

GENERAL NOTES AND CONDITIONS

- All earthwork, grading and paving shall be performed in accordance with WISDOT standard specifications for highway and structure construction, and all revisions and supplements thereto, and the requirements and specifications of the City of Milton.
- All sanitary sewer, water main, and storm sewer shall be constructed in accordance with the Wisconsin Department of Safety and Professional Services, safety and buildings division administrative codes, uniform dwelling code (latest edition and the standard specifications and requirements of the City of Milton. The contractor is responsible for familiarizing himself with the City of Milton requirements.
- The City of Milton building inspector must be notified at least two (2) working days prior to the commencement or resumption of any work.
- The contractor shall keep careful measurements and records of all construction and shall furnish the engineer, the owner and the City of Milton with record drawings upon completion of his work.
- The contractor shall verify the location of all utilities in the field prior to construction. This includes sanitary sewer, water main, storm sewer, telephone, electric, gas, and cable television, if any. The Diggers Hotline number is 1-800-242-8511.
- All work performed by the contractor shall come with a warranty against defects in workmanship and materials. This warranty period shall run concurrent with the required warranty periods the owner must provide to each local government agency, as a condition of the permit.
- Any excess dirt or materials shall be disposed of by the contractor offsite as directed by the developer at the contractor's expense.
- All structures, inlets, pipes, swales and roads must be kept clean and free of dirt and debris at all times.
- The contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures, and all other measures that are necessary to protect the safety of the site at all times.
- The contractor, by agreeing to perform the work, agrees to indemnify and hold harmless the owner, the engineer, the City of Milton, and all agents and assigns of those parties, from all suits and claims arising out of the performance of said work, and further agrees to defend or otherwise pay all legal fees arising out of the defense of said parties.
- All elevations are on NAVD 88 datum.
- The contractor shall field verify the elevations of the benchmarks prior to commencing work. The contractor shall also field verify the location and elevation of existing pipe inverts, curb or pavement where matching into existing work. The contractor shall field verify horizontal control by referencing property corners to known property lines. Notify the engineer of discrepancies in either vertical or horizontal control prior to proceeding.
- Property corners shall be carefully protected until they have been referenced by a professional land surveyor.
- All traffic control along the state highway must be maintained at all times in accordance with current WisDOT Standard Specifications for Highway and Structure Construction and MUTCD.

EARTHWORK, GRADING AND PAVING

- Stockpiling of soil shall be at locations approved by the owner or as shown on the drawings. Cut or fill slopes shall have a minimum ratio of 3 horizontal to 1 vertical. These slope constraints apply to temporary stock piles as well as finished slope conditions.
- Any quantities contained in these documents are approximate and estimated, and are presented as a guide to the contractor in determining the scope of work. It is the contractor's responsibility to determine all quantities and to account for all material and soil conditions.
- The contractor is responsible for maintaining positive drainage at the conclusion of each working day.
- The contractor is responsible for the final subgrade preparation, proof rolling, the pavement base, binder, and surface, and all final clean-up and related work associated with the paving operation.
- Curing and protection of all concrete shall be in strict conformance with the provisions of the current WISDOT standard specifications for highway and structure construction.
- Prior to final acceptance of work by the Owner, the site shall be clean of all debris and trash.

WDNR EROSION CONTROL NOTES

WDNR Notes. Should conflicts be found between notes in the plans and these WDNR Notes, WDNR Notes shall govern.

- Post WDNR certificate of permit coverage on site and maintain until construction activities have ceased, the site is stabilized, and a Notice of Termination is filed with WDNR.
- Keep a copy of the current erosion control plan on site throughout the duration of the project.
- Submit plan revisions or amendments to the WDNR at least 5 days prior to field implementation.
- Contractor is responsible for routine site inspections at least once every 7 days and within 24 hours after a rainfall event of 0.5 inches or greater. Keep inspection reports on-site and make them available upon request.
- Inspect and maintain all installed erosion control practices until the contributing drainage area has been stabilized.
- When possible, preserve existing vegetation (especially adjacent to surface waters), minimize land-disturbing construction activity on slopes of 20% or more, minimize soil compaction, and preserve topsoil.
- Refer to the WDNR stormwater construction technical standards at http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
- Install perimeter erosion controls and rock tracking pad construction entrance(s) (Temporary Stone Construction Entrance) prior to any land-disturbing activities, including clearing and grubbing. Use WDNR Technical Standard Stone Tracking Pad and Tire Washing #1057 for rock construction entrances.
- Install inlet protection prior to land-disturbing activities in the contributing drainage area and/or immediately upon inlet installation. Comply with WDNR Technical Standard Storm Drain Inlet Protection for construction sites #1060.
- Stage construction grading activities to minimize the cumulative exposed area. Conduct temporary grading for erosion control per WDNR Technical Standard Temporary Grading Practices for Erosion Control #1067.
- Notify City of Milton and WDNR if dewatering is scheduled to occur in areas of soil and/or groundwater contamination, or if dewatering will occur from a high capacity well (70 gpm or more). Dewater only after the appropriate WDNR dewatering discharge permit has been obtained.
- Provide anti-scor protection and maintain non-erosive flow during dewatering. Limit pumping rates to either (a) the sediment basin/trap design discharge rate, or (b) the basin design release rate with the correctly fitted hose and goeotekic filter bag. Perform dewatering of accumulated surface runoff in accordance with WDNR Technical Standard Dewatering #1061.
- Install and maintain silt fencing per WDNR Technical Standard Silt Fence #1056. Remove sediment from behind silt fences and sediment barriers before sediment reaches a depth that is equal to one-half of the fence and/or barrier height.
- Repair breaks and gaps in silt fences and barriers immediately. Replace decomposing straw bales (typical bale life is 3 months). Locate, install, and maintain straw bales per WDNR Technical Standard Ditch Checks #1062.
- Install and maintain filter socks in accordance with WDNR Technical Standard Interim Manufactured Perimeter Control and Slope Interruption Products #1071.
- Immediately stabilize stockpiles and surround stockpiles as needed with silt fence or other perimeter control if stockpiles will remain inactive for 7 days or longer.
- Immediately stabilize all disturbed areas that will remain inactive for 14 days or longer. Between September 15 and October 15: stabilize with mulch, tackifier, and a perennial seed mixed with winter wheat, annual ryegrass, or annual rye, as appropriate for region and soil type October 15 through cold weather: stabilize with a polymer and dormant seed mix, as appropriate for region and soil type.
- Stabilize areas of final grading within 7 days of reaching final grade.
- Sweep/clean up all sediment/trash that moves off-site due to construction activity or storm events before the end of the same workday or as directed by the City of Milton. Separate swept materials (soils and trash) and dispose of appropriately.
- Contractor is responsible for controlling dust per WDNR Technical Standard Dust Control on Construction Sites #1068.
- Properly dispose of all waste and unused building materials (including garbage, debris, cleaning wastes, or other construction materials) and do not allow these materials to be carried by runoff into the receiving channel.
- Coordinate with the design engineer and WDNR to update the land disturbance permit to indicate the anticipated or likely disposal locations for any excavated soils or construction debris that will be hauled off-site for disposal. The deposited or stockpiled material needs to include perimeter sediment control measures (such as silt fence, hay bales, filter socks, or compacted earthen berms).
- For non-channelized flow on disturbed or constructed slopes, provide class I, type A for slopes erosion control matting. Select erosion matting from appropriate matrix in WISDOT's WISDOT Product Acceptability List (PAL); install and maintain per WDNR Technical Standard Non-Channel Erosion Mat #1052.
- For channelized flow on disturbed or constructed areas, provide class I, type B erosion control matting. Unless otherwise specified on the plans, select erosion matting from appropriate matrix in WISDOT's WISDOT Product Acceptability List (PAL); install and maintain per WDNR Technical Standard Channel Erosion Mat #1053.
- Make provisions for watering during the first 8 weeks following seeding or planting of disturbed areas whenever more than 7 consecutive days of dry weather occur.
- Install additional erosion and sediment control measures (such as temporary sediment basins, ditch checks, erosion control matting, silt fencing, filter socks, wattles, swales, etc.), or as directed by the City of Milton or WDNR.
- The contractor is responsible for complying with all applicable WDNR remediation and waste management requirements for handling and disposing of contaminated materials. Site-specific information for areas with known or suspected soil and/or groundwater contamination can be found on WDNR's Bureau of Remediation and Redevelopment Tracking System (BRRTS) public database at: <http://dnr.wi.gov/botr/>
- Refer to the SWPPP binder if there is a discharge of sediment and/or other contaminants. A spill plan is required if there is potential to discharge contaminants to waters of the state.

CRACK SEALING REQUIREMENTS

- General construction procedures to conform to State of Wisconsin Standard Specifications, unless superseded here.
- Air temperature must be 45° A and rising at time of installation.
- All cracks shall be free of vegetation prior to cleaning and sealing.
- All cracks 1/4" wide or larger are to be cleaned and grazed prior to sealing. Contractor to make the necessary inspection of existing conditions in order to provide his bid.
- Grazing/routing shall cut a clean edge from both sides of the crack, 1/8" into the crack face.
- All cracks shall then be cleaned with compressed air. Vacuuming is also an acceptable crack cleaning method.
- Work area in vicinity of cracks to be free of blown dirt and debris to avoid contaminating cleaned crack areas.
- Sealant shall be non-applied polymeric sealant hi-spec" by WR Meadow company, parking lot sealant part No. 34200 by Crafo, Inc., or approved equivalent material. Follow product manufacturer's guidelines for preparation, material handling, and installation.
- All cracks less than 1/4" wide shall be cleaned and sealed with the sealcoat.
- Crack seal overbanding shall not exceed 1/8" in thickness and shall not be wider than 2" total width. Limit continuous flow to the actual crack.
- Verify all cracks >1/4" are filled. Reinspect after sealcoat. Follow up and re-seal any cracks missed in first application. Reseal after second crack fill operation.

EARTHWORK NOTES

- Unsuitable Materials:
Assume that all unsuitable materials are encountered and the replacement of these materials is required, this situation shall be handled as follows:
A. The site contractor shall notify the general contractor immediately. The project superintendent, prior to the undercutting being completed, shall approve any additional undercutting. The quantities shall be verified by the engineer as the additional removal is being completed.
B. If approved by the engineer, these materials shall be removed and replaced with compacted granular materials and compacted in accordance to required standards. The cost of this work shall be an extra to the contract, with the cost being adjusted by change order to be added to the contract.
C. If the site contractor is furnishing any off site materials, a representative sample of such materials shall be furnished to the general contractor's approved testing agency to determine a price.
D. These materials shall be placed as homogeneously as possible to facilitate accurate compaction and moisture testing.
- Definition for materials
A. "Organic material" is defined as material having an organic content in excess of 8% or as determined by the project owner's engineer.
B. Topsoil and the topsoil and loess (loam, sandy loam, silt loam, sandy clay loam, or clay loam).
B.1. Sand content shall generally be less than 70% by weight.
B.2. Clay content shall generally be less than 35% by weight.
B.3. Organic soils, such as peat or muck, shall not be used as topsoil.
C. Topsoil shall be relatively free from large roots, weeds, brush, or stones larger than 25 mm (1 inch). At least 90% shall pass the 2.00 mm (no. 10) sieve.
D. Topsoil pH shall be between 5.0 and 8.0. Topsoil organic content shall not be less than 1.5% by weight. Topsoil shall contain no substance that is potentially toxic to plant growth.
E. "Existing on-site material within moisture content limits" is defined as material of such a quality that the specified compaction can be met without any additional work other than "densifying" with a roller. Scarification and drying of this material will not need to be done prior to compaction.
F. "Existing on-site material NOT within moisture content limits" is defined as material with a high moisture content that can not meet specified compaction requirements without scarification and drying, chemical stabilization, etc. of this material prior to compaction.
G. "Unsuitable material" is defined as any materials that:
G.1. Cannot be utilized as "topsoil" (organic) for landscape areas.
G.2. Cannot be utilized as "engineered fill" regardless of moisture content and / or does not structurally meet the standards of the project owner's engineer's recommendations for "engineered fill".
G.3. Can be defined as natural materials or materials from "demolition" and / or excavated areas (i.e., materials that would not be suitable for "engineered fill").
H. "Off-site material" is defined as any materials that are brought from any area not indicated on this plan set.
I. "Trench backfill" shall be defined as any materials used for the purposes of backfilling any trench and / or any excavation requiring backfilling. Refer to "Standards for fill areas" to determine acceptable materials.
J. The term "stripping" or "strip" as used herein shall be defined as the removal of all "organic materials" from a given area. The term "organic materials" is defined as material having an organic content over 8% based on ASTM D2974, or as defined by the owner's engineer.
- Standards for cut areas:
A. A "cut area" is defined as any area where "engineered fill" is not required to bring the site to design subgrade elevation. Instead, excavation or "cutting" is required to achieve design subgrade elevation ("engineered fill" being defined as any material being "offsite material").
B. In "cut areas" the site contractor shall perform one of the following procedures at the discretion and in the presence of a representative of the owner's engineer and the project architect:
B.1. For exposed building or parking lot subgrades consisting primarily of granular soils, the exposed subgrade should be compacted / densified by at least one (1) pass of a smooth-drummed vibratory roller having a minimum gross weight of 10 tons.
B.2. For exposed building or parking lot subgrades consisting primarily of cohesive soils, the exposed subgrades should be proof-rolled with a fully-loaded six-wheel truck having a minimum gross weight of 25 tons. The maximum allowable deflection under the specified equipment shall be 1/2".
B.3. In the event that adequate stability of granular soils subgrades cannot be achieved by the procedures as outlined in item 1 above, or that deflections greater than 1/2" are observed during the "proof rolling" of cohesive soils subgrades (as outlined in item 2 above) additional corrective measures will be required. These measures could include, but not necessarily be limited to, scarification, moisture conditioning, re-compaction, undercutting and replacement with engineered fill or crushed stone (with or without geotextiles), or chemical stabilization.
D. It shall be considered as part of the scope of these documents (and thus part of this contractor's responsibility) to perform scarification and drying of the subgrade per Wisconsin Department of Transportation (WisDOT) standards (and thus part of this contractor's responsibility) to perform scarification and drying of the subgrade per Wisconsin Department of Transportation (WisDOT) standards (scarify a 16" depth for 3 days). If this does not work then additional drying measures shall be an extra to the contract.
E. Any proposed corrective measures by the contractor should be reviewed by the owner's engineer and the project architect. In the event that in the opinion of the owner's engineer and / or the project architect proof rolling is not a good indicator of the subgrade stability, an alternative method shall be specified by the owner's engineer and / or the project architect.
- Standards for fill areas:
A. A "fill" area is defined as any area where material is required to adjust the existing elevation to a proposed subgrade elevation (these areas require installation of "engineered fill" to achieve design subgrade elevation). "Engineered fill" material can be defined as either "granular soil" or "soil" that is either from the construction site or is "offsite material". Materials having their origin from the construction site is referred to as "borrow". The composition and the compaction standards of the engineered fill for this project will be specified by owner's engineer and the project architect.
B. In "fill" areas, "borrow" materials are allowed to be utilized as engineered fill such that the site contractor compacts the "borrow" areas to the specified compaction.
C. Compaction standards (for engineered fill and back filled areas)
A. Prior to placement of fill in areas below the design grade, the exposed subgrade should be observed by a representative of the owner's engineer to evaluate that adequate stripping has been performed. Additionally, the proof rolling or compacting procedures outlined in the "standards for cut areas" section of these notes should be performed. It is typical practice to proof roll (and densify if necessary) exposed subgrades prior to filling. If soft or unstable subgrades are observed, these areas should be stabilized or undercut. Minimum compaction standards are based upon a percentage of the fill or backfill material's maximum standard proctor dry density (ASTM D698). All engineered subgrades should meet the following minimum compaction:
A.1. Areas under foundations bases:
A.1.A. 95% [or as specified in geotechnical report] standard proctor for all fill placed below foundation base elevation in the building area.
A.2. Areas under floor slabs and above foundations/footing bases:
A.2.A. 95% [or as specified in geotechnical report] standard proctor for all fill placed more than 12 inches below final grade for support of floor slabs and above foundation base elevation in the building area.
A.2.B. 95% standard proctor [or as specified in geotechnical report] for all fill placed in the upper 12 inches of design subgrade below slabs. The granular fill under the floor slab should be compacted to a minimum of 95% standard proctor.
A.3. Areas under pavement sections:
A.3.A. 95% standard proctor [or as specified in geotechnical report] for all fill placed more than 12 inches below passenger car pavement sections and 95% standard proctor for the top 12 inches.
A.4. Landscaped areas:
A.4.A. 90% standard proctor [or as specified in geotechnical report] for all fill placed in landscape areas. These areas should be brought to grade with "topsoil" to a depth of 12 inches in areas to be seeded, 6 inches in areas to be sodded, and 24 inches for all interior curbed landscape islands.
A.5. Base course portion of pavement sections:
A.5.A. 95% standard proctor for all base course materials that are part of a "pavement section".
B. The option of utilizing the modified proctor (ASTM D1557) in lieu of the specified standard proctor (ASTM D698) shall be at the discretion of the general contractor, contingent upon written approval by the architect and owner's engineer.
C. All backfill and fill materials shall be placed in lifts not greater than 8" in loose depth. Before compacting, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum density of the area.
7. Finish grading:
A. The term "finish grading" as used herein shall be defined as that condition that areas not receiving a finish product such as parking areas, driveways, roadways, sidewalks, etc. are finished and areas would require "landscaping" such as seed, sod, trees, bushes, mulch, etc.
B. The site contractor is responsible for "finish grading" all areas within the perimeter of the "construction site". The definition of the "construction site" is the area encompassing all disturbed areas that were disturbed as a result of the construction process relating to the general contract of which this site contract was part of.

DEMOLITION NOTES

- The contractor shall be responsible for the demolition and removal of all items that impede the proper placement of any items proposed by this plan set.
- The removal work shall include but not be limited to: obtaining all demolition permits required, removal of the existing trees, sealing of the existing water well(s), removal any septic system or dry wells (if any) and other items to complete the removals.
- The contractor shall remove all materials deemed unsuitable by the engineer within eight inches of the proposed building footprint to the depth that such unsuitable materials exist. Voids shall be filled in accordance with the "Earthwork Notes" on this plan sheet.
- Tree removal shall include the complete removal of all trees as indicated in the plan set.
- The contractor shall coordinate disconnection, removal, and relocation of the existing utilities with the appropriate utility companies. The contractor shall be responsible for all fees that are levied by utility companies in conjunction with demolition and removal of existing utilities.
- Disposal of all materials shall comply with all local, state, and federal regulations. All waste material shall be disposed of off-site. The contractor shall be responsible for the removal of all materials from the site, including all associated permits and regulatory requirements.
- The contractor shall be familiar with the appropriate specifications for well abandonment, materials, procedures, and access to equipment required to properly seal wells (if any). The contractor shall be responsible to obtain, complete, and file the appropriate forms through the City of Milton and the Wisconsin Department of Natural Resources (WDNR).
- The contractor shall maintain all existing utility services to adjacent lots. Interruption of services to adjacent lots shall not occur without proper approval. A minimum of 48 hours notice shall be given to the property owners prior to the connection of the new services. The contractor shall be responsible for costs associated with the connection of temporary utility services, if required, to facilitate construction staging.
- The contractor shall ensure that all existing parking, sidewalks, drives, etc., are free and clear of any construction activity and / or excavated and hauled material to ensure easy and safe pedestrian and vehicular traffic to and from adjacent sites.
- The contractor shall perform a full-depth saw cut along the perimeter of pavement removal that abuts existing pavement that is to remain.
- Any damage sustained by items that are to remain in place shall be repaired or replaced to the owner's satisfaction at no cost to the owner.

SEALCOAT APPLICATION REQUIREMENTS

- General construction procedures to conform to State of Wisconsin Standard Specifications, as applicable.
- Air temperature must be 50° A and rising at the time of seal coat application.
- Contractor shall clean entire surface area to be sealed with a power broom or compressed air.
- Contractor shall perform any crack filling operation for visible cracks >1/4" in advance of sealcoat application.
- Contractor shall apply 2 coats of coal tar emulsion asphalt sealer. Sealer shall contain 3 pounds of sand per gallon of sealer. Application rate shall be per the manufacturer specifications for this product. A latex additive is required per ASTM D5727 (2 gal/100 gal)
- The actual area sealed shall be according to the limits on the plans and the final area will not be measured for payment. Contractor shall inspect the existing conditions prior to his bid.
- Edge treatment - hand apply edges or use a board to prevent over-spray on adjacent sidewalks, curbs, or grass.
- First coat to be hand applied or machine-squeegee applied. Second coat can be hand applied, machine squeegee applied or spray applied.
- First coat to be dry (Track free) prior to application of second coat.

GENERAL PAVING NOTES

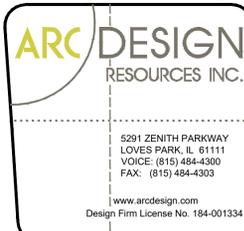
- All pavement shall be constructed in accordance with the following:
A. Concrete pavement shall be constructed in accordance with the Wisconsin Department of Transportation (WisDOT) (Standard Specifications), latest edition, including all updates and standards thereto.
B. Standards and requirements of the City of Milton.
C. Additional details and requirements provided in the contract documents, including this plan set.
- All proposed pavement areas shall be stripped of all topsoil and unsuitable material and excavated or filled to within 0.10 feet of design subgrade.
- The subgrade of pavement areas shall be free of all unsuitable material and shall be compacted to a minimum 98 percent of Standard proctor density.
- The subgrade shall be proof rolled and inspected prior placing base material. Inspection and approval of the subgrade and subbase by the general contractor is required. Notify the engineer at least 48 hours prior to finished subgrade preparation.
- The earthwork contractor shall be responsible for removal of spoil material from the underground contractors, preparing the roadway subgrade, proof rolled, placing topsoil to a minimum depth of 3 inches to finished grade in the parkways areas only, grading of drainage swales, and all other tasks as directed by the owner or engineer.
- The quantities contained in these documents are approximate and estimated, and are presented as a guide to the contractor in determining the scope of work. It is the contractor's responsibility to determine all quantities and to become familiar with the site and soil conditions.
- The Paving Contractor is responsible for the final subgrade preparation, proof rolling, the pavement base, binder, and surface, and all final clean-up and related work associated with the paving operation.
- The proposed pavement shall be of the type and thickness as specified in the engineering drawings, and constructed in strict conformance with the previously referenced WisDOT standard specifications and the City of Milton.
- Areas of deficient paving, including compaction, smoothness, thickness, and asphalt mixture, shall be delineated, removed, and replaced in compliance with Specifications requirements unless corrected otherwise as directed and approved by the owner.
- Field quality control tests specified herein will be conducted by the owner's Independent Testing Laboratory (ITL) at no cost to the contractor. Any testing and inspection resulting from the requirements of necessary permits by the City of Milton or the State of Wisconsin shall be at the contractor's expense. The contractor shall perform additional testing as considered necessary by the contractor for assurance of quality control. Retesting required as a result of failed initial tests shall be at the contractor's expense.
A. Field testing, frequency, and methods may vary as determined by and between the owner, the ITL and City of Milton.
B. Testing shall be performed on finished surface of each asphalt concrete course for smoothness, using 10' 0" straightedge applied parallel with, and at right angles to centerline of paved area. The following tolerances in 10 ft shall not be exceeded: Base Course Surface: 1/4-inch, Wearing Course Surface: 1/8-inch.
C. No ponding shall occur on paved surfaces. Refer to "General Notes" in this plan set.

STORM SEWER NOTES

- Storm sewer shall be constructed in accordance with the following:
A. All applicable state and local storm sewer codes (but not limited to State of Wisconsin Facility Development Manual)
B. Storm sewer shall be constructed in accordance with the Wisconsin Department of Transportation (WisDOT) (Standard Specifications), latest edition, including all updates and standards thereto.
C. Standards and requirements of the City of Milton.
D. Additional details and requirements provided in the contract documents, including this plan set.
Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
- Material Specifications. All storm sewer system elements shall conform to the following specifications:
A. Sewer Pipe. All storm sewer pipe shall be HDPE unless otherwise specifically noted in this plan set. All sewer pipe shall meet the requirements of Section 608 Storm Sewers of the Wisconsin Department of Transportation's Standard Specifications.
a. Corrugated polyethylene pipes--AASHTO M294 S
b. Sump pump service connection and storm sewer extension (4" and 6")--ABS sewer pipe or PVC sewer pipe ASTM D2751, SDR35, or ASTM D3034, SDR35, respectively.
c. Concrete sewer pipe (10" diameter and smaller), minimum Class 3, ASTM C14.
d. Reinforced concrete pipe (12" diameter and larger), circular reinforcement, minimum Class 3, wall B, ASTM C76.
e. Reinforced concrete arch culvert pipe--double line reinforcement, minimum Class 3, ASTM C506.
f. Reinforced concrete elliptical culvert pipe--minimum Class HE-III or VE-III, ASTM C507.
g. PVC underdrain pipe (4" and 6")--ASTM D2729, SDR35.
h. Galvanized corrugated steel culvert pipe AASHTO M246, Type B, minimum wall thickness 14 gauge (shall only be used for culverts).
B. Sewer Pipe Joints
a. ABS pipe--ASTM C443.
b. PVC pipe--ASTM D3212, push-on type, except underdrain pipe which shall have solvent welded joints.
c. Reinforced concrete pipe--ASTM C443 ("O" ring).
d. Reinforced arch or elliptical pipe--ASTM C877.
C. Casing Pipes. Steel pipe--ASTM A120, 3/8" minimum thickness.
D. Manholes and Catch Basins.
a. Precast reinforced concrete--ASTM C478.
b. Size:
b.1. For sewer eighteen inches in diameter or less, manhole shall have a forty-eight inches inside diameter.
b.2. For sewer twenty-one to thirty-six inches in diameter, manhole shall have a sixty inch inside diameter.
b.3. For sewer greater than thirty-six inches in diameter, manhole shall have an offset riser pipe of forty-eight inches inside diameter.
c. Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
d. Pipe and frame seals: All pipe connection openings shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
e. Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
E. Inlets.
a. Precast reinforced concrete--ASTM C478 and ASTM C443.
b. Size: Inlets shall have a twenty-four inch inside diameter and a maximum depth of four feet.
c. Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
d. Only one pipe connection is allowed, and it shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
e. Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
F. Castings (Unless otherwise noted within the plans)
Manhole frame and cover--Use area inlet as listed below unless specified as a "closed lid" in this plan set. Closed lid frame and covers shall be Neenah No. R-1772-C embossed "STORM SEWER".
a. Manhole steps--Neenah No. R-1981-1.
b. Six inch curb and gutter inlet--Neenah No. R-3032.
c. Yard inlet--Neenah No. R-2579.
d. Parking lot inlet--Neenah No. R-2450.
G. Crushed Granular Bedding: Crushed gravel or crushed stone course aggregate--ASTM C33, Size No. 67.
3. All end sections 24" and greater shall come equipped with trash grate and toe block in compliance with Wisconsin Department of Transportation standard.
4. Inspect pipe for defects and cracks before being lowered into the trench, piece by piece. Remove and replace defective, damaged or unsound pipe or pipe that has had its grade disturbed after laying. Protect open ends with a stopper to prevent earth or other material from entering the pipe during construction. Remove dirt, excess water, and other foreign materials from the interior of the pipe during the pipe laying process.
5. Install pipe in accordance with manufacturer's written recommendations.
6. Commence installation at the lowest point for each segment of the route. Lay RCP with the groove or bell end up-stream.
7. Lay pipe to the required line and slope gradients with the necessary fittings, bends, manhole, risers and other appurtenances placed at the required location as noted on Drawings.
8. All storm sewers under and within two feet of any existing or proposed pavement shall be backfilled with granular backfill material meeting Wisconsin standard specifications (WisDOT 17 Spec - Section 209/AASHTO T27).
9. Compact backfill to 98 percent of maximum density in accordance with ASTM D698, (or 95 percent of maximum density, in accordance with ASTM D1557) obtained at optimum moisture as determined by AASHTO T180.
10. Do not backfill trenches until required tests are performed and utility systems comply with and are accepted by applicable governing authorities.
11. Backfill trenches to contours and elevations shown on the drawings.
12. As per State of Wisconsin statutes SPS 382.30(11)(h), SPS 382.36(7)(d)10.a, and SPS 382.40(8)(k), a means to locate buried underground exterior non-metallic sanitary and storm sewers/main and water services/main must be provided with tracer wire or other methods in order to be located with the provisions of these code sections as per 182.0715(2r) of these statutes.
13. As per State of Wisconsin 384.30(3)(c), storm sewer building pipes shall conform to on of the standards listed in Table 384.30-6.

PAVEMENT MARKING NOTES

- Apply two (2) coats for all pavement markings.
- Material description: a fast drying, high riding marking paint for concrete, brick and bituminous surface. This product has been designed for painting centerlines and edgelines of highways, City crosswalks and stop zones, parking lots, traffic aisles, etc. Do not apply to in temperatures below 50 F.



PROJECT NAME
OWNER'S NAME

REMODELING FOR
UNITED UNION OF
ROOFERS
WATERPROOFERS &
ALLIED WORKERS
LOCAL #11

222 SUNNYSIDE DRIVE
MILTON, WI 53563

CONSULTANTS



ISSUED FOR	DATE
1. CLIENT REVIEW	02/07/2020
2. CLIENT REVIEW	03/14/2020
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4. CLIENT REVIEW	03/04/2020
5. ADDENDUM #1	03/24/2020
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7. VENDOR COMMENTS	04/23/2020
8. FOR CONSTRUCTION	05/05/2020
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REVISIONS	DATE
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SHEET TITLE

GENERAL NOTES

DRAWN TRF
CHECKED RGS
PM JSL

PROJECT NUMBER
SHEET NUMBER

20005

C1

LEGEND

SEE SITE PLAN SET FOR EXISTING SYMBOLS

EROSION DETAILS (SEE SWPPP DETAILS SHEET FOR ITEMS BELOW)

- PROPERTY LINE
- - - - - LIMITS OF DISTURBANCE
- PERMANENT STORM SEWER
- 800— PROPOSED CONTOUR LINE
- - - - - EXISTING CONTOUR LINE
- 800— EDGE OF PAVEMENT
- ⊙ PROPOSED MANHOLE
- DIRECTION OF OVERLAND FLOW
- (X.XX) SEE SPECIFIC KEY NOTE ON THIS SHEET

- 1.01 (CE) [Symbol] TEMPORARY STONE TRACKING PAD
- 1.02 (SF) [Symbol] TEMPORARY SILT FENCE
- 1.03 (IP) [Symbol] INLET PROTECTION PER STRUCTURE TYPE
- (WO) [Symbol] CONCRETE WASHOUT
- 1.04 [Symbol] TURF AREA
- (CD) [Symbol] TEMPORARY CHECK DAM

EROSION CONTROL REFERENCE NOTES

- 1.01 SEE CONSTRUCTION EXIT DETAIL. THE CONSTRUCTION EXIT SHALL BE A MINIMUM OF 24" IN WIDTH AND 50' FEET IN LENGTH FROM EXISTING PAVED SURFACE. ALL CONSTRUCTION TRAFFIC MUST UTILIZE CONSTRUCTION EXITS PER DETAIL TO ACCESS THE PUBLIC ROAD. DURING CONSTRUCTION, THE CONSTRUCTION EXITS MAY BE SHIFTED AT THE CONTRACTOR'S DISCRETION TO FACILITATE GRADING OPERATION. EXIT MUST TERMINATE AT EXISTING PAVED SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE RUNOFF FROM THE CONSTRUCTION EXIT IS DIRECTED BACK TOWARD THE SITE OR THAT THE RUNOFF IS CLEAR OF SEDIMENT.
- 1.02 THE CONTRACTOR MAY PERMANENTLY REMOVE ANY PORTION OF THE PERIMETER SILT FENCE AFTER ESTABLISHMENT OF FINAL GRADE AND/OR FINAL STABILIZATION RENDERS THE RESPECTIVE PORTION OF THE PERIMETER SILT FENCE UPSTREAM OF A DISTURBANCE AND/OR INEFFECTIVE AS A BEST MANAGEMENT PRACTICE. ANY SUCH REMOVAL SHALL BE NOTED ON THE SWPPP SITE MAPS ALONG WITH UPSTREAM STABILIZATION AND GRADING CONDITIONS.
- 1.03 NO STRUCTURE SHALL BE ALLOWED TO BE PROTECTED WITH ANY MEASURE OTHER THAN THOSE DETAILED IN THIS SWPPP SITE MAP FOR MORE THAN 48 HOURS OR IF RAIN IS IMMINENT. STRUCTURES THAT WILL NOT RECEIVE A CASTING WITHIN 48 HOURS OF INSTALLATION SHALL RECEIVE INLET PROTECTION. UPON INSTALLATION OF THE GRATE, INLET PROTECTION SHALL BE INSTALLED RESPECTIVE TO THE TYPE OF GRATE. STRUCTURES WITH CLOSED LIDS WILL NOT REQUIRE PROTECTION FOLLOWING INSTALLATION OF LID. CONTRACTOR SHALL NOTE THE STRUCTURE INSTALLATION (AND PROTECTION INSTALLATION, INCLUDING TYPES OF PROTECTION) ARE EMPLOYED. WHENEVER PIPE INSTALLATION IS HALTED FOR MORE THAN 24 HOURS OR WHEN RAIN IS IMMINENT, THE OPEN END SHALL BE PROTECTED WITH A TEMPORARY BULK HEAD. A 3/4" SHEET OF PLYWOOD THAT EXTENDS 6" BEYOND THE OUTSIDE DIAMETER OF THE PIPE SHALL BE PLACED AGAINST THE EXPOSED PIPE END. GRAVEL SHALL BE PLACED AGAINST THE PLYWOOD IN SUFFICIENT QUANTITY SO AS TO ENSURE THE TIGHTEST POSSIBLE SEAL. THE TRENCH SHALL BE DEWATERED PRIOR TO REMOVING THE BULKHEAD.
- 1.04 PERMANENT EROSION CONTROL FABRIC NAG S150 SHALL BE APPLIED TO ALL DISTURBED TURF AREAS ALONG WITH PERMANENT SEEDING. FOLLOW MANUFACTURER SPECIFICATIONS FOR INSTALLATION. CONTRACTOR SHALL NOTE ALL AREAS WHERE NAG SC150 HAS BEEN INSTALLED RELATIVE TO ASBUILT GRADES AND FURNISH THESE BOUNDARIES TO THE CIVIL ENGINEER UPON REQUEST. PERMANENT SEEDING SHOULD BE PLANTED AS SOON AS IT IS PRACTICAL TO ENSURE PROPER GERMINATION PRIOR TO TERMINATION OF PERMIT COVERAGE. THE CONTRACTOR SHALL PLANT PERMANENT SEEDING AS SOON AS FINAL GRADES ARE ESTABLISHED AS SPECIFIED ON THE GRADING PLAN. SEE SITE LANDSCAPING PLAN (IF AVAILABLE) FOR EXACT GROUND COVER TYPE AND LOCATION.
- 1.05 OFFSITE UTILITY TRENCHING SPOLLS MUST BE TREATED AS STOCKPILES FOR SWPPP PURPOSES. BMP'S MUST PROTECT THE SIDE OF THE SPOIL STOCKPILE THAT IS FARTHEST AWAY FROM THE TRENCH. INTERMEDIATE BMP'S SHALL BE LOCATED IN THE FIELD TO PREVENT DOWNSTREAM SEDIMENT RUNOFF. NO MORE THAN 100 LF OF TRENCH MAY REMAIN OPEN AT ANY ONE TIME. CONTRACTOR IS RESPONSIBLE FOR RESTORING GRADE AND VEGETATION THROUGHOUT THE DISTURBED AREA. THE CONTRACTOR SHALL ENSURE THAT THE OFFSITE WORK ZONES POSE NO PUBLIC SAFETY HAZARDS.
- 1.06 CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF WISCONSIN NPDES GENERAL PERMIT AND THE SITE NOI.

BENCHMARKS	
DESCRIPTION	ELEVATION (USGS)
BENCHMARK 1 SOUTHEAST BOLT ON FIRE HYDRANT LOCATED APPROXIMATELY 25' EAST OF SUNNYSIDE DRIVE & AND 290' SOUTH OF EAST STORRS LAKE ROAD &	877.54
BENCHMARK 2 RAILROAD SPIKE ON UTILITY POLE LOCATED APPROXIMATELY 30' WEST OF SUNNYSIDE DRIVE & AND 470' SOUTH OF EAST STORRS LAKE ROAD &	877.36

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SHEET TITLE

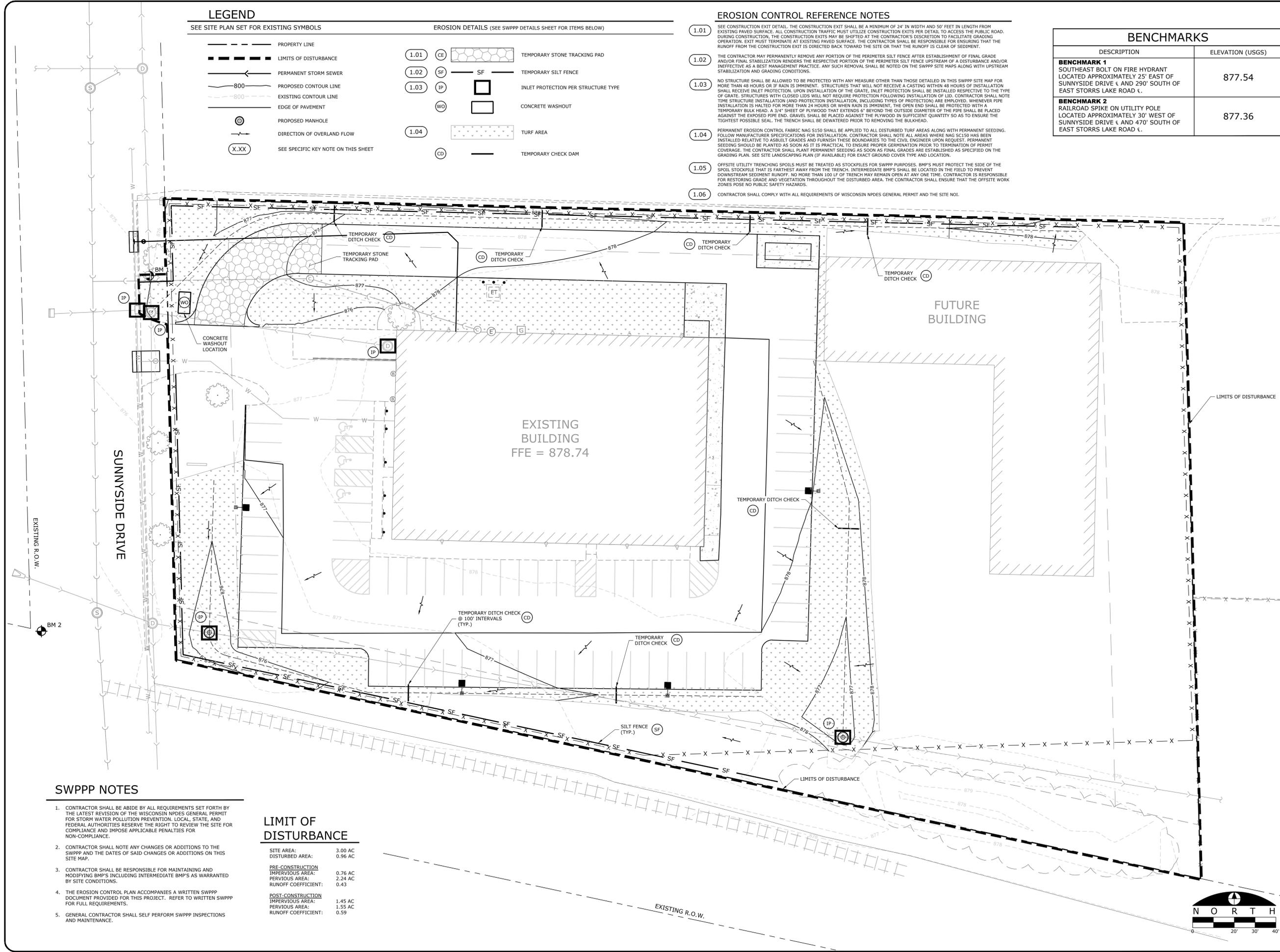
SWPPP SITE MAP

DRAWN	TRF
CHECKED	RGS
PM	JSL

PROJECT NUMBER
SHEET NUMBER

20005

C2



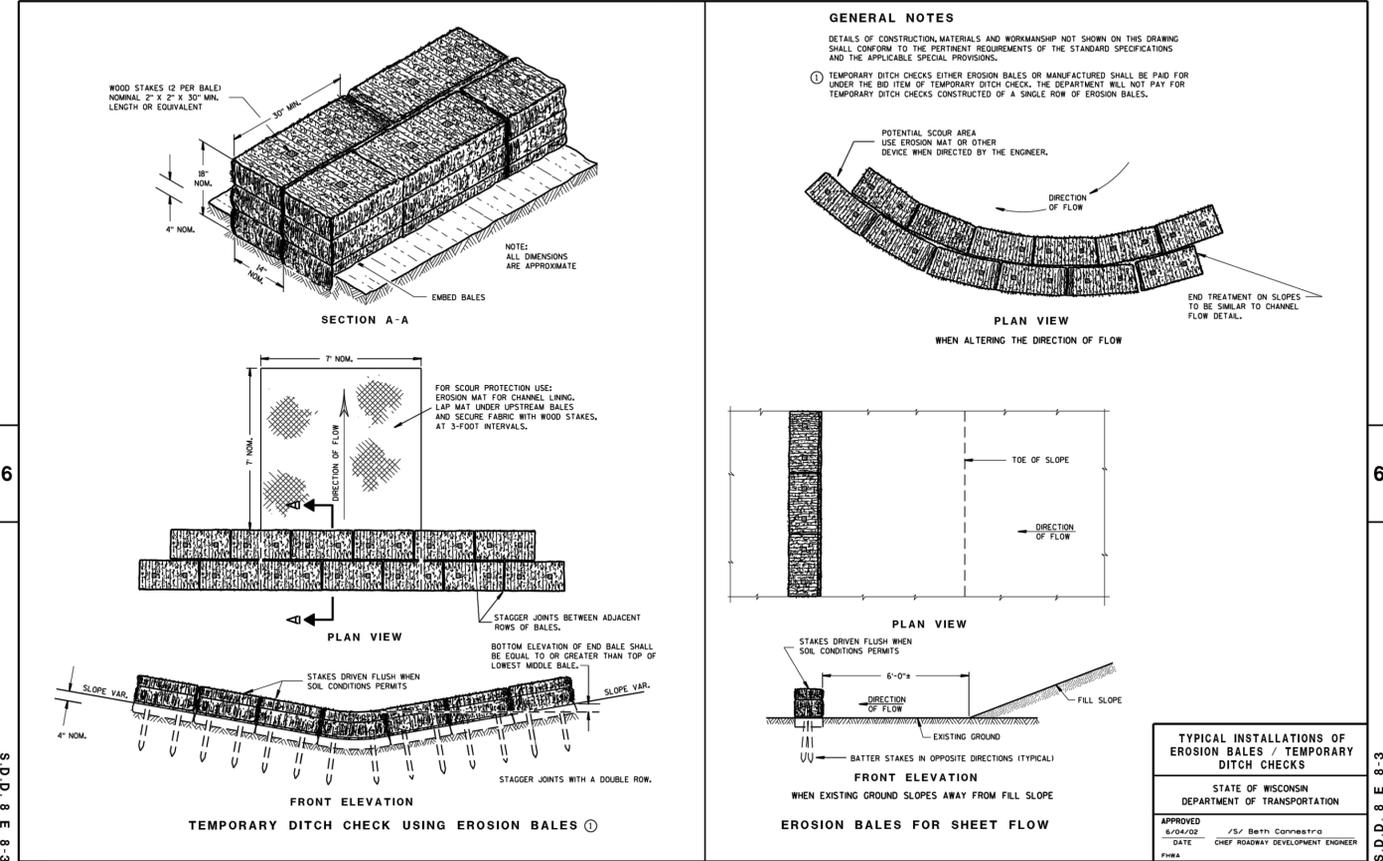
SWPPP NOTES

- CONTRACTOR SHALL BE ABIDE BY ALL REQUIREMENTS SET FORTH BY THE LATEST REVISION OF THE WISCONSIN NPDES GENERAL PERMIT FOR STORM WATER POLLUTION PREVENTION. LOCAL, STATE, AND FEDERAL AUTHORITIES RESERVE THE RIGHT TO REVIEW THE SITE FOR COMPLIANCE AND IMPOSE APPLICABLE PENALTIES FOR NON-COMPLIANCE.
- CONTRACTOR SHALL NOTE ANY CHANGES OR ADDITIONS TO THE SWPPP AND THE DATES OF SAID CHANGES OR ADDITIONS ON THIS SITE MAP.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND MODIFYING BMP'S INCLUDING INTERMEDIATE BMP'S AS WARRANTED BY SITE CONDITIONS.
- THE EROSION CONTROL PLAN ACCOMPANIES A WRITTEN SWPPP DOCUMENT PROVIDED FOR THIS PROJECT. REFER TO WRITTEN SWPPP FOR FULL REQUIREMENTS.
- GENERAL CONTRACTOR SHALL SELF PERFORM SWPPP INSPECTIONS AND MAINTENANCE.

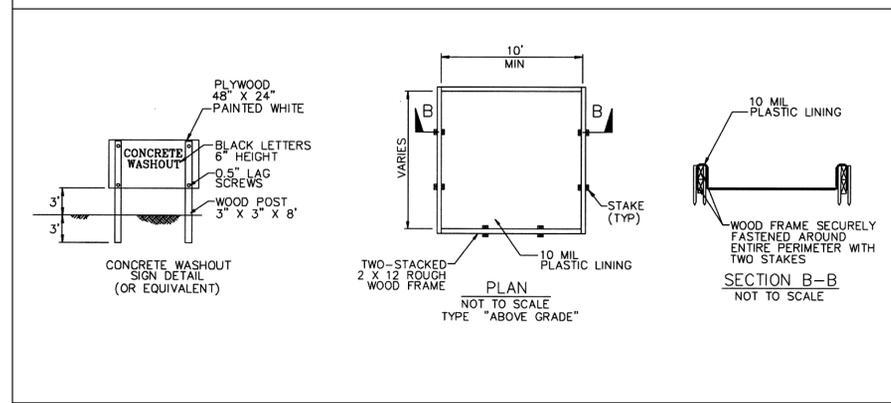
LIMIT OF DISTURBANCE

SITE AREA:	3.00 AC
DISTURBED AREA:	0.96 AC
PRE-CONSTRUCTION	
IMPERVIOUS AREA:	0.76 AC
PERVIOUS AREA:	2.24 AC
RUNOFF COEFFICIENT:	0.43
POST-CONSTRUCTION	
IMPERVIOUS AREA:	1.45 AC
PERVIOUS AREA:	1.55 AC
RUNOFF COEFFICIENT:	0.59

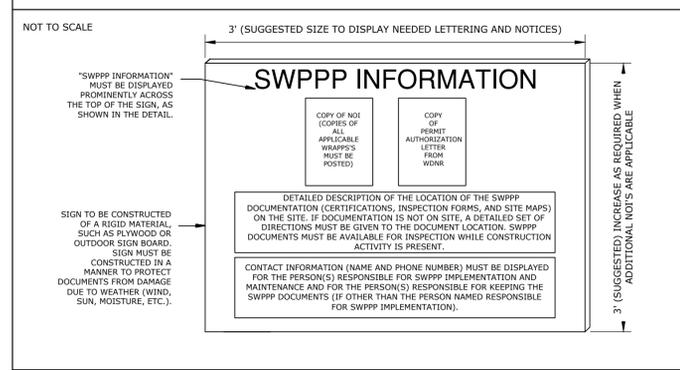
SDD 8e8 Typical Installations of Erosion Bales/Temporary Ditch Checks



CONCRETE TRUCK WASHOUT DETAIL



SWPPP INFORMATION SIGN



CONSTRUCTION SCHEDULE

- BEGIN CONSTRUCTION: 5/1/20 - 7/15/20**
- PLACE EROSION CONTROL MEASURES
 - EARTHWORK
 - DRAINAGE SWALES
 - STORM SEWER AND UNDERDRAINS
 - PROPOSED BUILDING
- PAVING: 7/15/20 - 8/15/20**
- AGGREGATE BASE
 - CRACK FILL AND SEAL COAT EXISTING PAVEMENT
 - PAVING OF BINDER AND SURFACE COURSE
- RESTORATION: 8/15/20 - 9/30/20**
- EROSION MATTING
 - SEEDING
- END CONSTRUCTION: 9/30/20**

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PROJECT NAME
 OWNER'S NAME
REMODELING FOR UNITED UNION OF ROOFERS WATERPROOFERS & ALLIED WORKERS LOCAL #11
 222 SUNNYSIDE DRIVE
 MILTON, WI 53563

CONSULTANTS
CORD CONSTRUCTION CO.

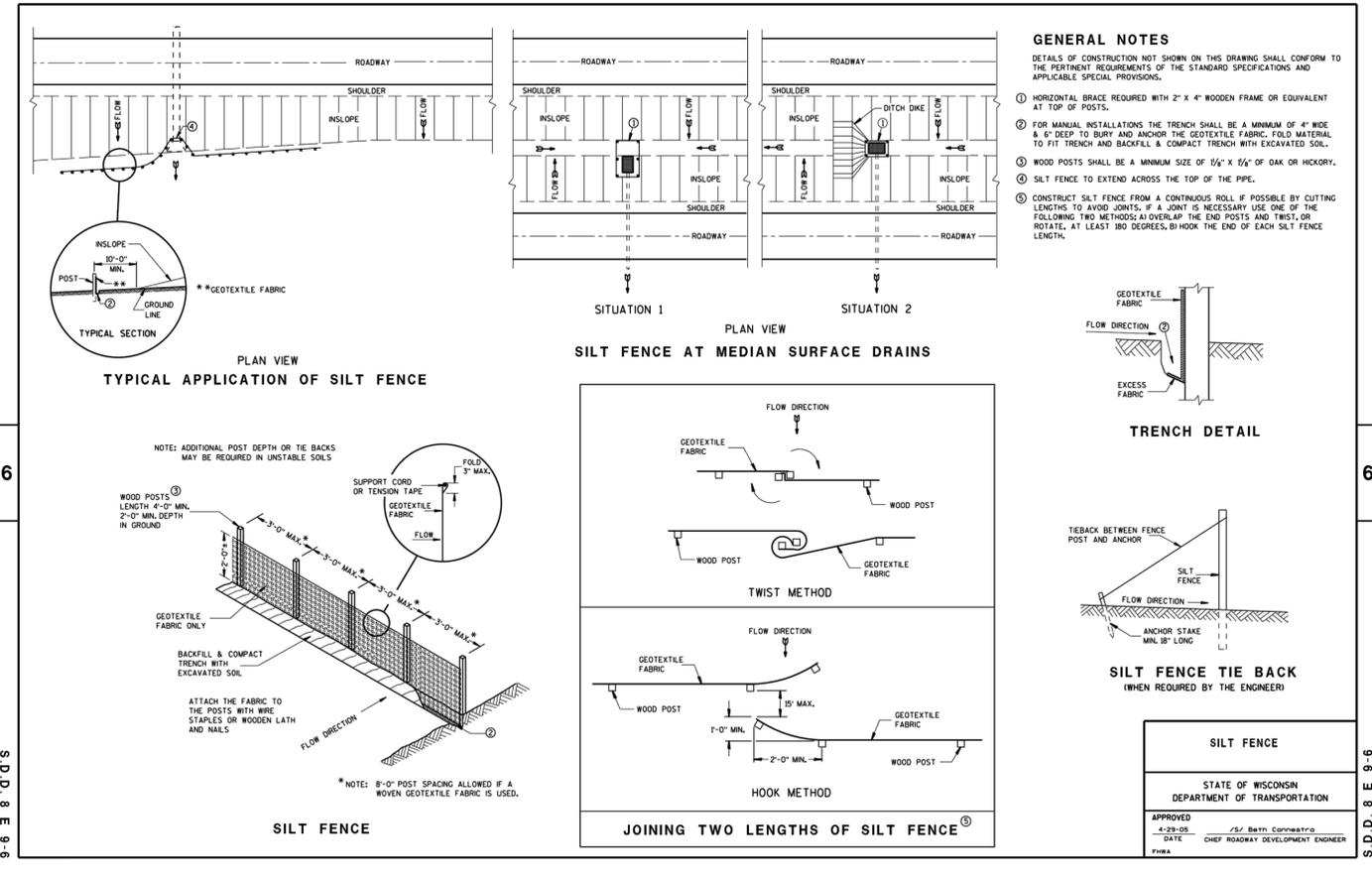
ISSUED FOR

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SDD 8e9 Silt Fence



SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
TEMPORARY CONSTRUCTION EXITS																			
TEMPORARY CONTROL MEASURES																			
SEDIMENT CONTROL BASINS																			
STRIP & STOCKPILE TOPSOIL																			
ROUGH GRADE																			
STORM FACILITIES																			
SITE CONSTRUCTION																			
PERMANENT CONTROL STRUCTURES																			
FOUNDATION / BUILDING CONSTRUCTION																			
FINISH GRADING																			
LANDSCAPING/SEED/FINAL STABILIZATION																			

1) CONTRACTOR SHALL UPDATE THE TABLE BY SHADING OR DATING THE APPLICABLE ACTIVITIES AS PROJECT PROGRESSES. 2) TIME SCHEDULE MUST COINCIDE WITH SEQUENCE OF CONSTRUCTION.

SEQUENCE OF CONSTRUCTION

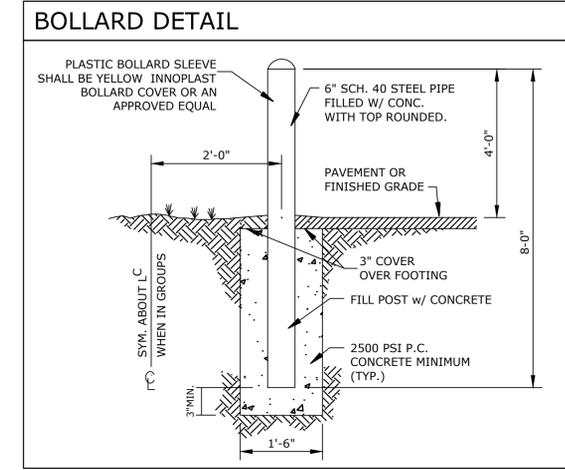
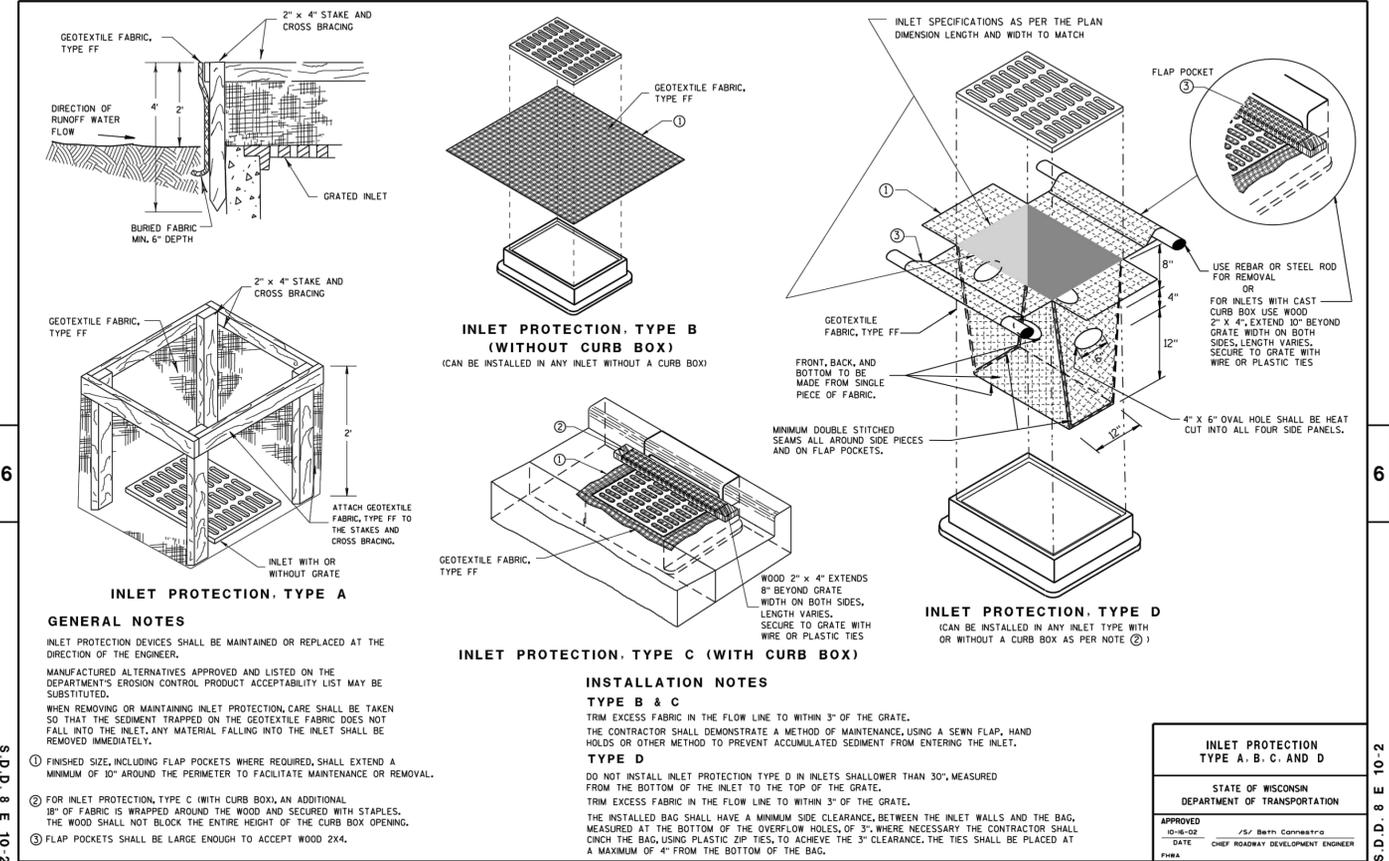
- PREPARE TEMPORARY PARKING AND STORAGE AREA, UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
- CONSTRUCT THE SILT FENCES ON THE SITE. INSTALL INLET PROTECTION DEVICES IN EXISTING STRUCTURES.
- BEGIN SITE DEMOLITION, REMOVALS, AND GRADING.
- TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
- BEGIN ROUGH GRADING BEGINNING WITH ESTABLISHING SWALES.
- INSTALL STORM SEWER STRUCTURES. INSTALL INLET PROTECTION CONCURRENTLY.
- PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
- PREPARE AREA OF SITE FOR PAVING AND PAVE THE SITE.
- COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED.)

SHEET TITLE
SWPPP DETAILS 1

DRAWN: TRF
 CHECKED: RGS
 PM: JSL

PROJECT NUMBER
 SHEET NUMBER
20005
C3

SDD 8e10 Inlet Protection Type A, B, C and D



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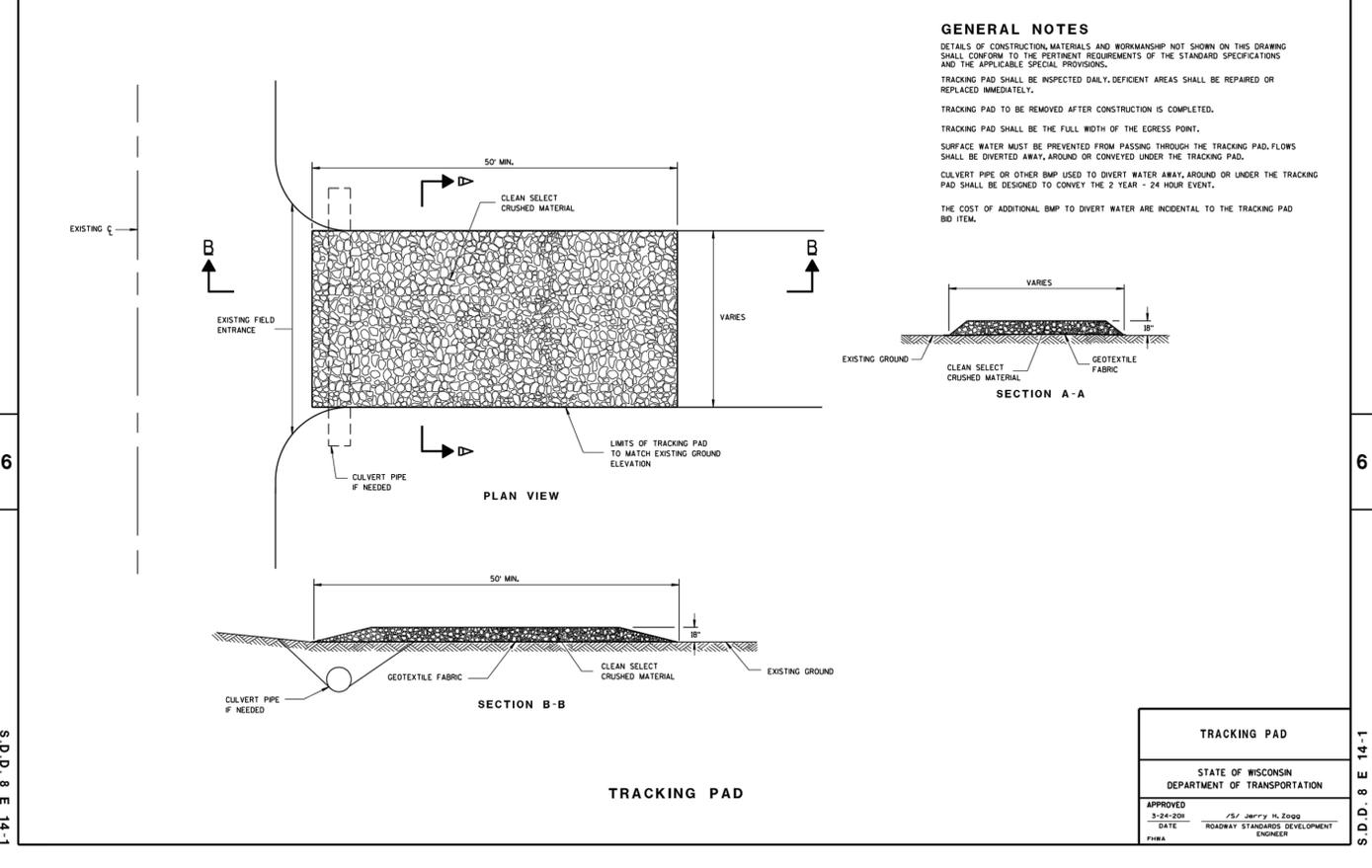
CONSULTANTS

CORD CONSTRUCTION CO.

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2. ADDENDUM #2	03/31/2020
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SDD 8e14 Tracking Pad



SHEET TITLE

SWPPP DETAILS 2

DRAWN	TRF
CHECKED	RGS
PM	JSL

PROJECT NUMBER
SHEET NUMBER

20005

C4

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**REMODELING FOR
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LOCAL #11**

222 SUNNYSIDE DRIVE
MILTON, WI 53563

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SHEET TITLE

LAYOUT PLAN

DRAWN: TRF
CHECKED: RGS
PM: JSL

PROJECT NUMBER
SHEET NUMBER

20005

C6

LEGEND

	EXISTING EDGE OF PAVEMENT		NUMBER OF PROPOSED PARKING SPACES PAINTED YELLOW STRIPES
	EXISTING FENCE		BENCHMARK
	PROPOSED FENCE		EXISTING SIGN
	PROPOSED EDGE OF PAVEMENT		PROPOSED SIGN
	HOT MIX ASPHALT PAVEMENT, 3" CRUSHED LIMESTONE BASE COURSE, 10" (BASE BID)		EXISTING TREE
	HOT MIX ASPHALT PAVEMENT, 4.5" CRUSHED LIMESTONE BASE COURSE, 12" (ALTERNATE 1)		PROPERTY LINE
	HOT MIX ASPHALT PAVEMENT, 3" CRUSHED LIMESTONE BASE COURSE, 10" (ALTERNATE 2)		RIGHT OF WAY LINE
	PCC PAVEMENT, 8" CRUSHED LIMESTONE BASE COURSE, 6"		SETBACK LINE
	PROPOSED STRIPING		EASEMENT LINE
			LOT LINE
			LIGHT POLE AND FIXTURE

LAYOUT NOTES

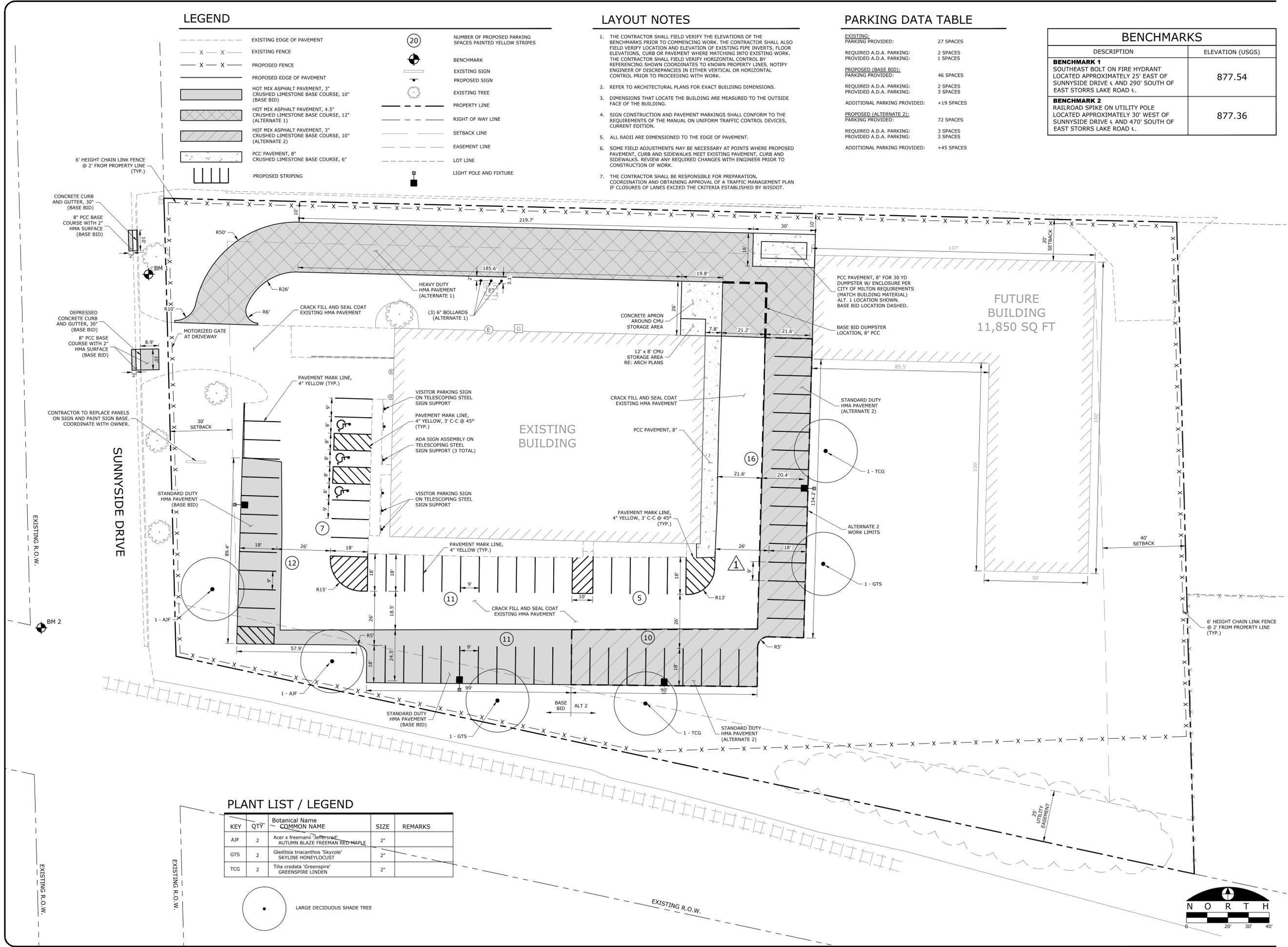
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
- DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
- SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- ALL RADII ARE DIMENSIONED TO THE EDGE OF PAVEMENT.
- SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED PAVEMENT, CURB AND SIDEWALKS MEET EXISTING PAVEMENT, CURB AND SIDEWALKS. REVIEW ANY REQUIRED CHANGES WITH ENGINEER PRIOR TO CONSTRUCTION OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, COORDINATION AND OBTAINING APPROVAL OF A TRAFFIC MANAGEMENT PLAN IF CLOSURES OF LANES EXCEED THE CRITERIA ESTABLISHED BY WISDOT.

PARKING DATA TABLE

EXISTING PARKING PROVIDED:	27 SPACES
REQUIRED A.D.A. PARKING:	2 SPACES
PROVIDED A.D.A. PARKING:	1 SPACE
PROPOSED (BASE BID) PARKING PROVIDED:	46 SPACES
REQUIRED A.D.A. PARKING:	2 SPACES
PROVIDED A.D.A. PARKING:	3 SPACES
ADDITIONAL PARKING PROVIDED:	+19 SPACES
PROPOSED (ALTERNATE 2) PARKING PROVIDED:	72 SPACES
REQUIRED A.D.A. PARKING:	3 SPACES
PROVIDED A.D.A. PARKING:	3 SPACES
ADDITIONAL PARKING PROVIDED:	+45 SPACES

BENCHMARKS

DESCRIPTION	ELEVATION (USGS)
BENCHMARK 1 SOUTHEAST BOLT ON FIRE HYDRANT LOCATED APPROXIMATELY 25' EAST OF SUNNYSIDE DRIVE & AND 290' SOUTH OF EAST STORRS LAKE ROAD &	877.54
BENCHMARK 2 RAILROAD SPIKE ON UTILITY POLE LOCATED APPROXIMATELY 30' WEST OF SUNNYSIDE DRIVE & AND 470' SOUTH OF EAST STORRS LAKE ROAD &	877.36



PLANT LIST / LEGEND

KEY	QTY	Botanical Name COMMON NAME	SIZE	REMARKS
AJF	2	Acer x freemanii 'Jeffersred' AUTUMN BLAZE FREEMAN RED MAPLE	2"	
GTS	2	Gleditsia triacanthos 'Skycole' SKYLINE HONEYLOCUST	2"	
TCG	2	Tilia crodata 'Greenspire' GREENSPIRE LINDEN	2"	



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SHEET TITLE

GRADING PLAN

DRAWN _____ TRF
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PM _____ JSL

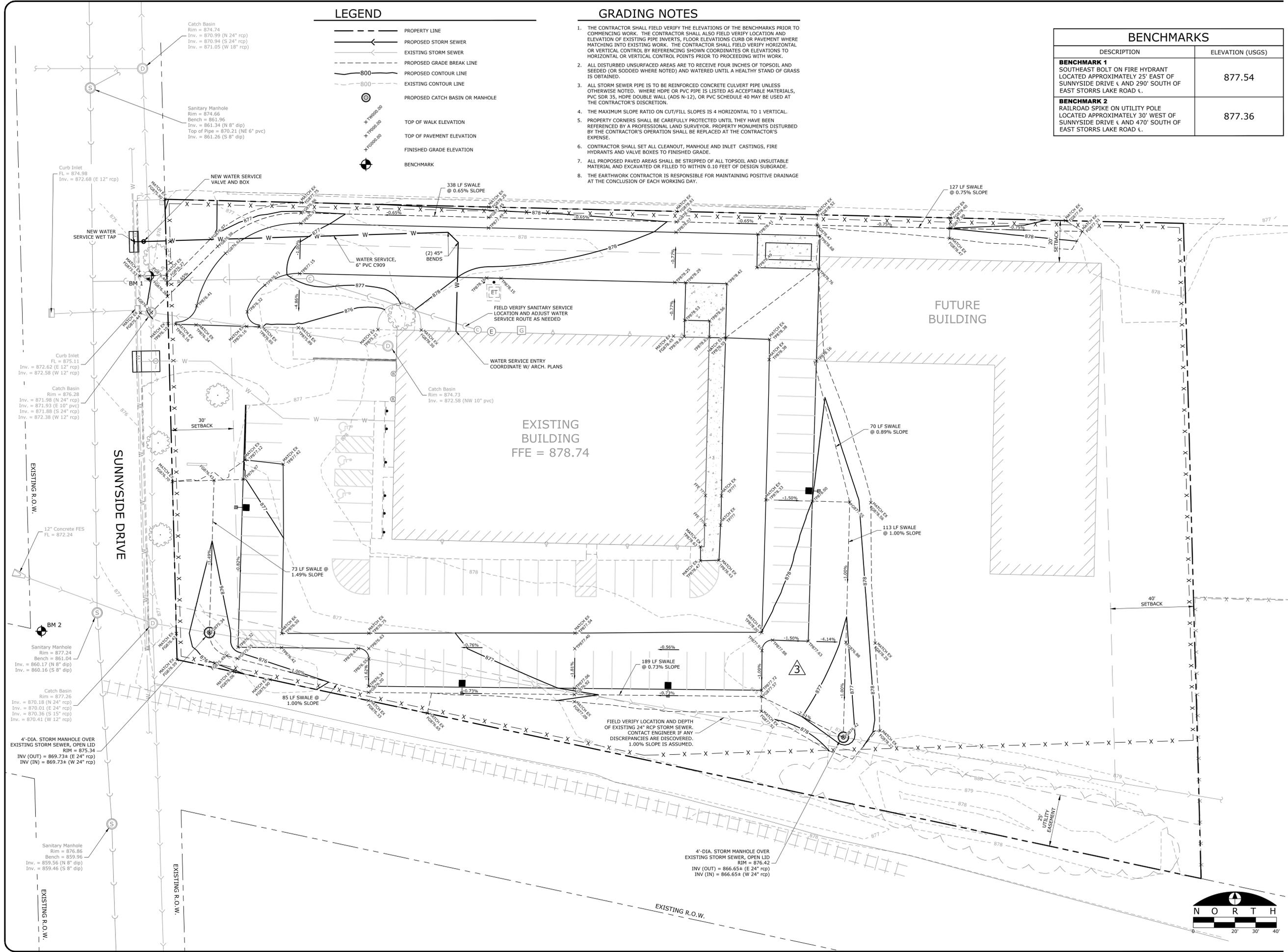
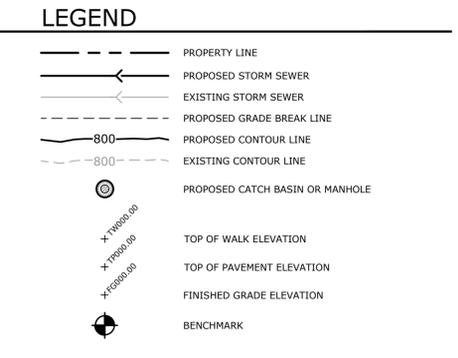
PROJECT NUMBER
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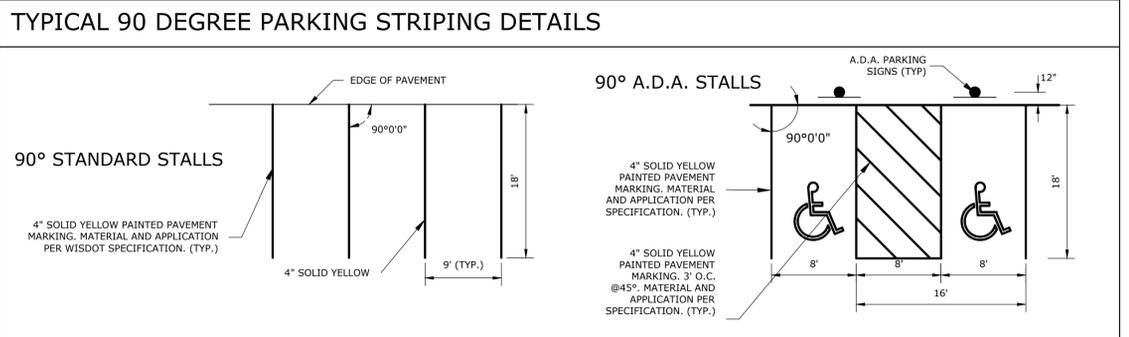
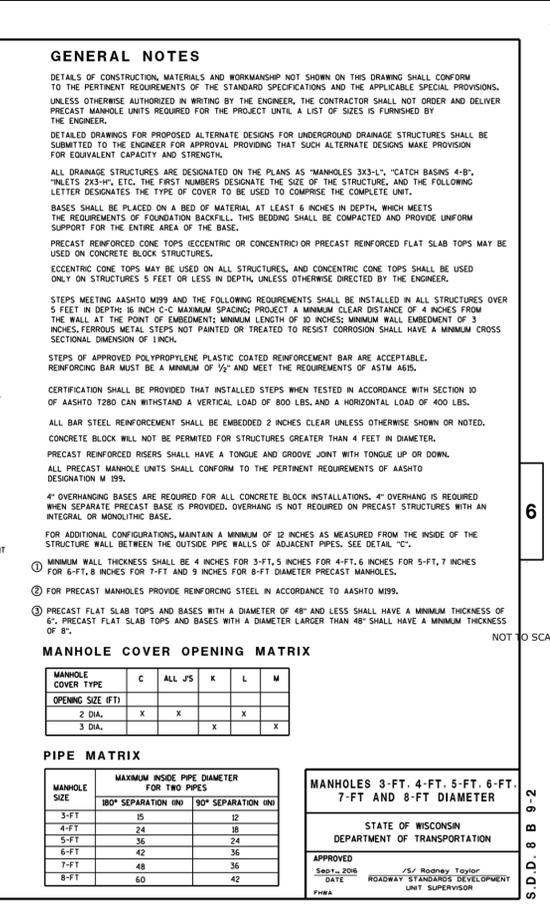
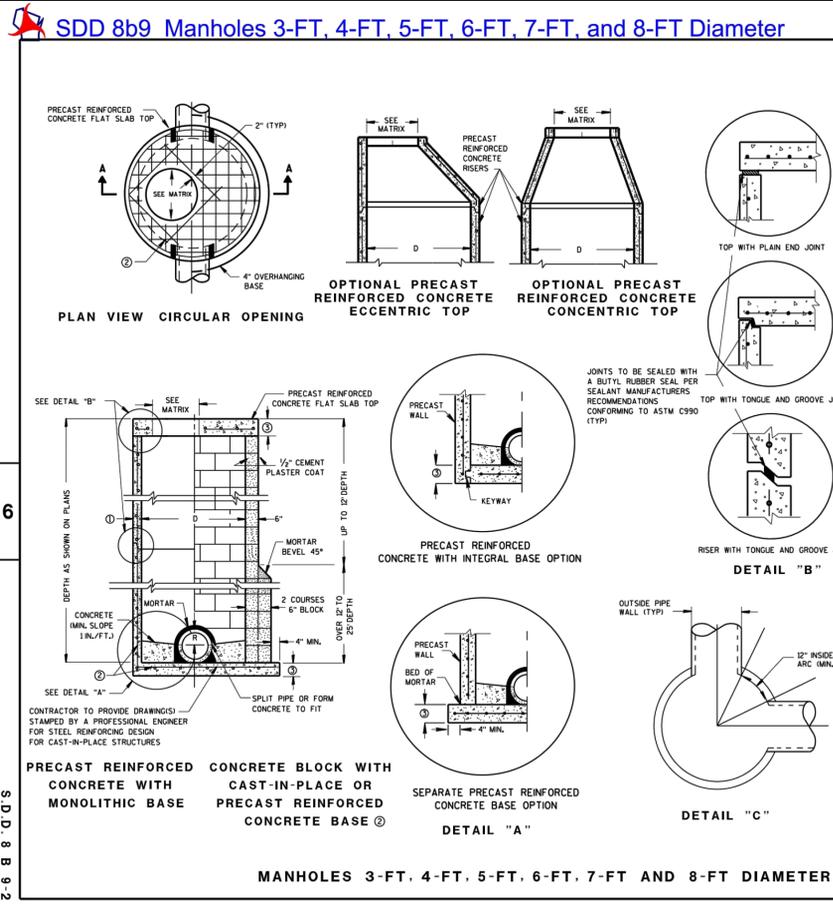
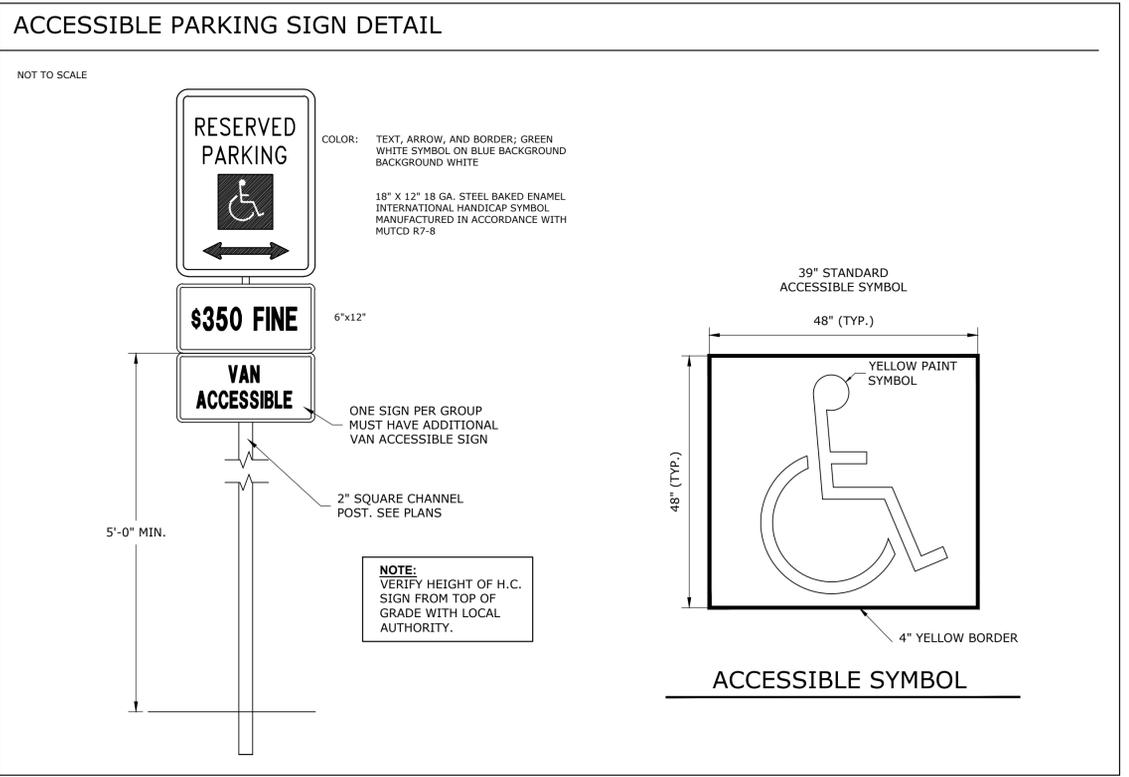
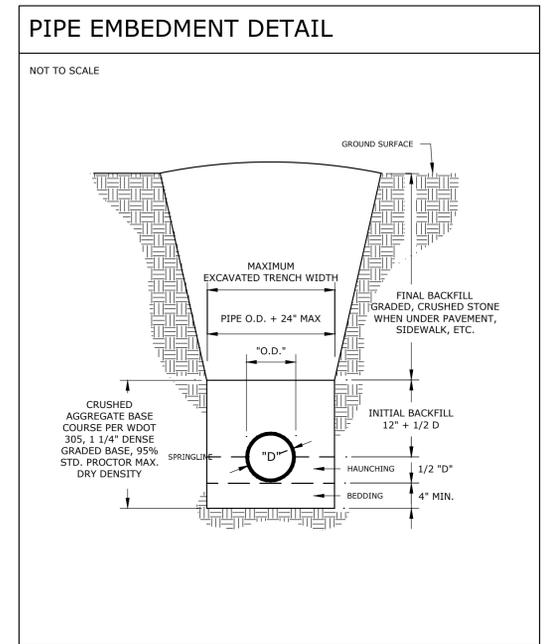
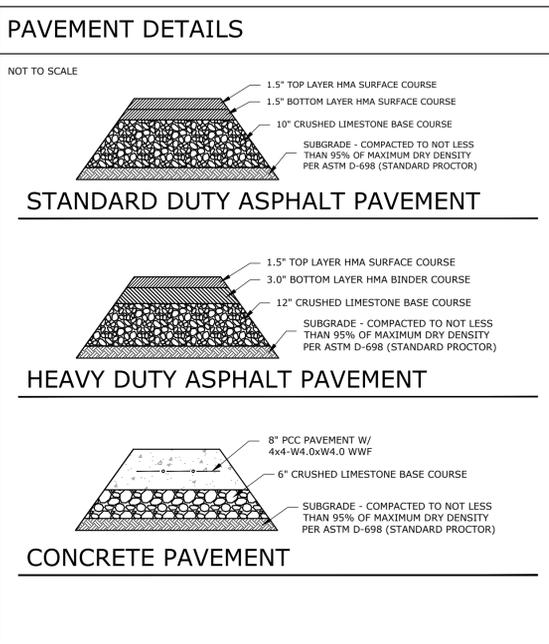
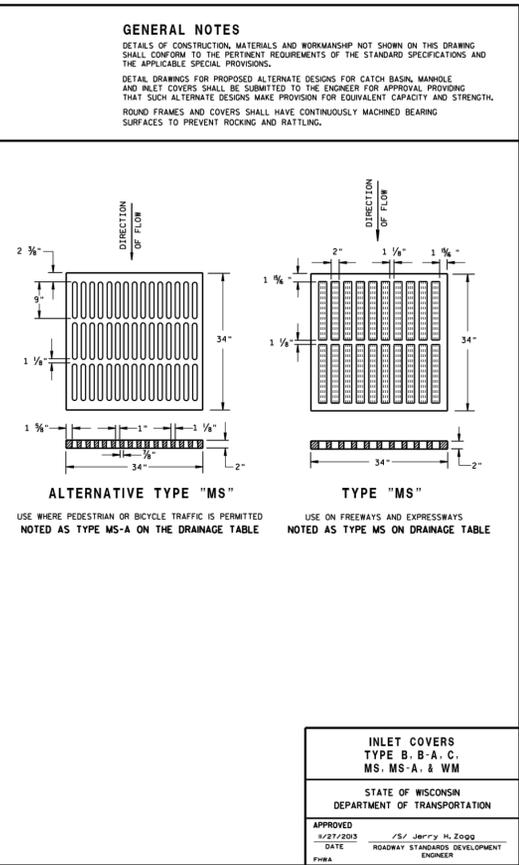
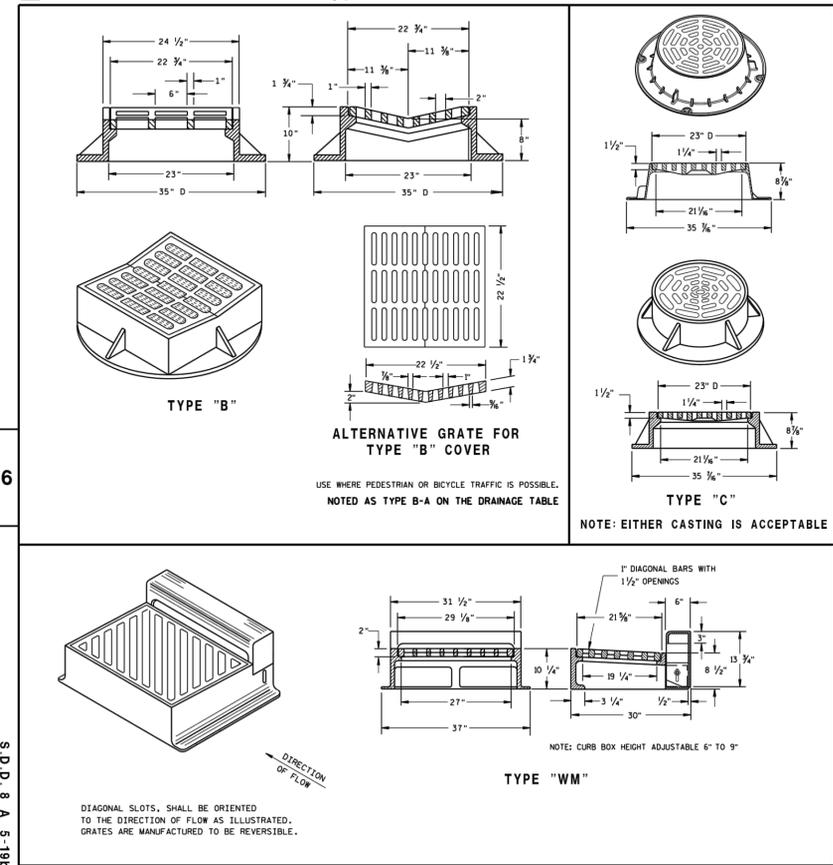
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BENCHMARKS	
DESCRIPTION	ELEVATION (USGS)
BENCHMARK 1 SOUTHEAST BOLT ON FIRE HYDRANT LOCATED APPROXIMATELY 25' EAST OF SUNNYSIDE DRIVE & AND 290' SOUTH OF EAST STORRS LAKE ROAD &	877.54
BENCHMARK 2 RAILROAD SPIKE ON UTILITY POLE LOCATED APPROXIMATELY 30' WEST OF SUNNYSIDE DRIVE & AND 470' SOUTH OF EAST STORRS LAKE ROAD &	877.36

- ### GRADING NOTES
1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN COORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL POINTS PRIOR TO PROCEEDING WITH WORK.
 2. ALL DISTURBED UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SEEDED (OR SOODED WHERE NOTED) AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
 3. ALL STORM SEWER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE UNLESS OTHERWISE NOTED. WHERE HDPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HDPE DOUBLE WALL (ADS N-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION.
 4. THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 4 HORIZONTAL TO 1 VERTICAL.
 5. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 6. CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
 7. ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
 8. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.



SDD 8a5-b Inlet Covers Type B, B-A, C, MS, MS-A, and WM



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PROJECT NAME
OWNER'S NAME

REMODELING FOR UNITED UNION OF ROOFERS WATERPROOFERS & ALLIED WORKERS LOCAL #11

222 SUNNYSIDE DRIVE
MILTON, WI 53563

CONSULTANTS

CORD
CONSTRUCTION CO.

ISSUED FOR

NO.	DESCRIPTION	DATE
1.	CLIENT REVIEW	02/07/2020
2.	CLIENT REVIEW	02/14/2020
3.	CLIENT REVIEW	03/03/2020
4.	CLIENT REVIEW	03/04/2020
5.	ADDENDUM #1	03/24/2020
6.	ADDENDUM #2	03/31/2020
7.	VILLAGE COMMENTS	04/23/2020
8.	FOR CONSTRUCTION	05/05/2020
9.
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16.
17.

REVISIONS

ITEM	DATE
1.
2.
3.
4.
5.
6.
7.

SHEET TITLE
DETAILS

DRAWN: TRF
CHECKED: RGS
PM: JSL

PROJECT NUMBER
SHEET NUMBER
20005
C8