

City of Lowell  
Transportation Department

Date: 10/12/2016  
Comp by: NHB

Item No.	Quantity	Unit	
816.01	1	LS	Traffic Control Signal-Location 1 Moore Street at Gorham Street
816.02	1	LS	Traffic Control Signal-Location 2 Dutton Street at Merrimack Street and Worthen Street at Merrimack Street
816.03	1	LS	Traffic Control Signal-Location 3 Market Street at Dutton Street
816.04	1	LS	Traffic Control Signal-Location 4 Market Street at Central Street
816.05	1	LS	Traffic Control Signal-Location 5 Central Street at Merrimack Street
832.1	83.5	SF	Warning-Regulatory and Route Marker – Alum. Panel (Type A)
851	1	LS	Safety Controls, Signs and Drums
854.1	174.9	SF	Pavement Marking Removal
864	81.9	SF	Pavement Arrow and Legends Reflectorized White (Painted)
874.2	4	EA	Traffic Sign Removed and Reset
999.99	11	DAYS	Police Detail Allowance

City of Lowell  
Transportation Department

Date: 10/12/2016  
Comp by: NHB

Item Number Description

816.01 Gorham at Moore

Major Item List

- 1 TS2 Type 1 Cabinet P-44 Size
- 1 Single Point Video Detection (1 Camera, VDP & Cables)
- 1 8 Ø TS2 Type 1 ATC Controller
- 1 MMU
- 2 Emergency Pre-emption Optical Detectors & Cable
- 1 Emergency Pre-emption 4 channel phase selector
- 1 Emergency Pre-emption system chassis
- 1 Emergency Pre-emption Strobe (white lens)
- 2 TS Post 8' Standard
- 2 TS Post 10' Standard
- 4 Pedestrian push buttons w/R10-3E and sign saddle
- 4 Pedestrian signal heads w/ countdown timers
- 3 Signal Head, three segment 12" lenses

\*Plus all cable, wire, labor, miscellaneous equipment and equipment to provide a fully functional traffic control signal

Item Number Description

816.02 Dutton and Merrimack/Merrimack and Worthen	
Major Item List	
1 TS2 Type 1 Cabinet P-44 Size	
1 Single Point Video Detection (1 Camera, VDP & Cables)	
1 GPS Time Synch Device	
1 8 Ø TS2 Type 1 ATC Controller	
1 MMU	

\*Plus all cable, wire, labor, miscellaneous equipment and equipment to provide a fully functional traffic control signal

832.1 Warning-Regulatory and Route Marker – Alum. Panel (Type A)				
Quantity	Type	Size	SF Total	Mount
2	R1-1	30"x30"	12.5	channel
2	R3-2	24"x24"	8	channel
2	R10-12	30"x36"	15	bracket
<b>Total</b>			<b>35.5</b>	<b>SF</b>

854.1 Pavement Marking Removal				
Quantity	Type	Size	SF Total	Color
70	Lane line	6"	35	White
<b>Total</b>			<b>35</b>	<b>SF</b>

864. Pavement Arrow and Legends Reflectorized White (Painted)				
Quantity	Type	Size	SF Total	Color
1	STOP	8'	20.8	White
1	Thru Arrow		12.5	White
4	Parking L		2	White
10	Parking T		5	White
<b>Total</b>			<b>40.3</b>	<b>SF</b>

874.2 Traffic Sign Removed				
Quantity	Type	Size	Total	
1		30"x36"	1	EA
<b>Total</b>			<b>1</b>	<b>EA</b>

City of Lowell  
 Transportation Department

Date: 10/12/2016  
 Comp by: NHB

Item Number Description

816.03 Dutton and Market	
Major Item List	
1 Removal signal head	
1 Adjust remaining signal heads	
1 Place left turn arrow on remaining signal head	

832.1 Warning-Regulatory and Route Marker – Alum. Panel (Type A)				
Quantity	Type	Size	SF Total	Mount
2	R10-12	30"x36"		15 bracket
<b>Total</b>			<b>15 SF</b>	

854.1 Pavement Marking Removal				
Quantity	Type	Size	SF Total	Color
3	Left Arrow		15.5	46.5
3	ONLY		20.8	62.4 White
<b>Total</b>			<b>108.9 SF</b>	

874.2 Traffic Sign Removed			
Quantity	Type	Size	Total
2	R3-8	30"x36"	2 EA
<b>Total</b>			<b>2 EA</b>

City of Lowell  
Transportation Department

Date: 10/12/2016  
Comp by: NHB

Item Number Description

816.04	Market and Central
	Major Item List
	1 Adjust timing to include exclusive ped phase
	1 Place lagging protected left turn arrow on Central NB

832.1	Warning-Regulatory and Route Marker – Alum. Panel (Type A)			
Quantity	Type	Size	SF Total	Mount
2	Guidance	36"x36"		18 channel post
<b>Total</b>			<b>18</b>	<b>SF</b>

874.2	Traffic Sign Removed			
Quantity	Type	Size	Total	
1	Yield to Ped		1 EA	
<b>Total</b>			<b>1 EA</b>	

City of Lowell  
 Transportation Department

Date: 10/12/2016  
 Comp by: NHB

Item Number Description

816.05	Merrimack and Central
	Major Item List
	1 Adjust ATC timings
	2 Replace green ball lenses with green left arrow lenses

832.1	Warning-Regulatory and Route Marker – Alum. Panel (Type A)			
Quantity	Type	Size	SF Total	Mount
2	R3-5	30"x36"	15	channel post
<b>Total</b>			<b>15</b>	<b>SF</b>

854.1	Pavement Marking Removal			
Quantity	Type	Size	SF Total	Color
2	Right arrow	15.5	31	White
<b>Total</b>			<b>31</b>	<b>SF</b>

864.	Pavement Arrow and Legends Reflectorized White (Painted)			
Quantity	Type	Size	SF Total	Color
2	ONLY	20.8	41.6	White
<b>Total</b>			<b>41.6</b>	<b>SF</b>