



Date: Wednesday, March 04, 2026

Project: Xcel Tline: Pathways Segment 5 Arapahoe County Build
County Case No. ASI25-001/LE25-003
SEMSWA Case No. DPR25-0034

To: Sue Liu, P.E., CFM
Arapahoe County Public Works and Development Engineering Services Division

From: Engineer Contact:
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Subject: Drainage Letter of Conformance

This Drainage Letter is part of a larger packet submittal regarding the Xcel Tline: Pathways Segment 5 Arapahoe County Build project (Project).

Description of Project or Work

This Drainage Letter is submitted as part of a larger permitting packet for the Xcel Colorado Power Pathways – Segment 5 Arapahoe County Transmission Line Build (Project). The Public Service Company of Colorado (PSCo), an Xcel Energy company, proposes to construct approximately 18 miles of new 345-kilovolt (kV) double-circuit transmission line.

The Project begins adjacent to the Harvest Mile Substation (0.32 miles southeast of E Quincy Avenue and S Harvest Road) and ends at proposed Structure 593, near County Road 129 and County Line Road. The approximate center of the alignment within Arapahoe County is located at 39°38'16.74"N, 104°33'33.26"W (Figure 1). The transmission line will use a combination of monopole, tangent, and dead-end steel pole structures.

Description of Property

The Project crosses multiple parcels that are zoned as the following:

- Proposed Structure HMIL – Agricultural (A-1)
- Proposed Structure 702 – Mixed Use (MU)
- Proposed Structure 701 – Agricultural (A-1)
- Proposed Structures 700 to 695 – Agricultural Estate (AE)
- Proposed Structures 694 to 671 – Agricultural (A-1)
- Proposed Structures 670 to 668 – Heavy Industrial, Proposed Unit Development (I-2 PUD)
- Proposed Structures 669 to 662 – Agricultural (A-1)
- Proposed Structures 661 to 657 – Heavy Industrial (I-2)



- Proposed Structures 657 to 593 – Agricultural (A-1)

Existing Site Conditions

The proposed transmission line corridor is located within a 150-foot-wide PSCo right-of-way that traverses undeveloped, vegetated ground. The terrain is generally flat, with isolated minor natural drainageways that will be protected throughout construction. The corridor alignment intersects multiple waterways and tributaries, including Murphy Creek, Senac Creek Tributary, Senac Creek, Black Shack Creek West Tributary, Black Shack Creek, Coal Creek, Box Elder Creek, and tributaries to both the South Platte River and Kiowa Creek. Erosion and sediment control measures will be implemented to protect these resources, including the use of sediment control logs, reducing disturbance where feasible, and installing temporary matting at crossing locations.

Within the Harvest Mile Substation, existing conditions consist of aggregate surfacing and concrete foundations that support the current electrical infrastructure. The site includes an existing detention pond and stormwater conveyance system that were constructed during the original build-out of the substation.

No additional improvements are proposed within the substation tributary area beyond installation of a single monopole foundation. The monopole foundation has an area of approximately 173 square feet (0.004 acres) of impervious surface. This represents a de minimis increase in impervious area and will not measurably impact runoff characteristics, drainage patterns, or the performance of the existing detention and stormwater conveyance infrastructure. Therefore, no modifications to the existing drainage design are anticipated.

Project Area and Disturbance

Jurisdiction	Project Area (Approx.)	Disturbance Area (Approx.)
Unincorporated Arapahoe County within SEMSWA Service Area	97 AC	14 AC
Unincorporated Arapahoe County outside of SEMSWA Service Area	213 AC	51 AC
City of Aurora	16 AC	1 AC
Total	326 AC	66 AC

Total Proposed Impervious Area

Jurisdiction	Transmission		Totals
	# of Transmission Line Poles	Δ in Impervious Area due to Transmission Line Poles (SF)	Total Δ in Impervious Area (AC)
Unincorporated Arapahoe County within SEMSWA Service Area	33	1,515 SF	0.035 AC
Unincorporated Arapahoe County outside of SEMSWA Service Area	70	3,807 SF	0.087 AC
City of Aurora	6	170 SF	0.004 AC
Total	109	5,492 SF	0.126 AC



Project Impact on the Original Drainage Design

Along the transmission line corridor, surface water flow patterns in the project area will not change as a result of the minor, localized grading and structure installation. Site disturbance will be limited to:

- Minor grading and mowing (as needed) around structure locations,
- Grading for temporary access roads,
- Installation of concrete foundations, and
- Stringing and placement of conductor wire.

The majority of access will be a drive-and-crush approach, which does not alter existing grades. Where grading is required for access improvements, cuts and fills will generally be less than 1 foot, and most areas will have less than 6 inches of grade adjustment. These minimal grade changes will not alter local or regional drainage basins. Flow paths across the project will remain unchanged, and the effect on site runoff from these minor improvements is de minimus.

There will be no fill or access improvements within any floodplains (FEMA and County regulated). Proposed transmission lines poles that are located in floodplains to be permitted through County and/or SEMSWA Floodplain Development Permits. See associated Floodplain Development Permit submittals for additional information.

The only permanent change in imperviousness for the transmission line will be the concrete-pier foundations for the structures. These have a maximum diameter of ten feet, resulting in a total permanent impervious area increase of approximately 8,090 square feet (0.19 acres) across the entire alignment. This minor increase does not warrant additional stormwater treatment under Arapahoe County criteria.

Existing Drainage Issues/Concerns - PSCo is not aware of any existing drainage issues or concerns with the properties along the Project.

Existing Facility Capacity - N/A

Water Quality Improvements

The extents of this project within Arapahoe County (inside and outside of SEMSWA's service area) are outside the MS4 permit area except for approximately 660 ft of transmission line between proposed structure 7159-691 and proposed structure 7159-690. There are no structures or disturbance within the area within the MS4 permit area within Arapahoe County.

The areas of this project within Arapahoe County (inside and outside of the SEMSWA's service area) outside of the MS4 permit area do have disturbance and structures, however, no water quality is required for the disturbance and impervious area outside of Arapahoe County's MS4 permit area. As such, no new post-construction water quality facilities are proposed for the transmission line the Project.

Engineer Certification

I hereby affirm that this memo for the drainage analysis of the Xcel Tline: Pathways Segment 5 Arapahoe County Build Project was prepared by me, or under my direct supervision, for PSCo, in general conformance with the provisions of the Arapahoe County Stormwater Management Manual and the

Mile High Flood District Criteria Manual, and approved variances and exceptions thereto. I understand that Arapahoe County does not and will not assume liability for drainage facilities designed by others.

Brian Brown

Registered Professional Engineer

State of Colorado No. 41644



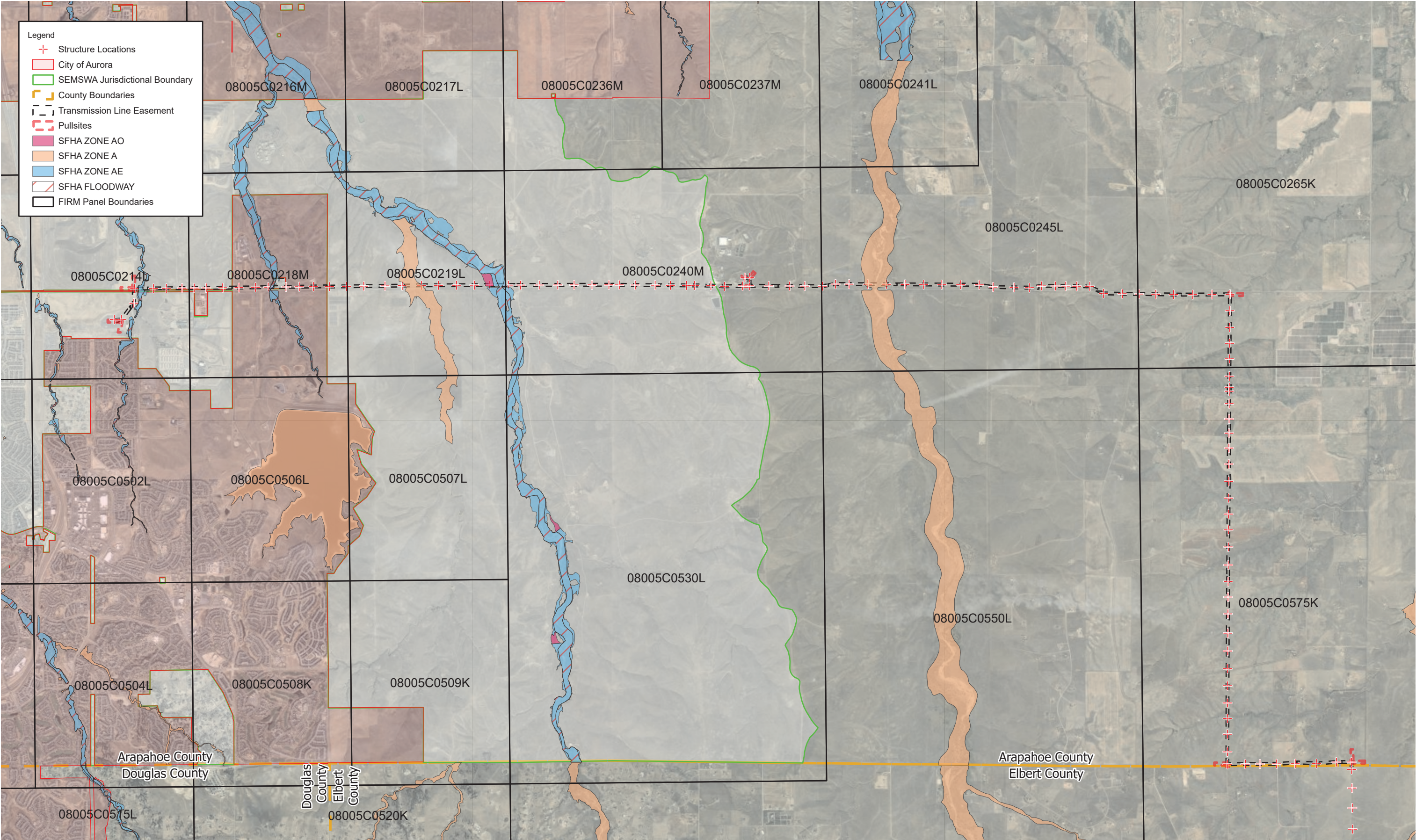
03/04/2026



Table 1. Summary Table

Jurisdiction	Project Area (STR #)	Owner Name	Approx. Completion Date	Disturbed Area (SF)	Reason for Exclusion	Excluded Impervious Area (AC)
Unincorporated Arapahoe County within SEMSWA Service Area	HMIL	PSCo	December 2026	173	Outside of County MS4 Permit Area	0.004
	702	PSCo		173		0.004
	701	Lowry Environmental and Trust Fund		142		0.003
	700	Waste Management of Colorado, Inc		190		0.004
	699-694	City and County of Denver		170		0.004
City of Aurora	693-688	City of Aurora		170	To be permitted through City of Aurora – N/A to County/SEMSWA permit.	0.004
Unincorporated Arapahoe County within SEMSWA Service Area	687-671	Colorado State Land Board		573	Outside of County MS4 Permit Area	0.013
	687	Colorado State Land Board		28		0.001
	670-687	Aurora Industrial Park LLC		111		0.003
	667-665	East Aurora 300/East Aurora Holdings		85		0.002
	664	Appogee Kazmira LLC		44		0.001
Unincorporated Arapahoe County outside of SEMSWA Service Area	663-661	Jann Schulte Holdings LLC		391		0.009
	660-658	Mustang Land Development LLC		112		0.003
	657	34501 Quincy LLC		38		0.001
	656-646	Stephen D Tebo		483		0.011
	645-643	Michael Wong; Aaron K Wong; et al.		152		0.003
	642-639	The Estate of Dyce Jodi, Sharon Rittgers		135		0.003
	638	Stephen D Tebo		64		0.001
	637-612	D & J Murphy Properties LTD		1257		0.029
	611-606	Murphy Family Partnership LTD		239		0.005
	605-598	Cheryl Ree Simmons Trust		355		0.008
	597-596	Dustin Mikel Wells		83		0.002
	595	Jonathan A Knowles, Toni J Knowles		44		0.001
	594	Jeffrey Steere, Vicki Steere		38		0.001
	593	Joshua H Decker, Holly C Decker		190		0.004

Figure 1. Vicinity Map

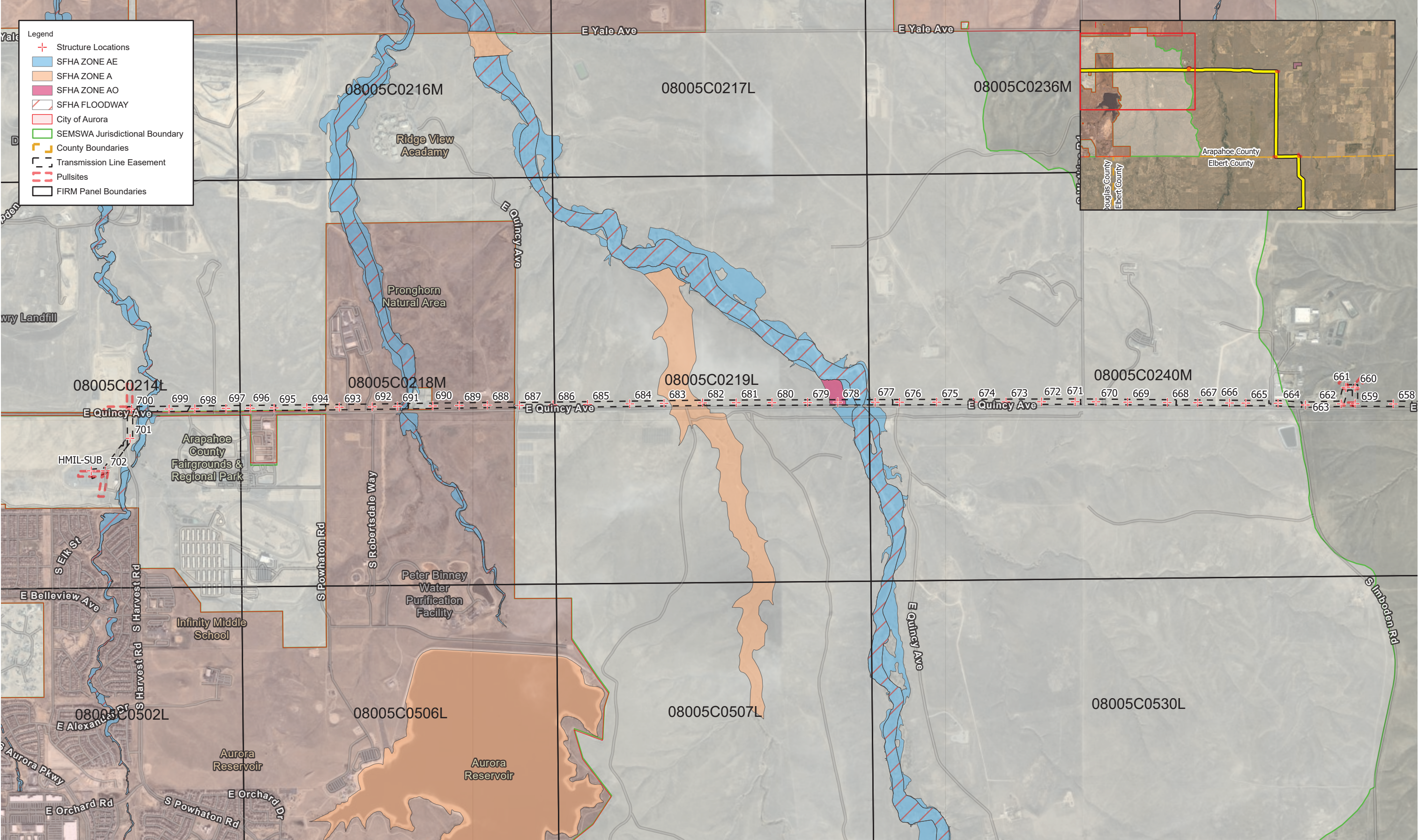


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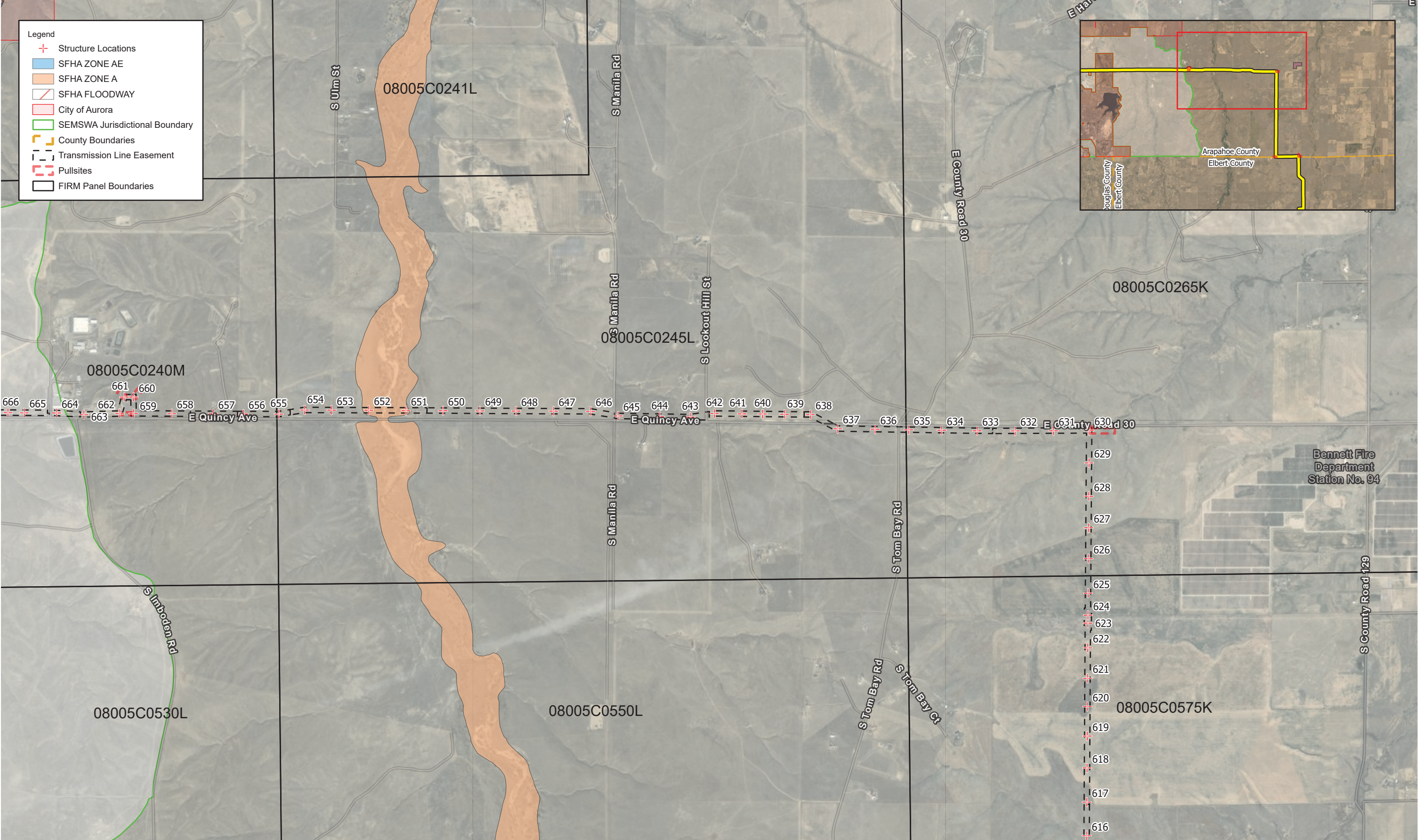
VICINITY MAP

Figure 2. Project Map



PROJECT MAP

Figure 2. Project Map



PROJECT MAP

Figure 2. Project Map



ARAPAHOE COUNTY CHECKLIST FOR DRAINAGE LETTER

Revised June 2018

Yes	No	N/A	Report Requirements
I. COVER			
			A. Name of Project/Site Name
			B. Address
			C. Owner Contact Information (Name, Address, Phone)
			D. Developer Contact Information (Name, Address, Phone)
			E. Engineer Contact Information (Name, Address, Phone)
			F. Submittal date and revision date(s) as applicable
			G. Case Number(s)
II. LETTER			
			A. Description of Property, including land use or zoning information
			B. Existing Site Conditions
			C. Description of Project/Work
			D. Total Site/Project Area in Acres
			E. Total Disturbed Area
			F. Total Proposed Impervious Area – include removed, replaced, and new impervious area (square feet and acres) and total change in impervious area.
			G. Project Impact on the Original Drainage Design and/or Intent of Approved Drainage Study. Discuss proposed changes to existing drainage patterns and flows. If drainage patterns are not changed, then discuss how they will be maintained. Provide supporting calculations as appropriate.
			H. Existing Drainage Issues and/or Concerns.
			I. Verify Existing Facility Capacity, if imperviousness increases, runoff patterns or flows have been changed.
			J. Water Quality Improvements, including Minimizing Directly Connected Impervious Area (MCDIA) and any improvements or made to reduce runoff impacts and enhance water quality
			K. Written statement that proposed design, grading, imperviousness, runoff totals and routing are in conformance with what was presented and approved in the current criteria, previous Phase III or Master Drainage Study
X. APPENDICES			
			Vicinity Map
			Relevant portions of approved drainage study and Master Drainage Plans for the project
			Updated land use, time of concentration and flow calculations, as necessary
			Design Drawings or Plans to support design changes