Tacoma

CITY OF TACOMA

Environmental Services Department

ADDENDUM NO. 4 **DATE:** February 22, 2023

REVISIONS TO:
Request for Bids Specification No. ES22-0204F
Solid Waste Management Downtown Compactor Enclosure Upgrade Project

NOTICE TO ALL BIDDERS:

This addendum is issued to clarify, revise, add to or delete from, the original specification documents for the above project. This addendum, as integrated with the original specification documents, shall form the specification documents. The noted revisions shall take precedence over previously issued specification documents and shall become part of this contract.

REVISIONS TO THE SUBMITTAL DEADLINE:

The submittal date shall remain the same.

REVISIONS TO THE GENERAL INFORMATION AND REQUIREMENTS:

The link to the bid opening has changed. See Request for Bids Page marked as Addendum #4.

REVISIONS TO SPECIFICATIONS:

Revision No. 1: Modifications have been made to Specification Section 07 90 00 Joint Protection, Specification Section 32 16 13 Concrete Curbs and Gutters, Specification Section 33 42 00 Stormwater Conveyance. The revised specifications sections are attached with the noted revisions.

REVISIONS TO THE PLANS:

Revision No. 1: The attached revised plans sheets shall be incorporated into the project.

REVISIONS TO WSDOT AND COT STANDARD PLANS (APPENDIX B):

Revision No. 1: The attached Standard Plans are added to the project requirements.

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NOTE: Acknowledge receipt of this addendum by initialing the corresponding space as indicated on the Signature Page. Vendors who have already submitted their bid/proposal may contact the Purchasing Division at 253-502-8468 and request return of their bid/proposal for acknowledgment and re-submittal. Or, a letter acknowledging receipt of this addendum may be submitted in an envelope marked Request for Bids Specification No. ES20-0047F Addendum No. 1. The City reserves the right to reject any and all bids, including, in certain circumstances, for failure to appropriately acknowledge this addendum.

cc: Jody Bratton, P.E., Environmental Services Department

City of Tacoma
Environmental Services/Science and Engineering Division

REQUEST FOR BIDS ES22-0204F
Solid Waste Management Downtown Compactor Enclosure Upgrade Project

Submittal Deadline: 11:00 a.m., Pacific Time, Tuesday, February 28, 2023

Submittals must be received by the City's Procurement and Payables Division prior to 11:00 a.m. Pacific Time.
For electronic submittals, the City of Tacoma will designate the time of receipt recorded by our email, bids@cityoftacoma.org, as the official time of receipt. This clock will be used as the official time of receipt of all parts of electronic bid submittals.

Submittal Delivery: Sealed submittals will be received as follows:

By Email:
bids@cityoftacoma.org
Maximum file size: 35 MB. Multiple emails may be sent for each submittal

Bid Opening: Held virtually each Tuesday at 11AM. Attend via this link or call 1 (253) 215 8782. Submittals in response to a RFB will be recorded as received. As soon as possible on the day of submittal deadline, preliminary results will be posted to www.TacomaPurchasing.org.

Solicitation Documents: An electronic copy of the complete solicitation documents may be viewed and obtained at the City's plan distribution service provider, ARC, 632 Broadway, Tacoma, WA, or by going to http://www.e-arc.com/location/tacoma. Prospective bidders will be required to pay reproduction costs. A list of vendors registered for this solicitation is also available at their website.

Pre-Proposal Meeting: A pre-proposal meeting in person at the project site located at 801 Court A South, Tacoma WA 98402 on **Tuesday, January 16, 2023**. NOTE: this is an outdoor location in downtown Tacoma, WA. Parking Is limited near the site so encourage carpooling for companies to consider.

Project Scope: The Work generally includes, but not limited to, installation of site improvements to support City supplied solid waste compactor unit and/or recycling collection containers at two downtown Tacoma locations. The project includes installation of concrete pads and sidewalk, integral architectural CMU and metal enclosure, landscaping and irrigation improvements, lighting and cameras systems, electrical wiring and cabinets

Estimate: $450,000 to $650,000.

Paid Sick Leave: The City of Tacoma requires all employers to provide paid sick leave as set forth in Title 18 of the Tacoma Municipal Code. For more information, visit our Minimum Employment Standards Paid Sick Leave webpage.

Americans with Disabilities Act (ADA Information: The City of Tacoma, in accordance with Section 504 of the Rehabilitation Act (Section 504) and the Americans with Disabilities Act (ADA), commits to nondiscrimination on the basis of disability, in all of its programs and

activities. Specification materials can be made available in an alternate format by emailing Gail Himes at ghimes@cityoftacoma.org, or by calling her collect at 253-591-5785.

Title VI Information: "The City of Tacoma" in accordance with provisions of Title VI of the Civil Rights Act of 1964, (78 Stat. 252, 42 U.S.C. sections 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin in consideration of award.

Additional Information: Requests for information regarding the specifications may be obtained by contacting Dawn DeJarlais, Senior Buyer by email to ddejarlais@cityoftacoma.org.

Protest Policy: City of Tacoma protest policy, located at www.tacomapurchasing.org, specifies procedures for protests submitted prior to and after submittal deadline.

Meeting sites are accessible to persons with disabilities. Reasonable accommodations for persons with disabilities can be arranged with 48 hours advance notice by calling 253-502-8468.

SECTION 07 90 00
JOINT PROTECTION

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:
   1. Sealants.
   2. Accessories

B. RELATED REQUIREMENTS
   1. **Section 03 30 00 – Cast-in-Place Concrete**
   2. **Section 04 22 00 – Concrete Unit Masonry**
   3. **Section 07 19 00 – Clear Water Repellent Treatment**

1.02 REFERENCES

REFERENCE	TITLE
ASTM C834	Standard Specification for Latex Sealants; 2010.
ASTM C920	Standard Specification for Elastomeric Joint Sealants; 2011
ASTM C1193	Standard Guide for Use of Joint Sealants; 2011a
ASTM C1330 TYPE C	Standard Specification for Cylindrical Sealant
ASTM D1056	Standard Specification for Flexible Cellular Materials--Sponge or Expanded Rubber; 2007
ASTM D1667	Standard Specification for Flexible Cellular Materials--Polyvinyl Chloride Foam (Closed-Cell); 2005 (Reapproved 2011)

1.03 SUBMITTALS

A. Specified in **Section 01 33 00 - Submittal Procedures**

B. Approval Submittals:
   1. Product Data:
      a. Submit Manufacturer's product data for products specified in this Section including product characteristics, performance, certified test results, product limitations and other information necessary to establish conformance with the requirements of this Section.
   2. Manufacturer's Instructions.
   3. Samples: Submit samples of the following accessories:
      a. Bond Breakers.
      b. Cylindrical Sealant Backing.
      c. Neoprene Sponge.

C. Quality Assurance Submittals:
   1. Statement of Installer Qualifications.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Installer shall have at least five years of experience in the application of sealants similar to those specified in this Section on projects comparable in scope to the Project.

B. Source Limitation:
   1. Each product or system specified in this Section shall be from a single Manufacturer.
   2. Accessories, materials and components associated with each product specified in this Section shall be provided by the Manufacturer of that product unless:
      a. Noted otherwise in this Section, or:
      b. Approved in writing by the Manufacturer of the product.

1.05 PROJECT CONDITIONS

A. Maintain temperature and humidity recommended by the sealant Manufacturer during and after installation.

PART 2 - PRODUCTS

2.01. MANUFACTURERS

A. Subject to compliance with requirements of the Contract Documents, products of the following Manufacturers shall be incorporated in the Work of this Section:
   1. Tremco – www.tremcosealants.com
   2. Dow Corning (Dow) – www.dowcorning.com
   3. Sika Corporation (Sika) – www.sikaconstruction.com
   4. BASF (formerly Sonneborn) – www.buildingsystems.basf.com
   5. Hohmann @ Barnard, Inc. – www.h-b.com

2.02 TWO-COMPONENT POLYURETHANE

A. Locations:
   1. Concrete - vertical joints.

B. Characteristics:
   1. Elastomeric, two-component, non-sag polyurethane.

C. Complies with **ASTM C-920 Type M**, Grade NS, Class 25, use T, NT, M, G, A, O, I and Federal specification TT-S-00230 C Type II, Class A.

D. Acceptable Products:
   1. Sika –‘Sikaflex-2c NS’
   2. BASF – MasterSeal NP2

2.03 ONE-COMPONENT POLYURETHANE

A. Locations:
   1. Aluminum door and gate framing
   2. Aluminum decorative metal panels

B. Characteristics:
   1. Elastomeric, single-component, non-sag polyurethane.
   2. Complies with **ASTM C-920 Type S**, Grade NS, Class 35, Uses T, NT, O, M, G and I.

C. Acceptable Products:
   1. Sika - ‘Sikaflex-1a’
      BASF – MasterSeal NP1

2.04 NEOPRENE SPONGE

1

A. Locations:
   1. Concrete Unit Masonry - vertical joints.

B. Characteristics:
   1. 1/2 inch thick polymer neoprene SBR.
   2. Closed cell - ASTM D1056 Grade 2A 1
   3. Without tear strip
   4. Pressure-Sensitive Adhesive on one side

C. Complies with **ASTM Specifications D-1056-91 (SCE 41/2A1), SAE Specifications 18-R**

D. Acceptable Products:
   1. NS – Close Cell Neoprene Sponge

PART 3 PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

B. Verify that joint backing and release tapes are compatible with sealant.

3.02 PREPARATION

A. Remove loose materials and foreign matter that could impair adhesion of sealant.

B. Clean and prime joints in accordance with Manufacturer's instructions.

C. Perform preparation in accordance with Manufacturer's instructions and **ASTM C1193.**

D. Protect elements surrounding the work of this section from damage or disfigurement.

3.03 INSTALLATION

A. Perform work in accordance with sealant Manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Perform installation in accordance with **ASTM C1193**.

C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by Manufacturer, except where specific dimensions are indicated.

D. Install bond breaker where joint backing is not used.

E. Install neoprene sponge up against vertical joints where concrete unit masonry meets up against pedestrian curb and existing building façades. 1

F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.

G. Apply sealant within recommended application temperature ranges. Consult Manufacturer when sealant cannot be applied within these temperature ranges.

H. Tool joints concave.

3.04 CLEANING

A. Clean adjacent soiled surfaces.

3.05 PROTECTION

A. Protect sealants until cured.

END OF SECTION

SECTION 32 16 13
CONCRETE CURBS AND GUTTERS

PART 1 GENERAL

1.01 SECTION INCLUDES

1

A. This Section includes specifications for providing cement concrete curb and gutters, pedestrian curbs, and valley gutters in accordance with the Contract Documents.

1.02 REFERENCE STANDARDS

A. The references listed below are a part of this Section. Where a referenced document contains references to other standards, those documents are included as references under this Section as if referenced directly. In the event of conflict between the requirements of this section and those of listed documents, the requirements of this Section shall prevail.

REFERENCE	TITLE
City of Tacoma	Standard Plans

1.03 DEFINITIONS

(NOT USED)

1.04 SUBMITTALS

A. Procedures: **Section 01 33 00 – Submittal Procedures.**

B. Concrete Mix Design: Submit concrete mix design and test results.

PART 2 PRODUCTS

2.01 GENERAL

A. Cement concrete curb and gutter and valley gutter shall be constructed with air entrained concrete Class 4000.

PART 3 EXECUTION

3.01 CONSTRUCTION

A. Cement Concrete Traffic Curb & Gutter in accordance with **City of Tacoma Standard Plan No. SU-03 Cement Concrete Curb and Gutter**.

B. Cement Concrete Valley Curb in accordance with detail shown in the Contract Drawings.

C. The foundation for curbs, gutters, and valley gutters shall be thoroughly compacted and required side forms shall rest throughout their length on firm ground. Side forms for straight sections shall be full depth of the curb. They shall be either metal of suitable gage for the Work or surfaced “construction” grade lumber not less than 2 inches (commercial) in thickness. Forms used more than one time shall be thoroughly cleaned and any forms that have become worn, splintered, or warped shall not be used again.

D. The foundation shall be watered thoroughly before the concrete is placed, and the concrete shall be well tamped and spaded or vibrated in the forms. The exposed surfaces shall be finished full width with a trowel and edger. Within 24 hours after the concrete is placed, the forms of the Roadway face of curbs shall be removed, and the concrete treated with a float finish. The top and face of the curb shall receive a light brush finish, and the top of the gutter shall receive a broom finish.

E. Expansion joints in the curb or curb and gutter shall be spaced as shown in the Plans, and placed at the beginning and ends of curb returns, drainage Structures, bridges, and cold joints with existing curbs and gutters. The expansion joint shall be filled to full cross-section with ⅜-inch premolded joint filler. When curb or curb and gutter is placed adjacent to portland cement concrete pavement, a ⅜-inch thick, 6 inch deep premolded joint filler shall be installed between the two vertical surfaces to prevent cracking.

F. The concrete shall be cured for 72 hours.

G. At the option of the Contractor, the curb and gutter may be constructed using approved slip-form equipment. The curb and gutter shall be constructed to the same requirements as the cast-in-place curb and gutter.

1

H. Cement concrete pedestrian curb in accordance with WSDOT Standard Plans F-10.12-04.

Neoprene sponge shall be located between vertical joints, concrete cement pedestrian curb and concrete unit masonry in locations indicated on the Plans. See **Section 07 90 00 - Joint Protection.**

END OF SECTION

SECTION 33 42 00
STORMWATER CONVEYANCE

PART 1 GENERAL

1.01 SECTION INCLUDES

1

A. This Section includes specifications for furnishing and installing catch basins and ADA grates.

1.02 DEFINITIONS

(NOT USED)

1.03 SUBMITTALS

A. Procedures: **Section 01 33 00 – Submittal Procedures.**

B. Product Data: Submit manufacturer's product data for precast concrete catch basins for Project Representative's approval.

PART 2 PRODUCTS

2.01 GENERAL

A. **Precast Concrete Catch Basins:** All precast concrete items shall meet the requirements of **AASHTO M199**, fabricated as shown on the Plans, and shall meet the tolerances and revisions as listed below.
The following information shall be legibly marked on each precast product (excluding rectangular and round adjustment sections). Marking shall be indented into the concrete, painted thereon with waterproof paint, or contained within a bar-coded sticker firmly attached to the product:
fabricator name or trademark.
date of manufacture.
Catch Basin Type 1:
knock-out wall thickness, measured at thinnest point, 1½ to 2½ inches.
knock-out diameter, 5 percent plus/minus allowance.
base thickness, measured at thinnest point, 4 inches with ½-inch minus tolerance.
all other dimensions as shown on Plans, 5 percent plus/minus allowance.

B. **Grate Inlets**: Steel in grates, angles, and anchors for grate inlets shall conform to **ASTM A36**, except structural tube shall conform to **ASTM A500**, Grade B, and structural shapes may conform to **ASTM A992**. After fabrication, the steel shall be galvanized in accordance with **AASHTO M111**, or galvanized with a hot-sprayed (plasma flame applied) 6 mil minimum thickness plasma coating.

Steel grating shall be fabricated by weld connections. Welds, welding procedures, and welding materials shall conform with the **AWS D1.1/D1.1M**, latest edition, Structural Welding Code.

PART 3 EXECUTION

3.01 CONSTRUCTION

1

A. Construction requirements for installation of catch basin with ADA grates shall be in accordance with WSDOT Standard Plan B-5.20-03 Catch Basin Type 1.

B. The excavation for all manholes, inlets, and catch basins shall be sufficient to leave 1 foot in the clear between their outer surfaces and the earth bank.

C. The cover or grating of a manhole, catch basin, or inlet shall not be grouted to final grade until the final elevation of the pavement, gutter, ditch, or sidewalk in which it is to be placed has been established, and until permission thereafter is given by the Project Representative to grout the cover or grating in place. Covers shall be seated properly to prevent rocking. Leveling and adjustment devices that do not modify the structural integrity of the metal frame, grate or cover, and do not void the originating foundry's compliance to these specifications and warranty are allowed. Leveling and adjusting devices that interfere with the backfilling, backfill density, grouting and asphalt density will not be allowed. The hardware for leveling and adjusting devices shall be completely removed when specified by the Project Representative.

D. In the event any pipe enters the manhole through the precast concrete units, the Contractor shall make the necessary cut through the manhole wall and steel mesh. The steel shall be cut flush with the face of the concrete and shall be cut in such a manner that it will not loosen the reinforcement in the manhole wall.

E. The ends of all pipes shall be trimmed flush with the inside walls.

F. Rubber gaskets or flexible plastic gaskets may be used in tongue and groove joints of precast units. Joints between precast manhole units used for sanitary sewers shall be rubber gasketed. All other joints and all openings cut through the walls shall be grouted and watertight.

G. If gaskets are used, handling of the precast units after the gasket has been affixed shall be done carefully to avoid disturbing or damaging the gasket or contaminating it with foreign material. Care shall be exercised to attain proper alignment before the joints are entirely forced home. During insertion of the tongue or spigot, the units shall be partially supported to minimize unequal lateral pressure on the gasket and to maintain concentricity until the gasket is properly positioned.

H. Catch basins, manholes, and inlets shall be watertight.

I. The backfill material for openings dug for Structures shall be nonclay material containing no pieced more than 3 inches across, no frozen lumps, and no wood or other foreign material.

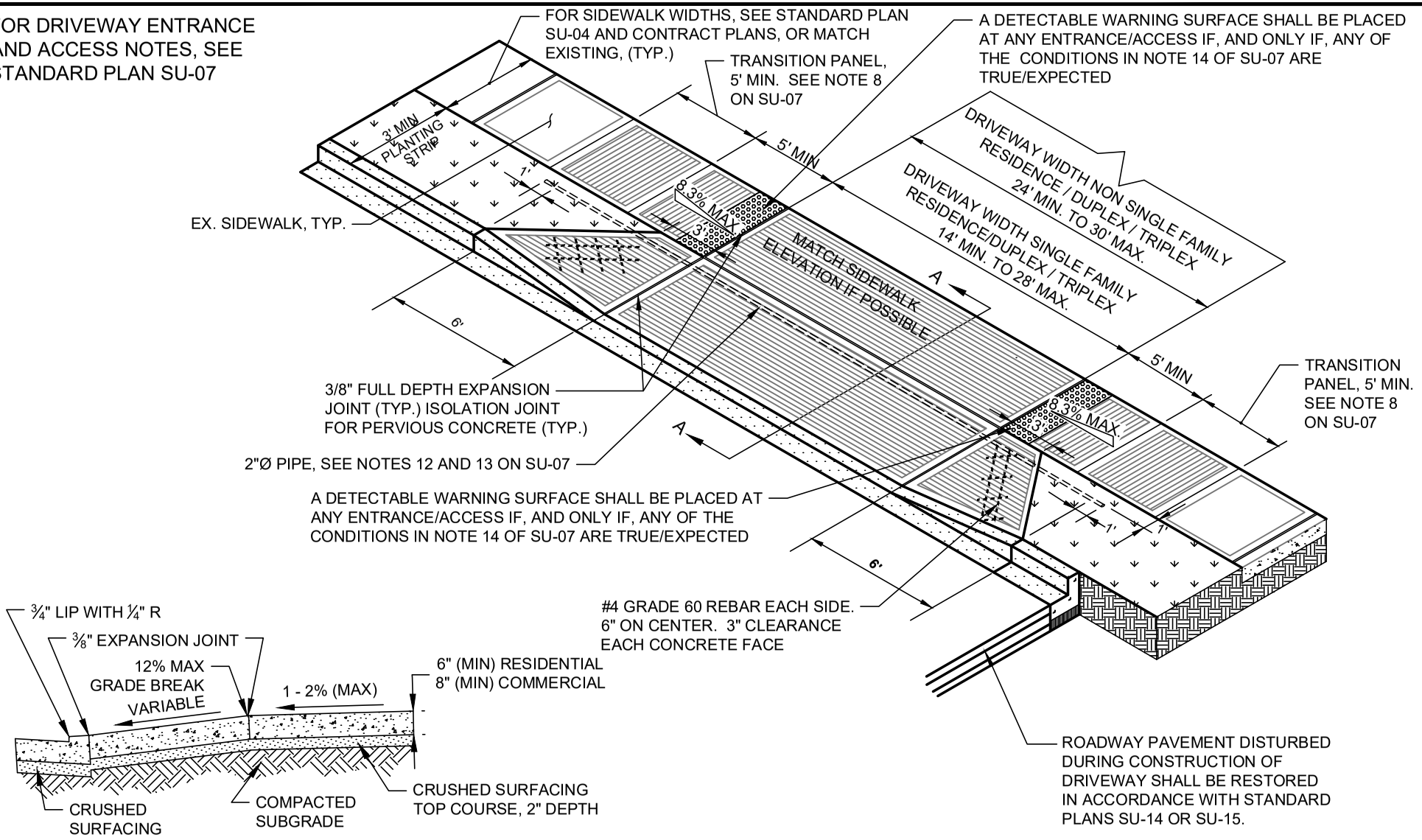
J. Manholes, catch basins, inlets, and drywells shall be constructed on a compacted or undisturbed level foundation. If the Contractor elects to use a separate cast-in-place base, the concrete shall be Class 4000. Upon final acceptance of the Work, all manholes, catch basins, inlets, drywells, and other drainage Structures shall conform to the requirements of the Standard Plans except as approved by the Project Representative.

END OF SECTION

APPENDIX B

WSDOT AND COT STANDARD PLANS

FOR DRIVEWAY ENTRANCE AND ACCESS NOTES, SEE STANDARD PLAN SU-07



NOTE: DESIGNED SECTION REQUIRED FOR PERMEABLE SURFACING. SEE NOTES 10 AND 11 ON SU-07.

STANDARD CONCRETE SECTION DETAIL A-A

NTS

REVIEWED BY DS RVDR	DS EW	JOSHUA JAMES DIEKMANN STATE OF WASHINGTON 41361 REGISTERED PROFESSIONAL ENGINEER	APPROVED FOR PUBLICATION
PUBLIC WORKS	ENVIRONMENTAL SERVICES		DocuSigned by: 10/02/2022
DS TACOMA POWER	DS TS TACOMA WATER		CITY ENGINEER DATE

CITY OF TACOMA
CEMENT CONCRETE DRIVEWAY ENTRANCE AND ACCESS
TYPE 1

STANDARD PLAN NO. SU-07A

DRAWN BY: BILL BERENS

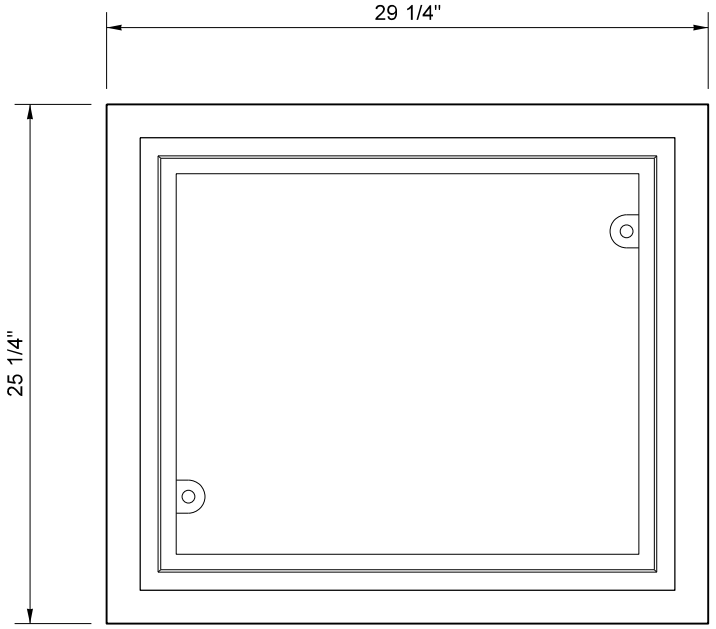
NOTES

1. Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC × 2" (in) Allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.

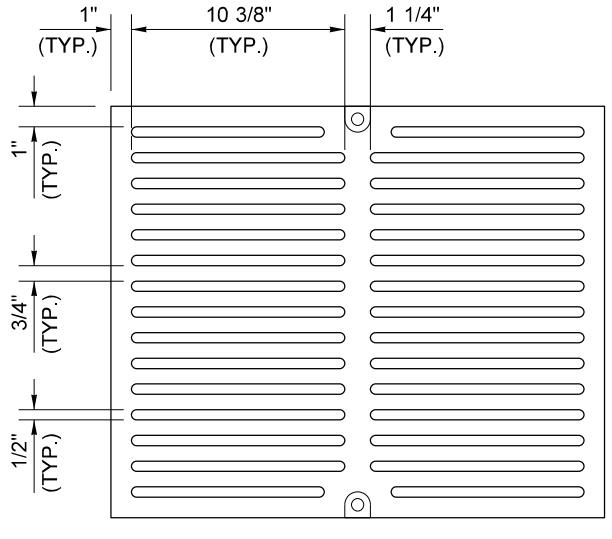
2. All grates shall be 20" (in) x 24" (in).

3. Grate alternatives shown for informational purposes. Grate design varies by manufacturer and must meet ADA requirements.

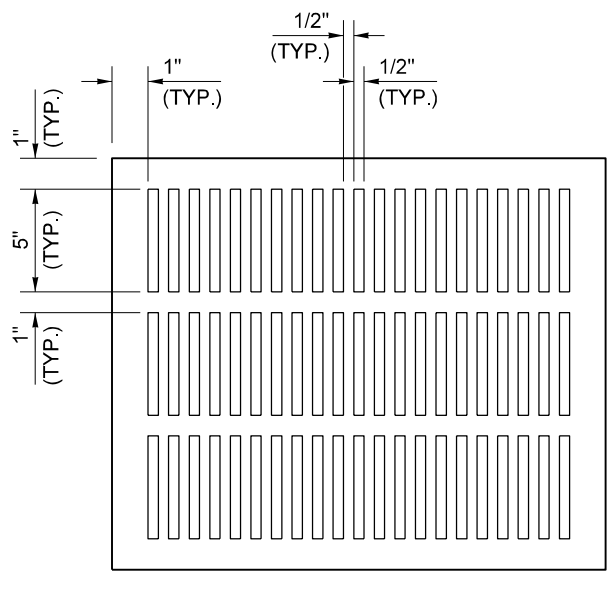
4. Refer to **Standard Specification Section 9-05.15 and 9-05.15 (2)** for additional requirements.



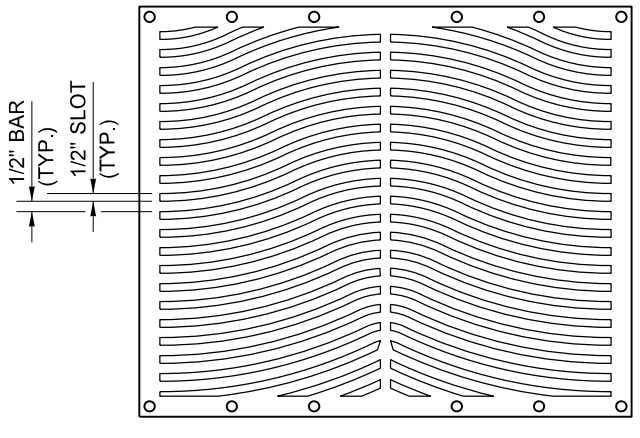
PLAN VIEW
GRATE FRAME
FOR DETAILS NOT SHOWN,
SEE STANDARD PLAN B-30.10



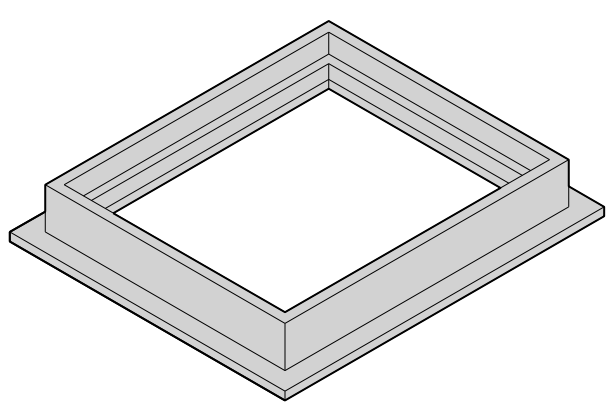
PLAN VIEW
GRATE
ALTERNATIVE 1

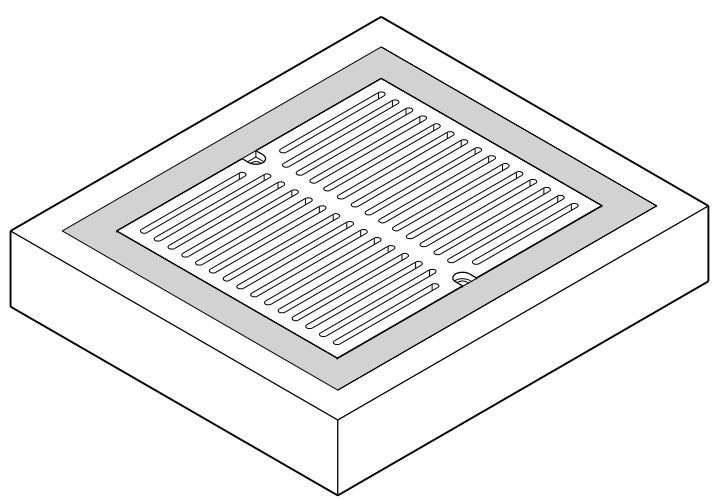


PLAN VIEW
GRATE
ALTERNATIVE 2



PLAN VIEW
GRATE
ALTERNATIVE 3





ISOMETRIC VIEWS
(GRATE ALTERNATIVE 1 SHOWN)

JULIE HEILMAN
STATE OF WASHINGTON
41819
REGISTERED
PROFESSIONAL ENGINEER

ADA GRATES FOR RECTANGULAR FRAMES

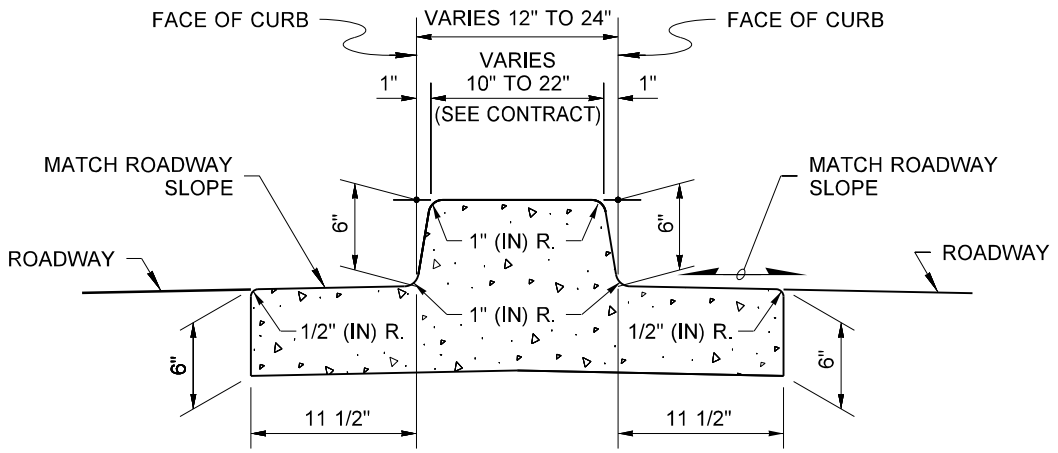
STANDARD PLAN B-30.15-00

SHEET 1 OF 1 SHEET

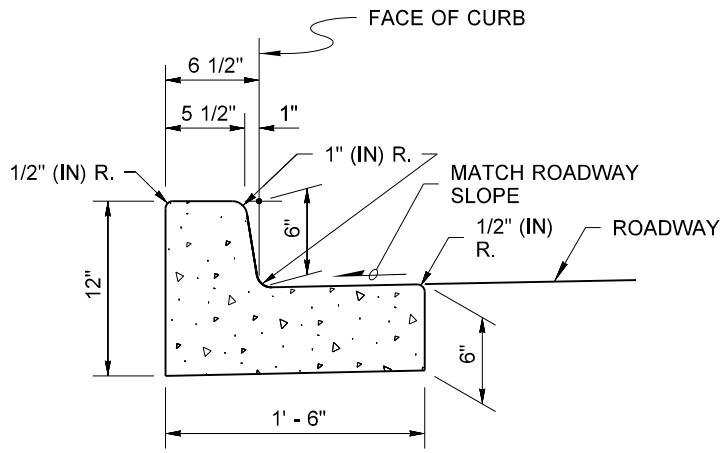
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

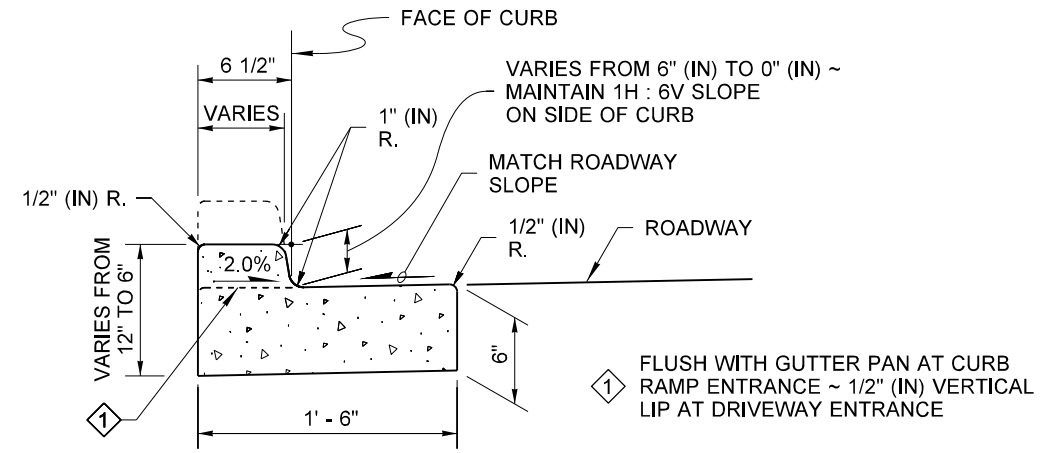
Washington State Department of Transportation



DUAL-FACED CEMENT CONCRETE TRAFFIC CURB AND GUTTER



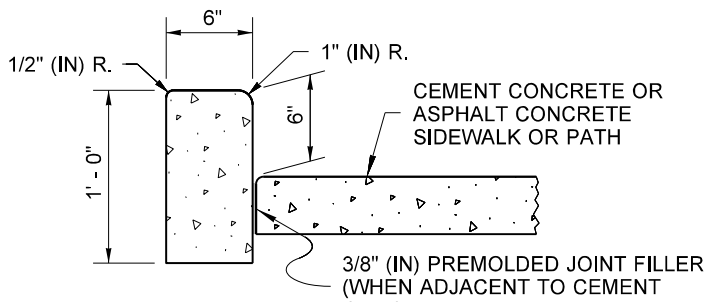
CEMENT CONCRETE TRAFFIC CURB AND GUTTER



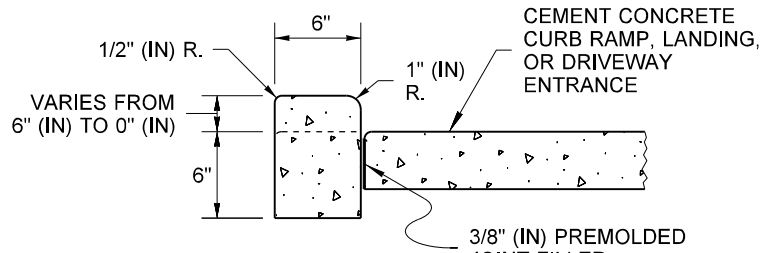
DEPRESSED CURB AND GUTTER SECTION

AT CURB RAMPS AND DRIVEWAY ENTRANCES

DRAWN BY: FERN LIDDELL



CEMENT CONCRETE PEDESTRIAN CURB

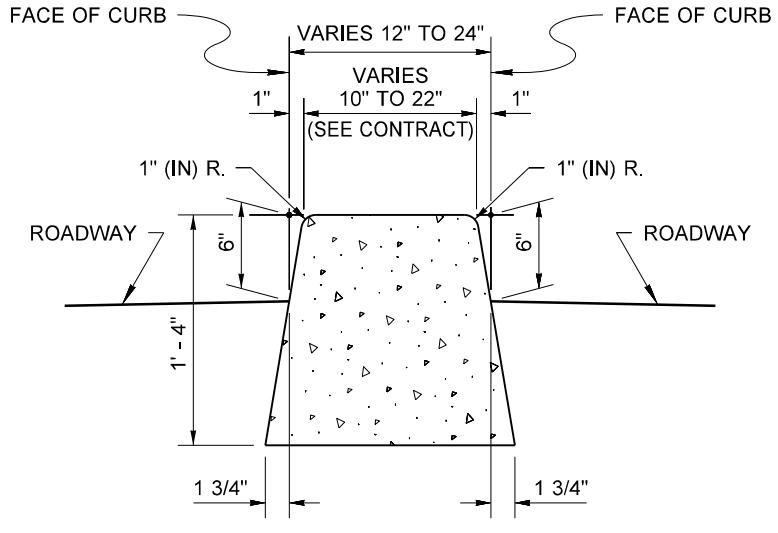


CEMENT CONCRETE PEDESTRIAN CURB

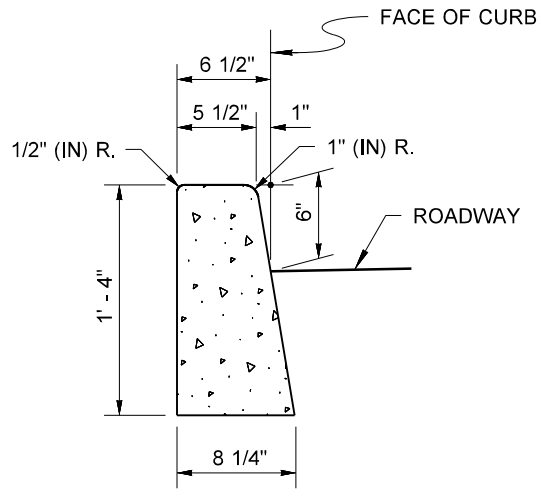
AT CURB RAMPS, LANDINGS, AND DRIVEWAY ENTRANCES

NOTE

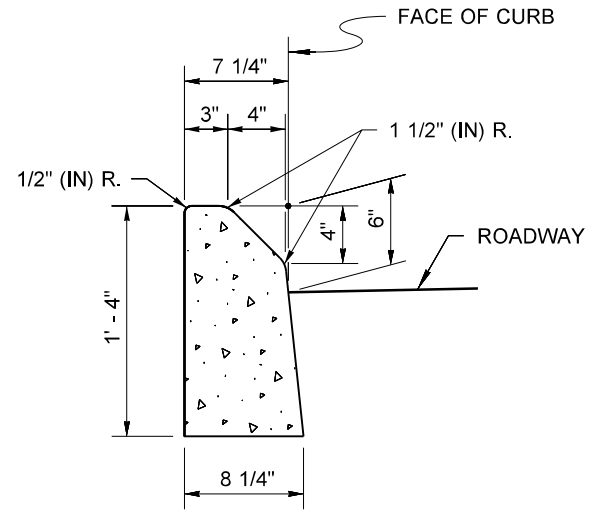
1. See **Standard Plan F-30.10** for Curb Expansion and Contraction Joint spacing. See **Standard Specification, Sections 8-04 and 9-04** for additional requirements.



DUAL-FACED CEMENT CONCRETE TRAFFIC CURB



CEMENT CONCRETE TRAFFIC CURB



MOUNTABLE CEMENT CONCRETE TRAFFIC CURB

Michael S Fleming

Digitally signed by Michael S Fleming
Date: 2020.09.24 07:39:38 -07'00'

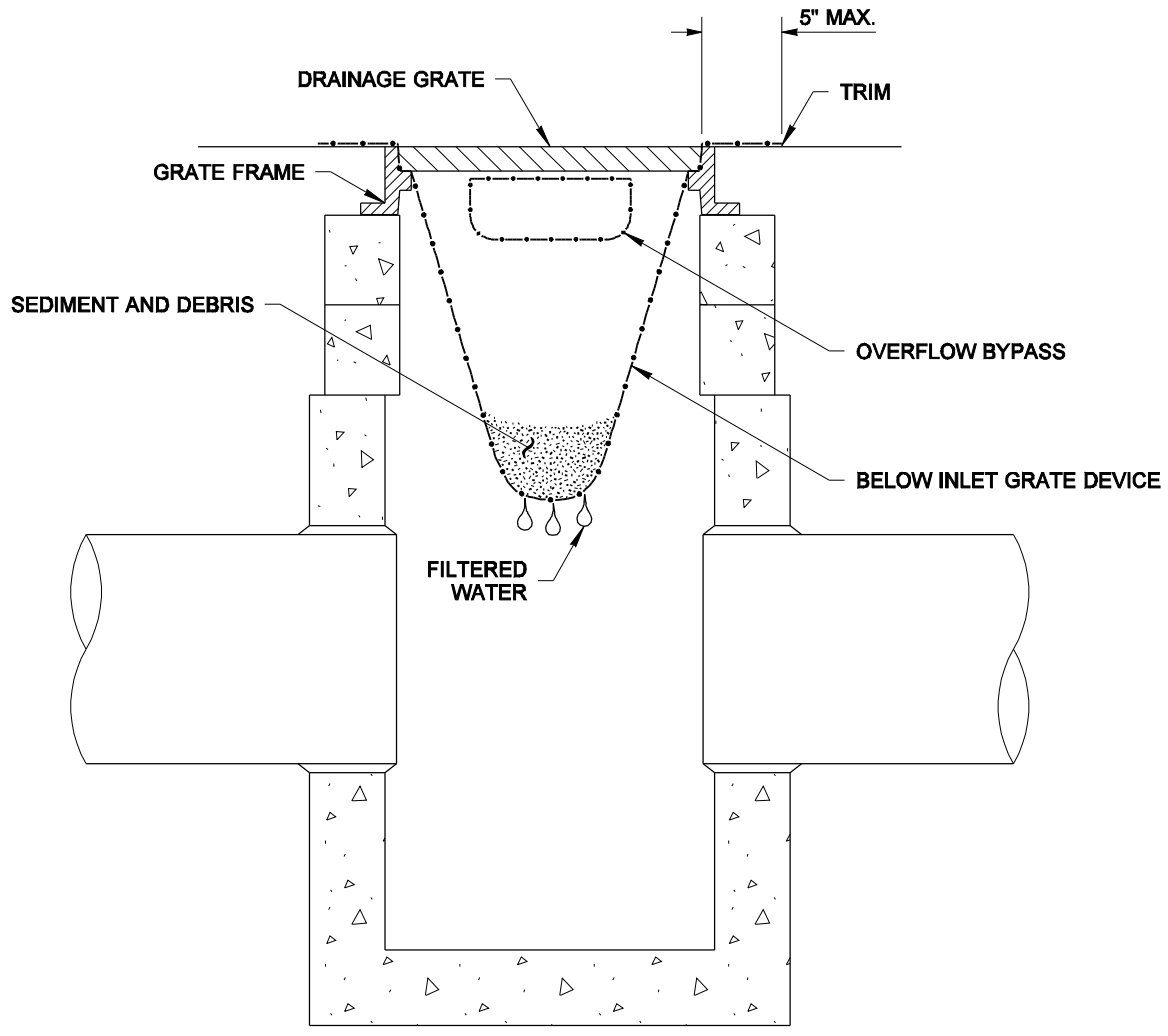
CEMENT CONCRETE CURBS

STANDARD PLAN F-10.12-04

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Date: 2020.09.24 07:57:43 -07'00'
STATE DESIGN ENGINEER
Washington State Department of Transportation

DRAWN BY: LISA CYFORD

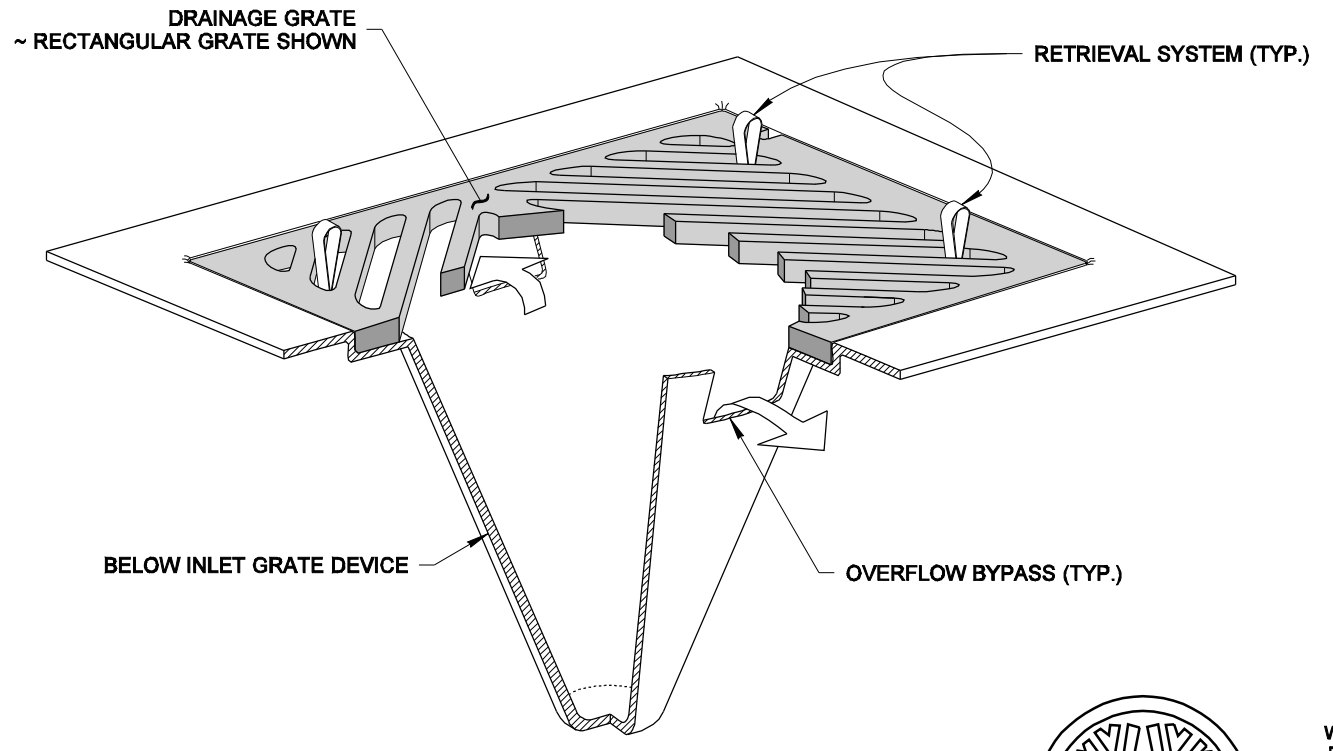


SECTION VIEW

NOT TO SCALE

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



ISOMETRIC VIEW

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

MARK W. MAURER
CERTIFICATE NO. 000598

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

STORM DRAIN INLET PROTECTION

STANDARD PLAN I-40.20-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III — STATE DESIGN ENGINEER

09-20-07 — DATE

Washington State Department of Transportation