



City of Moore – Garver Drainage Review Checklist



Project ID: Highland West CP1
 Review Round: Round 1
 Review Date: 09/13/23

Item Adequately Addressed?			Item Description	Comments	Designer Response	Response Date
Y	N	N/A				
General						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project name and location	Include location address	Address added to title block	9.25.23
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vicinity map			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Benchmark/Vertical and horizontal datum information	Please include	Benchmark data added to cover sheet and grading plans	9.25.23
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Legal description/survey			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site/Grading Plan	See notes regarding proposed grading plan	No notes found. Grading plan added	9.25.23
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Erosion Control Plan	No erosion control plan. Only reviewed for general site drainage elements		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	General notes and quantities	No quantities. Only reviewed for general site drainage elements		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standards	Only reviewed for general site drainage elements		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Section, township, range, ¼ section			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Label local streets			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Major drainageways and facilities shown			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Names of surrounding developments	Please annotate if applicable	Not applicable	9.25.23
Drainage Map						
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pre-development drainage area map			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Post-development drainage area map			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Effective FEMA SFHA limits provided and shown in plans	Include FIRMette in report	FIRMette added to report	9.25.23
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Offsite drainage shown and labeled			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Locate and label any existing storm sewer			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Finished floor elevation noted on all flood prone structures			
Drainage Report						
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Certification statement	Please include standard certification statement per design criteria	Certification added to cover sheet	9.25.23
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design rainfall used	Please note source in report	Source added to report	9.25.23



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<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Runoff calculations – Rational Method < 20 acres			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Runoff calculations – Unit hydrograph > 20 acres			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Longest flow path lengths	See notes on plan	No notes shown on plans. Min. 5 used	9.25.23
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Land use type			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Routing of off-site drainage flow through development			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proposed storm sewers and open drainageways including inlets, manholes, culverts, retaining walls, erosion control measures, and other appurtenances			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hydraulic analysis for all bridges, culverts, hydraulic structures, natural open channels, and improved open channels			
Detention						
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Development less than 1 acre or fee-in-lieu of detention has been permitted			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unit hydrograph for 2-year, 5-year, 10-year, 50-year, and 100-year storm events			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pre-project peak discharge			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Post-project peak discharge			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Outlet configuration	Orifice plate will operate as weir until submerged. Please update calculations accordingly.	Hydrocad automatically uses weir flow calculations for low head value situation	9.25.23
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inflow and outflow hydrographs			
Open Space Detention						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Freeboard (See Table 2: City of Moore Stormwater Management Criteria)	One foot of freeboard required	Adjusted to obtain 1'	9.25.23
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Emergency spillway – pass the difference between the 500-year and 100-year storm discharge with the required free board			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Erosion control measures at outlet and spillway			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grass slopes no steeper than 4:1, riprap no steeper than 2:1, minimum 2% slope in grassed facility	Slopes are too steep	Adjusted to 4:1	9.25.23



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<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trickle channel (longitudinal slope > 0.5%)			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maintenance Access			
<i>Parking Lot Detention</i>						
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Meets allowable ponding depth – 12 to 18 inches for 100-year flood and 9 inches for 5-year flood			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Minimum 18-inch diameter outlet for drop inlet			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maintenance access			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Flood hazard warning signs			
<i>Underground Detention</i>						
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Material designed for HS-20 loading			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Minimum 36-inch diameter pipe segments			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Minimum 0.25% slope pipe segments			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No permanent buildings or structures above detention facility			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Minimum 18-inch RCB outlet pipe(s)			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Minimum 30-inch diameter maintenance access ports			

Additional Comments: