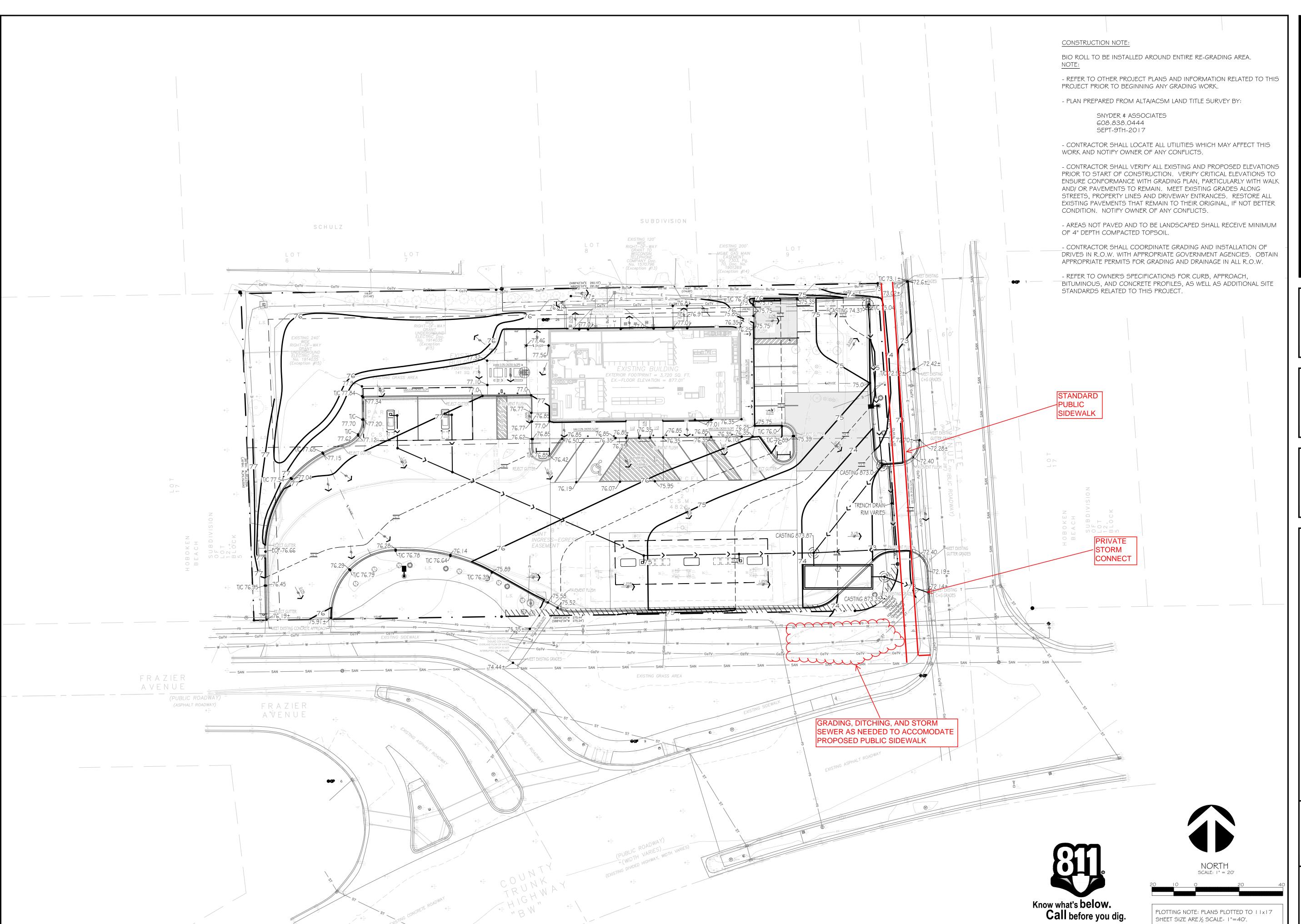


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City of Madison, WI - GIS/Mapping data

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Disclaimer: The City makes no representation about the accuracy of these records and shall not be liable for any damages

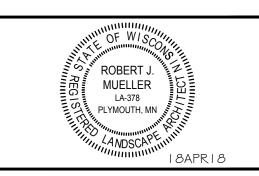


KWIK TRIP

KWIK Star

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FAX (608) 781-8960

SITE PLANNING LANDSCAPE ARCHITECTURE 3030 Harbor Lane North, STE 131 Plymouth Minnesota 55447 763.383.8400 fax 763.383.8440

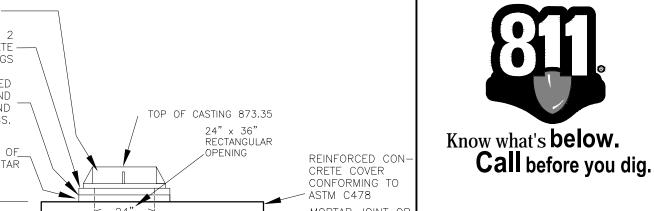


INCE STORE 965

GRADE PLAN
CONVENIENCE ST
MADISON, WISCONSIN

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<u>).</u>	DATE	DESCRIPTION
 - - - -	17JULY18 25JULY18 03OCT18	SUBMITTAL SUBMITTAL ADD CANOPY COMMISSION COMMENTS PLANNING COMMENTS

DRAWN BY	
SCALE	GRAPHIC
PROJ. NO.	17965
DATE	18APR2018
SHEET	SP2



CRETE SECTIONS

CONFORMING T

2" HDPE OUTLET

ASTM C478

V. 868.75

BUTYL RUBBER SEALANT AROUND ENTIRE PERIMETER. STORM DRAINAGE:

JOINT TO HAVE DOUBLE LINE OF

CULVERT SECTIONS WILL BE

JOINED USING 1" O RODS.

BOX STRUCTURE TO BE INSTALLED AT

STRUCTURE APPLY AT THE INLET OF

A 0.0% GRADE. ALL ELEVATIONS SHOWN ON THE OUTLET END OF THE

SUBMERGED

INLET

12" CMP

FLOW

INV. 863.75

THE STRUCTURE.

NOTES:

___ ELEV. 868.25 ∨

JNV. 865.75

Unless otherwise indicated, use reinforced, precast, concrete maintenance holes and catchbasins conforming to ASTM C478, furnished with water stop rubber gaskets and precast bases. Joints for all precast maintenance hole sections shall have confined, rubber "O"—ring gaskets in accordance with ASTM C443. These joints are normally used in sewers to hold infiltration and exfiltration to a practical minimum and are adequate for hydrostatic heads up to 30'. The inside barrel diameter shall not be less than 48

12" HDPE

FLOW

- Install catchbasin castings with specified top elevation at the front rim
- All joints and connections to catchbasins or manholes shall be watertight. Joints between concrete structures and piping shall be made with mechanical joints (resilient rubber seal/boot and clamp) in conformance with ASTM C923, ASTM C654, or as otherwise permitted by the local authority. Cement mortar joints are <u>not</u> allowed unless otherwise permitted by the administrative authority.
- The building sewer starts 2 feet outside of the building. See Uniform Plumbing Code (UPC) part 715.1. Material installed within 2 feet of the building must be of materials approved for use inside of or within the
- PVC Pipe (Outside of the Building): Use solid-core, SDR-35, ASTM D3034 Polyvinyl Chloride (PVC) Pipe for designated PVC storm sewer services 4 to

- 15—inches in diameter outside of the building. Use solid—core, SDR—35, ASTM F679 Polyvinyl Chloride (PVC) pipe for designated PVC storm sewer services 18 to 27—inches in diameter outside of the building. Joints for all storm sewer shall have push—on joints with elastomeric gaskets. Use of solvent cement joints is allowed for building services. Solvent cement joints in PVC pipe must include use of a primer which is of contrasting color to the pipe and cement in accordance with Uniform Plumbing Code (UPC), part 605.13.2. Pipe with solvent cement joints shall be joined with PVC cement conforming to ASTM D2564. Lay all PVC pipe on a continuous granular bed. Installation must comply with ASTM D2321.
- 6. Cleanouts: Install cleanouts on all roof drains in accordance with S.P.S. 382.35 (3)(C)(1.). The distance between cleanouts in horizontal piping shall not exceed 100 feet for pipes 10—inches and under in size. Cleanouts shall be of the same nominal size as the pipes they serve. Install a meter box frame and solid lid (Neenah R—1914—A, or approved eaual) over all cleanouts.

INV. 863.25

5' x 10' REINFORCED CONCRETE

UNDERGROUND STORAGE SYSTEM

- . <u>RCP:</u> Reinforced concrete pipe (RCP) and fittings shall conform to ASTM C76, Design C, with circular reinforcing for the class of pipe specified. Use Class IV RCP for pipes 21" and larger. Use Class V RCP for pipes 18" and smaller. Joints shall be made up of concrete surfaces with a groove on the spigot for an O—ring rubber gasket (also referred to as a confined O-ring type joint) in accordance with ASTM C361. These joints are normally used in gravity sewers where exceptional tightness is required. This type of joint provides excellent inherent water tightness in both the straight and deflected position and meets all the joint requirements of
- 8. <u>Testing</u>: Test all portions of storm sewer that are within 10 feet of buildings, within 10 feet of buried water, lines, within 50 feet of water wells, or that pass through soil or water identified as being contaminated in accordance with UPC part 1109.0. Test all flexible storm sewer lines for deflection after the sewer line has been installed and backfill has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. If the test fails, make necessary repairs and retest.

REINFORCED CONCRETE

TO ASTM C478

BASE SLAB CONFORMING

NEENAH R-1981

12" HDPE

OR APPROVED

EQUAL

AS REQUIRED

12" RCP

FLOW

INV. 863.75

*Not to Scale

NV. 865.75

OUTLET 🗡

SUBMERGED

OIL-DEBRIS

OIL SKIMMER MH #1

16"Ö.C.

- 9. <u>Draintile</u>: Perforated under—drains shall be slotted single wall corrugated HDPE. Install draintile with high permittivity circular knit polymeric filament filter sock per ASTM D6707-01
- 10. Use Neenah R-3067-DR/DL casting with curb box, or approved equal, on CB #3 and CB#4. Casting shall include the "NO DUMPING. DRAINS TO RIVER." environmental notice.
- 11. Use Neenah Foundry Co. R-1642 casting with self-sealing, solid, type B lid, or approved equal, on all storm sewer maintenance holes. Covers shall bear the "Storm Sewer" label. other methods in order to be located in accord with the provisions of
- 12. <u>Tracer Wire</u>: Locating requirements a means to locate buried underground exterior non metallic sewers/mains must be provided with tracer wire or these code sections as per 182.0715(2r) of the statutes. Install detectable underground marking tape directly above all pvc, polyethylene, and other nonconductive underground utilities at a depth of 457 mm (18 inches) below finished grade, unless otherwise indicated. Bring the tape to the surface at various locations in order to provide connection points for locating underground utilities. Install green Rhino TriView Flex Test Stations,

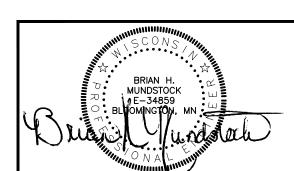
- or approved equal, with black caps at each surface location.
- 13. The minimum depth of cover for building and canopy roof drain leaders without insulation is 5 feet. Insulate roof drain leaders at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness of 2 inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inches above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam HI-40 plastic foam insulation.
- 14. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end or receiving groove end of the pipe pointing upgrade. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in water or when the trench conditions are unsuitable for such work.
- 15. Clean sediment and debris from sewers, sumps and stormwater basins prior to final owner acceptance.
- 16. Televise all existing lines prior to connection.

- GENERAL:
- Existing boundary, location, topographic, and utility information shown on this plan is from a field survey by Snyder and Associates, Inc. dated 09/9/17. The Engineer is not responsible for inaccuracies related to the survey
- 2. Perform all construction work in accordance with State and Local requirements.
- 3. Comply with all applicable local, state, and federal safety regulations. Comply with the work safety practices specified by the Occupational Safety and Health Administration (OSHA). OSHA prohibits entry into "confined spaces," such as manholes and inlets (see 29 CFR Section 1910.146), without undertaking certain specific practices and procedures. Perform excavations in accordance with the requirements of O.S.H.A. 29 CFR, Part 1926, Subpart P, Excavations. Sloping or benching for excavations greater than 20 feet deep must be approved by a registered professional enginee (www.osha.gov).
- 4. Safety is solely the responsibility of the Contractor, who is also solely responsible for the construction means, methods, techniques, sequences or procedures, and for safety precautions and programs in connection with the Work.
- 5. The Engineer shall not have control over, charge of, or responsibility for the construction means, methods, techniques sequences or procedures, or for safety precautions and programs in connection with the Work. The Engineer's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or
- Examine all local conditions at the site, and assume responsibility as to the grades, contours, and the character of the earth, existing conditions, and other items that may be encountered during excavation work above or below the existing grades. Review the drawings, specifications, and geotechnical report covering this work and become familiar with the anticipated site conditions.
- 7. Refer to the architectural plans for building and stoop dimensions, site layout and dimensions, pavement sections and details, striping, and other site features.
- A licensed surveyor shall perform construction staking. The Contractor shall provide and be responsible for the staking. Verify all plan and detail dimensions prior to construction staking. Stake the limits of walkways and curbing prior to valvebox, maintenance hole, and catchbasin installation. Adjust valvebox and maintenance hole locations in order to avoid conflicts with curb and gutter. Adjust catchbasin locations in order to align properly with curb and
- 9. Provide temporary fences, barricades, coverings, and other protections in order to preserve existing items to remain, and to prevent injury or damage to person or property.
- 10. Provide all traffic control required in order to construct the proposed improvements. Traffic control design and associated government approvals are the responsibility of the Contractor. Comply with local authorities, the latest version of the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), and the Wisconsin Manua on Uniform Traffic Control Devices Supplement to the MUTCD.
- 11. Connect to existing sanitary sewer MH's by coredrilling. Connect to existing storm sewer MH's by either sawcutting of coredrilling. Use saws or drills that provide water to the blade. Meet all City standards and specifications for the t connection. Reconstruct inverts after installation. Use water stop gaskets in order to provide watertight seals when penetrating a structure wall with a pipe. Take measurements before beginning construction to ensure that service connections do not cut into maintenance access structure joints or pipe barrel joints.
- 12. All other existing existing sewer and watermain pipes that are to be abandoned shall either be removed, or complete filled with sand or lean mix grout.
- 13. The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data.
- 14. The locations of existing utilities shown on this plan are from record information. The Engineer does not guarantee that all existing utilities are shown or, if shown, exist in the locations indicated on the plan. It is the Contractor's responsibility to ascertain the final vertical and horizontal location of all existing utilities (including water and sewer lines and appurtenances). Notify the Engineer of any discrepancies.
- 15. The Contractor is solely responsible for all utility locates. Contact utility companies for locations of all public and private utilities within the work area prior to beginning construction. Contact Digger's Hotline at (414) 259-1181 in the Milwaukee Metro Area, or 1-800-242-8511 elsewhere in Wisconsin for exact locations of existing utilities at least 72 hours (not including weekends and holidays) before beginning any construction. Obtain ticket number and meet with representatives of the various utilities at the site. Provide the Owner with the ticket number information. Digger's Hotline is a free service that locates municipal and utility company lines, but does not locate private utility lines. Use an independent locator service or other means in order to obtain locations of private utility lines including but not limited to, underground electric cables, telephone, TV, and lawn sprinkler lines.
- 16. Pothole to verify the positions of existing underground facilities at a sufficient number of locations in order to assure that no conflict with the proposed work exists and that sufficient clearance is available.
- 17. Where existing gas, electric, cable, or telephone utilities conflict with the Work, coordinate the abandonment, relocation offset, or support of the existing utilities with the appropriate local utility companies. Coordinate new gas meter and gas line installation, electric meter and electric service installation, cable service, and telephone service installation with the local utility companies.
- 18. Arrange for and secure suitable disposal areas off—site. Dispose of all excess soil, waste material, debris, and all materials not designated for salvage. Waste material and debris includes trees, stumps, pipe, concrete, asphaltic concrete, cans, or other waste material from the construction operations. Obtain the rights to any waste area for disposal of unsuitable or surplus material either shown or not shown on the plans. All work in disposing of such material shall be considered incidental to the work. All disposal must conform to applicable solid waste disposal permit regulations. Obtain all necessary permits at no cost to the OWNER.
- 19. Straight line saw—cut existing bituminous or concrete surfacing at the perimeter of pavement removal areas. Use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system. Tack and match all connections to existing bituminous
- 20. Relocate overhead power, telephone, and cable lines as required. Seal and report any existing unused on—site wells
- 21. All materials required for this work shall be new material conforming to the requirements for class, kind, grade, size, auality, and other details specified herein or as shown on the Plans. Do not use recycled or salvaged aggregate, asphaltic pavement, crushed concrete, or scrap shingles. Unless otherwise indicated, the Contractor shall furnish all
- 22. Reconstruct driveways and patch street to match existing pavement section and grade. Sod right-of-way. The work area shown is general and may need to be adjusted in the field.
- 23. Restore the public right—of—way at temporary construction entrance locations. Replace any concrete curb and gutter, bituminous pavement, sidewalk, or vegetative cover damaged by the construction activity. Restore damaged turf with sod within the public right—of—way. The work area shown is general and may need to be adjusted in the field.
- 24. Protect sub grades from damage by surface water runoff.
- 25. When sawing or drilling concrete or masonry, use saws that provide water to the blade. Do not allow the slurry produced by this process to be tracked outside of the immediate work area or discharged into the sewer system.
- 26. Adjust all curb stops, valve boxes, maintenance hole castings, catchbasin castings, cleanout covers, and similar items
- 27. Install all pipe with the ASTM identification numbers on the top for inspection. Commence pipe laying at the lowest point in the proposed sewer line. Lay the pipe with the bell end or receiving groove end of the pipe pointing upgrade. When connecting to an existing pipe, uncover the existing pipe in order to allow any adjustments in the proposed line and grade before laying any pipe. Do not lay pipes in water or when the trench conditions are
- 28. Obtain and pay for all permits, tests, inspections, etc. required by agencies that have jurisdiction over the project including the NPDES permit from the State. The Contractor is responsible for all bonds, letters of credit, or cash sureties related to the work. Execute and inspect work in accordance with all local and state codes, rules, ordinances, or regulations pertaining to the particular type of work involved.
- 29. Obtain permits from the City for work in the public right—of—way.
- 30. Refer to the geotechnical report by the Soils Engineer for dewatering requirements.
- 31. The minimum depth of cover for building and canopy roof drain leaders without insulation is 5 feet. Insulate roof drain leaders at locations where the depth of cover is less than 5 feet. Provide a minimum insulation thickness o inches. The insulation must be at least 4 feet wide and centered on the pipe. Install the insulation boards 6 inche above the tops of the pipes on mechanically compacted and leveled pipe bedding material. Use high density, closed cell, rigid board material equivalent to DOW Styrofoam HI-40 plastic foam insulation.
- 32. Construct sanitary sewer, watermain, and storm sewer utilities in accordance with the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition, or the latest revised edition.
- 33. <u>Tracer Wire</u>: Locating requirements a means to locate buried underground exterior non metallic sewers/mains must be provided with tracer wire or other methods in order to be located in accord with the provisions of these code sections as per 182.0715(2r) of the statutes.
- 34. See architectural for building waterproofing and foundation drainage.
- 35. Secure and deliver to the Owner as—built information showing locations, top, and invert elevations of maintenance holes, catchbasins, cleanouts, inlet and outlet pipes, valves, hydrants, and related structures. Location ties shall be permanent landmarks or buildings.
- 36. Place #3 rebar at 3' on center in all 6" thick concrete pavement locations. Place #4 rebar at 3' on center in all 8" thick concrete pavement locations.
- 37. Place $\#4 \times 2'-0$ " tie bar at 3' on center in all concrete curb and gutter.



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DATE DESCRIPTION 8JUNE 18 SUBMITTAL 7JULYT8 SUBMITTAL

25JULY 18 ADD CANOPY
030CT 18 COMMISSION COMMENTS 3 I DEC 18 PLANNING COMMENTS

GRAPHIC

18APR2018 SP3 SHEET

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