



## Engineering Plan Review Checklist

City Use Only

Application will not be accepted unless responsible engineer initials all items as submitted

initial or N/A		Accepted	N/A Initials
	Engineering Review Application		
	Development Plans, including plat if applicable, including but not limited to:		
	An AutoCad file of the subdivision plat with existing and proposed addresses shown and ties to two section monuments		
	Geotechnical Report, including minimum pavement section. If drainage system utilizes infiltration, the report must also include a section on percolation rates.		
	Storm drainage calculations (not on drawings) for pipe system, surface route and detention/retention ponds. Stamped and certified by a Utah licensed professional engineer.		
	A finalized title report of the affected parcel(s)		
	Record of Survey per UCLS Standards AND topographical map including all other relevant information		
	Long Term Stormwater Management Plan for Post-Construction stormwater controls of privately owned or privately maintained storm drain systems)		
	Record of Survey per UCLS Standards AND topographical map including all other relevant information		
	Letter of approved street names by Salt Lake County.		
	Traffic Impact Study (as required by City Engineer)		
	CLOMR/LOMR filed application for property in FEMA 100-year flood plain		
	Soils assessment (contamination) plan and report, or letter from EPA clearing property.		
	South Valley Sewer Permit for sanitary sewer connection.		
	UDOT permit for vehicular access and/or storm drain connection to Mountain View corridor.		
	Stream alteration permit from Utah Division of Water Rights if impacting any drainage areas within the vicinity of the project.		
	Permit from Salt Lake County Flood Control if impacting drainages.		
	Approval letters from outside agencies (SVSD, UDOT, canal company, etc.)		
	The design should include all Planning Commission requirements outlined in the approval letter.		



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**Plan Sets should comply with Section 3 of the Herriman City Development Standards, and should include:**

1	Title Sheet (project name, vicinity map, sheet index, etc.)		
2	Subdivision Plat		
3	General Notes		
4	Grading/Drainage Plan		
5	Erosion Control Plan		
6	Utility Plans: (Storm drain, culinary water, secondary water, sewer) dry utilities (see standards)		
7	Street Improvements		
8	Plan and Profile Sheet(s)		
9	Striping and Signage Plan		
10	Street Lighting Plan		
11	Landscape Plans		
12	Irrigation Plans		
13	Detail Sheets		

**All Sheets must contain:**

	Project name		
	Sheet Number and title		
	North arrow and drawing scale; scale should be a maximum of 1"=100' on plans and 1"=10' on profile sheets		
	Abbreviations and Legend		
	References to specific standard plans, as applicable		
	Construction plans stamped, signed and dated by a Utah-licensed professional engineer, Surveyor, Architect, or Landscape Architect		
	Space for city approval stamp (2"x2") on each page		

**Title Sheet:**

	Show the City's name on title sheet		
	Project name, address and type of development		
	Owner's name, address, and contact information		
	Contact information for all project team members		
	Vicinity map with north arrow.		
	Sheet index for all sheets and index figure		



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<b>Subdivision Plat:</b> (See City Standard Title Block)			
	Subdivision name, location and phase		
	Point of beginning and basis of bearing		
	Salt Lake County benchmark elevation relative to identified section corner.		
	Exterior boundary labeled to match legal description and closes to acceptable surveying standards		
	Storm drain ponds (detention or retention) with indication of dedication (Dedicated to Herriman City) if applicable		
	Open spaced shall be labeled (Dedicated to Herriman City) if applicable		
	Names of adjacent property owners		
	The distance and course to two (2) or more Section or quarter corners, including Township and Range, or to identified monuments within a recorded subdivision		
	Existing easements shown and labeled with Entry # or book and page		
	Easements created by the plat shown and labeled with sufficient information to identify the owner and the use of the easement		
	Existing and proposed easements, ROW, buffer zones and public spaces shown with references to Salt Lake County Recorder's book and page		
	Proposed streets, including coordinates, monuments, street names, width.		
	Indicate public or private.		
	For private streets/areas, a note shall be included "No City Maintenance on Private Streets"		
	Show temporary turn arounds		
	Show proposed lots, with dimensions, curve tables, square footage, and address.		
	Every lot shall have PUE around it. Typical 10' front and back, 5' sides (10' sides on corner lots)		
	FEMA Flood Zone delineation and Salt Lake County 100 year flood elevation limits		
	FIRM Insurance Zone and Map number		
	Survey monuments shown at all intersections, centers of cul-de-sacs, and points of centerline curvature where necessary to maintain line of sight		
	Show all 30% slope clearly labeled as non-buildable area		
<b>General Notes:</b>			
	Herriman City general notes incorporated by reference		
	Include Note: A Land Disturbance Permit must be obtained from Herriman City prior to disturbing any vegetation or moving any soil.		
	Required notes from utilities, power, gas, etc.		
<b>Grading/Drainage Plan:</b>			
	Stamped and certified by a Utah-licensed Professional Engineer		
	Existing contour lines (in gray scale) at one-foot (1') intervals		
	Proposed contour lines at one-foot (1') intervals		
	Salt Lake County benchmark elevation relative to identified section corner.		
	FEMA Flood Zone delineation and Salt Lake County 100 year flood elevation limits		
	Storm drain ponds (detention or retention) located at the lowest topographic point		
	Ponds must have 1 ft of freeboard, 4 ft. maximum water depth and a maximum of 3:1 slopes.		
	Ponds must meet other requirements of the Stormwater Management Standards		



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	Ponds to be owned by the city will have 2% running slope in the bottom, 10-ft. minimum radius corners, and a landscape plan approved by the planning department and parks department		
	For ponds or structures that will be maintained by the city, access must be provided according to the Stormwater Management Standards.		
	100-year flood overland route clearly shown terminating at storm water facility (usually the street)		
	Overland runoff route for stormwater at all sag points (shown with distinct arrows)		
	Lot grading arrows. 2% maximum slope in all directions in ADA parking areas, and an ADA accessible route from commercial buildings to the public ROW.		
	For site plans, the Engineering Department performs a review of the Engineering Grading Plan for basic ADA compliance. The Building Official will complete a more thorough review of ADA access at the building with the building permit. The developer is responsible to ensure the Engineering Site plan match any Architectural Site plan submitted with the building permit.		
	Curb and storm drain lines run at minimum of 0.5%		
	2 percent maximum slope along curb returns.		
	Storm drain system showing pipe sizes, clean-out boxes, combination boxes and catch basins. Boxes in public ROW or other city property must be self-cleaning.		
	Minimum 18" RCP for all public drainage systems, or private systems in public ROW or crossing public property.		
	Survey monuments shown at all intersections, centers of cul-de-sacs, and points of centerline curvature where necessary to maintain line of sight		
	Catch basins provided at all intersections and doublewide catch basins with two grates at sag points. Locate catch basins on lot lines where possible.		
	Separate details showing detention/retention ponds, sized orifice design, spillways, WQD, pollutant removal structural BMPs, lids, etc.		
	Cul-de-sacs graded to drain away from the bulb.		
	WQD and orifice for private system connections to public systems.		
<b>Erosion Control Plan:</b>			
	Erosion control plan, including SWPPP, BMPs etc.		
<b>Utility Plans:</b>			
	Stamped and signed by a Utah-licensed Professional Engineer		
	Survey monuments provided at all intersections, centers of cul-de-sacs, and points of centerline curvature where necessary to maintain line of sight		
	Utility locations don't conflict with other utilities or survey monuments.		
	Locations of existing power poles.		
	Sewer, storm drain and irrigation systems to the next manhole beyond subdivision boundary.		
	Existing and proposed street lights shown, including power sources, wiring and utility boxes. Street lights placed per Herriman City Standards		
	Dry utilities.		



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<b>Culinary Water Plans:</b>			
	Culinary meter box location: Center of lot, if drive way locations are known we will make exceptions		
	Residential service lines for culinary and secondary minimum of 1" IPS		
	Culinary mainline size: Minimum of 8"		
	Water lines 12" and smaller C900 or C909		
	Water lines larger than 12" ductile iron PC-350 or CL-52		
	Pipe bury depth on culinary distribution lines minimum of 4'		
	Pipe bury depth on culinary and secondary transmission lines minimum of 5'		
	Fittings must be called out		
	Hydrant spacing: 300' multifamily 500' single family		
	Hydrants on property lines		
	If hydrant is placed at end of waterline minimum 10' between valve and hydrant		
	Easements through private property		
	Combo air vac at high points on the water system: with vent pipe run to property line in park strip		
	Permanent blow offs: (truflo # TF500)		
	Gate valves 12" and smaller		
	Butterfly valves larger than 12"		
	Temporary blow offs: APWA 571		
	Sampling station 1 per 80 lots: (Eclipse # 88-SS)		
	Valves flanged to fittings: valve on each leg of fitting		
	Profile water line crossings: Minimum of 2' clearance		
	No fittings within 10' horizontally or 2' vertically of sewer for culinary water system		
	No culinary water lines allowed below sewer		
	Any subdivision crossing a zone line must have a PRV		
	PRV must be installed in park strip		
	Add all items pertaining to water system to the details sheet		
	Refer to water master plan to identify capital infrastructure		
<b>Secondary Water Plans:</b>			
	Secondary meter box location: 2' off of property line		
	Residential service lines for culinary and secondary minimum of 1" IPS		
	Secondary main line size: Minimum of 6"		
	Pipe bury depth on culinary and secondary transmission lines minimum of 5'		
	Pipe bury depth on secondary lines minimum of 3'		
	Lot size larger than 6500 sq. ft. for zones 4 and lower must have secondary water		
	Add all items pertaining to water system to the details sheet		
	Secondary vent pipe not required		
<b>Street Improvements Plan:</b>			
	Plan and Profile overview		
	Vertical alignment should minimize grade breaks at centerline and curb line.		
	More than 30 lots in a development required 2 entrances.		



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	Design speed to follow standard rule for local, collector, and arterial roads		
	Pavement design shall be based on ROW size		
	Asphalt design shall be based on the geotech report for the development.		
	Intersection Design		
	Street Intersections		
	Maximum grade at intersections		
	Horizontal curves through intersection		
	Offset intersections		
	Left turns		
	Private roadways		
	Curve data		
	Centerline radius		
	Temporary turnarounds		
	Variations or exceptions		
	AASHTO and MUTCD requirements		
	Street arrangement		
	Major streets		
	Local streets		
	Minor terminal streets		
	Turning area		
	Intersections		
	Standard street sections		
	Street grades		
	Alleys		
	Landings		
	Bridges		
	Driveways		
	Driveway locations		
	Driveway offsets		
	Street names and numbers		
	Lot numbering standard		
	Street trees		
	Sidewalks		
	Sidewalk ramps		
	Curb and gutter		
	Street signs		
<b>Plan and Profile Sheets:</b>			
	Stamped and signed by a Utah-licensed Professional Engineer		
	Vicinity map within subdivision for each sheet		
	Typical road sections per Herriman City Standards		
	1:30 max. horizontal scale, 1:10 max. vertical scale		
	Road profile section per geotech report or Herriman City Standard (min. 8"-UBC, 3"-asphalt on local streets, 10"-UBC, 4"-asphalt on all others)		
	Storm drain pipe size, type, length and slope between manholes.		



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	Storm drain boxes with rim and flow-line elevations. (Publicly maintained boxes must be self-cleaning)		
	Minimum 15" RCP within public ROW.		
	Catch basins provided at all intersections and doublewide catch basins with two grates at sag points.		
	Sewer and irrigation systems		
	Vertical alignment of street typing into existing improvements		
	Label TBC elevations at 100-ft. stations		
<b>Striping and Signage Plan:</b>			
	Street names and traffic control signage with references to MUTCD designations.		
	Pavement markings with references to MUTCD and FHWA "Standard Highway Signs" designation		
	Traffic calming on street segments longer than 1000' without a minimum 45 degree turn		
	Striping plan (collector and arterial roadways)		
<b>Street Lighting Plan:</b>			
	Existing and proposed street lights shown, including power sources, wiring and utility boxes.		
	Street lights placed per Herriman City Standards		
	Arterial and residential lights differentiated.		
<b>Landscaping Sheets:</b>			
	When required, landscaping plan sheets shall be included with the plan set. Plan shall meet city standard and complete requirements of planning commission.		
<b>Irrigation Sheets:</b>			
	When required, irrigation plan sheets shall be included with the plan set. Plan shall meet city standard and complete requirements of planning commission.		
<b>Detail Sheets:</b>			
	Custom details as applicable		

*I have personally reviewed this submittal and verify that it is complete and that all items have been addressed,*

\_\_\_\_\_  
Responsible Engineer

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Email address