

COVER PAGE

- ___ n/a Project Name
- __ n/a Vicinity Map
- ____ n/a Developer's Contact Information
- ____ n/a Design Engineer's Contact Information
- ___ n/a Design Engineer's Signature & Seal
- ____ n/a List of Drawings
- ____ n/a Utility Contact Information

STREETS (Technical Specifications ST-1)

- ____ n/a Overview sheet of entire project
- ___ n/a All exposed concrete shall be KCMMB 4K mix
- ____ n/a Plan and profile
 - ___ n/a All street sections included
 - ____ n/a Appropriate stationing and control points
- ____ n/a Intersection details sheet
 - ____ n/a ADA- accessible ramp design at each location (i.e., not generic details)
 - ___ n/a ADA accessible ramp standard details
- ___ n/a Pavement
 - ___ n/a Section view of pavement design
 - ____ n/a Curb/gutter details
 - ___ n/a Signage plan included

- ____ n/a End of road markers at appropriate locations
- ____ n/a City standard details for signs
- ____ n/a Grading shown within right-of-way
- ____ n/a Traffic control plan specific to the project

STORMWATER (Technical Specifications STM-1)

- ___ n/a Overview sheet of entire project
- ____n/a All exposed concrete shall be KCMMB 4K mix
- ___ n/a Plan and profile
 - ____ n/a Appropriate call-outs on the plan view showing type of storm inlet to be constructed, with appropriate reference to detail sheet number
 - _____ n/a Hydraulic grade line of design storm shown in profile view
 - ____ n/a Flowline elevations called-out on storm structures
- ___ n/a Detention/Retention basin
 - ___ n/a Detention basin design, including outlet structure details, anti-clogging Measures
 - ____n/a 40-hour extended detention within the detention basin
 - ___ n/a Calculations for the 40-hour extended detention contained within the detention report
 - ____n/a Retention basin design, including emergency drawdown measures
- ___ n/a Master Drainage Plan (MDP)
 - ___ n/a MDP included
 - ____ n/a Contour lines shown on the MDP at an appropriate contour interval
 - ____ n/a Drainage flow arrows on MDP as appropriate
 - ____ n/a Stream buffers shown on MDP, plans, and Plat
 - ___ n/a Regulatory floodplain limits shown on MDP or plans
 - ____ n/a Swales and diversion berms shown on MDP
 - ____ n/a Minimum Building Opening Elevations (MBOEs) shown on the MDP
 - ____ n/a MBOEs set at a minimum of 2.0 feet above the 100-year water surface Elevation
 - ___ n/a Elevation of the 100-year water surface elevation within designated Swales
 - ____ n/a Emergency overflow swales shown on the MDP
 - ____ n/a Existing and finish lot corner elevations shown on the MDP

- ___ n/a Basement type shown on the MDP (standard, daylight, walk-out or walkout)
- ___ n/a Stormwater Design
 - ____ n/a Stormwater conveyance system calculations provided within the plans (i.e., not a bound report)
 - ____ n/a n/a Sufficient number of storm inlets in rear yards to capture no more than 2 acres
 - ____ n/a Elevation of 100-year water surface elevation within designated swales
 - ___ n/a Maximum of 400 feet spacing between curb inlets
 - ____ n/a Culvert design calculations using appropriate modeling
 - ____ n/a Box culvert design provided (i.e., designed to HL93 loading)
 - ____ n/a Mud mat shown for cast-in-place box culverts
 - ___ n/a Note stating the City to review shop drawing for box culvert prior to Approval
 - ____ n/a Velocity calculations at discharge points
 - ____ n/a No adverse impact on adjacent property owners
 - ____ n/a Rip rap dimensions or other energy dissipation features
 - ____ n/a Rip rap calculations included in plans (i.e., not a bound report)
- ____ n/a Floodplain development permit, if needed
- ____ n/a Standard Details
 - ___ n/a Curb inlet
 - ___ n/a Junction box
 - ___ n/a Field inlet
 - ___ n/a Grated inlet
 - ____ n/a Other standard details as needed

WATER (Technical Specifications WAT-1)

- __ n/a Overview sheet of entire project
- ____ n/a Note stating no work will begin before MDNR permit received
- ____ n/a Plan and profile included
- ____ n/a Location
 - ____ n/a Water mains contained within an easement
 - ____ n/a Mains installed at 12" minimum from top of pipe
 - ____ n/a No dead-end water mains greater than 700 feet in length
 - ____ n/a Sufficient clearance between sanitary sewer mains

- ___ n/a Water line to be extended around the cul-de-sac to avoid water service lines beneath the cul-de-sac
- ____ n/a Opposite side of the street from the sidewalk, if practical
- __ n/a Two valves at a tee, and three valves at a cross
- ____ n/a Bends shown at all locations to achieve the minimum radius of curvature
- ____ n/a Gate valves on mains less than 24"
- ____ n/a Butterfly valves on mains 24" and larger
- ____ n/a Water lines to be bored beneath street (i.e., no open-cuts _ n/a allowed)
- ____ n/a Valves to be called-out along water main at lengths specified
- __ n/a Fire lines
 - ____ n/a No more than 500-foot separation between fire hydrants
 - ____ n/a Fire hydrant assembly standard detail provided, Clow Medallion only brand accepted
 - ___ n/a Temporary in-line fire hydrant assemblies called-out for dead ends where future extension will occur
 - ___ n/a Fire hydrants located 20 feet beyond the radius of curvature at Intersections
 - ___ n/a Fire line to include a valve on the public main where a valve does not exist within 500 feet
- ___ n/a Standard Details
 - ___ n/a Valve and valve box
 - ____ n/a Trenching and backfill
 - __ n/a Backflow vault and backflow assembly
 - ____ n/a Meter vault detail provided for meters 3" and larger
 - ____ n/a Standard water meter and vault
 - ____ n/a Thrust block
 - ____ n/a Manhole frame and lid standard details with standard lettering
- __ n/a Water demand analysis, if required
- ____ n/a MDNR concurrence letter prepared for signature
- ___ n/a MDNR permit acquired

SANITARY SEWER (Technical Specifications SAN-1)

- __ n/a Overview sheet of entire project
- ____ n/a Plan and Profile
 - ____ n/a All line segments included
 - ___ n/a Minimum of 0.2 feet fall between manhole flowline in/out, or 0.5 where the deflection angle is excessive
 - ____ n/a Pipe material called out
 - ___ n/a Sanitary sewer manholes called out with appropriate references to sheet numbers
 - ____ n/a All lots to be provided with sanitary sewer laterals and wyes. service lines can't cross property lines
 - ____ n/a All sanitary sewer service laterals clearly shown on the plans, either on the plan view with sufficient notes, or tablature format
 - ____ n/a Minimum pipe slopes for sanitary sewer lines shown
 - ____ n/a Sanitary sewer mains to be shown with minimum of 36" cover
- ___ n/a Design
 - ___ n/a Sanitary sewer analysis, including off-site sanitary, on-site sanitary, hydraulic grade line, velocity, based on the peak base flow and peak infiltration and inflow in bound report form
 - ____ n/a Maximum of 400 feet between manholes
- ___ n/a Location
 - ____ n/a Sanitary sewer mains to be extended to plat boundary
 - ____ n/a Wyes 4 feet from manhole and each other
- ____ n/a Standard details
 - ____ n/a Sanitary sewer manhole
 - ____ n/a Inside drop manhole standard
 - ____ n/a Shallow manhole
 - ____ n/a Manhole frame and lid standard details with standard lettering
 - ___ n/a Trenching and backfill
 - ____ n/a Wye and tracer wire
 - ____ n/a Stream crossing detail in accordance with the specifications
 - ___ n/a Trench check
- ____ n/a Manholes within floodplain to be constructed with bolt-down lids
- ____ n/a Dead end manholes to have 8' stub for future expansion. (where applicable)

____ n/a MDNR permit required prior to construction.

EROSION AND SEDIMENT CONTROL (DCM Section 5100)

- ____ n/a ESC plan included
- ____ n/a Turf reinforcement mat where appropriate
- ____ n/a Restoration plan
- ____ n/a Temporary sediment basin or sediment traps
- ____ n/a Design of temporary sediment basins or sediment trap
- _____n/a Calculations supporting the design of the temporary sediment basins or traps
- ___ n/a SWPPP

STREETLIGHTS

- ____ n/a Is all conduit called out on the plans
- ____ n/a Are the photometrics and voltage drop shown
- ____ n/a Does the controller have a time delay/ light shield
- ____ n/a Is the pole 30' tall
- ____ n/a Is the light 4000K LED

MISCELLANEOUS

- ___ n/a Easements shown on engineering plans match the plat
- ____ n/a Easements shown are minimum 15' wide.
- ____ n/a Off-site easements acquired or noted in approval letter