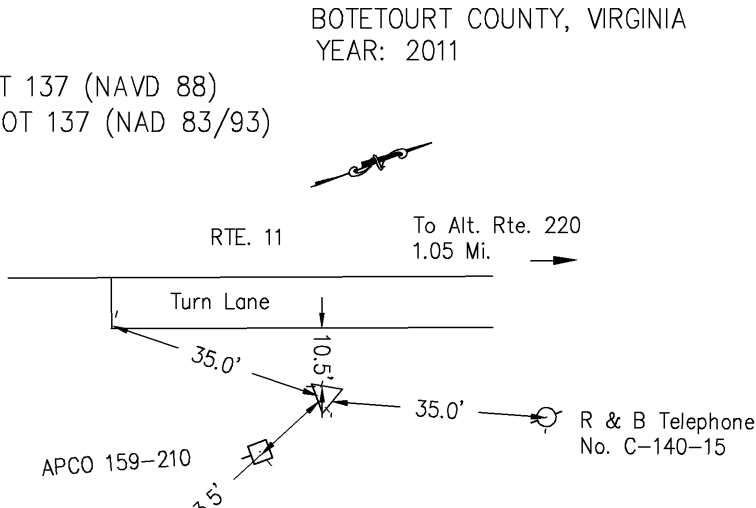


CONTROL STATION ID.: VDOT MONUMENT 11-0175
M&C PROJECT: 3178
ESTABLISHED BY: TIMOTHY W. CALWELL, LS
VERTICAL DATAM BASED ON: BOTETOURT COUNTY CONTROL BOT 137 (NAVD 88)
HORIZONTAL DATUM BASE ON: BOTETOURT COUNTY CONTROL BOT 137 (NAD 83/93)

Va. STATE PLANE COORDINATES
NAD 1983 METRIC VALUES SOUTH ZONE
X (EAST) 3,375,504.1663
Y (NORTH) 1,116,191.4868
ORTHO. ELEV. = 346.722

M&C PROJECT COORDINATES:
X (EAST) 2,872,680.2797
Y (NORTH) 381,244.3226
ELEV. = 1137.537

- TO CONVERT STATE PLANE METRIC UNITS TO M&C PROJECT VALUES, USE THE FOLLOWING FORMULA:
1. REDUCE THE EASTING METRIC VALUES BY 2.5 MILLION METER. THE SOUTH AND NORTH ZONE NORTHING METRIC VALUES BY 1 AND 2 MILLION RESPECTIVELY.
 2. MULTIPLY THESE VALUES BY THE U.S. SURVEY FOOT (3.280833333).
 3. MULTIPLY THESE VALUES BY COMBINED SCALE AND ELEVATION FACTOR (1.000103408)

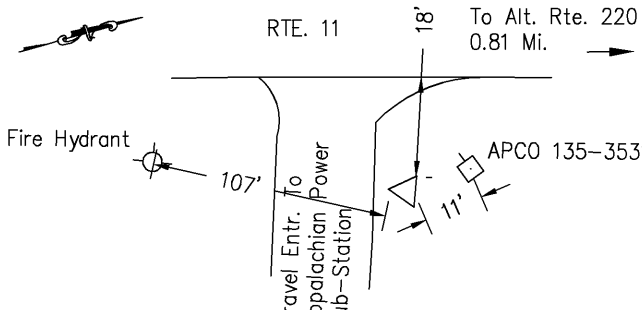


CONTROL STATION ID.: VDOT MONUMENT 11-0176
M&C PROJECT: 3178
ESTABLISHED BY: TIMOTHY W. CALWELL, LS
VERTICAL DATAM BASED ON: BOTETOURT COUNTY CONTROL BOT 137 (NAVD 88)
HORIZONTAL DATUM BASE ON: BOTETOURT COUNTY CONTROL BOT 137 (NAD 83/93)

Va. STATE PLANE COORDINATES
NAD 1983 METRIC VALUES SOUTH ZONE
X (EAST) 3,375,613.7115
Y (NORTH) 1,116,546.0178
ORTHO. ELEV. = 347.526

M&C PROJECT COORDINATES:
X (EAST) 2,873,039.7168
Y (NORTH) 382,407.5999
ELEVATION = 1140.175

- TO CONVERT STATE PLANE METRIC UNITS TO M&C PROJECT VALUES, USE THE FOLLOWING FORMULA:
1. REDUCE THE EASTING METRIC VALUES BY 2.5 MILLION METER. THE SOUTH AND NORTH ZONE NORTHING METRIC VALUES BY 1 AND 2 MILLION RESPECTIVELY.
 2. MULTIPLY THESE VALUES BY THE U.S. SURVEY FOOT (3.280833333).
 3. MULTIPLY THESE VALUES BY COMBINED SCALE AND ELEVATION FACTOR (1.000103408)

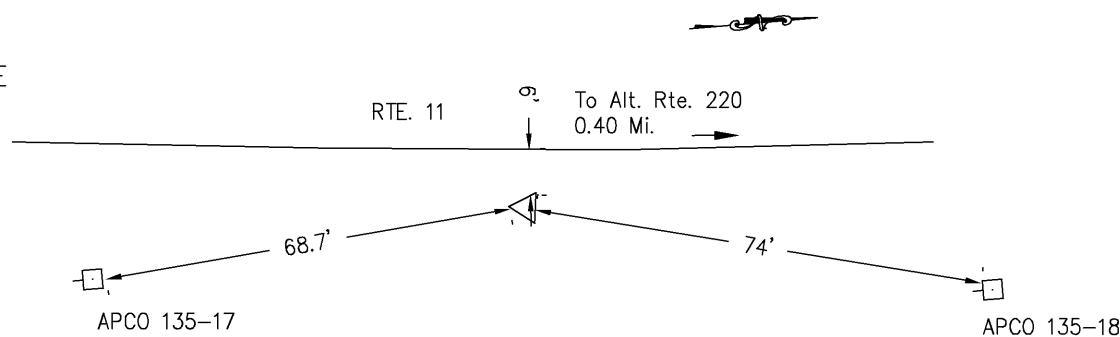


CONTROL STATION ID.: IRON PIN W/CAP
M&C PROJECT: 3178
ESTABLISHED BY: TIMOTHY W. CALWELL, LS
VERTICAL DATAM BASED ON: BOTETOURT COUNTY CONTROL BOT 137 (NAVD 88)
HORIZONTAL DATUM BASE ON: BOTETOURT COUNTY CONTROL BOT 137 (NAD 83/93)

Va. STATE PLANE COORDINATES
NAD 1983 METRIC VALUES SOUTH ZONE
X (EAST) 3,375,776.8863
Y (NORTH) 1,117,206.1339
ORTHO. ELEV. = 364.368

M&C PROJECT COORDINATES:
X (EAST) 2,873,575.1211
Y (NORTH) 384,573.5548
ELEV. = 1195.431

- TO CONVERT STATE PLANE METRIC UNITS TO M&C PROJECT VALUES, USE THE FOLLOWING FORMULA:
1. REDUCE THE EASTING METRIC VALUES BY 2.5 MILLION METER. THE SOUTH AND NORTH ZONE NORTHING METRIC VALUES BY 1 AND 2 MILLION RESPECTIVELY.
 2. MULTIPLY THESE VALUES BY THE U.S. SURVEY FOOT (3.280833333).
 3. MULTIPLY THESE VALUES BY COMBINED SCALE AND ELEVATION FACTOR (1.000103408)

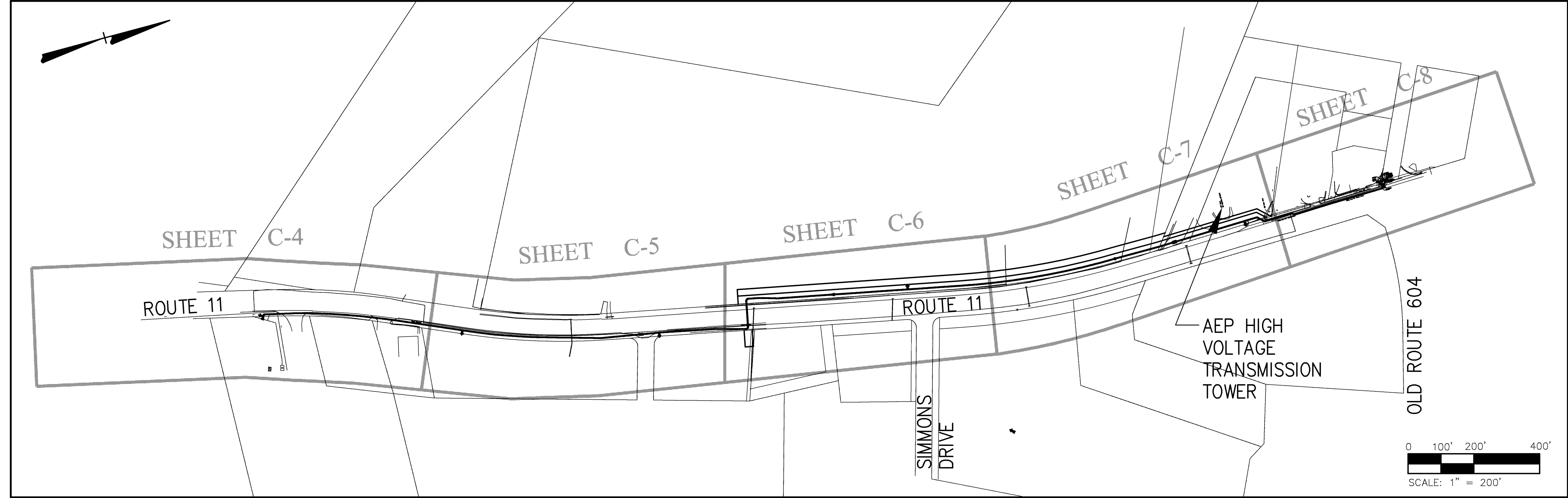
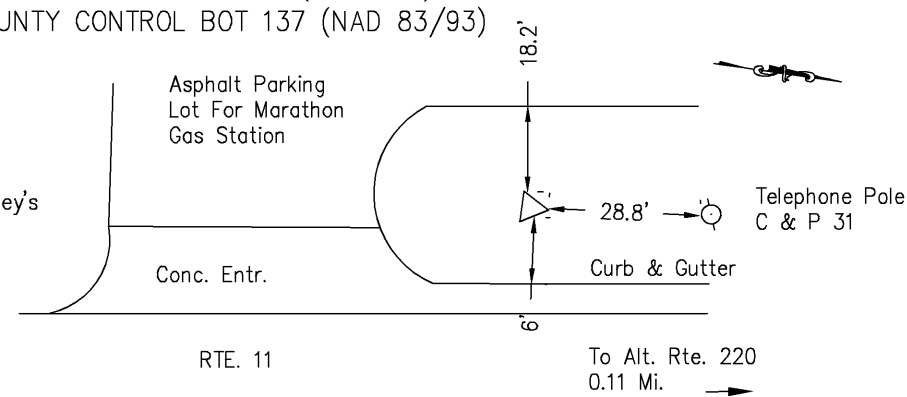


CONTROL STATION ID.: IRON PIN W/CAP
M&C PROJECT: 3178
ESTABLISHED BY: TIMOTHY W. CALWELL, LS
VERTICAL DATAM BASED ON: BOTETOURT COUNTY CONTROL BOT 137 (NAVD 88)
HORIZONTAL DATUM BASE ON: BOTETOURT COUNTY CONTROL BOT 137 (NAD 83/93)

Va. STATE PLANE COORDINATES
NAD 1983 METRIC VALUES SOUTH ZONE
X (EAST) 3,375,748.68235
Y (NORTH) 1,117,704.6593
ORTHO. ELEV. = 370.963

M&C PROJECT COORDINATES:
X (EAST) 2,873,482.5789
Y (NORTH) 386,209.3027
ELEVATION = 1217.069

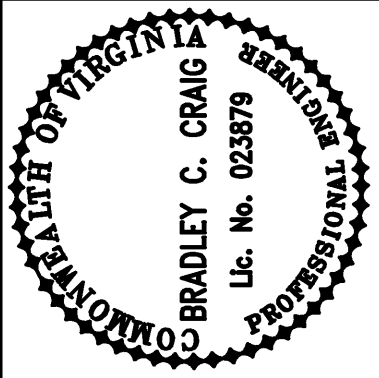
- TO CONVERT STATE PLANE METRIC UNITS TO M&C PROJECT VALUES, USE THE FOLLOWING FORMULA:
1. REDUCE THE EASTING METRIC VALUES BY 2.5 MILLION METER. THE SOUTH AND NORTH ZONE NORTHING METRIC VALUES BY 1 AND 2 MILLION RESPECTIVELY.
 2. MULTIPLY THESE VALUES BY THE U.S. SURVEY FOOT (3.280833333).
 3. MULTIPLY THESE VALUES BY COMBINED SCALE AND ELEVATION FACTOR (1.000103408)



SHEET INDEX
SCALE: 1"= 200'

NOTES:

1. PROPERTY LINES SHOWN HEREON ARE BASED ON RECORDED DEEDS, PLATS AND FOUND MONUMENTS. BEARINGS HAVE BEEN ROTATED TO MERIDIAN OF BOTETOURT COUNTY SURVEY CONTROL NETWORK (VA. STATE PLANE - SOUTH ZONE). A BOUNDARY SURVEY HAS NOT BEEN PERFORMED ON EACH PARCEL THEREFORE PROPERTY LINES MAY BE SUBJECT TO ADJUSTMENT AS WOULD BE DISCLOSED BY A CURRENT BOUNDARY SURVEY.
2. THIS TOPOGRAPHIC SURVEY FOR A NEW WATER LINE ON LEE HIGHWAY (RTE. 11) WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF TIMOTHY W. CALDWELL, L.S. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON JUNE 9TH THRU AUGUST 4, 2011; AND THAT THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
3. HORIZONTAL DATUM IS BASED ON NAD 83/93.
4. VERTICAL DATUM IS BASED ON NAVD 88



Revisions	Date
1 VDOT COMMENTS	12/13/11
2 RECORD DRAWINGS	9/26/12

Issue Date:	Drawn By:	Designed By:	Checked By:
DECEMBER 4, 2011	ARB	ARB	BCC



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CLOVERDALE WATERLINE EXTENSION

**SHEET INDEX, CONTROL DATA
AND GENERAL NOTES**

BOTETOURT COUNTY, VIRGINIA

Vertical Scale:
N/A
Horizontal Scale:
AS NOTED
Commission Number:
3178
Sheet No.:
C-3

RECORD DRAWING