Background

TRAC and the Town of Burnsville believe that community input can have the most positive impact on:

- Design and visual impact, including public art
- Economic development
- Building social capital and enhancing quality of life in the community
- Environmentally conscious and sustainable features
- Strategies to accommodate pedestrian, bicycle and other alternative forms of transportation

Building Partnerships between: Toe River Arts Council, NC Trails, Healthy Yancey, Yancey County Economic Development, Burnsville Chamber of Commerce and local governments of Burnsville and Yancey County and the citizens and visitors to Burnsville
Concepts for Gateways and Downtown Burnsville Public Art Master Plan

Public Art GOALS:

• Provide concepts for three gateway/landmark entries into downtown Burnsville
• Incorporate green practices/materials when possible
• Include artwork concepts that are both functional & educational
• Reflect the strong arts and cultural identity of the community
• Reflect historic and cultural heritage, and consider economic development potential
• Support pedestrian activities & vehicular traffic
• Consider climate, maintenance, safety and longevity in construction materials & techniques
HIGHWAY 19-E PUBLIC ART ELEMENTS

Phase I:
- **Telescope Markers** at the intersections of Highway 19E at East Main and West Main Streets.
- Lighted glass gabions running through the landscape.
- Large native stone sculptures shaped into individual and group seatings bearing the names, height, and distance from Burnsville of nearby high mountains and the highest mountain of each of the 7 continents, their height, and distance.
- Wall-mounted glass gabions on the retaining wall at South Main.
- Stone quilts on the southwest embankment of South Main.
- Artist’s cut-metal wraps on traffic light poles at 3 intersections.

Phase II:
- Artist’s sculptural works inserted into the fence railing running along sections of the highway.
- Artist’s images laid over three utilitarian traffic control boxes set adjacent to sidewalks at three intersections.
PHASE I
Telescope Entry Markers
Landscape Glass Gabions
South Main Stone Quilts
South Main Wall Gabions
Traffic Light Pole Wraps

GATEWAY MARKERS - CONCEPT DESIGN
The Burnsville 19E Entry Gateways are placed in sets of three at the East and West intersections with Main Street. The Gateway Markers reference two of Burnsville’s stories - one a deep-rooted tradition, the other a new adventure around which stories will grow.

Drawing on the recent certification as one of twenty-seven International Dark Sky Communities, the new Star Park and its 34-inch telescope, the largest observatory telescope in North Carolina and largest dark sky public telescope in the southeastern United States, the sculptural Entry Markers derive their shapes using early telescopes, similar to that used by Admiral Otway Burns - Burnsville’s namesake, as structural form.

Internationally renown Burnsville Yancey resident glass artists are also a component of these Markers. Local artists will be commissioned to fabricate multi-color blown and cast glass shapes that will fill the bodies of the scopes.

These Marker telescopes are internally lit to a quiet glow by use of solar powered LEDs. Respecting the requirements of Dark Sky, there will be no light spill and none shining up into the night sky.
CONCEPT STUDIES

BURNSVILLE - 19E
Telescope Sculpture
Schematic vertical section
Dims as shown

Lighting provided by LEDs behind glass & will be on a timer.
Lighting will be contained within the sculpture and will be held to an interior glow with no spill.
Lighting & clock works are housed in the sculpture base.
Power provided by on-site solar array / battery system.
GLASS UNITS IN STEEL FRAME; SEE 5/S1.3.

HSS 10.0 x 0.50 STEEL COLUMN

HSS 30.0 x 0.50 STEEL COLUMN

3000 PSI CONC. PIER/FOOTING.

SECTION AT BASE CONNECTION
SCALE: 1/2"=1'-0"

SECTION AT PIER
SCALE: 1"=1'-0"

SECTION AT PLATE
SCALE: 1/2"=1'-0"

SECTION AT PLATE
SCALE: 1/2"=1'-0"

SECTION AT BASE CONNECTION
SCALE: 1"=1'-0"

SECTION ACROSS BOX
SCALE: 3"=1'-0"

SECTION ACROSS BOX
SCALE: 3"=1'-0"

SECTION ACROSS BOX
SCALE: 3"=1'-0"

NOTE: Per direction from NCDOT, anchor bolts are break-away "Pole Safe Double Neck."
SolidApollo LED Lighting

Ultra High Brightness
WATERPROOF LED Strip Light - 300 Units SMD 5050

DESCRIPTION
The bright high brightness waterproof strip is the perfect solution for light up areas in a linear format when outstanding illumination is needed for an area subject to moisture such as outdoor hospitality lighting or near pools and water features. The strip is 35.4 ft. long. Boxes are included with the strip to make installation a simple process. It includes a jack connector so you can light strip with any other power supply that has a corresponding jack connector. No need to solder or cut cables. Each flexible LED strip contains 300 surface mounted SMD 5050 LED chips individually picked by BHM Number in order to have a very steady color rendering index (CRI). Solid Apollo’s Ultra High Brightness Waterproof strip can be cut every 5 LED’s or every 3.25”. In 300 SMD 5050 LED’s, run at 20%, an advantage because the LED strip can operate at a lower current maximizing its estimated lifetime of 50,000 hrs. Printed on white circuit board (PCB), the finishing touch has more reflective capabilities compared to traditional LED Strips.

11 ft. Waterproof LED Strip Extension Cable made with watertight connection with screw assembly to make each connection. SMD waterproof: 5050 SMD85-003315

Silicone 0.5 oz. Waterproof Adhesive sealant to seal taped or taped strips and fasten strip to surfaces. 1500°F heat-resistant. SMD 5056-0003

Essential Product Features
- Waterproof/Weatherproof
- Operating Voltage 24 VDC
- White Printed Circuit Board (PCB)
- 3 Year Warranty
- Dimensions: 36.4 in. X 0.40 in.
- LED Signal: 3507/1.64 ft.
- Weight 0.5 lbs
- Watts Per Foot: 4.4 W
- Beam Angle = 150°
- IP Rating = IP20

Typical Applications
- Water Feature Lighting
- Outdoor Architectural Lighting
- Outdoor Hospitality Lighting
- Garden Path Illumination
- Landscape Lighting
- Lawn/Pool Installations

10mm Silicone End Cap for waterproof LED strip to be used in end cap. 500°F heat-resistant. SMD SB026-10SA

10mm Silicone Bracket Waterproof bracket header to seal taped waterproof strip. 1500°F heat-resistant. SMD SB 026-10SA

Electrical Data

| Nominal Power (Pnom) | 320 W | 320 W |
| Nominal Power (Pnom) | 320 W | 320 W |
| Power Tolerance | +5% to -5% | +5% to -5% |
| Max. Rated Voltage (Vnom) | 547 V | 547 Y |
| Rated Current (Iom) | 5.58A | 5.86A |
| Open-Circuit Voltage ( Voc) | 645 V | 645 V |
| Short-Circuit Current (Isc) | 6.46 A | 6.24 A |
| Max. System Voltage | 600 V UL & 1000 V IEC |
| Maximum Series Per Strip | 10 A |
| Power Temp Coef. | −0.338% /°C |
| Voltage Temp Coef. | −1.76% /°C |
| Current Temp Coef. | 3.5 mA /°C |

LED Color | W300 | W400 | W500 | W800 | W1000 | W1500 | W2000 | W2500 | W3000 | W3500 | W4000 | W4500 |
| LED Type | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 | SMD 5050 |
| Min. Qty | 7 |

SunPower Solar Panel E20-327
West Main @ 19-E

After

West Main Scope Marker colors drawn from *Appalachian sunsets*
East Main Scope Marker colors drawn from *Appalachian sunrises*
Glass Gabion colors drawn from *Appalachian streams*
East Main @ 19-E to the West

Before

After
EAST MAIN @ 19E GATEWAY
- 3 Telescope Markers
- Landscape Glass Gabions
- Earthwork Berms
- Mountain Sighting Seating
- 2 Traffic Light Pole Wraps
- Special Ornamental Flowering Intersections Trees

Special Intersection Trees

Traffic Poles

GWSS "LOW BERM" to 3ft

Traffic Safety Barriers

HIGH BERM +8ft
RISING BERMS 4ft - 7ft
GLASS GABIONS
MOUNTAIN SIGHTING SEATING
TELESCOPE MARKERS
SOUTH MAIN @ 19E GATEWAY
- Landscape Glass Gabions
- Stone Quilts
- Retaining Wall Glass Gabion Columns
- 4 Traffic Pole Wraps
- Mountain Sighting Seating
- Special Flowering Ornamental Intersection Trees

--- Approximate DOT ROW

gravel parking area at top of grade
Mountain Sighting Seating
Landscape Glass Gabions
Retaining Wall Glass Gabion Columns
slope up
slope up

street name sign
town sign
slope up

traffic control box
traffic cntrl bx

Traffic Pole Wraps
Special Intersection Trees

commercial sign
parking lot

slope down
parking lot
slope down

slopes up
slopes up

slopes up
slopes up

slopes up
slopes up

slopes up
slopes up

slopes up
slopes up
WEST MAIN @ 19E GATEWAY

- 3 Telescope Markers
- Landscape Glass Gabions
- Mountain Sighting Seating
- Special Flowering Ornamental Intersection Trees
RUNNING LANDSCAPE GLASS GABION / ELEVATION
TYPICAL 5'0"X3'0" UNIT

Glass Units throughout

1/8" Galvanized Steel Frame
Top, Back, Bottom

LED Strip
16'/4" (1M) length per Unit

Translucent Plastic Sheet

Steel Bar Cage
Corner Brace

McNichols Expanded
1-1/2 #10 Galvanized Steel Cage

Compacted Gravel size & depth TBD
NOTE: Landscape glass gabions are sited within the landscape, behind plant materials, and are designed to crush upon impact by automobiles. Specific locations will be determined during Final Design.
South Main Gateway
At this location, the center-point of the Burnsville Scenic By-way, the Gateway takes a different expression and is unlike the East and West Gateways. Here the numerous signs, power and traffic light poles, the large sloping hillside, and “Great Wall” require a combination of ideas to form a whole.
The artistic and landscape elements making this a Gateway include large quilts made with carefully selected and placed native stone, lighted glass gabion columns built onto the south-side retaining wall, flowering and/or fall color vines set between the columns, running landscape gabions on the north side of 19E, and indigenous trees, grasses, and plantings completing this Gateway.
WALL ELEVATION & SECTION
PRELIMINARY SCHEMATIC 090815

Burnsville 19-E South Main Wall #3
Section through glass gabion column
Preliminary Schematic
All dimensions subject to change 09.08.15

Base below
Vertical Frame TBD
Wire Mesh Cages
Cage Rack
LEDs
Reflective Surface
Wall Mount TBD
Block Wall #3

SECTION - dims as shown
All steel / fittings / attachments TBD

38.5"  36"

Vertical Frame TBD
Wire Mesh Cages
Cage Rack

ELEVATION - dims as shown

Jack Mindell
startdisposal/toe
209.550.1493

Typical Wall - Section at Sta. 268+00
Keysystem T Unit - Near Vertical Setback

100 mm Thick Concrete Paved Ditch
Expansion Joint Material Required Between Coping and Concrete Paved Ditch
Proposed CIP Coping
5" between LEDs & Glass Elements
9" cover Glass Elements

LED strips
Cast Glass Elements in 36" tall cage units
18” radius

5’ Sidewalk

4” Perforated PVC Drainage Tile
(Wrap Drainage Tile in 3/4” Aggregate and Filter Fabric at Toe), if Required.
Foundation Soil
Unreinforced Concrete Linting Pad

Concrete footing TBD

600 mm Min.
Burnsville 19E Wall 2
Glass Wall Column Placement
36" Diameter Columns
Dimensions as shown
TRAFFIC LIGHT POLE WRAPS

Improvements on Burnsville 19-E include new traffic control lights at three intersection - South Main, Pensacola Road, and East Main. Each intersection will have four silver galvanized poles located on each of the four corners with traffic lights on over-road extended arms and WALK - DON’T WALK signals.

As a part of the Endless Gate sequencing, a regional artist will be commissioned to create “Pole Wraps,” sleeves made from panels of light-weight steel. These steel sheets will be water-jet or laser-cut to reveal artist-designed images or patterns drawn from the vast array of flora and fauna in the mountains surrounding Burnsville - the patterns of wind rushing across an open field, images derived from the intricate design of native plant seed pods, the fine texture seen in the antennae of a Luna moth, the water running in the Toe. The artist’s panels are then rolled to match the pole circumference, painted or powder-coated per the artist’s specification, and mounted to the base of the traffic light pole. These poles can be installed as stand-alone artworks with three placed on South Main between 19E and the Town Square.
Burnsville NCDOT Light Pole Sleeves
Two pieces - 3/16" mild steel bolted together around pole.
Waterjet cut or powder-coat or galvanized with enamel paint per NCDOT/Burnsville preference.
TRAFFIC LIGHT POLE ART SLEEVES
WATER-JET CUT STEEL
Details by Medlock & Associates Engineers

**NOTE:** Artwork attachment by strap is selected due to all traffic light poles having differing diameters and tapers.
THREE STONE QUILTS
South Main at 19-E, southwest corner slope
see Pages 16 & 17

- Heavy plastic film cover placed corner-to-corner prior to stone placement

30'0" 30'0"

- 30’ X 8” X 3/16”... steel curb held in place by rebar rods on all downhill sides

length of pipe TBD

French Drain @ Quilt Base

Rosa Patio

Sandalwood

Dove Gray
MOUNTAIN SIGHTING SEATINGS

Healthy Yancey has designated the Town Square as the heart and starting point of their regional Walking Trails. From the Square, walkers will take mapped short walks, long walks, short day hikes, and longer hikes that will take a hiker to the Mt. Mitchell and beyond. Many of these trails make use of the new sidewalks along Highway 19-E where new landscaping will provide summer shade.

To further support walkers and hikers, artists will be commissioned to create carved stone benches as resting points along the walks. These benches could all be made by one artist or the Town can engage a number of regional artists to sculpt the benches. The only bench prerequisite is that they provide comfortable seating for two people and carry marks pointing to the nearby and foreign mountains.

These sculptures, the *Mountain Sighting Seatings*, will be set alongside the sidewalk trails offering a place meet others in your walking / hiking group or just to have a seat provided by Burnsville’s Public Art Program. Each bench will hold the name, height from sea-level, and distance from Burnsville (as a crow might fly) of a local mountain, many of them the highest peaks east of the Mississippi River - Mt. Mitchell, Mt. Craig, Balsam Cone, Cattail Peak and Mount Gibbes - paired with one of the 7 tallest mountains on Earth’s 7 continents, all members of the family of global peaks which include those close by in Burnsville’s neighborhood.

<table>
<thead>
<tr>
<th>Mountain</th>
<th>Height (ft)</th>
<th>Distance from Burnsville</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mt. Mitchell</td>
<td>6,684</td>
<td>10.75 miles</td>
</tr>
<tr>
<td>Mt. Everest</td>
<td>29,028</td>
<td>7,974.93 miles</td>
</tr>
<tr>
<td>Mt. Craig</td>
<td>6,647</td>
<td>9.91 miles</td>
</tr>
<tr>
<td>Mt. Kilimanjaro</td>
<td>19,341</td>
<td>7,993.42 miles</td>
</tr>
<tr>
<td>Cattail Peak</td>
<td>6,600</td>
<td>8.66 miles</td>
</tr>
<tr>
<td>Vinson Massif</td>
<td>16,066</td>
<td>7,917.27 miles</td>
</tr>
<tr>
<td>Balsam Cone</td>
<td>6,611</td>
<td>345.51 miles</td>
</tr>
<tr>
<td>Mt. Aconcagua</td>
<td>13,793</td>
<td>4,809.40 miles</td>
</tr>
<tr>
<td>Clingman’s Peak</td>
<td>6,557</td>
<td>12.63 miles</td>
</tr>
<tr>
<td>Mt. Kosciuszko</td>
<td>7,310</td>
<td>9,661.12 miles</td>
</tr>
</tbody>
</table>
BURNSVILLE 19E SEATING AREA
TYPICAL NARROW ROW CONFIGURATION
Mountain Sighting Seatings

NO SCALE - DIMENSIONS AS SHOWN
7 LOCATIONS
7 CONFIGURATIONS

SEATING ELEMENTS
SINGLE or MULTIPLE UNITS
Type & Location will vary

COMPACTED GRANITE
THROUGHOUT SEATING AREA

PLACE SAFETY GUARDRAIL ALONG ROADWAY AT BACK OF CURB
LENGTH OF GUARDRAIL TO BE DETERMINED
BURNSVILLE 19E SEATING AREA
TYPICAL WIDE ROW CONFIGURATION
Mountain Sighting Seatings

NO SCALE - DIMENSIONS AS SHOWN
7 LOCATIONS
7 CONFIGURATIONS

SEATING ELEMENTS
SINGLE or MULTIPLE UNITS
Type & Location will vary

COMPACTED GRANITE
THROUGHOUT SEATING AREA

PLACE SAFETY GUARDRAIL ALONG ROADWAY AT BACK OF CURB
LENGTH OF GUARDRAIL TO BE DETERMINED
PHASE II
Safety Railing Sculptural Inserts
Traffic Control Box Wraps

Traffic Control Boxes located at each signalized intersection (three) will be wrapped with artists’ designs using “bus wrap” vinyl sign material. This technology is affordable, highly vandal resistant, and will be applied / maintained by the contracted sign company.

North Carolina DOT will be placing a “5-Bar Railing” along 2500+ feet of the new 19E roadway. Opportunity is presented to commission artists to create sculptural artworks to be attached to the rail posts as simple retrofits. The railing length suggests the possibility of having numerous artists involved. Artists working in forged & hammered steel, cast metals, and other techniques using very durable materials should be sought for these commissions.
BURNSVILLE HIGHWAY 19E PUBLIC ART ELEMENTS

THREE ENTRY MARKERS

Glass Gabions

Mountain Sighting Seatings

Stone Quilts

Traffic Light Pole Wraps -
3 intersections
4 poles per -

Native Plant Quilts

Glass Gabions

Traffic Light Pole Wraps -
3 intersections
4 poles per -
Safety Rail Enhancements

Mountain Sighting Seatings

Traffic Control Box Wraps
3 intersections
1 box per

Three Entry Markers

Glass Gabions