

INDEX OF SHEETS

1.	TITLE SHEET
2.	INDEX OF SHEETS
3.	CONVENTIONAL SYMBOLOGY SHEET
4-7.	COMPOSITE QUANTITY SHEETS
8.	EPSC NARRATIVE
9.	EPSC LEGEND
10-12.	EPSC DETAILS SHEETS
13-17.	EPSC EXISTING CONDITIONS PLAN SHEETS
18-22.	EPSC CONSTRUCTION SITE PLAN SHEETS
23-27.	EPSC FINAL CONDITIONS PLAN SHEETS
28-29.	BORING LAYOUT SHEETS
30-32.	BORING LOGS

RICHMOND STP 0284 (17)

33.	TITLE SHEET
34-36.	TYPICAL SECTIONS
37-39.	QUANTITY SHEETS
40.	ITEM DETAIL AND DRAINAGE SHEET
41.	EARTHWORK SHEET
42-44.	TIE SHEETS
45-48.	CURB TIE AND LAYOUT SHEETS
49-52.	ROADWAY LAYOUT SHEETS
53-55.	PROFILE SHEETS
56-59.	PAVEMENT MARKING AND SIGNS LAYOUT SHEETS
60-65.	TRAFFIC SIGN SUMMARY SHEETS
66-70.	TRAFFIC SIGNAL PLANS SHEETS
71-73.	TRAFFIC SIGNAL DETAIL SHEETS
74.	SIGNAL MAST ARM DETAIL SHEET
75.	LIGHTING PLAN LAYOUT SHEET
76.	LIGHTING DETAILS SHEET
77-80.	TRAFFIC MANAGEMENT PLANS
81-93.	CROSS SECTIONS

RICHMOND CMG PARK (31)

94.	TITLE SHEET
95-97.	TYPICAL SECTIONS
98-100.	QUANTITY SHEETS
101.	ITEM DETAIL AND DRAINAGE SHEET
102.	EARTHWORK SHEET
103.	TIE SHEET
104.	CURB TIE AND LAYOUT SHEET
105.	ROADWAY LAYOUT SHEET
106.	PROFILE SHEET
107.	PARTIAL GRADING PLAN
108.	LANDSCAPE DETAILS
109.	LANDSCAPE PLAN
110.	PARK AND RIDE DRAINAGE LAYOUT SHEET
111-112.	DRAINAGE DETAILS
113.	LIGHTING PLAN LAYOUT SHEET
114.	LIGHTING GENERAL NOTES
115.	LIGHTING DETAILS SHEET
116.	PAVEMENT MARKING AND SIGNS LAYOUT SHEET
117-119.	TRAFFIC SIGN SUMMARY SHEETS
120-122.	TRAFFIC MANAGEMENT PLANS
123-124.	PARK AND RIDE DETAILS SHEETS
125.	SPECIAL PROVISION (UNIT BLOCK RET. WALL)
126-127.	BUS SHELTER PLAN, DETAILS AND ELEVATIONS
128.	REINFORCING STEEL SCHEDULE
129-133.	CROSS SECTIONS

STANDARDS LISTS

A-76	STANDARDS FOR TOWN & DEVELOPMENT ROADS	03/03/2003
B-5	EMBANKMENT ON EARTH SLOPE EMBANKMENT ON ROAD SLOPE MUCK EXCAVATION TYPICAL SLOPE ROUNDING	06/01/1994
C-10	CURBING	02/11/2008
D-3	TREATED GUTTERS	06/01/1994
D-4	CORRUGATED PIPE END SECTION, ARCH END SECTION, AND ELBOW GRANULAR MATERIAL AT METAL CULVERT LOCATIONS TYPICAL WATERFALL FOR CULVERTS	08/13/2007
D-15	PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE PRECAST REINFORCED CONCRETE MANHOLE W/ CAST IRON COVER CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	06/01/1994
D-16	PRECAST REINFORCED CONCRETE CURB DROP INLET WITH CAST IRON GRATECAST IRON GRATE, TYPE B, CAST IRON GRATE, TYPE C UNDERDRAIN RISER REINFORCED CONCRETE PIPE END SECTION ENERGY DISSIPATOR FOR CULVERT	06/01/1994
D-20	HIGHWAY CROSSING SLEEVES FOR UNDERGROUND UTILITIES	03/03/2003
D-30	UNDERDRAIN CONSTRUCTION DETAILS	08/13/2007
E-100	CONSTRUCTION APPROACH SIGNS	01/02/2004
E-100A	SIDE ROAD CONSTRUCTION APPROACH SIGNS	01/02/2004
E-101	CONSTRUCTION SIGN DETAILS	05/30/2003
E-102	CONSTRUCTION SIGN DETAILS	06/30/2003
E-102A	CONSTRUCTION SIGN DETAILS	05/01/2004+
E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	03/01/2004
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS	03/01/2004
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	06/30/2003
E-107A	BREAKAWAY BARRICADE DETAILS	06/08/2009
E-108	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	06/08/2009
E-108A	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS FOR PAVING	06/08/2009
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08/08/1995
E-111	MINOR MAINTENANCE OPERATION	03/11/1997
E-119	UTILITY WORK ZONE	03/01/2004
E-120	STANDARD SIGN PLACEMENT EXPRESSWAY & FREEWAY	08/08/1995
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08/08/1995
E-123	GUIDE SIGN PLACEMENT MISCELLANEOUS DETAILS	03/16/2004
E-126	TYPICAL FREEWAY INTERCHANGE SIGNING	02/01/2000
E-131	GUIDE SIGNS	08/08/1995
E-133	SERVICE SIGN DETAILS	08/08/1995
E-135	INTERSTATE ROUTE MARKER SIGN DETAILS	08/08/1995
E-136A	U.S. ROUTE MARKER SIGN DETAILS	08/08/1995
E-136B	STATE ROUTE MARKER SIGN DETAILS	08/08/1995
E-140	REGULATORY SIGN DETAILS	08/30/1996
E-142	REGULATORY SIGN DETAILS	09/20/1995
E-143	REGULATORY SIGN DETAILS	06/15/2004
E-144	REGULATORY SIGN DETAILS	03/29/1999
E-152	WARNING SIGN DETAILS	05/01/2004
E-164	SQUARE STEEL SIGN POST	06/08/2009
E-170	TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED	11/04/1999
E-171A	TRAFFIC CONTROL SIGNALS GENERAL NOTES AND DETAILS	08/09/1995
E-171B	TRAFFIC CONTROL SIGNALS MISC. DETAILS	08/09/1995
E-171C	TRAFFIC CONTROL SIGNALS CANTILEVER MOUNTING DETAILS	08/09/1995
E-172	VEHICLE DETECTOR LOOP DETAILS	08/09/1995
E-173	PULLBOXES AND JUNCTION BOXES	08/09/1995
E-175	POWER DROP STANCHIONS	06/08/2009
E-180A	STREET LIGHTING DETAILS	08/09/1995
E-180B	STREET LIGHTING DETAILS	08/08/1995
E-191	PAVEMENT MARKING DETAILS	02/01/1999
E-192	PAVEMENT MARKING DETAILS	10/12/2000
E-193	PAVEMENT MARKING DETAILS	08/18/1995
E-197	DELINEATOR PLACEMENT TYPICAL	04/01/2005
E-198	FREEWAYS - EXPRESSWAY DELINEATORS AND MILE POSTS	04/01/2005
G-1	STEEL BEAM GUARDRAIL WITH STEEL POSTS	01/03/2000
G-19	STEEL BEAM GUARDRAIL WITH WOOD POST	
G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	11/15/2002
G-ID	STEEL BEAM GUARDRAIL APPROACH END TERMINAL	01/03/2000
G-ID	STEEL BEAM GUARDRAIL TRAILING END TERMINAL ANCHOR FOR STEEL BEAM GUARDRAIL	
G-ID	STEEL BEAM MEDIAN BARRIER	

NOTE:

THE SIX INCH EXISTING GAS LINE ALONG US ROUTE 2 HAS BEEN SHOWN BASED ON AN AS-PROPOSED DRAWING PROVIDED BY VERMONT GAS. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES WITH EXPLORATORY TEST PITS WHEN DIRECTED BY THE ENGINEER FOR GUARDRAIL POST INSTALLATION, MAST ARM FOUNDATIONS AND OTHER EXCAVATION RELATED ACTIVITIES. TEST PITS SHALL BE PERFORMED PRIOR TO SUBMITTING THE MAST ARM FOUNDATION DESIGN FOR APPROVAL BY THE ENGINEER. THE COST FOR EXPLORATORY TEST PITS WILL BE PAID UNDER CONTRACT ITEM 204.22. ALL UTILITIES HAVE BEEN PLOTTED TO QUALITY LEVEL "C"; SEE BELOW.

UTILITY QUALITY LEVEL INFORMATION INDEX (SEE ASCE/C1 38-02):

UTILITY QUALITY LEVEL A:

PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. A PRECISE HORIZONTAL AND VERTICAL LOCATION, AS WELL AS OTHER UTILITY ATTRIBUTES, IS SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY SET TO 0.05 FEET (15-MM) VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT OWNER. INFORMATION IS ONLY VALID WITHIN THE VISIBLE LIMITS OF THE TEST HOLE.

UTILITY QUALITY LEVEL B:

INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

UTILITY QUALITY LEVEL C:

INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL D:

INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

PROJECT NAME:	RICHMOND
PROJECT NUMBER:	STP 0284 (17)/CMG PARK (31)
FILE NAME:	z97cl86frm.dgn
PROJECT LEADER:	ERIK ATKINS
DESIGNED BY:	T. BIGELOW
INDEX OF SHEETS	
PLOT DATE:	5/14/2013
DRAWN BY:	N. BOSAN
CHECKED BY:	E. ATKINS
SHEET	2 OF 133