

TECHNICAL NOTES

STANDARD OVERLAP SKIP FEATURES APPLY
 PHASE 2 ON TO OMIT PHASE 1
 PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.
 ① PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.
 ② COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CHANGE INTERVAL.
 DETECTION ZONE D1 TO CALL PHASE 1 ONLY.

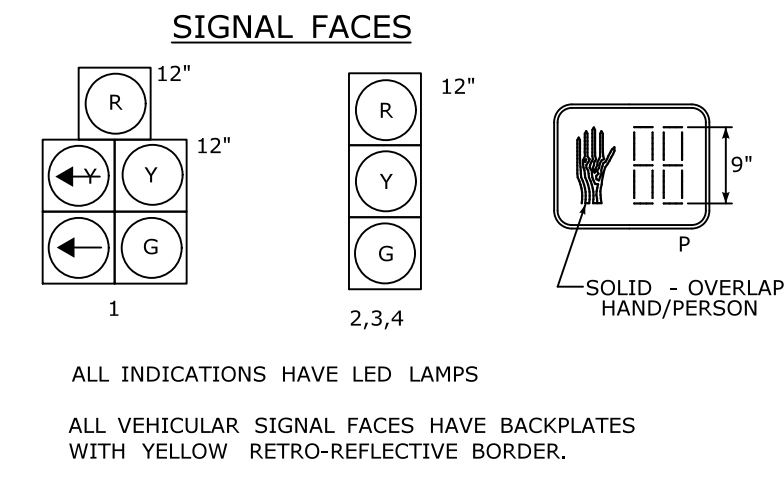
REV #	OFFICE RECORD	SM # N/A	SIGNAL REVISED:
	TIR # N/A		
	REPLACED SIGNAL EQUIPMENT UNDER STATE PROJECT NO. 0171-0434.		

IDENT	SIZE (WxL)	TYPE	MODE	SYSTEM LOC	COORDINATION TYPE: NONE				CYCLE	OFFSET
					FUNCTION	PROGRAM	TIME	DAYS		
D1	8' X 30'	360	PRESENCE		FLASH	NONE				
D2	8' X 6'	THERMAL	PRESENCE							
D2A	8' X 6'	THERMAL	PRESENCE		MAX 1	ALL OTHER TIMES				
D2B	8' X 6'	THERMAL	PRESENCE		MAX 2	FUTURE				
D2C	8' X 6'	THERMAL	PRESENCE							
D4	SEE PLAN	360	8" DELAY							

PRE-EMPTION SETTINGS

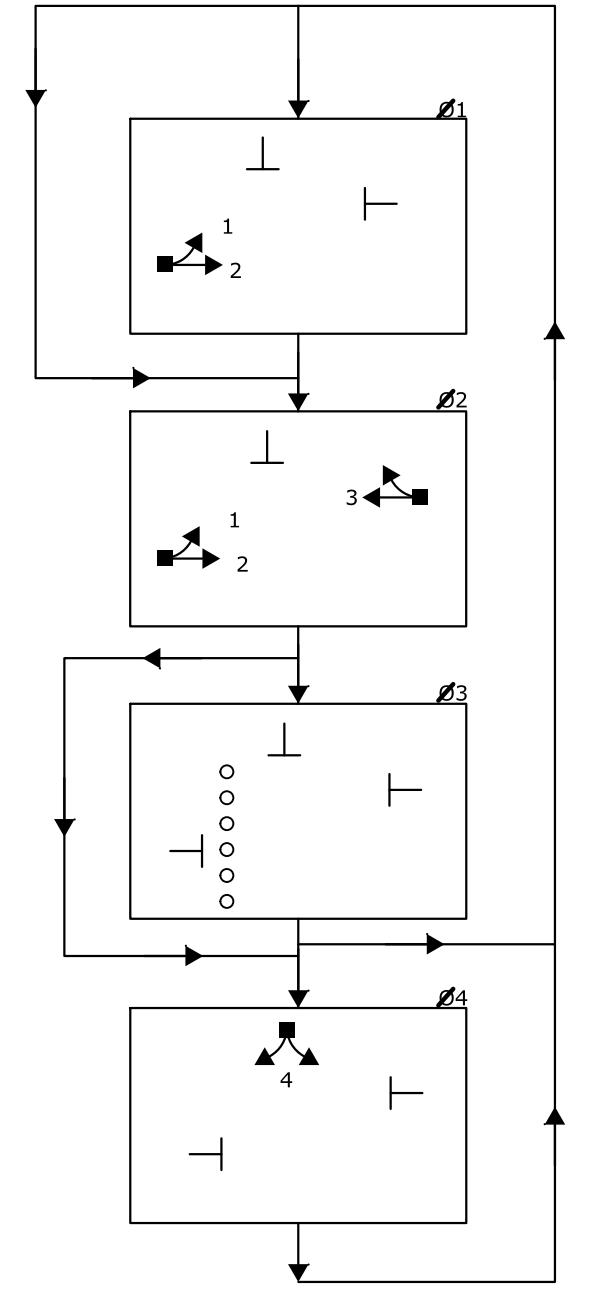
	PRE-EMPT 1
PRIORITY	NO
DET. LOCK	YES
DELAY	0
ALT. MIN. GRN	5
ALT. YELLOW	PARENT
ALT. RED	PARENT
ALT. PED. CLR.	7
HOLD GREEN	18
HOLD YELLOW	4.0
HOLD RED	2.6
HOLD PHASE	2
EXIT PHASE	4
EXIT CALL	NONE

PRELIMINARY



CONSTRUCTION NOTES

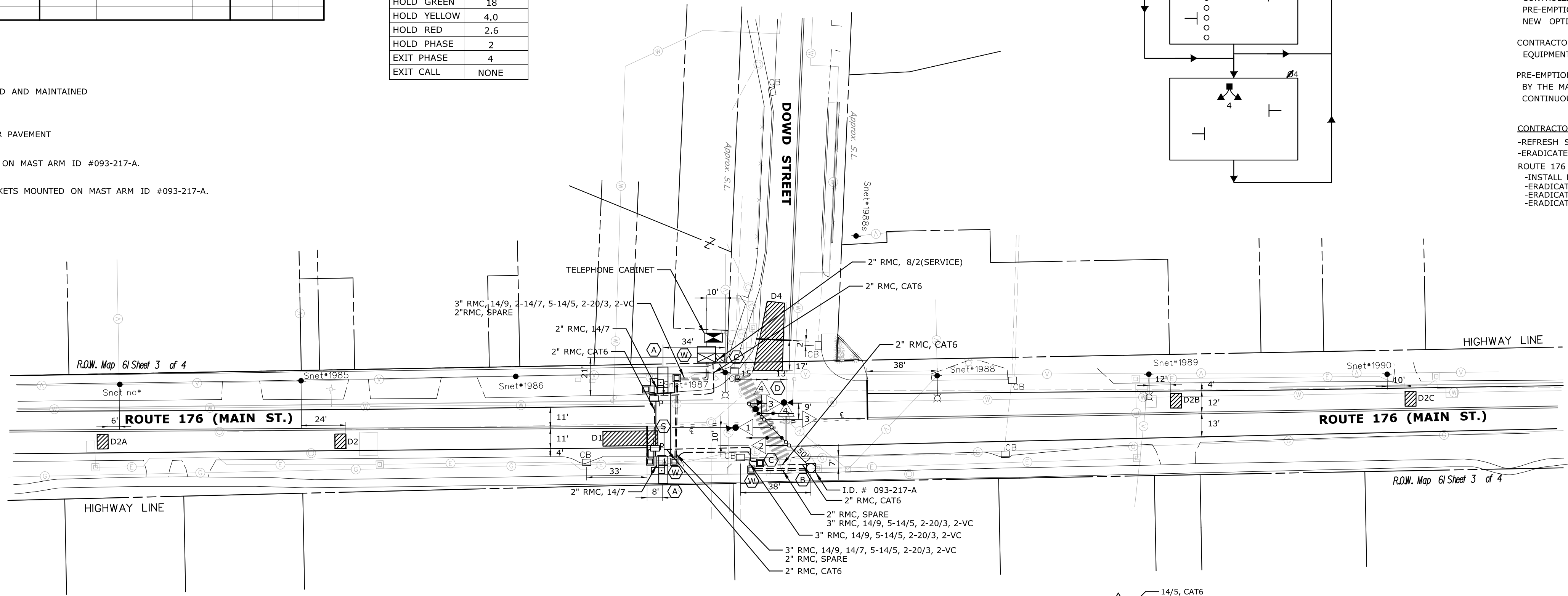
ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.
 STATE FORCES TO STAKE ALL R.O.W. PRIOR TO EXCAVATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.
 THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE NOTIFY THE ENGINEER AND CONTACT THE DIVISION OF TRAFFIC ENGINEERING.
 REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISION.
 (A) CONSTRUCT TYPE 13 SIDEWALK RAMP PER GUIDE SHEETS.
 INSTALL PEDESTAL FOUNDATIONS ADJACENT TO LANDING AREAS.
 (B) INSTALL MAST ARM FOUNDATION ADJACENT TO FRONT SIDE OF THE SIDEWALK.
 (C) REMOVE EXISTING CONCRETE SIDEWALK RAMP, FURNISH AND PLACE TOPSOIL, ESTABLISH TURF, INSTALL EROSION CONTROL MATTING AND CURB. WORK TO BE PAID UNDER ITEMS 0202513, 0944000, 0950019A, 0950013, AND 0815001 RESPECTIVELY.
 (W) INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.
 VIDEO DETECTION NOTES
 (D) VIDEO DETECTION BY USE OF VIDEO-360 CAMERA MOUNTED ON MAST ARM ID #093-217-A.
 (E) INSTALL TWO THERMAL CAMERAS ON VERTICAL BRACKETS MOUNTED ON MAST ARM ID #093-217-A.



NOTES:

STATE TO MAINTAIN SIGNS AND PAVEMENT MARKINGS ON ROUTE 176 (MAIN ST.) AND ALL STOP BARS.
 EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT TO BE OWNED AND MAINTAINED BY THE TOWN OF NEWINGTON.
 (S) BAR TYPE CROSSWALK - STATE MAINTAINED
 TOWN OF NEWINGTON TO MAINTAIN SIGNS AND ALL OTHER PAVEMENT MARKINGS ON DOWD STREET.
 (D) VIDEO DETECTOR BY USE OF VIDEO 360 CAMERA MOUNTED ON MAST ARM ID #093-217-A.
 (E) INSTALL TWO VIDEO THERMAL CAMERAS ON VERTICAL BRACKETS MOUNTED ON MAST ARM ID #093-217-A.
 (W) 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

VIDEO 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 CONTROLLER CABINET.
 INSTALL RISER ON SNET #1987 UTILITY POLE.
 COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.
 ALL MAST ARM MOUNTED TRAFFIC SIGNALS ARE FIXED MOUNTED TO THE ARM BY USE OF ADJUSTABLE BRACKETS.
 CONTRACTOR TO VERIFY ALL MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.
 EMERGENCY PRE-EMPTION NOTES
 RELOCATE AUXILIARY EQUIPMENT CABINET FROM EXISTING CONTROLLER CABINET TO LEFT SIDE OF NEW CONTROLLER CABINET. RELOCATE EXISTING EMERGENCY PRE-EMPTION DETECTOR TO NEW MAST ARM. TEST PRE-EMPTION SYSTEM PRIOR TO AND AFTER RELOCATION IN ACCORDANCE WITH SPECIFICATIONS. INSTALL NEW OPTICAL DETECTOR ON MAST ARM.
 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:
 -REFRESH STOP BARS ON ROUTE 176 NORTH LEG AND DOWD STREET.
 -ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.
 ROUTE 176 SOUTH LEG:
 -INSTALL NEW STOP BAR
 -ERADICATE EXISTING CENTERLINE, LANE LINES, AND EDGE LINE THAT EXTENDS BEYOND NEW STOP BAR.
 -ERADICATE EXISTING CROSSWALK.
 -ERADICATE EXISTING STOP BAR ON ROUTE 176 SOUTH LEG.



2018 TRAFFIC COUNTS

A.M. PEAK HOUR (P.M. PEAK HOUR)

103(80)	20(22)
617(548)	432(691)

MAST ARM INFORMATION

ID #	APPROX. ARM ATTACHMENT HEIGHT	ARM LENGTH	CAMERA BRACKET LENGTH	VERTICAL RISER FOR CAMERA INSTALLED	YEAR
093-217-A	*	50'	10' VERT	10'	

*TO BE CALCULATED BY THE CONTRACTOR BASED ON FIELD CONDITIONS.

LEGEND

R, Y, G	PROPOSED WOOD SPAN POLE	○	PROPOSED CONTROLLER
←	EXISTING WOOD SPAN POLE	●	EXISTING CONTROLLER
→	PROPOSED STEEL SPAN POLE	□	EXISTING LOOP DETECTOR
↔	EXISTING STEEL SPAN POLE	⊗	PROPOSED MAGNETIC DETECTOR
↔	EXISTING STEEL SPAN POLE	⊙	EXISTING MAGNETIC DETECTOR
↔	EXISTING STEEL SPAN POLE	⊕	OPTICAL DETECTOR
↔	EXISTING STEEL SPAN POLE	⊖	VIDEO DETECTOR
↔	EXISTING STEEL SPAN POLE	⊗	AUDIO DETECTOR
↔	EXISTING STEEL SPAN POLE	⊙	VC VIDEO CAMERA CABLE
↔	EXISTING STEEL SPAN POLE	⊖	CABLE CLOSURE
↔	EXISTING STEEL SPAN POLE	⊗	WIRELESS SENSOR
↔	EXISTING STEEL SPAN POLE	⊙	WIRELESS RECEIVER
↔	EXISTING STEEL SPAN POLE	⊖	WIRELESS TRANSMITTER
↔	EXISTING STEEL SPAN POLE	⊗	GUY WIRE
↔	EXISTING STEEL SPAN POLE	⊙	PROPOSED HANDHOLE
↔	EXISTING STEEL SPAN POLE	⊖	EXISTING HANDHOLE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

<p style="font-size: 2em; color: red;">Preliminary</p> <p>05/05/2020 1:30:35 PM</p>	<p>TRAFFIC DESIGN ELECTRICAL DESIGN</p> <p>REV # INTERSECTION # 093-217</p>	<p>PROJECT NO. 0171-0434</p> <p>DRAWING NO. TCS-# #</p> <p>SHEET NO.</p>
<p>ROUTE 176 (MAIN STREET) AT DOWD STREET</p>	<p>ENERGY BY TOWN ADDRESS #</p> <p>MAINT LEVEL 5 SERVICE POLE SNET #1987</p>	<p>TOWN: NEWINGTON</p> <p>DRAWING TITLE: TRAFFIC CONTROL SIGNAL PLAN</p>
<p>APPROVED DATE</p>	<p>SCALE 1" = 40'</p>	<p>UNMETERED SERVICE</p>