

## TAC PLAN REVIEW CHECKLIST

<b>DEVELOPMENT:</b>			
T.A.C. DATE:	PLAN TYPE: Development   Construction	NO. OF PAGES:	
DESIGN FIRM:			
CONTACT:			
DEVELOPMENT FIRM:			
CONTACT:			
REVIEWED BY:			DATE:

		YES	NO	NA	Comments Attached
<b>GENERAL / COVER SHEET</b>					
A.01	Project name or title.				
A.02	Site Location Map				
A.03	Soilsmap.				
A.04	Index.				
A.05	Legend (may be on each sheet).				
A.06	Design firm name, address, email, phone & fax number.				
A.07	Certified by PE or PLS				
A.08	Developer's name, mailing address, email, phone & fax number.				
A.09	Utility and agencies' contact, phone, fax & address				
A.10	Inventory table of public infrastructure (road, sidewalk, sanitary & storm sewer, etc.)				
A.11	Compliance and full responsibility statement				
<b>DEVELOPMENT PLAN / ALTA SURVEY</b>					
B.01	North arrow, legend, scale, certified by PE/PLS				
B.02	Topographic info.				
B.03	Lot numbers.				
B.04	Lot dimensions.				
B.05	Location/Identify Floodway/flood fringe (if applicable)				
B.06	Location/Identify Wetlands (if applicable)				
B.07	Location of existing regulated drains & easements.				
B.08	Proposed regulated drain easements.				
B.09	Existing utilities (storm, sanitary, elec., tele, etc.)				
B.10	Proposed sanitary sewer				
B.11	Proposed storm sewer				
B.12	Proposed roadway				
B.13	Proposed water main				
B.14	Easements (existing and proposed; reference instrument numbers)				
B.15	Road names.				
B.16	Right-of-way lines & dimensions noted (improvement as required).				
B.17	Street widths.				
B.18	Building pad elevations. Minimum finished floor elevation shall be shown on proposed lots.				
B.19	Bldg. lowest entry elevation facing roadway 15" (1.25') above lowest curb elevation adjacent to the property.				
B.20	Number structures (include data table).				
B.21	Note open-ended inlets for debris / animal guard to be installed.				

		YES	NO	NA	Comments Attached
B.22	Inverts & top of casting elevations. (These may be shown on a storm sewer structure data table.)				
B.23	Detention area.				
B.24	Normal pool, 2 year, 10 year, 100-year & bottom elevation.				
B.25	Show top of bank elevation. (2' of Freebord)				
B.26	Pond Easement.				
B.27	Extend outlet pipes all the way to the pond or creek.				
B.28	Is stormwater discharge point adequate, structural and size, for outletting. (i.e. - culvert, other storm system, channel and/or receiving water.)				
B.29	No underwater discharge.				
B.30	Swale location, flow directions arrows and slope.				
B.31	6" SSD in swales.				
B.32	Surface water travel distance not to exceed 400' (consider inlet spacing based on width of spread for curb inles).				
B.33	SSD stub locations to each lot.				
B.34	SSDs outletting into pond or creek must be installed with a section of CMP with animal guard installed.				
B.35	Receiving water 100 year elevation.				
B.36	Proposed fill limits and elevations.				
B.37	Drainage improvements along roadway.				
B.38	Roadside ditch may not be used as an outlet.				
B.39	Street runoff from project is not to drain onto the exterior roadway.				
B.40	Spot elevations at drainage break.				
B.41	Existing culvert pipes under the roadway. (Length, inverts, condition)				
B.42	Upstream offsite acreage noted. (May pass through site).				
B.43	Multi-use path & sidewalks				
B.44	Sanitary sewer stubbed off to be accessible to nearby un-serviced properties.				
B.45	Show adjacent landowners with Instr. #, Acreage, current property use				
B.46	Location of any section corners.				
<b>EROSION CONTROL / MS4 COMPLIANCE</b>					
C.01	Temporary seeding locations w/ summary table				
C.02	Permanent seeding locations w/ summary table				
C.03	Inlet protection				
C.04	Perimeter EC protection				
C.05	Stormwater outlet protection				
C.07	Legend.				
C.08	Implementation and maintenance procedure.				
C.09	Silt fence installation detail.				
C.10	Soil stockpile locations.				
C.11	Note stating that additional erosion control measure may be required in the field by the Inspector.				
C.12	Approval from jurisdictional MS4				
<b>ROAD PLAN AND PROFILE SHEETS</b>					
D.01	Proposed grade and slope and curve data; and existing grade in profile				
D.02	Survey control for stationing. Baseline stationing with bearing and distance and curve data. (Comply w/ UDO & Nble Std; Rmin=225'; min seperation between reverse curves, intersection offsets)				
D.03	North arrow, legend, scale, certified by PE/PLS				
D.04	R/W, easements (dimension & instrument #)				
D.05	Call out stationing of intersecting road centerlines.				
D.06	Identify stationing of inlets in profile.				
D.07	Note all utility crossings, include type, size, elevation, and material				
D.08	Curve data & compliance with UDO & Noblesville Standards				

		YES	NO	NA	Comments Attached
D.09	Plan and cross-sections every 50' showing improvements along adjacent Thoroughfare Roads (roadway and ditch)				
D.10	Secured off-site R/W for road improvements (Instrument #)				
D.11	Sight triangles and sight distance analysis at all intersections				
D.12	ADA compliant curb ramps at public intersections				
D.13	Horizontal control for roadway matches plat				
<b>INTERSECTION DETAIL SHEETS</b>					
E.01	North arrow, legend, scale, certified by PE/PLS				
E.02	Spot elevations on centerline and flowline				
E.03	Radii of curbs				
E.04	Flow arrows and slope				
E.05	Appropriate intersection line of sight				
<b>SANITARY SEWER PLAN &amp; PROFILE SHEETS</b>					
F.01	Plan and profile of all pipe runs (show utility and pipe crossings)				
F.02	North arrow, legend, scale, certified by PE/PLS				
F.03	R/W, easements (dimension & instrument #)				
F.04	Elevations of castings and inverts				
F.05	Pipe size, length, slope & type of City Standard material used.				
F.06	Structure numbers.				
F.07	Specify type of inlets, manholes and outlets.				
F.08	Locations of other utilities, including curb underdrains. (Plan & Profile)				
F.09	Approval from IDEM for Construction of Sanitary Sewer				
F.10	Appropriate separation from Water and Storm Sewer				
F.11	Secured required off-site easements (Instrument #)				
F.12	Sanitary sewer stubbed off to be accessible to nearby un-serviced properties.				
F.13	Sight triangles and sight distance analysis at all intersections				
F.14	Plat shows appropriate easements (alignment and size)				
<b>STORM SEWER PLAN &amp; PROFILE SHEETS</b>					
G.01	Plan and profile of all pipe runs (show utility and pipe crossings)				
G.02	North arrow, legend, scale, certified by PE/PLS				
G.03	R/W, easements (dimension & instrument #)				
G.04	Elevations of castings, inlets, and inverts				
G.05	Pipe size, length, slope & type of City Standard material used.				
G.06	Number structures.				
G.07	Specify type of inlets, manholes and outlets.				
G.08	Outlet detail, including control structure.				
G.09	Downstream offsite conditions / improvements.				
G.10	Locations of other utilities, including curb underdrains. (Plan & Profile)				
G.11	Underdrain table (if required)				
G.12	Secured required off-site easements (Instrument #)				
G.13	Plat shows appropriate easements (alignment and size)				
G.14	Stormwater outlet protection				
<b>LIGHTING PLAN</b>					
H.01	Location of street lighting				
H.02	Conduit plans and service point location				
<b>TRAFFIC CONTROL PLAN</b>					
I.01	Traffic control signage, pavement marking, signals, etc.				
<b>SECONDARY PLAT</b>					
J.01	Project name.				
J.02	Engineering firm.				
J.03	Surveyor's stamp.				
J.04	Legal description.				
J.05	North arrow.				
J.06	Dimensions				

		YES	NO	NA	Comments Attached
J.07	Horizontal control				
J.08	Rights-of-way and Easements. (comply with Masterplans & Std)				
<b>DRAINAGE CALCULATIONS AND REPORT</b>					
K.01	Report certified by licensed design consultant				
K.02	Compliance and full responsibility statement				
K.03	Narative & project purpose with existing and proposed land use				
K.04	Analysis procedure				
K.05	Statement of Assumptions and/or special conditions (if applicable)				
K.06	Soils analysis				
K.07	Existing Conditions (including off-site drainage entering the site, drainage pattern, runoff volume and rate)				
K.08	Proposed conditions (including off-site considerations, drainage pattern, runoff volume and rate for each basin)				
K.09	Summary table (each basin) Table 102-1				
K.10	Release rate complies with requirements				
K.11	Detail of control structure				
K.12	Evaluation of discharge point, structural and capacity (photo, report, note restrictions)				
K.13	Summary of all permits that are required				
K.14	Calculations for existing runoff volume and rate				
K.15	Calculations for proposed runoff volume and rate				
K.16	Calculations and Analysis for culverts				
K.17	Hydrograph of detention storage structure				
K.18	Calculations of detention storage structure volume and/or capacity				
K.19	Calculations for time of concentrations (each basin) & method used				
K.20	Show runoff coefficients or runoff curve number (each basin)				
K.21	Calculations for sizing storm sewer system				
K.22	Width of spread calculations for inlet spacing				
K.23	Calculation and exhibit of hydraulic grade line for 10 year and 100 year event (HGL must stay within system)				
K.24	Exhibit showing existing topo and basin(s), including off-site entering site. (Contours, Tc, Area, C or CN for each basin)				
K.25	Exhibit showing proposed topo and basin(s), including off-site entering site. (Pond 2 yr, 10 yr, 100 yr state elevations, Contours, Tc, Area, C or CN, flow paths for each basin)				
K.26	Report data is consistant with actual designed storm system				
<u>MS4 reviews water quality and SWPPP</u>					

**Notes:**

1. Appropriate Scale: 10, 20, 30, 40, 50, 60
2. All plans shall be signed and stamped by design professional, include north arrow, and show scale.

**DEPARTMENT OF ENGINEERINGS REQUIREMENTS ARE NOT LIMITED BY ABOVE MENTIONED CHECKLIST AND NOTES. ADDITIONAL INFORMATION, DRAWINGS, ETC. CAN BE REQUIRED BY DEPARTMENT OF ENGINEERING BEFORE APPROVAL AND ACCEPTANCE OF SUBMITTED DRAWINGS AND RELATED MATERIALS. THE SUBMITTAL SHALL BE IN FULL COMPLIANCE WITH MOST RECENT VERSION OF THE FOLLOWING DOCUMENTS AND/OR DRAWINGS: NOBLESVILLE CONSTRUCTION STANDARD, UNIFIED DEVELOPMENT ORDINANCE, NOBLESVILLE ALTERNATIVE TRANSPORTATION PLAN (NAT) MASTER PLAN AND THE NOBLESVILLE THOROUGHFARE PLAN.**