# CHAPTER 26: UNIVERSITY DISTRICT STREETSCAPE STANDARDS

- 26.01 Streetscape Categories
- 26.02 Streetscape Elements
- 26.03 Streetscape Details
- 26.04 Streetscape Product Information

### 26.01 STREETSCAPE CATEGORIES

#### A. LEVEL 1 - COMMERCIAL AREAS

Highest level of improvements designed to create a distinctive image for the University District.

### **B. LEVEL 2 – TRANSITION AREAS**

Mid-level improvements applied to mixed commercial, university and residential areas that continue the distinctive University District image.

## C. LEVEL 3 - NEIGHBORHOOD AREAS

Improvements similar to typical residential neighborhood standards with the addition of University District details.

### D. SPECIALTY AREAS / ELEMENTS

- 1. Gateways
- 2. Pedestrian Plaza (Wright Street)
- 3. Off-Street Bike Route
- 4. Boneyard Creek Corridor
- 5. Adjacent Parking Screening
- 6. Easement Acquisition (where right-of-way space is limited)
- 7. University District Identification and Directional Signage
- 8. University District Street Name Signs
- 9. Projections within the Public Right-of-Way (Awnings and Marquees)
- 10. Streetscape Repairs

### 26.02 STREETSCAPE ELEMENTS

### A. LEVEL 1 - COMMERCIAL AREAS

- 1. Paving and Curbs
  - a. Integrally colored, scored concrete with shotblast finish.
  - b. Brick unit pavers at intersections with concrete underlayment.
  - c. Entire right-of-way to be paved surface. Paving extends from back of curb to building face (if building face is within 5' of right-of-way).
  - d. 10' preferred primary clear walkway, 6' minimum (refer to ADA guidelines for additional requirements).
  - e. Painted "ladder" style crosswalks (without parallel lines) per University District Crosswalk Guidelines
  - f. Cast-in-place planter curb for all raised planter locations.
  - g. Double planter curb applied where necessary to achieve recommended sidewalk slopes.
- 2. Lighting and Traffic Signals
  - a. Pedestrian Lights: University District standard, with approximate spacing of 70' o.c. alternate.
  - b. Combination Vehicular / Pedestrian Light Assembly Type A & B: University District standard, spaced every other light, one side of the street.
  - c. Combination Traffic Signal / Vehicular Light: University District standard w/ standard stand alone crossing button, countdown pedestrian signal indication, clock with accessible pedestrian signals (APS) auditory announcement, and illuminated street name signs.

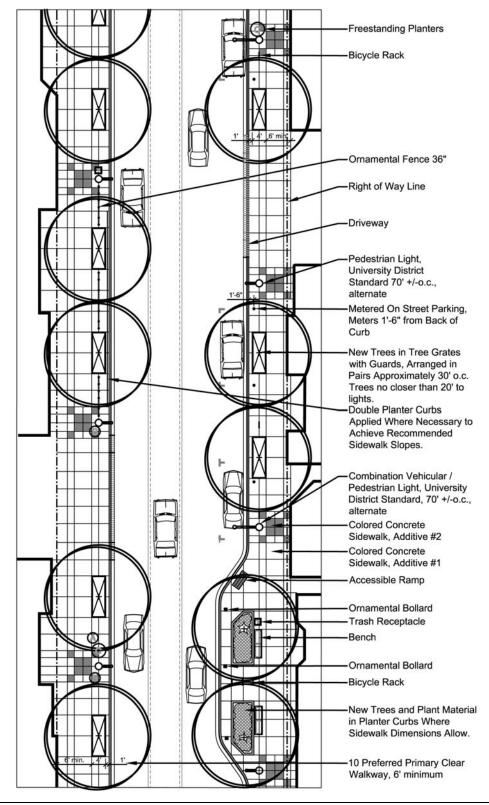
Note: Spacing and requirements listed are approximate. Submit photometric calculations in conformance with Manual of Practice Chapter 13: Right-of-way Light Design and Construction Standards.

- 3. Street Furnishings
  - a. Ornamental Fence 36": Placed from light pole to light pole, alternate sides of the street where high level of pedestrian traffic warrants. Also can be used on a case-by-case basis for outdoor seating areas and where pedestrian and vehicular traffic warrants.
  - b. Ornamental Fence 12": At all raised planter locations.
  - c. Bench: Located at intersections and mid-block locations placement should not obstruct pedestrian traffic flow. Minimum 4 per block face, 4 per intersection.

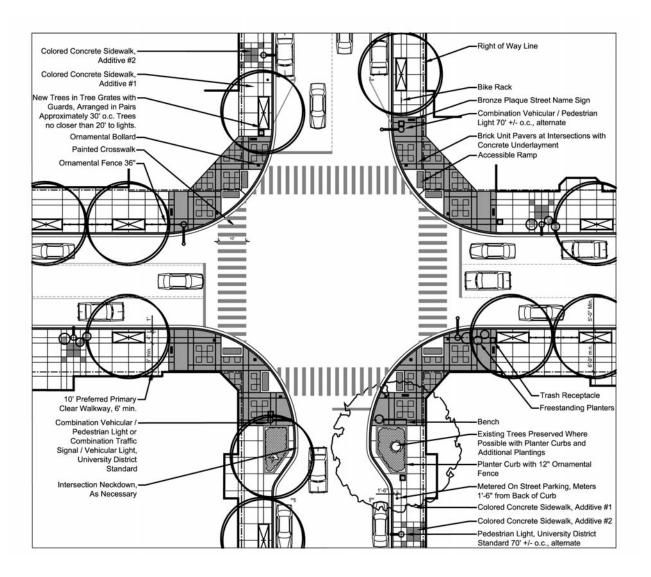
- d. Trash Receptacle: Located at intersections and mid-block locations placement should not obstruct pedestrian traffic flow. Minimum 2 per block face, 2 per intersection.
- e. Bike Rack: Use only when 36" Ornamental Fence is not used. Number and placement varies based on adjacent use, 6 per block face minimum.
- f. Ornamental Bollard: Placed at intersection locations to define accessible ramp and depressed curb areas.
- g. Freestanding Planters: Size and number varies. Place at intersections and limited mid-block locations arranged near light poles.
- 4. Signage and Specialties
  - a. Signage Regulatory: Locate per City of Champaign Manual of Practice Chapter 12, Traffic Control and Regulatory Signage.
  - b. Signage Street Name: Internally Illuminated located on traffic signal poles where possible. Locate per City of Champaign Manual of Practice Chapter 12, Traffic Control and Regulatory Signage, where traffic signals do not exist.
  - c. Bronze Plaque Street Name: Place perpendicular to back-of-curb at each intersection.
  - d. Bronze Plaque Dedication: Provide one for each project constructed.
  - e. High Visibility Pedestrian Signs per MUTCD Standards shall be provided at intersections where warranted by high pedestrian traffic levels.
- 5. Planting
  - a. Trees: New trees arranged in pairs, 30' o.c., no closer than 20' center of tree to center of light. Preserve existing trees where possible. Average of 50' o.c. per blockface minimum. New trees placed in tree grates with tree guards or raised planters with 12" ornamental fence. Refer to Manual of Practice Chapter 24: Right-of-Way Street Tree Standards for approved species and other requirements.
  - b. Plant Materials: Submit per Article X: Landscaping of the City of Champaign Zoning Code.
- 6. Geometry and Engineering
  - a. Specific roadway geometry and engineering related to curb radii, neckdowns, lane widths, drainage and other similar items to be determined based on specific project criteria. Refer to relevant Manual of Practice Chapters for additional information.

# A. LEVEL 1 – COMMERCIAL AREAS

Level 1 Prototypical Street Plan



### Level 1 Prototypical Intersection Plan



# B. LEVEL 2 – TRANSITION AREAS

- 1. Paving and Curbs
  - a. Integrally colored, scored concrete with broom finish.
  - b. Extend pavement from back of curb to building face (if within 5') where necessary, depending on level of pedestrian traffic.
  - c. 8' preferred primary clear walkway, 6' minimum (refer to ADA guidelines for additional requirements). Use flexible paving or establish appropriate easement if existing trees or other obstructions prohibit providing a 6' minimum primary clear walkway.
  - h. Painted "ladder" style crosswalks (without parallel lines) per University District Crosswalk Guidelines
  - d. Cast-in-place Concrete Planter Curb for all raised planter locations.
  - i. Double planter curb and integral planter curb applied where necessary to achieve recommended sidewalk slopes.
- 2. Lighting and Traffic Signals
  - a. Pedestrian Lights: University District standard, with approximate spacing of 70' o.c. alternate.
  - b. Combination Vehicular / Pedestrian Light Assembly Type A & B: University District standard, spaced every other light, one side of the street.
  - c. Combination Traffic Signal / Vehicular Light: University District standard w/ standard stand alone crossing button, countdown pedestrian signal indication, clock with accessible pedestrian signals (APS) auditory announcement, and illuminated street name signs.

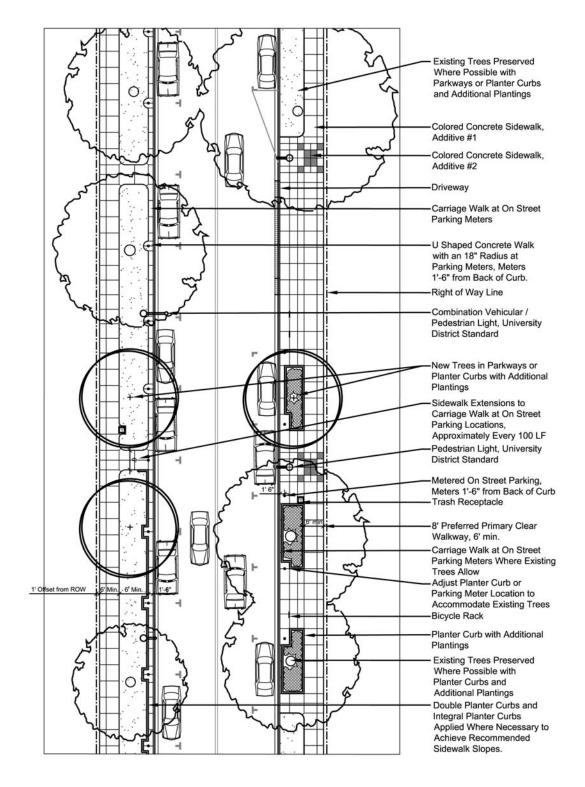
Note: Spacing and requirements listed are approximate. Submit photometric calculations in conformance with Manual of Practice Chapter 13: Right-of-way Light Design and Construction Standards.

- 3. Street Furnishings
  - a. Bench: Located at intersections and mid-block locations placement should not obstruct pedestrian traffic flow. Minimum 2 per block face, 4 per intersection.
  - Trash Receptacle: Located at intersections and mid-block locations placement should not obstruct pedestrian traffic flow. Minimum 1 per block face, 2 per intersection.
  - c. Bike Rack: Number and placement varies based on adjacent use, 4 per block face minimum.
  - d. Ornamental Bollard: Placed at intersection locations to define accessible ramp and depressed curb areas.

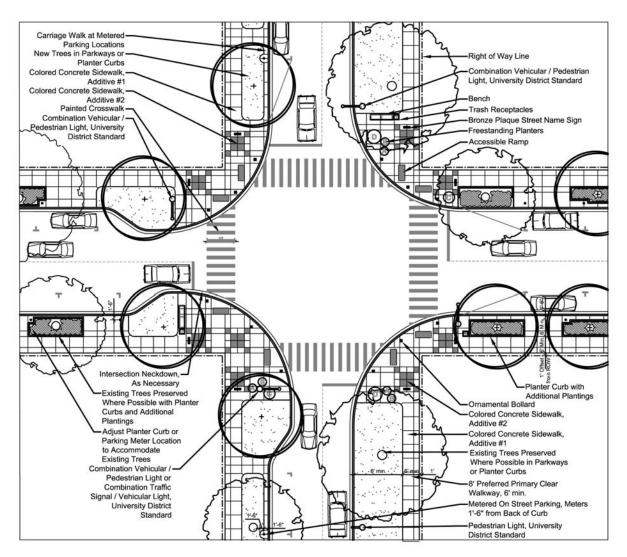
- e. Freestanding Planters: Size and number varies. Place at intersections and limited mid-block locations arranged near light poles in groups of 3.
- 4. Signage and Specialties
  - a. Signage Regulatory: Locate per City of Champaign Manual of Practice Chapter 12, Traffic Control and Regulatory Signage.
  - b. Signage Street Name: Internally Illuminated located on traffic signal poles where possible. Locate per City of Champaign Manual of Practice Chapter 12, Traffic Control and Regulatory Signage, where traffic signals do not exist.
  - c. Bronze Plaque Street Name: Place perpendicular to back-of-curb at each intersection.
  - d. High Visibility Pedestrian Signs per MUTCD Standards shall be provided at intersections where warranted by high pedestrian traffic levels.
- 5. Planting
  - Trees: Preserve existing trees where possible. Add new trees to achieve an average spacing of 50' o.c. per blockface minimum. Trees in raised planters. Refer to Manual of Practice Chapter 24: Right-of-Way Street Tree Standards for approved species and other requirements.
  - b. Plant Materials: Submit per Article X: Landscaping of the City of Champaign Zoning Code.
- 6. Geometry and Engineering
  - a. Specific roadway geometry and engineering related to curb radii, neckdowns, lane widths, drainage and other similar items to be determined based on specific project criteria. Refer to relevant Manual of Practice Chapters for additional information.

## B. LEVEL 2 – TRANSITION AREAS

#### Level 2 Prototypical Street Plan



### Level 2 Prototypical Intersection Plan



# C. LEVEL 3 - NEIGHBORHOOD AREAS

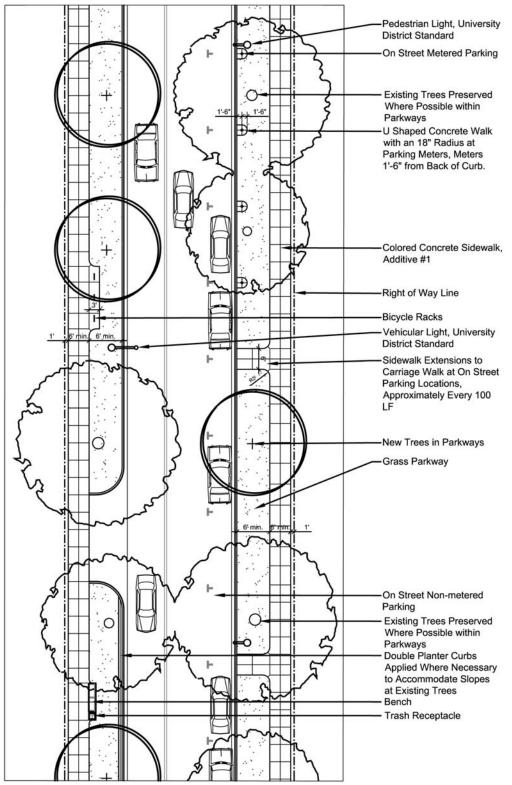
- 1. Paving and Curbs
  - a. Integrally colored, scored concrete with broom finish.
  - b. 6' minimum sidewalk width.
  - j. Painted "ladder" style crosswalks (without parallel lines) per University District Crosswalk Guidelines
- 2. Lighting and Traffic Signals
  - k. Pedestrian Light: University District standard, spaced 150' o.c. max. equally between vehicular lights.
  - I. Vehicular Light: University District standard, placed at intersections and midblock if over 400' block length.

Note: Spacing and requirements listed are approximate. Submit photometric calculations in conformance with Manual of Practice Chapter 13: Right-of-way Light Design and Construction Standards.

- 3. Street Furnishings
  - a. Bench: Located on a case-by-case basis placement should not obstruct pedestrian traffic flow.
  - b. Trash Receptacle: Located on a case-by-case basis placement should not obstruct pedestrian traffic flow.
  - c. Bike Rack: Located on a case-by-case basis placement should not obstruct pedestrian traffic flow.
- 4. Signage and Specialties
  - a. Signage Regulatory: Locate per City of Champaign Manual of Practice Chapter 12, Traffic Control and Regulatory Signage.
  - b. Signage Street Name: Internally Illuminated located on traffic signal poles where possible. Locate per City of Champaign Manual of Practice Chapter 12, Traffic Control and Regulatory Signage, where traffic signals do not exist.
  - c. High Visibility Pedestrian Signs per MUTCD Standards shall be provided at intersections where warranted by high pedestrian traffic levels.
- 5. Planting
  - a. Trees: Preserve existing trees where possible. Add new trees to achieve an average spacing of 50' o.c. per blockface minimum. Refer to Manual of Practice Chapter 24: Right-of-Way Street Tree Standards for approved species and other requirements.
  - b. Plant Materials: Submit per Article X: Landscaping of the City of Champaign Zoning Code.

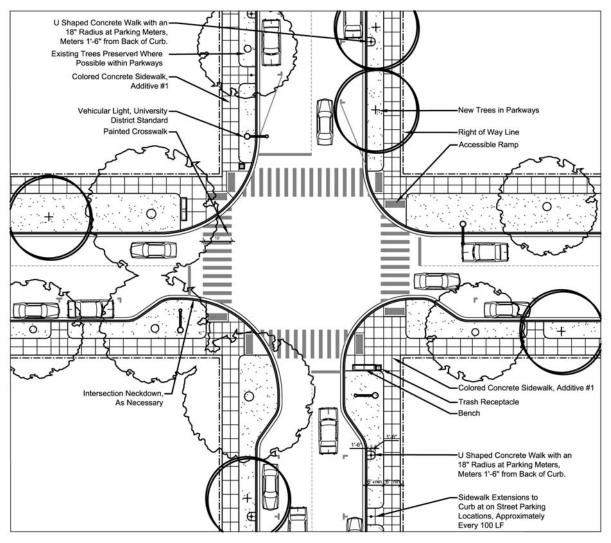
- 6. Geometry and Engineering
  - a. Specific roadway geometry and engineering related to curb radii, neckdowns, lane widths, drainage and other similar items to be determined based on specific project criteria. Refer to relevant Manual of Practice Chapters for additional information.

# C. LEVEL 3 – NEIGHBORHOOD AREAS



Level 3 Prototypical Street Plan

#### Level 3 Prototypical Intersection Plan



# D. SPECIALTY AREAS / ELEMENTS

- 1. Specialty Areas / Elements will be reviewed on a case-by-case basis and will be subject to City review and approval. Requirements as defined in other sections of the Manual of Practice will apply to Specialty Areas / Elements.
- 2. Damage to Streetscape areas to be repaired in kind. All pavement repairs shall be full slab, and sidewalk repairs shall be full square.
- 3. Any projection into the right-of-way shall maintain a minimum clearance from adjacent trees, light poles and other elements as approved by the City.

# 26.03 STREETSCAPE DETAILS

### A. CITY OF CHAMPAIGN STANDARD DETAILS

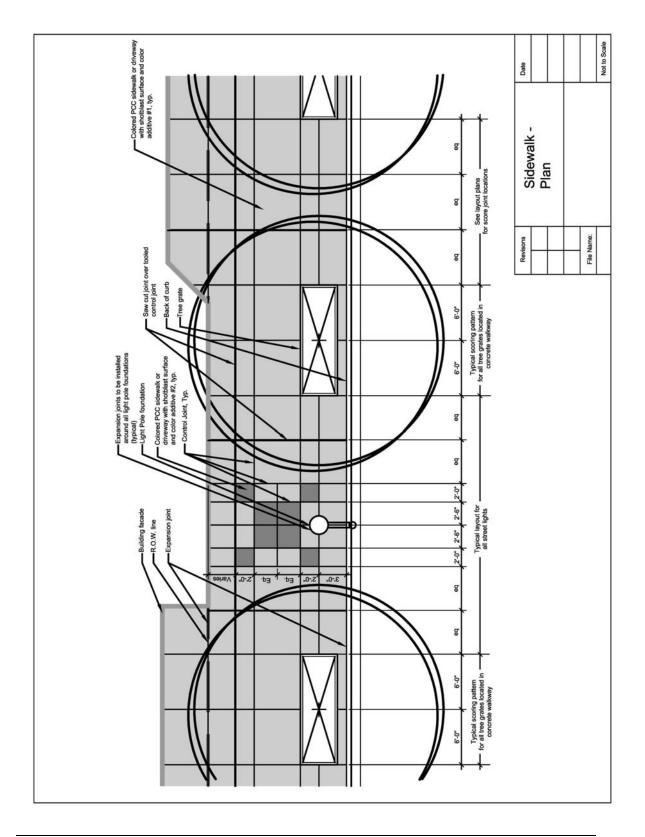
1. City of Champaign standard details as outlined in the Manual of Practice shall apply unless otherwise addressed in the University District standard details. Relevant Chapters of the Manual of Practice include:

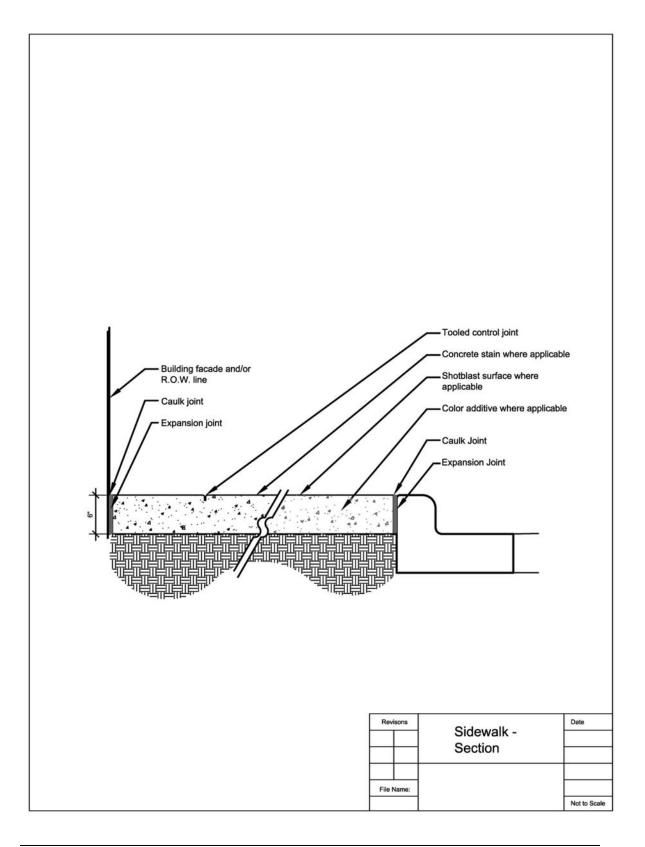
CHAPTER 10:	PAVEMENT
CHAPTER 11:	SIDEWALK
CHAPTER 12:	TRAFFIC CONTROL AND REGULATORY SIGNAGE
CHAPTER 13:	RIGHT-OF-WAY LIGHTING STANDARDS
CHAPTER 24:	RIGHT-OF-WAY STREET TREE STANDARDS

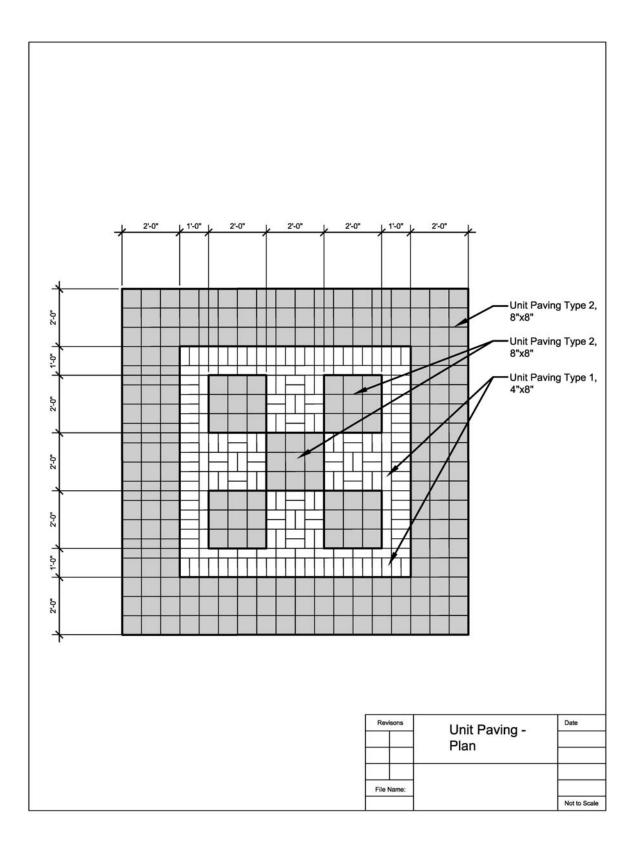
## **B. UNIVERSITY DISTRICT STANDARD DETAILS**

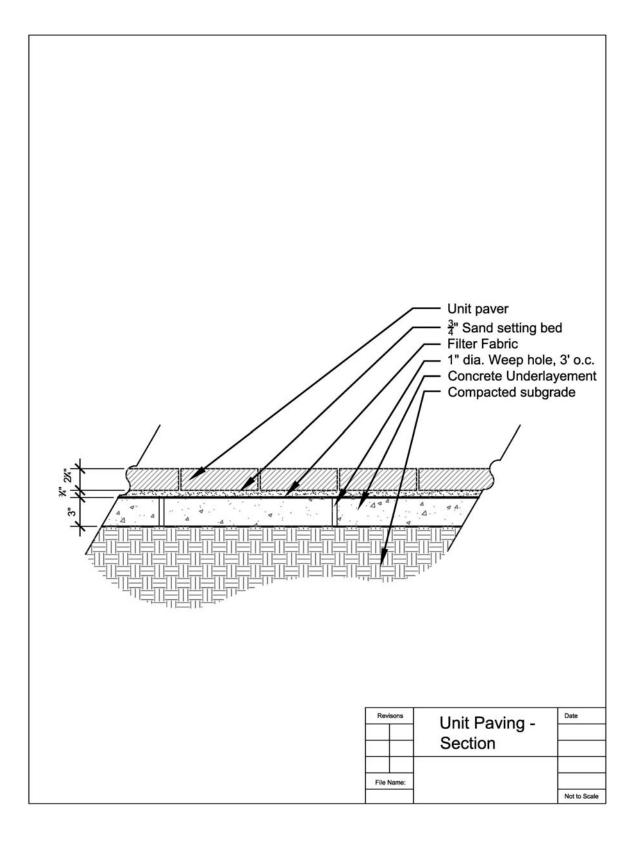
- 1. Paving and Curbs
  - a. Sidewalk Plan
  - b. Sidewalk Section
  - c. Unit Paving Plan

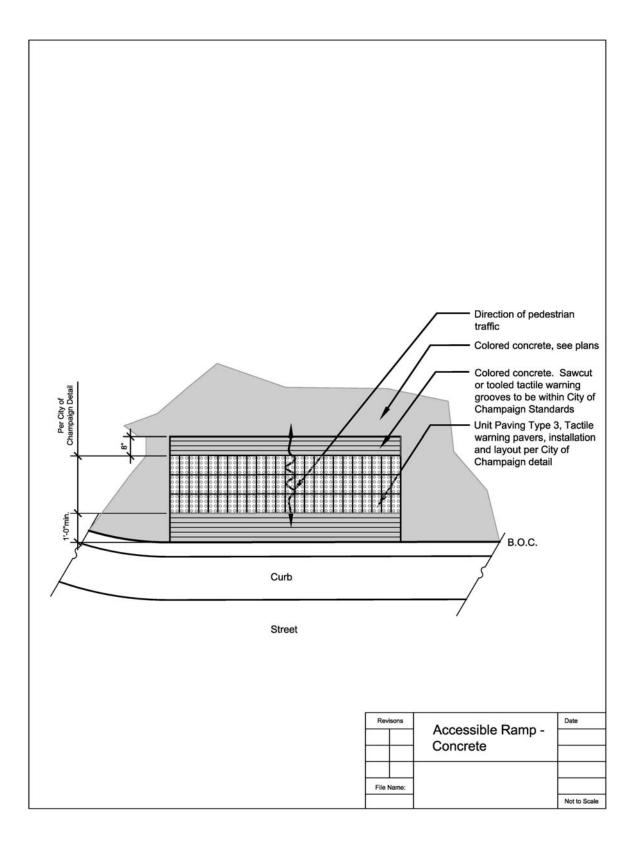
  - d. Unit Paving Sectione. Accessible Ramp Concrete
  - f. Accessible Ramp Unit Paving
  - g. On Street Parking Detail End Space Geometry
  - h. Planter Curb Cast-in-Place
  - i. Planter Curb Integral
  - Planter Curb Double j.

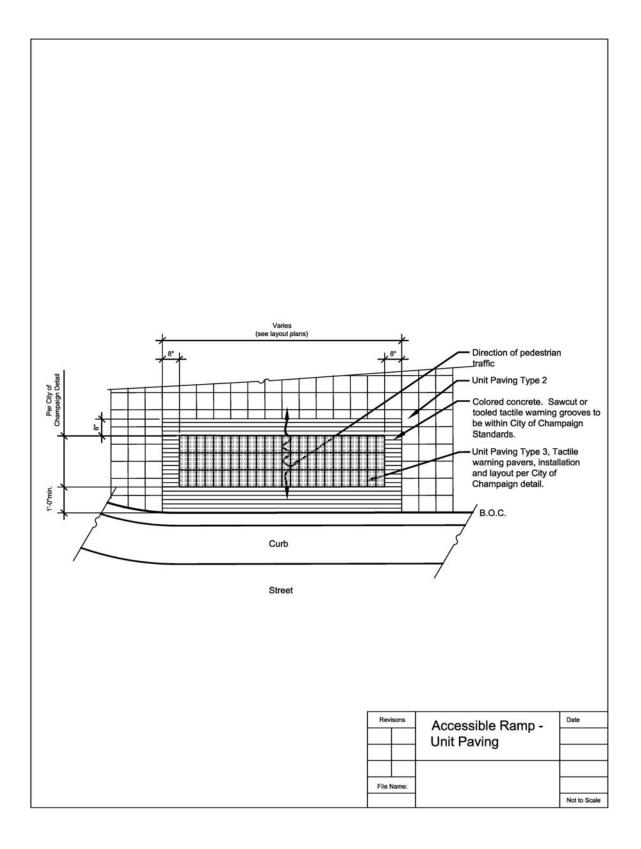


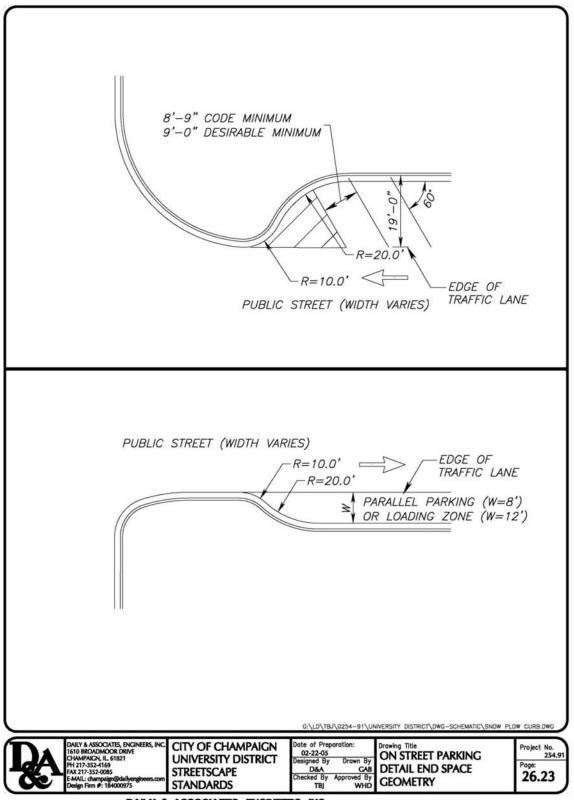




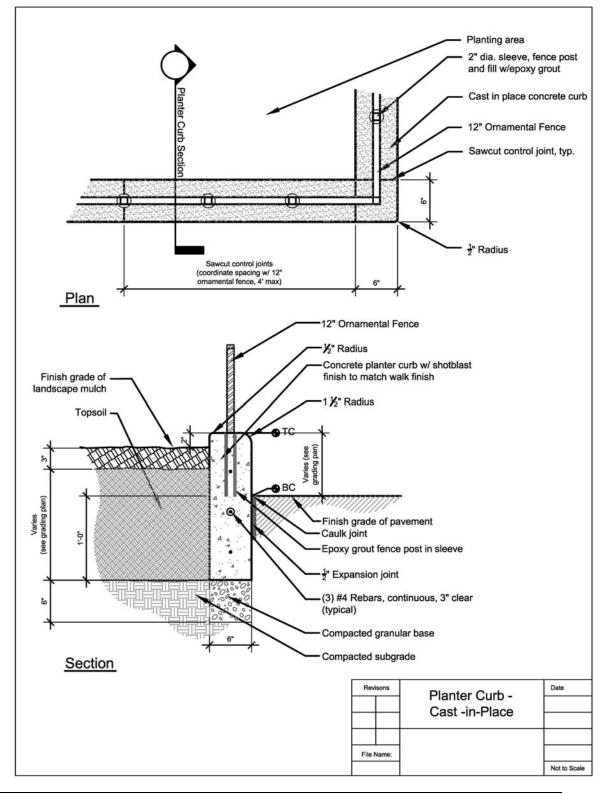


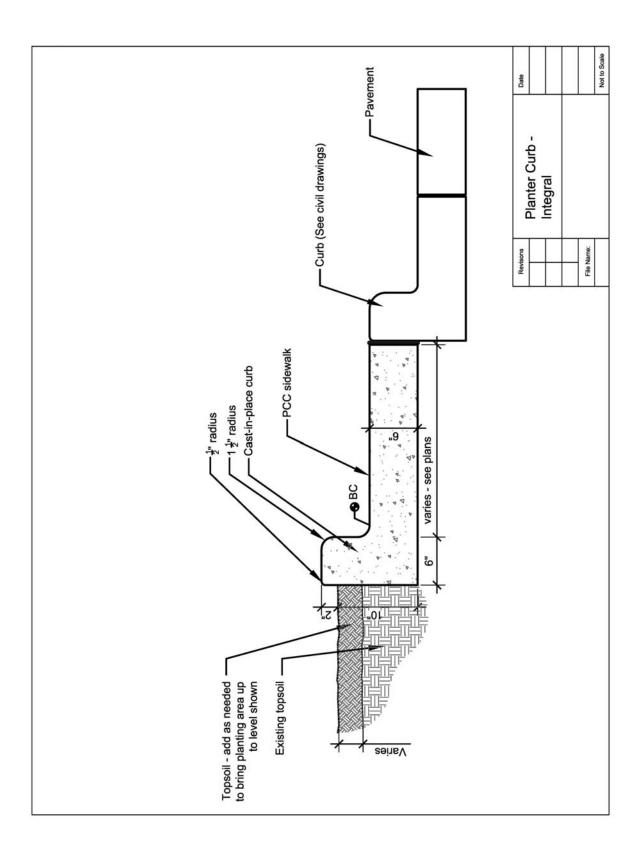


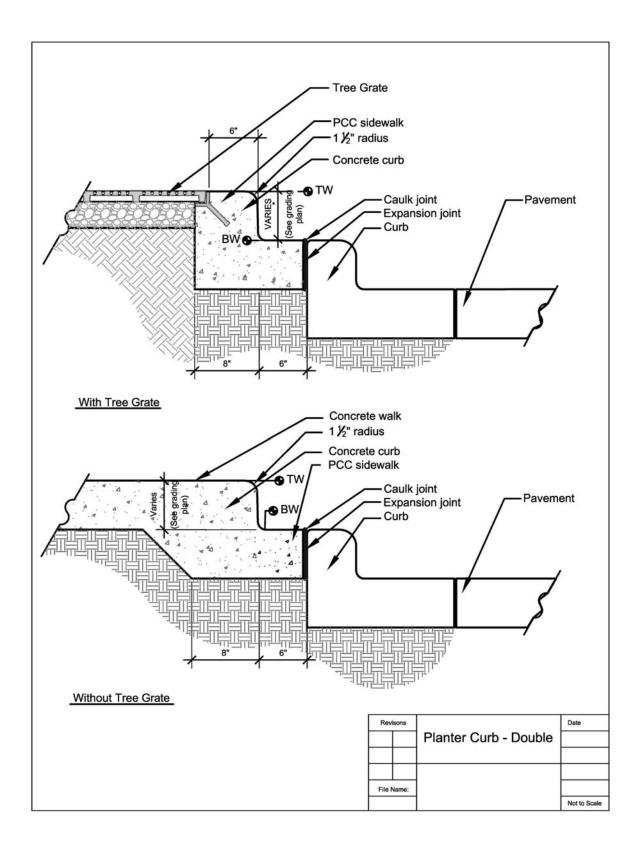




Prepared by: DAILY & ASSOCIATES, ENGINEERS, INC. CHAMPAGE & PEORIA, ILLINOIS & LOUISVILLE, KENTUCKY

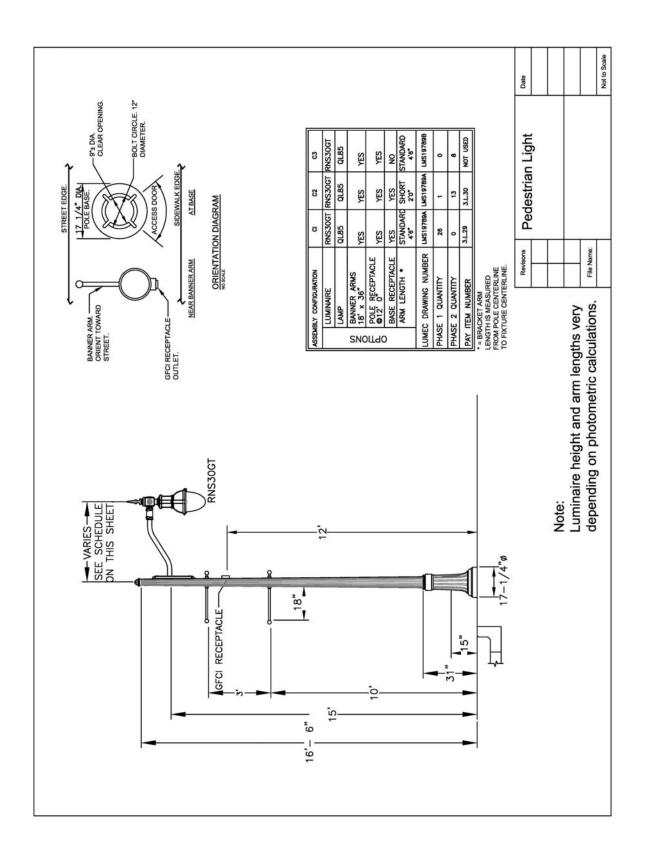


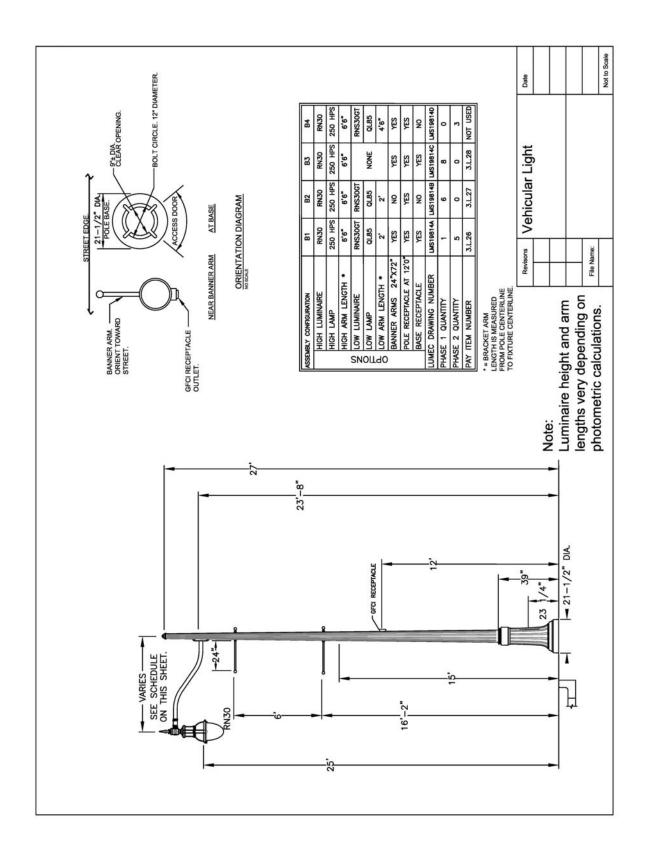




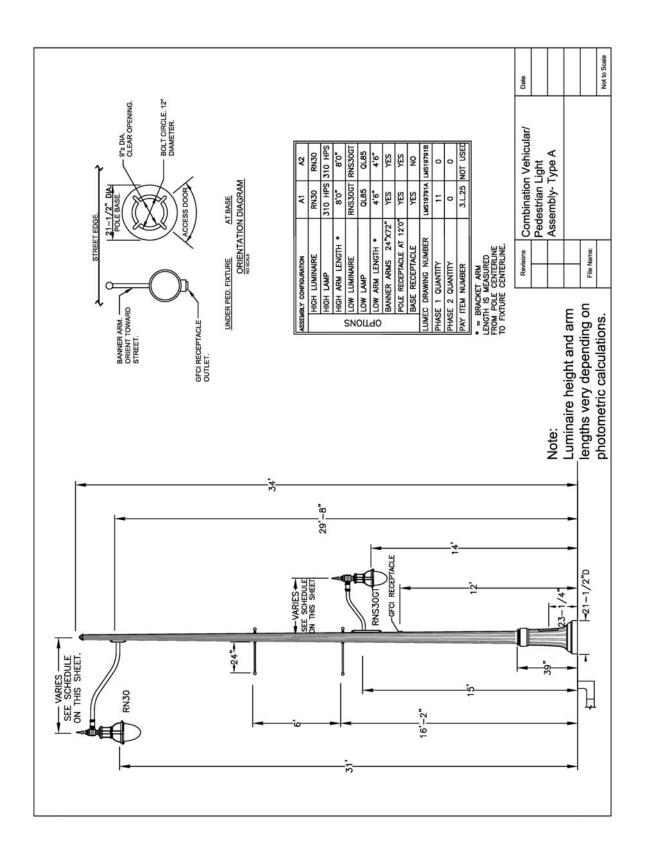
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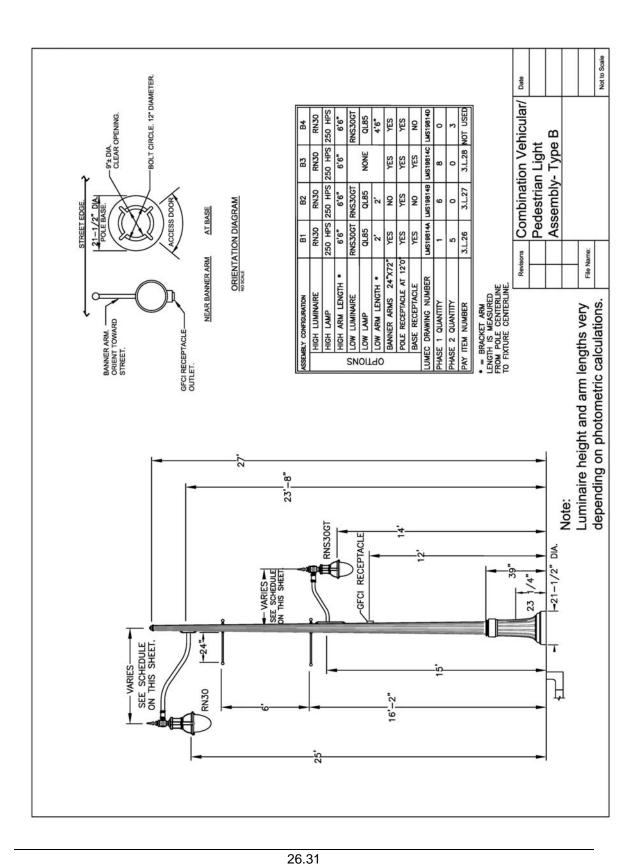
- 2. Lighting and Traffic Signals
  - a. Pedestrian Light
  - b. Vehicular Light
  - c. Combination Vehicular / Pedestrian Light Assembly Type A & B
  - d. Combination Traffic Signal / Vehicular Light

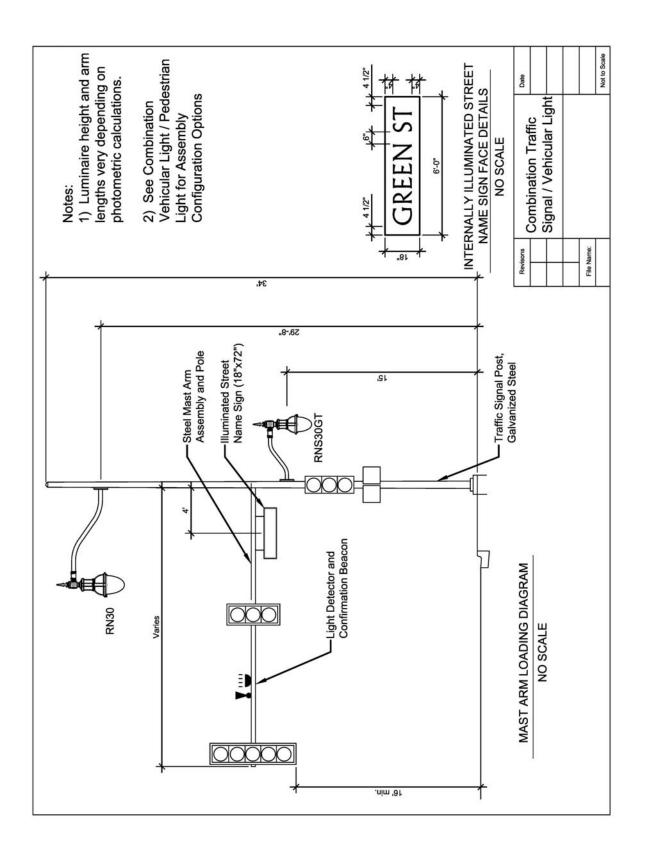




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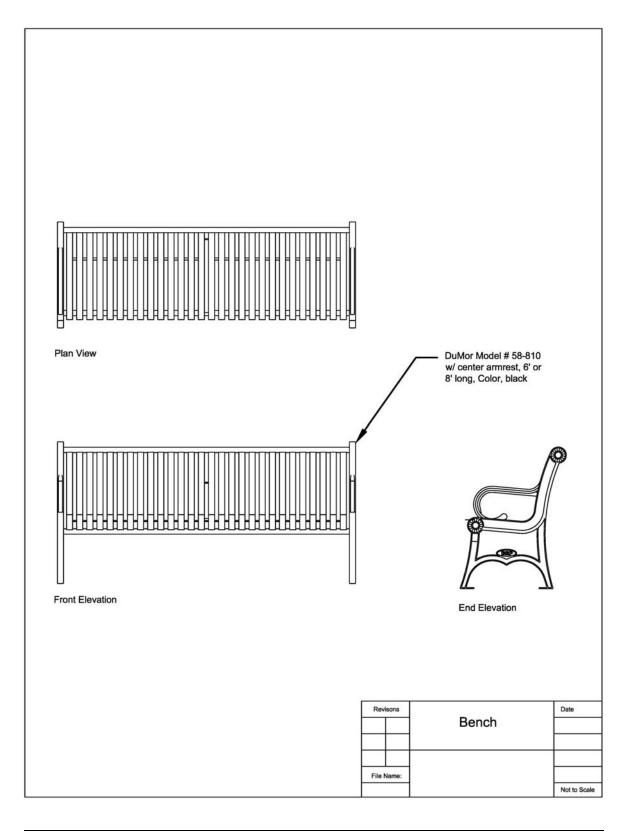


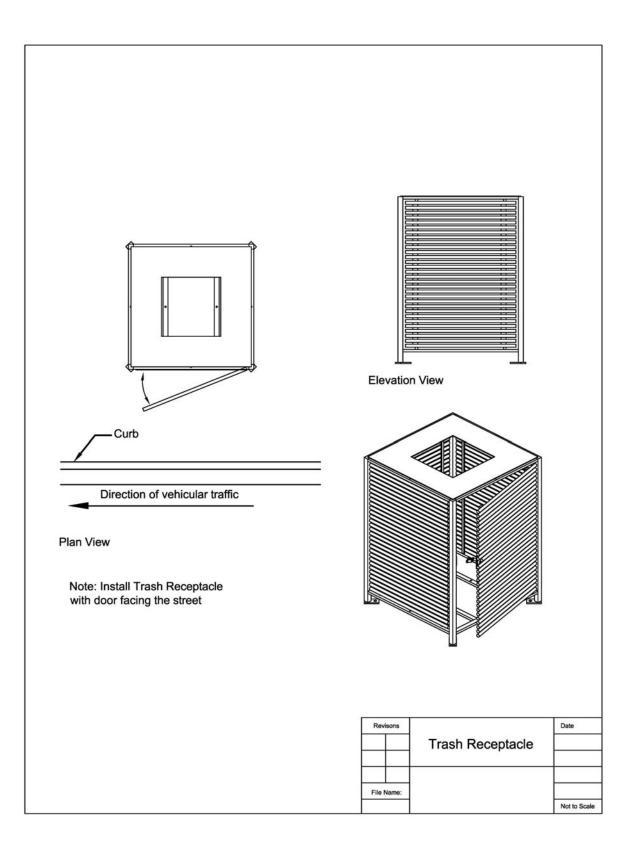


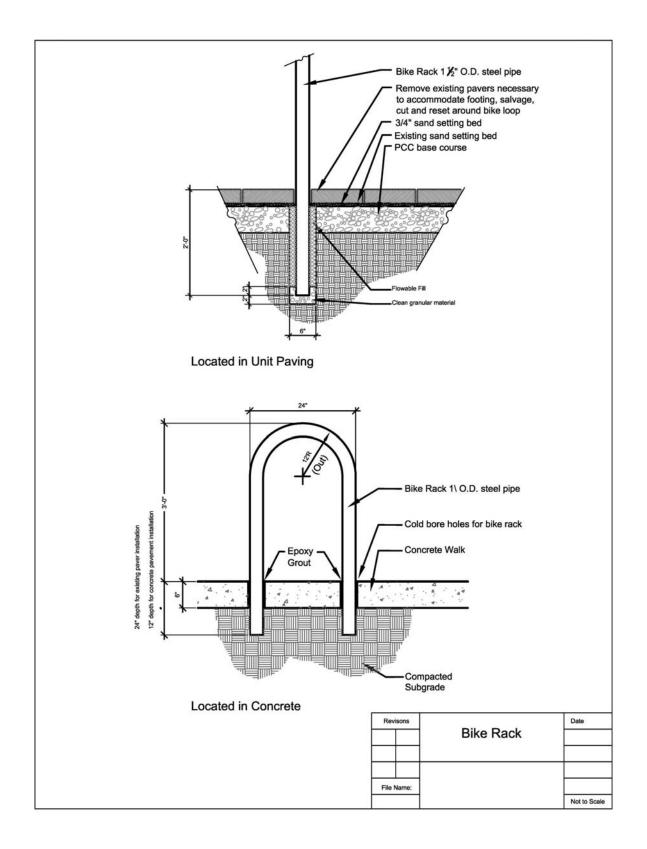


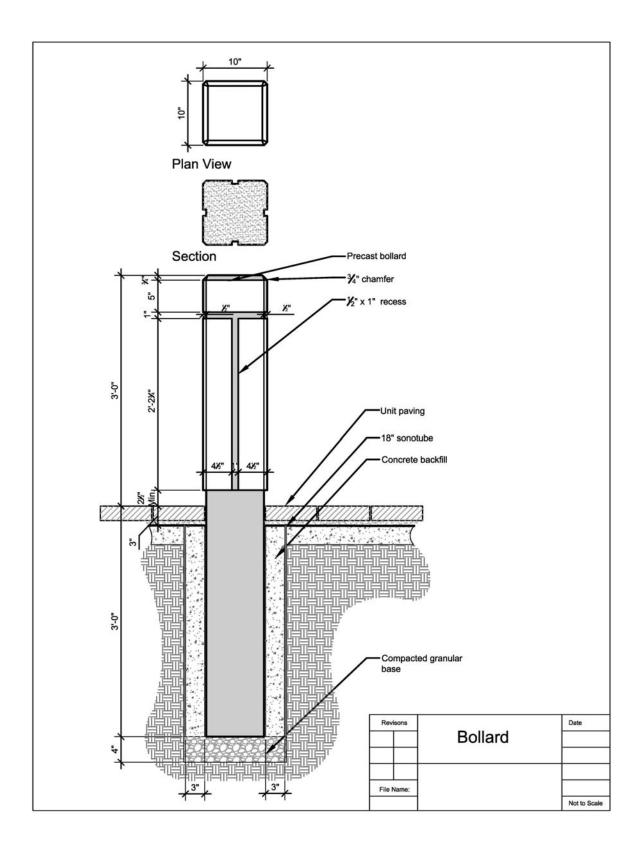
# B. UNIVERSITY DISTRICT STANDARD DETAILS (cont.)

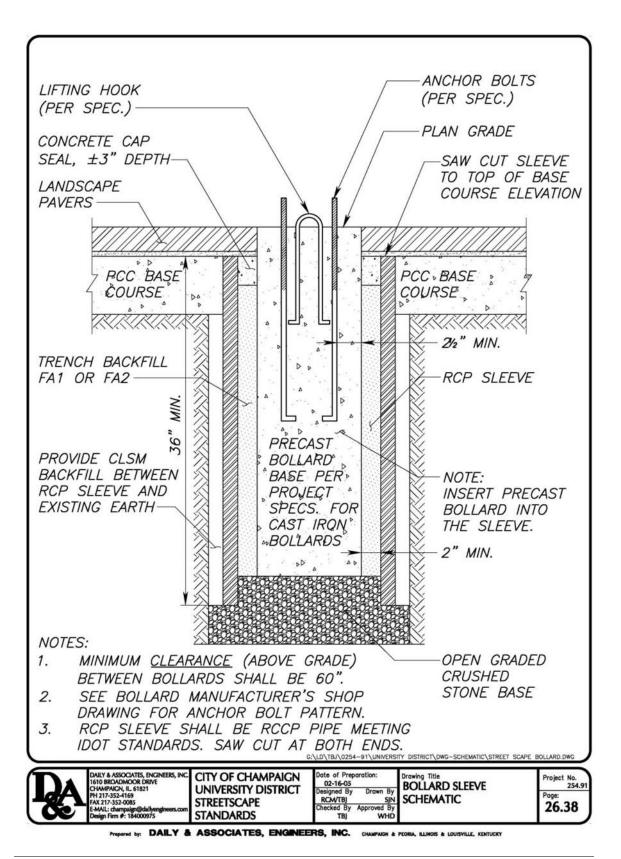
- 3. Street Furnishings
  - a. Bench
  - b. Trash Receptacle
  - c. Bike Rack
  - d. Bollard
  - e. Bollard Sleeve Schematic
  - f. Tree Grate
  - g. Ornamental Fence 12" Height
  - h. Ornamental Fence 36" Height Option 1 & Option 2
  - i. Freestanding Planter Elevationj. Freestanding Planter Section

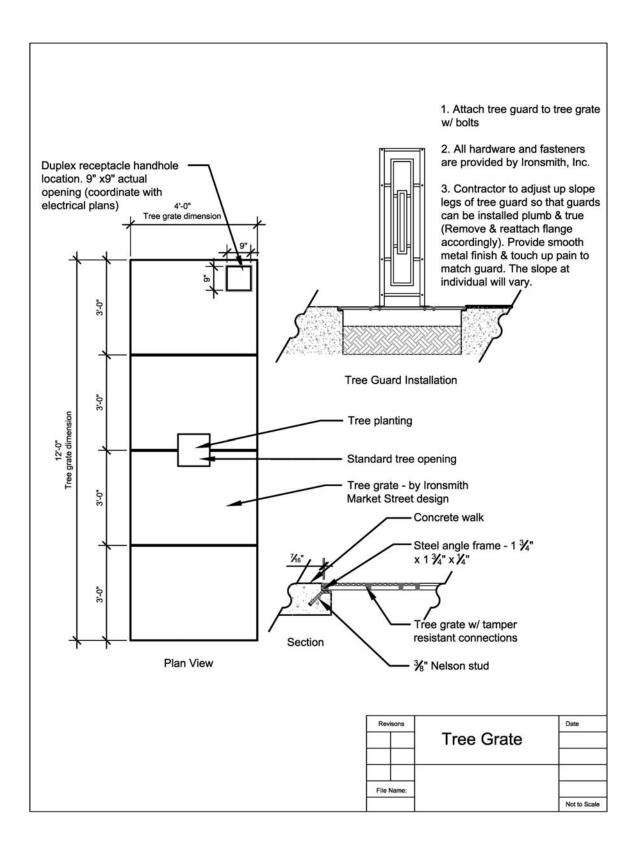


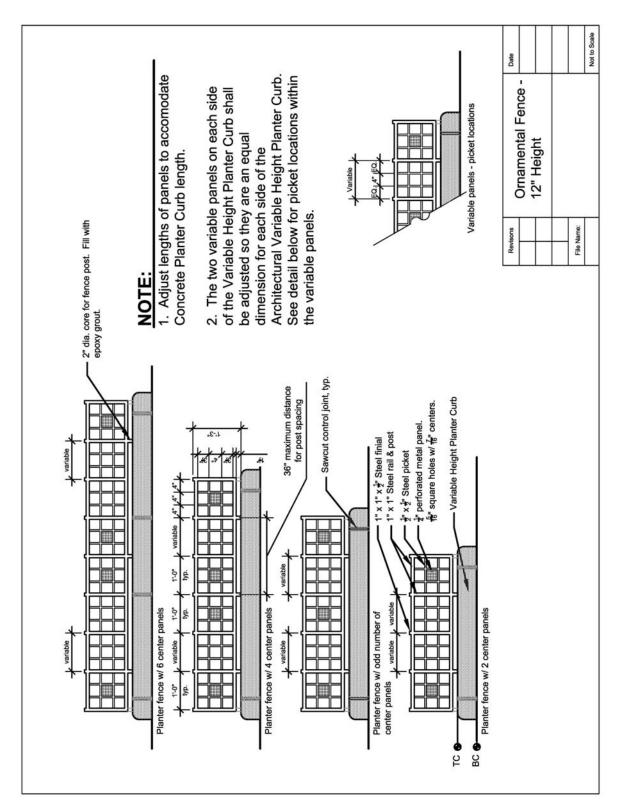




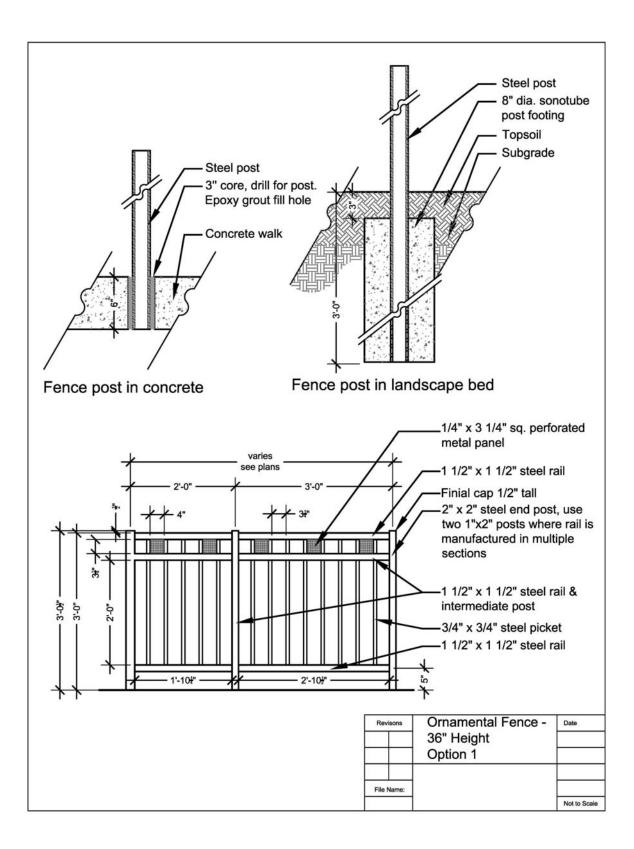


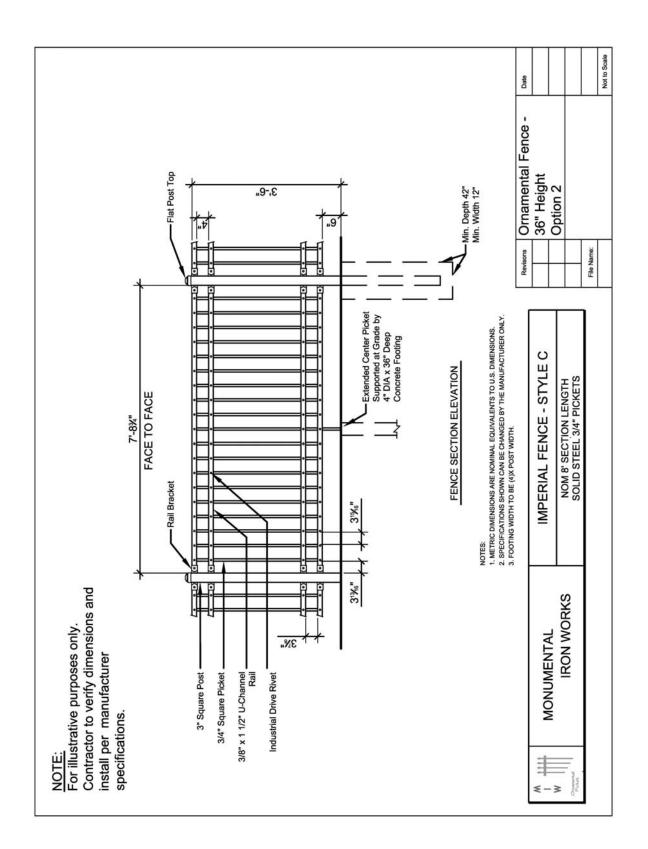




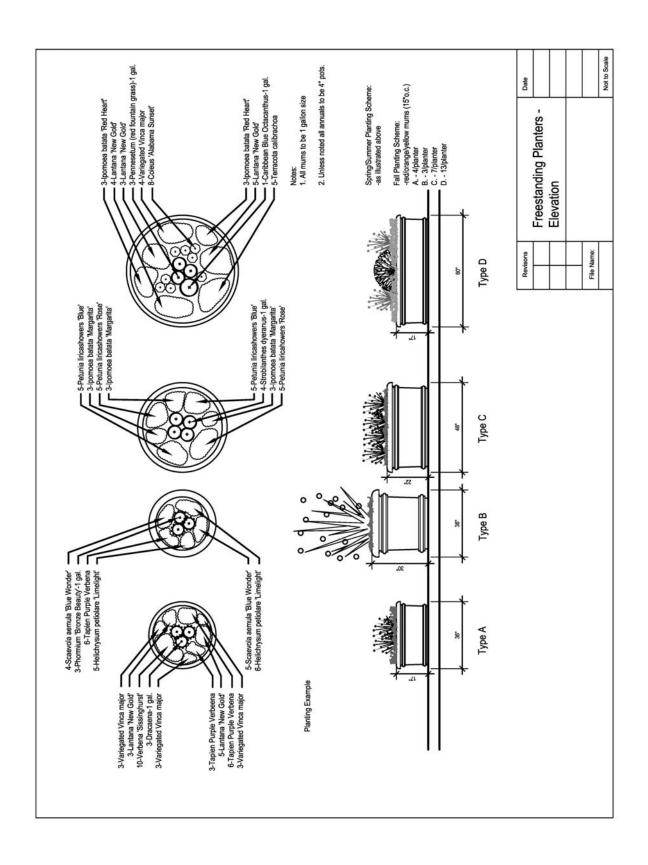


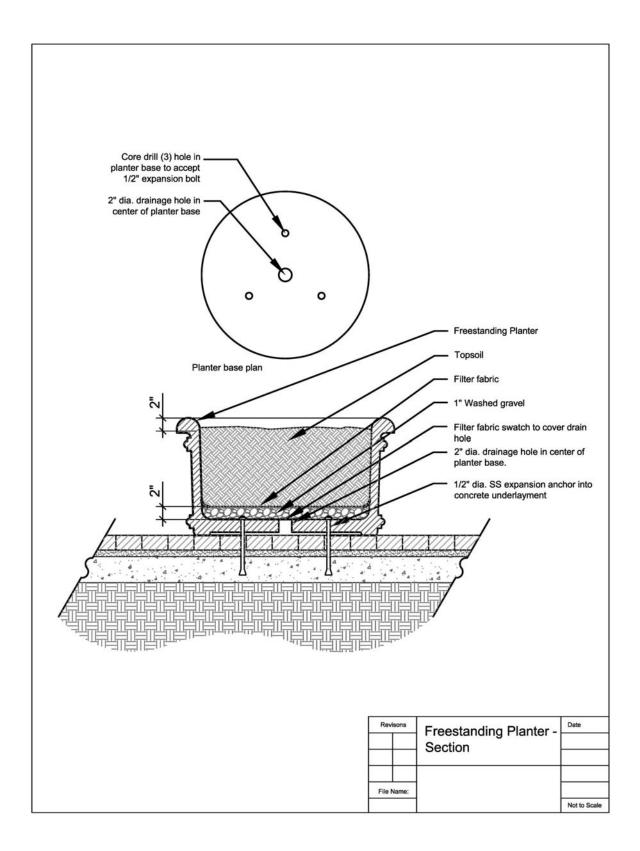
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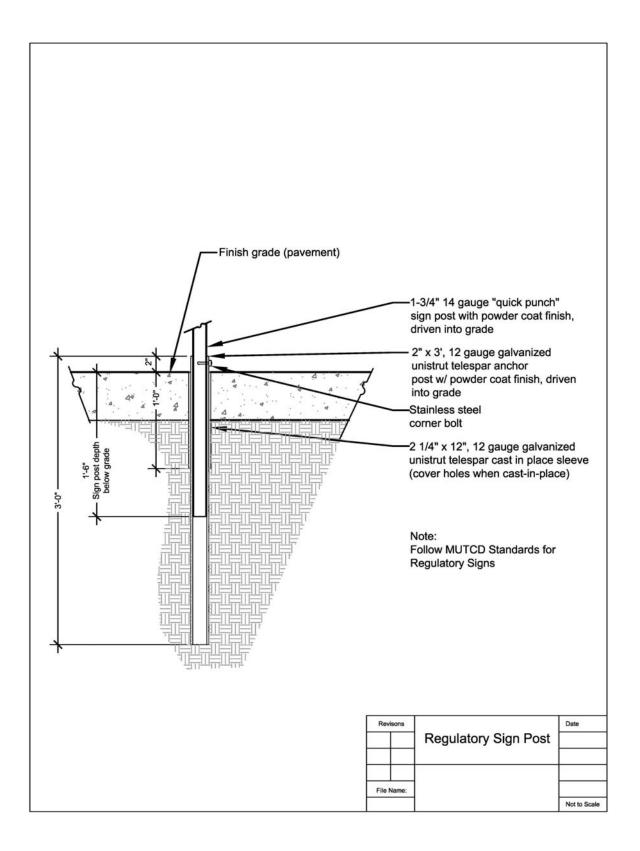
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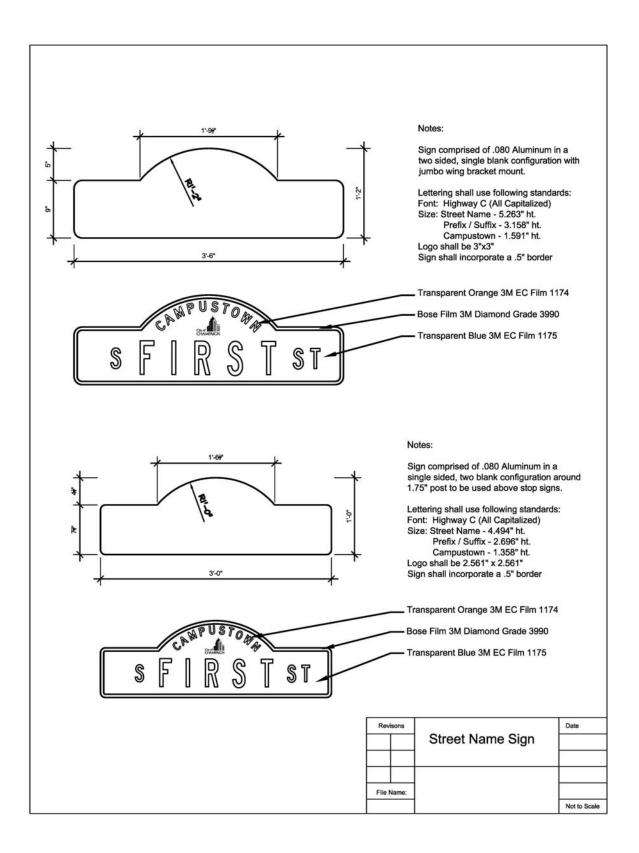




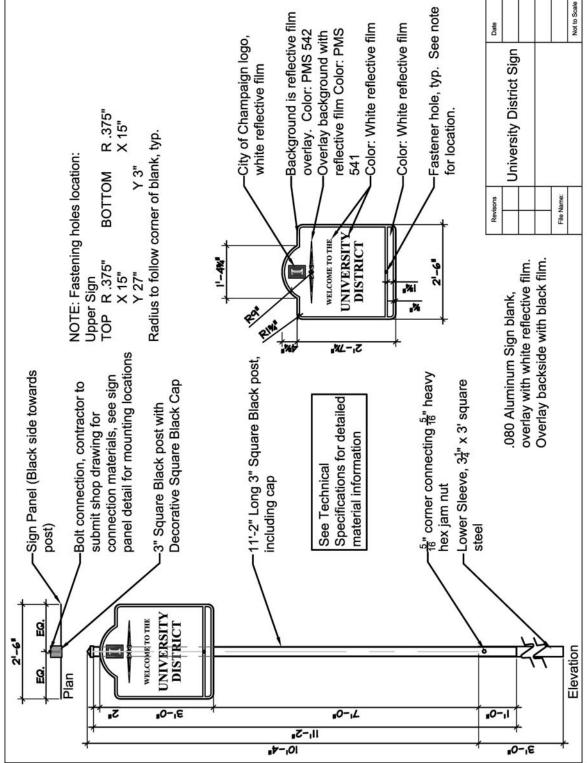
## B. UNIVERSITY DISTRICT STANDARD DETAILS (cont.)

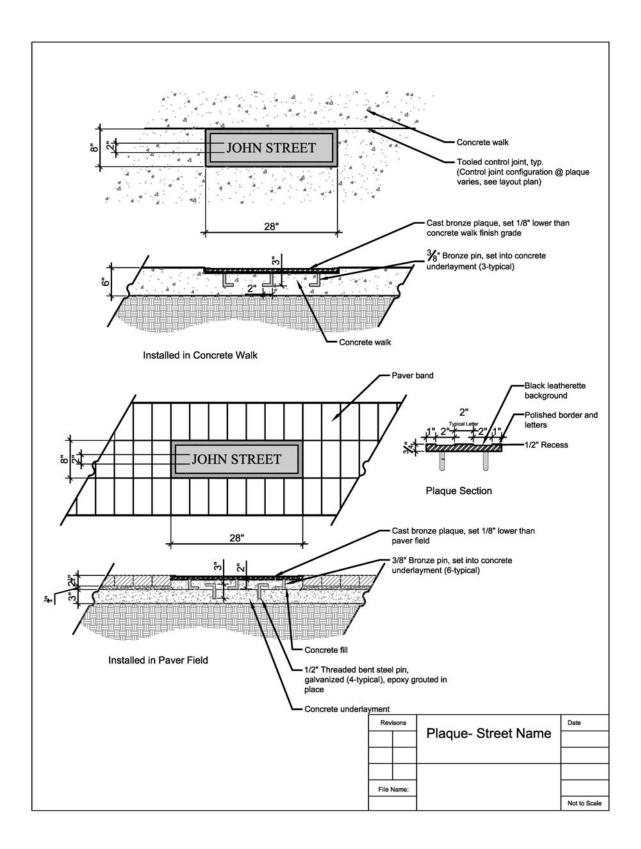
- 4. Signage and Specialties
  - a. Signage Regulatory Sign Post
  - b. Signage Street Name Sign
  - c. Signage Street Name, Internally Illuminated Sign (See Combination Traffic Signal / Vehicular Light Detail)
  - d. Signage University District Sign
  - e. Plaque Street Name
  - f. Plaque Dedication

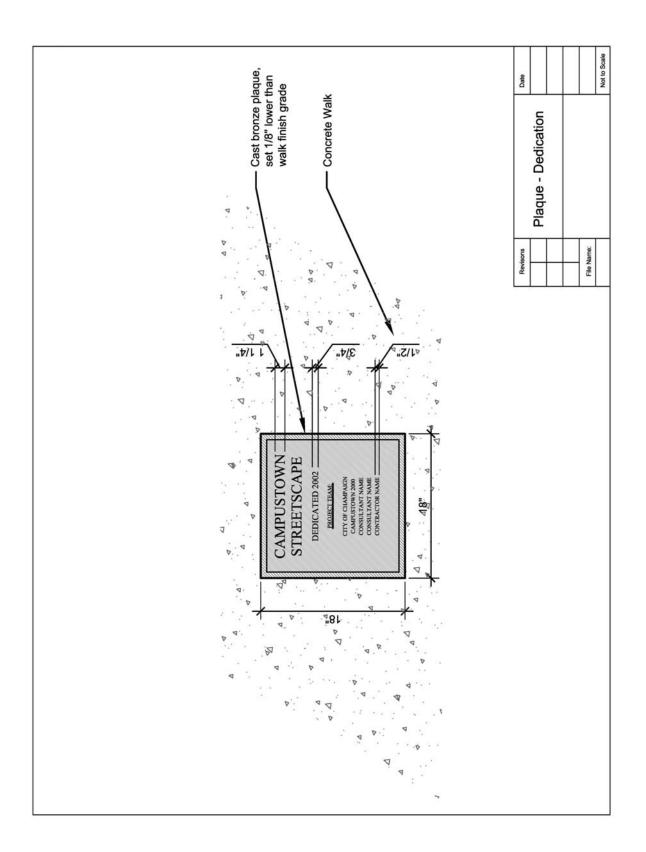




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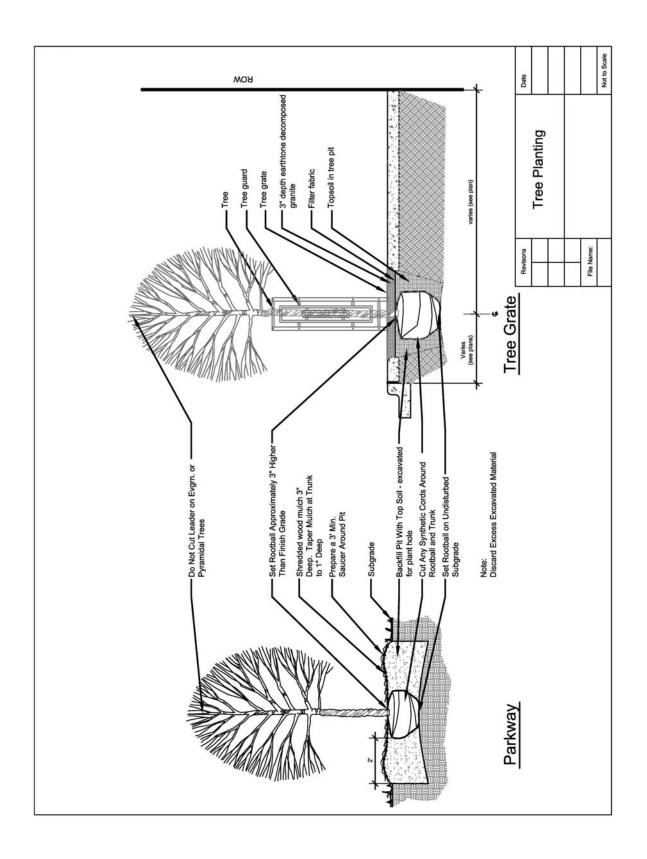






# B. UNIVERSITY DISTRICT STANDARD DETAILS (cont.)

- 5. Planting
  - a. Tree Planting Parkway and Tree Grate



### 26.04 STREETSCAPE PRODUCT INFORMATION

#### A. CITY OF CHAMPAIGN STANDARD PRODUCTS

City of Champaign standard products as outlined in the Manual of Practice shall apply unless otherwise addressed in the University District standard products. Relevant Chapters of the Manual of Practice include:

CHAPTER 10:	PAVEMENT
CHAPTER 11:	SIDEWALK
CHAPTER 12:	TRAFFIC CONTROL AND REGULATORY SIGNAGE
CHAPTER 13:	RIGHT-OF-WAY LIGHTING STANDARDS
CHAPTER 24:	RIGHT-OF-WAY STREET TREE STANDARDS

### **B. UNIVERSITY DISTRICT STANDARD PRODUCTS**

- 1. Paving and Curbs
  - a. Colored Concrete: Color additive #1 shall be manufactured by S.G.S. Solomon Colors, Springfield, IL, (800) 624-0261, or (217) 522-3112; color shall be 288 Buff-Rosemary. Install the color additive at a rate of 1-25 lbs. bag / 4 yards. Color additive #2 shall be manufactured by S.G.S. Solomon Colors, Springfield, IL, (800) 624-0261, or (217) 522-3112; color shall be 385 Brown – Bark. Install the color additive at a rate of 1-25 lbs. Bag / 1 yard.

This Specification shall be used in conjunction with Section 3.H.12. PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH (42400300) and Section 3.H.11, PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH (42300400), except as modified herein. The finish of the sidewalk shall be in accordance with Sections 423 and 424 of the Standard Specifications except it shall not have the whitewash brush finish, but shall be smooth and uniform.

b. Shotblast Surface: Commence shotblasting after 48 hours and prior to 72 hours after concrete walk has cured. The surface of the concrete walk shall be blasted to expose sand aggregates and small rock aggregates. Seal concrete after cleanup of shot blasting in accordance with Section 3.II.S.7 CONCRETE SEAL. Nozzle shall be Venturi type for architectural finishes; blasting aggregate shall be Black Beauty or similar flint or hydrocarbon non-silica aggregate.

This Specification shall be used in conjunction with Section 3.H.12. PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH (42400300) and Section 3.H.11. PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH (42300400), except as modified herein.

All PCC Driveway and PCC Sidewalk that have the colored additive shall have a shotblast finish. The sidewalk finish, prior to shotblasting, shall be in accordance with Sections 423 and 424 of the Standard Specifications, except they shall not have the whitewash brush finish. The finish and shotblasting shall apply to both the PCC Driveway and PCC Sidewalks.

- c. Concrete Seal: Cementone Clear Sealer by L.M. Scofield, (800) 800-9900. Install Concrete Seal after Shotblasting and Sidewalk Jointing work is complete. Concrete Seal shall be installed per manufacturer's direction. Install Concrete Seal on all PCC Driveway and PCC Sidewalk with color additive.
- d. Concrete Planter Curb: Portland cement concrete, 6 inch height. Materials shall be in accordance with Section 3.H.12. PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH.
- e. Concrete Underlayment: Portland cement concrete, 6 inch thickness. Materials shall be in accordance with Section 3.H.12. PORTLAND CEMENT CONCRETE SIDEWALK.
- f. Unit Paving Type 1: The unit paver shall be manufactured by Whitacre Greer, Chicago, IL (888) 728-3799, size shall be 4"x8", color to be Clear Red #30.
- g. Unit Paving Type 2: The unit paver shall be manufactured by Whitacre Greer, Chicago, IL (888) 728-3799, size shall be 8"x8", color to be Mulberry #34.
- h. Unit Paving Type 3: The unit paver shall be manufactured by Pavestone, St. Louis, MO (573) 332--8312, 2003 ADA Compliant Detectable Warning Paver, size shall be 3 7/8" x 7 13/16" x 2 3/8", color to be approved by the City Engineer.
- 2. Lighting and Traffic Signals
  - a. Pedestrian Light: University District Standard as Manufactured by Lumec, Inc. (217) 522-7267. See Details for specific information. Black powder coat finish.
  - b. Vehicular Light: University District Standard as Manufactured by Lumec, Inc. (217) 522-7267. See Details for specific information. Black powder coat finish.
  - c. Combination Vehicular / Pedestrian Light- Assembly Type A & B: University District Standard as Manufactured by Lumec, Inc. (217) 522-7267. See Details for specific information. Black powder coat finish.
  - d. Combination Traffic Signal / Vehicular Light: University District Standard. See Details for specific information. Black powder coat finish.
- 3. Street Furnishings
  - a. Ornamental Bollard: Custom fabricated pre-cast concrete per University District Standard Detail. Finish shall be an architectural finish to match Indiana limestone color and texture.
  - b. 1) 36" Ornamental Fence: Custom fabricated perforated metal panels per University District Standard Detail. All 2" and 1½" shall be solid square tube steel with 1/8" thick walls. All pre-primer and primer coats to be factory applied. All finish coats to field applied, black epoxy.

2) 36" Ornamental Fence: Imperial Fence Style C as Manufactured by Master-Halco, Baltimore Maryland (800) 229-5615 as per University District Standard Detail. Finish shall be Black polyester powder coated per manufacturers specifications.

- c. 12" Ornamental Fence: Custom fabricated perforated metal panels per University District Standard Detail. All 2" and 1½" shall be solid square tube steel with 1/8" thick walls. All pre-primer and primer coats to be factory applied. All finish coats to field applied, black epoxy.
- d. Bicycle Rack: Custom fabricated steel bike loop, per University of Illinois standard. Steel pipe outside diameter 1.90", 1 ½" schedule 40 powder coat finish, black. Anchor in place with K-3 epoxy grout by Gantrex, (800) 242-6873.
- e. Bench: Model # 58-810 w/ center armrest, 6' or 8' long, as manufactured by DuMor; available through NuToys, LaGrange IL (708) 579-9055. Color to be Black.
- f. Trash Receptacle: Papio Trash Receptacle, Flat Top, model # PA406-FT (P) as manufactured by BRP Enterprises, Inc. (888) 438-5311. Finish shall be polyester powder coat paint, black.
- g. Freestanding Planters: Mediterranean style, Type X round shape, cast stone material as manufactured by Dura Art Stone, (800) 232-0332. Color to be S-18 with an acid finish. Type A: 36"wide x 17"tall; Type B: 36" wide x 30" tall; Type C: 48" wide x 22" tall; Type D: 60" wide x 17" tall
- h. Tree Grate: Market Street model as manufactured by Ironsmith (800) 338-4766. Finish shall be natural. Grates shall be 4' wide by 12' long in four (4) sections with tamper resistant connections.
- i. Tree Guard: Model M15 as manufactured by Ironsmith (800) 338-4766. Finish shall be powder coat, color black. Attach to grate by drilling and bolting method.
- 4. Signage and Specialties
  - a. Signage Regulatory: Shall be in conformance with the City of Champaign Manual of Practice Chapter 12: Traffic Control and Regulatory Signage, except as modified herein. Posts shall have a black powder coat finish.
  - b. Signage Standard Street Name: Shall be in conformance with the City of Champaign Manual of Practice Chapter 12: Traffic Control and Regulatory Signage, except as modified herein. Posts shall have a black powder coat finish.
  - c. Signage Street Name, Internally Illuminated: University District Standard. Custom fabricated per details and specification information. The sign shall consist of extruded aluminum top, bottom and door with cast aluminum ends. Fluorescent lighting will be provided by 2-800 MA standard lamps. The ballast shall be encased and potted and shall be provided by a major manufacturer with proven dependability. Fluorescent sockets will be D-Die snap-in-type sockets with rubber gasket on the lamp mating surface to prevent possible water damage. All wiring shall be 600 volts, 900 degree C, #18 AGW soft annealed copper wire. Wire connections will be made with insulated compression wire nuts. The sign face shall be .125" polycarbonate. All housing materials and connections shall be powder coated Black.

- d. Signage University District: University District Identification Signs: University District Standards as fabricated by the City of Champaign. See Details for specific information.
- e. Plaque Street Name: Shall be Cast Bronze CDA 922, and shall have a polyurethane clear coat finish, as manufactured by Architectural Aluminum & Bronze Company, Skokie, IL, (847) 674-3638 or approved equal.
- f. Plaque Dedication: Shall be Cast Bronze CDA 922, and shall have a polyurethane clear coat finish, as manufactured by Architectural Aluminum & Bronze Company, Skokie, IL, (847) 674-3638 or approved equal.
- 5. Planting
  - a. Tree Planting shall be in conformance with the City of Champaign Manual of Practice Chapter 24: Right-of-way street tree standards.
  - c. All other planting materials and methods shall be submitted per the City of Champaign Zoning Code Article X: Landscaping.