-263
													34-309
													34-235
													34-207
													34-299

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
TIMING SHOWN REFLECTS OFF-LINE TRAFFIC SIGNAL OPERATION ONLY. ACTUAL TIMING IS TO BE DETERMINED BY THE CENTRALIZED ADAPTIVE CONTROL SYSTEM.
ACTUAL HOLD GREEN FOR EMV PRE-EMPTIONS IS TO BE DETERMINED BY EMERGENCY VEHICLE PRESENCE.
PRE-EMPTION IS TO BE INOPERATIVE DURING FLASHING OPERATION.
PHASE 1 TO DRIVE FACE 1 ←Y AND ← ONLY
PHASE 6 TO DRIVE FACE 1 R Y G
PHASE 5 TO DRIVE FACE 5 ←Y AND ← ONLY
PHASE 2 TO DRIVE FACE 5 R Y G

LEGEND:
R RED — ←R RED ARROW — WØ WALK/ PED. CLR
Y YELLOW — ←Y YELLOW ARROW — D.W. DON'T WALK
G GREEN — ← GREEN ARROW — FL. FLASHING

REV. # — INTERSECTION # 034-299

LEGEND:
Ⓐ INSTALL 31-0307 (↰ONLY ↑ ↱)
Ⓑ INSTALL 31-0290Z (↰ONLY ↱ONLY)
Ⓒ INSTALL 31-0282 (↰ONLY ↱)
Ⓓ INSTALL SPAN MTD. 31-0135 (↰ ONLY)
Ⓔ INSTALL 31-0553 (STOP)
Ⓕ INSTALL 31-1619 (NO LEFT TURN SYMBOL)
Ⓖ INSTALL 31-0370 (↰ONLY ↑ ↑)

DETECTOR ASSIGNMENT CHART

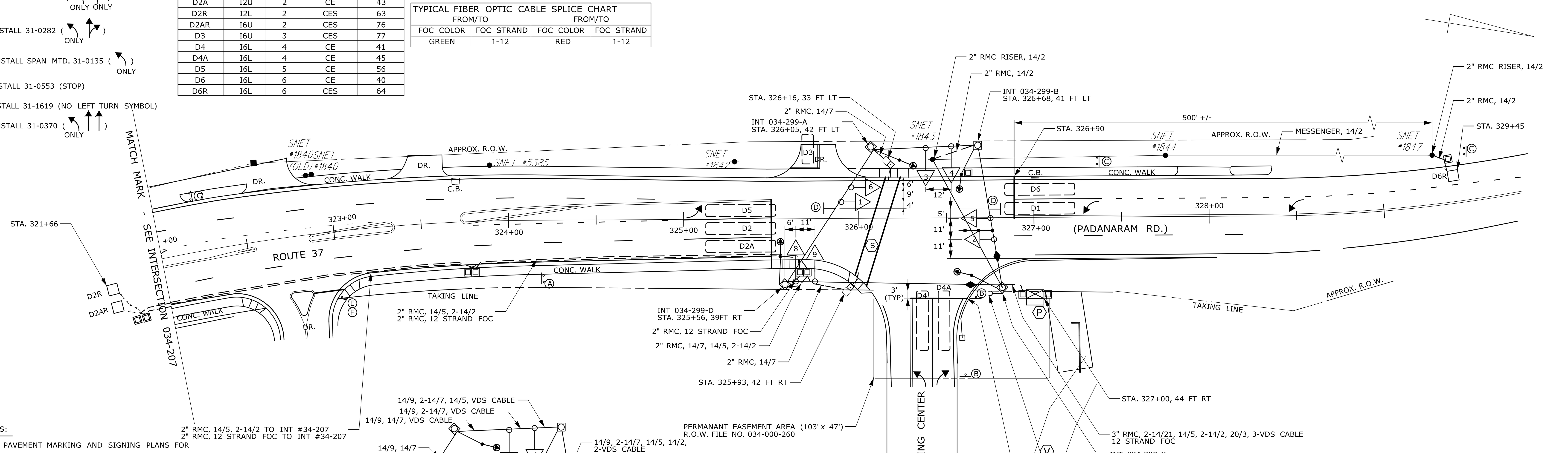
IDENT	SLOT	PHASE	FUNCTION	C1-PIN
D1	J2U	1	CE	55
D2	J2L	2	CE	39
D2A	I2U	2	CE	43
D2R	I2L	2	CES	63
D2AR	I6U	2	CES	76
D3	I6U	3	CES	77
D4	I6L	4	CE	41
D4A	I6L	4	CE	45
D5	I6L	5	CE	56
D6	I6L	6	CE	40
D6R	I6L	6	CES	64

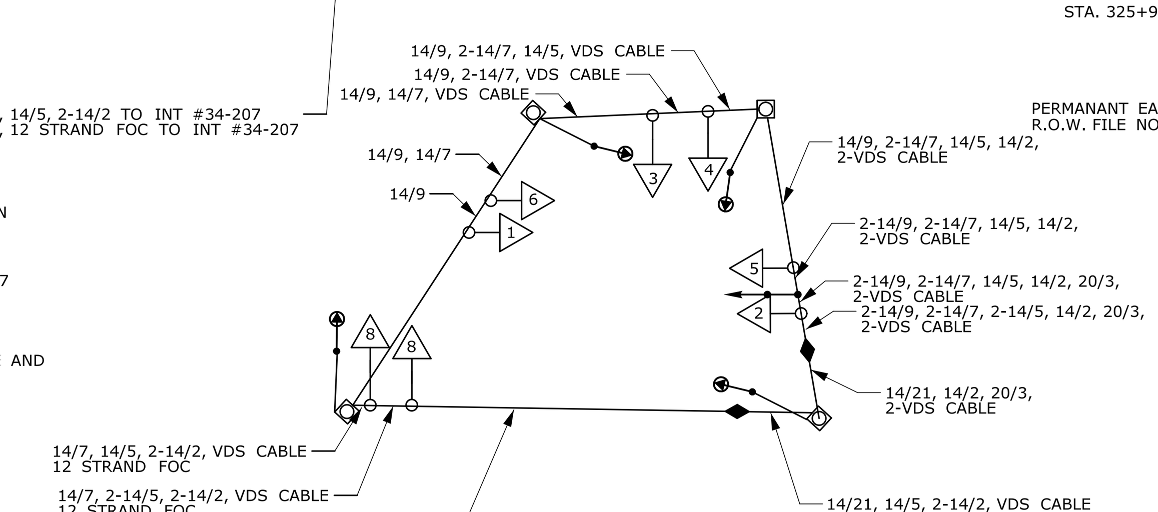
FIBER OPTIC CABLE COLOR CODE

CABLE FROM/TO	COLOR
INT NO. 34-207	GREEN
CONTROLLER	RED

TYPICAL FIBER OPTIC CABLE SPLICE CHART

FROM/TO FOC COLOR	FOC STRAND	FROM/TO FOC COLOR	FOC STRAND
GREEN	1-12	RED	1-12





WIRING DIAGRAM

NOTES:

SEE PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL INFORMATION

CITY OF DANBURY TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT

THE STATE TO MAINTAIN ALL STOP BARS ON ROUTE 37 (PADANARAM ROAD).

DEVELOPER TO MAINTAIN ALL SIGNING AND PAVEMENT MARKINGS ON NORTH STREET SHOPPING CENTER DRIVE AND BURGER KING DRIVEWAY.

THE STATE TO MAINTAIN ALL SIGNING AND PAVEMENT MARKINGS ON ROUTE 37 (PADANARAM ROAD).

SPAN POLE INFORMATION

HEIGHT 28', B.C. 20", LOAD AT YIELD 6100 lbs., YEAR INSTALLED: 20XX, CAMERA BRACKET LENGTH: 16'

CITY SIGNAL

LEGEND:
PROPOSED WOOD SPAN POLE; EXISTING WOOD SPAN POLE; PROPOSED STEEL SPAN POLE; EXISTING STEEL SPAN POLE; PROPOSED UTILITY POLE; EXISTING UTILITY POLE; PEDESTAL MOUNTING; PEDESTRIAN PUSH BUTTON & SIGN; TRAFFIC SIGNAL FACE; PEDESTRIAN SIGNAL FACE; AUDIBLE PEDESTRIAN SIGNAL; LOOP DETECTOR; MAGNETIC DETECTOR; SD SYSTEM DETECTOR; OPTICAL DETECTOR; PROPOSED CONTROLLER; EXISTING CONTROLLER; PROPOSED HANDHOLE; EXISTING HANDHOLE; PROPOSED R.M.C. (RIGID METAL CONDUIT); EXISTING R.M.C. (RIGID METAL CONDUIT); CABLE CLOSURE; DET. LEADS IN SAW CUT; AUXILIARY TERMINATION CABINET; AUXILIARY EQUIPMENT CABINET; SIDEWALK RAMP; SONIC DETECTOR; RECEIVING ANTENNA; VIDEO DETECTOR

TRAFFIC CONTROL SIGNAL LAYOUT
CADD FILE NAME: TR 034 313 299 TCS.dgn
PROJECT / 034-313
DATE PLOTTED: 3/25/2014
SCALE - 1" = 40'

CITY OF DANBURY ROUTE 37
(PADANARAM ROAD) AT NORTH STREET
SHOPPING CENTER - NORTH DRIVE

CONSTRUCTION NOTES AND SPECIFICATIONS

ALL TRAFFIC EQUIPMENT IS NEW EXCEPT AS NOTED.

CONTRACTOR SHALL STAKE ALL R.O.W. PRIOR TO EXCAVATION.

CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO EXCAVATION.

CONTRACTOR IS TO CONTACT ALL PUBLIC AND PRIVATE UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION TO INFORM AND RESOLVE ALL RELATIVE ISSUES.

ALL EQUIPMENT INCLUDING SIGNAL HEADS, SPAN POLES, AND CABINET SHALL BE DARK GREEN, NO. 14056, FEDERAL STANDARD NO. 595.

ALL INTERSECTIONS ARE TO BE HARDWARE INTERCONNECTED UTILIZING CORNING TWELVE (12) STRANDS SINGLE MODE, ALTOS GEL-FREE, FIBER OPTIC CABLE.

ALL PUSH BUTTONS ARE TO BE ADA PRESURE SENSITVE.

SPAN POLES Ⓜ AND Ⓚ REQUIRE 2 SPAN CLAMPS EACH.

RELOCATE EXISTING OPTICAL DETECTOR TO NEW SPAN AS SHOWN.

ALL COPPER AND OPTICAL CABLES ARE TO BE CONTINOUS WITHOUT SPLICES UNLESS OTHERWISE NOTED.

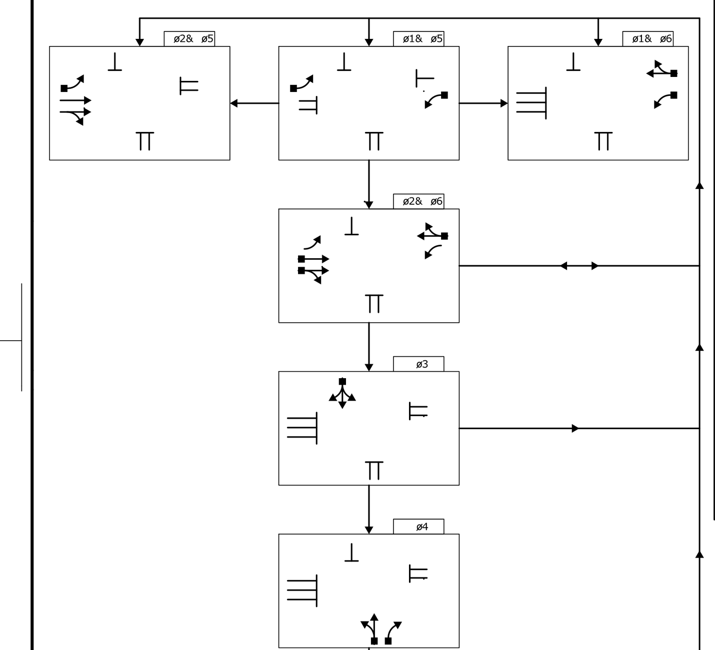
THE EXISTING EMERGENCY VEHICLE PRE-EMPTION SYSTEM EQUIPMENT IS TO BE RELOCATED AS SHOWN ON THE PLAN.

SIGNAL APPURTENANCES (SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE FIELD LOCATED TO PROVIDE A FREE PATH OF NOT LESS THAN 4.0 FEET. ANY PROPOSED REVISIONS TO THE LOCATIONS OF THE APPURTENCES SHOWN ON THE PLANS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING AND THE CITY OF DANBURY.

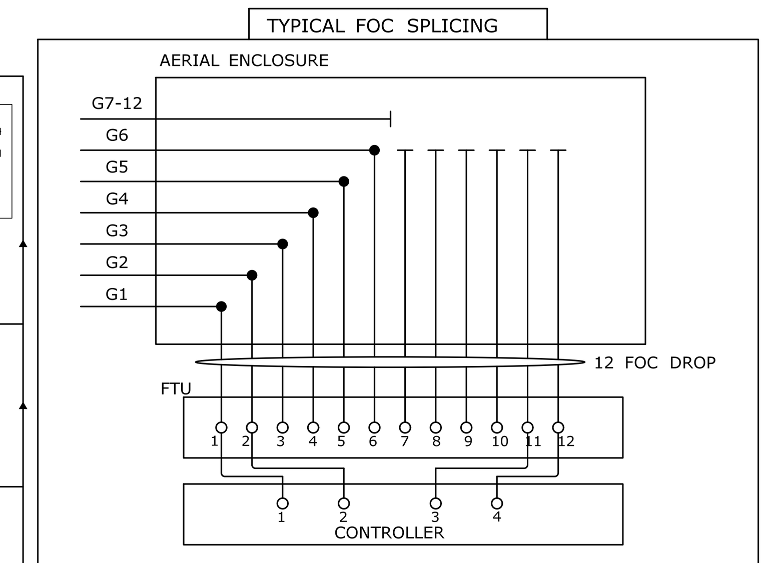
Ⓟ INSTALL NEW TRAFFIC SIGNAL CONTROLLER ON NEW FOUNDATION.

Ⓤ INSTALL CAMERA VIDEO DETECTOR ON 16' CAMERA ARM.

Ⓥ REMOVE WIRELESS RADIO EQUIPMENT AND ITS ASSOCIATED ACCESSORIES AND RETURN TO CTDOT SIGNAL LABORATORY.



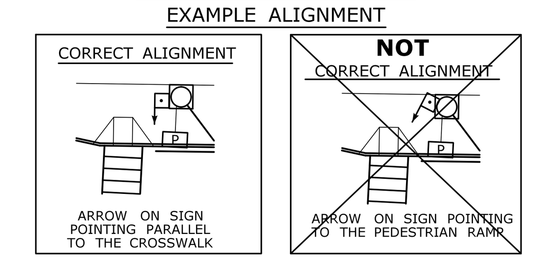
TYPICAL FOC SPLICING

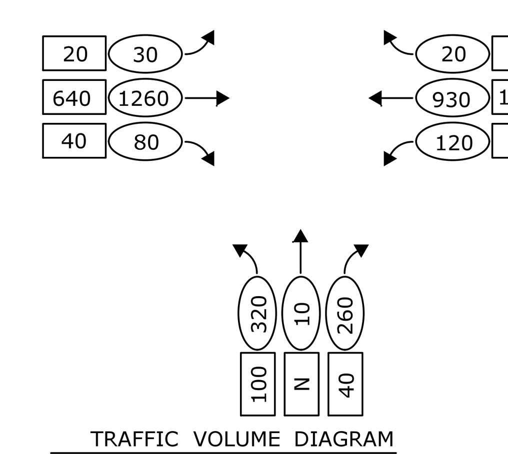


SIGNAL HOOK-UP CHART 34-299

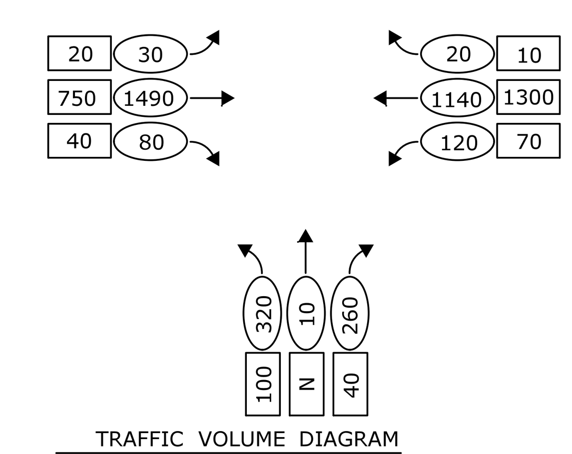
HEAD #	COLORS	PHASE	TERMINALS
1	YA, GA	1	126, 127
1	R, Y, G	6	134, 135, 136
2	R, Y, G	2	128, 129, 130
3	R, Y, G	4	101, 102, 103
4	R, Y, G	4	101, 102, 103
5	YA, GA	5	132, 133
5	R, Y, G	2	128, 129, 130
6	R, Y, G	6	134, 135, 136
8	R, Y, G	3	104,105,106

PEDESTRIAN PUSHBUTTON EXAMPLE ALIGNMENT





TRAFFIC VOLUME DIAGRAM
TRAFFIC YEAR 2008



TRAFFIC VOLUME DIAGRAM
TRAFFIC YEAR 2025

0000 AM PEAK
0000 PM PEAK

0000 AM PEAK
0000 PM PEAK

CITY SIGNAL

REV. # INTERSECTION # 34-299

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

SEAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
PROJECT TITLE: I-84 INTERCHANGES 5 & 6 IMPROVEMENTS

TOWN:
DRAWING TITLE:
PROJECT NO.: 34 313
DRAWING NO.: TCS-004
SHEET NO.: 06.19

NONE	PRE-EMPT 1	MOVEMENT DIAGRAM					PRE-EMPT 1		PRE-EMPT 2	
NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PHASE 9	

FACE #	FLASH	PHASE 1 GRN	PHASE 1 CL	PHASE 1 CL	PHASE 2 GRN	PHASE 2 CL	PHASE 2 CL	PHASE 3 GRN	PHASE 3 CL	PHASE 3 CL	PHASE 4 GRN	PHASE 4 CL	PHASE 4 CL	PHASE 5 GRN	PHASE 5 CL	PHASE 5 CL	PHASE 6 GRN	PHASE 6 CL	PHASE 6 CL	PHASE 7 GRN	PHASE 7 CL	PHASE 7 CL	PHASE 8 GRN	PHASE 8 CL	PHASE 8 CL	PHASE 9 GRN	PHASE 9 CL	PHASE 9 CL
1	Y	← R	↖Y R	R	R	R	R				R	R	R	R	R	R	G	Y	R				R	R	R			
2	Y	R	R	R	G	Y	R				R	R	R	R	R	R	R	R	R				R	R	R			
3	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R				R	R	R			
4	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R				R	R	R			
5	Y	R	R	R	G	Y	R				R	R	R	← R	↖Y R	R	R	R	R				R	R	R			
6	Y	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R				R	R	R			
7	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R				G	Y	R			
8	R	R	R	R	R	R	R				G	Y	R	R →	R →Y	R	R	R	R				G	Y	R			
9	Y	R	R	R	G	Y	R				R	R	R	← R	↖Y R	R	R	R	R				R	R	R			
P4	OFF	←			DW		→				WØ	←				DW			→				←	DW	→			
P6	OFF	←			DW		→				←	DW				→	WØ	← DW	→				←	DW	→			
					←													←										
MIN		3	3	0.1	10	3	1				5	3	1	3	3	0.1	10	2	1				5	3	1			
MAX		30	5	2	65	5	3				50	5	3	30	5	2	65	5	3				50	5	3			

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PHASE 9
MIN GRN	5	15		9	5	15		15	
WALK				7		7			
PED CLR				19		19			
VEH EXT	1	2.5		1.5	1	2.5		1.5	
MAX 1	5	35		20	10	35		20	
MAX 2	10	45		25	15	45		25	
YELLOW	3.0	3.6		3.0	3.0	3.6		3.0	
RED	0.1	1.5		1.0	0.1	1.0		1.0	
ADD INIT									
MAX INIT									
TBR									
TTR									
MIN GAP									
MODE	NON-LOCK	MIN RECALL	OFF	NON-LOCK	NON-LOCK	MIN RECALL	OFF	ON/OMIT	OFF
INT START		THIS PHASE				THIS PHASE			

DETECTORS			
IDENT	SIZE (WXL)	TURNS	MODE
D1	6' X 30'	VIDEO	PRESENCE
D2	6' X 22'	VIDEO	PRESENCE
D2R	6' X 6'	4	PRESENCE
D4	6' X 6'	3	DELAY 8"
D4A	6' X 6'	3	PRESENCE
D5	6' X 30'	VIDEO	PRESENCE
D6	6' X 20'	VIDEO	PRESENCE
D6R	6' X 6'	4	PRESENCE
D7	6' X 6'	3	DELAY 8"
D7A	6' X 6'	3	PRESENCE

PROGRAM		
FUNCTION	T I M E	DAYS
FLASH	2300-0600	DAILY
MAX 1	1600-1800	DAILY
MAX 2	FUTURE	
FREE	FUTURE	

COORDINATION TYPE: CENTALIZED ADAPTIVE CONTROL SYSTEM

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8

PERMIS PERIOD	SEC
Ø	

SYSTEM LOC
CENTRAL
CITY HALL
34-227
34-263
34-309
34-235
34-207
34-299

TECHNICAL NOTES

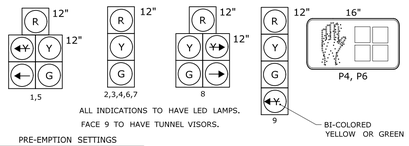
STANDARD OVERLAP SKIP FEATURES APPLY
PHASES 1 AND 5 TO DRIVE FACES 1, 5 AND 9 ↖Y AND ← ONLY.
PHASES 2 AND 6 TO DRIVE FACES 1, 5 AND 9 R,Y,G INDICATIONS.
PHASE 2 ON TO OMIT PHASE 5.
PHASE 6 ON TO OMIT PHASE 1.
TIMING SHOWN REFLECTS OFF-LINE TRAFFIC SIGNAL OPERATION ONLY. ACTUAL
TIMING IS TO BE DETERMINED BY THE CENTRALIZED ADAPTIVE CONTROL SYSTEM.
ACTUAL HOLD GREEN FOR EMV PRE-EMPTION IS TO BE DETERMINED BY EMERGENCY
VEHICLE PRESENCE.
PRE-EMPTION IS TO BE INOPERATIVE DURING FLASHING OPERATION.

LEGEND:
R RED | ◄R RED ARROW | WØ WALK/ PED. CLR
Y YELLOW | ◄Y YELLOW ARROW | D.W. DON'T WALK
G GREEN | ◄ GREEN ARROW | FL. FLASHING

ENERGY BY CITY	METER # N/A	
MAINT LEVEL N/A	SP- CL&P 2376	INTERSECTION # 034-227
UNMETERED SERVICE		

OFFICE RECORD
REVISION #
STC # SM #
SIGNAL REVISED:
INSTALL INTERCONNECT CABLE, NEW CABINET, AND NEW CONTROLLER.
TRANSFERRED OWNERSHIP TO CITY. ADDED EMERGENCY VEHICLE PRE-EMPTION
UNDER PROJECT 34-313.

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS.
FACE 9 TO HAVE TUNNEL VISORS.

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2
PRIORITY	NO	NO
DET. LOCK	YES	YES
DELAY	0	0
ALT. MIN. GRN	5	5
ALT. YELLOW	PARENT	PARENT
ALT. RED	PARENT	PARENT
ALT. PED. CLR.	19	19
HOLD GREEN	15	15
HOLD YELLOW	3.6	3
HOLD RED	1.0	1.0
HOLD PHASE	1&6	8
EXIT PHASE	2&6	1&5
EXIT CALL	NONE	NONE

CITY SIGNAL

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & HWY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF DANBURY
ROUTE 37 (NORTH STREET) AT
BALMFORTH AVENUE AND
SHOPPING CENTER DRIVE

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE				

VHB ENGINEERS

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED.

(M) INSTALL INTERCONNECT CABLE AS SHOWN.

(N) MODIFY EXISTING COMTROLLER FOUNDATION, INSTALL ADAPTER, 332D CABINET AMD 2070E CONTROLLER.

(O) INSTALL VDS CABLE.

(P) INSTALL AERIAL FOC ENCLOSURE.

(Q) INSTALL 2"RMC.

(R) INSTALL 14/2.

(K) INSTALL 2-14/2.

(L) INSTALL MESSENGER, 14/2.

(U) INSTALL 2"RMC RISER.

(V) INSTALL 2-VDS CABLE.

(W) INSTALL TYPE II HANDHOLE.

(X) INSTALL LOOP DETECTOR.

(Y) INSTALL 2-VIDEO DETECTION CAMERA ON 20' PEDESTAL.

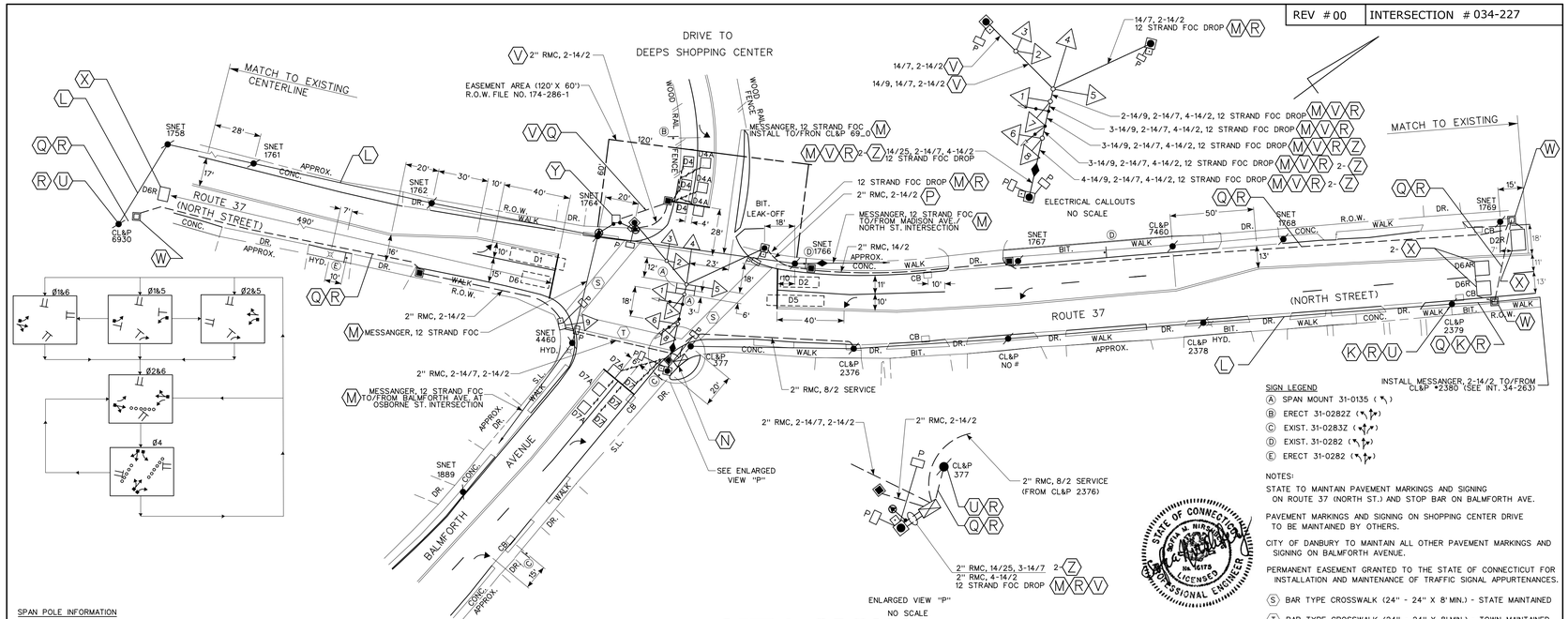
(Z) INSTALL 20/3 OPTICAL DETECTOR CABLE.

ALL COPPER AND OPTICAL CABLES ARE TO BE CONTINUOUS WITHOUT SPLICESUNLESS OTHERWISE NOTED.

CABINET AND ADAPTER SHALL BE DARK GREEN, NO. 14056, FEDERAL STANDARD NO. 595.
ALL PUSH BUTTONS ARE TO BE ADA PRESSURE SENSITIVE

ALL PEDESTRIAN DISPLAYS ARE TO HAVE COUNTDOWN INDICATIONS.

REV # 00 | INTERSECTION # 034-227



SIGN LEGEND
(A) SPAN MOUNT 31-0135 ( )
(B) ERECT 31-0282Z ( )
(C) EXIST. 31-0283Z ( )
(D) EXIST. 31-0282 ( )
(E) ERECT 31-0282 ( )

NOTES:
STATE TO MAINTAIN PAVEMENT MARKINGS AND SIGNING ON ROUTE 37 (NORTH ST.) AND STOP BAR ON BALMFORTH AVE.
PAVEMENT MARKINGS AND SIGNING ON SHOPPING CENTER DRIVE TO BE MAINTAINED BY OTHERS.
CITY OF DANBURY TO MAINTAIN ALL OTHER PAVEMENT MARKINGS AND SIGNING ON BALMFORTH AVENUE.
PERMANENT EASEMENT GRANTED TO THE STATE OF CONNECTICUT FOR INSTALLATION AND MAINTENANCE OF TRAFFIC SIGNAL APPURTENANCES.
(S) BAR TYPE CROSSWALK (24" - 24" X 8' MIN.) - STATE MAINTAINED
(T) BAR TYPE CROSSWALK (24" - 24" X 8' MIN.) - TOWN MAINTAINED

SCALE 1" = 40'

SPAN POLE INFORMATION
HEIGHT 28', B.C. 20", LOAD AT YIELD 6100 lbs.

I:\Projects\24-117\Traffic_Signals\TR_tcs_034_227_010.dgn | DATE PLOTTED 3/25/2014

PROPOSED WOOD SPAN POLE
EXISTING WOOD SPAN POLE
PROPOSED STEEL SPAN POLE
EXISTING STEEL SPAN POLE
PROPOSED UTILITY POLE
EXISTING UTILITY POLE
PEDESTRIAN SIGNAL FACE
AUDIBLE PEDESTRIAN SIGNAL
PROPOSED CONTROLLER
TRAFFIC SIGNAL FACE
PEDESTRIAN PUSH BUTTON & SIGN
PEDESTAL MOUNTING
PROPOSED R.M.C. (RIGID METAL CONDUIT)
EXISTING R.M.C. (RIGID METAL CONDUIT)
DET. LEADS IN SAW CUT
AUXILIARY TERMINATION CABINET
AUXILIARY EQUIPMENT CABINET
VIDEO DETECTOR
OPTICAL DETECTOR
SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

CITY SIGNAL

DRAWN BY : KVP
DESIGNED BY : MWD

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF DANBURY
ROUTE 37 (NORTH STREET) AT
BALMFORTH AVENUE AND
SHOPPING CENTER DRIVE

SIGNAL HOOKUP CHART 34-227			
HEAD #	PHASE	COLORS	TERMINALS
1	1	YA,GA	126,127
1	6	R,Y,G	134,135,136
2	2	R,Y,G	128,129,130
3	4	R,Y,G	101,102,103
4	4	R,Y,G	101,102,103
5	5	YA,GA	132,133
5	2	R,Y,G	128,129,130
6	6	R,Y,G	134,135,136
7	4	R,Y,G	101,102,103
8	5	YA,GA	132,133
8	4	R,Y,G	101,102,103
9	5	YA,GA	132,133
9	2	R,Y,G	128,129,130
P4	4P	DW,W	104,106
P6	6P	DW,W	119,121

DETECTOR ASSIGNMENT CHART				
IDENT	SLOT	PHASE	FUNCTION	C1-PIN
D1	I1	1	CE	55
D2	I2U	2	CE	39
D2R	I3U	2	CES	43
D4	I7U	4	CE	65
D4A	I7L	4	CE	78
D5	J1	5	CE	56
D6	J2U	6	CE	40
D6R	J3U	6	CES	64
D7	I6U	4	CE	41
D7A	I6L	4	CE	45

FIBER OPTIC CABLE COLOR CODE	
CABLE TO/FROM	COLOR
CITY INT. NO.3012 OSBORNE ST @ BALMFORTH AVE	GREEN
INT. NO. 34-263	BLUE
CONTROLLER	RED

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

SIGNAL HOOKUP CHART 34-227			
FROM/TO		FROM/TO	
FOC COLOR	FOC STRAND	FOC COLOR	FOC STRAND
GREEN	1-6	RED	1-6
BLUE	1-6	RED	7-12

NOTE: GREEN/BLUE 7-12 TO PASS THROUGH WITHOUT SPLICING

OFFICE OF ENGINEERING

TOWN:
DANBURY
TOWN NAME 2

DRAWING TITLE:
TRAFFIC CONTROL SIGNAL
DRAWING TITLE 2

PROJECT NO. 34-313
DRAWING NO. TCS-005
SHEET NO. **06.20**

REV # | INTERSECTION # 034-227

NONE		PRE-EMPT 1	MOVEMENT DIAGRAM			PRE-EMPT 2		
NTOR	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8

FACE #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	◄G	◄Y G	G	R	R	R				R	R	R				G	Y	R				R	R	R
2	Y	R	R	R	G	Y	R				R	R	R				R	R	R				R	R	R
3	R	R	R	R	R	R	R				G	Y	R				R	R	R				R	R	R
4	R	R	R	R	R	R	R				G	Y	R				R	R	R				R	R	R
5	Y	R	R	R	G	Y	R				R	R	R				R	R	R				R	R	R
6	Y	G	G	G	R	R	R				R	R	R				G	Y	R				R	R	R
7	R	R	R	R	R	R	R				R	R	R				R	R	R				G	Y	R
8	R	R	R	R	R	R	R				R	R	R				R	R	R				G	Y	R
					◄ YIELD												◄ YIELD								
MIN		3	3	0.1	15	3	2				7	3	1				15	3	1				7	3	1
MAX		30	5	4	65	5	5				30	5	4				30	5	4				30	5	4

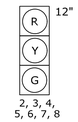
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		7		15		7
WALK				10				10
PED CLR				1				1
VEH EXT		4.5		1.5		4.5		1.5
MAX 1	5	40		15		40		15
MAX 2	10	50		15		50		15
YELLOW	3	3		3		3		3
RED	0.1	2		1		2		1
ADD INIT		1.5						
MAX INIT		20						
TBR								
TTR								
MIN GAP		4.5						
MODE	MAX RECALL	MIN RECALL	OFF	NON-LOCK	OFF	MIN RECALL	OFF	NON-LOCK
INT START		THIS PHASE				THIS PHASE		

ENERGY BY- CITY | METER # - | INTERSECTION# 034-263

MAINT LEVEL N/A | SERVICE POLE- CL&P 2383

UNMETERED SERVICE

SIGNAL FACES



ALL INDICATIONS HAVE LED LAMPS

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2
PRIORITY	NO	NO
DET. LOCK	YES	YES
DELAY	0	0
ALT. MIN. GRN	5	5
ALT. YELLOW	PARENT	PARENT
ALT. RED	PARENT	PARENT
ALT. PED. CLR.	0	0
HOLD GREEN	15	15
HOLD YELLOW	3.0	3.0
HOLD RED	2.0	2.0
HOLD PHASE	2	6
EXIT PHASE	2&6	2&6
EXIT CALL	NONE	NONE

OFFICE RECORD

REVISION #

JOB # N/A SM # N/A

SIGNAL REVISED:

ADDED INTERCONNECT CABLE AND NEW CONTROLLER

UNDER PROJECT 34-313

CITY SIGNAL

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION LICENSED PROFESSIONAL ENGINEER

TRAFFIC CONTROL SIGNAL

CITY OF DANBURY

ROUTE 37 (NORTH ST.) AT

MADISON AVE.

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER	VN ENGINEERS		VN ENGINEERS	
DRAFTER				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE				

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2	10' x 20'	VIDEO	PRESENCE
D2R	10' x 6'	4	PRESENCE
D3	6'x 6'	3	DELAY 8"
D4	6' x 6'	3	DELAY 8"
D4A	8' x 6'	3	DELAY 8"
D6	6' x 20'	VIDEO	PRESENCE
D6A	6' x 20'	VIDEO	PRESENCE
D6R	6' x 6'	4	PRESENCE
D6AR	6' x 6'	4	PRESENCE

PROGRAM

FUNCTION	T I M E	DAYS
FLASH	2300-0600	DAILY
MAX 1	1600-1800	DAILY
MAX 2	FUTURE	
FREE	FUTURE	

COORDINATION TYPE- CENTRALIZED ADAPTIVE CONTROL SYSTEM

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8	PERMIS PERIOD ø	SEC

SYSTEM LOC

MASTER CENTRAL CITY HALL

34-227

34-263

34-309

34-235

34-207

34-299

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

ø1 TO ALWAYS PRECEDE ø2

PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

ACTUL HOLD GREEN FOR EMV PRE-EMPTION IS TO BE DETERMINED BY EMERGENCY VEHICLE PRESENCE.

TIMING SHOWN REFLECTSOFF-LINE TRAFFIC SIGNAL OPERATION ONLY. ACTUAL TIMING IS TO BE DETERMINED BY THE CENTRALIZED ADAPTIVE CONTROL SYSTEM.

PHASE 6 TO DRIVE FACE 1 R Y G.

PHASE 1 TO DRIVE FACE 1 ◄Y AND ◄— ONLY.

LEGEND:

R RED | ◄R RED ARROW | WD WALK/ PED. CLR

Y YELLOW | ◄Y YELLOW ARROW | D.W. DON'T WALK

G GREEN | ◄— GREEN ARROW | FL. FLASHING

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING EXCEPT AS NOTED

SEPARATE NB & SB TRAFFIC SIGNAL HOOK-UPS IN THE AERAIL SPLICE ENCLOSURE AND CABINET TO MATCH WITH NEW SEQUENCE

(H) INSTALL 2070E CONTROLLER ON EXISTING 332 TRAFFIC CABINET

(I) INSTALL 12 STRAND FOC DROP CABLE

(J) INSTALL MESSENGER, 12 STRAND FOC TO INT #34-227

(L) INSTALL MESSENGER, 12 STRAND FOC

(P) INSTALL AERIAL FOC ENCLOSURE

(R) INSTALL 2" RMC, 2-14/2 TO INT #34-309

(S) INSTALL 14/2

(T) INSTALL MESSENGER, 2-14/2 TO INT #34-227

(U) INSTALL 2" RMC

(V) INSTALL VDS CABLE

(W) INSTALL 30"X30" HANDHOLE. ALL OTHERS ARE TYPE II

(X) INSTALL LOOP DETECTOR

(Z) INSTALL VIDEO DETECTION CAMERA ON NEW 20' PEDESTAL

ALL COPPER AND OPTICAL CABLES ARE TO BE CONTINOUS WITHOUT SPLICES UNLESS OTHERWISE NOTED.

REV.# | INTERSECTION# 034-263

STATE TO MAINTAIN ALL SIGNS PAVEMENT MARKINGS ON ROUTE 37 AND THE STOP BAR ON MADISON AVENUE.

CITY TO MAINTAIN ALL OTHER MARKINGS ON MADISON AVENUE STOP BAR AND PAVEMENT MARKINGS ON PRIVATE DRIVE TO BE MAINTAINED BY OTHERS.

(A) SIGN LEGEND:

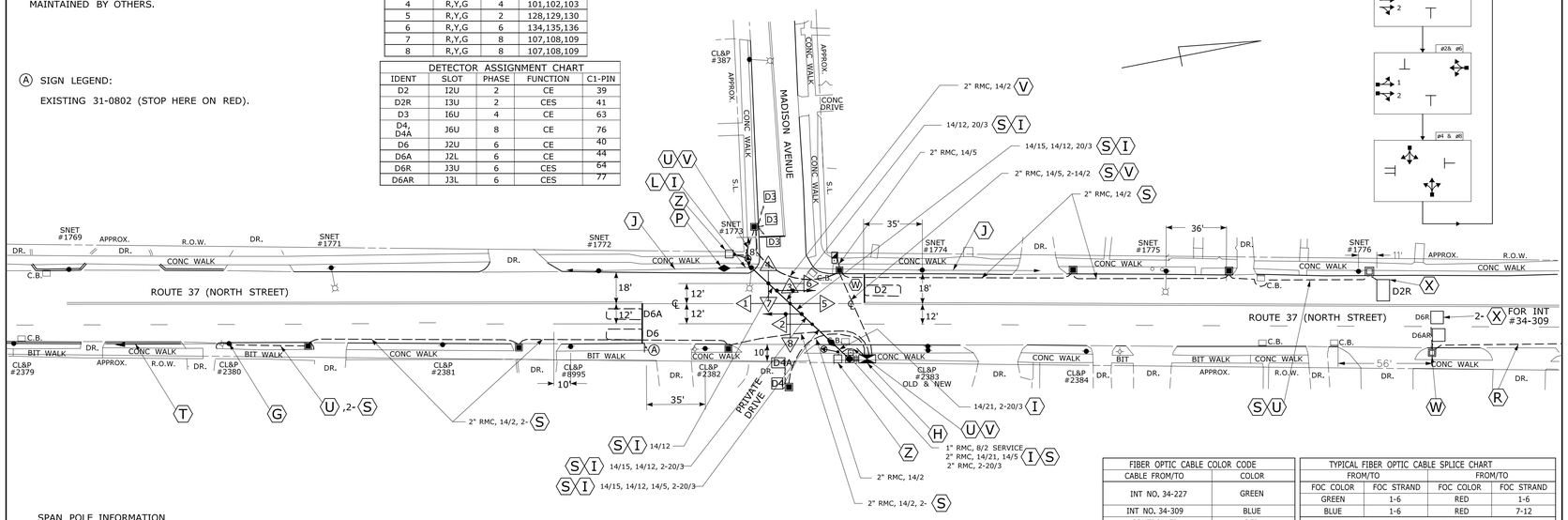
EXISTING 31-0802 (STOP HERE ON RED).

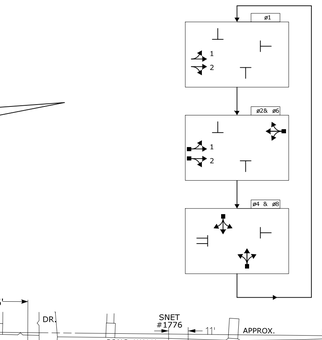
SIGNAL HOOK-UP CHART 34-309

HEAD #	COLORS	PHASE	TERMINALS
1	YA, GA	1	126,127
1	R,Y,G	6	134,135,136
2	R,Y,G	2	128,129,130
3	R,Y,G	4	101,102,103
4	R,Y,G	4	101,102,103
5	R,Y,G	2	128,129,130
6	R,Y,G	6	134,135,136
7	R,Y,G	8	107,108,109
8	R,Y,G	8	107,108,109

DETECTOR ASSIGNMENT CHART

IDENT	SLOT	PHASE	FUNCTION	C1-PIN
D2	I2U	2	CE	39
D2R	I3U	2	CES	41
D3	I6U	4	CE	63
D4, D4A	J6U	8	CE	76
D6	J2U	6	CE	40
D6A	J2L	6	CE	44
D6R	J3U	6	CES	64
D6AR	J3L	6	CES	77





SPAN POLE INFORMATION

28', 0 GA., 12" DIA., 16" B.C., LOAD AT YIELD 5650 Lb., INSTALLED 2008

FIBER OPTIC CABLE COLOR CODE	
CABLE FROM/TO	COLOR
INT NO. 34-227	GREEN
INT NO. 34-309	BLUE
CONTROLLER	RED

TYPICAL FIBER OPTIC CABLE SPLICE CHART			
FROM/TO		FROM/TO	
FOC COLOR	FOC STRAND	FOC COLOR	FOC STRAND
GREEN	1-6	RED	1-6
BLUE	1-6	RED	7-12
NOTE: GREEN/BLUE 7-12 TO PASS THRU WITHOUT SPLICING			

CITY SIGNAL

LEGEND:

- PROPOSED WOOD SPAN POLE
- EXISTING WOOD SPAN POLE
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- PEDESTAL MOUNTING
- PEDESTRIAN PUSH BUTTON & SIGN
- TRAFFIC SIGNAL FACE
- PEDESTRIAN SIGNAL FACE
- AUDIBLE PEDESTRIAN SIGNAL
- LOOP DETECTOR
- MAGNETIC DETECTOR
- SD SYSTEM DETECTOR
- OPTICAL DETECTOR
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- PROPOSED HANDHOLE
- EXISTING HANDHOLE
- PROPOSED R.M.C. (RIGID METAL CONDUIT)
- EXISTING R.M.C. (RIGID METAL CONDUIT)
- CABLE CLOSURE
- DET. LEADS IN SAW CUT
- AUXILIARY TERMINATION CABINET
- AUXILIARY EQUIPMENT CABINET
- SIDEWALK RAMP
- SONIC DETECTOR
- VIDEO DETECTOR
- VIDEO DETECTION ZONE

TRAFFIC CONTROL SIGNAL LAYOUT

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DATE PLOTTED: 8-15-2008 | SCALE: 1" = 40'

CITY OF DANBURY

ROUTE 37 (NORTH ST.) AT

MADISON AVE.

NO.	DATE	INIT.	DESCRIPTION
A	1/07		OPTICAL PRE-EMPTION ADDED, REVISE TO CITY-FURNISHED CONTROLLER

REVISIONS

CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: SEAL

TOWN: DANBURY

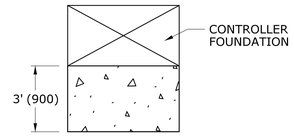
DRAWING TITLE: TRAFFIC SIGNAL PLAN SHEET

PROJECT NO.: 34-313

DRAWING NO.: TCS-006

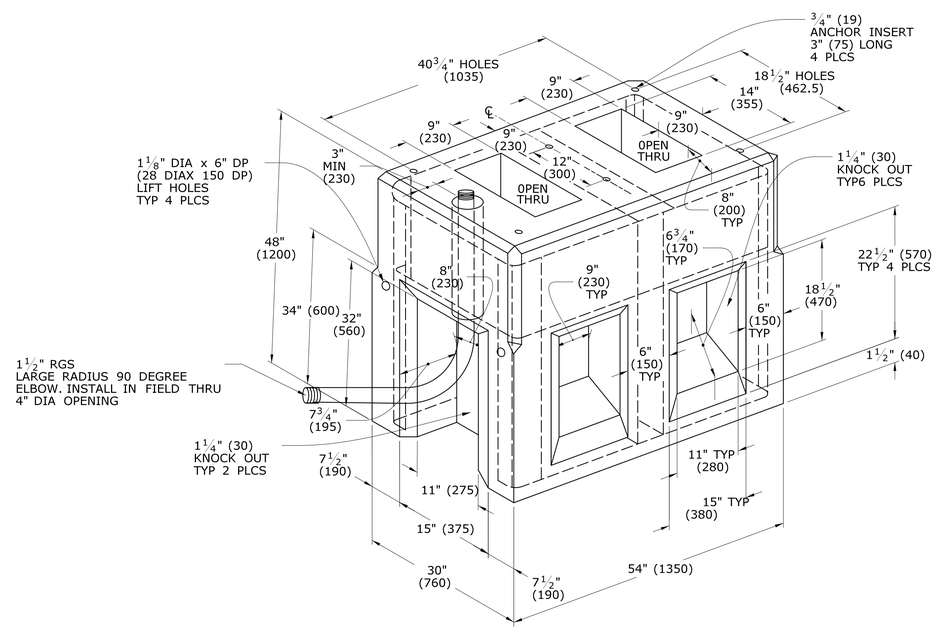
SHEET NO.: 06.21

REV.# | INTERSECTION# 034-263



INSTALL PRECAST OR CAST IN PLACE CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION.
MINMUM 3" (75) THICK SLAB.
MINMUM 6" (150) GRAVEL OR MISC AGG BASE, COMPACTED.
PITCH SIDEWALK $^{1}/_{4}$" PER FOOT (20 PER METER) AWAY FROM THE CONTROLLER FOUNDATION.

TYPICAL CONCRETE SIDEWALK AT CONTROLLER FOUNDATION



TRAFFIC CONTROL FOUNDATION CONTROLLER - TYPE V - PRECAST

NOTES:

INSTALL FOUNDATION ON 6" (150) OF COMPACTED GRAVEL IN ACCORDANCE WITH SECTION 2.14.
LEVEL FOUNDATION WITH A PROJECTION OF 4" (100) ABOVE FINISHED GRADE.
INSTALL COPPER GROUND ROD: $^{5}/_{8}$" x 10 (16 x 3000).
PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" (50) GROUT LEVEL WITH THE TOP OF THE FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M.3.01-12.
CONCRETE: CLASS "F" 4000 PSI
#4 REBAR 2" (50) MIN COVER AROUND ALL OPENINGS, 3-#4 REBARS IN EACH CORNER.
CONDUITS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- PROPOSED CONTROLLER
- EXISTING CONTROLLER
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameDANBURY TRAFFIC CONTROLLER FOUNDATION.dgn 3/25/2014 Border Version: 6/1/05

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: **M. DION**
CHECKED BY: **R. GOMEZ**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

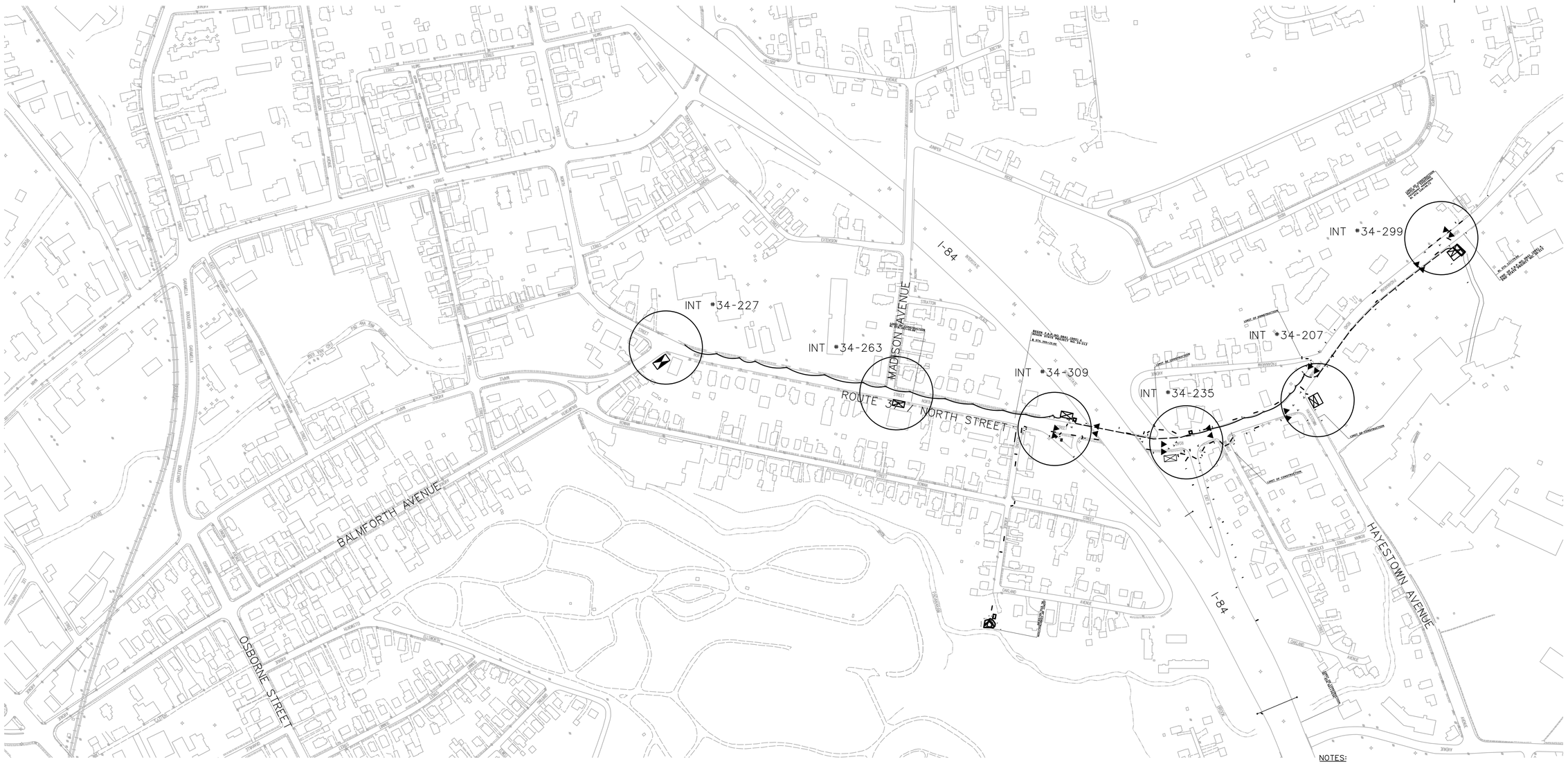
STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **TRAFFIC CONTROL FOUNDATIONS**

PROJECT NO. **34-313**
DRAWING NO. **TCS-007**
SHEET NO. **06.22**



NOTES:

1. LOCATIONS OF HANDHOLES ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION TO AVOID ANY CONFLICTS.
2. HANDHOLES AND CONDUITS SHALL BE INSTALLED WITHIN THE GRASS STRIP OR UNDER ROADWAY WITHIN STATE R.O.W. ALL HANDHOLES FOR INTERCONNECT SHALL BE 30" x 30".
3. SEE TRAFFIC SIGNAL SHEETS FOR ADDITIONAL INFORMATION.

LEGEND:

- SYSTEM DETECTOR
- PROPOSED CONTROLLER CABINET
- EXISTING CONTROLLER CABINET
- HAND HOLE (PULL BOX)
- 2" CONDUIT WITH 12 STRAND FIBEROPTIC CABLE
- 12 STRAND FIBER OPTIC CABLE INSTALLED OVERHEAD

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Filename: TR_MSH_INT_034_0313.dgn 3/25/2014 Border Version: 07/09

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: **M. DION**
CHECKED BY: **R. GOMEZ**
SCALE IN FEET 0 200 400
SCALE 1"=200'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

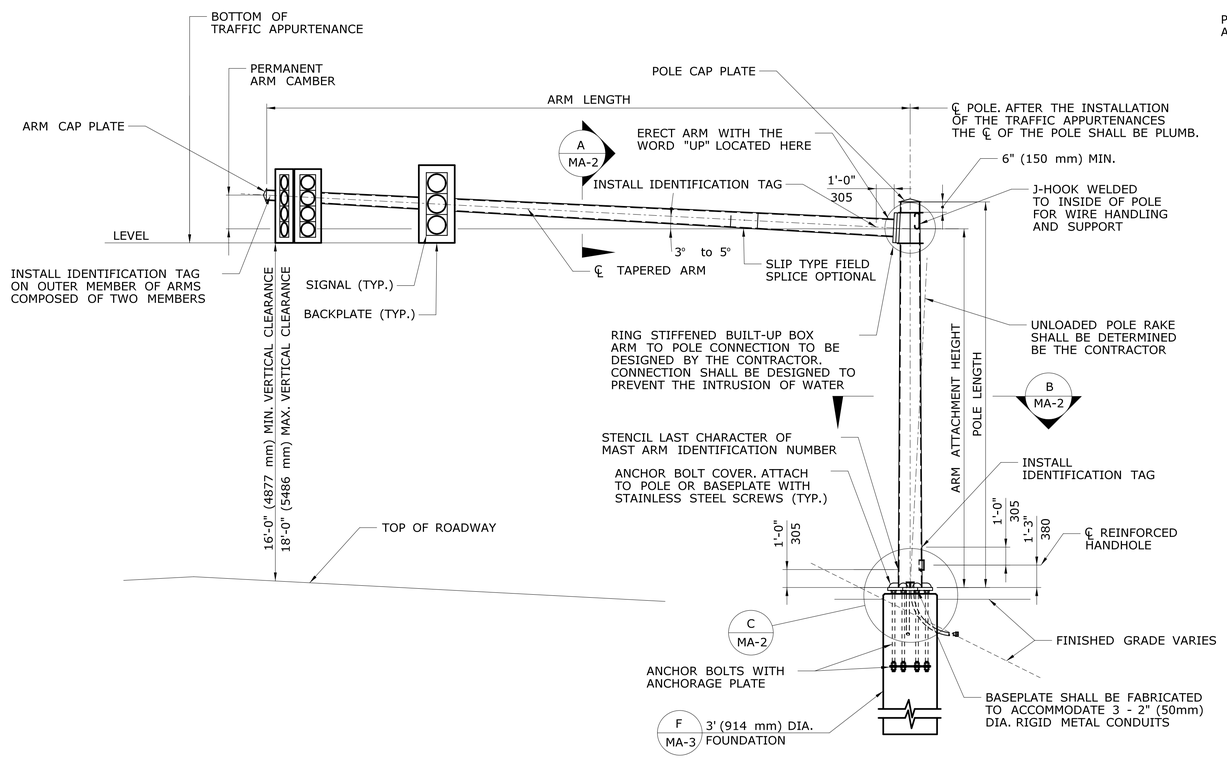
STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

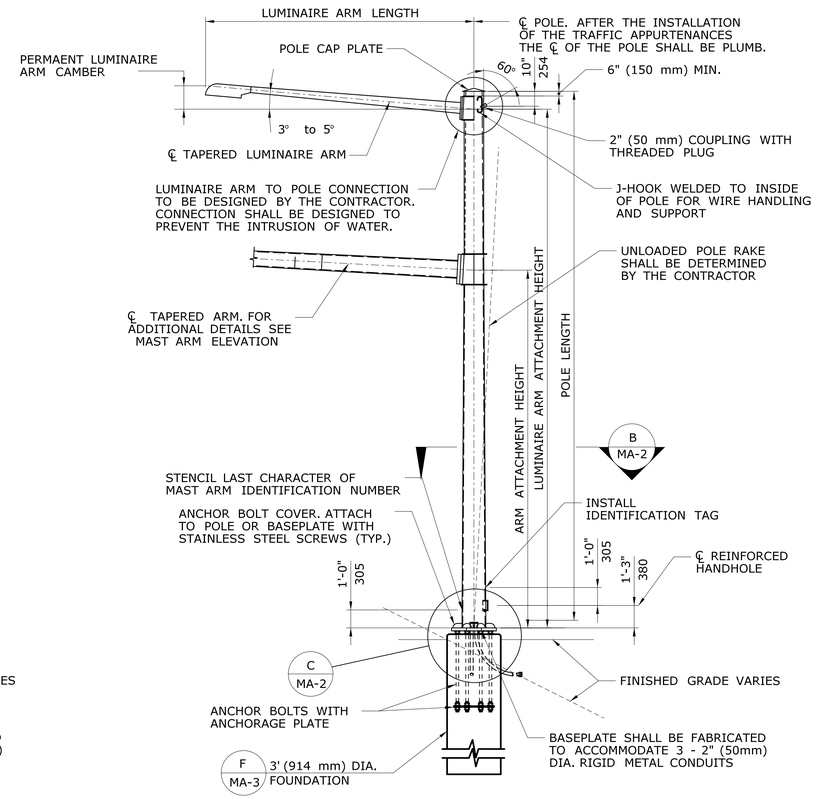
TOWN: **DANBURY**

DRAWING TITLE: **SYSTEM INTERCONNECT PLAN**

PROJECT NO. **34-313**
DRAWING NO. **INT-01**
SHEET NO. **06.23**



ELEVATION
MAST ARM
SCALE: 1/4" = 1'-0"



ELEVATION
COMBINATION MAST ARM
SCALE: 1/4" = 1'-0"

MAST ARM ASSEMBLY NOTES

THE MAST ARM, INCLUDING THE ANCHORAGE TO THE FOUNDATION, SHALL BE DESIGNED, FABRICATED AND INSTALLED BY THE CONTRACTOR, OF THE SPAN SPECIFIED, IN ACCORDANCE WITH THE SPECIAL PROVISION "XX STEEL MAST ARM ASSEMBLY" OR "XX STEEL COMBINATION MAST ARM ASSEMBLY".

THE DIMENSIONS OF THE MAST ARM ASSEMBLY AND DETAILS OF THE TRAFFIC APPURTENANCES SUPPORTED BY THE MAST ARM ASSEMBLY ARE SHOWN ON THE TRAFFIC SIGNAL PLANS, ELEVATIONS, CROSS-SECTIONS OR IN THE SPECIAL PROVISIONS. THE ARM AND POLE LENGTHS AND THE ATTACHMENT HEIGHTS SHALL BE VERIFIED BY THE CONTRACTOR BASED ON THE FINISHED GRADE AT THE SITE, TOP OF FOUNDATION ELEVATION, THE LOCATIONS OF OVERHEAD UTILITY CABLES AND THE TRAFFIC APPURTENANCE MOUNTING HEIGHTS. IF EITHER THE ARM OR POLE LENGTH IS INADEQUATE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

THE MAST ARMS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS, AS AMENDED BY THE AS SPECIAL PROVISION "XX STEEL MAST ARM ASSEMBLY" OR "XX STEEL COMBINATION MAST ARM ASSEMBLY".

THE MAST ARM SHALL BE DESIGNED FOR THE LOAD EFFECTS DUE TO THE ACTUAL TRAFFIC APPURTENANCES (SIGNALS, SIGNS, LUMINAIRES, CAMERAS, ETC.). THE MAST ARMS SHALL ALSO BE DESIGNED FOR THE EFFECTS OF TRAFFIC APPURTENANCES DURING ALL STAGES OF CONSTRUCTION THAT MAY EXIST DURING THE PROJECT UNDER WHICH THE MAST ARMS ARE INSTALLED.

THE MAST ARMS SHALL BE DESIGNED TO SUPPORT TRAFFIC APPURTENANCES WITH PROPERTIES NO LESS THAN THOSE SHOWN IN THE TABLE ENTITLED "TRAFFIC APPURTENANCE PROPERTIES - MINIMUM DESIGN VALUES".

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameXXXXXXX_SB_MastArm.dgn 3/25/2014 Border Version: 6/7/06

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: **M. DION**
CHECKED BY: **R. GOMEZ**
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**
APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

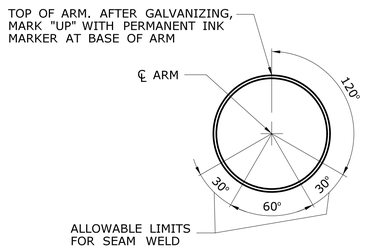
STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

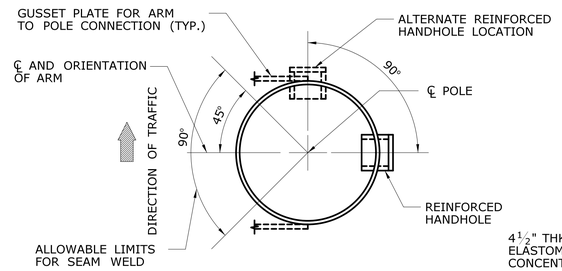
TOWN: **DANBURY**

DRAWING TITLE: **MAST ARM ASSEMBLY ELEVATION**

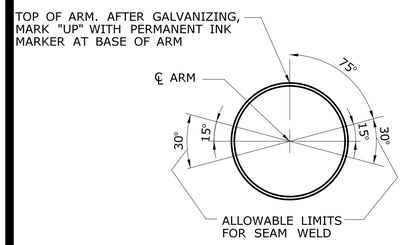
PROJECT NO. **34-313**
DRAWING NO. **MA-1**
SHEET NO. **06.24**



ARM WITH 1 SEAM WELD

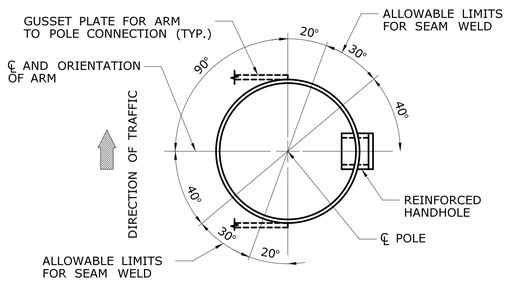


POLE WITH 1 SEAM WELD



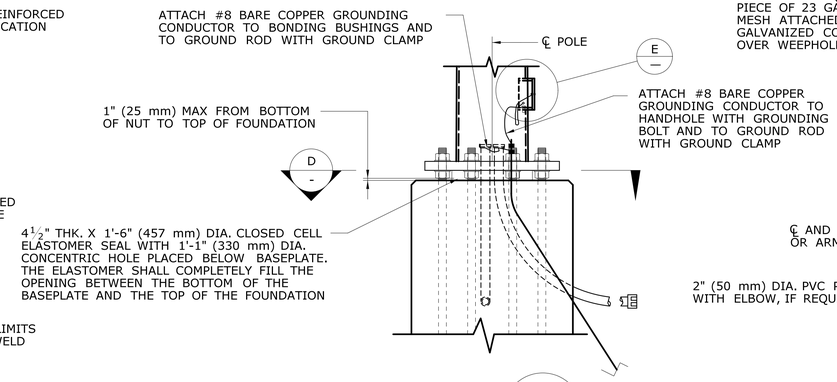
ARM WITH 2 SEAM WELDS

SECTION A
SCALE: 1½" = 1'-0" MA-1

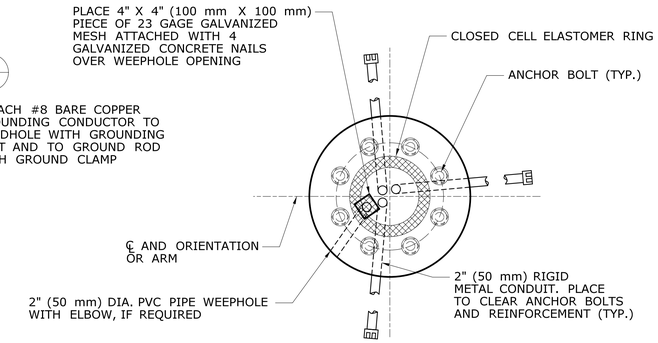


POLE WITH 2 SEAM WELDS

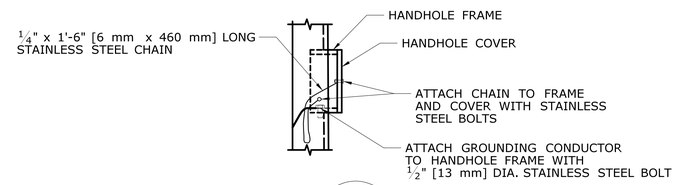
SECTION B
SCALE: 1½" = 1'-0" MA-1



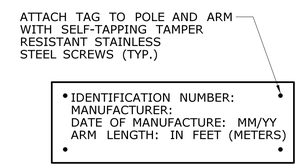
SECTION C
SCALE: ¾"=1'-0" MA-1



SECTION D
SCALE: ¾"=1'-0"

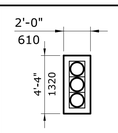
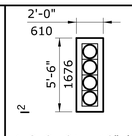
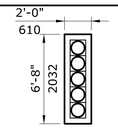
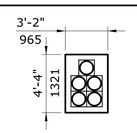
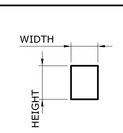


DETAIL E
SCALE: 1½" = 1'-0"



IDENTIFICATION TAG
NTS

TRAFFIC APPURTENANCE PROPERTIES MINIMUM DESIGN VALUES

	 3 SECTION , 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	 4 SECTION , 12" (305) DIA. TRAFFIC SIGNAL W/BACKPLATE	 5 SECTION , 12" (305) DIA.TRAFFIC SIGNAL W/ BACKPLATE	 5 SECTION , 12" (305) DIA.TRAFFIC SIGNAL W/ BACKPLATE	 SHEET ALUMINUM SIGN PANEL
WEIGHT, INCLUDING MOUNTING HARDWARE	65 LBS (29.48 kg)	80 LBS (36.29 kg)	95 LBS (43.09 kg)	105 LBS (47.63 kg)	4 LBS/SQ.FT. (19.53 kg/m^2)
TOTAL SURFACE AREA	28.04 SQ. FT. (2.61 m^2)	35.46 SQ. FT. (3.29 m^2)	45.16 SQ. FT. (4.20 m^2)	41.04 SQ. FT. (3.81 m^2)	BASED ON PANEL DIMENSIONS
PROJECTED AREA, FRONT FACE	8.62 SQ. FT. (0.80 m^2)	10.91 SQ. FT. (1.01 m^2)	13.34 SQ. FT. (1.24 m^2)	13.72 SQ. FT. (1.28 m^2)	BASED ON PANEL DIMENSIONS
PROJECTED AREA, BOTTOM FACE	1.18 SQ. FT. (0.11 m^2)	1.18 SQ. FT. (0.11 m^2)	1.18 SQ. FT. (0.11 m^2)	2.58 SQ. FT. (0.24 m^2)	BASED ON PANEL DIMENSIONS

NOTES:

THE TABULATED VALUES ARE THE MINIMUM VALUES THAT SHALL BE USED FOR THE DESIGN.

MAST ARMS SHALL BE DESIGNED ASSUMING ALL TRAFFIC SIGNALS ARE COMPOSED OF 12" (305 mm) DIAMETER SECTIONS WITH BACKPLATES.

THE PROJECTED FRONT FACE AREA IS IN A PLANE PARALLEL TO THE PLANE FORMED BY THE ARM AND THE POLE.

IF MULTIPLE APPURTENANCES ARE ATTACHED AT THE SAME LOCATION, THE MINIMUM DESIGN VALUE SHALL BE NO LESS THAN THE SUM OF THE CORRESPONDING TRAFFIC APPURTENANCE PROPERTIES.

FOR TRAFFIC APPURTENANCES NOT SHOWN, THE PROPERTIES SHALL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW WITH THE WORKING DRAWING SUBMITTAL.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameXXXXXXX_SB_MastArm.dgn 3/25/2014 Border Version: 6/7/05

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DESIGNER/DRAFTER: M. DION
CHECKED BY: R. GOMEZ
SCALE IN FEET 0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: AECOM USA INC. / VN ENGINEERS, Inc.
APPROVED BY: SOFIA NIRSHBERG, PE DATE: 03/28/2014

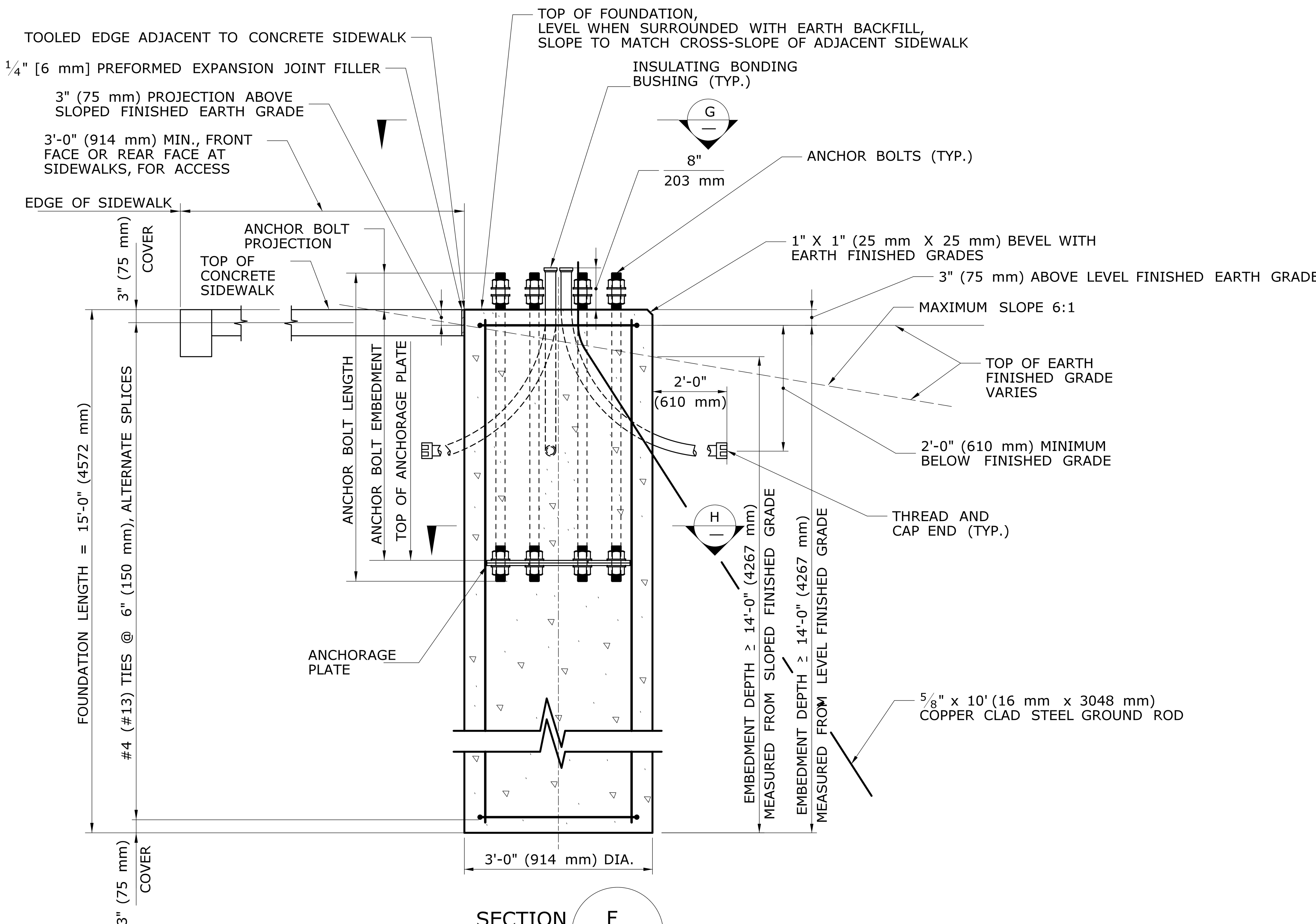
STATE OF CONNECTICUT SOFIA M. NIRSHBERG No. 16175 LICENSED PROFESSIONAL ENGINEER

PROJECT TITLE: I-84 INTERCHANGES 5 & 6 IMPROVEMENTS

TOWN: DANBURY

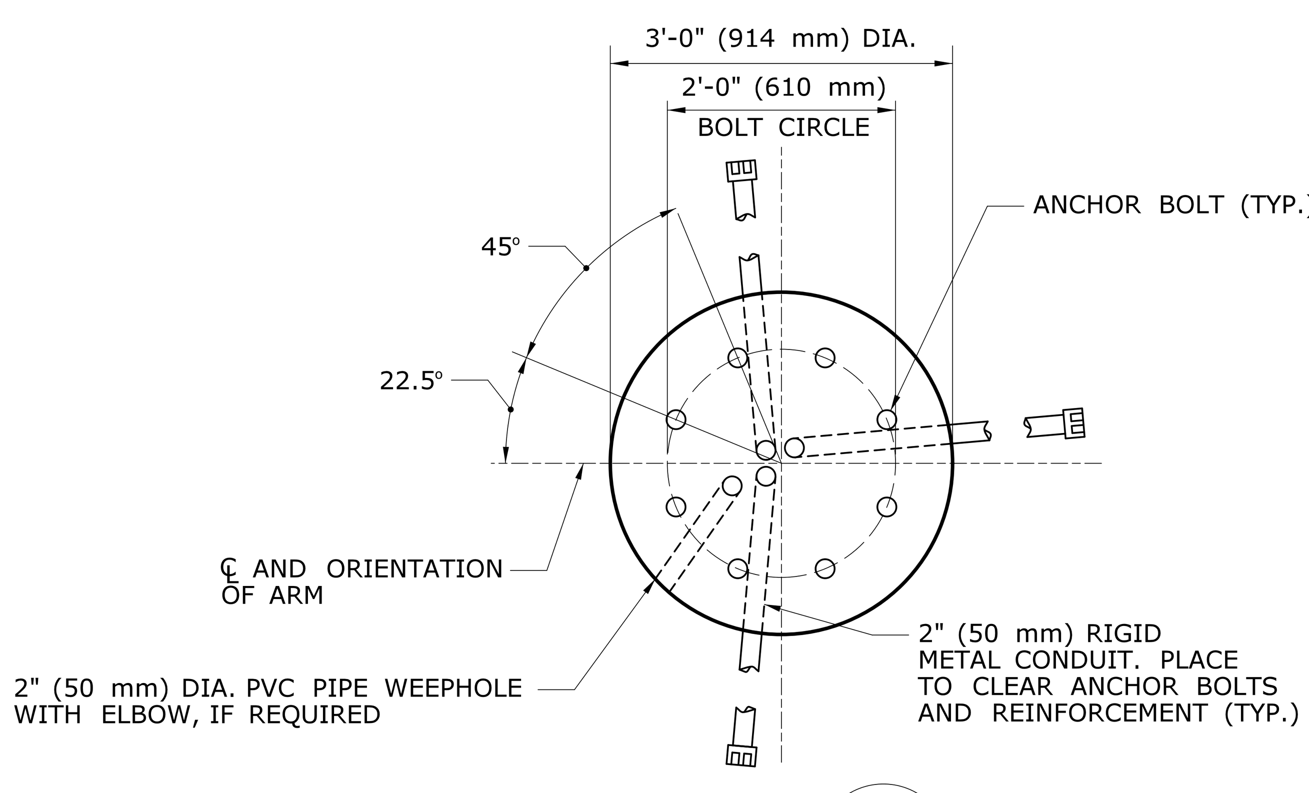
DRAWING TITLE: MAST ARM ASSEMBLY DETAILS

PROJECT NO. 34-313
DRAWING NO. MA-2
SHEET NO. 06.25



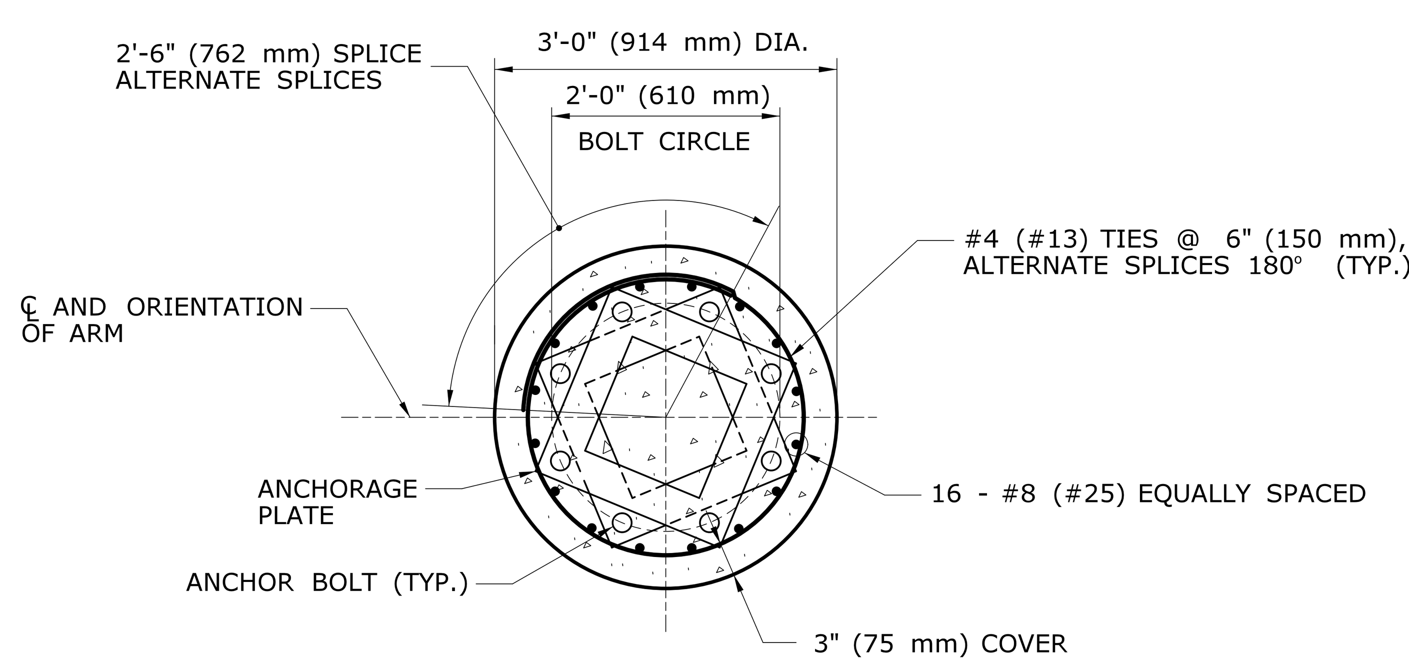
SECTION F / MA-1

SCALE: 3/4"=1'-0"



SECTION G / —

SCALE: 3/4"=1'-0"



SECTION H / —

Scale: 3/4"=1'-0"

FOUNDATION NOTES

THE MAST ARM FOUNDATION IS DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, WITH THE LATEST INTERIM SPECIFCATIONS.

THE FOUNDATION EMBEDMENT IS DESIGNED FOR MAXIMUM LOAD EFFECTS, APPLIED AT THE TOP OF THE FOUNDATION, NO GREATER THAN THE FOLLOWING:

AXIAL COMPRESSIVE FORCE:	K (kN)
RESULTANT SHEAR FORCE:	K (kN)
TORSION:	FT - K (kN - m)
RESULTANT BENDING MOMENT:	FT - K (kN - m)

THE USE OF THE FOUNDATION IS NOT PERMITTED IF THE COMPUTED REACTIONS FROM THE CONTRACTOR DESIGNED MAST ARM ASSEMBLY EXCEED THE ABOVE LOAD EFFECTS.

THE ENGINEER SHALL BE NOTIFIED IF THE SLOPE OF THE FINISHED GRADE AT THE FOUNDATION EXCEEDS THE MAXIMUM PERMITTED SLOPE.

THE CONCRETE FOR THE FOUNDATION SHALL CONFORM TO "CLASS "A" CONCRETE".

THE REINFORCEMENT SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60 (ASTM A615M, GRADE 420). THE REINFORCEMENT SHALL BE ASSEMBLED WITH WIRE TIES. WELDING TO ASSEMBLE REINFORCEMENT IS NOT PERMITTED. ALL REINFORCEMENT SHALL HAVE 3" (75 mm) COVER, UNLESS OTHERWISE NOTED.

THE CONCRETE SHALL BE PLACED IN A AUGERED HOLE AGAINST UNDISTRURBED EARTH.

THE MAST ARM SHALL NOT BE ERECTED ON THE FOUNDATION UNTIL AFTER THE CONCRETE HAS ATTAINED A 28 DAY COMPRESSIVE STRENGTH, f'_c, GREATER THAN OR EQUAL TO 3000 PSI (21 MPa).

THE COST OF THE FOUNDATION, INCLUDING THE EXCAVATION, CONCRETE AND REINFORCEMENT, SHALL BE PAID FOR UNDER THE ITEM "TRAFFIC CONTROL FOUNDATION - MAST ARM".

ATTENTION USER:

THE USER OF THESE FOUNDATION DETAILS IS RESPOSIBLE FOR DETERMNING THE VALUES FOR THE MAXIMUM LOAD EFFECTS APPLIED AT THE TOP OF THE FOUNDATION AND ADDING THE VALUES TO THE ABOVE NOTES. THE USER SHALL ENSURE THAT THE FOUNDATION IS ONLY USED FOR MAST ARM ASSEMBLIES WITH COMPUTED REACTIONS THAT DO NOT EXCEED THESE MAXIMUM LOAD EFFECTS. THIS NOTE SHALL BE REMOVED, BY THE USER, PRIOR TO INCORPORATING THESE FOUNDATION DETAILS INTO THE CONTRACT DOCUMENTS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

FilenameXXXXXXX_SB_MastArm.dgn 3/25/2014 Border Version: 6/17/05

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DESIGNER/DRAFTER: **M. DION**

CHECKED BY: **R. GOMEZ**

SCALE IN FEET 0 40 80 SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

ENGINEER: **AECOM USA INC. / VN ENGINEERS, Inc.**

APPROVED BY: **SOFIA NIRSHBERG, PE** DATE: 03/28/2014

PROJECT TITLE: **I-84 INTERCHANGES 5 & 6 IMPROVEMENTS**

TOWN: **DANBURY**

DRAWING TITLE: **MAST ARM ASSEMBLY FOUNDATION DETAILS**

PROJECT NO. **34-313**

DRAWING NO. **MA-3**

SHEET NO. **06.26**