

GENERAL NOTES:
1. CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, OF DIMENSIONS AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF AURORA, THROUGH THE APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
2. BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM ESTABLISHED FOR THE COLORADO CENTRAL ZONE 0520, NORTH AMERICAN DATUM (NAD) OF 1983. DISTANCE SHOWN HEREON ARE GROUND UNITS. BEING THE NORTH LINE OF LOT, LOWRY CREDIT UNION SUBDIVISION FLING NO. 1, BEARING N89°51'35"W, BETWEEN MONUMENTS SHOWN HEREON. VERTICAL RELIF WAS MADE FROM AN ON THE GROUND SURVEY CONTOURS SHOWN HEREON ARE AT 1' INTERVAL USING THE NORTH AMERICAN VERTICAL DATUM OF 1998 (NAVD 88), GEOID 12A. SITE VERTICAL WAS ESTABLISHED BY USING NGS BENCH MARK "B 407 RESEST"

Comment addressed. Proposed storm drain will be designed to convey the 100-year storm.

3. ALL PROPOSED STORM SIZED FOR 5-YR EVENT.
4. ALL PROPOSED STORM INFRASTRUCTURE IS PRIVATE.

All storm sewer on this site must be designed for the 100yr event
Per SDTCM 3.31, in Urban Center or Transit Oriented District (TOD) areas 100 year design capacity is required of all storm conveyance systems, see COA SDDTC for limitations on street flow depth.

There shall be 6" of freeboard from the 100yr WSEL to the top of the channel, and 1' from the 100yr WSEL to any adjacent building FFE

LEGEND:

1st Review

Comments in magenta red provided by Slantern@auroragov.org (Drainage)

For all inlets in a sump:
Provide a cross section on the plan sheet showing the 100yr WSEL (assuming the inlet is 100% clogged) over the weir, and show in that there will be at least 1' of freeboard to the adjacent building FFE
Provide broad crested weir calculations determining the 100yr overflow WSEL in the report
In the event that 1' of freeboard is not available, the inlet must be designed for twice the 100 yr flow (including a 50% clogging factor)
Include "Advisory Note that PDR approval is required prior to Civil Plan Approval"

Per the current PDR Pre-Acceptance Checklist and COA Roadway Manual 2.02.4, the PDR review should be completed in 3 reviews, and additional reviews shall incur additional review fees

If there are to be retaining walls, provide labeling cross sections per the below

Per 2.32 and 2.42 of the Criteria and 4.02.7 of the Roadway Manual, show all retaining wall(s) location and bottom of wall elevations, and maximum height(s)

Provide slopes throughout the PD plan.

Slopes shall be at a minimum 2% on asphalt, 1% on concrete, .5% on grass/landscape

This should be the top/larger project name

Provide slopes adjacent to the building showing slopes away from the building

Label curb opening as maximum 2' in width

Confirm grading shown here is accurate to what is present

Mapping indicates that the grading as shown below

If the grading is changed as shown in these plans, provide the EDN of those changes

APPLICANT
QuikTrip Corp

12000 Washington S
Thornton, CO 8
303.248.04

DATE:
04/24/2023

NOT FOR CONSTRUCTION

This note will not be permitted at the signature set of the civil plans

DATE:
04/24/2023

SHEET TITLE:
POST-DEVELOPED DRAINAGE MAP

State what the scale is (minimum is 1"=30' for commercial sites)

All copyright must be removed from plans so that the city will have no restrictions on reproduction

Remove City Engineer signature line. (Per a new City policy effective 03/01/2023, the City Engineer no longer signs Drainage Plans/Reports.)

Provide roof drain downslope location

Comment addressed. Roof drain downslope locations provided.

Comment addressed.

Comment addressed.

Comment acknowledged.

Comment acknowledged.

Comment acknowledged.

Comment acknowledged.

Comment acknowledged.

Comment acknowledged.

Comment addressed. Additional survey data collected; therefore, min. contour distance beyond PL is 50'.

Per 2.34 and 2.42 of the Criteria Manual and 2.08.1.02 of the Roadway Manual, Contours should be shown and labeled at two feet (2') maximum intervals, extended fifty feet (50') min beyond property line and beyond the flow line of any street adjoining the site, and shown for all off-site tributary areas. Offsite tributary areas may be shown on a separate 11x17 in report

For all adjacent sites, evaluate if there will need to be any emergency overflows perpetuated through the site

Per 2.03.7 of the Roadway Manual "Where applicable label adjacent subdivision names and their City of Aurora six digit Engineering Drawing Number (EDN)". If an EDN has not been assigned, list the RSN. (Typical all sheets and all adjacent projects and properties. Comment appears once.)

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Per 2.11.1.11 of the Roadway Manual, clearly show Right(s)-of-Way and easements with adjoining subdivision names and EDNs or RSNs. Proposed right(s)-of-way shall be shown for informational purposes.

Do not provide model of inlet at PD stage (this will be determined, reviewed and approved at Civil Plan stage)

Only specify inlets as "grate", "curb opening", etc.

Comment acknowledged. There are no off-site flows we are aware that should be accounted for in the proposed site drainage design.

Comment addressed.

Comment addressed.

Comment addressed. A cross-section is shown for each proposed inlet. We did not broad-crested weir calculations at each basin's point of overtopping except for basin A2. The estimated WSEL (based on 2' x Q100 at the respective DP) at inlets in basins A4, A5, A6 and A7 is within 1' of the proposed finished floor elevation.

- Basin A4 will overtop the curb and flow into basin A2 before reaching the proposed FF elevation.
- Basin A5 will overtop a local highpoint and flow into basin A6.
- Basin A6, along with basin A5, will overtop into basin A7.
- Basin A7 will overtop into Alameda Ave. As the design progresses into FD, can we then provide overtopping calculations?

Basin A3 will overtop into basin A2 which will overtop into the Private Streets NE of the project site. A broad-crested weir calculation is provided in the appendices of the PDR.

Comment addressed. Site Plan comment stated that Private Streets such as Crystal Street do not have RoWs; therefore, 'R.O.W. VARIES' was removed. EDNs added.

Comment acknowledged.

MASTER BASIN CALCULATIONS (Town Center Phase 1 A Master Report)									
DESIGN POINT	BASIN	AREA	Imperviousness %	tc	C2	C100	Q5	Q100	
SB 8	8	1.60	75.5%				2.60	8.1	
DEVELOPED BASIN CALCULATIONS									
DESIGN POINT	BASIN	AREA	Imperviousness %	tc	C5	C100	Q5	Q100	
A BASINS									
A1	A1	0.19	75%	5.0	0.65	0.79	0.5	1.2	
A2	A2	1.11	90%	5.0	0.77	0.85	3.3	7.8	
Total A	A2	1.30	89%				3.8	9.0	
H BASINS									
H1	H1	0.08	13%	10.0	0.14	0.54	0.0	0.3	
H2	H2	0.14	19%	10.0	0.19	0.56	0.1	0.5	
H3	H3	0.08	46%	5.0	0.41	0.67	0.1	0.4	
Total H	-	0.30	16%				0.2	1.2	
ENTIRE SITE									
Total Comp Site	1.52	79%	5.8	0.68	0.81	3.9	9.7		

*A1, A2, H2, H3 (To match Master Basin SB bounds for proper comparison)

APPROVED FOR ONE YEAR FROM THIS DATE

CITY ENGINEER	DATE
WATER DEPARTMENT	DATE



C122