



ALTERNATIVE METHODS OR CONSTRUCTION MATERIALS REQUEST

Engineering Design Standards

This request must be filled out completely for the City to consider any deviations from their design standards and requirements for engineering design. Please be aware the City of Puyallup's design standards are **MINIMUM** requirements. These requirements are considered by the City as fair, reasonable and promote public safety. The applicant is obligated to convince City staff this request is necessary, justifiable, and will not reduce public safety. To be granted, **all** departments must be in agreement.

When preparing this application, please print or type the reply to each question. Incomplete applications will delay the timeliness of the review. This application is the sole basis for approval of deviations from standards, be sure to supply eight (8) copies and attach any and all supporting documentation to the application.

If you have any questions, please contact Engineering Services at (253) 864-4165.

Application Fee: \$250.00

OWNER

Name: Tac Build LLC
Address: PO Box 7619
City St Zip: Tacoma, WA 98417
Contact No: 253-581-4500
Email: mike@tacbuildllc.com

APPLICANT

Name: Tac Build LLC
Address: PO Box 7619
City St Zip: Tacoma, WA 98417
Contact No: _____
Email: mike@tacbuildllc.com

ENGINEER/ARCHITECT

Name: CES NW Inc
Address: 429 29th St NE Suite D
City St Zip: Puyallup, WA 98372
Contact No: 253 848 4282
Email: dsmith@cesnwinc.com

CONTRACTOR

Name: TBD
Address: _____
City St Zip: _____
Contact No: _____
Email: _____

SITE ADDRESS: 1200 7th Ave SE PARCEL NO: 7845001330 ZONING: RM10
PROJECT NAME: 1200 7th Avenue Townhomes
LAND USE APPLICATION #: E-21-0286 BUILDING PERMIT APPLICATION #: _____

Signature of Applicant: _____

Date

7-29-22

Items 1-9 are issues and concerns that must be addressed by the applicant. If additional reports, supporting documents and attachments are necessary to clarify/support this request, material shall be listed in item 9 and referenced within items 1-9.

1. Describe the proposed modification (from what requirements are you seeking relief?).

Please see attached.

2. Describe how the proposed modification is based on sound engineering principles. (Granting the modification will not result in risk or harm to the public related to storm drainage, traffic, water, sanitary sewer, transportation, fire protection or structural matters).

Please see attached.

3. Describe how a strict application of the requirement would impose an undue hardship on the applicant.

Please see attached.

4. Describe how the requirements for safety, environmental considerations, function, appearance and maintainability would be fully met, assuming the granting of your request.

Please see attached.

5. Describe how the granting of the modification provides adequate protection of the public health, safety and welfare.

Please see attached.

6. Does this request require different maintenance cycles, equipment or skills?

Please see attached.

7. Does this request provide for a service life equal to or greater than the City requirement?

Please see attached.

8. Describe how the granting of the modification will be in the best interest of the public?

Please see attached.

9. List reports, supporting documents and attachments accompanying this request:

Please see attached.

STAFF RECOMMENDATIONS	APPROVED	DENIED	DATE
Development Engineering		<i>[Signature]</i>	08/29/2022
<p>Conditions:</p> <p>Original request DENIED due to the depth of the proposed 8-in storm crossing which would result in backwater conditions in large storm events. Subsequent discussions with the project engineer, CES, Inc., determined that it would be best to relocate the existing gas main and water main to allow a storm crossing that would not backwater. Once the existing utilities are relocated, City Standard 12-in ductile iron pipe will be utilized.</p> <p>APPROVED-the use of curb inlet rather than Type 1 catch basin due to the shallowness of existing utilities.</p> <p>CES, Inc. will revise the civil drawings accordingly and resubmit for review and acceptance.</p>			
Traffic Engineering	NOT APPLICABLE		
Conditions:			
Public Works - Streets	NOT APPLICABLE		
Conditions:			
Public Works - Water	NOT APPLICABLE		
Conditions:			
Public Works - Collections	JG		8/10/2022
Conditions:			
Stormwater Engineer	NOT APPLICABLE		
Conditions:			
Fire Code Official	NOT APPLICABLE		
Conditions:			
Police Department	NOT APPLICABLE		
Conditions:			

	APPROVED	DENIED	DATE
City Engineer	Ke <i>[Signature]</i>		8/29/2022 8/29/2022

CONDITIONS: _____

ALTERNATIVE METHODS OR CONSTRUCTION MATERIALS REQUEST
City of Puyallup Engineering Design Standards.

Items 1-9 are issues and concerns that must be addressed by the applicant. If additional reports, supporting documents and attachments are necessary to clarify/support this request, material shall be listed in item 9 and referenced within items 1-9.

1. Describe the proposed modification (from what requirements are you seeking relief?).

1200 7th Avenue Town homes project proposes to use an 8-inch diameter PVC pipe to connect the proposed onsite stormwater facility to the existing storm system in 7th Avenue SE. An Alternate Methods Request is required to modify the stormwater pipe size as described in Section 204.3.4 of the City Standards, page 200-6. The existing water, sewer and gas utilities in 7th Avenue SE constructed so that they would be in conflict with a 12-inch diameter stormwater pipe from the project site. An 8-inch diameter pipe is proposed to avoid these conflicts.

2. Describe how the proposed modification is based on sound engineering principles. (Granting the modification will not result in risk or harm to the public related to storm drainage, traffic, water, sanitary sewer, transportation, fire protection or structural matters).

The project's is requesting a the used of an 8-inch diameter stormwater pipe between onsite stormwater facility and the existing storm system in 7th Avenue SE. The 8-inch pipe can convey the unmetereed 100-year stormwater event from the onsite improvements (0.22-cfs) with an additional 0.44-cfs capacity available at 80% full. Therefore, the proposed diameter will not result in risk or harm to the public.

3. Describe how a strict application of the requirement would impose an undue hardship on the applicant.

The strict application of the 12-inch required stormwater pipe diameter will create utility conflicts between the existing sewer, water and gas utilities within 7th Ave SW.

4. Describe how the requirements for safety, environmental considerations, function, appearance and maintainability would be fully met, assuming the granting of your request.

Granting this request would allow an 8-inch diameter pipe only for the storm crossing 7th Ave SE to avoid utility conflicts. The pipe has the ability to fully convey the project's unmitigated runoff while only using about 1/3 the pipe's capacity at 80% full; therefore, an 8-inch diameter pipe that can safely convey the runoff from the project site while avoiding utility conflicts. Environmental considerations, function, appearance, maintainability would be unchanged between a 12-inch and 8-inch diameter pipe.

5. Describe how the granting of the modification provides adequate protection of the public health, safety and welfare.

Granting this request would allow an 8-inch diameter pipe only for the storm crossing 7th Ave SE to avoid utility conflicts. Since an 8-inch pipe can convey they project unmitigated 100-year storm event this request provides adequate protection of the public health, safety and welfare.

6. Does this request require different maintenance cycles, equipment or skills?

This request will not change the maintenance cycles, equipment or skills for the proposed 8-inch stormwater pipe.

7. Does this request provide for a service life equal to or greater than the City requirement?

The request does not change the service life of the 8-inch stormwater pipe.

8. Describe how the granting of the modification will be in the best interest of the public?

By granting this modification would allow the project to connect to the downstream stormwater conveyance system without extensive utility reconstructions within 7th Ave SE which would require long roadway closures and impact traffic patterns within the City.

9. List reports, supporting documents and attachments accompanying this request:

- Sheet C6 of Permit E-21-0286
- Stormwater Conveyance Calculations

