

Statement of Acknowledgement & Signatures

I, the applicant/authorized agent or owner of the property on this application, hereby certify that I have reviewed the Engineering Plan Submittal Process Packet, the Ellis County Quality Growth Initiatives—Volume I, II, and III and the Ellis County Septic Order. With this application, I state this request meets any deed restrictions on this property. I am aware that these regulations require all roads, streets, and other improvements within the subdivision are to be designed according to the specifications outlined. **I will be responsible for all public drainage and repairs** until the County Commissioners' Court accepts the above-referenced subdivision. I also agree that Ellis County is authorized and permitted to provide information contained within this application, including the email address, to the public and in response to a Public Information Request.

I hereby certify that I am the owner of the property or authorized agent representing the owner and attest that the information provided within this application is true and correct. This application and permit shall not be valid and may be revoked if any false statements are made within this application or if it conflicts with any existing deed restrictions or other applicable local, state, or federal regulations.

Applicant/Authorized Agent Printed Name

Applicant/Authorized Agent Signature

Date

Owner Printed Name

Owner Signature

Date

Civil Plan Checklist

Requirements for Initial Site Plan

- One site map showing the property location, existing roads, proposed subdivision lot lines, lot sizes, and road frontage lengths.
- Show any existing drainage structures / facilities (ponds, culverts, dams, etc.).
- Any other necessary information for a complete engineering review.

Requirements for All Civil Plan Sheets

- Title block with engineering firm information, registration number, engineer's seal, sheet title, and page numbers clearly shown.
- A minimum of two benchmarks are required on all pertinent sheets.
- North Arrow and scale clearly shown on each plan sheet.
- Legend (relevant to each sheet) showing all special symbols, line types and hatch used.
- Street names labeled on all existing, proposed, and future streets.
- Lot & Block numbers and/or ownership info shown for all lots.
- Caution notes shown when working next to any existing utilities (public and franchise).

Order Of Sheets

1. Cover Sheet
2. Approved Preliminary Plat
3. Erosion Control Plan
4. Grading Plan
5. Existing Drainage Area Map
6. Proposed Drainage Plans
7. Detention/Retention Pond Plan
8. Water Plan
9. Paving Plan
10. Signage Plan
11. Traffic Control Plan (if required)
12. Standard Construction Details

Civil Plan Checklist Continued

Erosion Control Plan:

- Existing and proposed contours clearly shown/labeled.
- Existing and proposed channels shown.
- List the total disturbed acreage including offsite and delineate limits of construction.
- Appropriate BMP's used and identified.
- BMP details provided, should be per current NCTCOG/iSWM standards dated April 2010 or later.
- Stockpile area and batch plant areas shown and labeled.
- Areas to be sodded or seeded shown and specified with permanent perennial vegetation.
- Areas of permanent erosion control (other than vegetation) clearly shown.

Grading Plan:

- Both onsite and offsite existing/proposed contours shown clearly labeled.
- Date and name of firm who prepared geotechnical report with corresponding note stating: "Work shall be done in accordance with the Geotechnical Report by ____, dated ____."
- Drainage clarified by flow arrows, high points, sags, ridges, and valley gutters.
- Minimum finished floor elevations shown adjacent to floodplains, ponds, creeks/channels, etc.
- Cross-sections and flow data for all swales and open channels provided.
- Typical lot grading details.

Existing Drainage Area Map:

- Existing contours clearly shown for entire drainage basin, both onsite and offsite.
- Drainage areas delineated and labeled.
- Flow arrows for surface drainage shown.
- Existing drainage structures / facilities shown with existing Q25, Q100, Qcap, V25, and V100.
- Outfall designation labels shown.
- Existing drainage easements shown and labeled.
- Hydrologic Peak Runoff Rate Computation Table shown rounded to two decimal places.
- Time of concentration and weighted runoff coefficient calculations shown as needed.
- Existing FEMA 100-yr floodplain delineated.
- Table showing area, runoff coefficient, rainfall intensity, time of conc., Q5, Q25 & Q100 for each outfall.

Proposed Drainage Area Plan:

- Existing contours clearly shown for entire drainage basin, both onsite and offsite.
- Drainage areas and sub areas delineated and labeled.
- Flow arrows for surface drainage shown.
- Existing and proposed channels shown with hydrologic and hydraulic calculations.
- Outfall designation labels shown with proposed Q5, Q10, Q25, Q100, Qcap, and V100.
- Detention pond shown and labeled drainage easements shown and labeled.
- Hydrologic Peak Runoff Rate Computation Table shown rounded to two decimal places.
- Time of concentration and weighted runoff coefficient calculations shown as needed.
- List the total site impervious area (ft² of all paving, roof areas, etc.) – Commercial Projects.
- FEMA 100-yr floodplain, and Fully Developed 100-yr floodplain delineated (if required).
- Driveway culvert sizes for each proposed lot (minimum 18" CMP or RCP).
- Flood Prevention Sites (NRCS structures) and easements as needed.
- Table showing area, runoff coefficient, rainfall intensity, time of conc., Q5, Q25 & Q100 for each outfall.
- A summary table showing Q100 for existing, developed with detention and bypass to each outfall.

Civil Plan Checklist Continued

Detention/Retention Pond Design & Hydraulic Calculations:

- Detention/retention pond design calculations shown, method used specified.
- Provide pond volume sizing calculations and/or computation table.
- Provide stage-discharge table and/or curve information.
- Provide weir and/or orifice sizing calculations for outfall structure.
- Cross-section of pond including side slopes, normal pool elevation (if applicable), show 5yr, 10yr, 25yr, and 100yr WSE.
- Detail of pond outfall structure showing all elevations, as necessary.
- Overflow spillway location and design information provided (as needed).
- Show and label all existing/proposed utilities and easements.

Storm Drain Plan (As Needed):

Plan View:

- Show and label all existing and proposed utilities.
- Dimension location/spacing of utilities.
- Label inlet type, inlet block-outs, size, paving station, and top of curb elevation at a minimum.
- Label type and size of existing/proposed structures (i.e. headwalls, manholes/junction boxes).
- Label type, size, and dimensions of all permanent outfall erosion protection.
- Show centerline stationing for pipe with PC & PT stations and curve data.
- Label centerline stations for lateral connections, manhole & junction box locations, pipe size changes, head walls, and future stub out connections.
- 100-yr gutter flows and bypass shown at each inlet along public streets and fire lanes.
- FEMA 100-yr floodplain shown.
- Provide applicable construction details for all drainage structures.

Profile View:

- Existing and proposed ground line at centerline of pipe shown and labeled correctly.
- Show all hydraulic data including design flow, full flow capacity, friction slope, velocity, and velocity head. For partial flow conditions show design flow, full flow capacity, normal depth, normal velocity, and velocity head.
- Label station and flowline elevation information for all structures, crossings, laterals, etc.
- Label flowlines at every 50-foot station.
- Indicate length, type/class, slope, and size of all storm pipes.
- Show and label 100-yr and/or 10-yr HGL, label HGL elevations at all junctions.
- All utility crossings and parallel sewer lines shown in profile.
- 100-yr WSE shown at outfall for ponds, creeks, and channels.
- Open channels shall also include a typical cross section with all hydraulic data.

Water Plan:

- Shall be approved by water provider.
- Show water line notes.
- Show fire hydrant locations.
- If symbols used in plan, include appropriate legend for clarification.

Paving Plan:

Plan View:

- For all new roads, a site-specific geotechnical evaluation and concrete mix design submitted with plans.
- Typical road section details shown (fire lane, parking areas, streets, subgrade, etc.).
- For roads, centerline stationing at every 100', PC's, PT's, and curve data labeled.
- Show cul-de-sac radii (ROW and paved portion).

Profile View:

- Existing ground line for left, right, and center of right-of-way shown.
- Pavement elevations labeled at every 50-foot stations.
- Vertical Curve stationing and elevations including PVC, PVI, PVT, crest/sag location, curve length, algebraic grade difference, and "K" values shown at a minimum.
- Road grades shown to the nearest 0.01'.
- Show "compacted fill" callout/note for all areas of fill.
- Show left and right ditch flowlines (one profile will suffice if they are the same)
- Show road crossing culverts.

Signage Plan (See Next Page for Additional Details):

- Show all stop signs and traffic related signage locations.
- Verification of fire hydrant placement relative to stop signs (3' clear zone).
- If symbols used in plan, include appropriate legend for clarification.

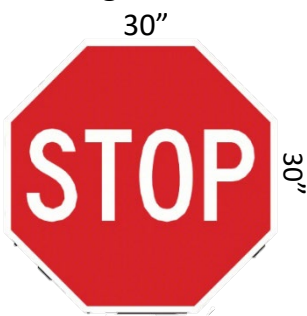
Traffic Control Plan (As Needed):

- Design site specific traffic control plan, TxDOT standard alone is inadequate.
- Indicate posted speed limit or design speed.
- Show all sign designation, sign graphic, and sign size.
- Show channelization device type, locations, and spacing.
- Show all traffic barricades and indicate type.
- Show all detour routes and detour signage.
- Show flagger locations, where applicable.
- Show message boards with text for two phases.
- Show flashing arrow boards, where applicable.
- If symbols used in plan, include appropriate legend for clarification.

Signage Plan Details:

- ❑ Street signs shall be comprised of 6-inch-tall blades with 4-inch-high letters as shown below with first letter capitalized.
- ❑ Confirm with the precinct office for background color of street signs.
- ❑ All signs shall have a High Intensity Prismatic Sheeting (meeting middle grade performance standards and ASTM D4956 Type IV) PLUS UV Overlay. This reflective sheeting uses polycarbonate cube-corner technology and is often used for reflective traffic and road signs. ← insert that in the signage plan details.
- ❑ Signpost shall be 1 3/4" x 10 feet (14 Ga) Galv/Per Post—Telespar with a 3-foot anchor that goes into the ground.
- ❑ Children at Play signs shall be installed at each entrance.
- ❑ Weight Limit signs shall be installed at each entrance and at various points within the subdivision (30"x24").
- ❑ Speed Limit signs shall be installed at each entrance and at various points within the subdivision (24"x18"). Speed limit should be 30mph.
- ❑ All signs shall meet the sizes below. Include each detail in the signage plan.
- ❑ For other sign details, please contact the precinct office.
- ❑ All signs and installations shall conform to the latest version of Texas MUTCD.

STOP signs: 30" size



Street name signs: street signs can be longer due to the length of street name. Letters are 4" and HIP (reflective) Double Sided flat. First letters capitalized.



Arrow signs: if needed

