STANDARDS Town of Wilson Sanitary Districts 1 and 2 adopted May 6<sup>th</sup>, 2019 5935 South Business Drive Sheboygan, WI 53081

#### Summary

- A. Contacts
  - 1. Elected and Appointed Officials
  - 2. Professional Staff
  - 3. Meetings Held
  - 4. Utilities
- B. Additional Information and References
  - 1. General Ordinances (03/03/03)
  - 2. Drawings and Maps
  - 3. Annexation / Amendments
  - 4. "Standard Fees / Rate Schedule"
  - 5. Fees Due
  - 6. Ownership of Laterals / Services
  - 7. Operation of Sanitary Infrastructure
  - 8. Private Development Projects
  - 9. Construction Process, Performance Guarantees and Financial Security
  - 10. Pre-Construction Conference Required
  - 11. Development Guidelines
- C. Material Specification and Construction Standards
  - 1. General
  - 2. Sanitary Sewer
  - 3. Road, Driveway and Sidewalk Construction
  - 4. Utility Connections, Sawcuts, Removals and Patching
  - 5. Driveways
  - 6. Sidewalk and Walking Paths (n / a)
  - 7. Erosion Control and Site Stabilization
- D. Assessment Procedure / Policy



*U4/U2/19* 



## A. **Contacts** include:

#### 1. Elected and Appointed Officials

- a. President / Chair
- b. Commissioners (Town Board Supervisors)

## 2. Professional Staff

- a. **District** Clerk (part time)
- b. Operators (2-3)
- c. Sheboygan Press (Official Newspaper)
- d. Legal Counsel
- e. District Engineer

## 3. Meetings Held

- first  $(1^{st})$  and third  $(3^{rd})$  Mondays (5:30 6:30)a. Sanitary District 1
- third (3<sup>rd</sup>) Monday (following District 1) b. Sanitary District 2

#### 4. Utilities

Cable TV

- a. Electric
- b. Electric
- c. Natural Gas
- d. Telephone / fiber optic
- e. Telephone / fiber optic
- f. Telephone / Fiber Optic
- g. Listed w/ Diggers Hotline
  - 1) Township is listed
  - 2) District is listed

Spectrum / Time Warner Cable WE Energies WP&L (Alliant) Wisconsin Public Service AT&T Frontier Verizon North (800) 242-8511

## **B.** Additional Information and References

- 1. Sanitary District 1 General Ordinances (03/03/03)
  - a. Section 1 General
  - b. Section 2 Assessments
  - **Charges and Payment Policy** c. Section 3



- **Construction Policy** d. Section 4
- **Billing Practice** e. Section 5
- Finances (amended 12/19/16) f. Section 6
- g. Section 7 **Industrial Sewage Pretreatment**
- Enforcement of Wastewater Pretreatment Requirements h. Section 8
- Sewer Service Charges from Sheboygan i. Section 9
- Section 10 Equivalent Housing Units and Wastewater Characteristics
- Mutual Aid Agreement k. Section 11
- 2. Sanitary District 2

# 3. Drawings and Maps

- a. Sanitary Sewer System
  - 1) Original Plans Drawings and System Maps
  - 2) Construction Plan Drawings from various private development projects are also filed with the District
  - 3) Service Area and system maps
  - 4) Miscellaneous Sewer Maps (existing and future service areas) and private development projects
- b. Other
  - 1) Official Zoning Town of Wilson (as by Sheboygan County Planning and Zoning)
  - 2) Shoreland / Wetlands Wisconsin Department of Natural Resources (wisDNR) Wetland Inventory (stamped "final"). Electronic format is available from Sheboygan County and wisDNR.
  - 3) Sheboygan County (including but not limited to)
    - a) Land Parcels / Tax Maps
    - b) USPLS Government Section Corner Tie Sheets
    - c) Developed Property Addresses
    - d) Digital Orthophoto (1' ground resolution)
    - e) Digital Contours (2')
    - f) Soils
  - 4) USGS (digital) 1 meter ground resolution (Sheboygan County digital orthophoto with soils classifications)
  - 5) **FEMA** (federal emergency mapping agency)
    - a) Flood Insurance Study District Community Number (n / a)
    - b) Mapping available for rural Town of Wilson areas (2007)
      - profile panels 03P 04P •
      - Community Panel Numbers 550424 0329F, 0333F, 0334F, 0337F, 0339F, 0341F, 0342F, 0343F, 0344F, 0353F, 0354F, 0362F. 0365F



- 4. Annexation / Amendments. Developer is responsible for all costs to the District associated with additions or amendments including but not limited to **a**) petition for annexation or amendment **b**) survey map and legal description prepared by a Wisconsin professional land surveyor **c**) map and development plan for service area and d) District and professional services.
- 5. "Standard Fees / Rate Schedule" apply to all efforts associated with private and public projects and are available from the District (copy available from **District Clerk**).
- 6. Fees Due (professional services). Developers, private and other benefitting parties shall be responsible for all professional services costs incurred by the District. Services may include legal counsel, financial advisement, engineering and land surveying.
- 7. Ownership of Laterals / Services. Property owners are responsible to maintain all laterals and services (on private property). The District is responsible to maintain all laterals and services (within public road right of ways or District / utility easements). Reference Ordinance 4.07.
- 8. Operation of Sanitary Infrastructure
  - a. **Only** District public works staff may operate the sanitary infrastructure.
  - b. The District must be provided a minimum of 48 hours notice requesting operation of or access to the infrastructure.
- 9. Private Development Projects. Developer is responsible for all costs associated with the respective projects including but not limited to District Administration and Staff, Permits and Submittals, Reviews, and Professional Services (Legal, Planning Reviews, Engineering, Construction Services).
- 10. Construction Process, Performance Guarantees and Financial Security
  - a. Approval Required. District approval of all plans and specifications is required for projects which modify existing or extend utility services.
  - b. Additions and modifications to existing infrastructure **must** be approved by a designated **District** representative (**District** or Engineer). All public work improvements shall be designed and bear the seal of a Wisconsin professional engineer.
    - 1) Developer is responsible for requesting infrastructure services. Request shall include a minimum of location, duration, and description of the work.
  - c. Warranty. Contractor / Developer shall warrant / guarantee Work from the date of substantial completion for a minimum of 2 vears for all defects, workmanship, etc. as provided in the Engineering Joint Contract Documents Committee (EJCDC) General Conditions (most recent edition).
    - 1) The District reserves all rights to assess all costs to complete warranty work to the benefiting property and / or Developer.
  - d. Financial Security. Contractor / Developer / Private Parties shall provide financial surety (option of performance and payment bonds, and / or irrevocable letter of credit) for the complete value of the Work (plus 10% contingency). All documents must name the District as primary beneficiary.
  - e. Record Drawings / Contract Documents
    - 1) Developer's Contractor shall provide "as-built" record drawings (two paper copies) at the completion of the improvements and shall include a minimum of all lengths, alignments, grade, and service / lateral information that document the improvements.
    - 2) Record Drawings must be provided to the District no later than 90 days after construction is complete.

- 3) Developer shall also provide an **electronic copy** of the design documents (including but not limited to plan and detail drawings) that may be amended as record drawings. Electronic documents shall be referenced to the Sheboygan County Coordinate System.
- 4) Contractor submittals shall be reviewed and approved by the District prior to commencing construction.
- f. **Dedication and Public Acceptance**. The District may accept public improvements constructed by private Developers / Contractors after the District determines the Work is completed to all applicable codes, ordinances, permits and standards; and all necessary documentation is submitted and approved.
- g. Construction Services
  - 1) Developer is responsible for all costs associated with Construction Services necessary to install the improvements (including but not limited to District services).
  - 2) Construction Services include, but are not limited to, contract administration, staking (and survey reference points), site observations and record drawings.
  - 3) All public works improvements (public sanitary sewer and watermain) shall be observed under the supervision of a licensed Wisconsin Professional Engineer (as required by Wisconsin Statute and Administrative Code). The District may elect for a District employee or Agent to perform observations.

# 11. Pre-Construction Conference Required

- a. Within 20 days after the Contract Times start to run, but before any Work at the Site is started, a conference attended by the Developer and District Representatives, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the respective parties general responsibilities, schedules, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.
- b. The conference will be held at a location selected by the District and Developer. The conference shall be attended by:
  - 1) Developer(s)
  - 2) Developer's Agent(s)
  - 3) Contractor(s)
    - a) Office Representative(s)
    - b) Resident Superintendent(s)
    - c) Safety Representative(s)
      - "Project Coordinator" designated by Contractor to process and submit Shop Drawings and other submittals to Engineer.
      - Any Subcontractors' or Suppliers' representatives that the Contractor or District may request.
  - 4) **District** Representative(s) including
    - a) District Engineer
    - b) Private Utility Representatives
- c. A suggested format would include, but not be limited to, the following subjects:
  - 1) Project safety

- 2) Presentation of the preliminary progress schedule and preliminary schedule of Shop Drawings and sample submissions in accordance with the Specifications or General Requirements.
- 3) Liquidated damages (if applicable).
- 4) Procedures for handling submittals such as Shop Drawings and other submittals.
- 5) Direction of correspondence and coordinating responsibility between Contractors.
- 6) Project meetings.
- 7) Laboratory testing of material requirements.
- 8) Procedures for inventory of material and equipment stored on-site or off-site, if off-site storage is authorized.
- 9) Review schedule of values, application for progress payment, and progress payment procedures (if applicable).
- 10) Change Order procedures.
- 12. **Development Guidelines** (including example developer's agreements and description of necessary steps), Codes and Ordinances are available from the District as the Developer presents planning concepts.

# C. Material Specification and Construction Standards

- 1. General
  - a. Reference Standards (most recent edition applies complete with applicable addenda / supplements)
    - 1) **ASTM** (American Society of Testing Materials)
    - 2) AWWA (American Waterworks Association )
    - 3) District, Town and County Codes and Ordinances
    - 4) Standard Specifications for Sewer and Water Construction in Wisconsin ("Standard Specifications"), including all addenda
    - 5) **Specifications for Road and Structure Construction** (Wisconsin Department of Transportation wisDOT "State Specifications") including all supplements.
    - 6) Wisconsin Administrative Code
      - a) Chapter NR 110 (sewerage systems)
      - b) Chapter SPS 381 4 (plumbing)
  - b. Manufacturer and Suppliers shall be North American only.
  - c. Laterals
    - Duplex / Condominium (2 required) Duplex condominiums or multiple owner occupied structures shall have individual laterals (sanitary) to each unit. Laterals to multi-family structures (serving 3 or more dwelling units) shall be sized based on Wisconsin Plumbing and Building Codes.
    - 2) Property Owner is responsible to install lateral piping and appurtenances that comply with the Wisconsin Plumbing and Building Codes.

## d. Infrastructure Limits

1) Extend utilities across lot frontage and to property limits.

## e. Utility Trenches

## 1) Granular Backfill

- a) <u>All</u> utility construction beneath or within the influence zones of pavement, shoulders or future paved / shoulder areas, either within public road rights of ways or easement areas, shall be backfilled with compacted granular backfill materials. Cohesive soils (clays, silts, etc) shall not be used to backfill excavations under pavement. Existing native excavated materials may be used as granular backfill provided **a**) they meet the gradation requirements below **and b**) the materials have a moisture content that accommodates compaction to 95% modified proctor (based on density / moisture proctor curves).
- b) Granular backfill materials shall be:
  - used to backfill trenches, except as otherwise specified.
  - granular, grade 2 granular, "pit run" sand, or sand (class I) materials and have the following properties:

Sieve size	percentage passing by weight
2 inch	95 - 100
finer than no. 200	6 (maximum)

- c) The cost of furnishing and placing granular backfill and disposing of excavated material shall be included in the respective unit price(s) bid for utilities.
- d) If excavated material is suitable for use as granular backfill, trenches shall be backfilled with suitable excavated granular material when so directed by the District Engineer. A credit for using excavated material backfill in place of granular material will be figured based upon the price bid in the Schedule of Supplemental Unit Prices. The volume of material will be based upon field measurements of the trench.
- 2) Native Materials as Backfill. Native materials may be used as backfill in non-paved areas. The materials have a moisture content that accommodates compaction to 90% modified proctor (based on density / moisture proctor curves). Topsoil, peat or other deleterious materials shall not be for any utility excavations.
- 3) **Density testing required**. Contractor shall be responsible for necessary soil density testing as a quality control action. Testing frequency shall be specified in the construction documents as approved by the District and / or District Engineer.

## f. Tracer Wires and Electrical Continuity Required

- 1) Required. Tracer wire shall be installed along all non-metallic sanitary sewer pipes including but not limited to the following:
  - a) Sanitary sewer mains and laterals
  - b) Forcemains

- 2) **Connection**. Wires shall be securely taped at the pipe spring line a maximum of 5' securely around the pipe. Wire connections shall be with watertight Scotch type connectors. Connections shall not be sealed with wire tape.
- 3) **Type**. Tracer wire shall be number 10 AWG solid single copper wire. The wire shall have a continuous plastic coating of type THWN insulation that is rated for "wet conditions". Conductivity clamps shall be installed on all tracer wire ends.
- 4) Color Coding. Wire colors shall follow the American National Standards Institute and Wisconsin Statutes Section 182. In addition:
  a) Sanitary sewer mains, forcemains and laterals shall be solid green.
- 5) Access
  - a) The tracer wire at the property line shall be inserted into a sixty (60) inch long, two (2) inch PVC conduit (SDR 35 or DR 26) with the end of the tracer wire being secured to a screw type cap. The conduit may be relocated to the front foundation wall of the principal structure when the site is improved.
  - b) Attach wire to terminal screw on lid with sufficient slack left in wire length so that lid can be lifted approximately 18 inches from access box with wire intact
  - c) **Structures**. Tracer wire shall be accessible from within manholes and structures at the terminal points of mains and inlet leads. Wires shall be accessible from and slack stored behind steps. Wires slack shall provide access a minimum of three (3) feet above finish grade.
- 6) **Testing**. After the CONTRACTOR has completed all sewer pipeline installation, the CONTRACTOR will test the electrical continuity of all tracer wire installations on the project under the observation of the OWNER / ENGINEER.
- g. Surplus excavated materials shall either a) be disposed of off site and outside the District limits or b) graded to drain and compacted on site to elevations and grades based on an accepted site grading plan.

## 2. Sanitary Sewer

- a. Service. The District requires that all new properties that are to be served by the District are entirely within the District.
- b. Private Interceptors and Pumping Systems
  - 1) Reference General Ordinance Section 4.
  - 2) New Construction. The District has the sole discretion to allow construction of private interceptors and pumping systems that serve two (2) or more properties. The landowner is responsible to document there are unusual conditions that justify a private interceptor or pumping system.
  - 3) **Ownership and Maintenance**. Private property owners are responsible to maintain, service and repair privately constructed interceptor sewers and pumping systems.
- c. Gravity Sewer Service
  - 1) **Gravity Sewer Service Required**. The District policy and long range plan is to replace existing pumping systems with gravity sewer mains (where technically possible).

- 2) Private property owners and developer shall install gravity sewer mains at maximum depth and minimum slope to accommodate future sewer extensions. These parties cannot extend gravity sewers at a depth and slope that is solely for their convenience and cost savings.
- 3) Where gravity service cannot be provided private property owners and developers are responsible for all costs associated with installing pumping systems that meet District standards.
- d. Lift / Pump Stations. Design, material, and performance requirements are subject to District review and approval.

# e. Manholes

- 1) Pre-cast reinforced concrete with pre-formed benches smooth finished (minimum 4' interior diameter)
- 2) Premanufactured flow lines and benches. Benches shall extend minimum 2" above spring line.
- 3) Exterior drop manholes (not interior).
- 4) **Pipe connections** "Kore N Seal" integral rubber boot (or pre-approved equal) meeting physical requirements of ASTM C443 and performance requirements of ASTM C425 and C443. Field sawcut connections are not allowed.
- 5) Epoxy coated steps with non-slip surfaces.
- 6) Maximum 4-inches adjustment (1 ring total) new construction or rehabilitation projects
- 7) **Casting Rims** shall be set to finish grade:
  - a) 0.05 0.10 feet below finish pavement surface
  - b) 0.10 feet below finish topsoil grade (road in-slopes subject to snow plow blades)
  - c) 0.25 feet above finish topsoil grade (road back-slopes)
  - d) install metal fence post markers in front of castings
- 8) Internal chimney seal (Cretex Specialty Products) completely spanning from precast manhole to frame.
- 9) Neenah R-1710 frame and casting with Type "B" self-sealing non-rocking lids with concealed pickhole.
- 10) Joint seal (external and to frame) <sup>1</sup>/<sub>4</sub>" butyl rubber sealant, "EZ-Stik" or "Kent-Seal
- 11) Granular Backfill required
- 12) Laterals shall not be connected to manholes.
  - a) Reference Ordinance 4.06.
  - b) The District may consider lateral connections to manholes only when existing conditions where depth, soil and / or groundwater would impose an unreasonable cost. Vertical drops may be interior to the manhole. Piping shall direct flow into the trough. Flow may not be discharged over / onto benches.
  - c) Laterals shall not otherwise be connected to manholes.
- f. Lateral
  - 1) A **permit application** shall be provided to the **District** a minimum of one (1) week before the proposed sewer improvements are constructed. A complete application shall be submitted with all documentation and forms required by the **District**.
  - 2) Multiple Laterals
    - a) Multiple buildings on the same property that are served by sanitary sewers must have separate laterals.

b) Multiple laterals are required regardless of whether buildings are under common or separate ownership.

## 3) Materials

- a) PVC, ASTM D3034, SDR-35 (minimum)
- b) or PVC SDR26, schedule 40 (minimum)
- c) or DR 18 for boring / directional drill installation as pre-approved by the District
- d) In-line, pre-formed / pre-fabricated fittings only
- e) **Backflow preventer** is required for all new construction (01/01/15 Ordinance 4.03)
- 4) A District Representative shall observe the complete lateral installation and all required tests before it may be buried.
- 5) Each lot shall be served with their own lateral (generally at lot center installed to property / right of way line)
  - a) 4-inch minimum single family residential
  - b) 4-inch minimum duplex (two family) residential (or sized per PSS 382). Each residential unit shall have their own lateral. Residential units shall not share a lateral.
  - c) Commercial / Business / Other Property Owner responsible for sizing lateral based on design requirements and plumbing code / regulations
  - d) Mark the lateral terminus with a hardwood 2"x 4" (top painted green)

## 6) **Risers**

- a) Risers are required when main is constructed and extends past undeveloped / vacant properties. The risers shall be constructed with the original main construction to benefit future development.
- b) Risers shall be spaced at a maximum 100 feet along the main. Extend riser minimum 5 feet beyond pavement (existing / proposed).
- c) Install risers using inline fittings rotated to 45 degrees up from horizontal. Install riser to depth required for service to the lot.
- d) Riser shall extend to a maximum 8 feet below ground surface elevation at the right of way / property line.

# g. Sewer Materials and Installation

- 1) PVC, ASTM D3034, SDR-35, (depths less than 20 feet) with rubber gasket type joints
  - a) Class "B" Bedding

# 2) New Construction

- a) Integral in-line sweeping wye fittings are required for new construction
- b) Fernco or other flexible pipe to fitting connections are not allowed.
- 3) Existing Sewer Mains
  - a) Cut in connections require repair sleeve fittings (GPK Products, Inc. or pre-approved equal).
  - b) Fernco type flexible connections may only be used when connecting fittings to or repairing pipes of different materials

<sup>th</sup>. 2019

4) **Removal of Service**. Services that are taken out of service shall be permanently capped and sealed at the right of way / property line or pavement edge. Reference the Ordinance.

#### h. Low Pressure Sewer

- 1) Public low pressure sewers are not allowed except where existing topography cannot accommodate gravity service.
- 2) Gravity sanitary sewer drainage must otherwise be provided.

#### i. Force Main

- 1) **PVC C-900** (depth less than 20 feet)
  - a) Class "B" Bedding
- 2) **Ductile Iron** (class 50) (depth of 20'+)
  - a) Class "C" Bedding
  - b) cement line interior
  - c) Corrosion resistant bolts (Cor-Blue T-Bolts, NSS Industries)
  - d) Polywrap encasement required.
- 3) A **joint use manhole** shall be used for both air release valves and maintenance pigging fittings.
  - a) Air release valves shall be Crispen Model S20B or SL20.
  - b) install plug and ball valves to isolate pigging wye and air release valves for maintenance.

## j. Testing

- 1) General. All tests shall be completed in the presence of a District Representative.
- 2) Gravity Sewer
  - a) Low-pressure air (leakage) of both mains and laterals (gravity, PVC) per Standard Specifications
  - b) Mandrel / deflection test all flexible pipes (with "go no-go" device) per Standard Specifications
  - c) Clean all sewer before being placed in service and televising
  - d) **Televise** mains (8" and larger) including electronic media (video and still photos of defects) and written reports (each sewer main section and defects). Include structures and pipe connections to structures.

## 3) Laterals

- a) Gravity laterals shall be low-pressure air tested.
- b) Laterals shall be pressure tested before they are buried or placed in service.
- c) Pressure pipe laterals, where allowed, shall be hydrostatic pressure tested.

## 4) Forcemain

- a) Hydrostatic Pressure and Leakage (AWWA) (including laterals for low pressure sewers)
- b) Flush main
- c) Operate all valves in presence of **District** representatives

# 3. Road, Driveway and Sidewalk Construction

- a. General
  - 1) Reference the Town roadway typical section
  - 2) **Rural roadway** applicable to
    - a) residential
    - b) agricultural
    - c) commercial
  - 3) Urban roadway applicable to
    - a) commercial
    - b) intersections
    - c) streets identified on the Town Master Plan / Official Maps

# b. Standards

- 1) Grading per State Specifications.
  - a) Construct subgrade per State Specification 205.3.1 and 207.3.6.3.
  - b) Grade surfaces within <sup>1</sup>/<sub>2</sub> inch of plan grade.
  - c) Perform proofroll with loaded quad truck. Areas with deflections exceeding 1" shall not be graveled until the surfaces are conditioned, and defective conditions replaced.
- 2) **Roadway geotextile fabric type SAS** or SR (non-woven) per wisDOT 645. Install where required by the District and when subgrade soils cannot pass a "proofroll". Install at roadway subgrade below all aggregate base course including shoulders. Acceptable manufacturers include Mirafi 600X, Trevira 1135, Amoco 2006, Exxon GTF-300, Phillips Supac 14NP, Nicolon HP 500, or pre-approved equal.
- 3) Crushed aggregate base course (BAD base aggregate dense)
  - a) Gradation No. 2 (State Specification 304.2.3. and 304.2.6). Aggregate shall have minimum of 50% machine fractured faces for particles retained on the no. 4 sieve.
  - b) **Residential** (road classification as local) 12-inch minimum
  - c) **Commercial** (or roads classified as arterial or collector) 12-inch minimum
  - d) 3-foot minimum shoulders from edge of pavement (plus in-slope runout required).

- 4) Concrete curb and gutter (Type D, 30" or "mountable") 3,500 psi, 28-day strength, Type "A"
- 5) Asphaltic pavement (wisDOT, Type LV)
  - a) **Residential** street, 4-inch (2-inch binder, 2-inch surface) minimum 24-foot wide
  - b) **Commercial**, 4-inch (2-inch binder, 2-inch surface)
  - c) Sawcut all existing pavements full depth. Minimum pavement width is 8 feet. Match to nearest existing joints.
  - d) Binder course (and concrete curb and gutter) installed with initial development.
  - e) Perform one **density test** per State Specification 407.5.1 from a sawcut sample of compacted pavement. Restore the disturbed area with new compacted pavement.
  - f) Pavement thickness shall not vary by more than 1/4 inch from the identified compacted thickness.
  - g) Install and maintain seasonal **cold patch**. Remove cold patch and replace with permanent asphalt pavement when weather conditions allow.

## 6) Turf Restoration

- a) Disturbed areas shall be finish graded per approved master site grading plans, plan drawings, or to match pre-construction conditions. Restored areas shall adequately drain surface water with no negative impacts to adjoining properties.
- b) Areas shall be restored with a minimum 4" topsoil (State Specification sections 625.2.1 and 625.2.2), seed ("Madison Parks" blend 6 pounds and additional perennial rye 2 pounds per 1,000 square feet), fertilizer (State Specification section 629) and straw mulch (State Specification section 629) disk crimped in place.
- c) Disturbed areas shall be restored to preconstruction conditions and correct any warranty issues including but not limited to settling.

## 4. Utility Connections, Pavement Sawcuts, Removals and Patching

- a. Town / District / Plumbing Inspector approval is required before beginning work.
- b. Utilities and services shall meet the **District** material specifications.
- c. Reference C.1.e.1) regarding the use of granular materials.

## d. Full-depth sawcuts required

- 1) Disturbed paved surfaces shall be sawcut full depth.
- 2) Sawcuts shall be neat, parallel and perpendicular to the roadway centerline.
- 3) Removal limits shall accommodate minimum 8-foot wide asphalt pavement equipment. Removal limits shall include all disturbed areas. Removal limits for concrete pavement shall be to the nearest construction joint or as approved by the District.
- 4) Disturbed areas shall be restored to an "equal" or "better than" pre-construction condition.
- e. Paved surfaces shall be restored in-kind to the minimum specified dimensions. Concrete surfaces shall be "doweled".

#### 5. Driveways

a. Driveways replaced in kind. Driveways surfaces shall be replaced in kind or improved (at the Owner's expense).

#### b. Concrete

- 1) Residential (6-inch 3,500 psi, 28-day strength, Type "A") with 6-inch crushed aggregate base course
- 2) Commercial and Business (8-inch 3,500 psi, 28-day strength, Type "A") with 8-inch crushed aggregate base course

## c. Asphaltic

- 1) Residential (2-inch one lift, Type "LV") with 6-inch crushed aggregate base course
- 2) Commercial and Business (4-inch two lifts, Type "LV") with 12-inch crushed aggregate base course
- d. **Dimensions** (minimum and maximum widths at the right of way)
  - 1) **Residential** 12-foot minimum at right of way, 16-foot minimum / 30-foot maximum curb opening, 24-foot maximum width at right of way
  - 2) **Business** 16-foot minimum at right of way, 28-foot maximum at right of way, 35-foot maximum width within right of way
  - 3) **Commercial** 16-foot minimum at right of way, 28-foot maximum at right of way, 35-foot maximum width within right of way
  - 4) **Agricultural** 16-foot minimum at right of way, 24-foot maximum at right of way

## e. Curb and Gutter

- 1) Removals required for driveway require sawcutting and removal at joints or locations approved by District.
- f. The type of driveway surface is subject to review and consideration of the District's and Town's sidewalk master plan. All driveway aprons (within right of way) shall be concrete in areas currently served, or to be served with concrete sidewalk.
- g. Concrete driveway aprons will be installed in the public road right of way to existing residences within new developments when concrete curb and gutter is installed. All associated costs shall be paid for by the respective property owners through special assessments.
- 6. Sidewalk and Walking Paths ( n / a )

## 7. Erosion Control and Site Stabilization

- a. Completely install before commencing construction activities
- b. Maintain throughout construction and until disturbed lands are stabilized with natural vegetation.
- c. Methods and materials
- d. comply with Notice of Intent, technical standards and best management practices (wisDNR)
- e. Erosion Control and site stabilization measures shall meet Wisconsin Administrative Code NR 151 and 216, Wisconsin Construction Site Best Management Practice Handbook and Wisconsin Department of Natural Resources Technical Standards.



- f. Install temporary swale / ditch stabilization fabric (North American Green "S" and "SC" or American Excelsior Curlex II products).
- g. Install permanent stabilization fabric in high flow / velocity areas (North American Green "C" products).

## D. Assessment Procedure / Policy

- 1. The District recognizes their right to enforce their Statutory Police Powers regarding allocating costs for public improvements based on benefit through Special Assessments.
  - a. Assessment Policy and Standard Fees available from the District Clerk
  - b. **Final Assessments** shall be prepared by the **Engineer** and delivered to the **District** within 90 days of Contractor achieving Substantial Completion.
- 2. The **District policy** is to allocate costs to benefiting parties based on any or a combination of the following:
  - a. Number of lots or equivalent residential units (ERU)
  - b. Acreage
  - c. Front footage distance along public road rights of way
- 3. Policy identifies percentage contributions from participating benefiting landowners.
  - a. Sanitary Sewer
  - b. Streets
  - c. Restoration
  - d. District administration, legal and professional services.
- 4. The **District** may consider **deferred assessments** to benefiting parties subject to the following:
  - a. The property owner is responsible for the initial payment and simple interest (standard rate + minimum  $\frac{1}{2}$  percent).
  - b. Complete payment in full is due upon the earlier of 1) the property being sold or transfer of ownership or 2) the property is developed and connects to the sewer.
- 5. The District recognizes their right to levy special assessments to benefiting properties that are not presently within the District but that may benefit from District sewer improvements.

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