TRAFFIC - LEGENDS & LIST OF DRAWINGS

STANDARD CONVENTIONS

HEDGE LINE	PICKET FENCE	EXISTING CULVERT
BIT. CONC. LIP CURBING	BOARD FENCE	PROPOSED CULVERT
CURB STATED WHETHER STONE or CONC.	WIRE FENCE	
STONE WALL	GRAPE ARBOR	HOUSE / BARN — BUILDINGS
CONC. WALK	RETAINING WALL	
WALK - TAR, GRAVEL or EARTH	OPEN DITCH DRY	RIVERS, LAKES, FLOWING STREAMS, ETC.
NAME of CO. / EXISTING R.R. TRACKS	TELEGRAPH, TELEPHONE or ELECTRIC LIGHT POLES	SWAMP
PROPOSED R.R. TRACKS	GUIDE RAIL (NOTE TYPE)	
TAKING LINE		C.B.
TAKING LINE NA or NA LINE	LEDGE or ROCK	RANDOM STONE
EASEMENT LINE	HYDRANT	HIGHWAY MON. C.H.D. MONUMENT
PROPERTY LINE	TREE / DECIDIOUS EVERGREEN	
TOWN LINE	NORTH ARROW (MAGNETIC)	EXISTING TRAVEL PATH

STANDARD TRAFFIC SIGNAL CONVENTIONS

○	PROPOSED WOOD SPAN POLE
●	EXISTING WOOD SPAN POLE
□	PROPOSED STEEL SPAN POLE
■	EXISTING STEEL SPAN POLE
	PROPOSED COMBINATION SPAN POLE
	EXISTING COMBINATION SPAN POLE
	PROPOSED UTILITY POLE
	EXISTING UTILITY POLE
	PEDESTAL MOUNTING
	PEDESTAL PUSH BUTTON
	TRAFFIC SIGNAL FACE
	PEDESTRIAN SIGNAL FACE
	CONTROLLER
	LOOP DETECTOR
	LOOP LEADS IN SAWCUT
	MAGNETIC DETECTOR
	HANDHOLE
	CONDUIT
	PORCELAIN STRAIN INSULATOR
	CABLE CLOSURE

STANDARD SIGNING 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)	
00 / 00-0	LOCATION NO. / SIGN NO.	

LIST OF DRAWINGS

DWG. NO.	SHEET NO.	TITLE
TR-01	03.01	SUBSET TITLE SHEET
TCS-01 -TCS-18	03.02-03.19	TRAFFIC CONTROL SIGNAL PLANS
PVT-01	03.20	PAVEMENT MARKING PLANS
GS-01 -GS-3	03.21-03.23	TRAFFIC GUIDE SHEETS

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

Barbara Ricozzi
2011.07.13 09:57:04 -04'00'

TRANSPORTATION PRINCIPAL ENGINEER

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

Tracy L. Fogarty
2011.07.13 09:58:56 -04'00'

TRANSPORTATION PRINCIPAL ENGINEER

DESIGNED BY:
GM2 ASSOCIATES, INC.
115 GLASTONBURY BLVD.
GLASTONBURY, CT 06033

STATE OF CONNECTICUT — MADAN M. GUPTA — No. 14002 — LICENSED PROFESSIONAL ENGINEER

MADAN M GUPTA
I Sign and Certify
Sheet Nos. 03.2, 03.11, 03.12, 03.13, 03.14, 03.19
2011.08.24
14:54:05-04'00'

DESIGNED BY:
VN ENGINEERS INC.
116 WASHINGTON AVENUE
NORTH HAVEN, CT 06473

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

Sofia M Nirshberg
I Sign and Certify
Sheet No. 03.15
2011.07.13
15:13:30 -04'00'

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
- -	- -	- -	- -
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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

Plotted Date: 7/6/2011

DESIGNER/DRAFTER: D SWINBURNE
CHECKED BY: L CONROY

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Traffic\TR_MSH_CVR_173_403.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
INSTALLATION & REVISION OF TRAFFIC CONTROL SIGNALS IN DISTRICT 3

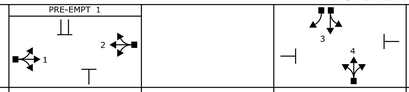
TOWN: VARIOUS

DRAWING TITLE:
TRAFFIC - LEGENDS & LIST OF DRAWINGS

PROJECT NO. 173-403
DRAWING NO. TR-01
SHEET NO. 03.1

MOVEMENT DIAGRAM

NONE



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	R				R	R	R												
2	Y				G	Y	R				R	R	R												
3	R				R	R	R				G	Y	R												
4	R				R	R	R				G	Y	R												
INTERVALS: MIN GRN					18						7														
WALK											10														
PED CLR											1														
VEH EXT					2.5						2														
MAX 1					40						20														
MAX 2					40						20														
YELLOW						4.3						3													
RED							2.4						1.6												
ADD INIT																									
MAX INIT																									
TBR																									
TTR																									
MIN GAP																									
MODE		OFF			MIN. RECALL			OFF			NON-LOCK			OFF			OFF			OFF			OFF		
INT START					THIS PHASE																				

ENERGY BY	TOWN	ADDRESS # 669
MAINT LEVEL	5	SERVICE POLE CL&P 41677
UNMETERED SERVICE		

INTERSECTION # 014-212

SIGNAL FACES

1, 2, 3, 4

ALL INDICATIONS TO HAVE LED LAMPS

OFFICE RECORD

REVISION #

STC # N/A SM # N/A

SIGNAL REVISED

REPLACED SIGNAL EQUIPMENT UNDER PROJECT 173-403.

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.	NO
HOLD GREEN	15
HOLD YELLOW	4.3
HOLD RED	2.4
HOLD PHASE	2
EXIT PHASE	4
EXIT CALL	NONE

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2	6'X6'	3	PRESENCE
D2A	6'X6'	4	PRESENCE
D2B	6'X6'	3	PRESENCE
D2C	6'X6'	4	PRESENCE
D4	6'X6'	3	8" DELAY
D4A	6'X6'	3	PRESENCE
D4B	8'X6'	3	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	2400-0500	DAILY
MAX 1	ALL OTHER TIMES	
MAX 2	FUTURE	
FREE	ALL OTHER TIMES	

COORDINATION TYPE - CLOSED LOOP

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

SYSTEM LOC	TECHNICAL NOTES
MASTER	STANDARD OVERLAP SKIP FEATURES APPLY
014-211	PRE-EMPTION EQUIPMENT TO BE INOPERATIVE DURING FLASHING OPERATION.
014-222	
014-212	
014-231	

LEGEND:

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

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING & CONSTRUCTION DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF BRANFORD
U.S. ROUTE 1 (NORTH MAIN STREET)
AT
IVY STREET AND NORTH IVY STREET

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY	GM2 ASSOCIATES, INC.			
APPROVED BY				
DATE	7/12/2011		7/12/2011	

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTAL, AND HANDHOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL PEDESTAL FOR PEDESTRIAN PUSH BUTTON AT BACK EDGE OF WALK WITHIN R.O.W.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

CABINET DOOR TO OPEN STREET SIDE.

INSTALL STATE FURNISHED CONTROLLER & CABINET ON A TYPE IV FOUNDATION.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE (S) (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE (T) . TWIST LOOP DETECTOR. SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL LOOP DETECTORS IN CENTER OF LANE AND 8 FEET APART UNLESS OTHERWISE SPECIFIED.

COORDINATE AND SCHEDULE THE FOLLOWING WORK BY UTILITY COMPANIES: TWO WEEKS PRIOR TO INSTALLATION CONTACT CL&P REPRESENTATIVE MR. TONY SARUBBI AT (203)245-5412.

CL&P #5089 IS TO BE REMOVED BY THE UTILITY COMPANY. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO HAVE THEM INSTALL AN ANCHOR ON UTILITY POLE CL&P 41678.

ESTIMATED LOAD ON UTILITY POLES:
CL&P #41678: 2500 lbs.

SERVICE CONNECTION TO BE MADE BETWEEN CL&P 41677 AND CL&P 41678.

SIGNAL SPANS TO BE ATTACHED TO ONE "EYE" BOLT ON CL&P POLE 41678.

(U) - PULL OFF TO BE IN LINE WITH GUY WIRE. SEE EYE BOLT AND ANCHOR INSTALLATION DETAILS IN CONNDOT STANDARD SHEETS.

2' PULL OFF AT CL&P 41678

SPAN ATTACHMENT ON CL&P #41678 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

(R) DISCONNECT AND REMOVE EXISTING 16/6 INTERCONNECT CABLE FROM CABLE CLOSURE AT TOP OF UTILITY POLE CL&P #41677 AND REPLACE EXISTING 1¼" RMC WITH NEW 2" RMC.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

PRE-EMPTION CONSTRUCTION NOTES:

RELOCATE EXISTING AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

RELOCATE EXISTING PRE-EMPTION EQUIPMENT. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. ALL NEW CABLES TO BE INSTALLED.

RELOCATE EXISTING OPTICAL DETECTORS ON TO NEW SPAN.

STATE LAB WILL 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.

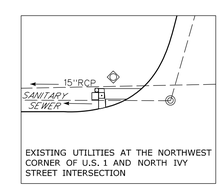
CONTRACTOR TO INSTALL/ERADICATE PAVEMENT MARKINGS AS INDICATED BELOW:

- INSTALL ALL STOP BARS AS SHOWN.
- ERADICATE EXISTING PAVEMENT MARKING ARROWS ON NORTH IVY STREET AND INSTALL NEW PAVEMENT MARKING ARROWS AND 35 FOOT WHITE LANE LINE AS SHOWN.

(X) INSTALL SIDEWALK RAMP TYPE 4b.
(Y) INSTALL SIDEWALK RAMP TYPE 2.
(Z) INSTALL SIDEWALK RAMP TYPE 4c.
(P) INSTALL 5' WIDE CONCRETE SIDEWALK.

NO.	DATE	INIT.	DESCRIPTION

REVISIONS



EXISTING UTILITIES AT THE NORTHWEST CORNER OF U.S. 1 AND NORTH IVY STREET INTERSECTION

REV # | INTERSECTION # 014-212

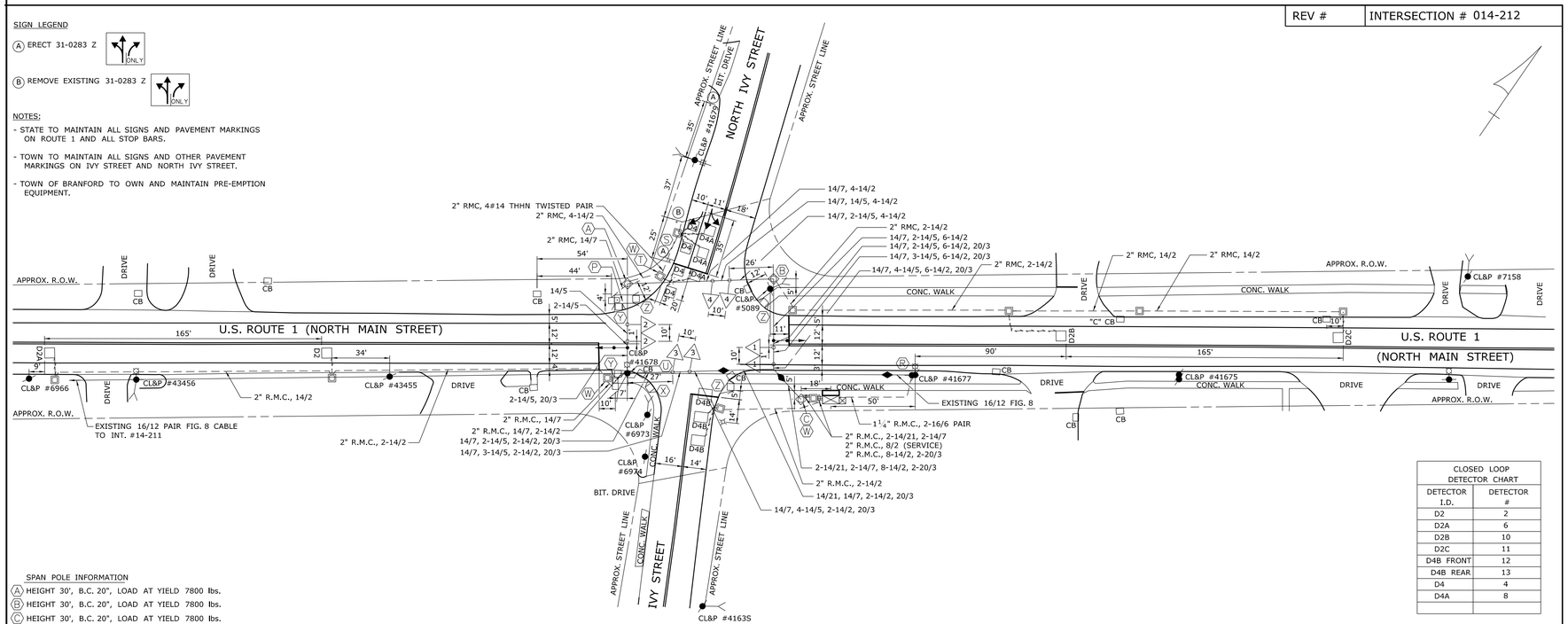
SIGN LEGEND

(A) ERECT 31-0283 Z (ONLY)

(B) REMOVE EXISTING 31-0283 Z (ONLY)

NOTES:

- STATE TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON ROUTE 1 AND ALL STOP BARS.
- TOWN TO MAINTAIN ALL SIGNS AND OTHER PAVEMENT MARKINGS ON IVY STREET AND NORTH IVY STREET.
- TOWN OF BRANFORD TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT.



CLOSED LOOP DETECTOR CHART	
DETECTOR I.D.	DETECTOR #
D2	2
D2A	6
D2B	10
D2C	11
D4B FRONT	12
D4B REAR	13
D4	4
D4A	8

SPAN POLE INFORMATION

(A) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs.
(B) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs.
(C) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs.

V:\173_403_CTDOT_TRAFFIC_SIGNALS\Traffic\TR_MSH_TCS_014212_173_403.dgn | DATE PLOTTED 7/12/2011

SCALE 1" = 40'

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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : GM2

DESIGNED BY : GM2

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF BRANFORD
U.S. ROUTE 1 (NORTH MAIN STREET)
AT
IVY STREET AND NORTH IVY STREET

TOWN: TOWN OF BRANFORD

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403

DRAWING NO. TCS-1

SHEET NO. 03.2

REV # | INTERSECTION # 014-212

MOVEMENT DIAGRAM

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

FACE #	FLASH	PHASE 1 GRN	CL	CL	PHASE 2 GRN	CL	CL	PHASE 3 GRN	CL	CL	PHASE 4 GRN	CL	CL	PHASE 5 GRN	CL	CL	PHASE 6 GRN	CL	CL	PHASE 7 GRN	CL	CL	PHASE 8 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						
7	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R						
8	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R						
P	OFF	←		DW	→			Wø	←					DW			→								
						← YIELD	POINT											← YIELD	POINT						

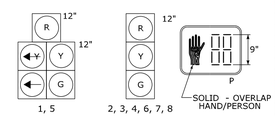
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	3	15		7	3	15		
WALK			7					
PED CLR			8 (1)					
VEH EXT	1	3		1.5	1	3		
MAX 1	6	45		25	6	45		
MAX 2	6	45		25	6	45		
YELLOW	3.0	3.5	4.0	3.0	3.0	3.5		
RED	0.1	1.0	0.1	1.1	0.1	1.0		
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MIN RECALL	OFF	OFF
INT START		THIS PHASE				THIS PHASE		

COUNTDOWN PEDESTRIAN SIGNAL

ENERGY BY - CITY	ADDRESS #
MAINT LEVEL - 5	SERVICE POLE - U.I. 3217
METERED SERVICE	

INTERSECTION #015-215

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	3.5	3.5	3.5
ALT. RED	1.0	1.0	1.0
ALT. PED. CLR.	8	8	8
HOLD GREEN	15	15	15
HOLD YELLOW	3.0	3.0	3.0
HOLD RED	0.1	0.1	1.1
HOLD PHASE	1&6	2&5	4
EXIT PHASE	2&6	2&6	1&5
EXIT CALL	NONE	NONE	NONE

OFFICE RECORD

REVISION #

STC # 015-1105-03 SM # N/A

SIGNAL REVISED:

UPGRADED SIGNAL EQUIPMENT, REVISED PHASING, ADDED LEFT TURN LANES AND EMERGENCY PRE EMPTION UNDER PROJECT 173-403

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF BRIDGEPORT
U.S. ROUTE 1 (NORTH AVE.)
AT MADISON AVE.

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	JRP	4/11	ZRC	5/11
DRAWN BY	JRP	4/11	MJC	5/11
CHECKED BY	PIO	5/11	MRM	5/11
SUBMITTED BY	MFM	5/11	LNC	5/11
APPROVED BY				
DATE	7/13/11		7/13/11	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6' X 6'	3	PRESENCE
D2	10' X 6'	3	PRESENCE
D4	10' X 6'	3	PRESENCE
D4A	14' X 6'	3	PRESENCE
D5	6' X 6'	3	PRESENCE
D6	9' X 6'	3	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	NONE	
MAX 1	ALL OTHER TIMES	
MAX 2	FUTURE	
CYCLE 1	0630-0900	M-F
CYCLE 2	0900-1500	M-F
	0900-1700	S-S
CYCLE 3	ALL OTHER TIMES	
CYCLE 5	1500-1900	M-F
FREE	2100-0600	DAILY

COORDINATION TYPE : CLOSED LOOP

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
70	55	79	9 / 13	22 / 31	19 / 27	20 / 29	9 / 13	22 / 31		
80	75	95	8 / 10	32 / 40	19 / 24	21 / 26	8 / 10	32 / 40		
70	0	0	9 / 13	22 / 31	19 / 27	20 / 29	9 / 13	22 / 31		
90	50	55	8 / 9	38 / 42	19 / 21	25 / 28	8 / 9	38 / 42		

PERMIS PERIOD Ø	SEC	SYSTEM LOC MASTER
		15-231
		15-348
		15-215
		15-202
		15-217
		15-218

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION
PHASE SPLITS SHOWN REFLECT PRELIMINARY COORDINATION DATA
ACTUAL SPLITS TO BE DETERMINED BY COORDINATION PROGRAM
(1) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL
PHASE 2 & PHASE 6 DETECTORS TO BE NON-ACTUATING DURING COORDINATION
PHASES 1 & 5 TO DRIVE FACES 1 & 5 ◄— AND ◄-Y- ONLY
PHASES 2 & 6 TO DRIVE FACES 1 & 5 R, Y & G
PHASE 2 ON TO OMIT PHASE 1
PHASE 6 ON TO OMIT PHASE 5
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CLEARANCE INTERVAL

LEGEND:

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

DIVISION OF TRAFFIC ENGINEERING CADD

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

INSTALL LOOP DETECTORS CENTERED IN LANE AND 8 FT. APART UNLESS OTHERWISE SPECIFIED.

D4 AND D4A DETECTORS TO BE INSTALLED 3 FT. FROM CENTERLINE.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES AND WOOD POLES.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (SPAN POLES, PEDESTALS AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN THREE (3) FEET. IF A MINIMUM THREE (3) FOOT FREE PATH IS UNAVAILABLE THE CONTRACTOR MUST CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

(D) INSTALL FOUNDATION ADJACENT TO AND WITHIN R.O.W.

(E) INSTALL FOUNDATION ADJACENT TO SIDEWALK BACK EDGE.

(F) INSTALL DIAGONAL SIDEWALK RAMP (TYPE 4c).

(G) INSTALL PERPENDICULAR SIDEWALK RAMP (TYPE 2).

CONTRACTOR SHALL INSTALL SIGN No. 31-0845 AT ALL PEDESTRIAN PUSH BUTTON LOCATIONS.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL OF DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

INSTALL STATE FURNISHED CONTROLLER AND CABINET ON TYPE IV FOUNDATION.

CABINET DOOR TO OPEN STREET SIDE.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL R.M.C. STAND-OFFS ON U.I. #10125 UTLITY POLE.

CONTRACTOR SHALL COORDINATE WITH UTILITIES TO REMOVE ABANDONED UTILITY POLE NEAR SPAN POLE (D).

UTILITY ENGINEERS CONSULTED DURING DESIGN: AT&T: REPRESENTATIVE MIKE BRECHER PHONE: (203) 238-5201. U.I.: REPRESENTATIVE DOMINIC YACOBINO PHONE: (203) 499-5977.

ESTIMATED LOAD ON UTILITY POLES: U.I. #3217: 2,674lbs.

SPAN ATTACHMENT ON U.I. 3217 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

(H) INSTALL CAST IRON HANDHOLE COVER.

PRE-EMPTION NOTES

INSTALL AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

STATE FORCES 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.

RELAY THE BRICK WALK WHERE DISTURBED BY INSTALLATION OF SPAN POLES, HANDHOLES OR CONDUIT ETC. TAKE SPECIAL CARE NOT TO DAMAGE BRICKS SO THAT THEY ARE AVAILABLE FOR RE-USE.

CONTRACTOR TO ERADICATE AND INSTALL PAVEMENT MARKINGS AS INDICATED BELOW:

- INSTALL ALL NEW STOP BARS
- INSTALL NEW CROSSWALK 8' - 16" BARS, 16" SPACES ON WESTERN LEG OF MADISON AVENUE
- INSTALL 195 FT. OF 4" DOUBLE YELLOW CENTER LINE ON NORTHERN LEG OF ROUTE 1
- INSTALL 240 FT. OF 4" DOUBLE YELLOW CENTER LINE ON SOUTHERN LEG OF ROUTE 1
- INSTALL 8 FT. OF 4" DOUBLE YELLOW CENTER LINE ON EASTERN LEG OF MADISON AVENUE
- INSTALL 445 FT. OF 4" SINGLE WHITE EDGE LINE ON NORTHBOUND ROUTE 1
- INSTALL 435 FT. OF 4" SINGLE WHITE EDGE LINE ON SOUTHBOUND ROUTE 1
- INSTALL 50 FT. OF 4" SINGLE WHITE LANE LINE ON SOUTHBOUND ROUTE 1
- INSTALL 60 FT. OF 4" SINGLE WHITE LANE LINE ON NORTHBOUND ROUTE 1

ERADICATE EXISTING SOUTHBOUND ROUTE 1 STOP BAR (20 SQ. FT.)

ERADICATE EXISTING CROSSWALK ON WESTERN LEG OF MADISON AVENUE (165 SQ. FT.)

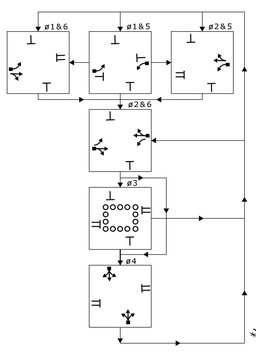
ERADICATE EXISTING 4" DOUBLE YELLOW CENTER LINE ON NORTHERN LEG OF ROUTE 1 (200 FT.)

ERADICATE EXISTING 4" DOUBLE YELLOW CENTER LINE ON SOUTHERN LEG OF ROUTE 1 (235 FT.)

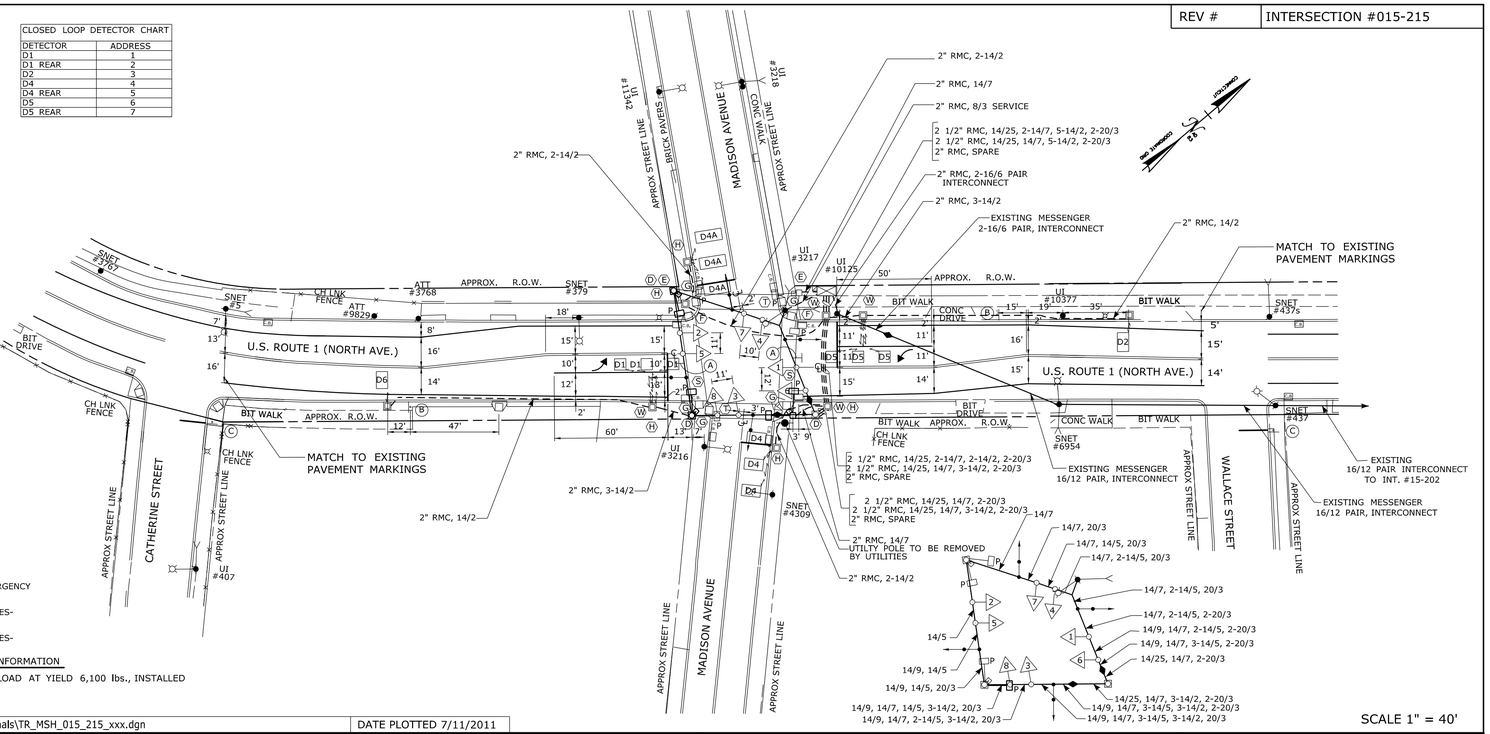
ERADICATE EXISTING EASTBOUND MADISON AVENUE STOP BAR (20 SQ. FT.)

ERADICATE EXISTING 4" DOUBLE YELLOW CENTER LINE ON WESTERN LEG OF MADISON AVENUE (10 FT.)

ERADICATE EXISTING WESTBOUND MADISON AVENUE STOP BAR (15 SQ. FT.)



CLOSED LOOP DETECTOR CHART	
DETECTOR	ADDRESS
D1	1
D1 REAR	2
D2	3
D4	4
D4 REAR	5
D5	6
D5 REAR	7



REV #	INTERSECTION #015-215

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

\\sh3dgs18\CTDOT_projects\170_2275_2007\Traffic\Signals\TR_MSH_015_215_xxx.dgn DATE PLOTTED 7/11/2011

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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : MJC

DESIGNED BY :

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF BRIDGEPORT
U.S. ROUTE 1 (NORTH AVE.)
AT MADISON AVE.

OFFICE OF ENGINEERING

TOWN: CITY OF BRIDGEPORT

DRAWING TITLE: TRAFFIC CONTOL SIGNAL PLAN

PROJECT NO. 173-403

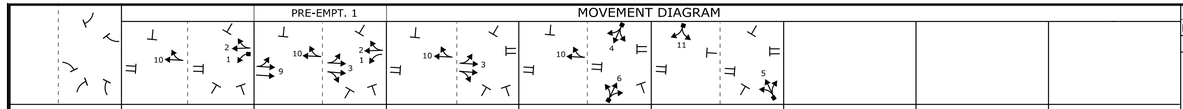
DRAWING NO. TCS-2

SHEET NO. 03.3

REV #

INTERSECTION # 015-215

MOVEMENT DIAGRAM

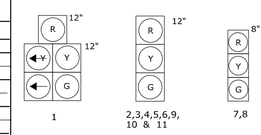


NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE # 1	Y	◄G	◄Y	G	G	Y	R	R	R	R	R	R	R	R	R	R									
2	Y	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R									
3	Y	R	R	R	G	G	G	G	Y	R	R	R	R	R	R	R									
4	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R									
5	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R									
6	R	R	R	R	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									
9	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R									
10	Y	G	G	G	G	G	G	G	G (1)	G (2)	G	Y	R	R	R	R									
11	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R									
INTERVALS: MIN GRN		5			15			1			7			5											
WALK														19											
PED CLR														1											
VEH EXT		2									2			2											
MAX 1		12			19			1			17			10											
MAX 2		5			23			1			20			10											
YELLOW			3			3			3			3			3										
RED				0			0.1			1			3			3									
ADD INIT																									
MAX INIT																									
TBR																									
TTR																									
MIN GAP																									
MODE		NON-LOCK			MIN RECALL			MAX RECALL			NON-LOCK			NON-LOCK			OFF			OFF			OFF		
INT START					THIS PHASE																				

ENERGY BY	CITY
MAINT LEVEL	1
METERED SERVICE	
ADDRESS #	
SERVICE POLE	UI 3771

INTERSECTION # 015-271

SIGNAL FACES



FACES 4,5,6,7 AND 8 TO HAVE TUNNEL VISORS.
FACE 7 TO HAVE 5-VANE LEFT CUT-OFF LOUVERS.
FACE 8 TO HAVE 5-VANE RIGHT CUT-OFF LOUVERS.
ALL INDICATIONS TO HAVE LED LAMPS.

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.	0
HOLD GREEN	15
HOLD YELLOW	3
HOLD RED	0.1
HOLD PHASE	2
EXIT PHASE	3
EXIT CALL	NONE

OFFICE RECORD
REVISION #
STC # 15-1105-04 SM # N/A
SIGNAL REVISED:
REPLACED ALL SIGNAL EQUIPMENT, REVISED LANE USE CONTROL ON ROUTE 1 AND INSTALLED PRE-EMPTION UNDER PROJECT #173-403.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF BRIDGEPORT
U.S. ROUTE 1 (NORTH AVE)
AT DEWEY STREET, HOWARD AVE
AND BRIARWOOD AVE

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER	FLK	10/09	ZRC	4/11
DRAWN BY	MJC	10/09	JMF	4/11
CHECKED BY	JPO	5/11	MRM	4/11
SUBMITTED BY	JPO	5/11	LNC	5/11
APPROVED BY				
DATE	7/13/11		7/13/11	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6' x 6'	3	PRESENCE
D4	10' X 6'	3	PRESENCE
D4A	14' x 6'	3	PRESENCE
D5	6' x 6'	3	PRESENCE
D5A	14' x 6'	3	PRESENCE
SD1	6' x 6'	3	PRESENCE
SD2	6' x 6'	3	PRESENCE

PROGRAM / COORDINATION TYPE -CLOSED LOOP-TRANSYT (3)

FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	SEC / %
FLASH	FUTURE													
MAX 1	ALL OTHER TIMES	DAILY												
MAX 2	FUTURE													
PATTERN 1	0600-0900	M-F	75"	25	33	14/19	22/29	6/8	18/24	15/20				
PATTERN 2	0900-1500 0900-1800 1000-1800	M-F SAT SUN	75"	30	40	8/11	26/35	6/8	20/27	15/20				
PATTERN 3	ALL OTHER TIMES	DAILY	65"	15		8/12	24/37	6/9	15/23	12/19				
PATTERN 4	1900-2300 1800-2200	M-F SAT	75"	35	47	8/11	26/34	6/8	20/27	15/20				
PATTERN 4	0700-0900 1600-2000	SAT SUN	75"	35	47	8/11	26/34	6/8	20/27	15/20				
PATTERN 5	1500-1900	M-F	75"	35	47	8/11	26/34	6/8	20/27	15/20				

PERMIS PERIOD Ø	SEC

SYSTEM LOC MASTER
15-212
50-210
15-271
15-211
15-213
15-351
15-214
15-357

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
TIMINGS SHOWN INDICATE FREE OPERATION, ACTUAL TIMINGS TO BE DETERMINED BY CLOSED LOOP LOCAL COORDINATION UNIT.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
PHASE 3 ALWAYS TO FOLLOW PHASE 2.
PHASE 2 ON TO OMIT PHASE 1.
SIGNAL MAY DOUBLE CYCLE IF PEDESTRIAN TIMING CALLED.
PEDESTRIAN ACTUATION TO CALL PHASE 5.
(1) TO BE "Y" IF PHASE 5 IS NEXT.
(2) TO BE "R" IF PHASE 5 IS NEXT.

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

DIVISION OF TRAFFIC ENGINEERING CADD

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

(J) INSTALL TYPE 2 SIDEWALK RAMP PER SPECIAL PROVISION AND DETAIL SHEET.

(K) INSTALL SPAN POLE FOUNDATION IN WALK AT BACK EDGE.

(L) CONSTRUCT SIDEWALK BETWEEN RAMP AND EXISTING SIDEWALK.

(M) INSTALL TYPE 4b SIDEWALK RAMP PER SPECIAL PROVISION AND DETAIL SHEET.

(N) TRIM TREE CANOPY TO PROVIDE A MINIMUM OF 215' ADVANCE SIGNAL VISIBILITY DISTANCE.

REMOVE SCHOOL CROSSING SIGNS ON ROUTE 1 NORTHBOUND AND BRIARWOOD AVE. APPROACHES.

INSTALL PAVEMENT MARKINGS ON ROUTE 1 AS SHOWN.

(O) RECONSTRUCT SIDEWALK ON NORTHWEST CORNER OF ROUTE 1 AT BRIARWOOD AVE. TO PROVIDE PATH OF NOT LESS THAN 3'.

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

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL STATE FURNISHED CONTROLLER AND CABINET ON TYPE IV FOUNDATION.

CABINET DOOR TO OPEN STREET SIDE.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: MIKE BRECHER PHONE: (203) 238-5201,
U.I.: DOMINIC YACOBINO PHONE: (203) 499-5977.

INSTALL R.M.C. STAND-OFFS ON UI #3771 UTILITY POLE.

(R) INSTALL 2-16/6 INTERCONNECT CABLE FROM EXISTING CABLE CLOSURE TO THE NEW CONTROLLER CABINET.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT (860)258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

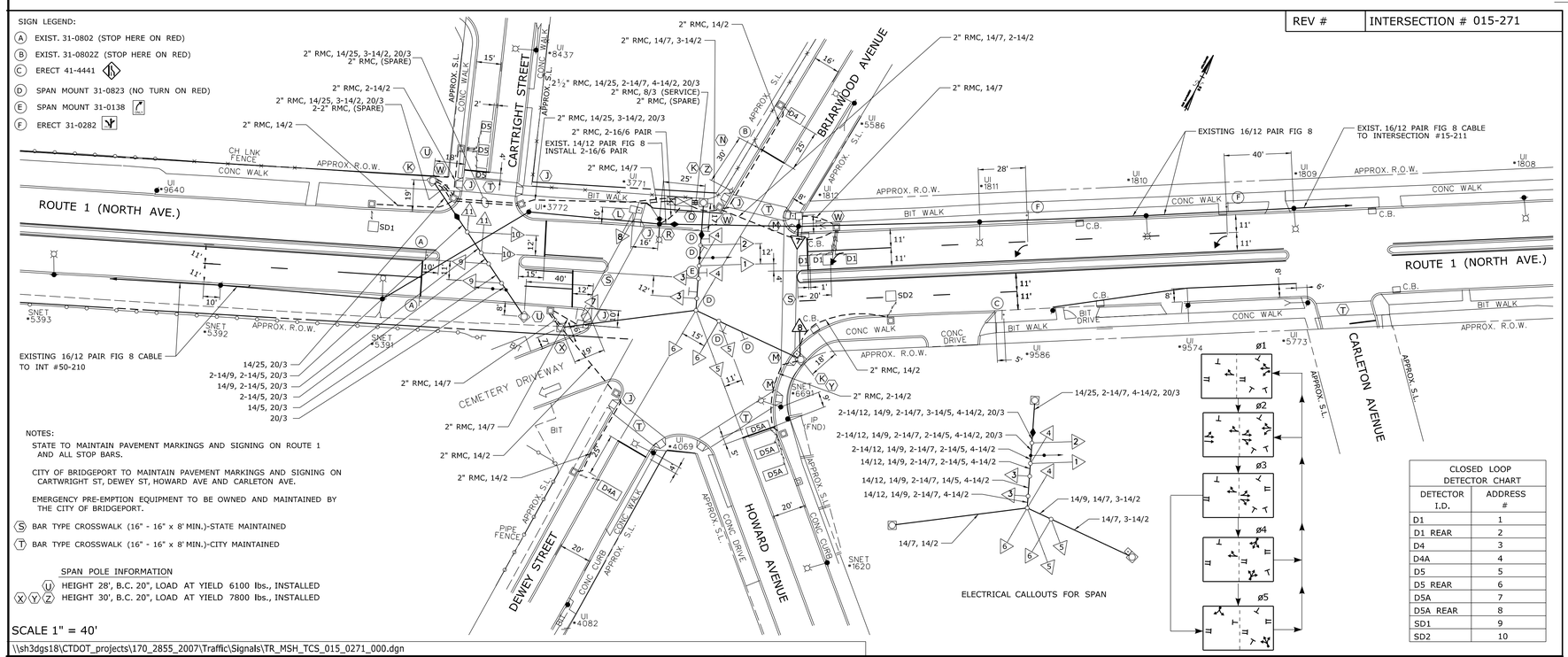
PRE-EMPTION NOTES

INSTALL AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

STATE FORCES 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.

SIGN LEGEND:
(A) EXIST. 31-0802 (STOP HERE ON RED)
(B) EXIST. 31-0802Z (STOP HERE ON RED)
(C) ERECT 41-4441
(D) SPAN MOUNT 31-0823 (NO TURN ON RED)
(E) SPAN MOUNT 31-0138
(F) ERECT 31-0282



NOTES:
STATE TO MAINTAIN PAVEMENT MARKINGS AND SIGNING ON ROUTE 1 AND ALL STOP BARS.
CITY OF BRIDGEPORT TO MAINTAIN PAVEMENT MARKINGS AND SIGNING ON CARTWRIGHT ST, DEWEY ST, HOWARD AVE AND CARLETON AVE.
EMERGENCY PRE-EMPTION EQUIPMENT TO BE OWNED AND MAINTAINED BY THE CITY OF BRIDGEPORT.
(S) BAR TYPE CROSSWALK (16" - 16" x 8' MIN.)-STATE MAINTAINED
(T) BAR TYPE CROSSWALK (16" - 16" x 8' MIN.)-CITY MAINTAINED

SPAN POLE INFORMATION
(U) HEIGHT 28', B.C. 20", LOAD AT YIELD 6100 lbs., INSTALLED
(X)(Y)(Z) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs., INSTALLED

ELECTRICAL CALLOUTS FOR SPAN

CLOSED LOOP DETECTOR CHART

DETECTOR I.D.	ADDRESS #
D1	1
D1 REAR	2
D4	3
D4A	4
D5	5
D5 REAR	6
D5A	7
D5A REAR	8
SD1	9
SD2	10

SCALE 1" = 40'

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NO.	DATE	INIT.	DESCRIPTION

REVISIONS

REV # | INTERSECTION # 015-271

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
DIRECTIONAL ARW. FOR PUSH BUTTON
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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : MJC
DESIGNED BY : FLK
DATE PLOTTED : 7/11/2011

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF BRIDGEPORT
U.S. ROUTE 1 (NORTH AVE)
AT DEWEY STREET, HOWARD AVE
AND BRIARWOOD AVE

OFFICE OF ENGINEERING

TOWN: BRIDGEPORT

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403
DRAWING NO. TCS-3
SHEET NO. 03.4

MOVEMENT DIAGRAM

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
		PRE-EMPT. 1		PRE-EMPT. 2				
NTOR								

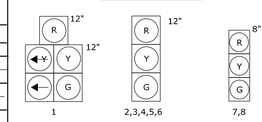
FACE #	FLASH	PHASE 1 GRN	PHASE 1 CL	PHASE 1 CL	PHASE 2 GRN	PHASE 2 CL	PHASE 2 CL	PHASE 3 GRN	PHASE 3 CL	PHASE 3 CL	PHASE 4 GRN	PHASE 4 CL	PHASE 4 CL	PHASE 5 GRN	PHASE 5 CL	PHASE 5 CL	PHASE 6 GRN	PHASE 6 CL	PHASE 6 CL	PHASE 7 GRN	PHASE 7 CL	PHASE 7 CL	PHASE 8 GRN	PHASE 8 CL	PHASE 8 CL
1	Y	◄ G	◄Y G	G	G	Y	R				R	R	R												
2	Y	R	R	R	G	Y	R				R	R	R												
3	R	R	R	R	R	R	R				G	Y	R												
4	R	R	R	R	R	R	R				G	Y	R												
5	Y	R	R	R	G	Y	R				R	R	R												
6	Y	G	G	G	G	Y	R				R	R	R												
7	R	R	R	R	R	R	R				G	Y	R												
8	R	R	R	R	R	R	R				G	Y	R												
					◄YIELD																				

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		9				
WALK				14				
PED CLR				1				
VEH EXT	2			2				
MAX 1	21	38		27				
MAX 2	14	30		22				
YELLOW	3.0	4.0		3.0				
RED	0.1	2.0		2.0				
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MAX RECALL	OFF	NON-LOCK	OFF	OFF	OFF	OFF
INT START								

ENERGY BY TOWN	ADDRESS #
MAINT LEVEL 5	SERVICE POLE SNET 5416
METERED SERVICE	

INTERSECTION # 015-278

SIGNAL FACES



ALL INDICATIONS TO 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.	NONE	NONE
HOLD GREEN	15	15
HOLD YELLOW	4	3
HOLD RED	2	2
HOLD PHASE	2	4
EXIT PHASE	4	1
EXIT CALL	NONE	NONE

OFFICE RECORD
REVISION #
STC # 015-1104-01 SM # N/A
SIGNAL REVISED :
REPLACED SIGNAL EQUIPMENT AND REVISED LANE-USE CONTROLS.
ADDED PRE-EMPTION UNDER PROJECT 173-403.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF BRIDGEPORT
ROUTE 127 (EAST MAIN ST) AT
BROADBRIDGE RD.

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	CRB	4/11	ZRC	5/11
DRAWN BY	MJC	4/11	MJC	5/11
CHECKED BY	GMG	5/11	MRM	5/11
SUBMITTED BY	MFM	6/11	LNC	5/11
APPROVED BY				
DATE	7/13/11		7/13/11	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6' x 6'	3	PRESENCE
D4	6' x 6'	3	PRESENCE
D4A	12' x 6'	3	PRESENCE

PROGRAM

FUNCTION	T I M E	DAYS
FLASH	NONE	
MAX 1	1600-1900 0700-0900	M-F
MAX 2	ALL OTHER TIMES	
CYCLE 1	1600-1900 0700-0900	M-F
CYCLE 2	ALL OTHER TIMES	
FREE	2300 - 0500	DAILY

COORDINATION TYPE - TC/TBC

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	SEC / %
100"	45	45									
80"	73	91									

PERMIS PERIOD Ø	SEC

SYSTEM LOC MASTER
144-202
015-278

TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

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

DIVISION OF TRAFFIC ENGINEERING CADD

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

CABINET DOOR TO OPEN STREET SIDE.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE Ⓢ (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE Ⓣ. TWIST LOOP DETECTOR SAWCUT SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: REPRESENTATIVE MICHAEL BRECHER PHONE: (203) 238-5201,
U.I.: REPRESENTATIVE DOMINIC YACOBINO PHONE: (203) 499-5977.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

Ⓩ INSTALL TYPE 2 PERPENDICULAR SIDEWALK RAMP.

PRE-EMPTION NOTES

INSTALL AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

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.

CONTRACTOR TO ERADICATE AND INSTALL PAVEMENT MARKINGS AS INDICATED BELOW:

- ERADICATE THE LANE LINE AND 475' OF EDGE LINE ON THE EAST SIDE OF ROUTE 127 ON THE SOUTH LEG OF THE INTERSECTION.
- ERADICATE 160' OF EDGE LINE ON THE EAST SIDE OF ROUTE 127 ON THE NORTH LEG OF THE INTERSECTION.
- INSTALL ALL STOP BARS AS SHOWN.
- INSTALL 50' OF WHITE EDGE LINE ON NORTH LEG OF ROUTE 127 AS SHOWN.
- INSTALL NEW EDGE LINE ON THE EAST SIDE OF ROUTE 127 ON THE SOUTH LEG OF THE INTERSECTION AS SHOWN.
- INSTALL NEW EDGE LINE ON THE EAST SIDE OF ROUTE 127 ON THE NORTH LEG OF THE INTERSECTION AS SHOWN.

SIGN LEGEND

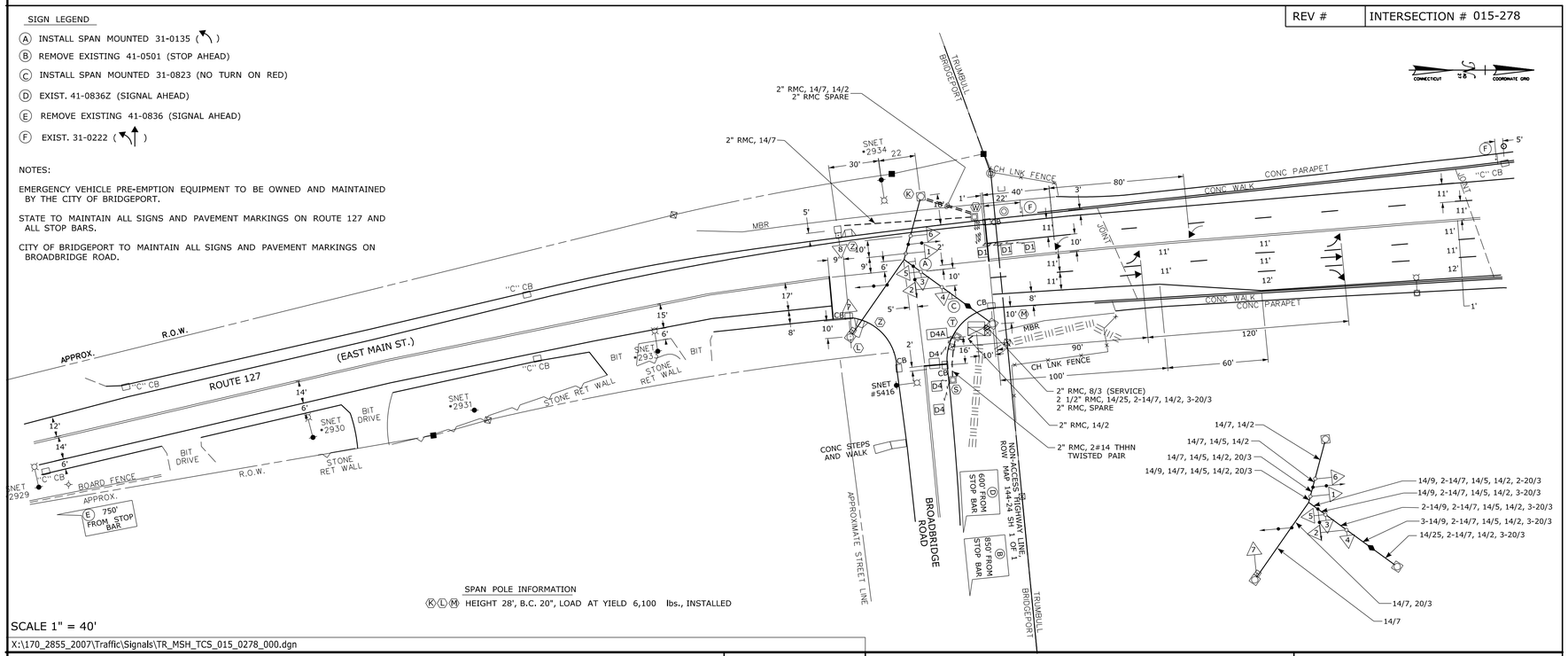
Ⓐ INSTALL SPAN MOUNTED 31-0135 ( )
Ⓑ REMOVE EXISTING 41-0501 (STOP AHEAD)
Ⓒ INSTALL SPAN MOUNTED 31-0823 (NO TURN ON RED)
Ⓓ EXIST. 41-0836Z (SIGNAL AHEAD)
Ⓔ REMOVE EXISTING 41-0836 (SIGNAL AHEAD)
Ⓕ EXIST. 31-0222 ( )

NOTES:

EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT TO BE OWNED AND MAINTAINED BY THE CITY OF BRIDGEPORT.

STATE TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON ROUTE 127 AND ALL STOP BARS.

CITY OF BRIDGEPORT TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON BROADBRIDGE ROAD.



SPAN POLE INFORMATION
ⓀⓁⓂ HEIGHT 28', B.C. 20", LOAD AT YIELD 6,100 lbs., INSTALLED

SCALE 1" = 40'

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REV #	INTERSECTION # 015-278

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

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
DIRECTIONAL ARW. FOR PUSH BUTTON
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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : GMF
DESIGNED BY : CRB
DATE PLOTTED : 7/12/2011

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF BRIDGEPORT
ROUTE 127 (EAST MAIN ST) AT
BROADBRIDGE RD.

OFFICE OF ENGINEERING

TOWN: BRIDGEPORT

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403
DRAWING NO. TCS-4
SHEET NO. 03.5

REV # | INTERSECTION # 015-278

MOVEMENT DIAGRAM

	NONE	PRE-EMPTION 1	PRE-EMPTION 2		PRE-EMPTION 3	PRE-EMPTION 2	PRE-EMPTION 1		
NTOR		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8

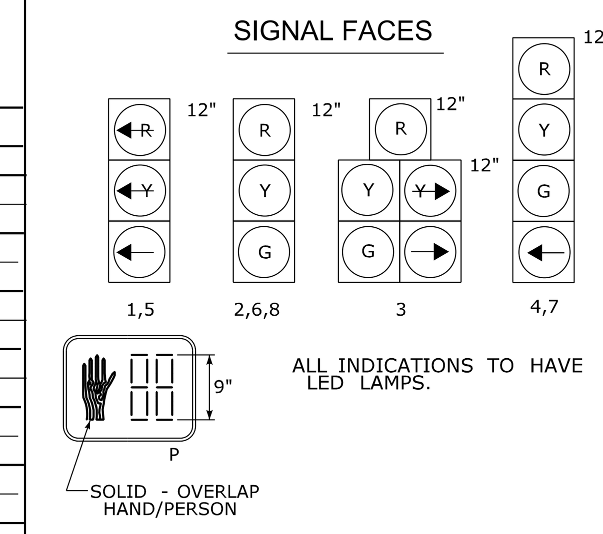
FACE #	FLASH	Ph1 GRN	Ph1 CL	Ph1 CL	Ph2 GRN	Ph2 CL	Ph2 CL	Ph3 GRN	Ph3 CL	Ph3 CL	Ph4 GRN	Ph4 CL	Ph4 CL	Ph5 GRN	Ph5 CL	Ph5 CL	Ph6 GRN	Ph6 CL	Ph6 CL	Ph7 GRN	Ph7 CL	Ph7 CL	Ph8 GRN	Ph8 CL	Ph8 CL
1	◄R	←	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R			
2	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			
3	Y	R	R	R	R	R	R	R	R	R	R→	R Y→	R	R	R	R	G	Y→ ①	R→ ②	R	R	R			
4	R	R	R	R	R	R	R	R	R	R	←G	Y	R	R	R	R	R	R	R	R	R	R			
5	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	←	◄Y	◄R	◄R	◄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	R	R	R			
7	R	R	R	R	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	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R			
9	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R			
P	OFF	◄ DW					►	WØ	◄					DW								►			

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		9	5	15	5	
WALK			7					
PED CLR			20 ③ COUNTDOWN PEDESTRIAN SIGNAL					
VEH EXT	1.5	2.5		2	1.5	2.5	2	
MAX 1	15	35		25	15	35	10	
MAX 2	15	35		25	15	35	10	
YELLOW	3.0	4.5	4.0	3.0	3.0	4.5	3.0	
RED	2	1.1	0	3.0	2	1.1	1.5	
ADD INIT		1.0				1.0		
MAX INIT		23				23		
TBR								
TTR								
MIN GAP		2.5				2.5		
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MIN RECALL	NON-LOCK	OFF
INT START		THIS PHASE				THIS PHASE		

ENERGY BY STATE	ADDRESS #
MAINT LEVEL 1	SERVICE POLE UI 1418
METERED SERVICE	

INTERSECTION # 43-209

SIGNAL FACES



PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT
ALT. PED. CLR.	20	20	20
HOLD GREEN	15	15	15
HOLD YELLOW	3.0	3.0	3.0
HOLD RED	2.0	2.0	3.0
HOLD PHASE	1&6	2&5	4
EXIT PHASE	2&6	2&6	2&6
EXIT CALL	NONE	NONE	NONE

OFFICE RECORD
REVISION #

STC # 43-1103-05 SM # N/A
SIGNAL REVISED :
REPLACED ALL SIGNAL EQUIPMENT, REVISED PHASING, ADDED EXCLUSIVE PED PHASE; REVISED TO FREE OPERATION UNDER PROJECT #173-403.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF EAST HAVEN
U.S. ROUTE 1 (SALTONSTALL PARKWAY)
AT ESTELLE ROAD AND
ROUTE 142 (HEMINGWAY AVE.)

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	CAW	3/11	ZRC	4/11
DRAWN BY	JMF	3/11	ZRC	4/11
CHECKED BY	KAL	3/11	MRM	5/11
SUBMITTED BY	JPO	5/11	LNC	5/11
APPROVED BY	[signature]		[signature]	
DATE	7/13/11		7/13/11	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6' x 6'	3	PRESENCE
D2	6' x 6'	4	PRESENCE
D2B	9' x 6'	4	PRESENCE
D2C	9' x 6'	3	PRESENCE
D4	6' x 6'	3	PRESENCE
D4A	9' x 6'	3	8" DELAY
D4B	6' x 6'	3	PRESENCE
D5	6' x 6'	3	PRESENCE
D2A, D6C, D6A	6' x 6'	3	PRESENCE
D6, D6B	6' x 6'	4	PRESENCE
D7	6' x 6'	3	PRESENCE
D7A	9' x 6'	3	8" DELAY

PROGRAM

FUNCTION	TIME	DAYS
FLASH	NONE	
MAX 1	ALL TIMES	DAILY
MAX 2	FUTURE	
FREE	ALL TIMES	DAILY

COORDINATION TYPE -CLOSED LOOP

CYCLE	OFFSET SEC	OFFSET %	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD Ø	SEC	SYSTEM LOC MASTER
													043-209
													043-203

(PHASE SPLITS SEC / %)

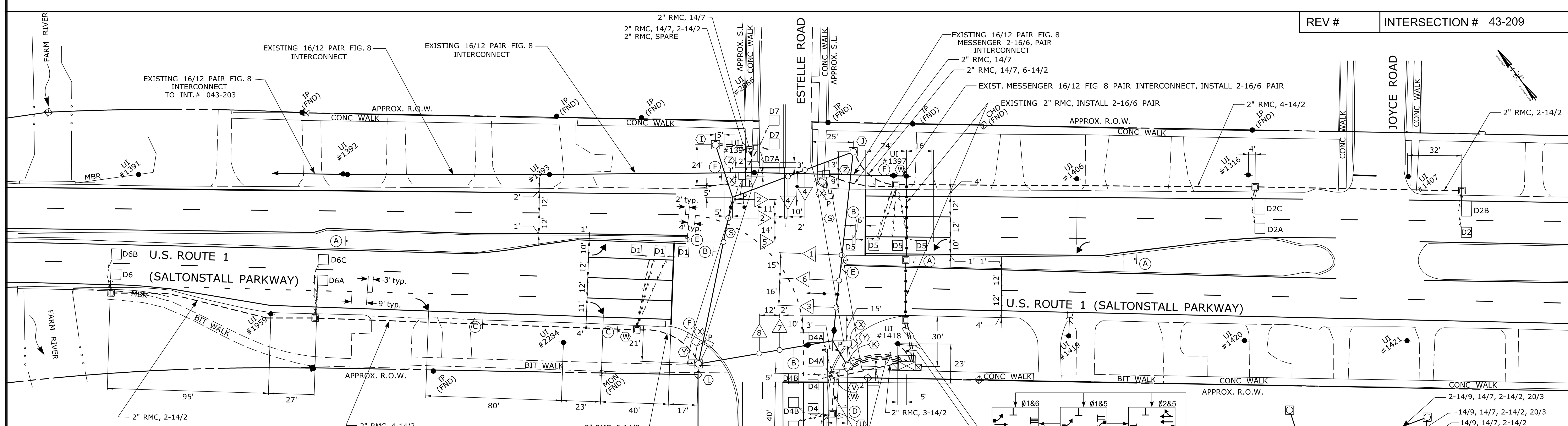
TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
① TO BE Y IF PHASE 4 IS SKIPPED.
② TO BE R IF PHASE 4 IS SKIPPED.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
③ COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL.
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CLEARANCE INTERVAL.

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

DIVISION OF TRAFFIC ENGINEERING CADD

REV #	INTERSECTION # 43-209



NOTES :

Ⓢ BAR TYPE CROSSWALK (24" - 24" x 8' MIN) STATE MAINTAINED

STATE TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON U.S. ROUTE 1 AND ROUTE 142 AND ALL STOP BARS.

TOWN TO MAINTAIN CENTER LINE ON ESTELLE ROAD.

EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT TO BE OWNED AND MAINTAINED BY THE TOWN OF EAST HAVEN.

SIGN LEGEND :

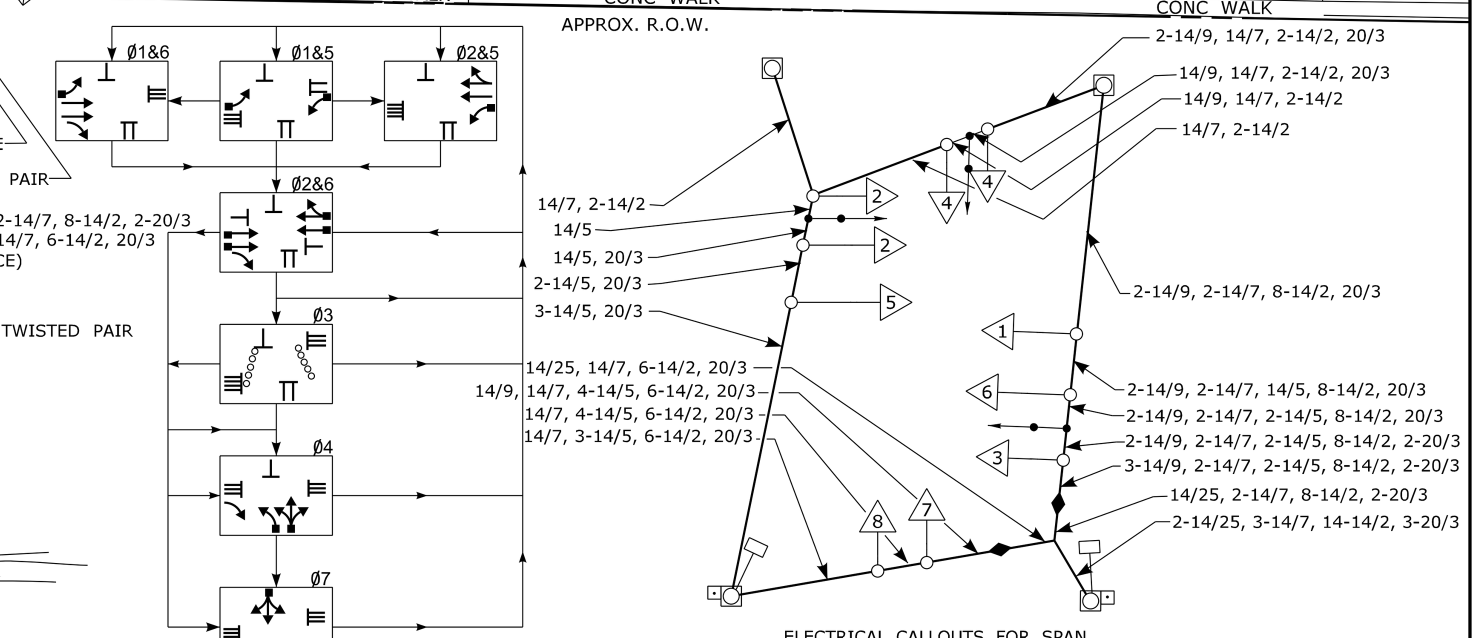
Ⓐ EXIST. 31-0117 (LEFT LANE MUST TURN LEFT)
Ⓑ SPAN MOUNT 31-0135 (↰)
Ⓒ EXIST. 31-0118 (RIGHT LANE MUST TURN RIGHT)
Ⓓ EXIST. 31-0279 ( )
Ⓔ INSTALL 31-1526 (KEEP RIGHT SYMBOL)
Ⓕ REMOVE 41-2111 (SCHOOL SYMBOL)

SPAN POLE INFORMATION

ⒾⒿⓀⓁ HEIGHT 30', B.C. 20", LOAD AT YIELD 7,800 lbs.; INSTALLED

CLOSED LOOP DETECTOR CHART

DETECTOR I.D.	DETECTOR #
D1 FRONT	1
D1 REAR	9
D2, D2B	2
D2A, D2C	10
D4A, D4 FRONT	4
D4 REAR	11
D4B FRONT	8
D4B REAR	12
D5 FRONT	5
D5 REAR	13
D6, D6B	6
D6A, D6C	14
D7A, D7 FRONT	7
D7 REAR	3



SCALE 1" = 40'

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DATE PLOTTED 7/11/2011

○ 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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : JMF
DESIGNED BY :

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF EAST HAVEN
U.S. ROUTE 1 (SALSTONSTALL PARKWAY)
AT ESTELLE ROAD AND
ROUTE 142 (HEMINGWAY AVE.)

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

CENTER LOOP DETECTORS IN LANE.

Ⓧ INSTALL TYPE 4A SIDEWALK RAMPS PER SPECIAL PROVISIONS.

Ⓩ INSTALL NEW PEDESTAL FOUNDATION, PEDESTAL AND PUSH BUTTON ADJACENT TO SIDEWALK AS SHOWN.

Ⓨ INSTALL 5' WIDE CONCRETE SIDEWALK EXTENSION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL STATE FURNISHED CABINET ON A TYPE IV CONTROLLER FOUNDATION. CABINET DOOR TO OPEN STREET SIDE.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE Ⓤ (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE Ⓥ . TWIST LOOP DETECTOR SAWCUT SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL LOOP DETECTORS 8' APART UNLESS OTHERWISE SPECIFIED.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: MIKE BRECHER PHONE: (203) 271-4763,
U.I.: DOMINIC YACOBINO PHONE: (203) 499-5977.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

Ⓚ THIS SPANPOLE WILL REQUIRE TWO WEATHER HEADS FOR THE TRAFFIC SIGNAL CABLES. BOTH SHOULD BE $2\frac{1}{2}$" ENTRANCE FITTINGS.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

INSTALL NEW AUXILIARY TERMINATION CABINET ON NEW CONTROLLER CABINET AND RELOCATE EXISTING TELEPHONE SERVICE.

CONTRACTOR TO INSTALL SIGN #31-0845 AT PEDESTRIAN PUSH BUTTON LOCATIONS.

PRE-EMPTION NOTES

RELOCATE EXISTING PRE-EMPTION EQUIPMENT. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS.

RELOCATE AUXILIARY EQUIPMENT CABINET FROM EXISTING CONTROLLER CABINET TO NEW CONTROLLER CABINET.

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

RELOCATE EXISTING OPTICAL DETECTORS ONTO NEW SPAN.

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.

CONTRACTOR TO ERADICATE AND INSTALL PAVEMENT MARKINGS AS INDICATED BELOW :

- INSTALL ALL STOP BARS AS SHOWN.
- ERADICATE EDGE LINE ON SOUTH SIDE OF U.S. ROUTE 1 WEST OF ROUTE 142 AND INSTALL NEW EDGE LINE AS SHOWN.
- INSTALL 3' DOTTED EXTENSION LINES FOR THE EASTBOUND U.S. ROUTE 1 RIGHT TURN LANE AS SHOWN.
- ERADICATE ALL PAVEMENT MARKING ARROWS AND INSTALL NEW PAVEMENT MARKING ARROWS AS SHOWN.
- ERADICATE CROSSWALKS ON U.S. ROUTE 1 AND INSTALL NEW CROSSWALKS AS SHOWN.
- INSTALL 50' DYCL ON ESTELLE ROAD AS SHOWN.

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

REV #
INTERSECTION # 43-209

OFFICE OF ENGINEERING

TOWN: EAST HAVEN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 43-209
DRAWING NO. TCS-5
SHEET NO. 03.6

MOVEMENT DIAGRAM

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

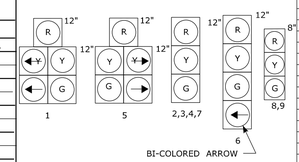
FACE #	FLASH	PHASE 1 GRN	PHASE 1 CL	PHASE 1 CL	PHASE 2 GRN	PHASE 2 CL	PHASE 2 CL	PHASE 3 GRN	PHASE 3 CL	PHASE 3 CL	PHASE 4 GRN	PHASE 4 CL	PHASE 4 CL	PHASE 5 GRN	PHASE 5 CL	PHASE 5 CL	PHASE 6 GRN	PHASE 6 CL	PHASE 6 CL	PHASE 7 GRN	PHASE 7 CL	PHASE 7 CL	PHASE 8 GRN	PHASE 8 CL	PHASE 8 CL
1	Y	←G	◄Y G	G	G	Y	R				R	R	R												
2	Y	G	G	G	G	Y	R				R	R	R												
3	Y	R	R	R	G	Y	R				R	R	R												
4	R	R	R	R	R	R	R				G	Y	R												
5	R	R→	R Y►	R	R	R	R				G→	Y→	R→												
6	Y	←G	◄Y G	G	G	Y	R				R	R	R												
7	R	R	R	R	R	R	R				G	Y	R												
8	R	R	R	R	R	R	R				G	Y	R												
9	R	R	R	R	R	R	R				G	Y	R												

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		7				
WALK				14				
PED CLR				1				
VEH EXT		1.5		1.5				
MAX 1	7	40		20				
MAX 2	10	40		20				
YELLOW	3.0	4.3		3.2				
RED	1.0	1.7		0.5				
ADD INIT		0.8						
MAX INIT		21						
TBR								
TTR								
MIN GAP		1.5						
MODE	MAX RECALL	MIN RECALL	OFF	NON-LOCK	OFF	OFF	OFF	OFF
INT START		THIS PHASE						

ENERGY BY TOWN	ADDRESS #
MAINT LEVEL 5	SERVICE POLE SNET 6952
METERED SERVICE	

INTERSECTION # 043-238

SIGNAL FACES



SIGNAL FACES No. 1,2,6,7 & 8 TO HAVE TUNNEL VISORS.

ALL INDICATIONS HAVE LED LAMPS.

SIGNAL FACE No. 8 TO HAVE 7 VANE STRAIGHT LOUVERS ON ALL LENSES.

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.	NO
HOLD GREEN	15
HOLD YELLOW	3
HOLD RED	1
HOLD PHASE	1
EXIT PHASE	2
EXIT CALL	NONE

OFFICE RECORD

STC # 043-1004-01 SM # N/A
SIGNAL IN OPERATION:
SIGNAL INSTALLED UNDER PROJECT 173-403.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF EAST HAVEN
ROUTE 100 (NORTH HIGH STREET)
AT MILL STREET

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	PIO	6/10	ZRC	4/11
DRAWN BY	MJC	6/10	JMF	4/11
CHECKED BY	MFM	6/10	MRM	4/11
SUBMITTED BY	MFM	6/10	LNC	5/11
APPROVED BY				
DATE	7/13/11		7/13/11	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2	6' X 6'	4	1.0" EXTEND
D2A	6' X 6'	3	1.0" EXTEND
D2B	6' X 6'	3	1.0" EXTEND
D2C	6' X 6'	4	1.0" EXTEND
D2D	6' X 8'	3	PRESENCE
D4	6' X 6'	3	PRESENCE
D4A	6' X 6'	3	8" DELAY

PROGRAM

FUNCTION	TIME	DAYS
FLASH	2200-0600	DAILY
MAX 1	ALL OTHER TIMES	
MAX 2	0600-0900 1500-1800	M-F

COORDINATION TYPE -NONE

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

PERMIS PERIOD Ø	SEC

SYSTEM LOC MASTER

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
PHASE 2 ON TO OMIT PHASE 1
PHASE 1 TO ALWAYS PRECEDE PHASE 2
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

LEGEND:

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

DIVISION OF TRAFFIC ENGINEERING CADD

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

(H) TYPE 4C SIDEWALK RAMP. RECONSTRUCT AND INSTALL 95 FEET OF 5 FOOT WIDE SIDEWALK TO SIDEWALK RAMP. MAXIMUM SLOPE TO BE 5%.

(E) INSTALL SIGN No. 41-0820 (NEW SIGNAL IN OPERATION) SIGNS ON BOTH APPROACHES OF ROUTE 100 AS SHOWN. WHEN THE SIGNAL IS PUT ON COLORS CONTRACTOR TO REMOVE SIGNS (41-0820) AFTER 14 CALENDAR DAYS FROM DATE SIGNAL IS PLACED IN NORMAL OPERATION.

EXCEPT FOR TEST PURPOSES, KEEP SIGNALS BAGGED PRIOR TO THE FUNCTIONAL INSPECTION (FORM 816 SECT. 10.10.10). SIGNAL MAY BE PLACED IN FLASHING OPERATION NO MORE THAN 7 DAYS PRIOR TO PLACING IN NORMAL OPERATION.

REMOVE EXISTING STOP SIGNS ON MILL ST. WHEN SIGNAL IS PLACED IN NORMAL OPERATION.

INSTALL SIGNS (A) 41-0836, AND (B) 31-1526.

(D) REMOVE EXISTING SIGN

(I) TYPE 2 SIDEWALK RAMP. INSTALL 15 FEET OF 5 FOOT WIDE SIDEWALK TO THE RAMP.

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

INSTALL 8 PHASE CONTROLLER AND TYPE D CABINET ON A TYPE IV FOUNDATION.

CABINET DOOR TO OPEN STREET SIDE.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE (X) (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE (Y). TWIST LOOP DETECTOR SAWCUT SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

INSTALL R.M.C. STAND-OFFS ON SNET #186 & SNET #6952 UTILITY POLES.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: MIKE BRECHER PHONE: (203) 271-4763,
UI: DOMINIC YACOBINO PHONE: (203) 499-5977.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

PRE-EMPTION NOTES:

INSTALL AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

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.

CONTRACTOR TO ERADICATE AND INSTALL PAVEMENT MARKINGS AS INDICATED BELOW:

- ERADICATE ALL CONFLICTING CENTERLINES ON ROUTE 100 WHICH EXTEND BEYOND STOP BARS.
- INSTALL LANE LINE ON MILL ST. AS SHOWN.
- INSTALL STOP BARS AS SHOWN.
- INSTALL D.Y.C.L., YELLOW SKIP LINES (2' STRIPE, 4' SPACE) ON ROUTE 100 WITHIN THE INTERSECTION AS SHOWN.

SIGN LEGEND:

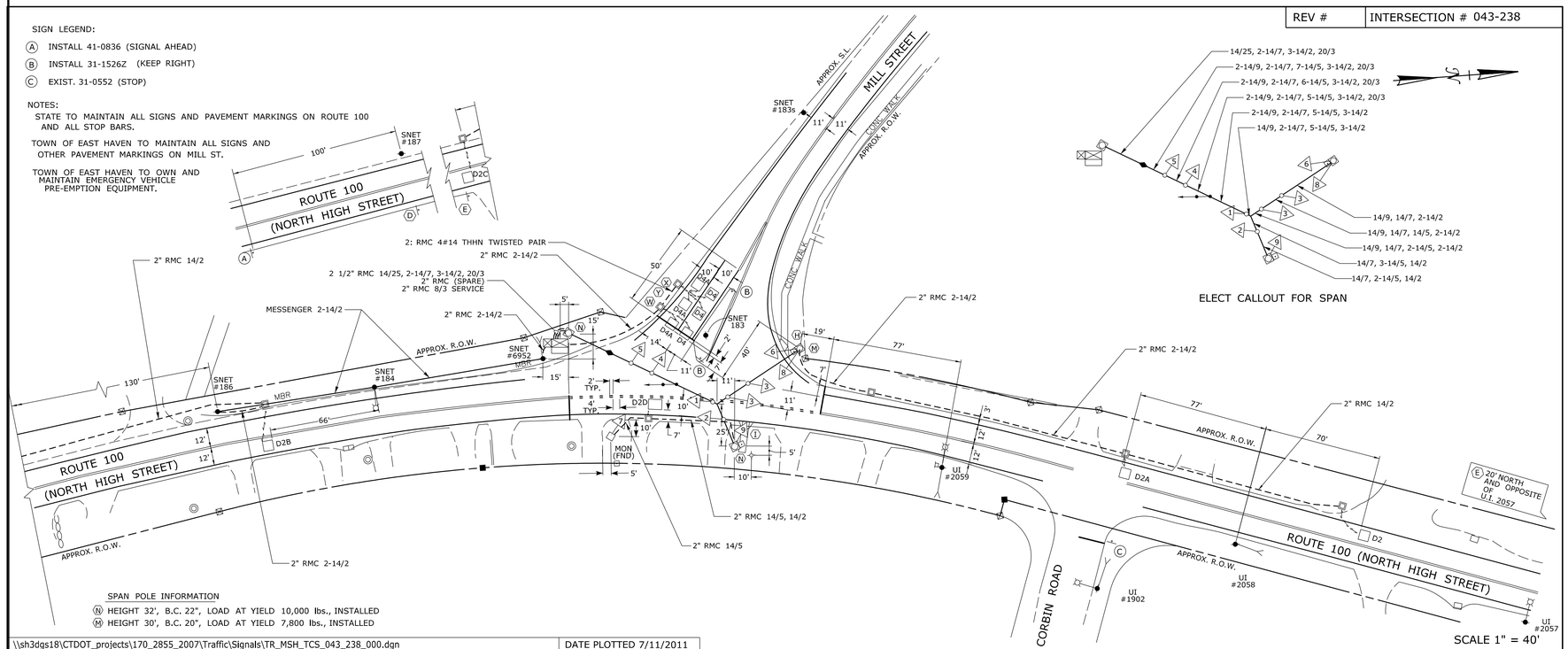
(A) INSTALL 41-0836 (SIGNAL AHEAD)
(B) INSTALL 31-1526Z (KEEP RIGHT)
(C) EXIST. 31-0552 (STOP)

NOTES:

STATE TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON ROUTE 100 AND ALL STOP BARS.

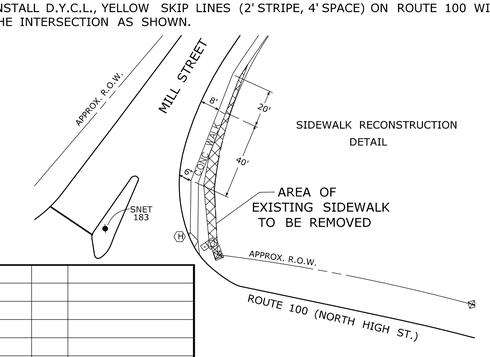
TOWN OF EAST HAVEN TO MAINTAIN ALL SIGNS AND OTHER PAVEMENT MARKINGS ON MILL ST.

TOWN OF EAST HAVEN TO OWN AND MAINTAIN EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT.



SPAN POLE INFORMATION
(N) HEIGHT 32', B.C. 22", LOAD AT YIELD 10,000 lbs., INSTALLED
(M) HEIGHT 30', B.C. 20", LOAD AT YIELD 7,800 lbs., INSTALLED

ELECT CALLOUT FOR SPAN



SIDEWALK RECONSTRUCTION DETAIL

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

REV #	INTERSECTION # 043-238

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DATE PLOTTED 7/11/2011

SCALE 1" = 40'

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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : JMF

DESIGNED BY :

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF EAST HAVEN
ROUTE 100 (NORTH HIGH STREET)
AT MILL STREET

OFFICE OF ENGINEERING

TOWN: EAST HAVEN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403

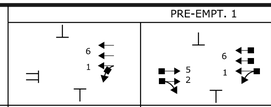
DRAWING NO. TCS - 6

SHEET NO. 03.7

REV # | INTERSECTION # 043-238

MOVEMENT DIAGRAM

PRE-EMPT. 1

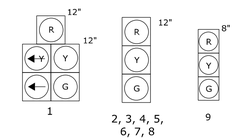


NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE # 1	Y	◄G	◄Y G	G	G	Y	R				R	R	R												
2	Y	R	R	R	G	Y	R				R	R	R												
3	R	R	R	R	R	R	R				G	Y	R												
4	R	R	R	R	R	R	R				G	Y	R												
5	Y	R	R	R	G	Y	R				R	R	R												
6	Y	G	G	G	G	Y	R				R	R	R												
7	R	R	R	R	R	R	R				G	Y	R												
8	R	R	R	R	R	R	R				G	Y	R												
9	R	R	R	R	R	R	R				G	Y	R												
INTERVALS MIN GRN		5			17						9														
WALK											26														
PED CLR											1														
VEH EXT		1.5			2.5						1.5														
MAX 1		10			53						27														
MAX 2		10			53						27														
YELLOW			3.0			3.9						3.0													
RED				0.1			1.8						2.1												
ADD INIT																									
MAX INIT																									
TBR																									
TTR																									
MIN GAP																									
MODE		MIN RECALL			MIN RECALL			OFF			NON-LOCK			OFF			OFF			OFF			OFF		
INT START					THIS PHASE																				

ENERGY BY	CITY	ADDRESS #	
MAINT LEVEL	1	SERVICE POLE	SNET# 644
METERED SERVICE			

INTERSECTION # 083-225

SIGNAL FACES



ALL INDICATIONS HAVE LED LAMPS.

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.	0
HOLD GREEN	15
HOLD YELLOW	3.9
HOLD RED	1.8
HOLD PHASE	2
EXIT PHASE	4
EXIT CALL	NONE

OFFICE RECORD

STC # 083-1011-01 SM # N/A

SIGNAL REVISED:
REPLACED SIGNAL EQUIPMENT UNDER PROJECT 173-403.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF MILFORD
U.S. ROUTE 1 (BOSTON POST RD.) AT
I-95 N.B. OFF-RAMP
AND HOME ACRES AVENUE

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER	REB	4/11	ZRC	4/11
DRAWN BY	MJC	4/11	BTB	4/11
CHECKED BY	GMG	6/11	MRM	4/11
SUBMITTED BY	MFM	6/11	LNC	5/11
APPROVED BY				
DATE	7/13/11		7/13/11	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	22' X 6'	3	PRESENCE
D2	6' X 6'	3	PRESENCE
D2A	6' X 6'	4	PRESENCE
D2B	6' X 6'	4	PRESENCE
D2C	6' X 6'	3	PRESENCE
D4	8' X 6'	3	PRESENCE
D4A	9' X 6'	3	PRESENCE
D4B	11' X 6'	3	PRESENCE
D4C	11' X 6'	3	PRESENCE
D4D	15' X 6'	3	PRESENCE
D4E	20' X 6'	3	PRESENCE
SD1,SD2,SD3	6' X 6'	3	PRESENCE

PROGRAM FUNCTION	TIME	DAYS
FLASH	FUTURE	
MAX 1	ALL OTHER TIMES	
MAX 2	2400-0600	DAILY
PATTERN1	0630-0900 1500-1900	M-F
	0800-1900 0900-1900	SAT SUN
PATTERN2	ALL OTHER TIMES	
FREE	2400-0600	DAILY

COORDINATION TYPE -CLOSED LOOP

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD Ø	SEC
70"	45	64	10 / 14	40 / 57		20 / 29						
70"	45	64	10 / 14	40 / 57		20 / 29						
60"	45	75	10 / 17	32 / 53		18 / 30						

SYSTEM LOC MASTER
083-225
083-221
083-250

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
DETECTOR D1 TO ONLY EXTEND PHASE 1.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
PEDESTRIAN ACTUATION MAY CAUSE SIGNAL TO DOUBLE CYCLE.
TIMINGS SHOWN INDICATE FREE OPERATION. ACTUAL TIMINGS TO BE DETERMINED BY COORDINATION PROGRAM.
ARTERY PHASE LOOPS TO BE NON-ACTUATING DURING COORDINATION.
D2 & D2A TO EXTEND PHASE 2 ONLY.

LEGEND:

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

DIVISION OF TRAFFIC ENGINEERING CADD

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: MIKE BRECHER PHONE: (203) 271-4763 U.I.: DOMINIC YACOBINO PHONE: (203) 499-5977.

INSTALL STATE FURNISHED CONTROLLER AND CABINET ON TYPE IV FOUNDATION.

CABINET DOOR TO OPEN STREET SIDE.

LOOP DETECTORS TO BE CENTERED IN LANE AND 8' APART UNLESS OTHERWISE NOTED.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

INSTALL SYSTEM DETECTORS IN CENTER OF LANE. CONTRACTOR TO FIELD LOCATE PRIOR TO INSTALLATION.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

INSTALL TWO NEW 16/6 PAIR FROM EXISTING INTERCONNECT CABLE CLOSURE AS SHOWN.

(G) INSTALL SPAN POLE WITH PEDESTRIAN BUTTON IN SOUTHWEST CORNER ADJACENT TO EXISTING SPAN POLE

(H) INSTALL SPAN POLE ADJACENT TO AND WITHIN RIGHT OF WAY.

(J) EXISTING SPAN POLE TO BE REMOVED PRIOR TO CONSTRUCTION OF SIDEWALK RAMP

(K) INSTALL PARALLEL SIDEWALK RAMPS (TYPE 1)

(L) INSTALL PERPENDICULAR SIDEWALK RAMP (TYPE 2)

(M) INSTALL DIAGONAL SIDEWALK RAMP (TYPE 4C)

(N) INSTALL PEDESTRIAN PUSH BUTTON PEDESTAL AT BACK EDGE OF EXISTING SIDEWALK ADJACENT TO AND WITHIN RIGHT OF WAY.

(O) INSTALL 115 SQUARE FEET OF SIDEWALK TO MEET WITH THE EXISTING SIDEWALK AT THE EDGE OF ROUTE 1. (Fig. 2)

(P) EXTEND SIDEWALK TO COVER THE 52 SQUARE FEET OF GRASS AREA LOCATED IN FRONT OF EXISTING SIDEWALK. (Fig. 1)

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT (860)258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

INSTALL NEW AUXILIARY TERMINATION CABINET ON NEW CONTROLLER CABINET AND RELOCATE EXISTING TELEPHONE SERVICE.

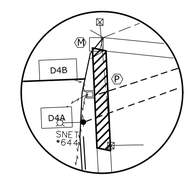


Fig. 1

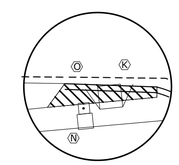


Fig. 2

PRE-EMPTION NOTES

RELOCATE EXISTING PRE-EMPTION EQUIPMENT. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS.

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

RELOCATE AUXILIARY EQUIPMENT CABINET FROM EXISTING CONTROLLER CABINET TO NEW CONTROLLER CABINET.

RELOCATE EXISTING OPTICAL DETECTORS ONTO NEW SPAN.

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.

CONTRACTOR TO INSTALL PAVEMENT MARKINGS AS NOTED BELOW:

- 75 FEET OF DYCL NORTH OF STOP BAR ON HOME ACRES AVENUE
- ALL STOP BARS AS SHOWN
- REMOVE EXISTING STOP BAR ON HOME ACRES AVENUE
- PAINT WHITE EDGE LINE ON WEST LEG OF ROUTE 1 WITHIN LIMITS OF PLAN. (265 L.F E.B. AND 280 L.F. W.B.)

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

REV # | INTERSECTION # 083-225

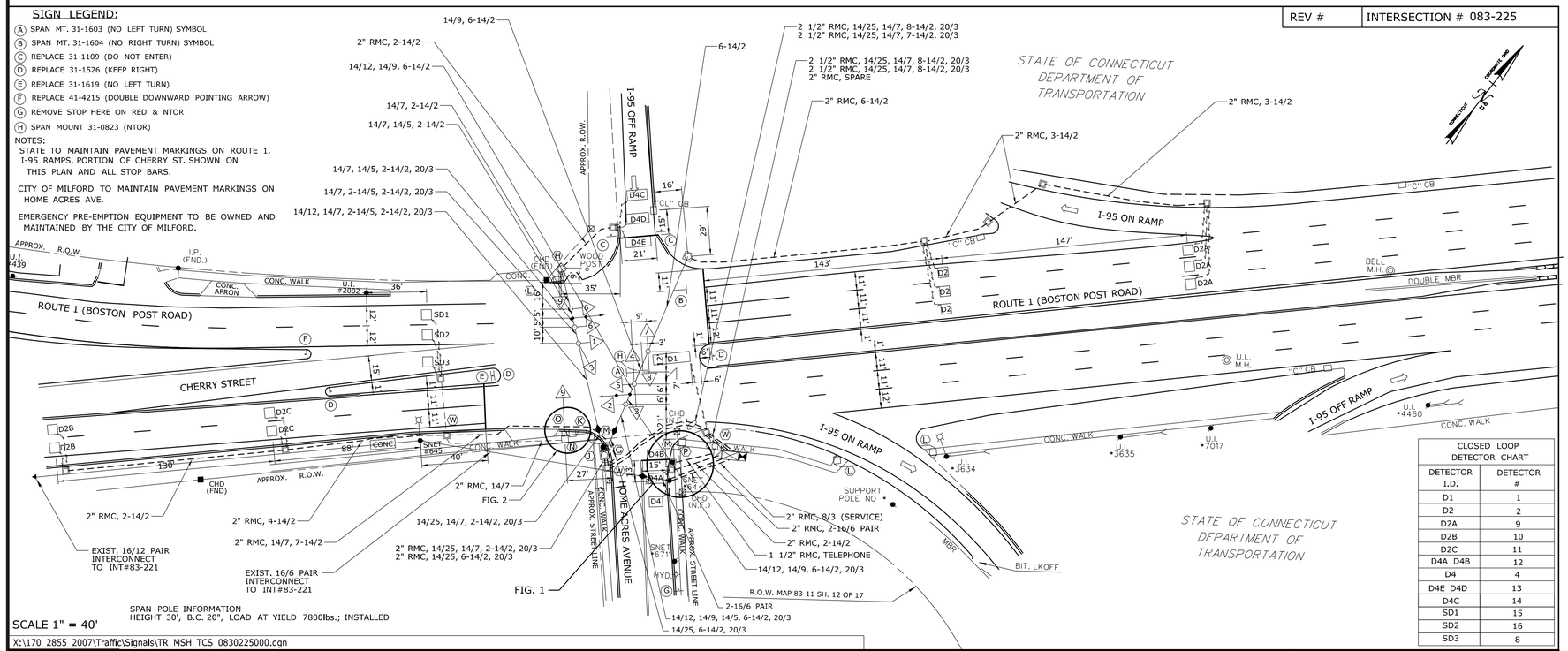
SIGN LEGEND:

(A) SPAN MT. 31-1603 (NO LEFT TURN) SYMBOL
(B) SPAN MT. 31-1604 (NO RIGHT TURN) SYMBOL
(C) REPLACE 31-1109 (DO NOT ENTER)
(D) REPLACE 31-1526 (KEEP RIGHT)
(E) REPLACE 31-1619 (NO LEFT TURN)
(F) REPLACE 41-4215 (DOUBLE DOWNWARD POINTING ARROW)
(G) REMOVE STOP HERE ON RED & NTOR
(H) SPAN MOUNT 31-0823 (NTOR)

NOTES:
STATE TO MAINTAIN PAVEMENT MARKINGS ON ROUTE 1, I-95 RAMPS, PORTION OF CHERRY ST. SHOWN ON THIS PLAN AND ALL STOP BARS.

CITY OF MILFORD TO MAINTAIN PAVEMENT MARKINGS ON HOME ACRES AVE.

EMERGENCY PRE-EMPTION EQUIPMENT TO BE OWNED AND MAINTAINED BY THE CITY OF MILFORD.



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CLOSED LOOP DETECTOR CHART

DETECTOR I.D.	DETECTOR #
D1	1
D2	2
D2A	9
D2B	10
D2C	11
D4A D4B	12
D4	4
D4E D4D	13
D4C	14
SD1	15
SD2	16
SD3	8

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
DIRECTIONAL ARW. FOR PUSH BUTTON
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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : MJC
DESIGNED BY : REB
DATE PLOTTED : 7/11/2011

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF MILFORD
U.S. ROUTE 1 (BOSTON POST RD.) AT
I-95 N.B. OFF-RAMP AND
HOME ACRES AVENUE

OFFICE OF ENGINEERING

TOWN: MILFORD

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403
DRAWING NO. TCS-7
SHEET NO. 03.8

REV #
INTERSECTION # 083-225

MOVEMENT DIAGRAM

NONE	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
		PRE-EMPT. 1						

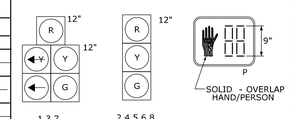
FACE #	FLASH	PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	Y	◄G	◄Y G	G	G	Y	R	R	R	R	R	R	R	R	R	R				R	R	R	R	R	R
2	Y	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R				R	R	R	R	R	R
3	R	R	R	R	R	R	R	◄R	◄Y R	R	R	R	R	R	R	R				R	R	R	G	Y	R
4	R	R	R	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	R	R	R	R	R				R	R	R	R	R	R
6	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R				R	R	R	R	R	R
7	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R				◄R	◄Y R	R	R	R	R
8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				R	R	R	G	Y	R
P	OFF	◄						DW					►	WØ	◄			DW	►						

INTERVALS	PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
MIN GRN	5			15			5			7									5			7		
WALK													7											
PED CLR													16	① COUNTDOWN PEDESTRIAN SIGNAL										
VEH EXT				2.6			1.0			1.0									1.0			1.0		
MAX 1	8			40			10			20									10			20		
MAX 2	8			40			10			20									10			20		
YELLOW		3.0			4.2			3			3.2			4.0						3			3.2	
RED			0.1			2.1			0.1			1.7			0.1						0.1			1.7
ADD INIT				0.8																				
MAX INIT				21																				
TBR																								
TTR																								
MIN GAP				2.6																				
MODE	MAX RECALL			MIN RECALL			NON-LOCK			NON-LOCK			NON-LOCK			OFF			NON-LOCK			NON-LOCK		
INT START				THIS PHASE																				

ENERGY BY	TOWN	ADDRESS #	
MAINT LEVEL	1	SERVICE POLE	SNET 819
METERED SERVICE			

INTERSECTION # 100-237

SIGNAL FACES



ALL INDICATIONS HAVE LED LAMPS.

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.	16
HOLD GREEN	15
HOLD YELLOW	4.2
HOLD RED	2.1
HOLD PHASE	2
EXIT PHASE	5
EXIT CALL	NONE

OFFICE RECORD
REVISION #

STC # 100-1101-01 SM # N/A
SIGNAL REVISED:
ALL NEW SIGNAL EQUIPMENT INSTALLED AND ADDED
PRE-EMPTION UNDER PROJECT No. 173-403.

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2,A	6' X 6'	3	PRESENCE
D2D,E	6' X 6'	3	PRESENCE
D2B,C	6' X 6'	4	PRESENCE
D2F,G	6' X 6'	4	PRESENCE
D3	6' X 6'	3	PRESENCE
D4	6' X 6'	3	8" DELAY
D4A	9' X 6'	3	8" DELAY
D7	6' X 6'	3	PRESENCE
D8	6' X 6'	3	8" DELAY
D8A	9' X 6'	3	8" DELAY

PROGRAM		
FUNCTION	T I M E	DAYS
FLASH	FUTURE	
MAX 1	ALL OTHER TIMES	
MAX 2	FUTURE	

COORDINATION TYPE - NONE

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

PERMIS PERIOD	
Ø	SEC

SYSTEM LOC
MASTER

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
PHASE 1 TO PRECEDE PHASE 2
PHASE 2 ON TO OMIT PHASE 1
PHASES 3 & 7 TO DRIVE FACES 3 & 7 ◄Y AND ← ONLY.
PHASES 4 & 8 TO DRIVE FACES 3 & 7 R,Y & G
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
MANUAL AND INTERVAL ADVANCE TO BE DISABLED DURING PHASE 5 PED CLEARANCE INTERVAL.
① COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL.

LEGEND:

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

DIVISION OF TRAFFIC ENGINEERING CADD

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF NORTH HAVEN
U.S. RTE. 5 (STATE ST.) AT RTE. 22
(BISHOP ST.), RTES. 5 & 22 (BISHOP ST.)
& STATE STREET

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	PIO	1/11	ZRC	5/11
DRAWN BY	MJC	5/11	MJC	5/11
CHECKED BY	GMG	6/11	MRM	5/11
SUBMITTED BY	MFM	6/11	LNC	5/11
APPROVED BY				
DATE	7/13/11		7/13/11	

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW, EXCEPT AS NOTED.

STATE FORCES TO STAKE R.O.W. PRIOR TO EXCAVATION.

Ⓘ INSTALL TYPE 4b SIDEWALK RAMP WITHIN R.O.W..

Ⓙ INSTALL TYPE 4a SIDEWALK RAMP AND PAD TO THE PUSHBUTTON.

INSTALL SIGN Ⓒ 31-0135 ON THE SPAN WIRE AS SHOWN.

REPLACE SIGNS Ⓐ & Ⓑ 31-0282 & 31-0282Z.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

Ⓝ INSTALL NEW PEDESTRIAN SIGNALS AND 8' PEDESTAL ON EXISTING PEDESTAL FOUNDATION.

EXISTING TOWN OWNED CONTROLLER AND PEDESTAL ON SOUTHWEST CORNER OF INTERSECTION TO REMAIN.CONTRACTOR TO NOT DISTURB EQUIPMENT.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

CABINET DOOR TO OPEN STREET SIDE.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE Ⓛ (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE Ⓜ. TWIST LOOP DETECTOR SAWCUT SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: MIKE BRECHER PHONE: (203) 238-5201,
U.I.: DOMINIC YACOBINO PHONE: (203) 238-5201.

ESTIMATED LOAD ON UTILITY POLES:
SNET #819 : 1653 lbs.

SPAN ATTACHMENT ON SNET #819 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

INSTALL PEDESTRIAN PUSHBUTTON SIGNS NO. 31-0845.

PRE-EMPTION NOTES

INSTALL AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

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.

CONTRACTOR TO INSTALL PAVEMENT MARKINGS AS INDICATED BELOW:

U.S. ROUTE 5 (STATE ST.):

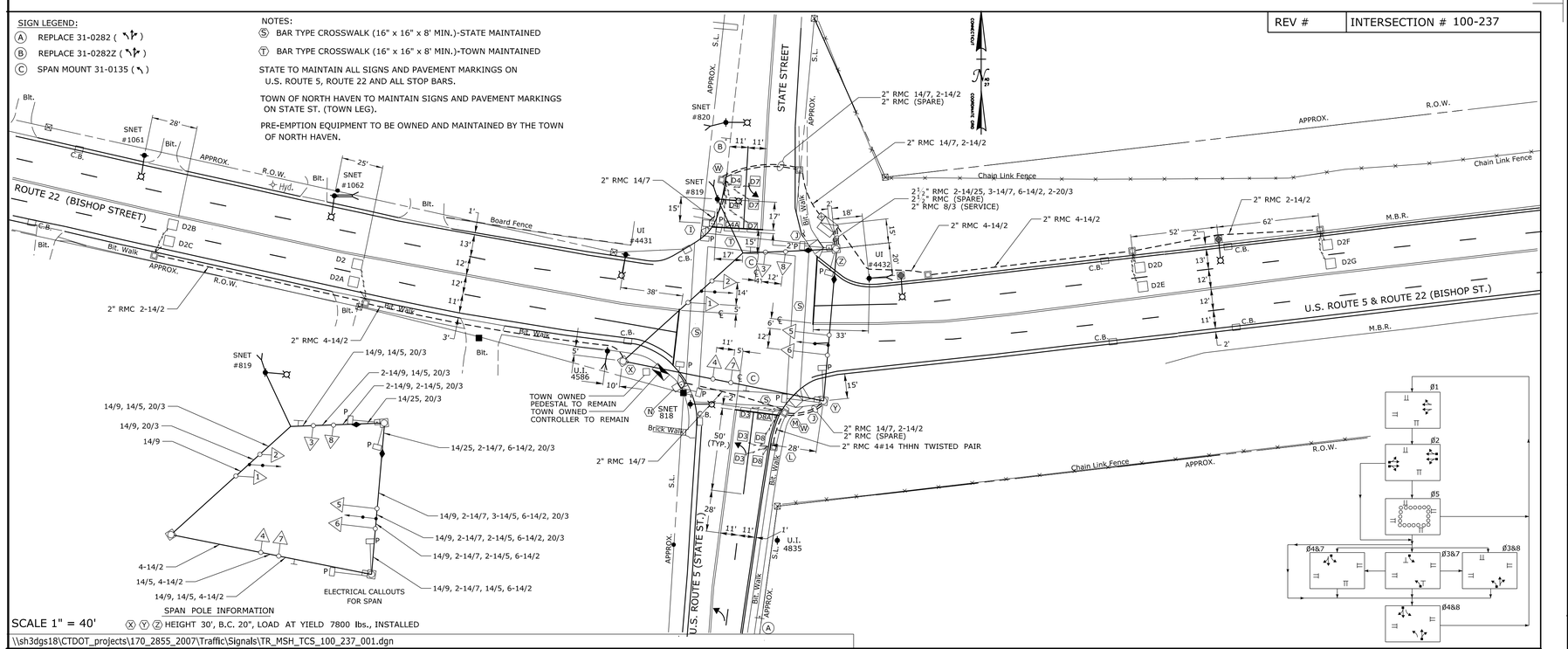
-ERADICATE 25 S.F. OF STOP BAR AND 7 S.F. OF LANE LINE
-INSTALL STOP BAR AS SHOWN.
-INSTALL (EXTEND) D.Y.C.L. 9 FT. TO THE NEW STOP BAR AS SHOWN.

ROUTE 22 (BISHOP ST.):

-ERADICATE EXCESS LANE LINE 35' ON THE WEST LEG.
-INSTALL 2 SKIP LINES IN THE ERADICATED SPACE.

SIGN LEGEND:
Ⓐ REPLACE 31-0282 ( )
Ⓑ REPLACE 31-0282Z ( )
Ⓒ SPAN MOUNT 31-0135 ( )

NOTES:
Ⓢ BAR TYPE CROSSWALK (16" x 16" x 8' MIN.)-STATE MAINTAINED
Ⓣ BAR TYPE CROSSWALK (16" x 16" x 8' MIN.)-TOWN MAINTAINED
STATE TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON U.S. ROUTE 5, ROUTE 22 AND ALL STOP BARS.
TOWN OF NORTH HAVEN TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON STATE ST. (TOWN LEG).
PRE-EMPTION EQUIPMENT TO BE OWNED AND MAINTAINED BY THE TOWN OF NORTH HAVEN.



SCALE 1" = 40'

Ⓧ Ⓨ Ⓩ HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs., INSTALLED

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EXISTING LUMINAIRE
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
DIRECTIONAL ARW. FOR PUSH BUTTON
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

REV #	INTERSECTION # 100-237

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

DRAWN BY : JMF
DESIGNED BY : PIO
DATE PLOTTED : 7/11/2011

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF NORTH HAVEN
U.S. RTE. 5 (STATE ST.) AT RTE. 22
(BISHOP ST.), RTES. 5 & 22 (BISHOP ST.)
& STATE STREET

OFFICE OF ENGINEERING

TOWN: NORTH HAVEN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403
DRAWING NO. TCS-8
SHEET NO. 03.9

REV # | INTERSECTION # 100-237

MOVEMENT DIAGRAM

PRE-EMPTION 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	GRN	CL	CL
1	Y				G	Y	R	R	R	R	R	R	R	R	R	R									
2	Y				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									
4	R				R	R	R	R	R	R	G	Y	R	R	R	R									
5	R				R	R	R	R	R	R	R	R	R	← G	Y	R									
6	R				R	R	R	R	R	R	R	R	R	G	Y	R									
P	OFF				←	DW	→	WØ	←			DW				→									

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN		18		7	7			
WALK			7					
PED CLR			11 (1) COUNTDOWN PEDESTRIAN SIGNAL					
VEH EXT		3.0		2.0	2.0			
MAX 1		30		20	15			
MAX 2		30		20	15			
YELLOW		3.6	4	3.0	3.0			
RED		2	0	1.7	1.7			
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	OFF	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	OFF	OFF	OFF
INT START		THIS PHASE						

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D2	9' x 6'	3	PRESENCE
D2A	9' x 6'	3	PRESENCE
D4	6' x 6'	3	PRESENCE
D4A	12' x 6'	3	PRESENCE
D5	6' x 6'	3	PRESENCE
D5A	8' x 6'	3	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	NONE	
MAX 1	ALL TIMES	DAILY
MAX 2	FUTURE	

COORDINATION TYPE - NONE

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

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

(1) COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL.

MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CLEARANCE INTERVAL.

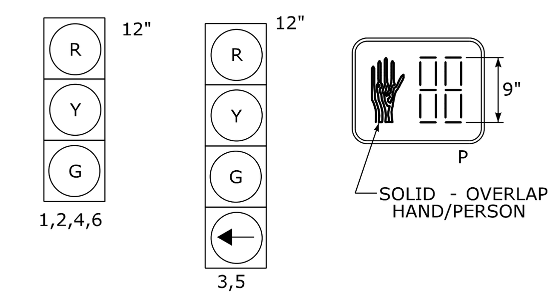
LEGEND:
R RED
Y YELLOW
G GREEN
FL. FLASHING
◄R RED ARROW
◄Y YELLOW ARROW
← GREEN ARROW
WØ WALK/ PED. CLR
D.W. DON'T WALK

DIVISION OF TRAFFIC ENGINEERING CADD

ENERGY BY CITY	ADDRESS #
MAINT LEVEL 5	SERVICE POLE 3416
UNMETERED SERVICE	

INTERSECTION # 102-221

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS.

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.	11
HOLD GREEN	15
HOLD YELLOW	3.6
HOLD RED	2.0
HOLD PHASE	2
EXIT PHASE	4
EXIT CALL	NONE

OFFICE RECORD
REVISION #

STC # 102-1012-01 SM # N/A

SIGNAL REVISED :
REPLACED ALL SIGNAL EQUIPMENT AND ADDED EMERGENCY PRE-EMPTION UNDER PROJECT 173-403

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF NORWALK
ROUTE 123 (MAIN ST.) AT
CATHERINE ST. & CENTER AVE.

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	CAW	3/11	ZRC	5/11
DRAWN BY	JMF	3/11	JMF	5/11
CHECKED BY	KAL	3/11	MRM	5/11
SUBMITTED BY	JPO	5/11	LNC	5/11
APPROVED BY	[signature]		[signature]	
DATE	7/13/11		7/13/11	

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

INSTALL PEDESTRIAN PUSHBUTTON SIGN NO. 31-0845 AT PEDESTRIAN PUSHBUTTON LOCATIONS.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

CABINET DOOR TO OPEN STREET SIDE.

(X) INSTALL SPAN POLE FOUNDATION ADJACENT TO AND WITHIN R.O.W.

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

(H) INSTALL CAST IRON HANDHOLE COVER.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE (X) (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE (Y). TWIST LOOP DETECTOR SAWCUT SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL R.M.C. STAND-OFFS ON CL&P #26295 UTLITY POLE.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: MIKE BRECHER PHONE: (203) 271-4763,
CL&P: JEFF BEXTER PHONE: (203) 845-3469.

ESTIMATED LOAD ON UTILITY POLES:
CL&P #26295: 4843 lbs.

CONTRACTOR SHALL COORDINATE THE INSTALLATION OF AN ANCHOR AND A GUY WIRE BEHIND CL&P 26295.

SPAN ATTACHMENT ON CL&P No.26295 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

PRE-EMPTION NOTES

INSTALL AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

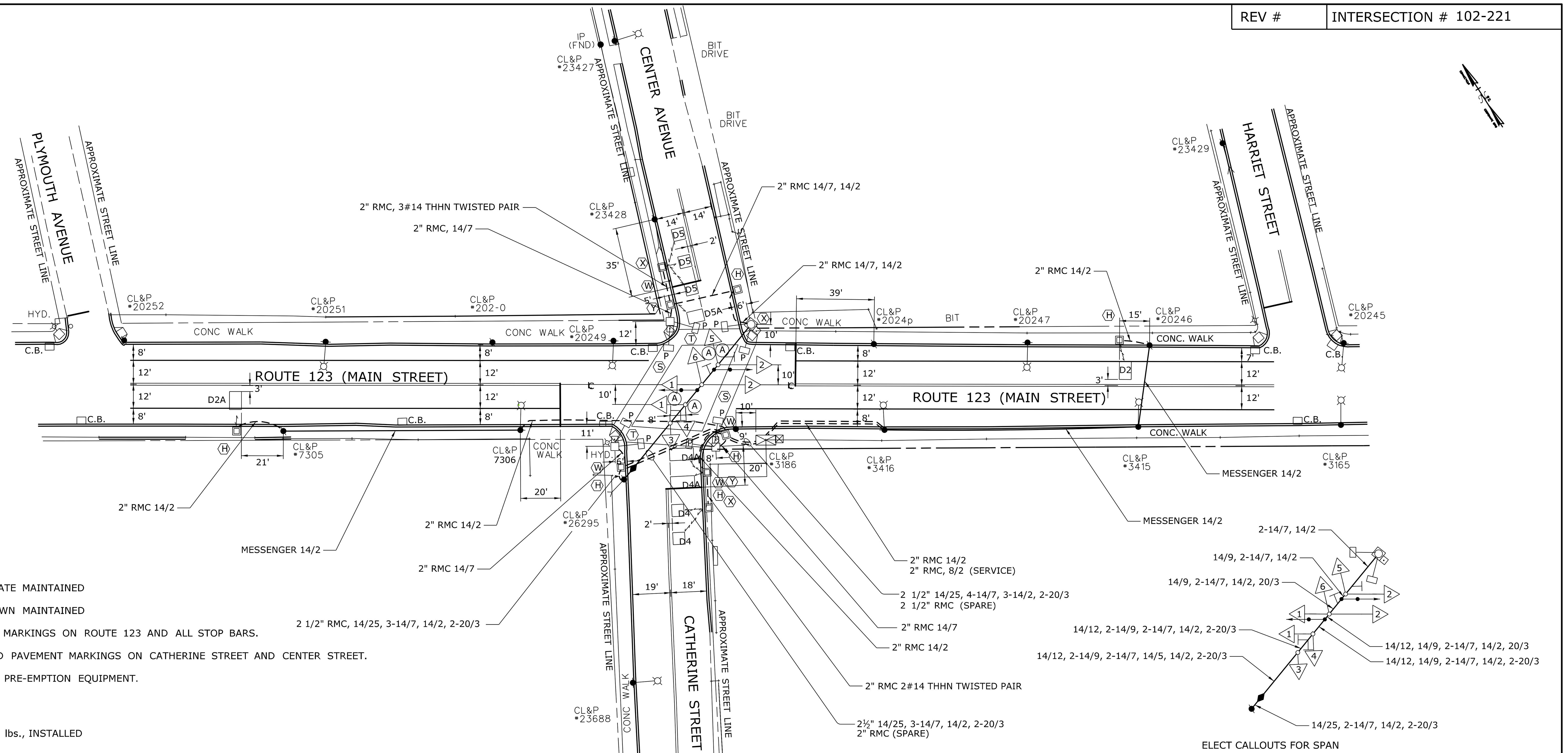
CONTRACTOR TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

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.

REV #	INTERSECTION # 102-221

SIGN LEGEND :

(A) SPAN MOUNT 31-0824 (NO TURN ON RED)



SCALE 1" = 40'

NOTES :

(S) BAR TYPE CROSSWALK (16"-16" x 8' MIN) STATE MAINTAINED

(T) BAR TYPE CROSSWALK (16"-16" x 8' MIN) TOWN MAINTAINED

STATE TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON ROUTE 123 AND ALL STOP BARS.

CITY OF NORWALK TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON CATHERINE STREET AND CENTER STREET.

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

SPAN POLE INFORMATION

HEIGHT 28', B.C. 20", LOAD AT YIELD 6,100 lbs., INSTALLED

CONTRACTOR TO ERADICATE AND INSTALL PAVEMENT MARKINGS AS INDICATED BELOW:

- ERADICATE ALL STOP BARS AND INSTALL NEW STOP BARS AS SHOWN.
- INSTALL 50' OF D.Y.C.L. ON CENTER AVENUE AND CATHERINE STREET.
- INSTALL EDGE LINES ON ROUTE 123 AS SHOWN.

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

REV #

INTERSECTION # 102-221

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DATE PLOTTED 7/11/2011

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

SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : JMF

DESIGNED BY :

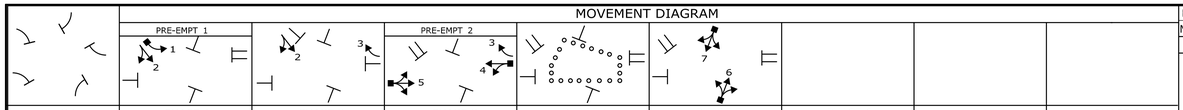
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF NORWALK
ROUTE 123 (MAIN ST.) AT
CATHERINE ST. & CENTER AVE.

OFFICE OF ENGINEERING

TOWN: NORWALK	PROJECT NO. 173-403
DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN	DRAWING NO. TCS-9
	SHEET NO. **03.10**

MOVEMENT DIAGRAM



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	◄R	←	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R									
2	R	G	G	G	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	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R									
6	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R									
7	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R									
P	OFF	←DW→									W∅	←DW→													
					←YIELD POINT																				

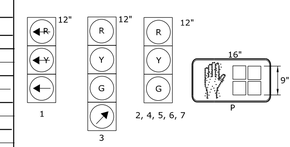
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	10	9	7	7			
WALK				7				
PED CLR				12 ①				
VEH EXT	2		2		2			
MAX 1	7	25	25		10			
MAX 2	7	25	25		10			
YELLOW	3.0	4.0	4.0	4	3.0			
RED	1.0	2.7	1.6	0	2.7			
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MAX RECALL	MIN RECALL	NON-LOCK	NON-LOCK	OFF	OFF	OFF
INT START		THIS PHASE						

COUNTDOWN PEDESTRIAN SIGNAL

ENERGY BY	TOWN	ADDRESS # 150M 151ML 152L
MAINT LEVEL	1	SERVICE POLE U.I. 2183
METERED SERVICE		

INTERSECTION # 138-202

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS

FACES 1 AND 5 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.	12	12
HOLD GREEN	15	15
HOLD YELLOW	3.0	4
HOLD RED	1.0	1.6
HOLD PHASE	1	3
EXIT PHASE	2	5
EXIT CALL	NONE	NONE

OFFICE RECORD

REVISION #

STC # N/A SM # N/A

SIGNAL REVISED

REPLACED SIGNAL EQUIPMENT UNDER PROJECT NO. 173-403.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF STRATFORD
U.S. ROUTE 1 (BARNUM AVENUE AND BOSTON AVENUE) AT BARNUM AVENUE, COLLEGE STREET AND HIGH PARK AVENUE

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY	GM2 ASSOCIATES, INC.			
APPROVED BY				
DATE	7/12/2011		7/12/2011	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6'X6'	3	PRESENCE
D3	6'X6'	3	PRESENCE
D3A	16'X6'	3	PRESENCE
D5	8'X6'	3	PRESENCE
D5A	6'X6'	3	PRESENCE
SD1	11'x6'	3	PRESENCE
SD2	12'x6'	3	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	FUTURE	
MAX 1	ALL OTHER TIMES	
MAX 2	FUTURE	
PATTERN 1	0630-0900	M-F
PATTERN 2	ALL OTHER TIMES	
PATTERN 5	1500-1830	M-F
FREE	FUTURE	

COORDINATION TYPE - CLOSED LOOP

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	SEC / % Ø	SEC
80"	50	63	11 / 14	17 / 21	16 / 20	23 / 29	13 / 16					
80"	50	63	11 / 14	17 / 21	16 / 20	23 / 29	13 / 16					
100"	0	0	11 / 11	27 / 27	26 / 26	23 / 23	13 / 13					

PERMIS PERIOD

SYSTEM LOC MASTER	TECHNICAL NOTES
	STANDARD OVERLAP SKIP FEATURES APPLY
138-202	TIMINGS SHOWN REFLECT FREE OPERATION.
138-203	ACTUAL PHASE SPLITS TO BE DETERMINED BY COORDINATION PROGRAM.
138-204	PHASE SPLITS SHOWN REFLECT PRELIMINARY COORDINATION DATA.
138-263	PRE-EMPTION EQUIPMENT TO BE INOPERATIVE DURING FLASHING OPERATION.
138-236	① COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL.
138-237	MANUAL & INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 4 PEDESTRIAN CLEARANCE
138-270	INTERVAL.

LEGEND:

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

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (CONTROLLER CABINET, PEDESTALS, AND HANDHOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL PEDESTAL FOR PEDESTRIAN PUSH BUTTON AT BACK EDGE OF WALK WITHIN R.O.W UNLESS OTHERWISE SPECIFIED.

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

CABINET DOOR TO OPEN STREET SIDE.

INSTALL STATE FURNISHED CONTROLLER AND CABINET ON A TYPE IV FOUNDATION.

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

(B) ALL HANDHOLES IN SIDEWALK SHALL HAVE CAST IRON COVERS.

INSTALL LOOP DETECTORS IN THE CENTER OF LANE AND 8 FEET APART.

INSTALL R.M.C. STAND-OFFS ON ALL UTILITY POLES.

COORDINATE AND SCHEDULE THE FOLLOWING WORK BY UTILITY COMPANIES:
TWO WEEKS PRIOR TO INSTALLATION CONTACT UNITED ILLUMINATING COMPANY REPRESENTATIVE MR. ROBERT COLLIER AT (203) 926-5234.

UNITED ILLUMINATING COMPANY TO REPLACE POLE UI #187.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO INSTALL ANCHORS BEHIND UTILITY POLES UI #187, UI #186 AND UI #2453.

ESTIMATED LOAD ON UTILITY POLES:
UI #187: 4400 lbs.
UI #186: 2200 lbs.
UI #2453: 2290 lbs.

SIGNAL SPAN TO BE ATTACHED TO ONE "EYE" BOLT ON U.I. POLE #186, U.I. POLE #187, AND U.I. POLE #2453. SEE DETAILS IN STANDARD SHEET.

(U) - PULL OFF TO BE IN LINE WITH GUY WIRE. SEE EYE BOLT AND ANCHOR INSTALLATION DETAILS IN CONNDOT STANDARD SHEETS.

2' PULL OFF AT UI #186 AND UI #187

SPAN ATTACHMENT ON U.I. POLE #186, U.I. POLE #187, AND UI POLE #2453 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN +5' FROM CURBLINE.

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

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

PRE-EMPTION CONSTRUCTION NOTES:

RELOCATE EXISTING AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF CONTROLLER CABINET.

RELOCATE EXISTING PRE-EMPTION EQUIPMENT. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. ALL NEW CABLES TO BE INSTALLED.

RELOCATE EXISTING OPTICAL DETECTORS ON TO NEW SPAN.

STATE LAB WILL 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.

(X) INSTALL SIDEWALK RAMP TYPE 1.

(Y) INSTALL SIDEWALK RAMP TYPE 4a.

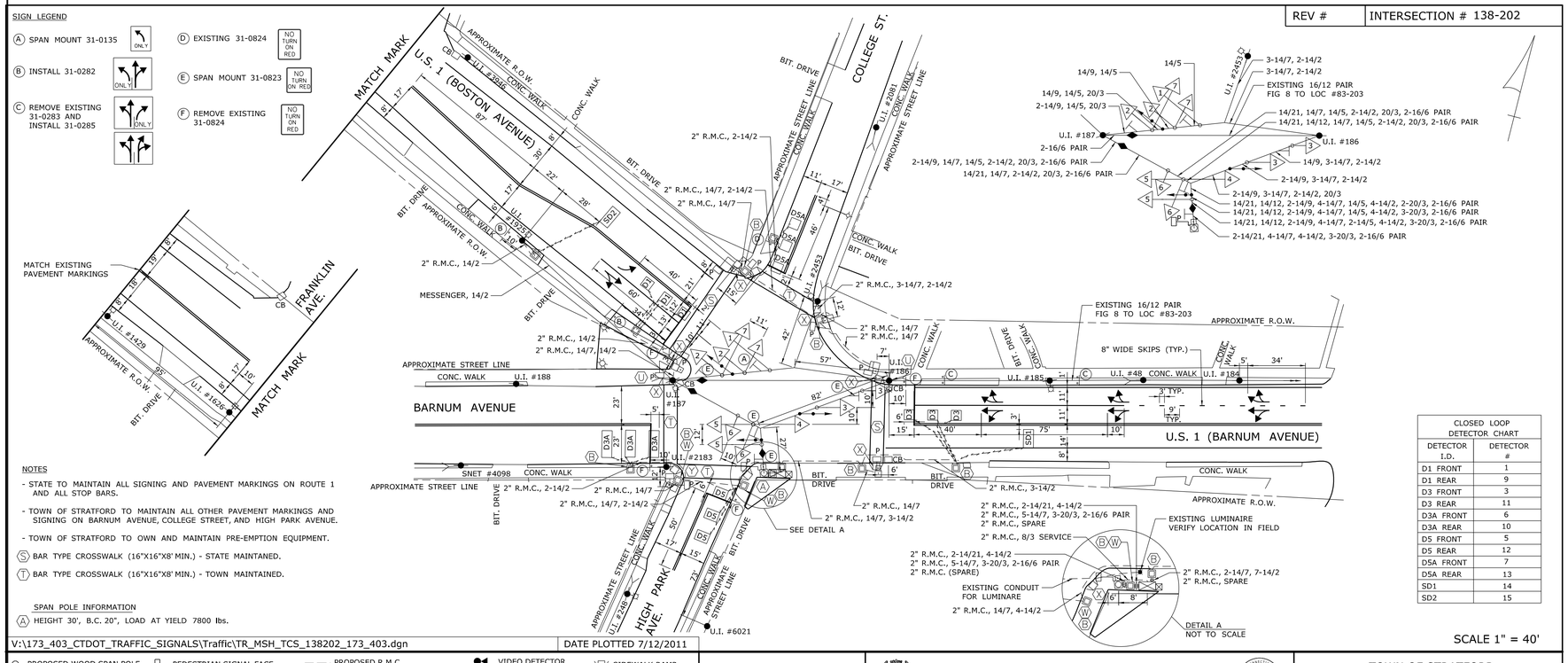
CONTRACTOR TO ERADICATE/INSTALL PAVEMENT MARKINGS AS INDICATED BELOW:
- INSTALL ALL STOP BARS AS SHOWN.
- ERADICATE ALL EXISTING PAVEMENT MARKING ON BOTH ROUTE 1 APPROACHES AND INSTALL NEW PAVEMENT MARKING AS SHOWN.
- INSTALL 50 FEET DYCL ON COLLEGE STREET, HIGH PARK AVENUE, AND BARNUM AVENUE.

NOTE:
CONTRACTOR SHOULD BE AWARE OF BURIED ELECTRICAL CONDUITS AT EACH CORNER INSTALLED FOR THE TOWN OF STRATFORD BARNUM AVENUE STREETSCAPE PROJECT NO. 138-235. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND TO CONDITION INSTALLED FOR THE BARNUM AVENUE STREETSCAPE PROJECT.

CONTRACTOR TO CONTACT TOWN OF STRATFORD FOR AS-BUILT PLANS FOR BURIED ELECTRICAL CONDUITS.

SIGN LEGEND

(A) SPAN MOUNT 31-0135
(B) INSTALL 31-0282
(C) REMOVE EXISTING 31-0283 AND INSTALL 31-0285
(D) EXISTING 31-0824
(E) SPAN MOUNT 31-0823
(F) REMOVE EXISTING 31-0824



NOTES

- STATE TO MAINTAIN ALL SIGNING AND PAVEMENT MARKINGS ON ROUTE 1 AND ALL STOP BARS.
- TOWN OF STRATFORD TO MAINTAIN ALL OTHER PAVEMENT MARKINGS AND SIGNING ON BARNUM AVENUE, COLLEGE STREET, AND HIGH PARK AVENUE.
- TOWN OF STRATFORD TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT.

(S) BAR TYPE CROSSWALK (16"X16"X8' MIN.) - STATE MAINTANED.
(T) BAR TYPE CROSSWALK (16"X16"X8' MIN.) - TOWN MAINTAINED.

SPAN POLE INFORMATION

(A) HEIGHT 30', B.C. 20', LOAD AT YIELD 7800 lbs.

CLOSED LOOP DETECTOR CHART	
DETECTOR I.D.	DETECTOR #
D1 FRONT	1
D1 REAR	9
D3 FRONT	3
D3 REAR	11
D3A FRONT	6
D3A REAR	10
D5 FRONT	5
D5 REAR	12
D5A FRONT	7
D5A REAR	13
SD1	14
SD2	15

SCALE 1" = 40'

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DATE PLOTTED 7/12/2011

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

DRAWN BY : GM2

DESIGNED BY : GM2

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF STRATFORD
U.S. ROUTE 1 (BARNUM AVENUE AND BOSTON AVENUE) AT BARNUM AVENUE, COLLEGE STREET AND HIGH PARK AVENUE

REV #	INTERSECTION # 138-202

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

TOWN: TOWN OF STRATFORD

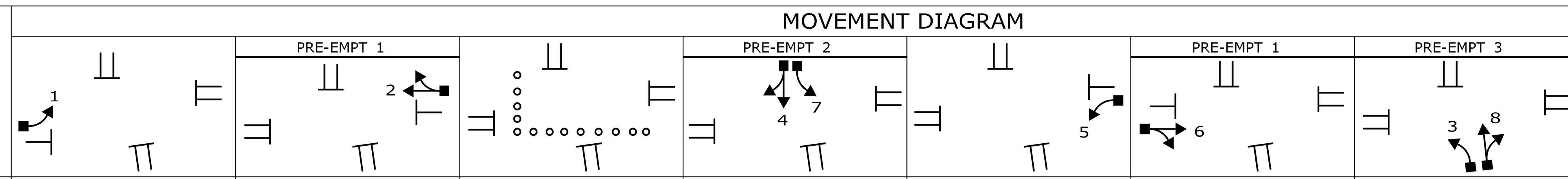
DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403

DRAWING NO. TCS-10

SHEET NO. 03.11

MOVEMENT DIAGRAM



NTOR	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
FACE # 1	◄R	←	◄Y	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R			
2	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R			
3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	← G	Y	R			
4	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R			
5	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	←	◄Y	◄R	◄R	◄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	R	R	R			
7	R	R	R	R	R	R	R	R	R	R	← G	Y	R	R	R	R	R	R	R	R	R	R			
8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R			
P	OFF	←			DW		→	WØ	←					DW								→			
						← YIELD POINT												← YIELD POINT							

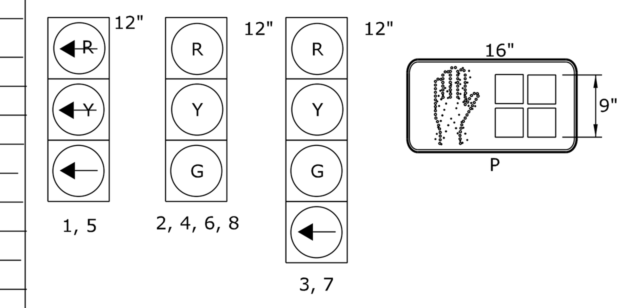
INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		7	5	15	7	
WALK			7					
PED CLR			22 ①					
VEH EXT	1.5	3.0		2	1.5	3.0	2	
MAX 1	15	35		20	15	35	20	
MAX 2	15	35		20	15	35	20	
YELLOW	3.0	3.5	4	3.0	3.0	3.5	3.0	
RED	1.0	2.3	0	2.5	1.0	2.3	2.5	
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN RECALL	NON-LOCK	NON-LOCK	NON-LOCK	MIN RECALL	NON-LOCK	OFF
INT START		THIS PHASE				THIS PHASE		

Phase 3: COUNTDOWN PEDESTRIAN SIGNAL

ENERGY BY	TOWN	ADDRESS # 156
MAINT LEVEL	5	SERVICE POLE SNET #2864
METERED SERVICE		

INTERSECTION # 138-204

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS

PRE-EMPTION SETTINGS

	PRE-EMPT 1	PRE-EMPT 2	PRE-EMPT 3
PRIORITY	NO	NO	NO
DET. LOCK	YES	YES	YES
DELAY	0	0	0
ALT. MIN. GRN	5	5	5
ALT. YELLOW	PARENT	PARENT	PARENT
ALT. RED	PARENT	PARENT	PARENT
ALT. PED. CLR.	22	22	22
HOLD GREEN	15	15	15
HOLD YELLOW	3.5	3.0	3.0
HOLD RED	2.3	2.5	2.5
HOLD PHASE	2 & 6	4	7
EXIT PHASE	4	7	1 & 5
EXIT CALL	NONE	NONE	NONE

OFFICE RECORD
REVISION #

STC # N/A SM # N/A
SIGNAL REVISED.
REPLACED SIGNAL EQUIPMENT UNDER PROJECT 173-403.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF STRATFORD
U.S. ROUTE 1 (BARNUM AVENUE)
AT
BROADBRIDGE AVE. AND ROCKWELL AVE.

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY	GM2 ASSOCIATES, INC.			
APPROVED BY				
DATE	7/12/2011		7/12/2011	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6'X6'	3	2" DELAY
D4	6'X6'	4	PRESENCE
D4A	10'X6'	3	PRESENCE
D4B	8'X6'	3	PRESENCE
D4C	6'X6'	4	PRESENCE
D5	6'X6'	3	2" DELAY
D7	6'X6'	3	PRESENCE
D7A	14'X6'	3	PRESENCE
D7B	11'X6'	3	PRESENCE
D7C	8'X6'	3	PRESENCE
D2, D6	10'X6'	3	PRESENCE
SD1, SD2	6'X6'	3	PRESENCE

PROGRAM / COORDINATION TYPE - CLOSED LOOP

FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD %	PERMIS PERIOD SEC
FLASH	FUTURE														
MAX 1	ALL OTHER TIMES														
MAX 2	FUTURE														
PATTERN 1	0630-0900	M-F	80"	14	11	12/15	29/36		25/31	12/15	29/36	14/18			
PATTERN 2	ALL OTHER TIMES		80"	14	11	12/15	29/36		25/31	12/15	29/36	14/18			
PATTERN 5	1500-1830	M-F	100"	45	45	13/13	40/40		26/26	13/13	40/40	21/21			
FREE	0000 - 0630														

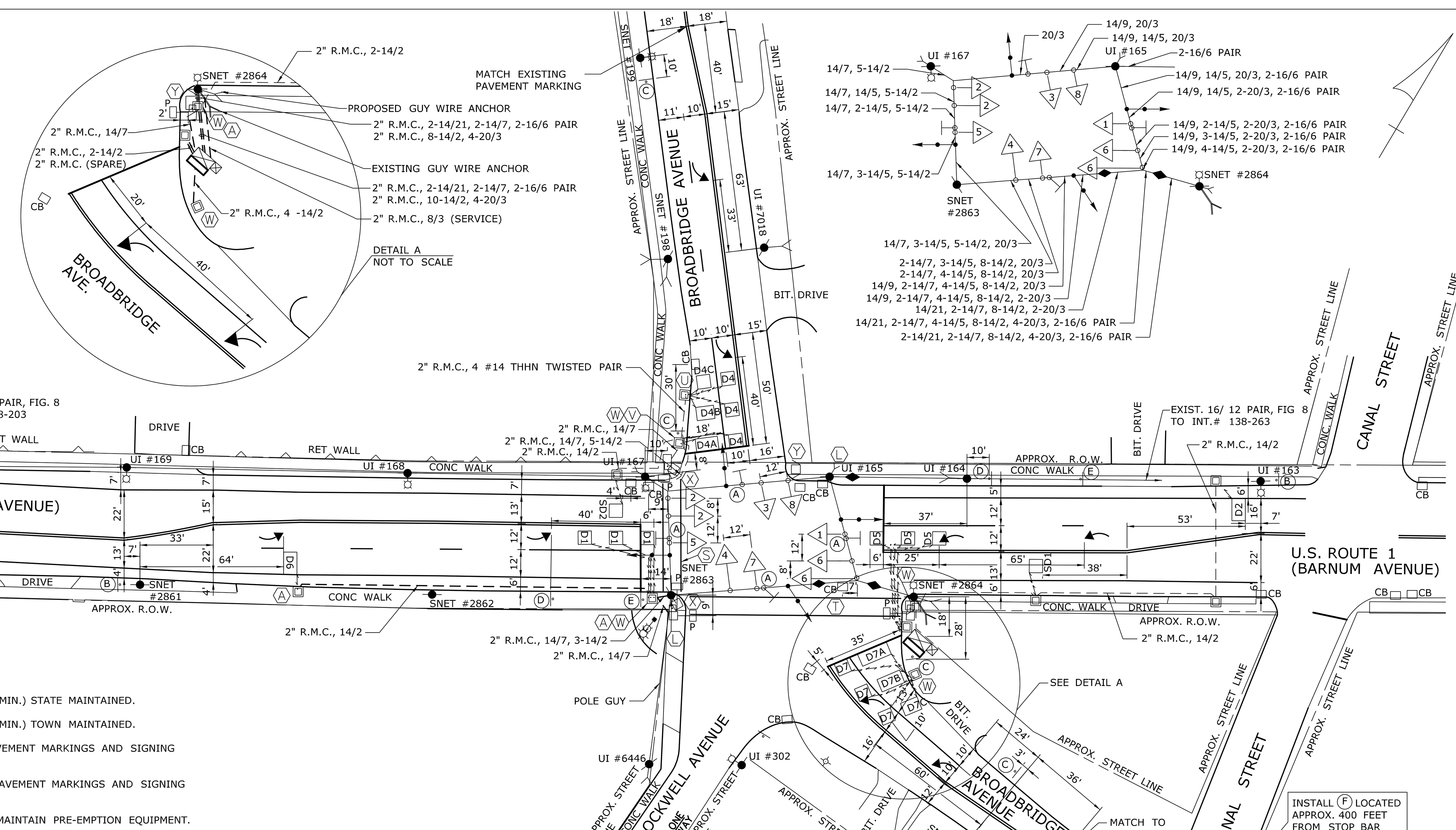
PHASE SPLITS SEC / %

SYSTEM LOC	TECHNICAL NOTES
MASTER	STANDARD OVERLAP SKIP FEATURES APPLY
138-202	TIMINGS SHOWN REFLECT FREE OPERATION. ACTUAL TIMINGS TO BE DETERMINED BY MASTER
138-203	COMPUTER.
138-204	PRE-EMPTION EQUIPMENT TO BE INOPERATIVE DURING FLASING OPERATION.
138-263	UNUSED TIME TO BE REALLOCATED.
138-236	① COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL.
138-237	MANUAL & INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CLEARANCE
138-270	INTERVAL.
	ARTERY PHASE LOOPS TO BE NON-ACTUATING
	DURING COORDINATION.

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

SIGN LEGEND

- (A) SPAN MOUNT 31-0135
- (B) EXISTING 31-0282
- (C) INSTALL 31-0282 Z
- (D) INSTALL 31-0282
- (E) REMOVE EXISTING 31-0282
- (F) INSTALL 41-0836



NOTES

(S) BAR TYPE CROSSWALK (16"-16"X8' MIN.) STATE MAINTAINED.

(T) BAR TYPE CROSSWALK (16"-16"X8' MIN.) TOWN MAINTAINED.

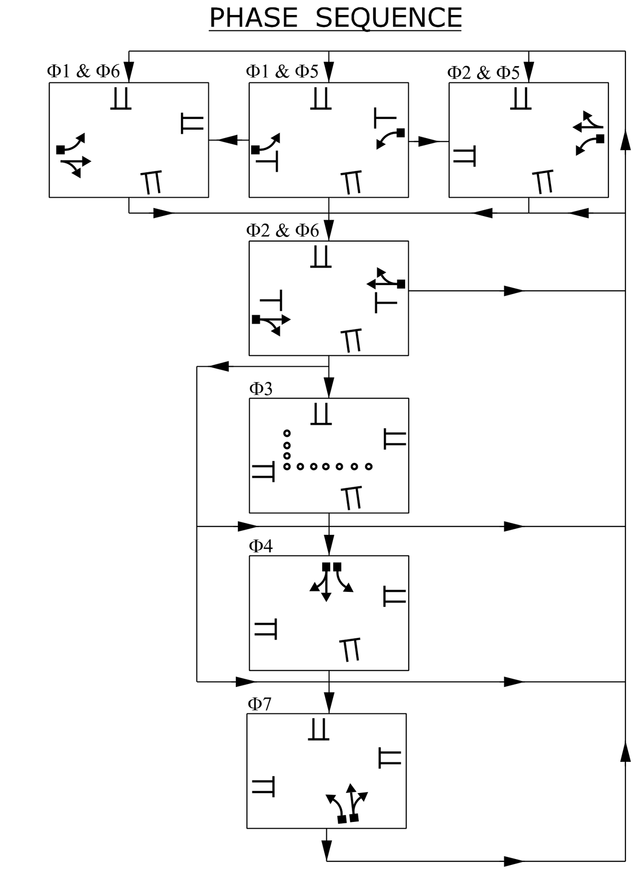
STATE TO INSTALL AND MAINTAIN PAVEMENT MARKINGS AND SIGNING ON ROUTE 1 AND ALL STOP BARS.

TOWN OF STRATFORD TO MAINTAIN PAVEMENT MARKINGS AND SIGNING ON BROADBRIDGE AVENUE.

TOWN OF STRATFORD TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT.

REV #	INTERSECTION # 138-204

PHASE SEQUENCE



CLOSED LOOP DETECTOR CHART

DETECTOR I.D.	DETECTOR #
D1 FRONT	1
D1 REAR	9
D2	2
D4 FRONT	4
D4 REAR	10
D4A/D4B	8
D4C	11
D5 FRONT	5
D5 REAR	12
D6	6
D7 FRONT	7
D7 REAR	13
D7A/D7B	3
D7C	14
SD1	15
SD2	16

SCALE 1" = 40'

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- ○ 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
- SD SYSTEM DETECTOR
- EXISTING CONTROLLER
- PROPOSED HANDHOLE
- EXISTING HANDHOLE
- SIDEWALK RAMP
- SONIC DETECTOR
- GUY WIRE
- LOOP DETECTOR
- MAGNETIC DETECTOR
- CABLE CLOSURE

DRAWN BY : GM2

DESIGNED BY : GM2

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF STRATFORD
U.S. ROUTE 1 (BARNUM AVENUE)
AT
BROADBRIDGE AVE. AND ROCKWELL AVE.

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (CONTROLLER CABINET, PEDESTALS, AND HANDHOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL PEDESTAL FOR PEDESTRIAN PUSH BUTTONS AT BACK EDGE OF WALK WITHIN R.O.W UNLESS OTHERWISE SPECIFIED.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

CABINET DOOR TO OPEN STREET SIDE.

INSTALL STATE FURNISHED CONTROLLER AND CABINET ON A TYPE IV FOUNDATION.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

(A) ALL HANDHOLES IN SIDEWALK SHALL HAVE CAST IRON COVERS.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE (U) (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE (V). TWIST LOOP DETECTOR. SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL LOOP DETECTORS IN THE CENTER OF LANE AND 8 FEET APART.

INSTALL R.M.C. STAND-OFFS ON ALL UTILITY POLES.

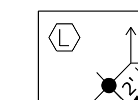
COORDINATE AND SCHEDULE THE FOLLOWING WORK BY UTILITY COMPANIES: TWO WEEKS PRIOR TO INSTALLATION CONTACT UNITED ILLUMINATING COMPANY REPRESENTATIVE MR. ROBERT COLLIER AT (203) 926-5234.

UNITED ILLUMINATING COMPANY TO REPLACE POLES UI #165 AND UI #167.

ESTIMATED LOAD ON UTILITY POLES:
SNET #2863: 3100 lbs.; SNET #2864: 3680 lbs.
U.I. #165: 3200 lbs.; UI #167: 2986 lbs.

SPAN ATTACHMENT ON UI #167, UI #165, SNET #2863, SNET #2864 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

SIGNAL SPAN TO BE ATTACHED TO ONE EYE BOLT ON SNET #2863, SNET #2864, UI #165 AND UI #167. SEE DETAILS IN STANDARD SHEETS.



(L) - PULL OFF TO BE IN LINE WITH GUY WIRE. SEE EYE BOLT AND ANCHOR INSTALLATION DETAILS IN CONNDOT STANDARD SHEETS.

2' PULL OFF AT UI #165 AND SNET #2863

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

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

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

CONTRACTOR TO HAVE UTILITY COMPANY INSTALL GUY WIRE ANCHORS ON UI #165, UI #167 AND SNET #2864.

PRE-EMPTION CONSTRUCTION NOTES:
RELOCATE EXISTING AUXILIARY EQUIPMENT CABINET ON RIGHT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

RELOCATE EXISTING PRE-EMPTION EQUIPMENT. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. ALL NEW CABLES TO BE INSTALLED.

RELOCATE EXISTING OPTICAL DETECTORS ON TO NEW SPAN.

STATE LAB WILL 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.

(X) INSTALL SIDEWALK RAMP TYPE 4a.

(Y) INSTALL SIDEWALK RAMP TYPE 4c.

CONTRACTOR TO ERADICATE/INSTALL PAVEMENT MARKINGS AS INDICATED BELOW:
- INSTALL ALL STOP BARS AS SHOWN.
- ERADICATE PAVEMENT MARKING ARROWS ON BOTH ROUTE 1 APPROACHES AND INSTALL NEW PAVEMENT MARKING ARROWS AS SHOWN.
- ERADICATE THE NORTH PORTION OF THE PAINTED DOUBLE YELLOW CENTER LINE ISLAND ON THE WEST LEG OF ROUTE 1.
- ERADICATE DOUBLE YELLOW CENTER LINE AND STOP BARS ON BOTH BROADBRIDGE AVENUE APPROACHES AND INSTALL NEW DOUBLE YELLOW CENTER LINE, LANE LINES, SKIP LINES, AND PAVEMENT MARKING ARROWS AS SHOWN.
- INSTALL BAR TYPE CROSSWALKS AS SHOWN.
- INSTALL EDGE LINES AND LANE LINES ON ROUTE 1 AS SHOWN.

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

NOTE:
CONTRACTOR SHOULD BE AWARE OF BURIED ELECTRICAL CONDUITS AT EACH CORNER INSTALLED FOR THE TOWN OF STRATFORD BARNUM AVENUE STREETSCAPE PROJECT NO. 138-235. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND TO CONDITION INSTALLED FOR THE BARNUM AVENUE STREETSCAPE PROJECT.

REV #

INTERSECTION # 138-204

TOWN: TOWN OF STRATFORD

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

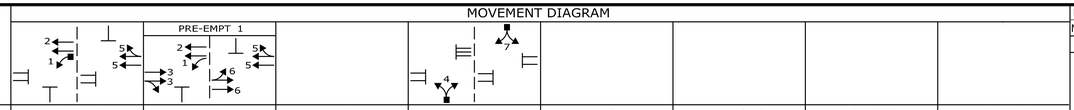
PROJECT NO. 173-403

DRAWING NO. TCS-11

SHEET NO. **03.12**

MOVEMENT DIAGRAM

NONE



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	Y	R				R	R	R												
2	Y	G	G	G	G	Y	R				R	R	R												
3	Y	R	R	R	G	Y	R				R	R	R												
4	R	R	R	R	R	R	R				G	Y	R												
5	Y	G	G	G	G	Y	R				R	R	R												
6	Y	R	R	R	G	Y	R				R	R	R												
7	R	R	R	R	R	R	R				G	Y	R												
8	R	R	R	R	R	R	R				G	Y	R												

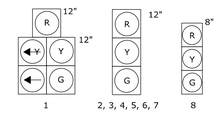
YIELD POINT

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		9				
WALK				20				
PED CLR				1				
VEH EXT	2			2.0				
MAX 1	7	44		26				
MAX 2	7	44		26				
YELLOW	3	4.0		3				
RED	0.1	2.5		1				
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MAX RECALL	OFF	NON-LOCK	OFF	OFF	OFF	OFF
INT START		THIS PHASE						

ENERGY BY CITY	ADDRESS # SYST 57 LOC 14
MAINT LEVEL 5	SERVICE POLE SNET #1044
METERED SERVICE	

INTERSECTION # 156-205

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS
FACE 8 TO HAVE TUNNEL VISORS

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.	NO
HOLD GREEN	15
HOLD YELLOW	4.0
HOLD RED	2.5
HOLD PHASE	2
EXIT PHASE	4
EXIT CALL	NONE

OFFICE RECORD

REVISION #

STC # SM # N/A

SIGNAL REVISED

REPLACED SIGNAL EQUIPMENT UNDER PROJECT 173-403

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (CONTROLLER CABINET, PEDESTALS, AND HANDHOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL PEDESTAL FOR PEDESTRIAN PUSH BUTTONS AT BACK EDGE OF WALK WITHIN R.O.W UNLESS OTHERWISE SPECIFIED.

CABINET DOOR TO OPEN FIELD SIDE.

INSTALL STATE FURNISHED CONTROLLER & CABINET ON A TYPE IV FOUNDATION.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

(D) ALL HANDHOLES IN SIDEWALK SHALL HAVE CAST IRON COVERS.

INSTALL LOOP DETECTORS IN THE CENTER OF LANE AND 8 FEET APART.

INSTALL R.M.C. STAND-OFFS ON ALL UTILITY POLES.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

COORDINATE AND SCHEDULE THE FOLLOWING WORK BY UTILITY COMPANIES: TWO WEEKS PRIOR TO INSTALLATION CONTACT UNITED ILLUMINATING COMPANY REPRESENTATIVE MR. ROBERT COLLIER AT (203) 926-5234.

UNITED ILLUMINATING COMPANY TO REPLACE POLE UI #3065.

ESTIMATED LOAD ON UTILITY POLES:
UI #3065: 4200 lbs.

SPAN ATTACHMENT ON UI #3065 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

SIGNAL SPAN TO BE ATTACHED TO ONE "EYE" BOLT ON UIC #3065. SEE DETAILS IN STANDARD SHEETS.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

CONTRACTOR TO HAVE UTILITY COMPANY INSTALL GUY WIRE ANCHORS ON UI #3065

PRE-EMPTION CONSTRUCTION NOTES:

RELOCATE EXISTING AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF THE NEW CONTROLLER CABINET INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

RELOCATE EXISTING PRE-EMPTION EQUIPMENT. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. ALL NEW CABLES TO BE INSTALLED.

RELOCATE EXISTING OPTICAL PRE-EMPTION EQUIPMENT TO NEW SPAN

STATE LAB WILL 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.

RELAY BRICK WALK WHERE DISTRUBED BY INSTALLATION OF SPAN POLES, HANDHOLES OR CONDUITS ETC. TAKE SPECIAL CARE NOT TO DAMAGE BRICKS SO THAT THEY ARE AVAILABLE FOR REUSE.

(X) INSTALL SIDEWALK RAMPS TYPE 4a.

(Y) INSTALL SIDEWALK RAMPS TYPE 2.

(Z) A 5' WIDE CONCRETE PAD IS TO BE PROVIDED THROUGH THE EXISTING BRICK PAVERS TO CONNECT THE SIDEWALK RAMP TO THE EXISTING CONCRETE SIDEWALK. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND.

THE PEDESTRIAN PUSH BUTTON AND PEDESTAL ON THE NORTH SIDE OF THE FRONT AVENUE INTERSECTION IS TO BE INSTALLED AFTER THE EXISTING CONTROLLER IS REMOVED.

CONTRACTOR TO INSTALL/ERADICATE PAVEMENT MARKINGS AS INDICATED BELOW:

- INSTALL ALL STOP BARS AS SHOWN.
- INSTALL NEW PAVEMENT MARKING ARROWS AS SHOWN.
- INSTALL 50' DYCL ON GILBERT STREET AND FRONT AVENUE.

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6'X6'	3	PRESENCE
D4	8'X6'	3	PRESENCE
D4A	10'X6'	4	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	2200-0600	DAILY
MAX 1	ALL OTHER TIMES	DAILY
MAX 2	FUTURE	
PATTERN 1	0630-2000 0800-1900	M-F SA-SU
PATTERN 5	ALL OTHER TIMES	
FREE	FUTURE	

COORDINATION TYPE - CLOSED LOOP

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS Ø1	Ø2	Ø3	Ø4	SEC / % Ø5	Ø6	Ø7	Ø8
90"	30	33	10 11	49 54		31 34				
70	20	29	10 14	39 56		21 30				

PERMIS PERIOD	SEC

SYSTEM LOC MASTER	
106-213	
106-204	156-205
106-228	156-247
106-206	
156-230	
156-201	
156-239	
156-202	
156-229	
156-203	
156-217	
156-204	

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY

TIMINGS SHOWN REFLECT FREE OPERATION. ACTUAL PHASE SPLITS TO BE DETERMINED BY CLOSED LOOP LOCAL COORDINATION UNIT.

PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

PHASE 2 ON TO OMIT PHASE 1

LEGEND:

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF WEST HAVEN
U.S. ROUTE 1 (ORANGE AVENUE) AT
FRONT AVENUE AND
GILBERT STREET

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE	7/12/2011		7/12/2011	

GM2 ASSOCIATES, INC.

REV # INTERSECTION # 156-205

SIGN LEGEND

(A) ERECT 31-0802 (STOP HERE ON RED)

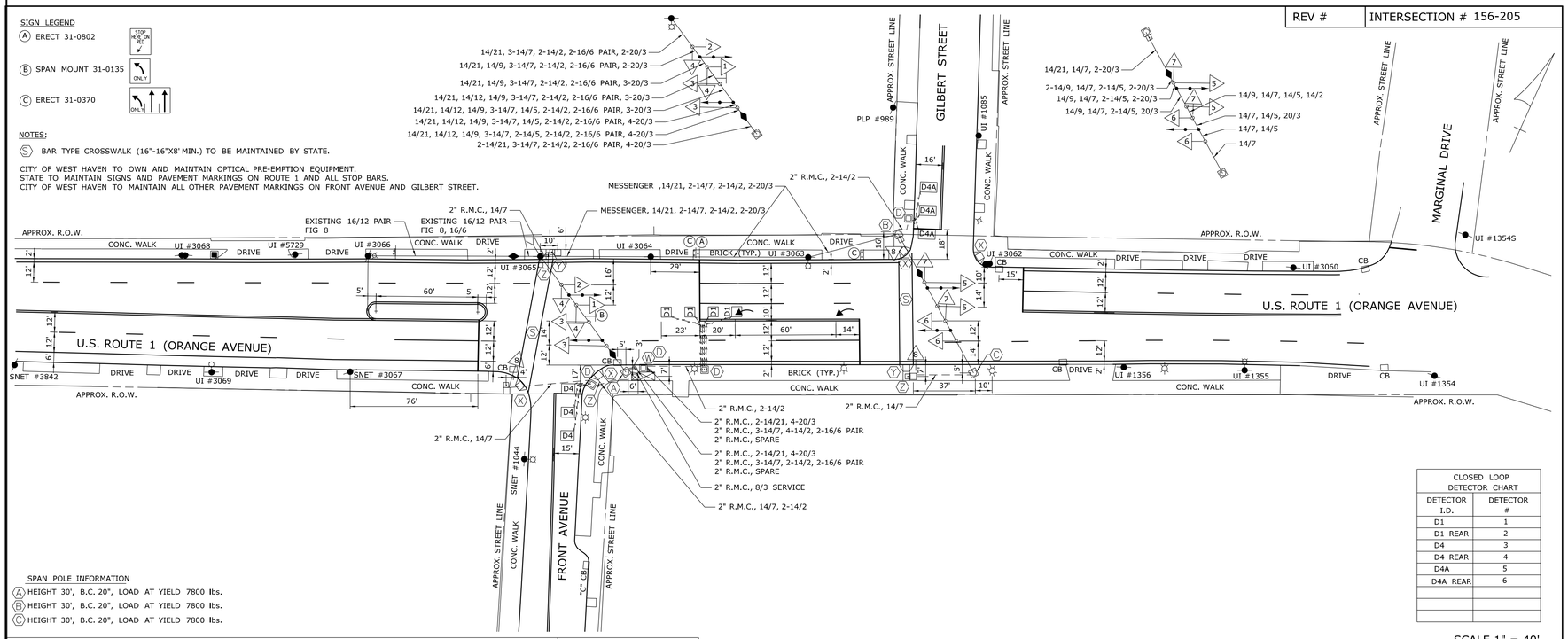
(B) SPAN MOUNT 31-0135 (ONLY)

(C) ERECT 31-0370 (ONLY)

NOTES:

(S) BAR TYPE CROSSWALK (16"-16"X8' MIN.) TO BE MAINTAINED BY STATE.

CITY OF WEST HAVEN TO OWN AND MAINTAIN OPTICAL PRE-EMPTION EQUIPMENT.
STATE TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON ROUTE 1 AND ALL STOP BARS.
CITY OF WEST HAVEN TO MAINTAIN ALL OTHER PAVEMENT MARKINGS ON FRONT AVENUE AND GILBERT STREET.



SPAN POLE INFORMATION

(A) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs.
(B) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs.
(C) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs.

CLOSED LOOP DETECTOR CHART

DETECTOR I.D.	DETECTOR #
D1	1
D1 REAR	2
D4	3
D4 REAR	4
D4A	5
D4A REAR	6

SCALE 1" = 40'

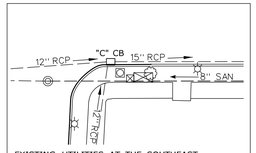
V:\173_403_CTDOT_TRAFFIC_SIGNALS\Traffic\TR_MSH_TCS_156205_173_403.dgn

DATE PLOTTED 7/12/2011

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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

NO.	DATE	INIT.	DESCRIPTION

REVISIONS



EXISTING UTILITIES AT THE SOUTHEAST CORNER OF U.S. 1 AND FRONT AVE. INTERSECTION

DRAWN BY : GM2

DESIGNED BY : GM2

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF WEST HAVEN
U.S. ROUTE 1 (ORANGE AVENUE) AT
FRONT AVENUE AND
GILBERT STREET

TOWN: CITY OF WEST HAVEN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

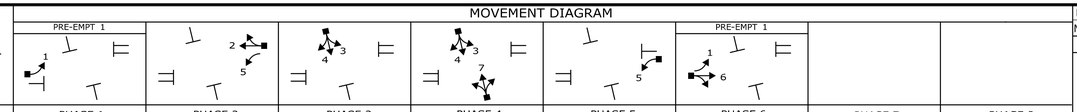
PROJECT NO. 173-403

DRAWING NO. TCS-12

SHEET NO. 03.13

REV # INTERSECTION # 156-205

MOVEMENT DIAGRAM

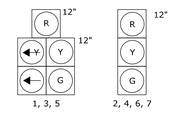


	NTOR	PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE # 1	Y	◄R	◄Y R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R						
2	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R						
3	R	R	R	R	R	R	R	◄G	◄Y G	G	G	Y	R	R	R	R	R	R	R						
4	R	R	R	R	R	R	R	G	G	G	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						
7	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R						
					◄YIELD POINT												◄YIELD POINT								
INTERVALS	MIN GRN	5			15			5			9			5			15								
	WALK										15														
	PED CLR										1														
	VEH EXT	2			3.0			2.0			2.5			2			3.0								
	MAX 1	7			25			7			25			7			25								
	MAX 2	7			25			7			18			12			25								
	YELLOW		3			3.6			3.0			3.6			3			3.6							
	RED			0.1			1.8			0.1			2.5			0.1			1.8						
	ADD INIT																								
	MAX INIT																								
	TBR																								
	TTR																								
	MIN GAP																								
	MODE	NON-LOCK			MIN. RECALL			LOCK			LOCK			NON-LOCK			MIN. RECALL			OFF			OFF		
	INT START				THIS PHASE												THIS PHASE								

ENERGY BY	CITY	ADDRESS #	
MAINT LEVEL	1	SERVICE POLE	UIC #14
METERED SERVICE			

INTERSECTION # 156-207

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS

OFFICE RECORD

REVISION #

STC # 156-1004-02 SM # N/A

SIGNAL REVISED
REPLACED SIGNAL EQUIPMENT AND ADDED PRE-EMPTION
UNDER PROJECT 173-403.

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.	NO
HOLD GREEN	15
HOLD YELLOW	3.0
HOLD RED	0.1
HOLD PHASE	1 & 6
EXIT PHASE	2 & 6
EXIT CALL	NONE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF WEST HAVEN
S.R. 745 (ELM STREET & FIRST AVENUE)
AT
ELM STREET & FIRST AVENUE

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE	7/12/2011		7/12/2011	

GM2 ASSOCIATES, INC.

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6'X6'	3	PRESENCE
D2	6'X6'	3	PRESENCE
D4	12'X6'	3	PRESENCE
D4A	16'X6'	3	8" DELAY
D4B	10'X6'	3	8" DELAY
D5	6'X6'	3	PRESENCE
D6	8'X6'	3	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	NONE	
MAX. 1	ALL OTHER TIMES	DAILY
MAX. 2	1615-1745	DAILY
PATTERN 1	ALL OTHER TIMES	DAILY
PATTERN 2	FUTURE	
PATTERN 3	FUTURE	
FREE	1900-0600	

COORDINATION TYPE - TIME CLOCK-TC/TBC

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
75"	1	1								

PERMIS PERIOD	
Ø	SEC

SYSTEM LOC MASTER
156-207
156-233

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
PHASES 1 & 5 TO DRIVE FACES 1 & 5 ◄Y AND ◄— ONLY
PHASES 2 & 6 TO DRIVE FACES 1 & 5 R, Y & G
PHASE 2 ON TO OMIT PHASE 1
PHASE 6 ON TO OMIT PHASE 5
ARTERY PHASE LOOPS TO BE NON-ACTUATING DURING COORDINATION.
PRE-EMPTION EQUIPMENT TO BE INOPERATIVE DURING FLASHING OPERATION.

LEGEND:

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

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (CONTROLLER CABINET, PEDESTALS, AND HANDHOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

(B) INSTALL FOUNDATION ADJACENT TO AND WITHIN R.O.W.

INSTALL PEDESTAL FOR PEDESTRIAN PUSH BUTTONS AT BACK EDGE OF WALK WITHIN R.O.W UNLESS OTHERWISE SPECIFIED.

CABINET DOOR TO OPEN STREET SIDE.

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

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

(C) ALL HANDHOLES IN SIDEWALK SHALL HAVE CAST IRON COVERS.

INSTALL LOOP DETECTORS IN THE CENTER OF LANE AND 8 FEET APART.

INSTALL R.M.C. STAND-OFFS ON ALL UTILITY POLES.

TWO WEEKS PRIOR TO INSTALLATION CONTACT UNITED ILLUMINATING COMPANY REPRESENTATIVE MR. ROBERT COLLIER AT (203) 926-5234.

UNITED ILLUMINATING COMPANY TO REPLACE POLES UIC #14 AND UIC #15.

ESTIMATED LOAD ON UTILITY POLES:
SNET #3823: 3700 lbs.
SNET #3824: 3900 lbs.
UIC #14: 2770 lbs.
UIC #15: 2864 lbs.

SPAN ATTACHMENT ON UIC #14, UIC #15, SNET #3823, SNET #3824 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

SIGNAL SPAN TO BE ATTACHED TO ONE "EYE" BOLT ON UIC #14, UIC #15, SNET 3823, AND SNET 3824. SEE DETAILS IN STANDARD SHEETS.

(U) - PULL OFF TO BE IN LINE WITH GUY WIRE. SEE EYE BOLT AND ANCHOR INSTALLATION DETAILS IN CONNDOT STANDARD SHEETS.
2' PULL OFF AT UIC #15 AND SNET 3823

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN +5' FROM CURBLINE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

CONTRACTOR TO HAVE UTILITY COMPANY INSTALL GUY WIRE ANCHORS ON UIC #14, UIC #15, SNET 3823, AND SNET #3824. GUY WIRE ANCHOR ON UIC #14 TO BE SIDEWALK ANCHOR.

PRE-EMPTION CONSTRUCTION NOTES:

INSTALL AUXILIARY EQUIPMENT CABINET ON RIGHT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

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.

CONTRACTOR TO INSTALL/ERADICATE PAVEMENT MARKINGS AS INDICATED BELOW:

- INSTALL ALL STOP BARS AS SHOWN.
- ERADICATE EXISTING PAVEMENT MARKINGS ON ELM STREET AND INSTALL NEW PAVEMENT MARKINGS AS SHOWN.
- ERADICATE ALL EXISTING CROSSWALKS AND INSTALL NEW CROSSWALKS AS SHOWN.
- ERADICATE ALL PAVEMENT MARKINGS ON SR 745 (ELM STREET) BETWEEN FIRST AVENUE AND WATER STREET AND INSTALL NEW PAVEMENT MARKINGS AS SHOWN.
- INSTALL EDGE LINES ON SR 745 (FIRST AVENUE) AS SHOWN.

(X) INSTALL SIDEWALK RAMP TYPE 4a.
(Y) INSTALL SIDEWALK RAMP TYPE 1.
(Z) INSTALL SIDEWALK RAMP TYPE 2.

CONSTRUCTION NOTES FOR INTERSECTION #156-233:

SR 745 AT KIMBERLY AVENUE

REPLACE TIME CLOCK AND T.B.C. IN EXISTING CONTROLLER CABINET AT INT. #156-233. REVISE TIMINGS AS SHOWN BELOW.

		PHASE 1		PHASE 2		PHASE 3	
INTERVALS	MIN GRN			20		7	
	WALK					1	
	PED CLR					15	
	VEH EXT					4	
	MAX 1			25		20	
	MAX 2			25		20	
	YELLOW				3.6		3.0
	RED				2.0		1.0
	ADD INIT						
	MAX INIT						
	TBR						
	TTR						
	MINGAP						
	MODE			MAX RECALL		NON-LOCK	
	INI START			THIS PHASE			

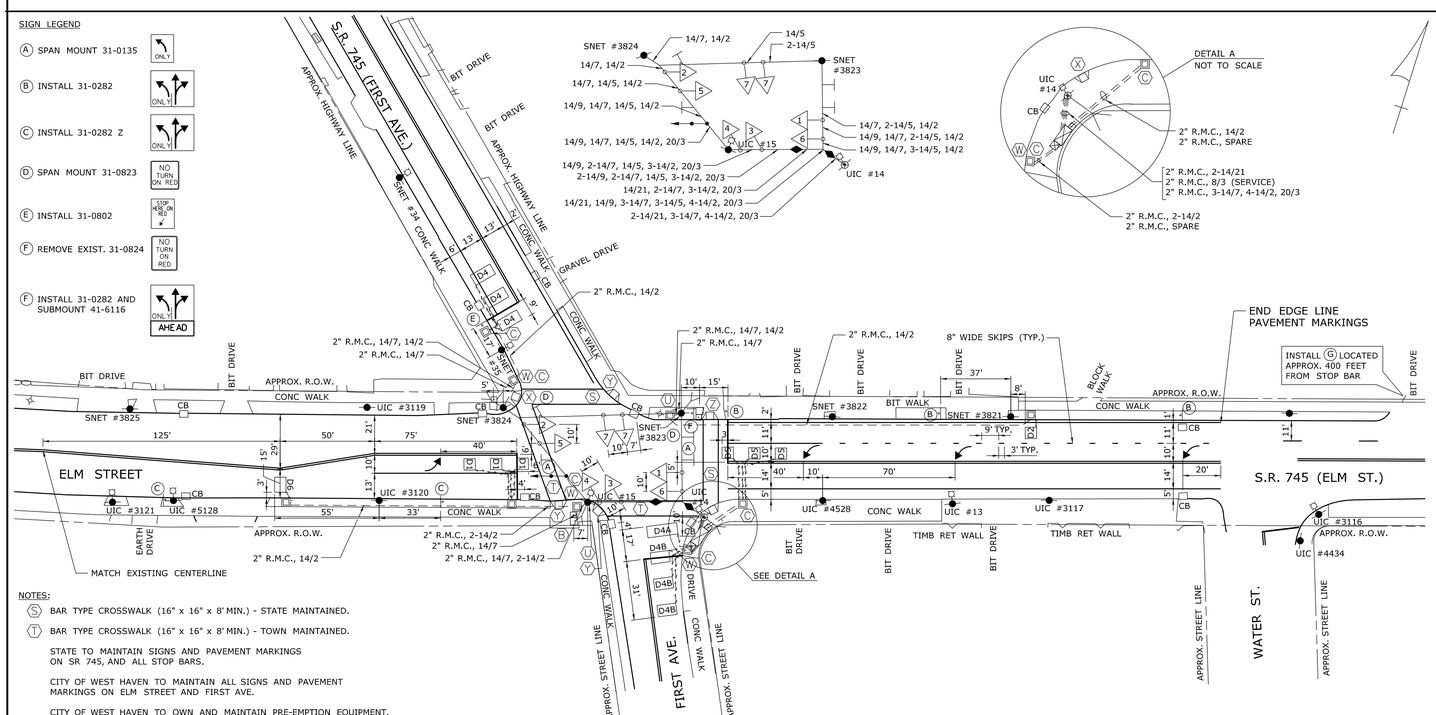
NO.	DATE	INIT.	DESCRIPTION

REVISIONS

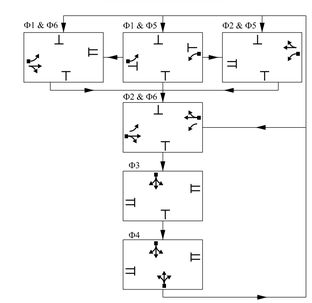
PROGRAM			COORDINATION TYPE- TIME CLOCK/TBC								
FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS Ø1	Ø2	Ø3	Ø4	Ø5	Ø6
FLASH	2359 - 0600	DAILY									
MAX 1	ALL OTHER TIMES	DAILY									
MAX 2	FUTURE										
PATTERN 1	ALL OTHER TIMES	DAILY	75	11	15						
PATTERN 2	FUTURE										
PATTERN 3	FUTURE										
FREE	1900-2359	DAILY									

SIGN LEGEND

(A) SPAN MOUNT 31-0135 — ONLY
(B) INSTALL 31-0282 — ONLY
(C) INSTALL 31-0282 Z — ONLY
(D) SPAN MOUNT 31-0823 — NO TURN ON RED
(E) INSTALL 31-0802 — STOP HERE ON RED
(F) REMOVE EXIST. 31-0824 — NO TURN ON RED
(F) INSTALL 31-0282 AND SUBMOUNT 41-6116 — ONLY AHEAD



PHASE SEQUENCE



NOTES:

(S) BAR TYPE CROSSWALK (16" x 16" x 8' MIN.) - STATE MAINTAINED.
(T) BAR TYPE CROSSWALK (16" x 16" x 8' MIN.) - TOWN MAINTAINED.

STATE TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON SR 745, AND ALL STOP BARS.

CITY OF WEST HAVEN TO MAINTAIN ALL SIGNS AND PAVEMENT MARKINGS ON ELM STREET AND FIRST AVE.

CITY OF WEST HAVEN TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT.

V:\173_403_CTDOT_TRAFFIC_SIGNALS\Traffic\TR_MSH_TCS_156207_173_403.dgn

DATE PLOTTED 7/12/2011

SCALE 1" = 40'

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

DRAWN BY : GM2

DESIGNED BY : GM2

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF WEST HAVEN
S.R. 745 (ELM STREET & FIRST AVENUE)
AT
ELM STREET & FIRST AVENUE

TOWN: CITY OF WEST HAVEN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403

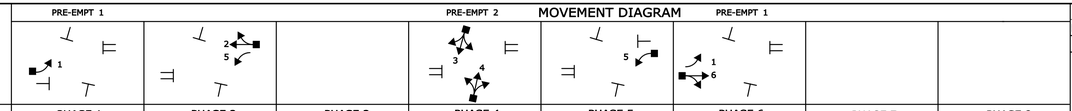
DRAWING NO. TCS-13

SHEET NO. 03.14

REV #

INTERSECTION # 156-207

MOVEMENT DIAGRAM



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	◄R	◄Y 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						
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	◄Y R	R	R	R	R						
6	Y	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R						
					◄YIELD		POINT											◄YIELD	POINT						

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		7	5	15		
WALK				13				
PED CLR				1				
VEH EXT	2	3.0		3	2	3.0		
MAX 1	7	25		16	7	25		
MAX 2	7	25		16	7	25		
YELLOW	3	3.6		3	3	3.6		
RED	0.1	2		2.5	0.1	2		
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON-LOCK	MIN. RECALL	OFF	NON-LOCK	NON-LOCK	MIN. RECALL	OFF	OFF
INT START		THIS PHASE				THIS PHASE		

DETECTORS			
IDENT	SIZE (WXL)	TURNS	MODE
D1	6.0 X 6.0	3	PRESENCE
D2	6.0 X 6.0	3	PRESENCE
D4	10.0 X 6.0	3	PRESENCE
D4A	6.0 X 6.0	3	8" DELAY
D5	6.0 X 6.0	3	PRESENCE
D6	6.0 X 6.0	3	PRESENCE

PROGRAM		
FUNCTION	T I M E	DAYS
FLASH	FUTURE	
MAX 1	ALL OTHER TIMES	DAILY
MAX 2	0600-1000	DAILY
PATTERN 1	ALL OTHER TIMES	DAILY
PATTERN 2	FUTURE	
PATTERN 3	FUTURE	
FREE	0600-1000	

COORDINATION TYPE :TIME BASED/TBC

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD Ø	SEC
60"	1	1										

SYSTEM LOC MASTER
156-208
156-215

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
PHASES 1 & 5 TO DRIVE FACES 1 & 5 ◄Y AND ◄ ONLY.
PHASES 2 & 6 TO DRIVE FACES 1 & 5 R, Y, G.
PHASE 2 ON TO OMIT PHASE 1.
PHASE 6 ON TO OMIT PHASE 5.
ARTERY PHASE LOOPS TO BE NON-ACTUATING DURING COORDINATION.
PRE-EMPTION EQUIPMENT TO BE INOPERATIVE DURING FLASHING OPERATION

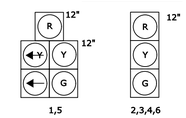
LEGEND:

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

ENERGY BY	CITY	ADDRESS #
MAINT LEVEL	5	SERVICE POLE SNET 1
METERED SERVICE		

INTERSECTION # 156-208

SIGNAL FACES



ALL INDICATIONS TO 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.	NO	NO
HOLD GREEN	15	15
HOLD YELLOW	3	3
HOLD RED	0.1	2.5
HOLD PHASE	1&6	4
EXIT PHASE	2&6	2&6
EXIT CALL	NONE	NONE

OFFICE RECORD

REVISION #

STC # 156-1004-01 SM # N/A

SIGNAL REVISED
REPLACED SIGNAL EQUIPMENT AND ADDED PRE-EMPTION
UNDER PROJECT 173-403

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

CITY OF WEST HAVEN
ROUTE 122 (FIRST AVENUE)
AT
SPRING STREET

REV #	TRAFFIC		ELECTRICAL	
		DATE		DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY				
APPROVED BY				
DATE	7/12/2011		7/12/2011	

VN ENGINEERS, INC.

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE THE CONTRACTOR MUST CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

(J) INSTALL CONTROLLER AND SPAN POLE FOUNDATIONS ADJACENT TO AND WITHIN R.O.W. CABINET DOOR TO OPEN STREET SIDE.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

(X) ALL HANDHOLES IN SIDEWALK SHALL HAVE CAST IRON COVERS.

SEE "TYPICAL INSTALLATION DETAIL, INDUCTIVE LOOP VEHICLE DETECTORS" SHEET. THE NEW SAWCUT INSTALLATION PROCEDURE HAS CHANGED.

LOOP DETECTORS TO BE CENTERED IN LANE AND 8' APART UNLESS OTHERWISE SPECIFIED.

(K) SPAN ATTACHMENT ON SNET 1 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

(L) SPAN ATTACHMENT ON SNET 838 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS. THE TWO SPAN WIRES SHALL BE ATTACHED TO ONE EYE BOLT.

(V) THE TWO SPANS WIRES SHALL BE ATTACHED TO ONE EYE BOLT. SEE INSTALLATIONS IN STANDARD SHEETS.

(M) SPAN ATTACHMENT ON SNET 3165 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

(U) INSTALL TYPE 4A PEDESTRIAN RAMP.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
SNET: MICHAEL BRECHER PHONE: (203) 238-5201,
U.I.: PAUL OBEREMPT PHONE: (203) 926-4425.

ESTIMATED LOAD ON UTILITY POLES:
SNET #1 : 691 lbs.
SNET #838 : 749 lbs.
SNET #3165: 749 lbs.

UTILITY COMPANY TO INSTALL SIDEWALK TYPE GUY ON SNET #838.
UTILITY COMPANY TO REPLACE SNET #838 AND SNET #3165.

- PULL OFF TO BE IN LINE WITH GUY WIRE. SEE EYE BOLT AND ANCHOR INSTALLATION DETAILS IN CONNDOT STANDARD SHEETS.

2' PULL OFF AT SNET #838

PRE-EMPTION NOTES

INSTALL AUXILIARY EQUIPMENT CABINET ON RIGHT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

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.

CONTRACTOR TO INSTALL/ERADICATE PAVEMENT MARKINGS AS INDICATED BELOW:

- ALL STOP BARS AS SHOWN.

- ERADICATE DYCL, LANE LINES AND PAVEMENT MARKING ARROWS ON ROUTE 122 WITHIN LIMITS OF PLANS.

- INSTALL PAVEMENT MARKING ARROWS, LANE LINES, EDGE LINES, SKIP LINES AND DYCL ON ROUTE 122 AS SHOWN.

CONSTRUCTION NOTES FOR INTERSECTION #156-215

ROUTE 122 AT I-95 SB OFF RAMP AND SR745

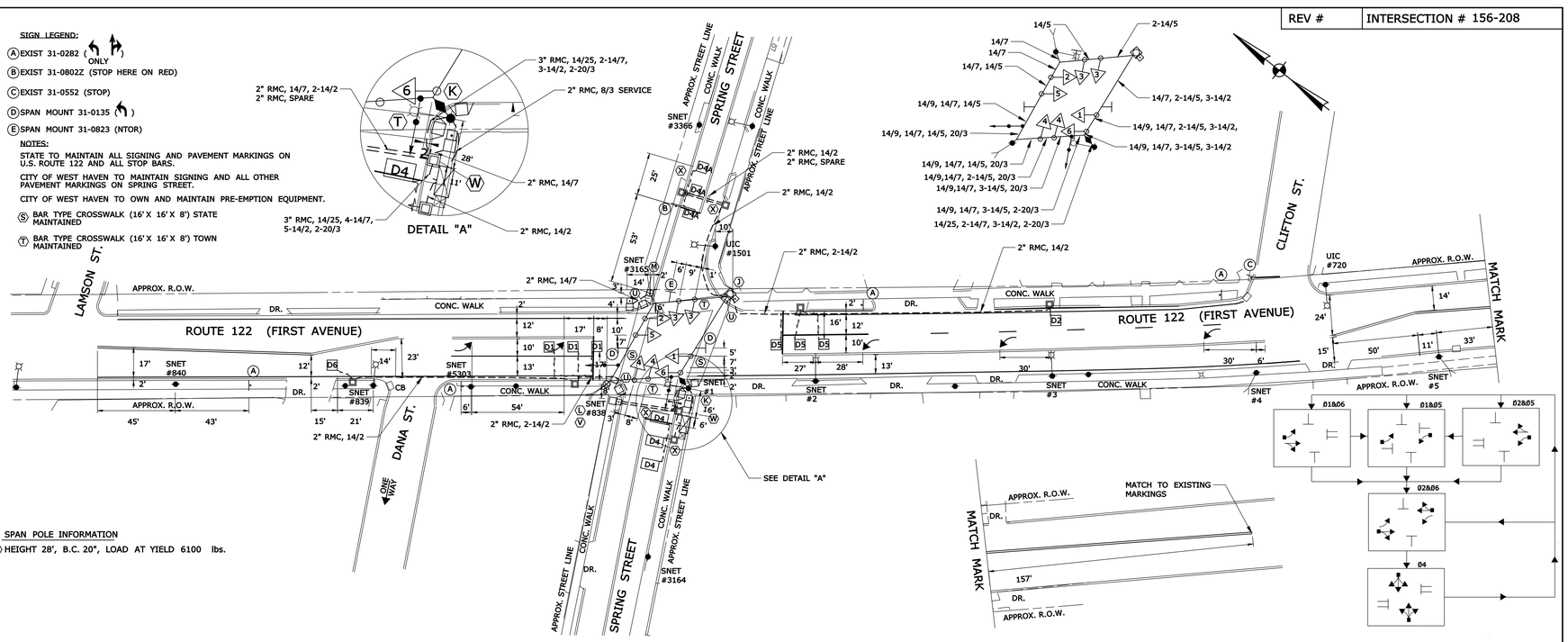
REPLACE TIME CLOCK AND T.B.C. IN EXISTING CONTROLLER CABINET AT INT. #156-215. REVISE TIMINGS AS SHOWN BELOW.

PROGRAM			COORDINATION TYPE - TIME CLOCK/TBC										PERMIS PERIOD	
FUNCTION	T I M E	DAYS	CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC % Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø	SEC
FLASH	FUTURE														
MAX 1	ALL OTHER TIMES	DAILY													
MAX 2	0600-1000	DAILY													
PATTERN1	ALL OTHER TIMES	DAILY	60"	29	48										
PATTERN2	FUTURE														
PATTERN3	FUTURE														

INTERVALS	PHASE 1		PHASE 2	
MIN GRN	27		9	
WALK				
PED CLR				
VEH EXT			3	
MAX 1	27		20	
MAX 2	20		35	
YELLOW		3.6		3.0
RED		1.5		1.0
ADD INIT				
MAX INIT				
TBR				
TTR				
MIN GAP				
MODE	MAX RECALL		NON-LOCK	
INT START	THIS PHASE			

NO.	DATE	INIT.	DESCRIPTION

REVISIONS



SCALE 1" = 40'

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DATE PLOTTED 7/12/2011

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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : MWD

DESIGNED BY : MWD

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

CITY OF WEST HAVEN
ROUTE 122 (FIRST AVENUE)
AT
SPRING STREET

TOWN: WEST HAVEN

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403

DRAWING NO. TCS-14

SHEET NO. 03.15

REV # | INTERSECTION # 156-208

INTERSECTION # 157-205

ENERGY BY TOWN | ADDRESS # N/A
MAINT LEVEL 2 | SERVICE POLE CL&P 31106
UNMETERED SERVICE

MOVEMENT DIAGRAM

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8 (PRE-EMPT 1)
	1, 6	1, 6, 2		4, 7	5, 5, 4, 7			5, 5

NTOR	FLASH	P1 GRN	P1 CL	P1 CL	P2 GRN	P2 CL	P2 CL	P3 GRN	P3 CL	P3 CL	P4 GRN	P4 CL	P4 CL	P5 GRN	P5 CL	P5 CL	P6 GRN	P6 CL	P6 CL	P7 GRN	P7 CL	P7 CL	P8 GRN	P8 CL	P8 CL
FACE # 1	Y	←G	←Y G	G	G	Y	R				R	R	R	R	R	R							R	R	R
2	Y	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 G	G	G	Y	R							R	R	R
5	R	R	R	R	R	R	R				R	R	R	G	Y	R							G	Y	R
6	Y	G	G	G	G	Y	R				R	R	R	R	R	R							R	R	R
7	R	R	R	R	R	R	R				G	G	G	G	Y	R							R	R	R
8	R	R	R	R	R	R	R				R	R	R	G	Y	R							R	R	R
						← YIELD PT.																			

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	3	15		5	7			X X
WALK					11			
PED CLR					1			
VEH EXT	2.5	2.5			1.5			
MAX 1	5.0	34		5	12			X X
MAX 2	14	36		5	12			X X
YELLOW	3.0	4.2		3	3.0			3.0
RED	0.1	2.5		0.1	2.2			2.2
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	MIN RECALL	MIN RECALL	OFF	NON-LOCK	NON-LOCK	OFF	OFF	ON/OMIT
INT START		THIS PHASE						

SIGNAL FACES

12" / 12" — 1,4 (R; ←Y, Y; ←, G)
12" — 2,5,6,7 (R, Y, G)
8" — 8 (R, Y, G)

ALL INDICATIONS HAVE LED LAMPS.
FACES 8 TO HAVE TUNNEL VISORS.

PRE-EMPTION SETTINGS

	PRE-EMPT 1
PRIORITY	NO
DET. LOCK	YES
DELAY	5
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	NO
HOLD GREEN	20
HOLD YELLOW	3
HOLD RED	2.2
HOLD PHASE	8
EXIT PHASE	5
EXIT CALL	NONE

OFFICE RECORD
REVISION #
STC # SM #
SIGNAL REVISED:
REPLACED ALL SIGNAL EQUIPMENT AND INSTALLED HARD-WIRE PRE-EMPTION UNDER PROJECT No. 173-403.

DETECTORS			
IDENT	SIZE (WXL)	TURNS	MODE
D1	6' x 6'	3	PRESENCE
D1A	6' x 6'	3	PRESENCE
D1B	20' x 6'	3	PRESENCE
D2	6' x 6'	3	PRESENCE
D2A	6' x 6'	3	PRESENCE
D5	6' x 6'	3	PRESENCE
D5A	10' x 6'	3	PRESENCE
D5B	6' x 6'	3	PRESENCE
D5C	6' x 6'	3	PRESENCE

PROGRAM FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1–Ø8	PERMIS PERIOD Ø	SEC
FLASH	2200-0500	DAILY						
MAX 1	ALL OTHER TIMES							
MAX 2	0700-0900 1400-1800	DAILY						
CYCLE 1	0700-0900 1400-1800	DAILY	85	1	0			
CYCLE 2	0900-1400	DAILY	70	1	0			
FREE	ALL OTHER TIMES							

COORDINATION TYPE - TBC

SYSTEM LOC	TECHNICAL NOTES
MASTER	STANDARD OVERLAP SKIP FEATURES APPLY
157-205	PHASE 2 ON TO OMIT PHASE 1 & 5.
157-210	PHASE 4 ON TO CALL PHASE 5.
	PHASE 5 CHECK TO CALL PHASE 4
	SIGNAL MAY DOUBLE CYCLE IF PEDESTRIAN BUTTON ACTUATED.
	PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
	DETECTOR D1B TO EXTEND PHASE 1 ONLY.
	X X TIME REQUIRED FOR SAFE PASSAGE OF EMERGENCY APPARATUS.
	PRE-EMPT 1 ACTUATED BY PUSHBUTTON IN FIREHOUSE ON NORFIELD RD. VIA HARD WIRE (14/5 CABLE).

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

DIVISION OF TRAFFIC ENGINEERING CADD

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

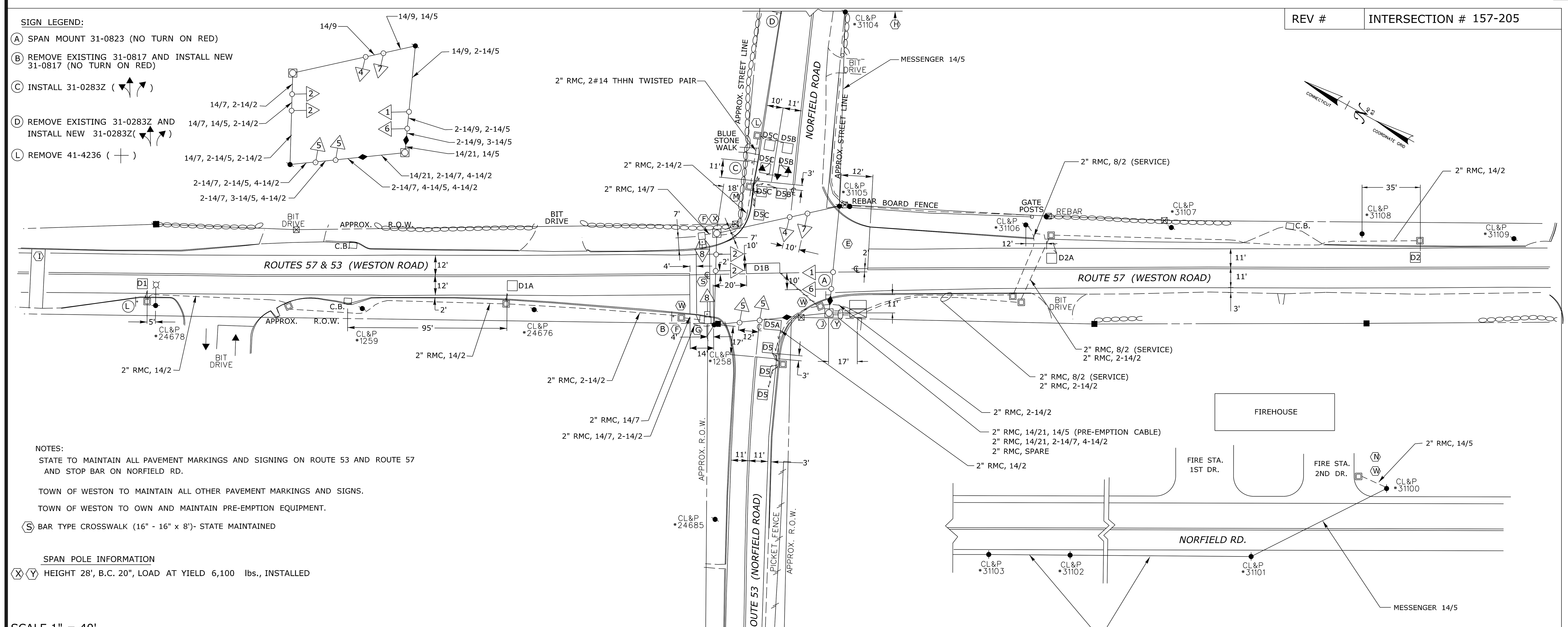
TRAFFIC CONTROL SIGNAL

TOWN OF WESTON
ROUTE 53 & 57 (WESTON RD.) AT
ROUTE 53 (NORFIELD RD.)
AND NORFIELD RD.

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	JED	4/11	ZRC	5/11
DRAWN BY	MJC	3/11	MJC	5/11
CHECKED BY	FLK	5/11	MRM	5/11
SUBMITTED BY	JPO	5/11	LNC	5/11
APPROVED BY	[signature]		[signature]	
DATE	7/13/11		7/13/11	

REV # | INTERSECTION # 157-205

SIGN LEGEND:
(A) SPAN MOUNT 31-0823 (NO TURN ON RED)
(B) REMOVE EXISTING 31-0817 AND INSTALL NEW 31-0817 (NO TURN ON RED)
(C) INSTALL 31-0283Z ( )
(D) REMOVE EXISTING 31-0283Z AND INSTALL NEW 31-0283Z( )
(L) REMOVE 41-4236 ( )



NOTES:
STATE TO MAINTAIN ALL PAVEMENT MARKINGS AND SIGNING ON ROUTE 53 AND ROUTE 57 AND STOP BAR ON NORFIELD RD.

TOWN OF WESTON TO MAINTAIN ALL OTHER PAVEMENT MARKINGS AND SIGNS.

TOWN OF WESTON TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT.

(S) BAR TYPE CROSSWALK (16" - 16" x 8')- STATE MAINTAINED

SPAN POLE INFORMATION
(X)(Y) HEIGHT 28', B.C. 20", LOAD AT YIELD 6,100 lbs., INSTALLED

SCALE 1" = 40'

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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
DIRECTIONAL ARW. FOR PUSH BUTTON
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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : MJC
DESIGNED BY : JED
DATE PLOTTED : 7/11/2011

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF WESTON
ROUTE 53 & 57 (WESTON RD.) AT
ROUTE 53 (NORFIELD RD.) AND NORFIELD RD.

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

INSTALL LOOP DETECTORS CENTERED IN LANE AND 8' APART UNLESS OTHERWISE SPECIFIED.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

CABINET DOOR TO OPEN FIELD SIDE.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE (L) (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE (M). TWIST LOOP DETECTOR SAWCUT SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

UTILITY ENGINEERS CONSULTED DURING DESIGN: AT&T: MIKE BRECHER PHONE: (203) 238-5201, CL&P: RICH MATHEW PHONE: (203) 845-3487.

ESTIMATED LOAD ON UTILITY POLES: CL&P #31105 = 3,348 lbs., CL&P #1258 = 2,491 lbs.

SIGNAL SPAN TO BE ATTACHED TO ONE EYE BOLT ON CL&P #31005 AND CL&P 1258. DETAILS ARE SHOWN ON STANDARD SHEETS.

CONTRACTOR TO EXERCISE CAUTION WHILE EXCAVATING SPAN POLE (X) FOUNDATION TO NOT DISTURB STONE WALL.

SPAN ATTACHMENT ON CL&P 31105 & CL&P 1258 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

INSTALL 14/5 (PRE-EMPTION) CABLE OVERHEAD FROM STEEL POLE (Y) TO THE UTILITY POLE CL&P 31105 AND CONTINUE OVERHEAD ON NORFIELD RD. TO THE UTILITY POLE CL&P 31100 AND THEN LEAVE 100' COIL OF WIRE IN THE HANDHOLE (N) NEAR THE 2ND DRIVE OF THE FIRE STATION. COORDINATE WITH TOWN.

TOWN TO INSTALL PUSHBUTTON IN FIREHOUSE AND INSTALL CABLE FROM FIREHOUSE TO HANDHOLE (N).

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

(E) ERADICATE EXISTING CROSSWALK ON SOUTHERN LEG OF INTERSECTION.

(F) INSTALL NEW PEDESTRIAN RAMPS (TYPE 2) ON THE NORTHEAST AND NORTHWEST CORNERS OF INTERSECTION PER SPECIAL PROVISIONS AND DETAILS SHEET.

(G) INSTALL PEDESTAL FOUNDATION ADJACENT TO R.O.W. AS SHOWN.

(I) REMOVE EXISTING CROSSWALK AND ASSOCIATED CROSSWALK SIGNING.

(J) INSTALL SPAN POLE FOUNDATION ADJACENT TO R.O.W. AS SHOWN. TRIM TREE BRANCHES AS NECESSARY.

(S) INSTALL BAR TYPE CROSSWALK (16" x 16" - 8' MIN.) WHERE SHOWN.

CONSTRUCTION NOTES for INT. No. 157-210 (REV. #)

ROUTE 53 & 57 (WESTON RD.) AT SCHOOL ROAD

INSTALL TIME CLOCK IN TRAFFIC SIGNAL CABINET. PROGRAM NEW CLOCK FUNCTIONS.

ESTABLISH TIME BASE COORDINATION AND REVISE CONTROLLER TIMINGS AS INDICATED BELOW.

MOVEMENT DIAGRAM

	PHASE 1	PHASE 2 (PRE-EMPTION 1)	PHASE 3	PHASE 4	PHASE 5
NONE	1, 2	1, 2, 3		4, 4	

NTOR	FLASH	P1 GRN	P1 CL	P1 CL	P2 GRN	P2 CL	P2 CL	P3 GRN	P3 CL	P3 CL	P4 GRN	P4 CL	P4 CL	P5 GRN	P5 CL	P5 CL
FACE # 1	Y	←G	←Y G	G	G	Y	R				R	R	R			
2	Y	G	G	G	G	Y	R				R	R	R			
3	Y	R	R	R	G	Y	R				R	R	R			
4	R	R	R	R	R	R	R				G	Y	R			
5	R	R	R	R	R	R	R				G	Y	R			
						← YIELD PT.										

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
MIN GRN	7	15		7	
WALK				9	
PED CLR				1	
VEH EXT		2.5		2	
MAX 1	7.0	27		14	
MAX 2	15	42		14	
YELLOW	3.0	4.2		3	
RED	0.1	2.5		2.0	
ADD INIT					
MAX INIT					
TBR					
TTR					
MIN GAP					
MODE	MAX RECALL	MIN RECALL	OFF	NON-LOCK	OFF
INT START		THIS PHASE			

DETECTORS			
IDENT	SIZE (WXL)	TURNS	MODE
D2	1.8 m x 1.8 m	5	PRESENCE
D2A	1.8 m x 1.8 m	4	PRESENCE
D2B	1.8 m x 1.8 m	3	PRESENCE
D2C	2.7 m x 1.8 m	4	PRESENCE
D4	1.8 m x 1.8 m	3	PRESENCE
D4A	1.8 m x 1.8 m	3	DELAY 8"
D4B	3.0 m x 1.8 m	3	DELAY 8"
D4C	6.1 m x 1.8 m	3	DELAY 8"

PROGRAM FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS SEC / % Ø1–Ø8
MAX 2	0700-0900 1400-1800	DAILY				
MAX 1	ALL OTHER TIMES					
CYCLE 1	0700-0900 1400-1800	DAILY	85	14	16	
CYCLE 2	0900-1400	DAILY	70	1	0	
FREE	ALL OTHER TIMES					

COORDINATION TYPE - TBC

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

REV #
INTERSECTION # 157-205

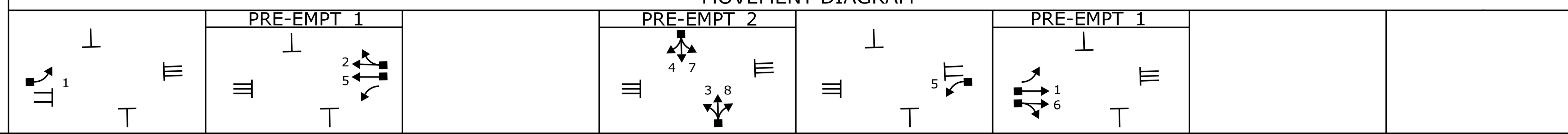
OFFICE OF ENGINEERING

TOWN: TOWN OF WESTON

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403
DRAWING NO. TCS-15
SHEET NO. **03.16**

MOVEMENT DIAGRAM



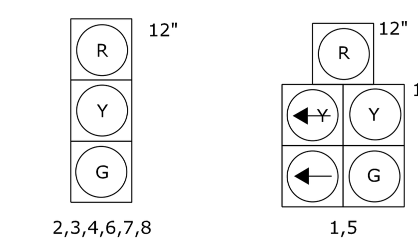
FACE #	FLASH	PHASE 1 GRN	PHASE 1 CL	PHASE 1 CL	PHASE 2 GRN	PHASE 2 CL	PHASE 2 CL	PHASE 3 GRN	PHASE 3 CL	PHASE 3 CL	PHASE 4 GRN	PHASE 4 CL	PHASE 4 CL	PHASE 5 GRN	PHASE 5 CL	PHASE 5 CL	PHASE 6 GRN	PHASE 6 CL	PHASE 6 CL	PHASE 7 GRN	PHASE 7 CL	PHASE 7 CL	PHASE 8 GRN	PHASE 8 CL	PHASE 8 CL
NTOR																									
1	Y	← R	←Y 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						
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	←Y R	R	R	R	R						
6	Y	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R						
7	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R						
8	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R						
						←YIELD POINT												←YIELD POINT							

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		7	5	15		
WALK				19				
PED CLR				1				
VEH EXT	1.0	2.5		1.5	1.0	2.5		
MAX 1	8	40		25	8	40		
MAX 2	8	40		25	8	40		
YELLOW	3.0	4.0		3.8	3.0	4.0		
RED	0.1	1.7		1.1	0.1	1.7		
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON LOCK	MIN RECALL	OFF	NON LOCK	NON LOCK	MIN RECALL	OFF	OFF
INT START		THIS PHASE				THIS PHASE		

ENERGY BY TOWN	ADDRESS #
MAINT LEVEL 1	SERVICE POLE CL&P 28499
UNMETERED SERVICE	

INTERSECTION # 158-209

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	4.0
ALT. RED	PARENT	1.7
ALT. PED. CLR.	NO	NO
HOLD GREEN	15	15
HOLD YELLOW	4.0	3.8
HOLD RED	1.7	1.1
HOLD PHASE	2&6	4
EXIT PHASE	4	1&5
EXIT CALL	NONE	NONE

OFFICE RECORD

STC # 158-1005-01 SM # N/A
SIGNAL REVISED:
UPGRADED SIGNAL EQUIPMENT, REVISED PHASING AND ADDED LEFT TURN LANES UNDER PROJECT 173-403

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF WESTPORT
U.S. ROUTE 1 (POST RD. WEST) AT
SYLVAN RD.

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	JRP	5/11	ZRC	4/11
DRAWN BY	JRP	5/11	RJC	5/11
CHECKED BY	PIO	5/11	MRM	4/11
SUBMITTED BY	MFM	6/11	LNC	5/11
APPROVED BY	[signature]		[signature]	
DATE	7/13/11		7/13/11	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	6'x 6'	3	PRESENCE
D2,D2B	6' x 6'	3	PRESENCE
D2A,D2C	6' x 6'	4	PRESENCE
D2D,D2E	6' x 6'	3	PRESENCE
D2F,D2G	6' x 6'	4	PRESENCE
D4	7' x 6'	3	PRESENCE
D4A	9' x 6'	3	PRESENCE
D4B	14' x 6'	3	PRESENCE
D4C	9' x 6'	3	PRESENCE
D5	6' x 6'	3	PRESENCE

PROGRAM / COORDINATION TYPE - CLOSED LOOP

FUNCTION	TIME	DAYS	CYCLE	OFFSET SEC	OFFSET %	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD Ø	SEC
FLASH	NONE														
MAX 1	ALL OTHER TIMES														
MAX 2	FUTURE														
PATTERN 1	0630-0930	M-F	70"	55	79	13/19	37/53		20/29	13/19	37/53				
PATTERN 2	0930-1700	SUN	70"	55	79	11/16	39/56		20/29	11/16	39/56				
	0930-1600	M-F	70"	55	79										
	0800-1930	SAT	70"	55	79										
PATTERN 5	1600-1830	M-F	90"	30	33	16/18	49/54		25/28	16/18	49/54				
FREE	ALL OTHER TIMES	DAILY													

PHASE SPLITS SEC / %

SYSTEM LOC	TECHNICAL NOTES
MASTER	STANDARD OVERLAP SKIP FEATURES APPLY
158-251	PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION
158-209	PHASE 2 & PHASE 6 DETECTORS TO BE NON-ACTUATING DURING COORDINATION
158-233	PHASES 1 & 5 TO DRIVE FACES 1 & 5 ←Y AND ← ONLY
158-210	PHASES 2 & 6 TO DRIVE FACES 1 & 5 R, Y & G
158-211	PHASE 2 ON TO OMIT PHASE 1
158-212	PHASE 6 ON TO OMIT PHASE 5
158-213	TIMINGS SHOWN REFLECT FREE OPERATION.
158-204	ACTUAL PHASE SPLITS TO BE DETERMINED BY
158-215	BY COORDINATION PROGRAM.
158-203	
158-228	
158-216	

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

DIVISION OF TRAFFIC ENGINEERING CADD

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

(E) INSTALL FOUNDATION ADJACENT TO AND WITHIN R.O.W.

(F) INSTALL FOUNDATION ADJACENT TO SIDEWALK.

(G) INSTALL PARALLEL SIDEWALK RAMP (TYPE 1).

(H) INSTALL DIAGONAL SIDEWALK RAMP (TYPE 4c).

LOOP DETECTORS TO BE CENTERED IN LANE AND 8' APART UNLESS OTHERWISE NOTED.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

CONTRACTOR TO ERADICATE AND INSTALL PAVEMENT MARKINGS AS INDICATED ON PAVEMENT MARKING CONSTRUCTION PLAN.

INSTALL STATE FURNISHED CONTROLLER AND CABINET ON TYPE IV FOUNDATION.

INSTALL NEW CONTROLLER CABINET ADJACENT TO THE EXISTING CONTROLLER.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

CABINET DOOR TO OPEN STREET SIDE.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: MICHAEL BRECHER PHONE: (203) 238-5201,
CL&P: JOHN SOCCI PHONE: (203) 845-3432.

CONTRACTOR TO COORDINATE WITH CL&P REPRESENTATIVE TO INSTALL AN ANCHOR BEHIND CL&P POLE #25017 AND CL&P #64687.

SPAN ATTACHMENT ON CL&P #28499, CL&P #25017 & CL&P 64687 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

INSTALL R.M.C. STAND-OFFS ON CL&P #28499, CL&P #25017 & CL&P #64687 UTLITY POLES.

ESTIMATED LOAD ON UTILITY POLES:
CL&P #28499: 3644 lbs.
CL&P #64687: 2871 lbs.
CL&P #25017: 3961 lbs.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

(K) REPLACE EXISTING TYPE II HANDHOLE WITH A 30" x 30" HANDHOLE AND EXTEND EXISTING TELEPHONE WIRE AND EXISTING 16/6 PAIR TO THE NEW CABINET.

CONTRACTOR TO INSTALL AUXILIARY TERMINATION CABINET ON RIGHT SIDE OF THE NEW CABINET.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

PRE-EMPTION NOTES

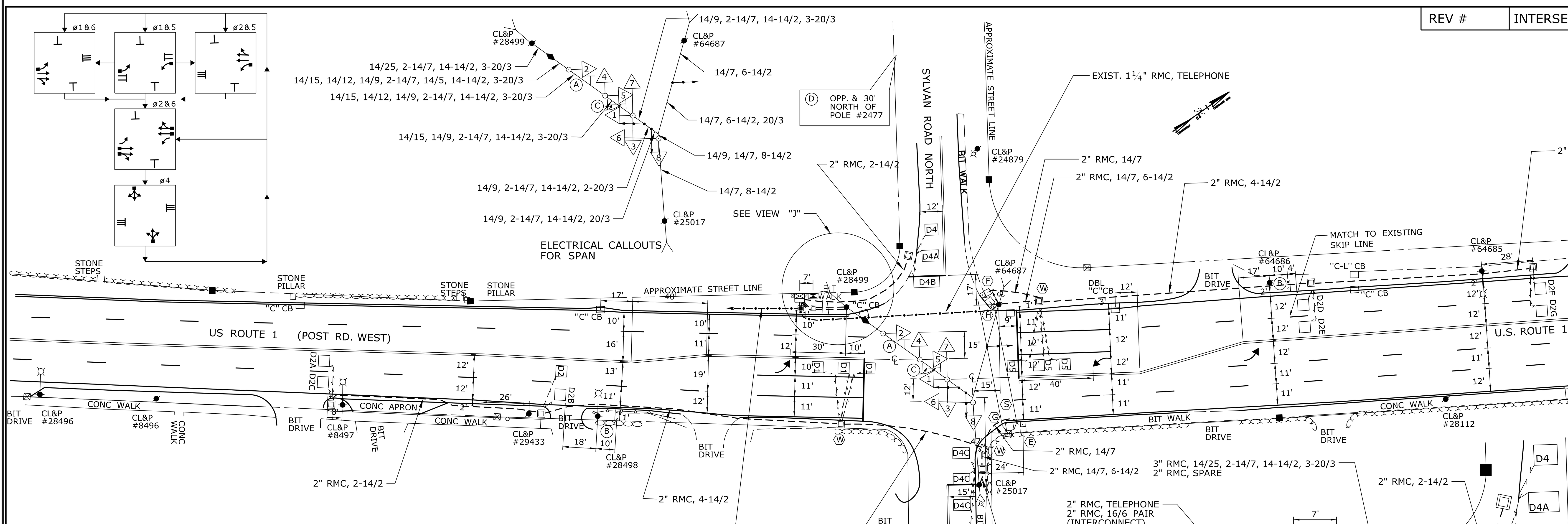
RELOCATE EXISTING AUXILIARY EQUIPMENT CABINET ON LEFT SIDE OF NEW CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

RELOCATE EXISTING PRE-EMPTION EQUIPMENT. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS.

STATE FORCES 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.

REV #	INTERSECTION # 158-209



CLOSED LOOP DETECTOR CHART

DETECTOR I.D.	ADDRESS #
D1 FRT. LOOPS	1
D1 REAR	9
D2	2
D2A	10
D2B	3
D2C	6
D2D	11
D2E	12
D2F	13
D2G	14
D4	4
D4A, D4B	7
D4C FRT. LOOPS (2)	8
D4C REAR LOOPS (2)	15
D5 FRT. LOOPS	5
D5 REAR	16

SCALE 1" = 40'

SIGN LEGEND:
(A) SPAN MOUNT 31-0823 (NO TURN ON RED)
(B) ERECT 31-0307 (↰↑↱)
(C) SPAN MOUNT 31-0135 (↰)
(D) ERECT 41-0836z (SIGNAL AHEAD)

NOTES:
- STATE TO MAINTAIN SIGNS AND MARKINGS ON ROUTE 1 AND ALL STOP BARS.
- TOWN OF WESTPORT TO MAINTAIN SIGNING AND ALL OTHER PAVEMENT MARKINGS ON SYLVAN ROAD NORTH AND SYLVAN ROAD SOUTH.
- TOWN OF WESTPORT TO OWN AND MAINTAIN EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT.
(S) 8' BAR TYPE CROSSWALK WITH 16" BARS AND SPACES.

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

REV #

INTERSECTION # 158-209

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DATE PLOTTED 7/11/2011

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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : JRP

DESIGNED BY : JRP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF WESTPORT
U.S. ROUTE 1 (POST RD. WEST) AT
SYLVAN RD.

OFFICE OF ENGINEERING

TOWN: WESTPORT

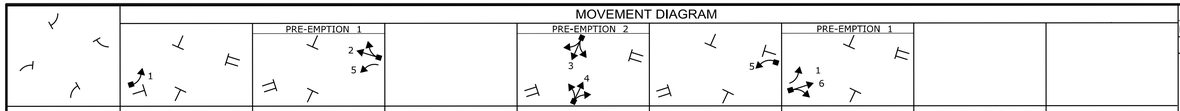
DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403

DRAWING NO. TCS-16

SHEET NO. 03.17

MOVEMENT DIAGRAM



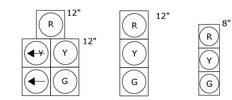
NTOR		PHASE 1			PHASE 2			PHASE 3			PHASE 4			PHASE 5			PHASE 6			PHASE 7			PHASE 8		
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
FACE # 1	Y	◄— R	◄-Y R	R	R	R	R				R	R	R	R	R	R	G	Y	R						
2	Y	R	R	R	G	Y	R				R	R	R	R	R	R	R	R	R						
3	R	R	R	R	R	R	R				G	Y	R	R	R	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	◄-Y R	R	R	R	R						
6	Y	R	R	R	R	R	R				R	R	R	R	R	R	G	Y	R						
7	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R						
8	R	R	R	R	R	R	R				G	Y	R	R	R	R	R	R	R						

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		9	5	15		
WALK				17				
PED CLR				1				
VEH EXT	1.5	3		2	1.5	3		
MAX 1	15	35		35	15	35		
MAX 2	10	25		25	10	25		
YELLOW	3	3.6		3.6	3	3.6		
RED	0.1	0.5		2.9	0.1	0.5		
ADD INIT								
MAX INIT								
TBR								
TTR								
MIN GAP								
MODE	NON LOCK	MIN RECALL	OFF	NON LOCK	NON LOCK	MIN RECALL	OFF	OFF
INT START		THIS PHASE				THIS PHASE		

ENERGY BY STATE	ADDRESS # N/A
MAINT LEVEL 1	SERVICE POLE - CL&P 28716
UNMETERED SERVICE	

INTERSECTION # 158-211

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS.

FACES 1,3,4,6,7 & 8 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.	NO	NO
HOLD GREEN	15	15
HOLD YELLOW	3.6	3.6
HOLD RED	0.5	2.9
HOLD PHASE	2&6	4
EXIT PHASE	2&6	1&5
EXIT CALL	NONE	NONE

OFFICE RECORD

STC # SM #

SIGNAL REVISED :

REPLACED ALL SIGNAL EQUIPMENT UNDER PROJECT 173-403.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF WESTPORT
U.S. ROUTE 1 (POST ROAD WEST) &
U.S. ROUTE 1 (POST ROAD EAST) AT
ROUTE 33 (RIVERSIDE AVE & WILTON RD.)

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER	FLK	4/11	BTB	04/11
DRAWN BY	JMF	9/11	BTB	04/11
CHECKED BY	JPO	6/11	MRM	04/11
SUBMITTED BY	JPO	6/11	LNC	06/11
APPROVED BY				
DATE	7/13/11		7/13/11	

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1A, D1B, D1C, D1D	6' x 6'	3	PRESENCE
D2	6' x 6'	3	PRESENCE
D4A	6' x 6'	3	PRESENCE
D4B	6' x 6'	3	PRESENCE
D5	6' x 6'	3	PRESENCE
D6	6' x 6'	3	PRESENCE
SD1	6' x 6'	3	PRESENCE
SD2	6' x 6'	3	PRESENCE
SD3	6' x 6'	3	PRESENCE
SD4	6' x 6'	3	PRESENCE
SD5	6' x 6'	3	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	FUTURE	
MAX 1	ALL OTHER TIMES	DAILY
MAX 2	0100-0500	DAILY
FREE	ALL TIMES	DAILY

COORDINATION TYPE - CLOSED LOOP

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

TECHNICAL NOTES

SYSTEM LOC	TECHNICAL NOTES
MASTER	STANDARD OVERLAP SKIP FEATURES APPLY
158-209	PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
158-251	PHASES 1 & 5 TO DRIVE FACES 1 & 5 ◄-Y AND ◄— ONLY.
158-233	PHASES 2 & 6 TO DRIVE FACES 1 & 5 R, Y & G.
158-210	PHASE 2 ON TO OMIT PHASE 1.
158-211	PHASE 6 ON TO OMIT PHASE 5.
158-212	
158-213	PHASE 2 & 6 ARTERY LOOPS TO BE NON-ACTUATING DURING COORDINATION.
158-214	
158-215	TIMINGS SHOWN REFLECT FREE OPERATION.
158-203	ACTUAL TIMINGS TO BE DETERMINED BY CLOSED
158-228	LOOP COORDINATION UNIT.
158-216	

LEGEND:

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

DIVISION OF TRAFFIC ENGINEERING CADD

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

CABINET DOOR TO OPEN STREET SIDE.

INSTALL STATE FURNISHED CONTROLLER AND CABINET ON TYPE IV FOUNDATION.

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

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

(I) INSTALL CAST IRON HANDHOLE COVER.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

SERIES SPLICE SEGMENTED LOOPS PER LANE.

INSTALL SYSTEM DETECTORS IN CENTER OF LANE. CONTRACTOR TO FIELD LOCATE PRIOR TO INSTALLATION TO AVOID DAMAGED PAVEMENT.

UTILITY ENGINEERS CONSULTED DURING DESIGN:
AT&T: MIKE BRECHER PHONE: (203) 238-5201,
CL&P: JOHN SOCCI PHONE: (203) 845-3432.

(M) INSTALL COMBINATION POLE WITH LUMINAIRE IN SIDEWALK ADJACENT TO BACK EDGE.

(Q) INSTALL COMBINATION POLE WITH LUMINAIRE TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

COORDINATE THIS REVISION WITH CONNECTICUT D.O.T. UNIT 1511. D.O.T. CONTACT MR. JAMES NESCI AT 258-0346 AT LEAST 48 HRS PRIOR TO REVISION.

PRE-EMPTION NOTES

RELOCATE EXISTING OPTICAL DETECTORS ON TO NEW SPAN.

RELOCATE EXISTING AUXILIARY EQUIPMENT CABINET FROM EXISTING CONTROLLER CABINET TO LEFT SIDE OF NEW CONTROLLER CABINET.

RELOCATE EXISTING PRE-EMPTION EQUIPMENT. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS.

STATE FORCES TO INSTALL A SWITCH IN THE CONTROLLER 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.

SIGN LEGEND:

(A) SPAN MOUNT 31-0823 (NO TURN ON RED)
(B) SPAN MOUNT 31-0135 (ONLY)
(C) ERECT 31-0282 ( )
(D) EXIST 31-0282 ( )
(E) REPLACE 31-0282 ( )
(F) EXIST 31-0802 (STOP HERE ON RED)
(G) EXIST 31-0802 (STOP HERE ON RED)

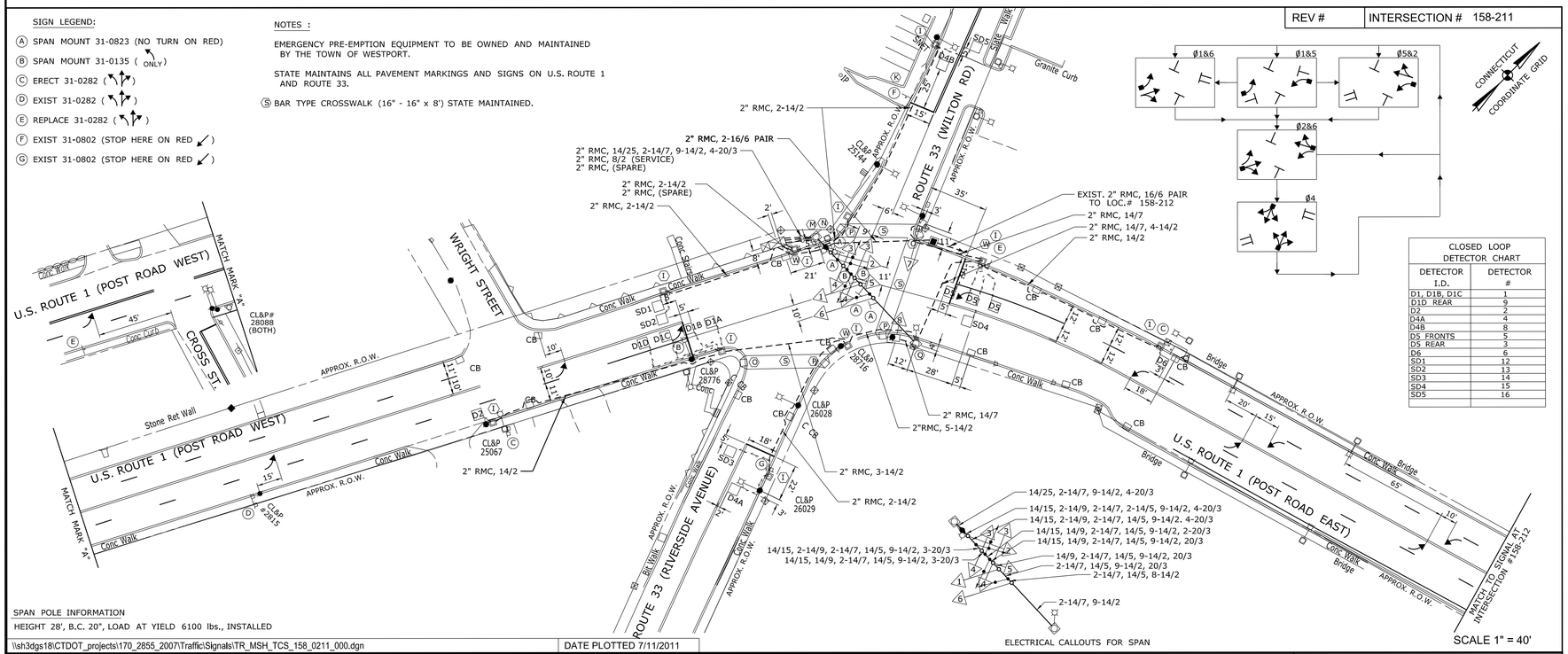
NOTES :

EMERGENCY PRE-EMPTION EQUIPMENT TO BE OWNED AND MAINTAINED BY THE TOWN OF WESTPORT.

STATE MAINTAINS ALL PAVEMENT MARKINGS AND SIGNS ON U.S. ROUTE 1 AND ROUTE 33.

(S) BAR TYPE CROSSWALK (16" - 16" x 8') STATE MAINTAINED.

REV # | INTERSECTION # 158-211



CLOSED LOOP DETECTOR CHART	
DETECTOR I.D.	DETECTOR #
D1, D1B, D1C	1
D1D REAR	9
D2	2
D4A	4
D4B	8
D5 FRONTS	5
D5 REAR	3
D6	6
SD1	12
SD2	13
SD3	14
SD4	15
SD5	16

SIGNING AND PAVEMENT MARKINGS:

INSTALL ALL STOP BARS AS SHOWN.

(O) INSTALL TYPE 4B SIDEWALK RAMP.
(P) INSTALL TYPE 1 SIDEWALK RAMP.
(N) HAND CONTROL BOX TO BE INSTALLED THIS CORNER.
(K) TRIM TREE CANOPY TO PROVIDE UNOBSTRUCTED VIEW OF SIGN (F) AND 270' ADVANCE VISIBILITY DISTANCE TO APPROACH SIGNAL HEADS.

NO.	DATE	INIT.	DESCRIPTION

REVISIONS

REV # | INTERSECTION # 158-211

SPAN POLE INFORMATION

HEIGHT 28', B.C. 20", LOAD AT YIELD 6100 lbs., INSTALLED

\\sh3dgs18\CTDOT_projects\170_2855_2007\Traffic\Signals\TR_MSH_TCS_158_0211_000.dgn

DATE PLOTTED 7/11/2011

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
SD SYSTEM DETECTOR
EXISTING CONTROLLER
PROPOSED HANDHOLE
EXISTING HANDHOLE
SIDEWALK RAMP
SONIC DETECTOR
GUY WIRE
LOOP DETECTOR
MAGNETIC DETECTOR
CABLE CLOSURE

DRAWN BY : JMF

DESIGNED BY : FLK

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF WESTPORT
U.S. ROUTE 1 (POST RD. WEST) &
U.S. ROUTE 1 (POST RD.EAST) AT
ROUTE 33 (RIVERSIDE AVE & WILTON RD.)

OFFICE OF ENGINEERING

TOWN: WESTPORT

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403

DRAWING NO. TCS-17

SHEET NO. 03.18

MOVEMENT DIAGRAM

NONE	PHASE 1	PHASE 2	PHASE 3	PHASE 4 (PRE-EMPT 1)	PHASE 5	PHASE 6	PHASE 7	PHASE 8
	6, 1, 2	4, 3, 1, 2		6, 5, 4				

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	G	Y	R				R	R	R												
2	Y	G	G	G	G	Y	R				R	R	R												
3	Y	R	R	R	G	Y	R				R	R	R												
4	Y	R	R	R	G	Y—►	R—►				R—►	R Y►	R												
5	R	R	R	R	R	R	R				G	Y	R												
6	R	R—►	R Y►	R	R	R	R				G	Y—►	R—►												
7	R	R	R	R	R	R	R				G	Y	R												

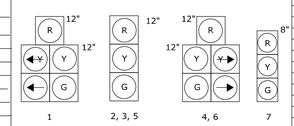
◄—YIELD POINT

INTERVALS	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
MIN GRN	5	15		7				
WALK				14				
PED CLR				1				
VEH EXT	2	2.5		2				
MAX 1	8	45		20				
MAX 2	10	45		20				
YELLOW	3.0	4.9		3.0				
RED	1	1.2		1				
ADD INIT		0.8						
MAX INIT		23						
TBR								
TTR								
MIN GAP		2.5						
MODE	MIN. RECALL	MIN. RECALL	OFF	NON-LOCK	OFF	OFF	OFF	OFF
INT START		THIS PHASE						

ENERGY BY	STATE	ADDRESS #	
MAINT LEVEL	5	SERVICE POLE	SNET #1114
METERED SERVICE			

INTERSECTION # 167-205

SIGNAL FACES



ALL INDICATIONS TO HAVE LED LAMPS
FACE 7 TO HAVE TUNNEL VISORS

OFFICE RECORD

REVISION #

STC # SM # N/A

SIGNAL REVISED
REPLACED SIGNAL EQUIPMENT AND ADDED PRE-EMPTION UNDER PROJECT 173-403.

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.	NO
HOLD GREEN	15
HOLD YELLOW	3.0
HOLD RED	1.0
HOLD PHASE	4
EXIT PHASE	1
EXIT CALL	NONE

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE
D1	25'X6'	3	PRESENCE
D1A	10'X6'	3	8" DELAY
D1B	8'X6'	3	8" DELAY
D1C	6'X6'	3	8" DELAY
D2, D2A	6'X6',6'x6'	3	PRESENCE
D2B	6'X6'	4	PRESENCE
D2C	6'X6'	4	PRESENCE
D2D	6'X6'	4	PRESENCE
D2E	6'X6'	4	PRESENCE
D4	6'X6'	3	PRESENCE

PROGRAM

FUNCTION	TIME	DAYS
FLASH	0000 - 0500	DAILY
MAX 1	ALL OTHER TIMES	
MAX 2	1600 - 1830	M-F
PATTERN 1	0630 - 0900 1400 - 1830	M-F
PATTERN 2	FUTURE	
PATTERN 3	FUTURE	
FREE	ALL OTHER TIMES	

COORDINATION TYPE - TIME CLOCK/TBC

CYCLE	OFFSET SEC	OFFSET %	PHASE SPLITS Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	PERMIS PERIOD Ø	SEC
80	12	15										

SYSTEM LOC	TECHNICAL NOTES
MASTER	STANDARD OVERLAP SKIP FEATURES APPLY
167-214	PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
167-205	ARTERY PHASE LOOPS TO BE NON-ACTUATING DURING COORDINATION.
	D1 TO EXTEND PHASE 1 ONLY.

LEGEND:

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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & CONSTRUCTION
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF WOODBRIDGE
ROUTE 63 (AMITY ROAD)
AT
ROUTE 114 (CENTER ROAD)

REV #	TRAFFIC	DATE	ELECTRICAL	DATE
ENGINEER				
DRAWN BY				
CHECKED BY				
SUBMITTED BY	GM2 ASSOCIATES, INC.			
APPROVED BY				
DATE	7/12/2011		7/12/2011	

CONSTRUCTION NOTES :

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTAL, AND HANDHOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MINIMUM 3 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.

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

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

CABINET DOOR TO OPEN FIELD SIDE.

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR IF NO CURB, 2' BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE (H) (WITH NO SPLICES) & THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE (I). TWIST LOOP DETECTOR. SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL R.M.C. STAND-OFFS ON ALL UTILITY POLES.

INSTALL LOOP DETECTORS IN THE CENTER OF LANE AND 8 FEET APART UNLESS OTHERWISE SPECIFIED.

COORDINATE AND SCHEDULE THE FOLLOWING WORK BY UTILITY COMPANIES:
TWO WEEKS PRIOR TO INSTALLATION CONTACT UNITED ILLUMINATING COMPANY REPRESENTATIVE MR. ROBERT COLLIER AT (203) 926-5234.

ESTIMATED LOAD ON UTILITY POLES:
SNET #1114: 2200 lbs.
SNET #1115: 3100 lbs.

SIGNAL SPAN TO BE ATTACHED TO ONE "EYE" BOLT ON SNET #1114 AND SNET #1115. SEE DETAILS IN STANDARD SHEETS.

(Y) - PULL OFF TO BE IN LINE WITH GUY WIRE. SEE EYE BOLT AND ANCHOR INSTALLATION DETAILS IN CONNDOT STANDARD SHEETS.

2' PULL OFF AT SNET #1115

SPAN ATTACHMENTS ON SNET #1114 AND SNET #1115 TO HAVE A MINIMUM CLEARANCE OF 12" BELOW SECONDARY & 40" ABOVE HIGHEST COMMUNICATIONS.

INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' FROM CURBLINE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

CONTRACTOR TO HAVE UTILITY COMPANY INSTALL GUY WIRE ANCHORS ON SNET #1114 AND SNET #1115.

PRE-EMPTION CONSTRUCTION NOTES:

INSTALL AUXILIARY EQUIPMENT CABINET ON RIGHT SIDE OF CONTROLLER CABINET. INSTALL PRE-EMPTION EQUIPMENT IN AUXILIARY CABINET.

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.

(1) REINSTALL EXISTING ROUTE GUIDE SIGNS 7 FEET ABOVE THE PAVEMENT.

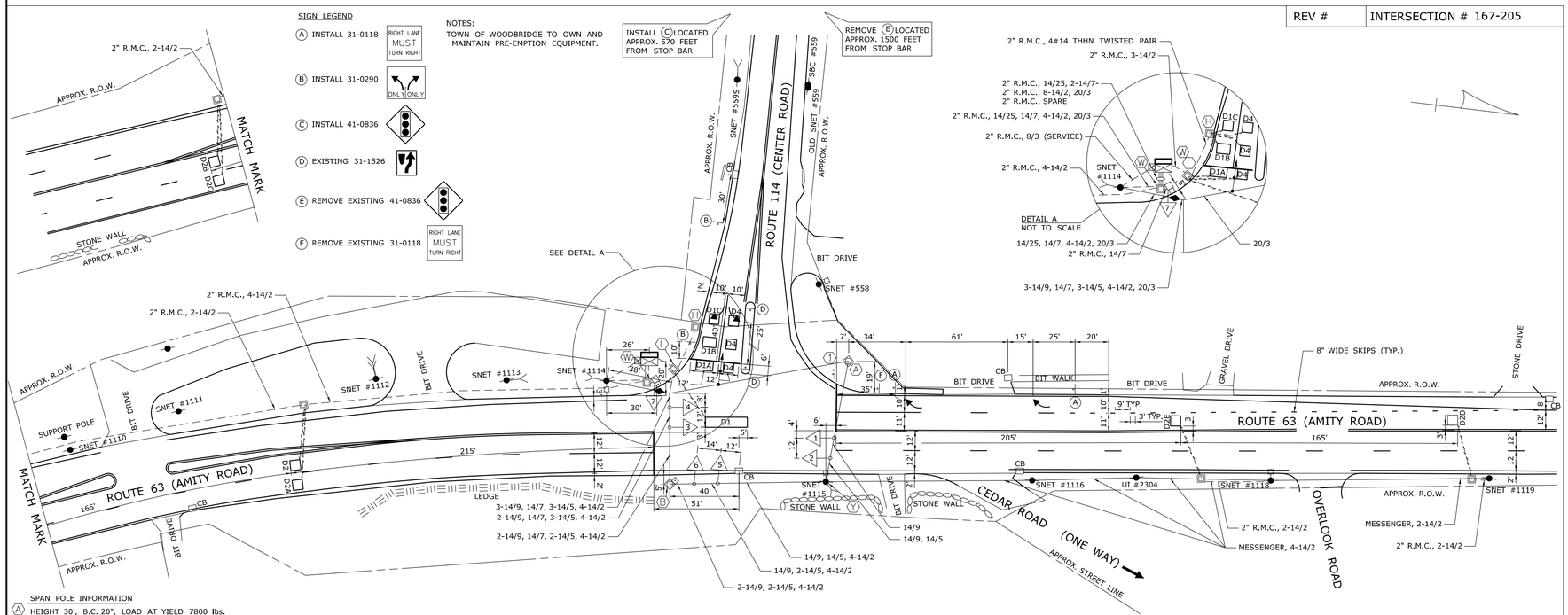
CONTRACTOR TO INSTALL/ERADICATE PAVEMENT MARKINGS AS INDICATED BELOW:

- INSTALL ALL STOP BARS AS SHOWN.
- INSTALL 40' LANE LINE AND PAVEMENT MARKING ARROWS ON EB RTE 114 AS SHOWN.
- ERADICATE EXISTING PAVEMENT MARKING ARROWS, LANE LINE AND EDGE LINE ON SB RTE 63 AND INSTALL NEW PAVEMENT MARKING ARROWS, LANE LINE, SKIP LINES, AND EDGE LINE AS SHOWN.

SIGN LEGEND

(A) INSTALL 31-0118 (RIGHT LANE MUST TURN RIGHT)
(B) INSTALL 31-0290 (ONLY ONLY)
(C) INSTALL 41-0836
(D) EXISTING 31-1526
(E) REMOVE EXISTING 41-0836
(F) REMOVE EXISTING 31-0118 (RIGHT LANE MUST TURN RIGHT)

NOTES:
TOWN OF WOODBRIDGE TO OWN AND MAINTAIN PRE-EMPTION EQUIPMENT.



SPAN POLE INFORMATION
(A) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs.
(B) HEIGHT 30', B.C. 20", LOAD AT YIELD 7800 lbs.

V:\173_403_CTDOT_TRAFFIC_SIGNALS\Traffic\TR_MSH_TCS_167205_173_403.dgn | DATE PLOTTED 7/12/2011

SCALE 1" = 40'

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

DRAWN BY : GM2
DESIGNED BY : GM2

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

TOWN OF WOODBRIDGE
ROUTE 63 (AMITY ROAD)
AT
ROUTE 114 (CENTER ROAD)

REV #	INTERSECTION # 167-205

NO.	DATE	INIT.	DESCRIPTION

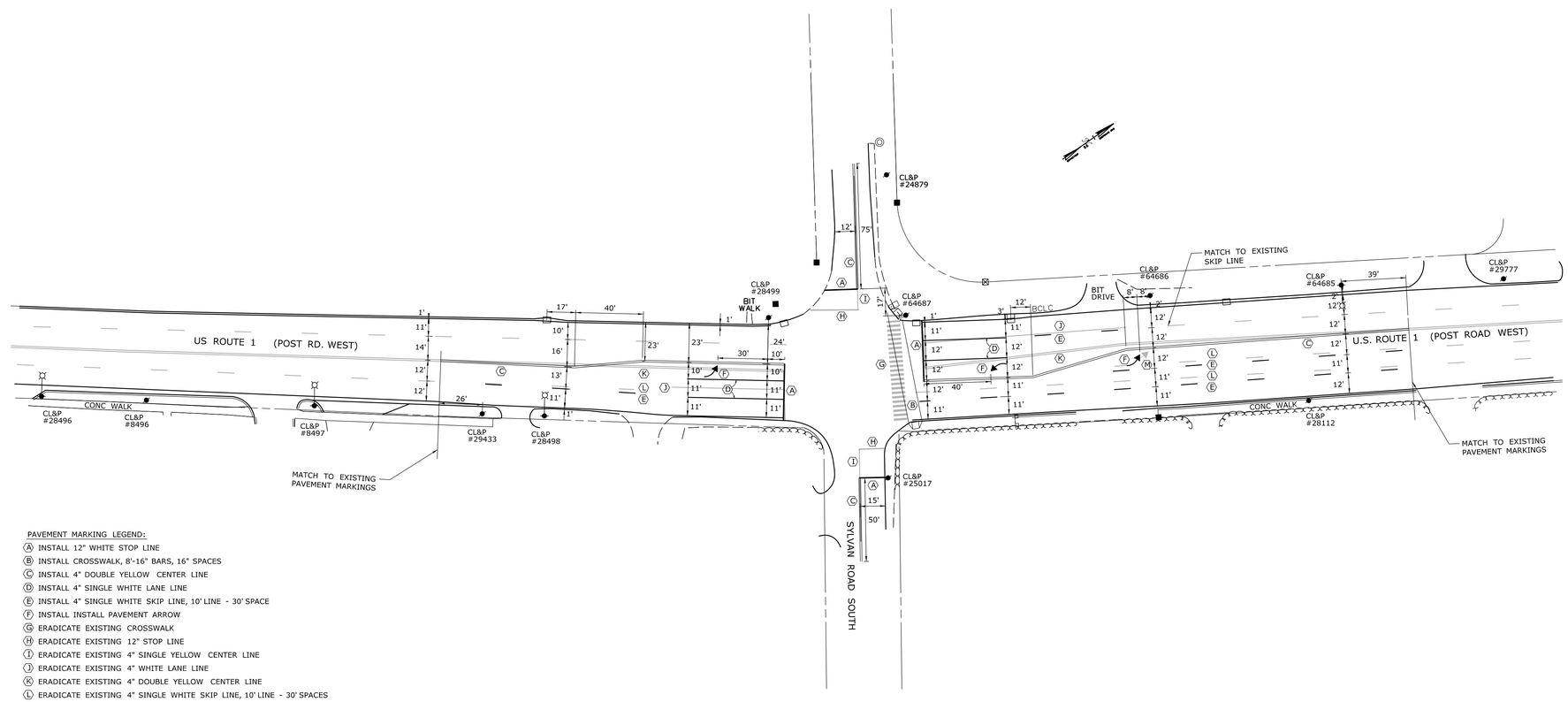
REVISIONS

TOWN: TOWN OF WOODBRIDGE

DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN

PROJECT NO. 173-403
DRAWING NO. TCS-18
SHEET NO. 03.19

REV #
INTERSECTION # 167-205



PAVEMENT MARKING LEGEND:

- (A) INSTALL 12" WHITE STOP LINE
- (B) INSTALL CROSSWALK, 8'-16" BARS, 16" SPACES
- (C) INSTALL 4" DOUBLE YELLOW CENTER LINE
- (D) INSTALL 4" SINGLE WHITE LANE LINE
- (E) INSTALL 4" SINGLE WHITE SKIP LINE, 10' LINE - 30' SPACE
- (F) INSTALL INSTALL PAVEMENT ARROW
- (G) ERADICATE EXISTING CROSSWALK
- (H) ERADICATE EXISTING 12" STOP LINE
- (I) ERADICATE EXISTING 4" SINGLE YELLOW CENTER LINE
- (J) ERADICATE EXISTING 4" WHITE LANE LINE
- (K) ERADICATE EXISTING 4" DOUBLE YELLOW CENTER LINE
- (L) ERADICATE EXISTING 4" SINGLE WHITE SKIP LINE, 10' LINE - 30' SPACES
- (M) ERADICATE EXISTING PAVEMENT ARROW

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

Plotted Date: 7/11/2011

DESIGNER/DRAFTER: **JRP**

CHECKED BY: **PIO**

SCALE IN FEET

0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\TR_MSH_PVT_158_0209_000.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:

VARIOUS SIGNALS PROJECT
No. 173-403

TOWN:

TOWN OF WESTPORT

DRAWING TITLE:

PAVEMENT MARKING CONSTRUCTION PLAN

PROJECT NO. **173-403**

DRAWING NO. **PVT-1**

SHEET NO. **03.20**

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

R3-2

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

R3-3

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

R3-4

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

R3-5

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

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

R3-7L / R3-7R

LEFT LANE MUST TURN LEFT

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

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.
7.50	36X30		2	.080

ONLY ONLY
31-0282 31-0283

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

ONLY ONLY
31-0295 31-0219

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

ONLY ONLY
31-0222 31-0223

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30X30		1	.080
8.75	42X30	31-0279	2	.100

R3-8b

ONLY ONLY

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

ONLY ONLY
31-0307 31-0372

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

ONLY

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

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

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

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

R5-10c

PEDESTRIANS PROHIBITED

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

(R) (D) (P) (NO ARROW) (L)

HANDICAPPED PARKING PERMIT REQUIRED
VIOLATORS WILL BE FINED MIN $150

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) (D) (L)

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) (D) (L)

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

NOTES:

FOR METRIC SEE CONVERSION CHART.

1. THE LEGEND "S.T.C." 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
2	6-2010	INCLUDED SIGNS TO MEET 2009 MUTCD REQUIREMENTS.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: D. K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: 7/5/2011

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: INSTALALTION & REIVISION OF TRAFFIC CONTROL SIGNALS IN DISTRICT 3

TOWN: VARIOUS

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

PROJECT NO. 173-403
DRAWING NO. GS-1
SHEET NO. 03.21

Filename: CTDOT_TRAFFIC_GD.dgn

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

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4008	1	.080
16.00	48	41-4058	2	.100

AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-4007	1	.080
16.00	48	41-4057	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
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

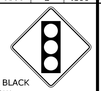
AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
6.25	30	41-0501	1	.080
9.00	36	41-0502	1	.080
16.00	48	41-0503	2	.100

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

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

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

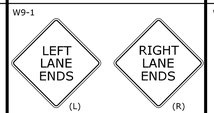
W8 - SERIES

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

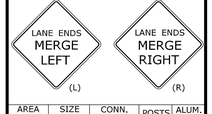
W9 - SERIES

W9-1

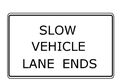


AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4443L	1	.080
9.00	36	41-4440R	1	.080
16.00	48	41-4444L	2	.100
16.00	48	41-4445R	2	.100

W9-2



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



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

W10 - SERIES

W10-1

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

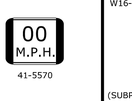
W11-8

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.
9.00	36	41-4215	1	.080
4.00	24	41-4212	1	.080
16.00	48	41-4214	2	.100



(SUBPLATE)

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

W12-2

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

(SUBPLATE)

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

W13 - SERIES

W13-1

41-5568
41-5569
41-5572

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

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

W13-3

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

W16 - SERIES

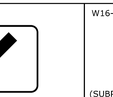
W16-2a

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

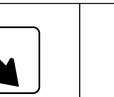
W16-7PL



(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

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.

THIS SIGN ADDED FOR THIS PROJECT ONLY.

REV.	DATE	REVISION DESCRIPTION
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: D. K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: 7/6/2011

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_GD.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
INSTALLATION & REVISION OF TRAFFIC CONTROL SIGNALS IN DISTRICT 3

TOWN: VARIOUS

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

PROJECT NO. 173-403
DRAWING NO. GS-2
SHEET NO. 03.22

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

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 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

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

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
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"	300	42"	1050	72"	1800
18"	450	48"	1200	78"	1950
24"	600	54"	1350	84"	2100
30"	750	60"	1500	90"	2250
36"	900	66"	1650	96"	2400

DESIGNER/DRAFTER: D. K. SWINBURNE
CHECKED BY: L.N. CONROY
Plotted: 7/5/2011

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_GD.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
INSTALLATION & REVISION OF TRAFFIC CONTROL SIGNALS IN DISTRICT 3

TOWN: VARIOUS

PROJECT NO. 173-403

DRAWING NO. GS-3

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

SHEET NO. 03.23