Delaware County Engineer's Office (DCEO) Ditch Setback Review Checklist

Project Name: Submittal Items included with Plans – All references included in this checklist (such as Art. IV, Section 401, etc.) refer to the Delaware County Engineer's Design, Construction and Surveying Standards Manual, current edition, including the Supplemental Specifications to the Standards.		
□Yes □ No □ N/A	A CD or DVD containing PDFs of the plans, storm reports, etc shall also be provided with the plans for all submittals	
□Yes □ No □ N/A □Yes □ No □ N/A	Completed Ditch Setback plan review checklist provided Plan review fees (Typically no fees are required, only the submittal of the submission checklist). See http://www.co.delaware.oh.us/engineer/Review/Plan_Review_fee_schedule_cov	
□Yes □ No □ N/A	<u>er_page.pdf</u> for copy of fee submission checklist Existing Topographic Survey – Can be incorporated into the Plan Sheet(s)	
□Yes □ No □ N/A	Drainage and/or R/W Conveyance Instruments, Metes and Bounds Descriptions, and associated Exhibits provided (If applicable)?	
□Yes □ No □ N/A	Drainage and other supporting calculations (Typically drive pipe calculations based on design year storm - If applicable)	
□Yes □ No □ N/A	Copies of approved environmental documents, Corps of Engineers permits, and other permits submitted	
□Yes □ No □ N/A	Final Engineer's Estimate (for publicly inspected/maintained items only – See Art. IX and Supplemental Specifications for guidance regarding how to format the estimate)	
Note: The County shall contact the plans submitter if the above items have not been submitted with the plans. Failure to submit the items may result in delay or halting of the review process.		
Title Sheet		
□Yes □ No □ N/A	Name of Subdivision, Road Name and Road Number	
□Yes □ No □ N/A	Location by Range, Township, Quarter-Township, Farm Lot (U.S.M. Lands), and/or Virginia Military Survey Name and Number	
□Yes □ No □ N/A	North Arrow	
□Yes □ No □ N/A	A clearly legible location map showing the location of the project with respect to the nearest road intersection	
□Yes □ No □ N/A	Written and graphical (bar) scale	
□Yes □ No □ N/A	Name, address, and telephone number of the Design Engineer preparing the plan	
□Yes □ No □ N/A	Signature Line for the County Engineer	
□Yes □ No □ N/A	Signature Line for Del-Co Water (if applicable)	

□Yes □ No □ N/A	Applicable Delaware County Standard Drawings referenced by Drawing Number. City of Columbus and ODOT standard drawings may be referenced on
□Yes □ No □ N/A	a project-by-project basis. Applicable Delaware County Supplemental Specifications referenced by number. City of Columbus and ODOT supplemental specifications may be referenced on
□Yes □ No □ N/A	a project-by-project basis. Applicable specifications statement per Article IV, Section 402 H provided (Typically the City of Columbus CMS would be used. Check with DCEO for further guidance.)
□Yes □ No □ N/A □Yes □ No □ N/A	Index of Sheets Benchmark list (referenced to USGS datum), Elevations, Designations and Locations
□Yes □ No □ N/A □Yes □ No □ N/A □Yes □ No □ N/A	Owner/Developer's Name, Address, Telephone and Fax Numbers Utility Owner(s) Name, Address and Telephone and Fax Numbers County Engineer Disclaimer Paragraph: "The Delaware County Engineer's signature on this plan signifies only concurrence with the general purpose and location of the proposed improvements with respect to improvements within the right-of-way, storm water management, erosion and sediment control. All technical details remain the responsibility of the Professional Engineer who
□Yes □ No □ N/A	prepared and certified these plans." Consultant's Certification Paragraph: "This is to certify that good engineering practices have been utilized in the design of this project and that all of the minimum standards as delineated in the Delaware County Design, Construction and Surveying Standards Manual have been met, including those standards greater than minimum where, in my opinion, they are needed to protect the safety of the public. Any variances to the above standards are consistent with sound engineering practices and are not detrimental to the public safety and convenience. These variances have been listed herein and have been approved
☐Yes ☐ No ☐ N/A	by the Delaware County Engineer." Stamp and Signature of the Design Engineer licensed in the State of Ohio Site Data including Total Area and Total Impervious Area Change Order (revisions) table Variance Table
General	
□Yes □ No □ N/A	Existing drainage structures need modified or replaced as determined by County Engineer (Art. IV, Section 403 G)
□Yes □ No □ N/A	Show proof of adequate stopping sight distance (SSD) for all proposed driveways per ODOT Location and Design (L&D) Manual, Volume 1, current edition.
□Yes □ No □ N/A	Have all trees and obstructions within the R/W and sight distance triangle been shown (and designated to be removed) on the SSD diagram?
□Yes □ No □ N/A	Show the Clear Zone Setback line for projects located on County and Township Roads according to ODOT L&D Manual, Volume 1, current edition.
□Yes □ No □ N/A	Indicated total project acreage disturbed
□Yes □ No □ N/A	A DESC permit is required before final approval (See Article XII)
□Yes □ No □ N/A	Reference provided to DCEO Standard Drawing DCED-R2130 – Required on Title Sheet.
□Yes □ No □ N/A	Scales of Plan, Profile and Cross-Section Views comply with Article IV, Section 403?
□Yes □ No □ N/A	General Notes (See Supplemental Specifications for notes)
June 2010	Ditch Setback – 2

□Yes □ No □ N/A	All required environmental documents, Army Corps permits and ODNR permits submitted before final plan approval (Article IV, Section 401 A).
□Yes □ No □ N/A	If final plan resubmittal, written response included that addresses previous comments and identifies additions/deletions made to plans since previous
	submittal (Article IV, Section 401 A).
Plan View	
□Yes □ No □ N/A	Existing Pavement (dashed lines)
□Yes □ No □ N/A	Existing And Proposed Right-Of-Way (R/W). See Supplemental Specifications for proposed R/W widths.
□Yes □ No □ N/A	Existing and Proposed Utilities (Surface and Subsurface), including applicable easements shown?
□Yes □ No □ N/A	Utility relocation in compliance with County Engineer's Utilities Policy for all utilities (if applicable – site specific)? Additional utility easements may be required.
□Yes □ No □ N/A	Have drainage easements for the ditch setback been addressed?
□Yes □ No □ N/A	Existing and Proposed Surface and Subsurface Drainage Features (Drainage ways, Tiles, Culverts, Etc.)
□Yes □ No □ N/A	Benchmark Location, Elevation, and Description (Specify Datum)
□Yes □ No □ N/A	Any part of site within the 100 yr floodplain? Indicate on plans.
□Yes □ No □ N/A	Show and Label any FEMA designated Floodway and 100-year Flood Plain.
□Yes □ No □ N/A	Floodway Note provided?
□Yes □ No □ N/A	Proposed Subdivision and/or Lot Boundaries
□Yes □ No □ N/A	Other Physical Objects (Trees, Fences, Signs, Guardrail, Mailbox Posts, Existing Property Corner Monuments)
□Yes □ No □ N/A	Trees or Landscape Features in R/W? (Not acceptable)
□Yes □ No □ N/A	Erosion and Sedimentation Control Devices
□Yes □ No □ N/A	Show location of first structure downstream
□Yes □ No □ N/A	Is the minimum ditch gradient 0.4% preferred (0.24% minimum)?
\square Yes \square No \square N/A	North Arrow and Scale
\square Yes \square No \square N/A	Size, Slope, Length, and Type of Proposed and Existing Culverts [maybe done
□Yes □ No □ N/A	with profiles]
Lifes Lino Lin/A	Proper design year storm used for Drive Pipes (10-year)? Have drive pipes been sized for all drives and shown on the plans? County standards used to compute design year flow (See Art. IX)
□Yes □ No □ N/A	Existing and/or Proposed Driveway Locations shown?
$\Box Yes \Box No \Box N/A$	All proposed drive pipes shall be installed with the ditch and shoulder
LIES LINO LIN/A	improvements.
□Yes □ No □ N/A	Typical Pavement Section (within R/W) provided? See Table 801 for required pavement buildup.
□Yes □ No □ N/A	Driveway width (within R/W) compliant with Table 802?
\Box Yes \Box No \Box N/A	Drive profile per Art. VIII, Section 802 A?
□Yes □ No □ N/A	Spot elevations (minimum of 2, 3 preferred) for area of the proposed driveway
	radius.
\square Yes \square No \square N/A	Label Adjacent Property Names, Lot Numbers and Road Names
□Yes □ No □ N/A	Ditch Direction of Flow and Slope shown?
Profile	
□Yes □ No □ N/A	Elevation of Edge of Pavement at 50-foot (min.) intervals
\square Yes \square No \square N/A	Existing and Proposed Ditch Flowline Elevations at 50-foot (min.) intervals
June 2010	Ditch Setback – 3

\square Yes \square No \square N/A	Proof of an Adequate Storm Outlet shown?
□Yes □ No □ N/A	Show flowline elevation of first structure downstream
□Yes □ No □ N/A	Existing Ground Elevation at Proposed Ditch Flowline shown?
□Yes □ No □ N/A	Any Existing and/or Proposed Surface and Subsurface Drainage
	Structures shown?
	Proposed Tile Must Be Shown To a Point of an Adequate Outlet)
□Yes □ No □ N/A	Erosion and Sedimentation Control Devices shown?
Cross-Sections	
□Yes □ No □ N/A	Edge of Pavement shown?
□Yes □ No □ N/A	Right-Of-Way (Existing and Proposed) shown?
□Yes □ No □ N/A	Cross-section locations, elevations, etc. provided per Art. IV, Section 403 B., 4? Existing and proposed ground elevations shown (pictorially) and complies with
	existing conditions?
□Yes □ No □ N/A	Proper scale used for cross section (Art. IV)?
□Yes □ No □ N/A	No more than four cross sections per plan sheet.
□Yes □ No □ N/A	Is the minimum ditch gradient 0.4% preferred (0.24% minimum)?
□Yes □ No □ N/A	Foreslope rate (4:1 max.), backslope rate (3:1 max.), and ditch bottom width meet Delaware County requirements (See Standard Drawing DCED-R2130)? A 4:1 maximum backslope is desirable in lawn areas
□Yes □ No □ N/A	Ditch flowline elevations provided? (Art. IV)
□Yes □ No □ N/A	Existing and Proposed Utilities (Surface and Subsurface)
□Yes □ No □ N/A	Existing and/or Proposed Surface and Subsurface Drainage Structures
Erosion & Sedimen	t Control Plan
□Yes □ No □ N/A	Inlet Protection Locations
□Yes □ No □ N/A	Silt Fence Locations
□Yes □ No □ N/A	Check Dam Locations
□Yes □ No □ N/A	General Notes (See Supplemental Specifications for notes)
□Yes □ No □ N/A	Erosion Control Standard Details
Permits	
□Yes □ No □ N/A	Permit Fees paid? Plans must be forwarded to DCEO Permit Department for required permits (i.e. Driveway, etc.). See Art. IV, Section 404.
□Yes □ No □ N/A	Has a DESC permit been obtained? (Required)

Comment Disclaimer:

The County Engineer Reserves The Right To Make Any Additional Comments At Any Time Up To The Actual Approval Of This Project. See the Delaware County Standards for other items not addressed on this list.

For County Engine	er Use only	
□Yes □ No □ N/A	·	
□Yes □ No □ N/A		
Comments:		
□Approved □ Disap	proved	
Reviewed by:	Date:	
Write letter to:		