FIRECLAY TOD DESIGN STANDARDS

The following Design Standards have been established in order to create a consistent visual theme throughout the Murray Fireclay TOD/Redevelopment Area. The standards have been divided into three primary sections: Streetscape, Landscape, and Monumentation. Each section contains standards that must be followed within the Fireclay TOD, and recommendations which provided examples:

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4) ATTACHMENT A - Sample Products

Photographs and drawings are shown of the particular items that should be specified in each new development proposal within the district. These images are shown as specific guides on style, finish, and material types. However, no particular manufacturers have been identified (except where an existing city standard exists, and any combination of comparable equals would be accepted. Attachment A consists of product cut-sheets from specific manufacturers that could be used for comparison.
Design Standards
TREE GRATES

TREE GRATE SPECIFICATIONS

Material:
Cast Iron

Finish:
Raw cast iron grey

Size:
5" SQ

Placement/Spacing:
30' - 50' spacing on center

Application:
Optional on Principal streets, and other approved locations
TREE GUARDS

TREE GUARD SPECIFICATIONS

Materials:
Fabricated steel construction

Finish:
Black high polish Powdercoat

Size:
16" diameter
5' height

Placement/Spacing:
30' - 50' spacing on center

Application:
Optional on Principal streets, and other approved locations
TRASH/RECYCLING RECEPTACLES

TRASH RECEPTACLE SPECIFICATIONS

Materials:
Fabricated steel construction

Finish:
Black high polish Powdercoat

Size:
36" diameter
48" height

Placement/Spacing:
Minimum of 2 per block face, unless otherwise approved by the City

Application:
All Principal streets, and other approved locations
BOLLARDS

BOLLARD SPECIFICATIONS

Materials:
Cast steel

Finish:
Black high gloss Powdercoat.

Size:
4" diameter
36" height

Mounting Options:
Cast-in, Bolt-down (surface mount), or Removable.

Placement/Spacing:
Minimum 4' spacing, Maximum 6' spacing

Application:
All Principal street intersections, and other approved locations
BENCHED BENCHES

BENCH SPECIFICATIONS

Materials:
Ductile cast iron end frames, steel straps

Finish:
Black high gloss Powdercoat

Size:
5/16" x 1 1/2" wide straps
6' length

Placement/Spacing:
Minimum of 3 per block face

Application:
All Principal streets, and other approved locations
PLANTERS

PLANTER SPECIFICATIONS

Materials:
Concrete

Finish:
Natural concrete color and texture. No stamping or staining

Size:
Planter Option A
6" high, 6" depth
Planter length and width will vary

Planter Option B
18" high, 10" depth
Planter length and width will vary

Placement/Spacing:
Option in place of tree grate
Planter Option A - 30 - 50' spacing on center
Planter Option B - Maximum of 2 per block face

Application:
All Principal streets, and other approved locations

Streetscape Design Standards
LIGHTING FIXTURES

LIGHTING SPECIFICATIONS

Manufacturer:
Holophane

Model Series:
Utility Washington Postlite Luminare (WAU-product number)
North Yorkshire Pole (NY13/20-CIS/BK)

Materials:
Cast iron & steel pole
Glass and cast aluminum luminare

Finish:
Black trim on luminare
Black pole finish

Pole Size:
15' pole height
20" diameter base

Accessories/Notes:
Banner arms (BA24H/1/BO)
Single lamp, rather than the double

Placement/Spacing:
Principal Street - 30' - 50' spacing on center stagger with landscaping
Non-principal Streets - spacing to meet minimum required lighting levels

Application:
All streets, and other approved locations
BICYCLE RACKS

BICYCLE RACK SPECIFICATIONS

Materials:
Steel tubing

Finish:
Black semi-gloss Powdercoat

Size:
1-1/2" diameter tubing, 27 1/2" wide, 32" high.

Placement/Spacing:
Install in groups of three minimum, seven maximum.
Minimum one group per block face

Application:
All Principal streets, and other approved locations
PAVING PATTERNS & PAVERS

PAVING ACCENT SPECIFICATIONS

Materials:
Varies. May be brick, stained concrete, or other paving materials as long as the surface and seams are smooth as to not impede.

Applications:
Approved locations. Paving accents are to be used to articulate building entries, pedestrian crosswalks, plazas, or

Patterns:
Paving accents should follow a 2' 6" grid, or other 2' 6" modular pattern variation.

PAVING PATTERN SPECIFICATIONS

Materials:
Concrete

Finish:
Natural concrete, may stain. No stamping.

Scoring Patterns:
2' 6" grid, or as shown in detail below

Application:
All streets, and other approved locations

7' 6"
May vary: 5' min, 10' max

7' 6"
May vary: 5' min, 10' max
Recommendations
BICYCLE LOCKERS

BICYCLE LOCKER SPECIFICATIONS

Materials:
Solid steel top with perforated steel walls

Finish:
Black high gloss Powdercoat.

Size:
47" height
76" length
39" width

Additional Notes:
2 bicycles per modular unit
Stackable
Padlocking handles
INFORMATIONAL KIOSKS

KIOSK SPECIFICATIONS

**Materials:**
Steel or aluminum construction

**Finish:**
Black high gloss Powdercoat.

**Size:**
Variable

**Notes:**
Kiosks may be a custom design and do not need to match the photograph to the left. However, kiosks must be of a similar level of quality.
CLOCK

CLOCK SPECIFICATIONS

Materials:
Cast iron post

Finish:
Black high gloss Powdercoat.

Notes:
Clocks may be a custom design and do not need to match the photograph and drawing to the left. However, clocks must be of a similar level of quality.
Design Standards
SPECIES LIST

Street Tree List:

East - West Streets:  
   Pacific Sunset Maple and Red Spire Pear

North - South Streets:  
   Zelkova and Aristocrat Pear

Planted Medians:  
   London Plane, Red Maple and Burr Oak

Open Spaces along Couplet Streets:  
   Bur Oak and Red Maple

Additional Medium Shade Trees-  
   for use in public and private open spaces::
   Canada Red Choke Cherry
   Tatarian Maple
   Flame Maple
   Western Redbud
   Amur Maple
   Forest Pansy Eastern Redbud
   Thornless Honeylocust
   Red Barron Crabapple
   Chanticleer Pear

Planting/Spacing:  
   30'-50' spacing on all street trees

Plant Schedule:

Deciduous Shrubs
   Ruby Carousel Barberry 2 Gal. 3 ft spacing
   Green Velvet Boxwood 2 Gal. 3 ft spacing
   Ivory Halo Dogwood 2 Gal. 4 ft spacing
   Hancock Coralberry 2 Gal. 4 ft spacing

Evergreen Shrubs
   Trailing Euonymus 1 Gal 3 ft spacing
   Moonshadow Euonymus 1 Gal 3 ft spacing
   Otto Luiken Laurel 3 Gal 4 ft spacing
   Dwarf Periwinkle flat 12" spacing

Ornamental Grasses
   Karl Foerster Feather Grass 1 Gal 3 ft spacing
   Varigate Maiden Grass 1 Gal 5 ft spacing
   Fountain Grass 1 Gal 4 ft spacing

Perennials
   Woodside Ruby Daylilly 1 Gal 2.5 ft spacing

Power should be installed in tree grates following the above detail.
Street Trees
East - West Streets:

Pacific Sunset Maple

Red Spire Pear

Street Trees
North - South Streets:

Zelkova

Aristocrat Pear
Street Trees
Planted Medians:

London Plane

Burr Oak

Red Maple
Additional Medium Sade Trees
For use in public and private open spaces

Amur Maple

Tatarian Maple

Imperial Honeylocust

Chanticleer Pear
Additional Medium Sade Trees
For use in public and private open spaces

Canada Red Choke Cherry

Western Redbud

Red Barron Crabapple

Forest Pansy Eastern Redbud
Additional Medium Sade Trees
For use in public and private open spaces

Flame Maple

Deciduous Shrubs

Green Velvet Boxwood
Ruby Carousel Barberry
Ivory Halo Dogwood
Hancock Coralberry
Evergreen Shrubs

Moonshadow Euonymus

Dwarf Periwinkle

Otto Luyken Laurel

Trailing Euonymus

Ornamental Grasses

Variegated Maiden Grass

Perennials

Karl Foerster Feather Grass

Fountain Grass

Woodside Ruby Daylily
Recommendations
DRINKING FOUNTAINS

DRINKING FOUNTAIN SPECIFICATIONS

Materials:
Cast aluminum or steel base, bronze basin

Finish:
Black high gloss Powdercoat.

Application:
Park space, and other approved locations
Design Standards
PEDESTRIAN ORIENTED RETAIL & OFFICE SIGNAGE

RETAIL & OFFICE SIGNAGE RECOMMENDATIONS

Notes:
Retail and office signage in the Murray Fireclay TOD/Redevelopment Area should be pedestrian oriented. The City should consider modifying the City's sign and TOD ordinances to allow for blade or sidewalk monument signs in this district.
STREET SIGNAGE

SIGNAGE SPECIFICATIONS

Finish:
Black trim on signs
Black pole finish

Notes:
Signs fabricated at Murray City’s Sign Shop.
Street sign graphics should be developed as part of a district branding process.

Street Naming Conventions:
All East-West streets should be called "Avenues".
All North-south Streets should be called "Lanes" or "Drives," with the exceptions of Boulevards and Promenades.
WAYFINDING SIGNAGE

SIGNAGE SPECIFICATIONS

Finish:
Black trim on signs
Black pole finish

Notes:
Signs fabricated at Murray City’s Sign Shop.
Wayfinding signage and all sign graphics should be developed as part of a district branding process.

The photograph below is an example of wayfinding signage, the actual signs selected for the Fireclay TOD do not need to match this example exactly, but should be of a similar level of quality and appearance.
DISTRICT MONUMENTATION

MONUMENTATION SPECIFICATIONS

Notes:
Murray Fireclay TOD/Redevelopment Area monumentation will be developed as part of a district branding process. However, monumentation features may include hanging blade signs, stone monuments, or other types of signs. Below are a few examples which
OTHER SIGNAGE OPTIONS

OTHER SIGNAGE OPTIONS
Pole Manufacturer: Holophane

Model Series: North Yorkshire Pole

Materials: Cast iron & steel pole
Glass and cast aluminum luminare

Finish: Black trim on signs
Black pole finish

Pole Size: Various pole heights depending on use
17" diameter base

Notes: Signs fabricated at Murray City's Sign Shop
Sample Products
CAST IRON & STEEL POSTS
TAPERED FLUTED SHAFTS

NORTH YORKSHIRE Series
20" dia. base

SPECIFICATIONS
DESCRIPTION
The lighting post shall be cast iron and steel construction, massively tapered with a deep, 16-flute steel shaft and a classic 16-flute cast iron base. The shaft and base shall be joined together at the factory and shipped as one piece. Slipover, clemskell, or other multiple piece post designs are not acceptable. The post shall be Holophane's catalog number N X0020-CIS/finish.

MATERIALS
The post base material shall be ASTM A48 Class 30 cast iron, formed true to the pattern with complete detail. The shaft shall be tapered and fluted steel with an integral steel tenon and steel bottom cap. All exposed hardware shall be tempered resistant stainless steel. Anchor bolts to be completely hot dip galvanized. Partially galvanized bolts are not acceptable.

DIMENSIONS
The post shall be X'-XX'' in height with a 20'' diameter base. The post shall taper from a 7'' diameter at the top of the base to a 4 1/2'' diameter at the post top. An integral 3'' O.D. tenon shall be provided at the top for luminaire mounting. The post top shall include a transitional donut between the fluted shaft and the tenon.

INSTALLATION
The one-piece post shall be provided with four 3/4'' diameter, L-type anchor bolts to be installed on a 15'' diameter bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.

For finish specifications and color options, see "Finish" section in catalog.
Specifications

GENERAL DESCRIPTION
The Utility Washington Postite luminaire is designed for ease of maintenance with the plug-in electrical module common to each of the luminaires in Holophane's Utility Luminaire Series. The traditional acorn shaped luminaire, while reminiscent of the 1920's, contains a precision optical system that maximizes post spacings while maintaining uniform illumination.

OPTICAL SYSTEM
The optical assembly is a precisely molded thermal resistant borosilicate glass reflector and refractor. The upper portion of this system incorporates a series of reflecting prisms that redirect over 50% of the upward light into the controlling refractor while allowing a soft uplight component to define the traditional acorn shape. Two decorative aluminum top cover options are available. The lower portion uses precisely molded refracting prisms to control the distribution of light to maximize utilization, uniformity, and luminaire spacing. The very top of this assembly is a removable prismatic glass cover with decorative finial for toolless entry into the lamp chamber. Three unique optical assemblies are available, designed for IES type III, type IV, and type V distribution.

LUMINAIRE HOUSING
The luminaire housing, cast of aluminum, provides an enclosure for the plug-in electrical module. The nickel plated lamp grip socket and three slot incoming line terminal block are provided to a five conductor receptacle for ease in connection the electrical module. The slipfitter will accept a 3" by 2-7/16" to 3-1/8" O.D. tonon.

LUMINAIRE HOUSING / DOOR
Cast of aluminum, the housing / door is removable without the use of tools and is retained by a nonconductive lanyard, attached to the door and to the housing. For units with an E.E.I.-N.E.M.A. twist lock photocell receptacle, the door contains an acrylic "window" to allow light to reach the cell.

ELECTRICAL MODULE
The ballast components are mounted on a steel plate that is removable without the use of tools. A matching five conductor plug connects to the receptacle in the luminaire housing to complete the wiring. Where a starting aid is required, it is provided with a separate plug-in connector and can be replaced without the use of tools. For photocell operation, the electrical module is provided with an E.E.I.-N.E.M.A. twist lock photocell receptacle.

BALLASTS
(Refer to Ballast Data Sheet for specific operation characteristics)
50 watt 120 volt High Pressure Sodium (HPS) ballasts are High Power Factor Reactor type. All other HPS ballast are High Power Factor Autotransformer type.
175 watt Metal Halide (MH) ballasts are Peak Load Autotransformer type. 70 and 100 watt MH units are available only with High Power Factor High Resistance type ballast.
All Mercury Vapor (MV) ballasts are High Power Factor Constant Wattage Autotransformer (CWA) type.

FINISH
The luminaire is finished with polyester powder paint applied after a seven-stage pretreatment process to insure maximum durability.

UL
The luminaire is UL listed as suitable for wet locations at a maximum of 40 degrees C ambient temperature.
Banner Arms  
Cast Aluminum

**SPECIFICATIONS**

**DESCRIPTION**
The banner arms shall consist of a round, extruded aluminum pipe and a removable cast aluminum end cap. Bottom eyebolts and banner arms with breakaway couplings, are optional and recommended because of the wind load from the banner.

**CONSTRUCTION**
The banner arm shall be welded to a mounting plate or a post clamp. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

**MATERIALS**
The end caps shall be, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-85. The banner arm, mounting plate and post clamp shall be aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be stainless steel.

**INSTALLATION**
The bolt-on banner arm shall bolt to a mounting channel provided on the side of the post with four stainless steel screws. Eyebolts shall screw into the post or clamp on. All clamp-on mountings shall clamp around the post, secured with four 3/8" hex head bolts. (Post dia. at mounting point must be specified.) A minimum mounting height of 10 feet is recommended for the bottom banner arm. (Arms are not designed for pedestrian interference.) (For information on specifying orientation and mounting heights see "Orientation Guide" in the back of the Accessories section of catalog.) (Banners to be provided by others.)

**DIMENSIONS**
The banner arms shall be available in 1.55", 1.32", 1.66" or 1.9" O.D. and to the specified length.

For finish specifications and color options see "Finish" section in catalog.

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**OTHER MOUNTING OPTIONS**

**OTHER OPTIONS**

**CUSTOMS**

Banner arms can add substantial wind loading to the post you select. Please coordinate the correct post size and style with the factory.
Banner Arms  Cast Aluminum

MOUNTING DETAILS

Bolt-On Mounting

XX"

(4) Stainless Steel Screws to Post

BAXXH/1/80

Clamp On Mounting

Clamp with (4) 3/8" Hx6 Hdl. Bolts to Clamp Or Post

BAXXH/80

SUGGESTED BANNER ARM USAGE

BA18R/1.25/CO2(180)S
(Banner Arms: 18". Raleigh end cap 1.25" Ø / Clamp On: 2 arms at 180°, 5" Ø post shaft)

BA25R/1/CO2(180)S
(Banner Arms: 25". Raleigh end cap 1.25" Ø / Clamp On: 2 arms at 180°, 5" Ø post shaft)

BA25R/2/CO2(180)S
(Banner Arms: 25". Raleigh end cap 2.5" Ø / Clamp On: 2 arms at 180°, 5" Ø post shaft)

BA30R/1/CO2(180)S
(Banner Arms: 30". Raleigh end cap 1.5" Ø / Clamp On: 2 arms at 180°, 5" Ø post shaft)

BA36R/2/CO2(180)S
(Banner Arms: 36". Raleigh end cap 2" Ø / Clamp On: 2 arms at 180°, 5" Ø post shaft)

BA42R/2/CO2(180)S
(Banner Arms: 42". Raleigh end cap 2.25" Ø / Clamp On: 2 arms at 180°, 5" Ø post shaft)

ORDERING GUIDE

Banner Arm End Caps

H Std. Half Sphere Cap
B Ball Cap
A Acorn Cap
R Raleigh Cap

Banner Arm Diameters

J.75 3/4" Pipe (1.05" O.D.)
J1 1" Pipe (1.32" O.D.)
J1.25 1-1/4" Pipe (1.65" O.D.)
J1.5 1-1/2" Pipe (1.95" O.D.)

Mounting Options

□/BO Bolt On (Bolts only Post)
□/CO Clamp On (Clamps around Post)
□/CO2(180) Clamp On (Clamps at 180°)
□/CO2(90) Clamp On (Clamps at 90°)
□/CO4(90) Clamp On (Clamps at 90°)
□/2EB Two Eyebolts on Arm
□/2EB Decorative Scroll & Eyebolts on Arm

Eyebolts (for securing banner bottom)

□/EB/BO Bolt On Eyebolt (Bolts only Post)
□/EB/CO Clamp On Eyebolt (Clamps around Post)
□/EB/CO2(180) Clamp On Eyebolt (Clamps at 180°)
□/EB/CO2(90) Clamp On Eyebolt (Clamps at 90°)
□/EB/CO4(90) Clamp On Eyebolt (Clamps at 90°)

Material / Finish

□ -CA/8K Cast Alum./Black (Std.)
□ -CA/DB Cast Alum./Dark Bronze
□ -CA/8K Cast Alum./Dark Green
□ -GAC/8 Cast Alum./Custom Color
□ -GAPP Cast Alum./Prime Painted

US-2400
Traffic Signs
Cast Aluminum Frames

SPECIFICATIONS

DESCRIPTION
The traffic sign frame shall be a onepiece casting with a solid backing and a 1" thick border. The sign frame shall be an octagonal, square, rectangular, triangular, or diamond shaped.

CONSTRUCTION
The sign frame shall be welded to a post clamp or a post top fitter. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

MATERIALS
The sign frame shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The post top fitter and post clamp shall be aluminum, ASTM 6061, heat treated to a T6 temper. All hardware shall be stainless steel.

INSTALLATION
The clamp-on sign frame shall clamp around the post, secured with four 3/8" hex head bolts. (Post diameter at mounting point must be specified.) The post top mounting shall fit on a 3" OD x 3" tall tenon with six 1/4" diameter socket set screws. (Lettering and graphics provided by others)

DIMENSIONS
The traffic sign dimensions shall be as shown on the drawings. Other sizes are available. Contact Holophane for more information. For finish specifications and color options see "Finish" section of catalog.

OPTIONS

VRS1824/JT
(with Post Top Mounting)

VRS1824/JTAF
(with Post Top Mounting and Decorative Post Top Finish)

VRS1824/CQ
(with Clamp On Mounting)
Street Signs
Cast Aluminum Rectangular Frames

SPECIFICATIONS

DESCRIPTION
The street sign frame shall be a rectangular shaped, one-piece casting with a solid backing and a 1" thick border. The sign frame has an optional smaller top casting typically used for cross street name. The sign frame is identical on both sides.

CONSTRUCTION
The street sign frame shall be welded to a mounting plate, post clamp, or post top filter. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

MATERIALS
The sign frame shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The mounting plate, post clamp, post top filter, and banner arm shall be aluminum, ASTM 6061, heat treated to a T6 temper. All hardware shall be stainless steel.

INSTALLATION
The bolt-on sign frame shall bolt to a mounting channel on the side of the post with four stainless steel screws. The clamp-on mounting shall clamp around the post, secured with four 3/8" hex head bolts. (Post dia. at mounting point must be specified.) The post top mounting shall fit on a 3" O.D. x 3" tall tenon with six 1/4" dia. socket set screws. (Lettering and graphics provided by others) (For information on specifying orientation and mounting heights, see "Orientation Guide" in the back of the Accessories section.)

DIMENSIONS
Sign frame shall measure 37.5" wide and 8" tall with a 6" x 35.5" opening for graphics mounting. The optional smaller frame shall measure 20" wide and 5" tall with a 3" x 18" opening for graphics mounting.

For finish specifications and color options, see "Finish" section in catalog.

OTHER MOUNTING OPTIONS

STS1R/BO
(single sign frame w/ bolt-on mounting)

STS2R/BO
(double sign frame w/ bolt-on mounting)

STS1R/PT
(with post top mounting)

STS1R/CO
(with clamp-on mounting)

STS1R/BA40/BO
(hanging from banner arm with bolt-on mounting)

STS1R/BA40/CO
(hanging from banner arm with clamp-on mounting)

DECORATIVE OPTIONS

STS1R/PT/AF
(decorative finial)

STS2R/BO/S
(decorative scoll)

STS2R/BA40/BO/S
(decorative scoll on banner arm)
Street Signs Cast Aluminum Rectangular

MOUNTING DETAILS

Bolt-On Mounting

(4) Stainless Steel Screws to Post

STS1R/BO

Post Top Mounting

(6) 1/4" Socket Set Screws

STS1R/PT

Clamp-On Mounting

Clamp with (4) 3/8" Hex Hd.

Bolts to Clamp On Post

STS1R/COXX

Hanging with Bolt-On or Clamp-On Mounting

(4) Stainless Steel Screws to Post

(Also available with Clamp On Mounting

See above and front page)

Banner Arm

STS1R/BA40/BO (Bolt-On)

STS1R/BA40/COXX (Clamp-On)

TWIN SIGN ORIENTATION

For Twin Signs (with Bolt On mounting only) a 2 is added before the part # (example: 2STS1R/BO)

For information on specifying orientation and mounting heights see Orientation Guide in the back of the Accessories section in the catalog.

ORDERING GUIDE sample catalog number

2STS2R/BA40/BO/5-CA/BK

Sign Frames

STS1R Single Frame

STS2R Double Frame

2STS3R* Twin Single Frame (Bolt On only)

2STS2R* Twin Double Frame (Bolt On only)

* NOTE:

For Twin Signs (with Bolt On mounting only) a 2 is added before the part number.

For information on specifying orientation and mounting heights, see Orientation Guide in the back of the Accessories section in the catalog.

Mounting Options

(lab in _, with diameter of post shall, at clamp, in inches)

/BO* Bolt On

/CO Clamp On

/CO2(90) Clamp On, Twin Signs at 90°

/PT Post Top

/PT2 Post Top, Twin Signs

/BA40/BO* Banner Arm, 40°, Bolt On

/BA40/CO Banner Arm, 40°, Clamp On

/BA40/CO2(90) Banner Arm, 40°, Clamp On, 2 at 90°

Decorative Options

JS Scroll (On Sign or Banner Arm)

JAF Finial (On Post Top Frame)

Material / Finish

-CA/BK Cast Alum./Black (Std.)

-CA/BB Cast Alum./Dark Bronze

-CA/DG Cast Alum./Dark Green

-CA/CQ Cast Alum./Custom Color

-CA/PP Cast Alum./Prime Painted

HOLOPHANNE
LEADER IN LIGHTING SOLUTIONS
An Avocality Brand/Company
11401 Coldwater Canyon Ave., Torrance, CA 90509
US-2308
Cycle Shed™ Bicycle Lockers - CS™ Series & Electronic eCS Series

CS™ Series and eCS Series Bicycle Lockers by Creative Pipe, Inc. are made to the most stringent specifications and quality standards to provide ultimate security and resistance to vandalism, corrosion, and theft. At Creative Pipe, Inc. we offer lockers made from solid or perforated sheet steel (electro-galvanized mild or stainless) or polyethylene (CS™ Series only).

Since 9-11, we have also offered highly transparent perforated sheet steel lockers. Being transparent, this perforated material greatly increases public security by diminishing the chances that bicycle lockers will be used by homeless people, as drug enclosures, or as a place to store and detonate explosive devices. On our sheet steel lockers, perforation is offered on the door, side, or roof panels, or any combination thereof. On our polyethylene lockers, perforated sheet steel viewing windows are available.

eCS Smart Bicycle Locker

The revolutionary eCS™ Bicycle Locker is the only bicycle locker specifically designed to embrace modern technology and to offer the full range of secure bicycle parking options that modern micro-electronics can offer. Functional characteristics long desired by both cyclists and facilities managers such as keyless on-demand parking, pay-parking, usage monitoring, automated bicycle rental, and a wide range of other options can now be provided at a reasonable cost by the multi-faceted eCS Bicycle Locker. In addition, eCS Bicycle Locker can also offer traditional assigned-key parking. eCS Bicycle Lockers' exceptionally low re-laying costs means that each eCS Bicycle Locker customer is guaranteed to receive a unique, one-of-a-kind key. Finally, eCS Bicycle Locker also offers full flexibility of choice in panel materials to custom with particular security, durability, fire-resistance, weather-resistance, visibility, aesthetic, and budgetary requirements. Equally important, eCS Bicycle Locker's frame-and-panel system is the only system specifically engineered to offer high transparency with maximum bicycle security.

CAPACITY:
Single capacity triangular unit (pictured); single capacity rectangular unit; traditional double capacity rectangular unit diagonally divided with a lockable door on either end (pictured). Designate "CS1-T", "CS1-R", or "CS2" for a single capacity triangular or rectangular eCS or a double capacity eCS respectively.

MATERIAL:
Frame: Reinforced 12 gauge tubular sheet steel.
Options: 12 or 14 gauge perforated sheet steel with 38" hole; Solid 14 or 16 gauge sheet steel.
Locking Bar: Full length stainless steel with three point locking.

AVAILABLE FINISHES:
Graffiti resistant T.G.L.C. polyester powder; optional stainless steel with satin finish.

*PLEASE PHONE US OR VISIT OUR WEBSITE FOR MORE COMPLETE INFORMATION ON THIS UNIT.

Cycle Shed™ Model #: CS 2.C™, CS1.C, or CS1.C-T

SPECIFICATIONS
Dimensions: Length 76"; Width 39"; Height 47". Note: Single capacity units, CS 1.C, are 30" wide.
CAPACITY
1 or 2 bicycles per modular unit (double capacity units are diagonally divided with a door on either end). Units can be used individually or in a linear fashion with other units sharing a common wall. Single capacity units are also available. Please designate "CS1-C" for a single capacity triangular unit or "CS1-C-T" for a single capacity rectangular unit.
MATERIAL
DOOR PANELS AND DOOR FRAMES: 12 gauge sheet steel; optional perforated 12 gauge sheet steel door frame.
DIAGONAL PARTITION: External grade OSB. Optional sheet steel or perforated sheet steel.
CONSTRUCTION
Heavy duty 12 gauge tubular steel door frames at both ends. All fasteners are internal.
Hinges
Heavy duty full length 14 gauge stainless steel piano door hinges.

Locks
Door locks are pop-out T-handles with removable lock cylinder manufactured by either the Tubar Lock Company, Ace Lock Company or the Merco High Security Lock Company. Locks are individually keyed and equipped with a vertical locking bar which runs the full length of the door from top to bottom. Locks can also be master keyed. Also available with padlock/"U" lock handles to accommodate either a padlock or "U" lock. (See photo below)

FEATURES AND ACCESSORIES
Number plates (sequentially numbered). Proprietary stainless steel surface mounted leveling and anchoring system.
FINISH
Graffiti resistant polyester powder coat. Over 180 colors available. Two-tone or multi-color schemes available. Optional stainless steel lockers with satin finish available upon request.
INSTALLATION
Hung Surface Mount: Proprietary surface mounted leveling and anchoring system secured by stainless steel anchor bolts and possessing a minimum vertical adjustment of 5 inches.
Assembly
Lockers ship broken down for on-site assembly. Doors are factory assembled and hang in their frames prior to shipment.

Accommodates either a Padlock or "U" Lock

CS 2.C: perforated door & side panels
CS 2.C-T: with optional 2-tone color

www.creativepipe.com 1-800-644-8467 45
Specifications

Division 12 – Furnishings
#12 93 00, Site Furniture
#12 93 13, Bicycle Racks

SPECIFICATIONS FOR BOLA™ BICYCLE RACK
05/2006

1. PRODUCT NAME
Site and Street Furniture:
Bola bicycle rack

2. MANUFACTURER
Landscape Forms, Inc.
431 Lawndale Avenue
Kalamazoo, MI 49048
Phone: (800) 521-2546
Phone: (269) 381-0396
Fax: (269) 381-3455
Email: specify@landscapeforms.com

Landscape Forms products are supported by the following manufacturer’s qualifications that must be considered to evaluate a product claimed to be an equal substitute.

A. We have been designing and manufacturing site furnishings for the commercial building industry for 35 years.

B. We have an installed base of products worth in excess of one hundred million dollars.

C. We have assets in excess of twenty million dollars.

D. We are able to fill orders within a 40-day schedule.

3. PRODUCT DESCRIPTION
Specifications are subject to change without notice.

Basic Use: For heavy use, public space bicycle rack to be used to secure bicycles when left unattended.

Capacity: Two bicycles.

Composition and materials:
Constructed of 1.5” o.d. x .120” wall type 304 stainless steel tubing.

Sizes, Mounting Options, Finishes:
Sizes: Overall installed dimensions are 1-1/2” deep by 27-1/2” wide by 32” high.

Mounting Options: Embedded only.

Finish: #4 satin finish on bare metal.

4. TECHNICAL DATA
Recycled Content: Bola has a recycled material content of 65% or greater. Post consumer content is 50% or greater and pre consumer content is 15% or greater. Bola is 100% recyclable.

5. INSTALLATION
Installation is to be done by Customer or his agent in accordance with specifications of Customer’s architect or planner.

6. AVAILABILITY AND COST
Availability: Orders are processed after a signed purchase order or letter order plus approval of all shop drawings or special options (if required). Delivery time varies depending on time of year and customer requirements.

Costs: All prices are from current price list and are FOB, Kalamazoo, Michigan. For specific prices and delivery time, contact: Landscape Forms, Inc.
431 Lawndale Avenue
Kalamazoo, Michigan 49048
(800) 521-2546.

7. WARRANTY
Landscape Forms, Inc. warrants its products to be free from defects in material and/or workmanship for a period of three years from the date of invoice. All claims must be submitted in writing, with copy of invoice to: Landscape Forms, Inc.
431 Lawndale Avenue
Kalamazoo, Michigan 49048

Landscape Forms, Inc., hereby disclaims all other warranties, express or implied, including any warranty of merchantability of fitness for a particular purpose. This warranty does not apply to damage resulting from accident, alteration, misuse, tampering, negligence, or abuse.
Specifications

Landscape Forms, Inc. shall, at its option, repair, replace, or refund the purchase price of any items found defective upon inspection by an authorized Landscape Forms service representative.

The foregoing shall constitute the sole and exclusive remedy of the buyer.

Purchasers should be aware that normal use of these high quality products might result in superficial damage affecting the finish. Scratches, nicks, and dents are to be considered normal wear and tear, and are not the responsibility of Landscape Forms.

8. MAINTENANCE
Bola is maintenance free.

9. TECHNICAL SERVICES
Call Landscape Forms, Inc. for information.

10. FILING SYSTEMS
Additional information and samples are available from manufacturer upon request.

landscapeforms
431 Lawndale Avenue, Kalamazoo, MI 49048
Ph: 800.521.2546, Ph: 269.381.0398, Fax: 269.381.3455
The MIDTOWN Series
Litter receptacle
Bench with back is covered by patent no. des. 457,742. All other Midtown pieces are Exclusive By Design™.

Beautify your surroundings with Keystone Ridge Designs’ exclusive collection of litter receptacles. The Midtown allows you the freedom to coordinate with a bench series, or mix and match for an eclectic motif.

- Coordinating benches, ash urns, planters, tables and other furnishings
- Exclusive KEYSHEILD® polyester powder coating finish—our stamp of armored excellence that is foremost in the industry
- Fully assembled unit

Standard Features
- Color: standard KEYSHEILD® powder coat
- Liner: commercial grade plastic
- Lid: matching flat lid with anti-theft lanyard
- Support: elevated or adjustable

Custom Options
- Color: custom KEYSHEILD® powder coat
- Liner: galvanized or powder coated steel
- Sleeve: KEYSHEILD® powder coat color
- Lid: elevated, elevated ash, dome, ash dome, dome with galvanized door, recycling and trash
- Support: bury extension

Enhancements
- Ash filler
- Ash sifter
- Custom printed decals
- Cast bronze plaques
- Custom laser cut plaques

ASH CAPACITY LIDS
- Ash Dome
- Ash Dome
- Trash Flat
- Recycle Flat
- Dome, advanced dome

MESSAGE LIDS
- Trash Flat
- Recycle Flat
- Dome

KEystone RIDGE DESIGNS
1-800-284-8208
www.keystoneridge designs.com
**The MIDTOWN Series**
Litter receptacle
Bench with back is covered by patent no. des. 457,742. All other Midtown pieces are Exclusive By Design™

**KEYSHIELD® Metal Finish**
The KEYSHIELD® finish protects each piece of furniture from chipping, cracking, UVA damage and provides unparalleled corrosion resistance. KEYSHIELD® is strength, durability and quality - our assurance of armored excellence. Steel products are finished with a two-coat powder coating process applied to a 7-15 mil thickness. Substrate preparation includes sandblasting to a white finish to remove all surface contaminants, the ultimate degree in powder cost preparation. The raw product then receives a corrosion-inhibiting phosphate coating prior to the application of the powder coating. The first coat applied to the substrate is zinc rich epoxy powder primer used exclusively on sandblasted parts. The second coat is a colored polyester powder coating. Both coats are electrostatically applied and oven cured according to powder coating manufacturing specifications to create a smooth, satin-like finish. The result of this two-coat process is an optimum non-porous armor that defines the Keystone Ridge Designs' stamp of quality. KEYSHIELD® is a registered trademark of Keystone Ridge Designs, Inc.

**Fully Assembled Unit**
The Midtown litter receptacle is manufactured as a fully assembled unit to provide ultimate stability and avoid damage during transit to the site.

**Proprietary Statement**
Keystone Ridge Designs, Inc. is proud to offer the design community exceptional site amenities. Due to the time and resources invested in designing, manufacturing and marketing Keystone Ridge Designs' products and services, we pursue design patents, copyrights, trademarks and service marks whenever possible. Any unlawful duplication or misrepresentation of Keystone Ridge Designs' products will be rigorously protected.

---

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Diameter (B)</th>
<th>Overall Height</th>
<th>Overall Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT3-22</td>
<td>Midtown litter receptacle 22 gal</td>
<td>25”</td>
<td>27 1/4”</td>
<td>26 1/4”</td>
<td>156 lbs</td>
</tr>
<tr>
<td>MT3-32</td>
<td>Midtown litter receptacle 32 gal</td>
<td>31 1/4”</td>
<td>33 1/4”</td>
<td>32 1/4”</td>
<td>164 lbs</td>
</tr>
<tr>
<td>MT3-38</td>
<td>Midtown litter receptacle 38 gal</td>
<td>31 1/4”</td>
<td>55 1/4”</td>
<td>52 1/4”</td>
<td>175 lbs</td>
</tr>
</tbody>
</table>
CityView Steel Bar End Benches
A popular vertical strap design, the CityView bench is suited for many urban seating solutions. Delivered as a fully assembled, rigid welded unit, this bench bolts directly to a concrete pad for permanent installation and is virtually vandal resistant. In addition to requiring no assembly, this bench remains maintenance free.

Standard Lengths
The CityView benches are available in standard lengths of
6 ft. - Actual bench length is 72".
8 ft. - Actual bench length is 96".

Bench Style Options

The standard CityView bench (CV1-1000) is a backed seating unit.

For a lower profile look a flat panel CityView bench (CV1-1100) is also available.

Cast End Option
The CityView cast end captures the tradition of a cast iron bench while producing a modern art-nouveau style. Both backed and flat benches are available with cast iron ends.

Arched Back Option
Backed CityView benches are also available with an arched seat panel (CV1-1200). This option adds some additional contour to the standard CityView bench.

Mounting
Benches are secured with four 1/2" dia. x 4-5" long stainless steel anchor bolts (customer supplied).

Materials
- Seat straps – 5/16" x 1 1/2" steel flat bar
- Support pipe – 1" dia. schedule 40 steel tubing
- End units – 1" square solid steel bar
- Foot plates – 5/16" x 1 1/2" steel flat bar

Center Armrest Option
CityView benches are available with a matching 1" square steel bar center armrest. Armrests are welded in place and either one or two are available per bench.

To Specify CityView Benches

```
 CityView Benches
  1 - 6 ft. Length
  2 - 8 ft. Length
  0 - Backed
  1 - Flat
  2 - Arch Backed
  0 - Steel Bar Ends
  1 - Cast Iron Ends
  2 - Steel Bar Ends, No Armrests
  0 - 1 x Center Armrest
  1 - 1 x Center Armrest
  2 - 1 x Center Armrest
  P - Powder Coat Finish
  D - Duracoat Finishes
```

P.O. Box 22326  Lincoln, NE 68542 :: p. 402.421.9464 :: f. 402.421.9479
Pedestal Mounted Drinking Fountain

Model 3511 is a "Hi-Lo", barrier-free, antique style, historic fountain made of heavy-duty cast aluminum with a powder-coated finish. It is designed for pedestrian and physically challenged users. It is suited for architectural styles exhibiting an "old town" ambiance, as well as playgrounds and parks. The standard color is black; other colors available at additional cost. Please contact customer service for a color chart or samples.

Model 3511 meets current Federal Regulations for the disabled including those in the Americans with Disabilities Act. Haws manufactures drinking fountains, electric water coolers and electric drinking fountains to be lead-free by all known definitions including ANSI/NSF Standard 61, Section 9, California Proposition 65 and the Federal Safe Drinking Water Act.

Components:

Bubbler Head: Model 5705, sculpted, polished chrome-plated brass, shielded, anti-squirt, integral basin shank, vandal-resistant bubbler head features laminar flow to prevent splashing.

Valve: Model 5874, patented lead-free forged brass, push activated, front accessible for stream adjustment and servicing, replaceable pressure regulation control cartridge. (Patent No. 6,981,692).

Waste Strainer: 0005624292 is a satin chrome-plated vandal-resistant waste strainer with anti-airlock draining feature. 1-1/2" NPS.

Push Button: Model PBA7, push button assembly has a polished chrome-plated finish.

Accessory: 0006983506 Spanner wrench is used to remove the PBA6 and PBA7 push button cover used with the 5874 valve. Also used to remove retaining ring for replacing the cartridge and screen (VRK5874 kit) in 5874 valve assembly.

Options/Accessories: (Additional costs may apply)

Freeze Resistant Pedestal Drinking Fountain: Model 3511FR, "Hi-Lo", barrier-free, freeze-resistant, antique style historic fountain made of heavy-duty cast aluminum with a powder-coated finish.

Bubbler Head: Model 5725 EnviroGard™ bubbler is a polished chrome-plated solid brass bubbler head with stainless steel water activated pop up canopy. (Patent No. 7,028,282)

Hose Bib: Model 6278, compression hose bib faucet assembly with rough chrome-plated finish.

Bib Faucet: Model 6250LF, self-closing, plain end, lead-free, brass bib faucet with polished chrome-plated finish.

Sand Trap: Model 6635, sand trap has a see through acrylic canister with lifting handle. Sand trap is installed within the pedestal fountain which prevents tampering to the collection canister. Installation of this sand trap precludes the use of the 6278 hose bib and the 6250LF bib faucet.

Sand Trap: Model 6611, sand trap for installing adjacent to pedestal drinking fountains to help prevent debris and contaminants from clogging waste line.

Premier Colors: Nine powder-coated colors, (green, silver, red, blue, black, brown, orange, yellow and white), available for an additional charge.

Premier Finishes: Haws standard satin or high polished finishes in stainless steel, rose or gold available. Specify model with finish by name.

DISCLAIMER: Continued product improvements make specifications subject to change without notice. Check www.hawsco.com for the latest product information and updates.

1455 Kleppe Lane, Sparks, NV 89431
x:775.359.4712 f:775.359.7124
e: info@hawsco.com website: www.hawsco.com

30 March, 2007
AVAILABLE OPTIONS:
FOILER COATING
- 10 STANDARD COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)

NOTES:
1. DRAWING NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBlasted, Etched, Phosphated, Preheated, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PREHEATED, PREHEATED AND COATED WHILE HOT TO FULL CHEVRELS AND BUILO MULTICAPTURE FILM. COATED PARTS ARE THEN FULLY COOLED TO STATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH COAT AVERAGES 8-10 MILS (200-250 MICRONS).
3. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. ANCHOR BOLTS PROVIDED BY OTHERS.
5. FOR HIGH SALT ABRUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
6. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
7. THIS PRODUCT IS SHIPPED PARTIALLY ASSEMBLED.

S-6
IRONSITE® SERIES
FREE coils

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REV. B/12/03 DRAW L.J.C.F.
SPECIFICATIONS

BOLLARDS

U-Shaped, 90° style. All materials are either cast or fabricated.

Material—Fabricated Bollards:
Steel cylinders, with aluminum tops and bases. Standard finish is Powdercoat.

Material Options—Cylinders:
Stainless steel, Aluminum.

Finish Options for cylinders and trim castings:
Paint (not coated), Black, High Polish.

Sizes:
4", 6", 8", 10" diameters x 24'-36' height, as specified.

Material—Cast Bollards:
Standard materials cast Aluminum (not for SICH). Standard finish is Powdercoat.

Material Options:
Bronze, Black, Brass, Black Bronze.

Finish Options:
Paint (not coated), Black, Patina, High Polish.

Lighted Bollards:
Light source is LED, bonded and all lighting hardware are equipped with the necessary hardware needed for installation.

Mounting Options:
Cast-in (Bolt-down surface mount), or Removable (Base below).

BOLLARD MOUNTING OPTIONS

CAST- IN

BOLT DOWN

REMOVEABLE

URBAN ACCESSORIES CLASSIC BOLLARDS

BIKE RACKS

Materials:
Fabricated and coated steel construction. Standard finish is powdercoat.

Optional finishes in hot dip galvanize.

Mounting Options:
Bollard (surface mount), or cast-in place.
SPECIFICATIONS

TREE GRATES, TRENCH GRATES, DRAIN COVERS, MANHOLE COVERS, & BUILDING BUTTONS

Materials:
Cast Iron per ASTM A48; Cast Ductile Iron (for vehicular traffic), or Cast Bronze per ASTM B671.

Materials Options:
Cast Aluminum per ASTM B201; Cast Ductile Iron (for vehicular traffic), or Cast Bronze per ASTM B671.

Finish Options:
Iron & Ductile Iron- Powdercoat, Paint (footpaths), &/or Coat.
Aluminum & Bronze- Powdercoat, Patina, Brush; & High Polished.

Lighthouses, Electrical Access Holes, Fountain Jet Holes: All patterns available with hubs to accommodate features, per customer specifications. Also available cast metal and aluminum covers.

Sizes:
Dimensions stated are nominal. Due to variations in metal, shrinkage amounts may vary slightly from casting to casting; and may differ over all length of trench runs. Castings typically measured 1/8" under the size called out.

Frames are typically 3/8" oversized.
For exact dimensions, call Urban Accessories directly.

CUSTOM LIGHT PORT ORDERING INFO

- Indicate Location/Type of Light Port(s)
- Hole diameter follows outside edges to center of light port
- If a lightport 2 x 2 x 2 x 2 lightport: 2 sections, there will be two pattern charges

3 x 4 TREE GRATES = TWO SECTIONS
5 TREE GRATES = 4 SECTIONS
6 TREE GRATES, VARY PATTERN

FRAME DETAILS

FRAME
(TOP SUPPORTED AT HEIGHT OF SURROUNDING CONCRETE SURFACE)

CONCRETE FORMBoARDS

PERIMETER FRAME
(3 REBAR)

PERIMETER FRAME
(3 REBAR)

PERIMETER FRAME
(3 REBAR)

PERIMETER FRAME
(3 REBAR)

PERIMETER FRAME
(3 REBAR)

PERIMETER FRAME
(3 REBAR)

GRATE BOLT-DOWN DETAIL

3/8" THICK EB. CONT. STAND-OFF

PERIMETER FRAME

PERIMETER FRAME

PERIMETER FRAME

PERIMETER FRAME

PERIMETER FRAME

PERIMETER FRAME

"P" PAVER
USED WITH PAVERS, SAND, SETTING BED

"A" ADJUSTABLE
USED WITH PAVERS, GRANUL SETTING BED

"PA" PAVER/ADJUSTABLE
USED WITH PAVERS, CONTINUOUS SURF

0.25-20 UNC 5-S. BOLT HEAD SCREW PERIMETER FRAME

2 7/8 X 2 X 7-3/4 FOR 1/2" CONCRETE ANCHOR AS PER LTR.
INSTRUCTIONS (BY INSTALLER)

2 7/8 X 2 X 7-3/4 FOR 1/2" CONCRETE ANCHOR AS PER LTR.
INSTRUCTIONS (BY INSTALLER)

2 7/8 X 2 X 7-3/4 FOR 1/2" CONCRETE ANCHOR AS PER LTR.
INSTRUCTIONS (BY INSTALLER)

2 7/8 X 2 X 7-3/4 FOR 1/2" CONCRETE ANCHOR AS PER LTR.
INSTRUCTIONS (BY INSTALLER)
Maps, Roads
Updated April 8, 2015
MURRAY FIRECLAY TRANSPORTATION MASTER PLAN

SUMMARY OF IMPROVEMENTS

Proposed Roads
1. Primary North-South
2. Primary East-West
3. Promenade
4. Secondary St. - Rail Adjacent
5. Residential Street
6. Underpass/Overpass
7. Alley

Proposed Trails and Pedestrian Ways
A. Pedestrian Trail
B. Creekside Trail
C. Railside Trail
D. Paseo (semi-private)

Proposed Connections / Expanded Connections
I. Fireclay Ave. over light rail and commuter rail to Commerce Dr.
II. 200 West bridge over 4500 South
III. 55 West connection to 4500 South
IV. 200 West bridge upgrade or alternate bridge
V. West Temple bridge over Cottonwood Creek
VI. Central Ave. (4115 South) over commuter rail
VII. Pedestrian crossing over/under commuter rail @ 4400 South
VIII. Pedestrian crossing over/under commuter rail @ 4200 South

Gateways
★ 55 West @ 4500 South
★ Main @ 4500 South
★ Fireclay @ State Street
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Includes</td>
<td>Main Street</td>
<td>Fireclay Ave.</td>
<td>Bishop Blvd.</td>
<td>Fireclay Ave. 4325 S (West Temple to 200 W)</td>
<td></td>
<td>Stratford Way</td>
<td>Heritage Lane</td>
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<tr>
<td></td>
<td>(State St. to Commerce Dr./300 W)</td>
<td></td>
<td></td>
<td>Fireclay Ave. 4300 S (West Temple to 200 W)</td>
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<td>Damore Way</td>
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<td></td>
<td></td>
<td>Central Ave./4115 S under commuter rail</td>
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<td>Fireclay Ave. 4250 S under commuter rail</td>
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<td>400 W under 4050 S</td>
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<td>Thoroughfare Type</td>
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<td>Local</td>
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<td>Right-of-Way Width</td>
<td>62' to 102'</td>
<td>71' to 91'</td>
<td>85'</td>
<td>61'</td>
<td>69'</td>
<td>Option A (preferred) - 57'</td>
<td>Option B (subject to City approval) - 49'</td>
<td>41'</td>
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<tr>
<td>Private Setback Width</td>
<td>3' to 10' each side</td>
<td>0' to 10' each side</td>
<td>9' each side from back of sidewalk</td>
<td>5' min. from back of sidewalk</td>
<td>7' min. from back of sidewalk</td>
<td>4' min from back of sidewalk</td>
<td>3' min. from back of curb</td>
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<td>Pavement Width</td>
<td>51' (face of curb to face of curb)</td>
<td>40' (face of curb to face of curb)</td>
<td>52' (face of curb to face of curb, excluding median)</td>
<td>25' (face of curb to face of curb)</td>
<td>33' (face of curb to face of curb)</td>
<td>35' (face of curb to face of curb)</td>
<td>26' (face of curb to face of curb)</td>
<td>22' (back of curb to back of curb)</td>
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<td>Movement</td>
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<td>Design Speed</td>
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<td>35 mph</td>
<td>20 mph</td>
<td>5 mph</td>
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<td>Pedestrian Crossing Time (3.3 ft per second)</td>
<td>15 seconds</td>
<td>12 seconds</td>
<td>19 seconds including median break</td>
<td>8 seconds</td>
<td>10 seconds</td>
<td>8 seconds</td>
<td>8 seconds</td>
<td>5 seconds</td>
</tr>
<tr>
<td>Traffic Lanes</td>
<td>2 travel lanes - 11' each</td>
<td>2 travel lanes - 11' each</td>
<td>2 travel lanes - 16' each</td>
<td>1 one-way travel lane - 14'</td>
<td>2 travel lanes - 11' each</td>
<td>2 travel lanes - 11' each</td>
<td>2 travel lanes - 9' each</td>
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<tr>
<td>Parking Lanes</td>
<td>2 marked parallel parking lanes – each (including gutter)</td>
<td>2 marked parallel parking lanes – each (including gutter)</td>
<td>2 marked parallel parking lanes – each (including gutter)</td>
<td>2 marked parallel parking lane – 9' (including gutter)</td>
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<td>None, but on-street parking permitted</td>
<td>none</td>
<td>none</td>
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<tr>
<td>Curb and Gutter</td>
<td>2 curb/gutters - 3.5' each</td>
<td>2 curb/gutters - 3.5' each</td>
<td>2 curb/gutters - 2.5' each</td>
<td>3 curb/gutters - 2.5' each</td>
<td>3 curb/gutters - 2.5' each</td>
<td>2 curb/gutters - 2.5' each</td>
<td>2 curb/gutters - 2.5' each</td>
<td></td>
</tr>
<tr>
<td>Public Frontage Type</td>
<td>Commercial</td>
<td>Commercial</td>
<td>Residential</td>
<td>Residential</td>
<td>Residential</td>
<td>Residential</td>
<td>Residential</td>
<td>Service</td>
</tr>
<tr>
<td>Landscape and Walkway</td>
<td>2 sidewalks - min. 10' each</td>
<td>2 sidewalks - min. 10' each</td>
<td>2 sidewalks - min. 6' each</td>
<td>3' including curb)</td>
<td>planted median with trees</td>
<td>Park Side of Street:</td>
<td>Rail Side of Street:</td>
<td>Option A (preferred)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Landscape Options:</td>
<td>Landscape Options:</td>
<td>Option B (subject to City approval)</td>
</tr>
<tr>
<td></td>
<td>2 sidewalks - min. 6' each</td>
<td>2 sidewalks with 5'x5' trees or planters</td>
<td>2 sidewalks with 5'x5' trees or planters</td>
<td>10' trail</td>
<td>10.5' park strip w/ trees (including curb)</td>
<td></td>
<td>2 sidewalks - 10.5' each (including curb)</td>
<td>none</td>
</tr>
<tr>
<td></td>
<td>Landscape Options:</td>
<td>5'x5' concrete strip path (including curb)</td>
<td>5'x5' concrete strip path (including curb)</td>
<td></td>
<td></td>
<td>Building Side of Street:</td>
<td>Building Side of Street:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3' sidewalk</td>
<td>10.5' park strip w/ trees (including curb)</td>
<td>10.5' park strip w/ trees (including curb)</td>
<td>Building Side of Street:</td>
<td>3' sidewalk</td>
<td>3' sidewalk</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.5' sidewalk</td>
<td></td>
<td></td>
<td>Building Side of Street:</td>
<td>3' sidewalk</td>
<td>3' sidewalk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traffic Calming</td>
<td>4' to 9' pedestrian bulb-out at corners, mid-block crossings on blocks over 300' long</td>
<td>4' to 9' pedestrian bulb-out at corners, mid-block crossings on blocks over 300' long</td>
<td>4 to 9' pedestrian bulb-out at corners, mid-block crossings on blocks over 300' long</td>
<td>4 to 9' pedestrian bulb-out at corners, mid-block crossings on blocks over 300' long</td>
<td>4 to 9' pedestrian bulb-out at corners, mid-block crossings on blocks over 300' long</td>
<td>4 to 9' pedestrian bulb-out at corners, mid-block crossings on blocks over 300' long</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Streetscape</td>
<td>see streetscape design standards</td>
<td>see streetscape design standards</td>
<td>see streetscape design standards</td>
<td>see streetscape design standards</td>
<td>see streetscape design standards</td>
<td>see streetscape design standards</td>
<td>see streetscape design standards</td>
<td>see streetscape design standards</td>
</tr>
<tr>
<td>Note:</td>
<td>Trail: Trail can be placed inside or outside UTA right-of-way as easement permits, as per site plan approval. Parking: Angled or perpendicular parking allowed with additional landscaping.</td>
<td>Sidewalk may be eliminated from one side of the street only as special exception if no pedestrian access to building exists on the street, and if determined acceptable through site development review.</td>
<td>Walkway may be eliminated from one side of the street only as special exception if no pedestrian access to building exists on the street, and if determined acceptable through site development review.</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
</tbody>
</table>
1. Principal North-South

Includes:
Main St.

<table>
<thead>
<tr>
<th>Thoroughfare Type</th>
<th>Principal, Commercial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right-of-Way Width</td>
<td>90’ to 110’</td>
</tr>
<tr>
<td>Private Setback Width</td>
<td>0’ to 10’ each side</td>
</tr>
<tr>
<td>Pavement Width</td>
<td>51’ (face of curb to face of curb)</td>
</tr>
<tr>
<td>Movement</td>
<td>slow</td>
</tr>
<tr>
<td>Design Speed</td>
<td>20 mph</td>
</tr>
<tr>
<td>Pedestrian Crossing Time</td>
<td>15 seconds (3.3 ft per second)</td>
</tr>
<tr>
<td>Traffic Lanes</td>
<td>2 travel lanes – 15’ each</td>
</tr>
<tr>
<td></td>
<td>1 center turn lane – 11’</td>
</tr>
<tr>
<td>Parking Lanes</td>
<td>2 marked parallel parking lanes – 9’ each (including gutters)</td>
</tr>
<tr>
<td>Curb and Gutter</td>
<td>2 curb/gutters – 2.5’ each</td>
</tr>
<tr>
<td></td>
<td>20’ curb radius</td>
</tr>
<tr>
<td>Public Frontage Type</td>
<td>Commercial/Storefront</td>
</tr>
<tr>
<td>Walkway</td>
<td>2 sidewalks – min. 10’ each</td>
</tr>
<tr>
<td>Landscape</td>
<td>5.5’ concrete park strip (including curb) with 5’x5’ tree wells or planters</td>
</tr>
<tr>
<td></td>
<td>tree spacing – 30’ to 50’ on center</td>
</tr>
<tr>
<td></td>
<td>planter spacing – 30’ to 50’ on center</td>
</tr>
<tr>
<td>Traffic calming</td>
<td>4’ to 9’ pedestrian bulb-out at corners, mid-block crossings on blocks over 300’ long</td>
</tr>
<tr>
<td>Streetscape</td>
<td>see streetscape design standards</td>
</tr>
</tbody>
</table>
2. Principal East-West

Includes:
Fireclay Ave.

<table>
<thead>
<tr>
<th>Thoroughfare Type</th>
<th>Principal, Commercial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right-of-Way Width</td>
<td>79' to 99'</td>
</tr>
<tr>
<td>Private Setback Width</td>
<td>0' to 10' each side</td>
</tr>
<tr>
<td>Pavement Width</td>
<td>40' (face of curb to face of curb)</td>
</tr>
<tr>
<td>Movement</td>
<td>slow</td>
</tr>
<tr>
<td>Design Speed</td>
<td>20 mph</td>
</tr>
<tr>
<td>Pedestrian Crossing Time</td>
<td>12 seconds (3.3 ft per second)</td>
</tr>
<tr>
<td>Traffic Lanes</td>
<td>2 travel lanes – 15' each</td>
</tr>
<tr>
<td>Parking Lanes</td>
<td>2 marked parallel parking lanes – 9' each (including gutters)</td>
</tr>
<tr>
<td>Curb and Gutter</td>
<td>2 curb/gutters – 2.5' each 15' curb radius</td>
</tr>
<tr>
<td>Public Frontage Type</td>
<td>Commercial/Storefront</td>
</tr>
<tr>
<td>Walkway</td>
<td>2 sidewalks – 10' min. each</td>
</tr>
<tr>
<td>Landscape</td>
<td>5.5' concrete park strip (including curb) with 5'x5' tree wells or planters tree spacing – 30' to 50' on center planter spacing – 30' to 50' on center</td>
</tr>
<tr>
<td>Traffic calming</td>
<td>4' to 9' pedestrian bulb-out at corners, mid-block crossings on blocks over 300' long</td>
</tr>
<tr>
<td>Streetscape</td>
<td>see streetscape design standards</td>
</tr>
</tbody>
</table>
3. Promenade

Includes:
Birkhill Blvd.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Thoroughfare Type</td>
<td>Residential / Commercial</td>
</tr>
<tr>
<td>Public Right-of-Way Width</td>
<td>66' to 85</td>
</tr>
<tr>
<td>Private Setback Width</td>
<td>9' each side from back of sidewalk</td>
</tr>
<tr>
<td>Pavement Width</td>
<td>62' (face of curb to face of curb, excluding median)</td>
</tr>
<tr>
<td>Movement</td>
<td>Slow</td>
</tr>
<tr>
<td>Design Speed</td>
<td>20 mph</td>
</tr>
<tr>
<td>Pedestrian Crossing Time</td>
<td>19 seconds including median break</td>
</tr>
<tr>
<td>Traffic Lanes</td>
<td>2 travel lanes – 16' each</td>
</tr>
<tr>
<td>Parking Lanes</td>
<td>2 marked parallel parking lanes – 9' each (including gutters)</td>
</tr>
<tr>
<td>Curb and Gutter</td>
<td>2 curb/gutters – 2.5' each</td>
</tr>
<tr>
<td></td>
<td>10' curb radius</td>
</tr>
<tr>
<td>Public Frontage Type</td>
<td>Residential, Commercial</td>
</tr>
<tr>
<td>Walkway</td>
<td>2 sidewalks – 6' min. each</td>
</tr>
<tr>
<td>Landscape</td>
<td>5.5' concrete park strip (including curb) with 5'x5' tree wells or planters</td>
</tr>
<tr>
<td></td>
<td>tree spacing – 30' to 50' on center</td>
</tr>
<tr>
<td></td>
<td>planter spacing – 30' to 50' on center</td>
</tr>
<tr>
<td></td>
<td>11' (including curb) planted median w/ trees</td>
</tr>
<tr>
<td>Traffic calming</td>
<td>4' to 9' pedestrian bulb-out at corners, mid-block crossings on blocks over 300' long</td>
</tr>
<tr>
<td>Streetscape</td>
<td>see streetscape design standards</td>
</tr>
</tbody>
</table>
### 4. Secondary Street - Rail Adjacent

**Includes:**
- Strathmill Way

<table>
<thead>
<tr>
<th><strong>Thoroughfare Type</strong></th>
<th><strong>Secondary</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Right-of-Way Width</strong></td>
<td>59’</td>
</tr>
<tr>
<td><strong>Private Setback Width</strong></td>
<td>5’ min. from back of sidewalk</td>
</tr>
<tr>
<td><strong>Pavement Width</strong></td>
<td>33’ (face of curb to face of curb)</td>
</tr>
<tr>
<td><strong>Movement</strong></td>
<td>Slow</td>
</tr>
<tr>
<td><strong>Design Speed</strong></td>
<td>20 mph</td>
</tr>
<tr>
<td><strong>Pedestrian Crossing Time</strong></td>
<td>10 seconds (3.3 ft per second)</td>
</tr>
<tr>
<td><strong>Traffic Lanes</strong></td>
<td>2 travel lanes – 11’ each</td>
</tr>
<tr>
<td><strong>Parking Lanes</strong></td>
<td>1 marked parallel parking lane – 9’ (including gutter)</td>
</tr>
<tr>
<td><strong>Curb and Gutter</strong></td>
<td>2 curb/gutters – 2.5’ each 10’ curb radius</td>
</tr>
<tr>
<td><strong>Public Frontage Type</strong></td>
<td>Residential, rail line</td>
</tr>
<tr>
<td><strong>Walkway</strong></td>
<td>Rail side – 10’ trail  Building side – 6’ sidewalk</td>
</tr>
<tr>
<td><strong>Landscape</strong></td>
<td>Rail side – 10.5’ park strip with trees*  Building side – 9.5’ park strip with trees*  *including curbs</td>
</tr>
<tr>
<td><strong>Traffic calming</strong></td>
<td>4’ to 9’ pedestrian bulb-out at corners, mid-block crossings on blocks over 300’ long</td>
</tr>
<tr>
<td><strong>Streetscape</strong></td>
<td>see streetscape design standards</td>
</tr>
<tr>
<td><strong>Notes:</strong></td>
<td>Trail: Trail can be placed inside or outside UTA right-of-way as easement permits, and as per site plan approval.  Parking: Angled or perpendicular parking allowed with additional landscaping</td>
</tr>
</tbody>
</table>
### 5. Residential Street

**Includes:**
- Hermitage Avenue
- Dalmore Avenue

<table>
<thead>
<tr>
<th><strong>Thoroughfare Type</strong></th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Right-of-Way Width</strong></td>
<td></td>
</tr>
<tr>
<td>Option A (preferred)</td>
<td>57'</td>
</tr>
<tr>
<td>Option B (subject to City approval)</td>
<td>49'</td>
</tr>
<tr>
<td><strong>Private Setback Width</strong></td>
<td>4' min. from back of sidewalk</td>
</tr>
<tr>
<td><strong>Pavement Width</strong></td>
<td>26' (face of curb to face of curb)</td>
</tr>
<tr>
<td><strong>Movement</strong></td>
<td>Slow</td>
</tr>
<tr>
<td><strong>Design Speed</strong></td>
<td>15 mph</td>
</tr>
<tr>
<td><strong>Pedestrian Crossing Time</strong></td>
<td>8 seconds (3.3 ft per second)</td>
</tr>
<tr>
<td><strong>Traffic Lanes</strong></td>
<td>2 travel lanes – 11’ each</td>
</tr>
<tr>
<td><strong>Parking Lanes</strong></td>
<td>None, but on-street parking permitted</td>
</tr>
<tr>
<td><strong>Curb and Gutter</strong></td>
<td>2 curb/gutters – 2.5’ each</td>
</tr>
<tr>
<td></td>
<td>10’ curb radius</td>
</tr>
<tr>
<td><strong>Public Frontage Type</strong></td>
<td>Residential</td>
</tr>
<tr>
<td><strong>Walkway</strong></td>
<td>6’ sidewalk</td>
</tr>
<tr>
<td><strong>Landscape</strong></td>
<td></td>
</tr>
<tr>
<td>Option A (preferred)</td>
<td>9.5’ park strip w/trees, adjacent to street*</td>
</tr>
<tr>
<td>Option B (subject to City approval)</td>
<td>5.5’ park strip w/trees, adjacent to street*</td>
</tr>
<tr>
<td>and 4’ private landscaped building setback*</td>
<td></td>
</tr>
<tr>
<td>*including curbs</td>
<td></td>
</tr>
<tr>
<td><strong>Traffic calming</strong></td>
<td>none</td>
</tr>
<tr>
<td><strong>Streetscape</strong></td>
<td>see streetscape design standards</td>
</tr>
</tbody>
</table>
6. Underpass/Overpass

Includes:
Central Ave./4115 South under commuter rail
Fireclay Ave./4250 South under commuter rail
200 West over 4500 South

<table>
<thead>
<tr>
<th>Thoroughfare Type</th>
<th>Underpass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right-of-Way Width</td>
<td>47'</td>
</tr>
<tr>
<td>Private Setback Width</td>
<td>none</td>
</tr>
<tr>
<td>Pavement Width</td>
<td>26' (face of curb to face of curb)</td>
</tr>
<tr>
<td>Movement</td>
<td>slow</td>
</tr>
<tr>
<td>Design Speed</td>
<td>20 mph</td>
</tr>
<tr>
<td>Pedestrian Crossing Time</td>
<td>8 seconds (3.3 ft per second)</td>
</tr>
<tr>
<td>Traffic Lanes</td>
<td>2 travel lanes – 11’ each</td>
</tr>
<tr>
<td>Parking Lanes</td>
<td>none</td>
</tr>
<tr>
<td>Curb and Gutter</td>
<td>2 curb/gutters – 2.5’ each 10’ curb radius</td>
</tr>
<tr>
<td>Public Frontage Type</td>
<td>building side frontage</td>
</tr>
<tr>
<td>Walkway</td>
<td>2 sidewalks – 10.5’ each (including curb)</td>
</tr>
<tr>
<td>Landscape</td>
<td>none</td>
</tr>
<tr>
<td>Traffic calming</td>
<td>4’ to 9’ pedestrian bulb-outs at corners</td>
</tr>
<tr>
<td>Streetscape</td>
<td>see streetscape design standards</td>
</tr>
</tbody>
</table>
### 7. Alley

**Includes:**
- Hillswick Lane
- Dornack Lane
- Duntnine Lane
- Kirkwall Way

<table>
<thead>
<tr>
<th>Thoroughfare Type</th>
<th>Alley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right-of-Way Width</td>
<td>22'</td>
</tr>
<tr>
<td>Private Setback Width</td>
<td>5' min. from back of curb</td>
</tr>
<tr>
<td>Pavement Width</td>
<td>22' (back of curb to back of curb)</td>
</tr>
<tr>
<td>Movement</td>
<td>Very Slow</td>
</tr>
<tr>
<td>Design Speed</td>
<td>5 mph</td>
</tr>
<tr>
<td>Pedestrian Crossing Time</td>
<td>5 seconds (3.3 ft per second)</td>
</tr>
<tr>
<td>Traffic Lanes</td>
<td>2 travel lanes – 9' each</td>
</tr>
<tr>
<td>Parking Lanes</td>
<td>none</td>
</tr>
<tr>
<td>Curb and Gutter</td>
<td>2 rolling curbs – 2' each 10' curb radius</td>
</tr>
<tr>
<td>Public Frontage Type</td>
<td>service, garage, access</td>
</tr>
<tr>
<td>Walkway</td>
<td>none</td>
</tr>
<tr>
<td>Landscape</td>
<td>none</td>
</tr>
<tr>
<td>Traffic calming</td>
<td>none</td>
</tr>
<tr>
<td>Streetscape</td>
<td>none</td>
</tr>
<tr>
<td>Notes:</td>
<td>Allow parallel or perpendicular parking as approved by City.</td>
</tr>
</tbody>
</table>
# A. Pedestrian Trail

**Includes:**
- Not designated

<table>
<thead>
<tr>
<th>Trail Type</th>
<th>Circulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corridor Width</td>
<td>20’</td>
</tr>
<tr>
<td>Path Width</td>
<td>10’</td>
</tr>
<tr>
<td>Walking surface</td>
<td>concrete</td>
</tr>
<tr>
<td>Uses</td>
<td>walking, strollers</td>
</tr>
<tr>
<td>Landscape</td>
<td>5’ min. park strip each side</td>
</tr>
<tr>
<td>Drainage</td>
<td>Drain to park strip</td>
</tr>
</tbody>
</table>

**Note:**
B. Creekside Trail

Includes:
Not designated

<table>
<thead>
<tr>
<th>Trail Type</th>
<th>Recreation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corridor Width</td>
<td>20'</td>
</tr>
<tr>
<td>Path Width</td>
<td>10'</td>
</tr>
<tr>
<td>Walking surface</td>
<td>asphalt</td>
</tr>
<tr>
<td>Uses</td>
<td>walking, biking, recreation</td>
</tr>
<tr>
<td>Landscape</td>
<td>5' min. park strip each side</td>
</tr>
<tr>
<td>Drainage</td>
<td>swale to natural areas</td>
</tr>
</tbody>
</table>

Note:
### C. Railside Trail

**Includes:**
- Not designated

<table>
<thead>
<tr>
<th>Trail Type</th>
<th>Circulation and Recreation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corridor Width</td>
<td>20’</td>
</tr>
<tr>
<td>Path Width</td>
<td>10’</td>
</tr>
<tr>
<td>Walking surface</td>
<td>asphalt</td>
</tr>
<tr>
<td>Uses</td>
<td>walking, biking, recreation</td>
</tr>
<tr>
<td>Landscape</td>
<td>15’ rail buffer</td>
</tr>
<tr>
<td>Drainage</td>
<td>drain buffer area</td>
</tr>
</tbody>
</table>

**Note:**
- Trail may be located within UTA corridor, or road right-of-way, depending on easements granted.
## D. Pedestrian Paseo

**Includes:**
- Not designated

<table>
<thead>
<tr>
<th>Trail Type</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corridor Width</td>
<td>20'</td>
</tr>
<tr>
<td>Path Width</td>
<td>10'</td>
</tr>
<tr>
<td>Walking surface</td>
<td>concrete</td>
</tr>
<tr>
<td>Uses</td>
<td>walking, access, deliveries</td>
</tr>
<tr>
<td>Landscape</td>
<td>5' min. park strip each side</td>
</tr>
<tr>
<td>Drainage</td>
<td>drain to park strip</td>
</tr>
</tbody>
</table>

**Note:** Corridor and path widths may be adjusted for paseos designed for private access, as exceptions granted through individual site plan review.