City of Waukesha
Application for Development Review

Last Revision Date: 6/18/2018

City of Waukesha Community Development Department - 201 Delafield Street, Suite 200, Waukesha, WI 53188 262-524-3750
City of Waukesha Department of Public Works Engineering Division—130 Delafield Street, Waukesha, WI 53188 262-524-3600
www.waukesha-wi.gov

APPLICANT INFORMATION

Applicant Name: Kate Egan
Applicant Company Name: Bray Architects
Address: 829 S 1st Street
City, State: Milwaukee, WI Zip: 53228
Phone: 414-615-7679
E-Mail: kegan@brayarch.com

PROPERTY OWNER INFORMATION

Applicant Name: School District of Waukesha
Applicant Company Name: School District of Waukesha
Address: 222 Maple Ave
City, State: Waukesha, WI Zip: 53186
Phone: 414-615-7679
E-Mail: dclark@waukesha.k12.wi.us

ARCHITECT/ENGINEER/SURVEYOR INFORMATION

Name: Kate Egan
Company Name: Bray Architects
Address: 829 S 1st Street
City, State: Milwaukee, WI Zip: 53228
Phone: 414-615-7679
E-Mail: kegan@brayarch.com

PROJECT & PROPERTY INFORMATION

Project Name: South High School
Property Address 401 E Roberta Dr, Waukesha, 53186
Tax Key Number(s): WAKC 1339.976
Zoning: Institutional - 1
Total Acreage: 34 Existing Building Square Footage 289,294
Proposed Building/Addition Square Footage: 3899+ 1,612 = 5,511
Current Use of Property: High School

PROJECT SUMMARY (please provide a brief project description)

Main Office / Student Services addition to the north; Science lab addition.
Pockets of renovations as a result of main office addition: converting existing main office to classrooms, renovating space adjacent to office addition and reconfiguring a pair of multi-stall toilet rooms to be ADA compliant. Drop off access drive and landscaping improvements.

All submittals require a complete scaled set of digital plans (Adobe PDF) and shall include a project location map showing a 1/2 mile radius, a COLOR landscape plan, COLOR building elevation plans, and exterior lighting photometric maps and cut sheets. A pre-application meeting is required prior to submittal of any applications for Subdivisions, Planned Unit Developments, and Site and Architectural Plan Review. **The deadline for all applications requiring Plan Commission Reviews is at 4:00 P.M, 30 days prior to the meeting date. The Plan Commission meets the Second and Fourth Wednesday of each month.**

APPLICATION ACKNOWLEDGEMENT AND SIGNATURES

I hereby certify that I have reviewed the City of Waukesha Development Handbook, City Ordinances, Submittal Requirements and Checklists and have provided one PDF of all required information. Any missing or incomplete information may result in a delay of the review of your application. By signing this I also authorize The City of Waukesha or its agents to enter upon the property for the purpose of reviewing this application.

Applicant Signature Kate Egan
Applicant Name (Please Print) Kate Egan
Date: 11/08/19

For Internal Use Only:

Amount Due (total from page 2): _____ Amount Paid: _____ Check #: _____
Trakit ID(s) _____ Date Paid: _____

City of Waukesha Application for Development Review

TYPE OF APPLICATION & FEES (CHECK ALL THAT APPLY) **Fees**

Please note that each application type has different submittal requirements. Detailed submittal checklists can be found in Appendix A of the Development Handbook.

☐Plan Commission Consultation **$200** _____

☐Traffic Impact Analysis _____

- ☐Commercial, Industrial, Institutional, and Other Non-Residential **$480**
- ☐Residential Subdivision or Multi-Family **$480**
- ☐Resubmittal (3rd and all subsequent submittals **$480**

☐Preliminary Site Plan Review _____

- ☐Level 1: Buildings/additions less than 10,000 sq.ft. or sites less than 1 acre **$2,200**
- ☐Level 2: Buildings/additions between 10,001-50,000 sq.ft. or sites between 1.01 and 10 acres **$2,320**
- ☐Level 3: Buildings/additions between 50,001-100,000 sq.ft. or sites between10.01 and 25 acres **$2,440**
- ☐Level 4: Buildings/additions over 100,001sq.ft. or sites greater than 25.01 acres. **$2,560**
- ☐Resubmittal Fees (after 2 permitted reviews) **$750**

☒Final Site Plan Review $1,320

- ☒Level 1: Buildings/additions less than 10,000 sq.ft. or sites less than 1 acre **$1,320**
- ☐Level 2: Buildings/additions between 10,001-50,000 sq.ft. or sites between 1.01 and 10 acres **$1,440**
- ☐Level 3: Buildings/additions between 50,001-100,000 sq.ft. or sites between10.01 and 25 acres **$1,560**
- ☐Level 4: Buildings/additions over 100,001sq.ft. or sites greater than 25.01 acres. **$1,680**
- ☐Resubmittal Fees (3rd and all subsequent submittals) **$750**

☐Minor Site or Architectural Plans _____

- ☐Projects that do not require site development plans **$330**
- ☐Resubmittal Fees (3rd and all subsequent submittals) **$330**

☐Certified Survey Map (CSM) _____

- ☐1-3 Lots **$500**
- ☐4 lots or more **$560**
- ☐Resubmittal (3rd and all subsequent submittals) **$180**
- ☐Extra-territorial CSM **$260**

☐Preliminary Subdivision Plat _____

- ☐Up to 12 lots **$1,270**
- ☐13 to 32 lots **$1,390**
- ☐36 lots or more **$1,510**
- ☐Resubmittal (3rd and all subsequent submittals) **$630**

☐Final Subdivision Plat _____

- ☐Up to 12 lots **$660**
- ☐13 to 32 lots **$780**
- ☐36 lots or more **$900**
- ☐Resubmittal (3rd and all subsequent submittals) **$480**
- ☐Extra-territorial Plat **$540**

☐Rezoning and/or Land Use Plan Amendment _____

- ☐Rezoning **$630**
- ☐Land Use Plan Amendment: **$630**

☐Conditional Use Permit

- ☐Conditional Use Permit with no site plan changes **$480**
- ☐Conditional Use Permit with site plan changes **$480** plus applicable preliminary and final site plan fees above _____

☐Planned Unit Development or Developer's Agreement (Site Plan Review is also required) _____

- ☐New Planned Unit Development or Developer's Agreement **$1,760**
- ☐Planned Unit Development or Developer's Agreement Amendment **$610**

TOTAL APPLICATION FEES: $1,320

City of Waukesha
Development Review Submittal Requirements

PLAN COMMISSION CONSULTATION SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

A Plan Commission Consultation my be submitted for review and comment for the owner/developer to ascertain the feasibility of a proposed project. A consultation is not required but may be submitted in advance of an actual submittal for a preliminary plat, CSM, Planned Unit Development, rezoning, conditional use or site plan. The Plan Commission will only provide feedback, no approvals will be given. Prior to applying for a Plan Commission Consultation you must discuss your project with the Planning Division to determine if a Plan Commission Consultation is recommended.

Review Time: Approximately 30 days

Reviewing Departments: Community Development Planning Division, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission (optional)

In addition to this application and corresponding application fee you will also need:

☐One (1) digital (PDF) copy of the plans you want conceptual review of

☐Attachment A: Development Review Checklist . You should also review all other corresponding checklists that relate to the project that you are seeking conceptual review of and include as much information as possible.

☐ Cover letter outlining project details.

TRAFFIC IMPACT ANALYSIS SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

A Traffic Impact Analysis is required for projects that meet certain criteria. Please refer to the Developer's Handbook Section 4.4 to determine if your project requires a Traffic Impact Analysis

Review Time: Approximately 30 days

Reviewing Departments: Public Works Engineering Division

Reviewing Boards: None, however the Plan Commission may require a copy as part of site plan review process.

In addition to this application and corresponding application fee you will also need:

☐One (1) digital (PDF) copy of the Traffic Impact Analysis

PRELIMINARY SITE AND ARCHITECTURAL PLAN SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

Preliminary site and architectural plans are required for any new residential development with 4 or more units and all non-residential developments. Preliminary site plan approval is also required for additions or modifications to existing developments and projects where a stormwater management plan is needed. Preliminary approval is required unless it is determined by City staff in the Pre-Application meeting that the project only needs Final Site and Architectural Review.

Review Time: Approximately 30 days (45 if Common Council review is needed)

Reviewing Departments: Community Development Planning Division, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission. Common Council and Board of Public Works review may be required for certain projects.

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Cover letter outlining project details.
- ☐ Color architectural elevations of all sides of the building and color perspective renderings
- ☐ Conceptual Landscape Plan
- ☐ Attachment A: Development Review Checklist
- ☐ Site Plan (see Attachment B: Engineering Plan Checklist)
- ☐ Grading Plan (see Attachment C: Site Grading and Drainage Plan Checklist)
- ☐ Stormwater Management Plan (see Attachment D: Stormwater Management Plan Checklist)
- ☐ Utility Plans (see Attachment H: Sewer Plan Review Checklist)
- ☐ Any other attachments as applicable.

FINAL SITE AND ARCHITECTURAL PLAN SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

Final site and architectural plans are submitted only after the Plan Commission has approved Preliminary Site Plans for any new residential development with 4 or more units and all non-residential developments, including modifications to existing developments. Some projects may bypass Preliminary approval but only if it is determined by City staff in the Pre-Application meeting.

Review Time: Approximately 30 days (45 if Common Council review is needed)

Reviewing Departments: Community Development Planning Division, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission. Common Council and Board of Public Works review may be required for certain projects.

In addition to this application and corresponding application fee you will also need:

☒ One (1) digital (PDF) that includes of items listed below

- ☒ Cover letter outlining project details.
- ☒ Color architectural elevations of all sides of the building and color perspective renderings
- ☒ Landscape Plan (see Attachment I: Landscape Plan Checklist)
- ☒ Attachment A: Development Review Checklist
- ☒ Site Plan (see Attachment B: Engineering Plan Checklist)
- ☒ Grading Plan (see Attachment C: Site Grading and Drainage Plan Checklist) * (Note: Checklist not needed per Dave Buechl)
- ☐ Stormwater Management Plan (see Attachment D: Stormwater Management Plan Checklist)
- ☒ Utility Plans (see Attachment H: Sewer Plan Review Checklist) * (Note: Checklist not needed per Dave Buechl)

MINOR SITE AND ARCHITECTURAL PLAN SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

Minor Site and Architectural review is intended for projects that may not need the extensive submittal requirements for Preliminary and Final Site Plan approval. Projects that qualify for Minor Site Plan submittal may include landscape, façade and building changes or minor site modifications that don't result in the addition of impervious surface.

Review Time: Approximately 30 days (45 if Common Council review is needed)

Reviewing Departments: Community Development Planning Division, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission. Common Council and Board of Public Works review may be required for certain projects.

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Cover letter outlining project details.
- ☐ Architectural elevations of all sides of the building being modified

☐ In addition, depending on the type of project, you may also need the following items:

- ☐ Site Plan (see Attachment B: Engineering Plan Checklist)
- ☐ Landscape Plan (see Attachment I: Landscape Plan Checklist)

CERTIFIED SURVEY MAP SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

A Certified Survey Map may be used to divide up to eight (8) lots in Commercial, Industrial, and Mixed Use zoning districts and up to four (4) lots in all other zoning districts.

Review Time: Approximately 45-60 days. An extension letter will be required if the approval process will take more than 90 days.

Reviewing Departments: Community Development Planning Division, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission. Common Council and Board of Public Works review may be required for certain projects.

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Attachment E: Certified Survey Map Checklist
- ☐ Attachment A: Development Review Checklist and other attachments as applicable.

**Please note If any exterior architectural, landscape, or site plan changes are required you must also go through Site Plan Review and meet all of those submittal requirements.*

PRELIMINARY PLAT SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

A Preliminary Plat shall be used to subdivide land in the City. The applicant is responsible for submitting the Preliminary Plat to Waukesha County and the State of Wisconsin for review.

Review Time: Approximately 45-60 days. An extension letter will be required if the approval process will take more than 90 days.

Reviewing Departments: Community Development Planning Division, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission. Common Council and Board of Public Works review may be required for certain projects.

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Attachment F: Preliminary Plat Checklist
- ☐ Cover letter outlining project details.
- ☐ Attachment A: Development Review Checklist and other attachments as applicable
- ☐ Stormwater Management Plan (see Attachment D: Stormwater Management Plan Checklist)

FINAL PLAT SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

A Final plat shall be used to subdivide land in the City. The applicant is responsible for submitting the Final Plat to Waukesha County and the State of Wisconsin for review.

Review Time: Approximately 45-60 days. An extension letter will be required if the approval process will take more than 90 days.

Reviewing Departments: Community Development Planning Division, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission. Common Council and Board of Public Works review may be required for certain projects.

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Attachment G: Final Plat Checklist
- ☐ Cover letter outlining project details.
- ☐ Attachment A: Development Review Checklist and other attachments as applicable.
- ☐ Stormwater Management Plan (see Attachment D: Stormwater Management Plan Checklist)

REZONING & COMPREHENSIVE PLAN AMENDMENT SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

This review is for any requests to rezone land or amend the City's Comprehensive Master Plan. For rezonings all property owners within 300 feet of the property will be notified of your request.

Review Time: 45-60 Days

Reviewing Departments: Community Development Planning & Building Inspection Divisions, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission, Common Council

Additional Information: Rezonings must be done in accordance with the Comprehensive Plan. Please consult with Planning staff to determine if a Comprehensive Plan Amendment is also required prior to submitting a rezoning application.

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Cover letter outlining project details and rationale for rezoning
- ☐ Rezoning Form including legal description and notarized owner(s) signatures (rezoning applications only)
- ☐ Conceptual Plan (if applicable)

**Please note this application fee only covers the rezoning and/or Comprehensive Plan Amendment. If you are proposing site plan changes or are subdividing land you will also need to meet the applicable submittal requirements for those proposals.*

CONDITIONAL USE PERMIT SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

Any use listed as a Conditional Use in Chapter 22 (Zoning Code) requires a Public Hearing in front of the Plan Commission prior to building or occupancy permits being issued. All property owners within 300 feet of the property will be notified of your request.

Review Time: 30-45 days

Reviewing Departments: Community Development Planning & Building Inspection Divisions, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Conditional Use Permit Application

**Please note If any exterior architectural, landscape, or site plan changes are required you must also go through Site Plan Review and meet all of those submittal requirements.*

PLANNED UNIT DEVELOPMENT OR DEVELOPER'S AGREEMENT SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

The PUD Overlay District is intended to permit development that will, over a period of time, be enhanced by coordinated area site planning, diversified location of structures, diversified building heights and types, and/or mixing of compatible uses. The PUD Overlay District under this Chapter will allow for flexibility of overall development design with benefits from such design flexibility intended to be derived by both the developer and the community, while at the same time maintaining insofar as possible the standards or use requirements set forth in the underlying basic zoning district.

Developer's Agreements are used for any project that require public infrastructure improvements (sewer, storm sewer, sidewalks, etc) and other off-site improvements such as median openings, traffic signals, street widening, etc..

Review Time: 45-60 days

Reviewing Departments: Community Development Planning & Building Inspection Divisions, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission, Common Council. Some projects will also require Board of Public Works review.

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Cover letter/statement that outlining project details and all of the required information set forth in the Zoning Ordinance Section 22.52 (4)(a)
- ☐ Rezoning Form including legal description and notarized owner(s) signatures (rezoning applications only)
- ☐ General Development Plan
- ☐ Proposed Supplemental Design Elements (required for all PUDs under the minimum required acreage)

**Please note in addition to the PUD submittal requirements your project will also need additional application fees and submittal materials based on the project type. This may include Preliminary and Final Plats, Preliminary and Final Site and Architectural Plans, Certified Survey Maps, Traffic Impact Analysis. Staff will inform you of any additional submittal requirements at the Pre-Application meeting, which is required prior to submitting your application.*

ANNEXATION SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION

Requests for annexation as permitted under Section 66.0217 Wisconsin Statutes.

Review Time: 45-60 days

Reviewing Departments: Community Development Planning & Building Inspection Divisions, Public Works Engineering Division, Fire Department, Water Utility.

Reviewing Boards: Plan Commission, Common Council

In addition to this application and corresponding application fee you will also need:

☐ One (1) digital (PDF) that includes of items listed below

- ☐ Copy of your State of Wisconsin Request for Annexation Review Application
- ☐ Signed City of Waukesha Direct Annexation Petition
- ☐ Map of property of property to be annexed.
- ☐ A boundary description (legal description of property to be annexed)
- ☐ Any additional information on the annexation.

Wednesday | December 11th, 2019

Project:	South High School
Site Address:	401 E Roberta Dr, Waukesha WI 53186
Bray Project Number:	3353
Owner:	School District of Waukesha 222 Maple Ave, Waukesha WI 53186
Applicant / Architect:	Bray Architects 829 S 1st Street, Milwaukee WI 53204

Application for Development Review – Waukesha South High School

Project Description:

The architectural scope of this project creates a new main entrance and secure vestibule for visitors entering the school during school hour. This includes a new administration addition at the North, while backfilling the existing administration area with new classrooms, including special education. It also adds a new science lab area to fill an underused courtyard to the South.

The site improvements include elongating the horseshoe drive along Roberta Avenue, providing additional visitor parking and moving the existing curb cut further to the east, providing more distance between curb cuts. It also provides an accessible walkway to the new main entrance.

Interior renovations include reconfiguring the spaces adjacent to the main office addition, renovating the existing office to be classrooms, and a few other spaces including a computer lab for the Engineering Preparatory Academy, a classroom for the Academy of Health Professionals, and staff work room. The public toilet rooms adjacent to the auditorium are be renovated to be ADA compliant.

Capital maintenance included adding air conditioning to remaining academic areas and additional related scope.

Attachment A - Application for Development Review Checklist

Project Name: South High School

Engineering Design Firm: Muermann Engineering - Electrical Engineers

Kapur Inc. - Civil Engineers

Checklist Items	CSM	Preliminary Plat	Final Plat	Property Survey for Bldg Permit	Storm Water Plan	Erosion Control Plan	Site, Grading, Drainage Plan	Street Plan	Utility Plan	Landscape Plan	Traffic Control Plan	Traffic Impact Analysis	Conditional Use or Home Indus.	PUD or Developer's Ag.	Minor site or Arch. Change	Conditional Use	Rezoning & Comp. Plan Change
Followed Construction Drawing Sheet Layout standards in Development Handbook						X	X	N/A	X	X							
Followed Development Handbook and Storm Water Ordinance standards for Erosion control plans						X											
Obtained geotechnical evaluation for storm water and pavement design					N/A		X	N/A	X								
Followed Development Handbook standards, and Wisconsin Administrative Code for Property Survey				X													
Verified proposed basement floor elevation is at least 1 foot above the highest seasonal high water table elevation				X													
Followed Development Handbook standards and Ordinance for Preliminary Plat		N/A															
Followed Site, Grading, and Drainage Plan design standards in Development Handbook and Storm Water Ordinance							X						N/A		N/A	N/A	N/A
Followed Traffic impact analysis standards in Development Handbook												N/A					
Specifications conform to current City Standard Specifications					N/A	X	X	N/A	X	X	N/A			N/A			
Followed Lighting Plan standards in Development Handbook									X								
Development site contains Contaminated Waste							NO										
Followed storm water management requirements in Development Handbook, and Ordinance					N/A												
Site contains mapped FEMA floodplain or a local 100-year storm event high water limits							NO										
Site contains wetlands or Natural Resource limits (ie. Primary, Secondary, Isolated , shoreland limits)							NO										
CSM follows standards in Development Handbook, City Ordinance, and State Statutes	N/A																
Followed Development Handbook standards for Street plans and profiles								N/A									
Followed Development Handbook standards for utility plans and profiles									X								
Existing sanitary sewer lateral has been televised							N/A		N/A				N/A		N/A	N/A	N/A

Checklist Items	CSM	Preliminary Plat	Final Plat	Property Survey for Bldg Permit	Storm Water Plan	Erosion Control Plan	Site, Grading, Drainage Plan	Street Plan	Utility Plan	Landscape Plan	Traffic Control Plan	Traffic Impact Analysis	Conditional Use or Home Indus.	PUD or Developer's Ag.	Minor site or Arch. Change	Conditional Use	Rezoning & Comp. Plan Change
Development Agreement needed for Public Infrastructure														N/A			
Followed Development Handbook standards for Landscape plans										X							
Followed Development Handbook standards, State Statures and Ordinance for Final Plat			N/A														
A-E 2.02(4): Each sheet of plans, drawings, documents, specifications and reports for architectural, landscape architectural, professional engineering, design or land surveying practice should be signed, sealed, and dated by the	N/A	N/A	N/A	X	X	X	X	N/A	X	X		N/A	N/A	N/A	N/A	N/A	N/A
32.10(e)(12.)H. A cover sheet stamped and signed by a professional engineer registered in the State of Wisconsin indicating that all plans and supporting documentation have been reviewed and approved by the engineer and certifying that they have read					X												
City, DNR, County or State Permits are needed					N/A		X	N/A	X		N/A						
Complete and submit Plan Sheet and Submittal Specific checklists in Development Handbook	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A	X		N/A					
Proposed easements needed are shown.	N/A		N/A		N/A		N/A	N/A	N/A								
All Existing easements are shown	N/A	N/A	N/A	X	X	X	X	N/A	X	X			N/A	N/A	N/A	N/A	N/A

City of Waukesha
Department of Public Works
130 Delafield Street
Waukesha, WI 53188
Waukesha-wi.gov

Engineering Plan Checklist

Attachment B
(Rev 12/18)

Project Name: South High School

Engineering & Design Firm: Kapur Inc. - Civil Engineers
Muermann Engineering - Electrical Engineers

General Information

Plans shall include the seal and signature of the Wisconsin licensed professional engineer responsible for the preparation of the construction plans on the cover sheet or on each sheet

YES	NO	N/A	
☐	☐	☒	Provide a copy of the WisDOT permit for any work in the State of Wisconsin right of way.
☐	☐	☒	Provide a copy of the Waukesha County Department of Public Works permit for any work in right of way of Waukesha County.
☐	☒	☐	Provide a copy of Wisconsin Department of Natural Resources Water Resources Application for Project Permits (WRAPP) for all sites greater than one acre.
☐	☐	☒	Provide a copy of US Army Corps of Engineers 404 permit.
☐	☐	☒	Provide cross access agreements for use of entrances.
☐	☐	☒	Provide off-site utility easements.
☐	☐	☒	Provide hydraulic gradeline calculations for all storm sewer pipes signed and sealed by a professional engineer licensed in the State of Wisconsin.
☒	☐	☐	Provide a storm water management plan and calculations signed and sealed by a professional engineer licensed in the State of Wisconsin.

All Plan Sheets

YES	NO	N/A	
☒	☐	☐	Plans prepared on sheets measuring 11” high by 17” wide or no larger than 24" high by 36" wide.
☐	☐	☒	Sanitary Sewer, watermain and storm sewer system plans for the entire development are included.
☐	☐	☒	A profile view is located below a plan view on plan and profile sheets and both views are aligned by stationing whenever possible. In general, stationing is from left to right.
☐	☐	☒	Plan and profile sheets start and terminate at match lines.
☒	☐	☐	The assumed bearing base, control monuments and stationing reference line(s)
☒	☐	☐	Right-of-way limits and easement limits
☒	☐	☐	Edge of pavement or flange, face and back of curb
☒	☐	☐	Name of each existing, proposed, and future roadway and any intersecting roadways
☒	☐	☐	Lot lines, lot and block numbers
☒	☐	☐	Addresses and names of Owners for existing parcels

☒	☐	☐	All obstructions located within the project limits including, but not limited to: trees, signs, utilities, fences, light poles, structures, etc.
☒	☐	☐	A note warning that underground utilities must be located by “Diggers Hotline” prior to start of construction
☒	☐	☐	Legend (relevant to each sheet) showing all special symbols, line types and hatch used
☒	☐	☐	Title block includes at a minimum, the following information: Name and address of engineering (design) firm and owner/developer Date of the drawing and last revision Scale Plan sheet number (# of #) Name and location description of development
☒	☐	☐	North to the top or right of the sheet and shown by a north arrow, clearly shown without intrusion.
☒	☐	☐	Scale of the plans 1" = 40' horizontally and 1" = 8' vertically for 11” by 17” plan sheets and 1" = 20' horizontally and 1" = 4' vertically for 22” by 34” sheets. Partial site plans have a scale of 1" = 20' or larger. The scale of details is such that the detail is clearly shown. The scale is shown with a line scale and text.
☒	☐	☐	Existing surface objects indicated with screened lines and clearly labeled.

Cover Sheet

YES	NO	N/A	
☒	☐	☐	Project title.
☒	☐	☐	Location Map (Proximity to two main streets minimum).
☒	☐	☐	Index of all plan sheets
☐	☐	☒	For large or phased subdivisions, a key map of layout and phases.
☐	☐	☒	A minimum of two (2) current SEWRPC reference benchmarks. Survey documentation of tie to Wisconsin State Plane Coordinate System, South Zone (horizontal) and City of Waukesha datum (vertical) provided. Elevations shown based on City of Waukesha datum.
☒	☐	☐	All permanent or temporary benchmarks and elevations.
☒	☐	☐	A description of the locations of the benchmarks; and the basis or origin of the vertical control network.
☒	☐	☐	Date of plan preparation and applicable revision date(s)
☒	☐	☐	The following statement: “*All site improvements and construction shown on the plans shall conform to the City of Waukesha Development Handbook & Infrastructure Specifications. Where the plans do not comply, it shall be the sole responsibility and expense of the Developer to make revisions to the plans and/or constructed infrastructure to comply.*”

Roadway

YES	NO	N/A	
☐	☐	☒	For all new streets, a site specific geotechnical evaluation and pavement design submitted with the plans.
☐	☐	☒	A separate detail sheet showing typical cross-sections for each roadway standard width and cul-de-sac if applicable.

Plan View

YES	NO	N/A	
☐	☐	☒	The assumed bearing base, control monuments and stationing reference line along the centerline of the roadway, including cul-de-sacs.
☒	☐	☐	At least one clearly labeled benchmark or control point per sheet.
☒	☐	☐	Pavement and median dimensions.
☒	☐	☐	Final grade elevations at 25’ intervals at the right-of-way including at the edge of pavement for rural sections or at the flange of curb for urban sections.
☐	☐	☒	Final grade elevations for cul-de-sacs at 25’ intervals at the right-of-way including at the edge of pavement for rural sections or at the flange of curb for urban sections.
☒	☐	☐	Label all PVC’s, PVT’s, and PC’s, PT’s for vertical and horizontal curves. Radii of all intersections (edge of pavement or flange of curb, with note indicating which is referenced).
☒	☐	☐	Driveways for all lots adjacent to storm inlets and intersections.
☒	☐	☐	Sidewalks labeled and dimensioned.
☒	☐	☐	Existing, proposed, future streets and drives labeled and dimensioned.
☐	☐	☒	All roadside ditch locations, flowline elevations at 50’ intervals of the ditches.
☒	☐	☐	Slope intercepts.
☐	☐	☒	Invert profile for 200’ downstream for any existing ditches receiving flow from a proposed road or street.
☒	☐	☐	Limits of any areas which need special stabilization techniques.
☒	☐	☐	Specific details of all existing connected roadways. Pavement, shoulders, ditches, curb alignment, and grades shall be shown as needed to adequately make the transition.

Intersection Details

YES	NO	N/A	
☐	☐	☒	Radii of all intersections (edge of pavement or flange of curb, with note indicating which is referenced).
☐	☐	☒	Sidewalks and accessible ramps labeled and dimensioned.
☐	☐	☒	Right of way corner clips and sight visibility easements.
☐	☐	☒	Spot grades as necessary to ensure proper drainage and compliant ADA slopes.
☐	☐	☒	Spot grades shall be shown at end of radius for all curb and gutter and the end radius for all back of sidewalk.
☐	☐	☒	Drainage clarified by flow arrows, high points, sags, ridges, etc. Slope intercepts shall be clearly labeled by station, elevation to the nearest 0.1’, and offset distance (left or right) from the reference line.
☐	☐	☒	Invert elevation of ditches (for rural roadway).
☐	☐	☒	Final subgrade elevation at the centerline of the street or roadway.

Cross Sections

YES	NO	N/A	
☐	☐	☒	Right of way limits.
☐	☐	☒	Slope intercepts clearly labeled.
☐	☐	☒	Elevations to the nearest 0.01'.
☐	☐	☒	Offset distance (left or right) from the reference line.
☐	☐	☒	Final grade elevations at back of walk, face of walk, top of curb, flange elevation (edge of pavement for rural section), and the centerline of the street or roadway.
☐	☐	☒	Cross slope of sidewalk, terrace area, and roadway.
☐	☐	☒	Invert elevation of ditches (for rural section)

City of Waukesha
Department of Public Works
130 Delafield Street
Waukesha, WI 53188
Waukesha-wi.gov

Landscape Plan Checklist

Attachment I
(Rev 12/18)

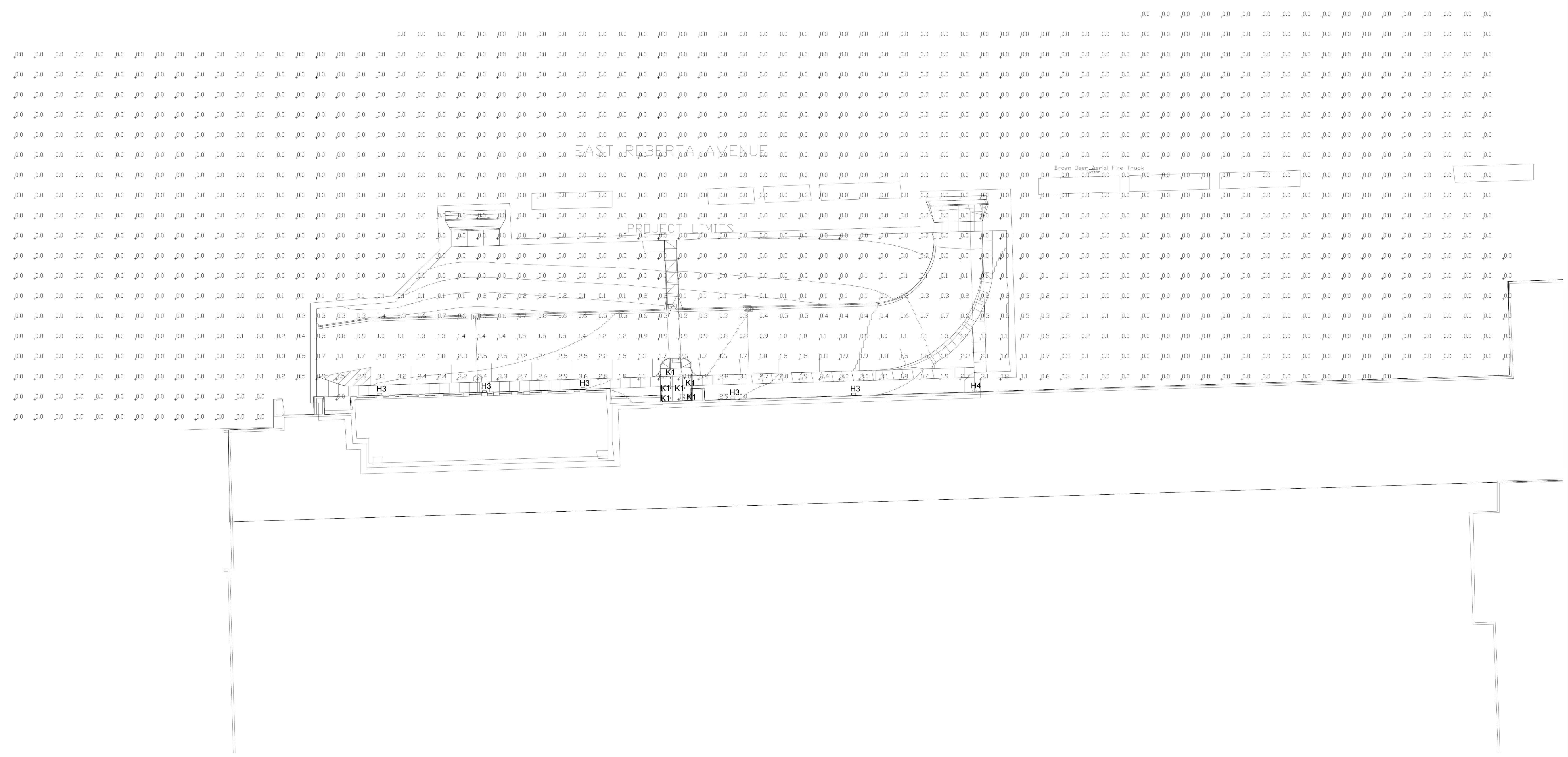
Project Name: South High School

Engineering & Design Firm: Kapur Inc. - Civil Engineers

☒ Contact Community Development Department for Requirements

Listed below are general design considerations only:

YES	NO	N/A	
☒	☐	☐	Show easements
☒	☐	☐	Location and footprint of any and all buildings
☒	☐	☐	Dimensions of development site along property line
☒	☐	☐	Existing and proposed streets
☒	☐	☐	Pedestrian and vehicular access points
☒	☐	☐	Location and dimensions of parking lots, etc.
☒	☐	☐	Location and dimensions of all existing or planned easements
☒	☐	☐	Location and dimensions of snow removal and storage areas
☒	☐	☐	Location and dimensions of outdoor lighting fixtures
☐	☐	☒	Interior parkway provided
☐	☐	☒	Parkway provided
☒	☐	☐	Buffer strip provided
☐	☐	☒	Dumpster enclosure details
☒	☐	☐	Parking lot landscaping
☐	☐	☒	Utility/mechanical equipment screened
☐	☐	☒	Service area screened
☒	☐	☐	Location of freestanding signs
☒	☐	☐	Walls and fences shown
☒	☐	☐	Location of utilities
☒	☐	☐	Existing and proposed contours and grades, including berm elevations
☒	☐	☐	Location, name and size of proposed plant materials
☒	☐	☐	Specifications of all types of all proposed ground cover, i.e., seed, sod, etc.
☒	☐	☐	Location, species, and size of existing trees
☒	☐	☐	Clear identification of trees to be removed
☒	☐	☐	Square footage of parking lot area
☒	☐	☐	Tree protection plan



SITE PLAN - PHOTOMETRIC

Scale: 1" = 30'-0"

PLAN NORTH

GENERAL NOTES:
1. SITE LIGHTING CALCULATED AT GRADE.

WAUKESHA SOUTH HIGH SCHOOL SITE FIXTURE SCHEDULE							
TYPE	DESCRIPTION	LAMP TYPE	VOLT	WATTS	MANUFACTURER	CATALOG NUMBER	NOTE
H3	SIZE 1 LED WALL PACK - FULL CUTOFF - TYPE 3 MEDIUM - 5487 LUMENS	5000K LED	120-277	46	LITHONIA	DSXW1LED-20C-700-50K-T3M-MVOLT	1
H4	SIZE 1 LED WALL PACK - FULL CUTOFF - TYPE 4 MEDIUM - 5376 LUMENS	5000K LED	120-277	46	LITHONIA	DSXW1LED-20C-700-50K-T4M-MVOLT	1
K1	6" LED RECESSED DOWNLIGHT - 1000 LUMENS	5000K LED	120-277	10.4	LITHONIA	LDN6-50/10-LO6-AR-LSS-MVOLT	1

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR FIXTURE REQUIREMENTS.
2. NO ALTERNATE FIXTURES.
3. ALL INTERIOR LED FIXTURES TO HAVE A MINIMUM CRI OF 80+. ALL EXTERIOR LED FIXTURES TO HAVE A MINIMUM CRI OF 70+.
4. MOUNT FIXTURES AT HEIGHT INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.

PLAN NOTES:
1. ARCHITECT TO SELECT STANDARD COLOR AND FINISH.

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solid foundation. forward thinking.

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MUERMANN ENGINEERING
Solid planning, superior solutions

Project Title:
ADDITION AND REMODELING TO:
WAUKESHA SOUTH HIGH SCHOOL
SCHOOL DISTRICT OF WAUKESHA
401 E ROBERTA AVE, WAUKESHA, WI 53186

REVISIONS:

	DATE	DESCRIPTION

Project Number:
3353

Issued For:
CITY SUBMITTAL
11/06/2019

Sheet Title:
SITE PLAN - PHOTOMETRIC

Sheet Number:
E0.00

Attachment A - Application for Development Review Checklist

Project Name: South High School

Engineering Design Firm: Muermann Engineering - Electrical Engineers

Kapur Inc. - Civil Engineers

Checklist Items	CSM	Preliminary Plat	Final Plat	Property Survey for Bldg Permit	Storm Water Plan	Erosion Control Plan	Site, Grading, Drainage Plan	Street Plan	Utility Plan	Landscape Plan	Traffic Control Plan	Traffic Impact Analysis	Conditional Use or Home Indus.	PUD or Developer's Ag.	Minor site or Arch. Change	Conditional Use	Rezoning & Comp. Plan Change
Followed Construction Drawing Sheet Layout standards in Development Handbook						X	X	X	X	X							
Followed Development Handbook and Storm Water Ordinance standards for Erosion control plans						X											
Obtained geotechnical evaluation for storm water and pavement design					X		X	X	X								
Followed Development Handbook standards, and Wisconsin Administrative Code for Property Survey				X													
Verified proposed basement floor elevation is at least 1 foot above the highest seasonal high water table elevation				X													
Followed Development Handbook standards and Ordinance for Preliminary Plat		X															
Followed Site, Grading, and Drainage Plan design standards in Development Handbook and Storm Water Ordinance							X						X		X	X	X
Followed Traffic impact analysis standards in Development Handbook												X					
Specifications conform to current City Standard Specifications					X	X	X	X	X	X	X			X			
Followed Lighting Plan standards in Development Handbook									X								
Development site contains Contaminated Waste							X										
Followed storm water management requirements in Development Handbook, and Ordinance					X												
Site contains mapped FEMA floodplain or a local 100-year storm event high water limits							X										
Site contains wetlands or Natural Resource limits (ie. Primary, Secondary, Isolated , shoreland limits)							X										
CSM follows standards in Development Handbook, City Ordinance, and State Statutes	X																
Followed Development Handbook standards for Street plans and profiles								X									
Followed Development Handbook standards for utility plans and profiles									X								
Existing sanitary sewer lateral has been televised							X		X				X		X	X	X

Checklist Items	CSM	Preliminary Plat	Final Plat	Property Survey for Bldg Permit	Storm Water Plan	Erosion Control Plan	Site, Grading, Drainage Plan	Street Plan	Utility Plan	Landscape Plan	Traffic Control Plan	Traffic Impact Analysis	Conditional Use or Home Indus.	PUD or Developer's Ag.	Minor site or Arch. Change	Conditional Use	Rezoning & Comp. Plan Change
Development Agreement needed for Public Infrastructure																	
Followed Development Handbook standards for Landscape plans																	
Followed Development Handbook standards, State Statures and Ordinance for Final Plat																	
A-E 2.02(4): Each sheet of plans, drawings, documents, specifications and reports for architectural, landscape architectural, professional engineering, design or land surveying practice should be signed, sealed, and dated by the																	
32.10(e)(12.)H. A cover sheet stamped and signed by a professional engineer registered in the State of Wisconsin indicating that all plans and supporting documentation have been reviewed and approved by the engineer and certifying that they have read																	
City, DNR, County or State Permits are needed																	
Complete and submit Plan Sheet and Submittal Specific checklists in Development Handbook																	
Proposed easements needed are shown.																	
All Existing easements are shown																	

City of Waukesha
Department of Public Works
130 Delafield Street
Waukesha, WI 53188
Waukesha-wi.gov

Engineering Plan Checklist

Attachment B
(Rev 12/18)

Project Name: South High School

Engineering & Design Firm: Kapur Inc. - Civil Engineers
Muermann Engineering - Electrical Engineers

General Information

Plans shall include the seal and signature of the Wisconsin licensed professional engineer responsible for the preparation of the construction plans on the cover sheet or on each sheet

YES	NO	N/A	
☐	☐	☐	Provide a copy of the WisDOT permit for any work in the State of Wisconsin right of way.
☐	☐	☐	Provide a copy of the Waukesha County Department of Public Works permit for any work in right of way of Waukesha County.
☐	☐	☐	Provide a copy of Wisconsin Department of Natural Resources Water Resources Application for Project Permits (WRAPP) for all sites greater than one acre.
☐	☐	☐	Provide a copy of US Army Corps of Engineers 404 permit.
☐	☐	☐	Provide cross access agreements for use of entrances.
☐	☐	☐	Provide off-site utility easements.
☐	☐	☐	Provide hydraulic gradeline calculations for all storm sewer pipes signed and sealed by a professional engineer licensed in the State of Wisconsin.
☐	☐	☐	Provide a storm water management plan and calculations signed and sealed by a professional engineer licensed in the State of Wisconsin.

All Plan Sheets

YES	NO	N/A	
☐	☐	☐	Plans prepared on sheets measuring 11” high by 17” wide or no larger than 24" high by 36" wide.
☐	☐	☐	Sanitary Sewer, watermain and storm sewer system plans for the entire development are included.
☐	☐	☐	A profile view is located below a plan view on plan and profile sheets and both views are aligned by stationing whenever possible. In general, stationing is from left to right.
☐	☐	☐	Plan and profile sheets start and terminate at match lines.
☐	☐	☐	The assumed bearing base, control monuments and stationing reference line(s)
☐	☐	☐	Right-of-way limits and easement limits
☐	☐	☐	Edge of pavement or flange, face and back of curb
☐	☐	☐	Name of each existing, proposed, and future roadway and any intersecting roadways
☐	☐	☐	Lot lines, lot and block numbers
☐	☐	☐	Addresses and names of Owners for existing parcels

☐	☐	☐	All obstructions located within the project limits including, but not limited to: trees, signs, utilities, fences, light poles, structures, etc.
☐	☐	☐	A note warning that underground utilities must be located by “Diggers Hotline” prior to start of construction
☐	☐	☐	Legend (relevant to each sheet) showing all special symbols, line types and hatch used
☐	☐	☐	Title block includes at a minimum, the following information: Name and address of engineering (design) firm and owner/developer Date of the drawing and last revision Scale Plan sheet number (# of #) Name and location description of development
☐	☐	☐	North to the top or right of the sheet and shown by a north arrow, clearly shown without intrusion.
☐	☐	☐	Scale of the plans 1" = 40' horizontally and 1" = 8' vertically for 11” by 17” plan sheets and 1" = 20' horizontally and 1" = 4' vertically for 22” by 34” sheets. Partial site plans have a scale of 1" = 20' or larger. The scale of details is such that the detail is clearly shown. The scale is shown with a line scale and text.
☐	☐	☐	Existing surface objects indicated with screened lines and clearly labeled.

Cover Sheet

YES	NO	N/A	
☐	☐	☐	Project title.
☐	☐	☐	Location Map (Proximity to two main streets minimum).
☐	☐	☐	Index of all plan sheets
☐	☐	☐	For large or phased subdivisions, a key map of layout and phases.
☐	☐	☐	A minimum of two (2) current SEWRPC reference benchmarks. Survey documentation of tie to Wisconsin State Plane Coordinate System, South Zone (horizontal) and City of Waukesha datum (vertical) provided. Elevations shown based on City of Waukesha datum.
☐	☐	☐	All permanent or temporary benchmarks and elevations.
☐	☐	☐	A description of the locations of the benchmarks; and the basis or origin of the vertical control network.
☐	☐	☐	Date of plan preparation and applicable revision date(s)
☐	☐	☐	The following statement: “*All site improvements and construction shown on the plans shall conform to the City of Waukesha Development Handbook & Infrastructure Specifications. Where the plans do not comply, it shall be the sole responsibility and expense of the Developer to make revisions to the plans and/or constructed infrastructure to comply.*”

Roadway

YES	NO	N/A	
☐	☐	☐	For all new streets, a site specific geotechnical evaluation and pavement design submitted with the plans.
☐	☐	☐	A separate detail sheet showing typical cross-sections for each roadway standard width and cul-de-sac if applicable.

Plan View

YES	NO	N/A	
☐	☐	☐	The assumed bearing base, control monuments and stationing reference line along the centerline of the roadway, including cul-de-sacs.
☐	☐	☐	At least one clearly labeled benchmark or control point per sheet.
☐	☐	☐	Pavement and median dimensions.
☐	☐	☐	Final grade elevations at 25’ intervals at the right-of-way including at the edge of pavement for rural sections or at the flange of curb for urban sections.
☐	☐	☐	Final grade elevations for cul-de-sacs at 25’ intervals at the right-of-way including at the edge of pavement for rural sections or at the flange of curb for urban sections.
☐	☐	☐	Label all PVC’s, PVT’s, and PC’s, PT’s for vertical and horizontal curves. Radii of all intersections (edge of pavement or flange of curb, with note indicating which is referenced).
☐	☐	☐	Driveways for all lots adjacent to storm inlets and intersections.
☐	☐	☐	Sidewalks labeled and dimensioned.
☐	☐	☐	Existing, proposed, future streets and drives labeled and dimensioned.
☐	☐	☐	All roadside ditch locations, flowline elevations at 50’ intervals of the ditches.
☐	☐	☐	Slope intercepts.
☐	☐	☐	Invert profile for 200’ downstream for any existing ditches receiving flow from a proposed road or street.
☐	☐	☐	Limits of any areas which need special stabilization techniques.
☐	☐	☐	Specific details of all existing connected roadways. Pavement, shoulders, ditches, curb alignment, and grades shall be shown as needed to adequately make the transition.

Intersection Details

YES	NO	N/A	
☐	☐	☐	Radii of all intersections (edge of pavement or flange of curb, with note indicating which is referenced).
☐	☐	☐	Sidewalks and accessible ramps labeled and dimensioned.
☐	☐	☐	Right of way corner clips and sight visibility easements.
☐	☐	☐	Spot grades as necessary to ensure proper drainage and compliant ADA slopes.
☐	☐	☐	Spot grades shall be shown at end of radius for all curb and gutter and the end radius for all back of sidewalk.
☐	☐	☐	Drainage clarified by flow arrows, high points, sags, ridges, etc. Slope intercepts shall be clearly labeled by station, elevation to the nearest 0.1’, and offset distance (left or right) from the reference line.
☐	☐	☐	Invert elevation of ditches (for rural roadway).
☐	☐	☐	Final subgrade elevation at the centerline of the street or roadway.

Cross Sections

YES	NO	N/A	
☐	☐	☐	Right of way limits.
☐	☐	☐	Slope intercepts clearly labeled.
☐	☐	☐	Elevations to the nearest 0.01'.
☐	☐	☐	Offset distance (left or right) from the reference line.
☐	☐	☐	Final grade elevations at back of walk, face of walk, top of curb, flange elevation (edge of pavement for rural section), and the centerline of the street or roadway.
☐	☐	☐	Cross slope of sidewalk, terrace area, and roadway.
☐	☐	☐	Invert elevation of ditches (for rural section)

City of Waukesha

Department of Public Works
130 Delafield Street
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Site, Grading and Drainage Plan Conditional Use Permit Checklist

Attachment C
(Rev 12/18)

Project Name: South High School

Engineering & Design Firm: Kapur Inc. - Civil Engineers
Muermann Engineering - Electrical Engineers

General Requirements

YES	NO	N/A	
☐	☐	☐	Applicant's name
☐	☐	☐	Name and location of development
☐	☐	☐	Scale and north arrow
☐	☐	☐	Date of original and revisions noted
☐	☐	☐	License number and professional seal
☐	☐	☐	Digital Drawings in AutoCAD format of the site layout & building plan layout
☐	☐	☐	Pay impact fees

Building Plans

YES	NO	N/A	
☐	☐	☐	Contact Community Development Department

Site Plans

YES	NO	N/A	
☐	☐	☐	Dimensions of development site
☐	☐	☐	Location, footprint, and outside dimensions
☐	☐	☐	Existing and proposed pedestrian access points
☐	☐	☐	Existing and proposed vehicular access points
☐	☐	☐	Parking lots, driveways shown
☐	☐	☐	Front, side and rear yard setbacks shown and labeled
☐	☐	☐	Location, identification and dimensions of all existing or planned easements
☐	☐	☐	Identification of all land to be dedicated
☐	☐	☐	Location, elevation, and dimensions of walls and fences
☐	☐	☐	Location of outdoor lighting with lighting design plan and calculations
☐	☐	☐	Sign complies with City Code Book
☐	☐	☐	Location of existing and proposed signs

Site Access

YES	NO	N/A	
☐	☐	☐	Legal description or certified survey of property
☐	☐	☐	Development compatible with its zoning district
☐	☐	☐	Sidewalks to be shown
☐	☐	☐	Site entrance drive dimensions
☐	☐	☐	Individual development vehicular entrances at least 125 feet apart
☐	☐	☐	Adjacent development share driveway where possible
☐	☐	☐	At least one vehicular and pedestrian access point to each adjoining site granted by cross easements
☐	☐	☐	Cross access to be provided with minimum paved width of 24 feet
☐	☐	☐	Design detail for all new public streets

Parking/Traffic

YES	NO	N/A	
☐	☐	☐	5-foot wide (min) paved walkway to building entrance
☐	☐	☐	7-foot parking separation from front of building
☐	☐	☐	Minimum parking spaces provided
☐	☐	☐	Service truck parking in designated service areas
☐	☐	☐	Parking spaces and layout dimensioned
☐	☐	☐	Lot paved with HMA or concrete
☐	☐	☐	Handicap parking provided
☐	☐	☐	Minimum required stacking distance
☐	☐	☐	Concrete curb and gutter around parking lot

Grading and Drainage Plans

YES	NO	N/A	
☐	☐	☐	Show existing tree lines and any obstructions (fences, structures, power poles, etc.) within the project limits.
☐	☐	☐	All proposed lot lines and lot numbers or addresses
☐	☐	☐	Lot line dimensions
☐	☐	☐	Outline of buildable areas for each lot
☐	☐	☐	Typical setbacks of buildable area to front, side and back lot lines
☐	☐	☐	All existing buildings, structures and foundations
☐	☐	☐	All existing drainage channels and watercourses
☐	☐	☐	Emergency overflow routes
☐	☐	☐	Drainage clarified by flow arrows, high points, sags, ridges, and valley gutters
☐	☐	☐	Proposed retaining wall locations with top and bottom of wall elevations at key locations
☐	☐	☐	100-year flood plain limit (both pre-and post-project)
☐	☐	☐	100-year storm water surface elevation
☐	☐	☐	Wetlands. Wetland limits labeled with bearings and distances and dimensioned to lot lines. Bearings and distances may be shown in tabulated format.

☐	☐	☐	All environmental corridors, & or environmentally sensitive areas as required by DNR
☐	☐	☐	All existing and proposed easements.
☐	☐	☐	Existing topography of the site and all areas within 50 feet of the site shown at a one foot contour interval using City of Waukesha datum. Existing contours shown as thin, dashed screened or grey lines with a readily discernable heavier line used for the 5-foot contour intervals.
☐	☐	☐	Proposed grading shown at a contour interval of 1 foot using City of Waukesha datum. Proposed contour lines shown as solid medium lines, with a discernible heavier line use for the 5-foot contour intervals.
☐	☐	☐	The yard grade and first floor elevation of proposed building and any existing buildings located within 150 feet of the parcel boundary.
☐	☐	☐	Proposed road(s), curb and gutter, all storm sewer grates and storm sewer manholes (or cross-culverts for open ditches). Show any off-road storm inlets and discharge locations with surface entry elevations.
☐	☐	☐	Spot grades as necessary to ensure proper drainage and compliant ADA slopes and routing where applicable.
☐	☐	☐	At front setback line show a typical house shell on each lot and the proposed yard grade to the nearest tenth of a foot (assumed to be 0.7' below the top of block) for each building. Show proposed finished elevations to the nearest tenth of a foot at all lot corners and alongside lot lines adjacent to the front and back corners of the typical house. Show proposed finished elevations to the nearest tenth of a foot at high and low points along any side or back lot lines, and at high and low points if roads to demonstrate proposed drainage.
☐	☐	☐	The grading plan for any house that will require special design due to topography, clearly show separate grades for the garage and yard grade if extra steps are needed. Separate spot finish elevations shown for rear or side exposure or walkout.
☐	☐	☐	Indicate minimum finished floor elevations adjacent to floodplains, ponds, creeks/channels, etc.
☐	☐	☐	Proposed storm inlets shown on each grading plan. Each plan also includes specific details on all applicable retention/detention basins, ponds, overflows, etc. Separate sheets or notes as required.
☐	☐	☐	Locations of existing and proposed streets, drives, alleys, easements, right-of-way, parking as required, vehicular and pedestrian access points, and sidewalks
☐	☐	☐	Outline of any development stages
☐	☐	☐	Location and details on any required emergency access roads
☐	☐	☐	Soil characteristics
☐	☐	☐	Existing and proposed topography shown for the site and or adjacent properties
☐	☐	☐	Floodplain, shore land, environmental and wetlands shown
☐	☐	☐	Location and dimensions of on-site storm water drainage facilities
☐	☐	☐	Location and footprint of all existing buildings
☐	☐	☐	Locations and species of existing trees
☐	☐	☐	Berm detail
☐	☐	☐	Lot grades and swales shown
☐	☐	☐	Drainage calculations provided

Erosion Control

YES	NO	N/A	
☐	☐	☐	Location Map
☐	☐	☐	Soils Survey Map
☐	☐	☐	Existing Land Use Mapping
☐	☐	☐	Predeveloped Site Conditions
☐	☐	☐	• Existing contours
☐	☐	☐	• Property lines
☐	☐	☐	• Existing flow paths and direction
☐	☐	☐	• Outlet locations
☐	☐	☐	• Drainage basin divides and subdivides
☐	☐	☐	• Existing drainage structures on and adjacent to the site
☐	☐	☐	• Nearby watercourses
☐	☐	☐	• Lakes, streams, wetlands, channels, ditches, etc.
☐	☐	☐	• Limits of the 100-year floodplain
☐	☐	☐	Practice location/layout/cross sections
☐	☐	☐	Construction Details
☐	☐	☐	Name of receiving waters
☐	☐	☐	Site description/Nature of construction activity
☐	☐	☐	Sequence of construction
☐	☐	☐	Estimate of site area and disturbance area
☐	☐	☐	Pre- and post-developed runoff coefficients
☐	☐	☐	Description of proposed controls, including
☐	☐	☐	• Interim and permanent stabilization practices
☐	☐	☐	• Practices to divert flow from exposed soils
☐	☐	☐	• Practices to store flows or trap sediment
☐	☐	☐	• Any other practices proposed to meet ordinance
☐	☐	☐	Existing topography of the site and all areas within 50 feet of the site shown at a one foot contour interval using City of Waukesha datum. Existing contours shown as thin, dashed screened or grey lines with a readily discernable heavier line used for the 5-foot contour intervals.
☐	☐	☐	Proposed grading shown at a contour interval of 1 foot using City of Waukesha datum. Proposed contour lines shown as solid medium lines, with a discernible heavier line use for the 5-foot contour intervals.
☐	☐	☐	List the total disturbed acreage including offsite areas.
☐	☐	☐	Provide free survey in accordance with City Erosion Control Ordinance
☐	☐	☐	Proposed limits of disturbance including proposed tree cutting areas.
☐	☐	☐	Location and dimensions of all temporary topsoil and dirt stockpiles.
☐	☐	☐	Location and dimensions of all appropriate best management practices (BMP).
☐	☐	☐	Phasing of BMP's with the construction activities listed / described.
☐	☐	☐	Schedule of anticipated starting and completion date of each land disturbing and land developing activity, including the installation of the BMP measures that are needed.
☐	☐	☐	Location of all channels, pipes, basins or other conveyances proposed to carry runoff to the nearest adequate outlet, including applicable design assumptions and computations.

☐	☐	☐	Areas to be sodded or seeded and mulched or otherwise stabilized with vegetation, describing the type of final vegetative cover.
☐	☐	☐	Areas of permanent erosion control (other than vegetation).
☐	☐	☐	Boundaries of the construction site
☐	☐	☐	Drainage patterns/slopes after grading activities
☐	☐	☐	Areas of land disturbance
☐	☐	☐	Locations of structural and nonstructural controls
☐	☐	☐	Drainage basin delineations and outfall locations

Optional Submittals as Determined by Review Authority

YES	NO	N/A	
☐	☐	☐	Traffic impact analysis
☐	☐	☐	Environmental impact statement
☐	☐	☐	Soil and Site Evaluation Report per DNR Technical Standard 1002
☐	☐	☐	Plot of effect of exterior illumination on site and adjacent properties
☐	☐	☐	Description of any unusual characteristics
☐	☐	☐	Street perspectives showing view corridors
☐	☐	☐	Historic site
☐	☐	☐	Economic feasibility study
☐	☐	☐	Contaminated Waste Site

I hereby certify that I have reviewed the City ordinances and provided one (1) full-sized set of all required information along with all the required reduced copies of plans.

Applicant's Signature: _____

City of Waukesha
Department of Public Works
130 Delafield Street
Waukesha, WI 53188
Waukesha-wi.gov

Stormwater Management Plan

Attachment D
(Rev 12/18)

Project Name: South High School

Engineer & Design Firm: Kapur Inc. - Civil Engineers

STORM WATER MANAGEMENT PLAN WORKSHEET			
The City of Waukesha requires a Stormwater Management Plan to be submitted with the proposed development plans for site plan review. A Stormwater Management Plan is a document describing the storm water management practices constructed and implemented within the proposed development to ensure compliance with the storm water management criteria, as set forth by the City of Waukesha. The purpose of a Stormwater Management Plan is to protect the safety and health of the public, property and aquatic environment from the threats due to storm water from land development activity. The worksheet will provide a basis to the information that shall be provided when preparing a Stormwater Management Plan for a proposed development. This Plan shall include a set of complete plans and calculations, stamped by a registered professional engineer. Stormwater Management Plans are required as listed in City Code Book Chapter 32.06(b)			
Exemptions for Design and Plan Requirements			
YES	**NO**	**N/A**	
☐	☐	☐	Site is associated with agricultural or sylvicultural activities
Design Requirements: Total Suspended Solids			
YES	**NO**	**N/A**	
☐	☐	☐	Site is a New Development – 80% Reduction must be met
☐	☐	☐	Site is an Infill Development – 80% Reduction must be met
☐	☐	☐	Site is a Redevelopment – 40% Reduction must be met
☐	☐	☐	Site has areas of New Development and Redevelopment
☐	☐	☐	Calculations for % Reduction are included in the plan (WinSLAMM input and output)
☐	☐	☐	Storm water Management Facilities to address TSS removal are designed according to Chapter 32 of the City Code Book and DNR Technical Standards – Check all that apply: ☐ Wet Detention Basin ☐ Bio Retention Basin ☐ Swales ☐ Proprietary Devices ☐ Other (specify): _____
Design Requirements: Peak Discharge			
YES	**NO**	**N/A**	
☐	☐	☐	Storm water Management Facilities to address Peak Discharge are designed according to Chapter 32 of City Code Book and DNR Technical Standards – Check all that apply: ☐ Wet Detention Basin ☐ Bio Retention Basin ☐ Swales ☐ Other (specify): _____
☐	☐	☐	Downstream Capacity for 2-year, 10-year and 100-year, 24-hour design storms are met
☐	☐	☐	Calculations of available capacity, proportional share, and proposed utilized capacity under all design storms are included in plan
☐	☐	☐	Calculations of Peak Discharge are included in the plan

Design Requirements: Infiltration			
YES	**NO**	**N/A**	
☐	☐	☐	Hydraulic Soil Type: ☐ Soil Type A – Proceed ☐ Soil Type B – Proceed ☐ Exemption or Exclusion – Provide documentation
☐	☐	☐	Site and Soil Evaluation Report per DNR Technical Standard 1002
☐	☐	☐	Low Imperviousness. Ex: low density residential parks, cemeteries Post-Development Infiltration Performance Standards: ☐ Up to 40% Connected Impervious Surface ☐ 90% of Pre-Development Infiltration volume met ☐ 1% of site – Maximum Effective Infiltration Area
☐	☐	☐	Medium Imperviousness. Ex: Medium and high density residential, multi-family, industrial, institutional, office park. Post-Development Infiltration Performance Standards: ☐ 40%-80% Connected Impervious Surface ☐ 75% of Pre-Development Infiltration volume met ☐ 2% of site – Maximum Effective Infiltration Area
☐	☐	☐	High Imperviousness. Ex: commercial strip malls, shopping centers, commercial downtowns Post-Development Infiltration Performance Standards: ☐ Greater than 80% Connected Impervious Surface ☐ 60% of Pre-Development Infiltration volume met ☐ 2% of site – Maximum Effective Infiltration Area
☐	☐	☐	Site has parking lots and new road construction: ☐ Pretreatment included ☐ 10% Infiltration of the runoff from the tow-year, 24-hour design storm with Type II Distribution
☐	☐	☐	Calculations of Infiltration Volumes are included in the plan and model input and output (WinSLAMM)
☐	☐	☐	Exclusions for Infiltration: ☐ Tier 1 Industrial Facility ☐ Storage and Loading Areas of Tier 2 Industrial Facility ☐ Fueling and Vehicle Maintenance Facility ☐ Areas within 1,000 feet up gradient of Karst Features ☐ Areas within 100 feet downgradient of Karst Features ☐ Areas with < 3 feet of separation from bottom of Infiltration System to seasonal high groundwater or top of bedrock (does not prohibit roof runoff) ☐ Areas with runoff from industrial, commercial and institutional parking lots and roads with < 5 feet separation from bottom of infiltration system to elevation of seasonal high groundwater or top of bedrock ☐ Areas within 400 feet of community water system well ☐ Areas within 100 feet of private well ☐ Areas where contaminants of concern (defined by NR720.03(2) are present in the soil through which infiltration will occur) ☐ Area where soil does not meet any of the following characteristics between bottom of infiltration system and seasonal high groundwater and top of bedrock: ☐ *At least 3-foot soil layer with 20% fines or greater* ☐ *At least 5-foot soil layer with 10% fines or greater*

YES	NO	N/A	
☐	☐	☐	Exemptions for Infiltration: ☐ Areas where infiltration rate < 0.6 inches/hour ☐ Parking Areas and Access Roads less than 5,000 square feet for commercial and industrial ☐ Redevelopment Post-Construction Sites ☐ Infill Development < 5 acres ☐ Infiltration during periods when soil on the site is frozen ☐ Roads in commercial, industrial and institutional land uses ☐ Arterial Roads in Residential land uses
☐	☐	☐	Storm water Management Facilities to address Infiltration are designed according to Chapter 32 of the City Code Book and DNR Technical Standards – Check all that apply: ☐ Bioretention Basin (1004) ☐ Infiltration Basin (1003) ☐ Infiltration Trench (1007) ☐ Permeable Pavement (1008) ☐ Rain Garden (1000) ☐ Other (specify): _____
Design Requirements: Protective Areas			
YES	**NO**	**N/A**	
☐	☐	☐	Impervious areas are outside protective area. If not, provide a written explanation.
☐	☐	☐	Land disturbing activities are within a protective area. If **Yes**, check all that apply: ☐ If no impervious area is within protective area, adequate sod or self-sustaining vegetative cover of 70% or greater shall be established. ☐ Adequate sod or self-sustaining vegetative cover is sufficient for bank stability, maintenance of fish habitat and filtering of pollutants from upslope overland flow areas under sheet flow conditions. ☐ Non-Vegetative materials are employed on the bank as necessary to prevent erosion (steep slopes, high velocity areas).
☐	☐	☐	Best Management Practices are located within the protective area – Check all that apply: ☐ Filter Strips ☐ Swales ☐ Wet Detention Basins ☐ Other (specify): _____
☐	☐	☐	Non-Applicable Areas Apply: ☐ Structures that cross or access surface water (boat landing, bridge, culvert) ☐ Structures constructed in accordance with Section 59.692(1v) Wisconsin Statutes: ☐ Post-Construction Runoff does not enter surface water except to the extent that vegetative groundcover necessary for bank stability
Design Requirements: Fuel and Maintenance Facilities			
YES	**NO**	**N/A**	
☐	☐	☐	Are Fuel and Maintenance Facilities on the Site?
☐	☐	☐	Are Best Management Practices designed to reduce petroleum within runoff (no visible sheen)?

Design Requirements: Swale Treatment for Transportation Facilities			
YES	**NO**	**N/A**	
☐	☐	☐	Does the site use swales for runoff conveyance and pollutant removal for transportation facilities? If **Yes**, must have the following: *Groundcover:* ☐ Vegetated ☐ Non-Vegetated where appropriate to prevent erosion or provide runoff treatment (riprap, check dams) *Swale Velocity Control:* ☐ Swale is 200 feet or more in length with a velocity no greater than 1.5 feet per second for the two-year, 24-hour design storm or two-year storm with duration equal to time of concentration ☐ Swale is 200 feet or more in length with velocity > 1.5 feet per second then velocity is reduced to maximum extent practicable. Written explanation stating why requirement of > 1.5 feet per second cannot be met
☐	☐	☐	Exemptions Apply: Average Daily Vehicles > 2,500 and initial surface water of the state that runoff directly enters is any of the following: ☐ An outstanding resource of water (ORW) ☐ An exceptional resource water (ERW) ☐ Water is listed in Section 303(d) of the Federal Clean Water Act and is identified as impaired in whole or in part due to non-point source impacts ☐ Water where targeted performance standards are developed under NR 151.004 of the Wisconsin Administrative Code to meet water quality standards
Plan Requirements			
YES	**NO**	**N/A**	
☐	☐	☐	Provide permit application form, including contact information (name, address, telephone number) for the landowner, developer, land operator, certified project engineering, responsible party for installation of storm water management practices, responsible party for long-term maintenance of the storm water management practices.
☐	☐	☐	Legal Description of proposed development.
☐	☐	☐	Narrative describing the proposed development.
☐	☐	☐	Brief summary of Design Criteria and methods used for development of Storm Water Management Practices.
☐	☐	☐	Storm Water Management Maintenance Agreement shall be included with the Storm Water Management Plan (see Storm Water Management Maintenance Agreement template for additional information required).
☐	☐	☐	Certification by a Wisconsin registered professional engineer.
☐	☐	☐	Financial Guarantee.

Description and Site Characteristics for Pre/Post Development conditions shall be delineated by one (1) or more site maps at a scale of not less than one (1") inch equals two hundred (200') feet. The map(s) shall include, at minimum, the following information:			
YES	**NO**	**N/A**	
☐	☐	☐	Site Location and Legal Description.
☐	☐	☐	Pre-developed and revised topography by contours related to USGS survey datum or other datum approved by City. The topographic contours of the site shall not exceed 2 feet. The topography shall extend at minimum 100 feet outside the site boundaries to show runoff patterns onto, through and from the site.
☐	☐	☐	One hundred (100) year Floodplain boundary, shore land, environmental corridors, and wetland boundaries shall be delineated if applicable
☐	☐	☐	All lakes, streams, and other water bodies illustrated on map shall be named as defined on a USGS 7.5 minute topographic map.
☐	☐	☐	Predominant Soil Types and Hydraulic Soil Group Classifications per NRCS
☐	☐	☐	Coordinates of all manhole and inlets with reference to two nearest reference point monuments which shall be Section or ¼ Section corners.
☐	☐	☐	Location, capacity, and dimensions/details of on-site Pre-developed and Post-developed storm water management facilities such as, but not limited to, the following: manholes, pipes, curbs, gutters, curb inlets, filter strips, swales, detention basins, curb cuts, and drainage gates.
☐	☐	☐	Location, extent, detailed drawings, typical cross sections and slope ratios of all pre-developed and post-developed storm water retention and detention areas and drainage ways – list inlet/outlet elevations, permanent water surface elevation, high water surface elevation, and emergency spillway elevation, if applicable.
☐	☐	☐	Location and Elevations at top and bottom of pre-developed and post-developed buildings and structures.
☐	☐	☐	Locations and names of pre-developed and post-developed streets and intersections and the location of parking lots, sidewalks, bike paths and impervious surfaces (excluding single family residences). Map(s) shall clearly differentiate pre-developed and post-developed surfaces.
☐	☐	☐	Delineation and dimensions of all pre-developed and post-developed property boundaries, easements, right-of-way, building setbacks, maintenance easements, and other restrictions.
☐	☐	☐	Pre-developed and post-developed land use boundaries, including cover type and condition.
☐	☐	☐	Post-developed land use cover totals for Impervious and Pervious areas as well as permanent water surface area of all storm water management facilities.
☐	☐	☐	Delineation of pre-developed and post-developed watershed and sub-watershed boundaries used in determination of Peak flow discharges and discharge volumes from the site. (If the watershed extends beyond the site boundaries, a separate watershed map can be supplied).
☐	☐	☐	Location of the pre-developed and post-developed discharge points.
☐	☐	☐	Pre/Post developed directional Flow Paths used to calculate existing/proposed time of concentrations.
☐	☐	☐	Location of the Emergency Overland Flow.
☐	☐	☐	Location of any Regional Treatment Options (if applicable).
☐	☐	☐	Identify all pre-developed land cover features, such as, natural swales, natural depressions, native soil infiltrating capacity and natural groundwater recharge areas.
☐	☐	☐	Location of any protective areas within the site.
☐	☐	☐	Location of wells located within 1,200 feet of pre-developed and post-developed Storm Water Detention Basins, Infiltration Basins, or Infiltration Trenches.
☐	☐	☐	Delineation of Wellhead protection areas defined under NR 811.16

Supportive Information and Calculation summaries shall be supplied for all storm water management requirements as dictated in the checklist under Design Requirements:			
YES	**NO**	**N/A**	
☐	☐	☐	Pre-developed and post-developed watershed, sub-watersheds, and land use areas (acres, watershed shall be delineated by property lines).
☐	☐	☐	Pre-developed and post-developed impervious areas (acres).
☐	☐	☐	Pre-developed and post-developed Runoff Curve Numbers.
☐	☐	☐	Pre-developed and post-developed Time of Concentration.
☐	☐	☐	Pre-developed and post-developed peak flows for the 2-year, 10-year and 100-year, 24-hour storm events for each discharge point.
☐	☐	☐	Total suspended solids removal computations to show compliance.
☐	☐	☐	Design computations for the runoff volume of the pre-developed and post-developed conditions to show compliance with the infiltration requirements.
☐	☐	☐	Design computations for all storm water drainage facilities such as, but not limited to, inflow/outflow rates, hydrographs, water surface elevations, outlet design computations, runoff discharge volume, velocities, and stage/storage data.
☐	☐	☐	Design computations for the 10-year Rational Method flows for all proposed storm conveyance systems.
☐	☐	☐	Computation of the available downstream capacity flowing full, overflow level of ditches and the top of the upstream end of the pipe for any culverts.
☐	☐	☐	Computation of the downstream capacity using the 5-year rational storm.
☐	☐	☐	Tail water analysis included in storm water design for 2-year, 10-year and 100-year storm events.
☐	☐	☐	Design computations to illustrate compliance with pollutant loading criteria (Storm Water Quality Management practices) with pre- and post-storm water management facilities.
☐	☐	☐	Narrative describing all assumptions that were deemed appropriate for design.
☐	☐	☐	Explanation of provisions to preserve and use natural topography and land cover features.
☐	☐	☐	Explanation of restrictions on Storm Water Management practices by wellhead protection plans (if applicable).
☐	☐	☐	Results of investigations of soil and groundwater required for installation of Storm Water Management practices.
☐	☐	☐	Impact assessment results on Wetland Functional Values (if applicable).
☐	☐	☐	Storm Water Management practices installation schedule.
☐	☐	☐	Cost estimate for the construction, operation and maintenance of each Storm Water Management practice.
☐	☐	☐	Any additional information that the City, or designee, may need to evaluate the impacts of the storm water discharge quality and quantity on the existing area and existing utilities.

City of Waukesha
Department of Public Works
130 Delafield Street
Waukesha, WI 53188
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Certified Survey Map Checklist

Attachment E
(Rev 12/18)

Project Name: _____

Engineer & Design Firm: _____

Surveyor: _____

Checklist to be completed and signed:			
YES	**NO**	**N/A**	
☐	☐	☐	Scale and north arrow
☐	☐	☐	Scale of plans less than or equal to 1" = 100'
☐	☐	☐	Date of original and revisions noted
☐	☐	☐	Certification from surveyor that Plat complies with State Statute 236
☐	☐	☐	Digital PDF submitted
☐	☐	☐	Location of all existing structures and first floor elevations
☐	☐	☐	Location of utility and drainage easements
☐	☐	☐	Exact length and bearing of the centerline of all streets
☐	☐	☐	Exact street width along the line of any obliquely intersecting street
☐	☐	☐	Railway rights-of way within and abutting the plat
☐	☐	☐	Location and size of all lands to be dedicated for public use (when required)
☐	☐	☐	Comprehensive site grading drainage plan
☐	☐	☐	Special restrictions relating to access control, planting strips, restrictive yard requirements, etc. (when required)
☐	☐	☐	Map shows entirety of all parcels in proposed certified survey map
☐	☐	☐	Major street setback or WisDOT setbacks (if applicable)
☐	☐	☐	Floodplain limits of the 100-year recurrence interval flood
☐	☐	☐	Location of any wetlands, shore land, or other environmental areas (if applicable)
Plans to be submitted (when applicable):			
YES	**NO**	**N/A**	
☐	☐	☐	Street plans and profiles
☐	☐	☐	Sanitary sewer plans and profiles
☐	☐	☐	Storm sewer plans
☐	☐	☐	Grading and drainage plans
☐	☐	☐	Water main plans and profiles
☐	☐	☐	Erosion control plans
☐	☐	☐	Landscape plans

City of Waukesha
Department of Public Works
130 Delafield Street
Waukesha, WI 53188
Waukesha-wi.gov

Sewer Plan Review Checklist

Attachment H
(Rev 12/18)

Project Name: South High School

Engineering & Design Firm: Kapur Inc. - Civil Engineers

Sanitary System

YES	NO	N/A	
☐	☐	☐	Minimum 4" sanitary sewer lateral from the main to the property line, PVC SDR 26 or 35 conforming to ASTM standards D 3034 with rubber gasket joints
☐	☐	☐	Sanitary sewer laterals shall have a green #12 locater wire installed along the entire length. Locater wire shall be brought to the surface at the edge of the building and enclosed in a curb box with "sewer" on the cover.
☐	☐	☐	Sampling manhole required for all food service developments (or developments with the potential to become food service) and industrial/manufacturing facilities.
☐	☐	☐	Industrial facilities must complete an industrial discharge form.
☐	☐	☐	Outside drop manhole connection required where drop is greater than 24 inches.
Sanitary Plan View			
YES	**NO**	**N/A**	
☐	☐	☐	Ghost existing utilities and lateral locations in screened format. Label the pipe size of existing utilities.
☐	☐	☐	Label the proposed sewer and laterals with length, size, and material type
☐	☐	☐	Material and size of the existing sanitary sewer being connected to.
☐	☐	☐	Label the stub-outs with length, size, slope, and invert elevations (if not profiled).
☐	☐	☐	Dimensions showing offset from right-of-way to the sewer and separation distance between other utilities.
☐	☐	☐	Show type and size of encasement where needed
☐	☐	☐	Show flow directions of all proposed mains.
☐	☐	☐	Length of each sewer lateral and height of any lateral risers. Label proposed invert elevations at right-of-way lines.
☐	☐	☐	Distance from downstream manhole to each upstream sewer lateral.
☐	☐	☐	Proposed manholes and cleanouts labeled with a design plan number. Existing manholes labeled with numbers obtained from City records.
☐	☐	☐	Rim and invert elevations at each manhole, based on City of Waukesha datum (for private sewer if not profiled)
☐	☐	☐	Show and label all easements
Sanitary Profile View			
YES	**NO**	**N/A**	
☐	☐	☐	Stationing.
☐	☐	☐	Existing and proposed surface profiles and elevations over the sewer.
☐	☐	☐	All utility crossings. Label elevations if known.

☐	☐	☐	Pipe material / class, size, length, and percent grade to two (2) decimal places.
☐	☐	☐	Material and size of the existing sanitary sewer being connected to.
☐	☐	☐	Length, type, and size of encasement as needed.
☐	☐	☐	Proposed manholes. Indicate type and diameter.
☐	☐	☐	Label station, rim, and invert elevations, based on City of Waukesha datum, and design plan number for each manhole and cleanout. Existing manholes to be labeled with numbers obtained from City records.
☐	☐	☐	Limits of gravel and/or slurry backfill.
Sanitary for Subdivisions/Large Developments			
(Complete copies of City specifications for sanitary sewer are available upon request.)			
YES	**NO**	**N/A**	
☐	☐	☐	Each parcel should have a separate sanitary sewer lateral.
☐	☐	☐	Sanitary sewer – 8 ft. horizontal separation from water main per DNR requirements. 8" diameter minimum size, PVC SDR 26 for depths up to 25 ft.
☐	☐	☐	Sanitary sewer manhole at every change of direction and a maximum distance of 400 ft.
☐	☐	☐	A chimney seal shall be required on all manholes.
☐	☐	☐	Provide copies of all approved WDNR/WDOC submittals, including sewer sizing calculation worksheet and the area served.

Storm System

Storm Plan View			
YES	**NO**	**N/A**	
☐	☐	☐	Ghost existing utilities and lateral locations in screened format. Pipe size of existing utilities labeled.
☐	☐	☐	Proposed sewer and laterals with length, size, and material type clearly labeled.
☐	☐	☐	Material and size of the existing storm sewer being connected to.
☐	☐	☐	Stub-outs labeled with length, size, slope, and invert elevations (if not profiled).
☐	☐	☐	Dimensions showing offset from right-of-way to the sewer and separation distance between other utilities.
☐	☐	☐	Type and size of encasement where needed
☐	☐	☐	Length of any sewer lateral. Label proposed invert elevations at right-of-way lines.
☐	☐	☐	Proposed inlets, manholes, and other drainage structures.
☐	☐	☐	Proposed drainage structures labeled with a design plan number. Existing drainage structures labeled with numbers obtained from City records.
☐	☐	☐	Details of outfall or ditch inlet protection requirements such as rip-rap, end sections or headwalls as needed.
☐	☐	☐	Details of detention facilities, outfall, overflow and control structures as needed.
Storm Profile View			
YES	**NO**	**N/A**	
☐	☐	☐	Stationing.
☐	☐	☐	Existing and proposed surface profiles and elevations over the sewer.
☐	☐	☐	All utility crossings. Label elevations if known.
☐	☐	☐	Pipe material / class, size, length, and percent grade to two (2) decimal places.
☐	☐	☐	Material and size of the existing storm sewer being connected to
☐	☐	☐	Length, type, and size of encasement as needed.
☐	☐	☐	Proposed inlets, manholes, and other drainage structures. Label type and size.
☐	☐	☐	Label station, rim, and invert elevations, based on City of Waukesha datum, at each manhole, catch basin, inlet, and detention control structure.

☐	☐	☐	Proposed drainage structures labeled with a design plan number. Existing drainage structures to be labeled with numbers obtained from City records.
☐	☐	☐	Cross-section of open channels and detention facilities, including outfall, overflow, and control structures.
☐	☐	☐	Limits of gravel and/or slurry backfill.

General System

YES	NO	N/A	
☐	☐	☐	Show all easements, public or private.
☐	☐	☐	No structures allowed within a public easement.
☐	☐	☐	Plantings or signs within public easements, if permitted by City, shall be at least 5 feet from the utilities.
General for Subdivisions/Large Developments			
YES	**NO**	**N/A**	
☐	☐	☐	Provide plans sealed by Registered Professional Engineer
☐	☐	☐	Show benchmark, north arrow and scale.
☐	☐	☐	Show existing/proposed sewer and water utilities.
☐	☐	☐	All sewer to be installed by the developer under the terms of a Development Agreement.
Utility Plans			
YES	**NO**	**N/A**	
☐	☐	☐	Location of all utilities: storm and sanitary sewers, water mains, fire hydrants, electrical, natural gas, and communication (cable television, telephone, etc.) lines
☐	☐	☐	Exterior lighting for parking and other outdoor areas, outdoor signs, and building exteriors.
☐	☐	☐	Location of waste and trash collection, and indicate plans for snow removal.
☐	☐	☐	Location and footprint of any and all buildings
☐	☐	☐	Location and names of existing and proposed streets
☐	☐	☐	Location and size of existing and proposed storm sewer, sanitary sewer, and water utility systems shown
☐	☐	☐	Electric, gas, telephone, and cable lines shown
☐	☐	☐	All new utilities are underground
☐	☐	☐	Exterior lighting detail provided
☐	☐	☐	Location of all utility and private fire hydrants
☐	☐	☐	Sampling manhole shown (if applicable)
☐	☐	☐	Grease interceptor shown (if applicable)
☐	☐	☐	Location and size of existing and proposed water meters
Include the following notes on the Utility Plan:			
YES	**NO**	**N/A**	
☐	☐	☐	All sanitary sewer to be installed in accordance with City of Waukesha standards.
☐	☐	☐	All applications and fees for sanitary sewer must be completed and paid prior to connection to sewer systems.
☐	☐	☐	Any utility work in the right-of-way and all sanitary sewer connections to be inspected by City. Notify City 72 hours in advance of connecting to sewer.
The above list contains items that are commonly missed on Utility Plans. For subdivisions or other large or complex projects, a complete plan review includes many more checks too numerous to list here. Please call (262) 524-3600 for additional information. City typical sewer details can be provided upon request.			
Note: For water main, contact Waukesha Water Utility at (262) 521-5272			

City of Waukesha
Department of Public Works
130 Delafield Street
Waukesha, WI 53188
Waukesha-wi.gov

Landscape Plan Checklist

Attachment I
(Rev 12/18)

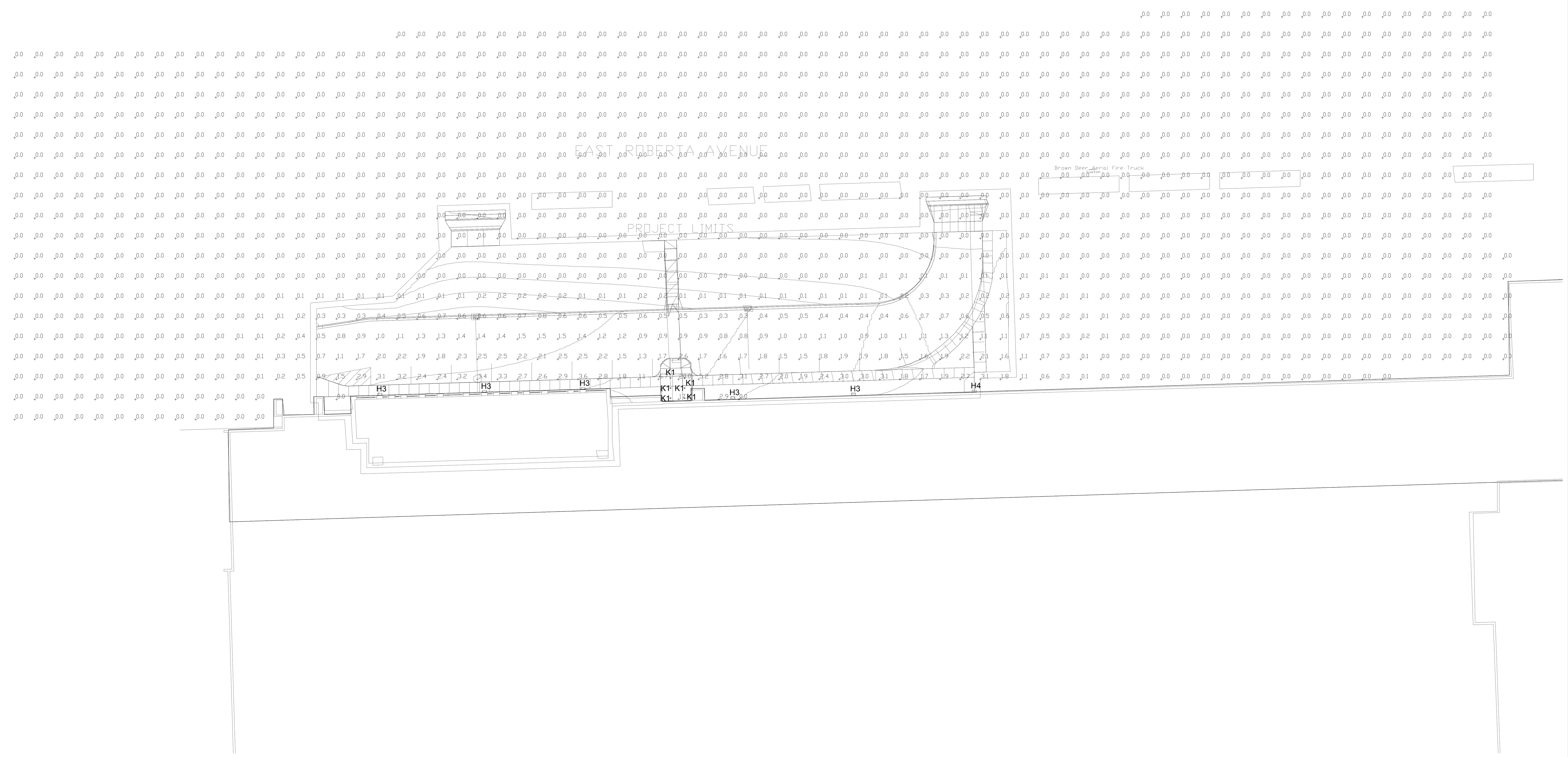
Project Name: South High School

Engineering & Design Firm: Kapur Inc. - Civil Engineers

☐ Contact Community Development Department for Requirements

Listed below are general design considerations only:

YES	NO	N/A	
☐	☐	☐	Show easements
☐	☐	☐	Location and footprint of any and all buildings
☐	☐	☐	Dimensions of development site along property line
☐	☐	☐	Existing and proposed streets
☐	☐	☐	Pedestrian and vehicular access points
☐	☐	☐	Location and dimensions of parking lots, etc.
☐	☐	☐	Location and dimensions of all existing or planned easements
☐	☐	☐	Location and dimensions of snow removal and storage areas
☐	☐	☐	Location and dimensions of outdoor lighting fixtures
☐	☐	☐	Interior parkway provided
☐	☐	☐	Parkway provided
☐	☐	☐	Buffer strip provided
☐	☐	☐	Dumpster enclosure details
☐	☐	☐	Parking lot landscaping
☐	☐	☐	Utility/mechanical equipment screened
☐	☐	☐	Service area screened
☐	☐	☐	Location of freestanding signs
☐	☐	☐	Walls and fences shown
☐	☐	☐	Location of utilities
☐	☐	☐	Existing and proposed contours and grades, including berm elevations
☐	☐	☐	Location, name and size of proposed plant materials
☐	☐	☐	Specifications of all types of all proposed ground cover, i.e., seed, sod, etc.
☐	☐	☐	Location, species, and size of existing trees
☐	☐	☐	Clear identification of trees to be removed
☐	☐	☐	Square footage of parking lot area
☐	☐	☐	Tree protection plan



SITE PLAN - PHOTOMETRIC

Scale: 1" = 30'-0"

PLAN NORTH

GENERAL NOTES:
1. SITE LIGHTING CALCULATED AT GRADE.

WAUKESHA SOUTH HIGH SCHOOL SITE FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP TYPE	VOLT	WATTS	MANUFACTURER	CATALOG NUMBER	NOTE
H3	SIZE 1 LED WALL PACK - FULL CUTOFF - TYPE 3 MEDIUM - 5487 LUMENS	5000K LED	120-277	46	LITHONIA	DSXW1LED-20C-700-50K-T3M-MVOLT	1
H4	SIZE 1 LED WALL PACK - FULL CUTOFF - TYPE 4 MEDIUM - 5376 LUMENS	5000K LED	120-277	46	LITHONIA	DSXW1LED-20C-700-50K-T4M-MVOLT	1
K1	6" LED RECESSED DOWNLIGHT - 1000 LUMENS	5000K LED	120-277	10.4	LITHONIA	LDN6-50/10-LO6-AR-LSS-MVOLT	1

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR FIXTURE REQUIREMENTS.
2. NO ALTERNATE FIXTURES.
3. ALL INTERIOR LED FIXTURES TO HAVE A MINIMUM CRI OF 80+. ALL EXTERIOR LED FIXTURES TO HAVE A MINIMUM CRI OF 70+.
4. MOUNT FIXTURES AT HEIGHT INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.

PLAN NOTES:
1. ARCHITECT TO SELECT STANDARD COLOR AND FINISH.

10/4/2018 1:11:12 PM
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53082
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MUERMANN ENGINEERING
Solid planning, superior solutions

Project Title:
**ADDITION AND REMODELING TO:
WAUKESHA SOUTH HIGH SCHOOL
SCHOOL DISTRICT OF WAUKESHA
401 E ROBERTA AVE, WAUKESHA, WI 53186**

REVISIONS:

△	DATE	DESCRIPTION

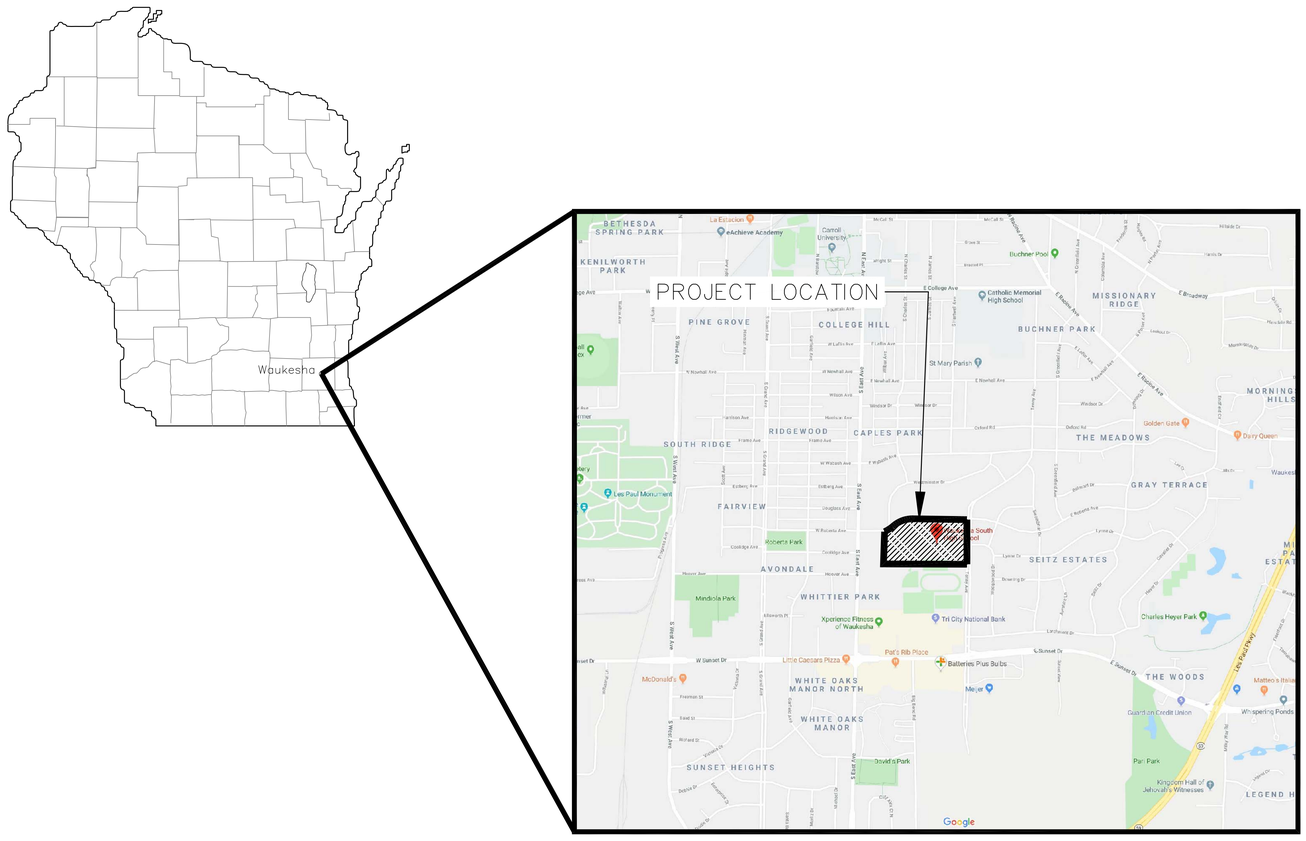
Project Number:
3353

Issued For:
CITY SUBMITTAL
11/06/2019

Sheet Title:
SITE PLAN - PHOTOMETRIC

Sheet Number:
E0.00

WAUKESHA SOUTH HIGH SCHOOL
SCHOOL DISTRICT OF WAUKESHA



INDEX TO DRAWINGS

SURVEY INFORMATION

1) BEARINGS ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD 27.
2) ELEVATIONS ARE BASED ON NGVD 29 DATUM.
3) EXISTING TOPOGRAPHY IS BASED ON FIELD SURVEY TAKEN ON 12/04/2018 BY KAPUR & ASSOCIATES, INC.
4) REFER TO SHEET C1.0 FOR ADDITIONAL INFORMATION.

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

*ALL SITE IMPROVEMENTS AND CONSTRUCTION SHOWN ON THE PLANS SHALL CONFORM TO THE CITY OF WAUKESHA DEVELOPMENT HANDBOOK & INFRASTRUCTURE SPECIFICATIONS. WHERE THE PLANS DO NOT COMPLY, IT SHALL BE THE SOLE RESPONSIBILITY AND EXPENSE OF THE DEVELOPER TO MAKE REVISIONS TO THE PLANS AND/OR CONSTRUCTED INFRASTRUCTURE TO COMPLY.

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DANIEL M. JANKE
E-40464
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Milwaukee, WI 53217
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Project Title:
Additions and Remodeling to:
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School District of Waukesha
401 E Roberta Ave, Waukesha, WI 53186

REVISIONS:

#	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

Project Number:
3353

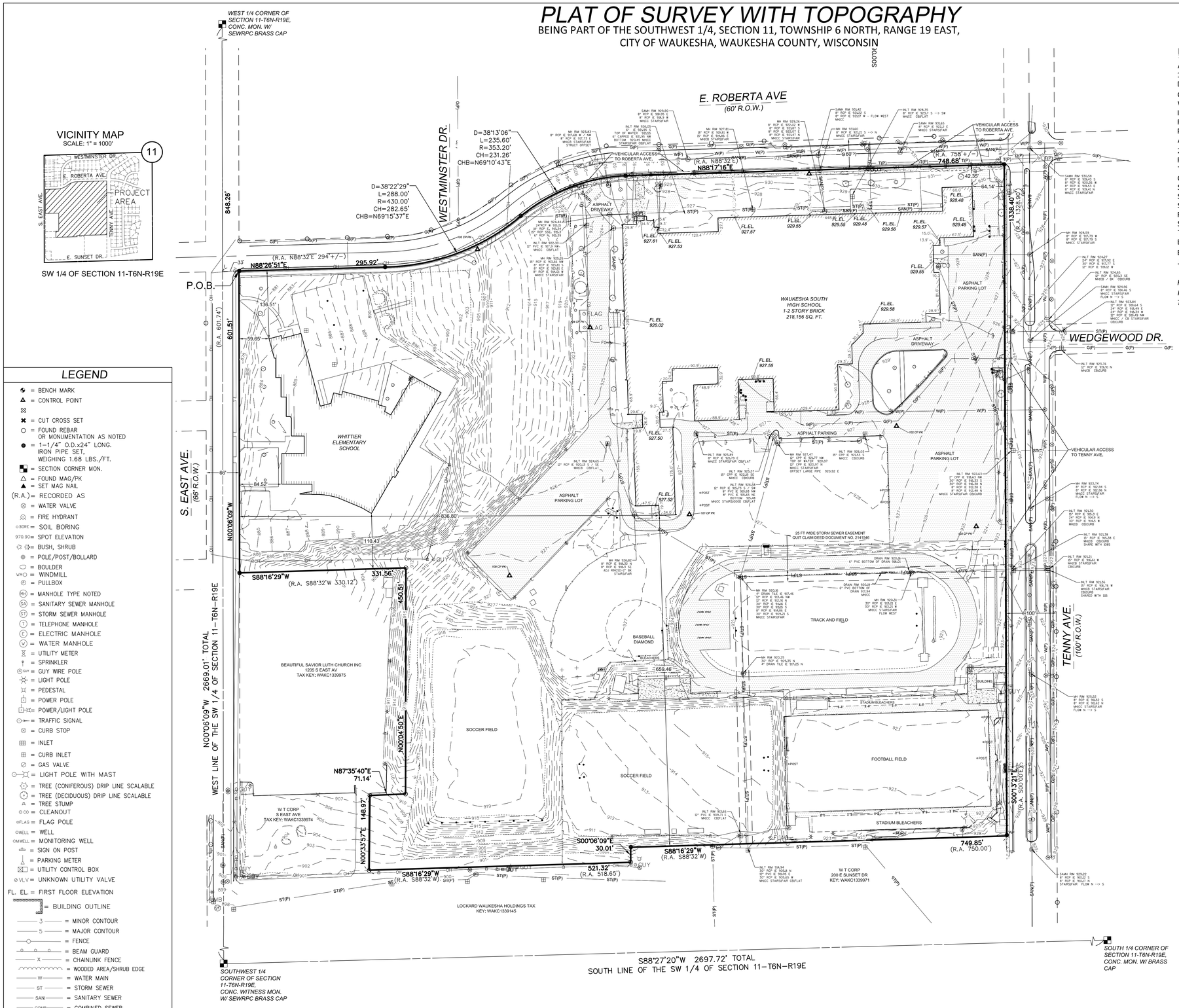
Issued For:
PLAN COMMISSION REVIEW
11/11/2019

Sheet Title:
TITLE SHEET & LOCATION MAP

Sheet Number:
T1.1

PLAT OF SURVEY WITH TOPOGRAPHY

BEING PART OF THE SOUTHWEST 1/4, SECTION 11, TOWNSHIP 6 NORTH, RANGE 19 EAST,
CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN



LEGEND

- = BENCH MARK
- = CONTROL POINT
- = CUT CROSS SET
- = FOUND REBAR OR MONUMENTATION AS NOTED
- = 1-1/4" O.D.x24" LONG. IRON PIPE SET, WEIGHING 1.68 LBS./FT.
- = SECTION CORNER MON.
- = FOUND MAG/PK
- = SET MAG NAIL
- (R.A.) = RECORDED AS
- = WATER VALVE
- = FIRE HYDRANT
- BORE = SOIL BORING
- 970.90 = SPOT ELEVATION
- = BUSH, SHRUB
- = POLE/POST/BOLLARD
- = BOULDER
- WMO = WINDMILL
- (P) = PULLBOX
- (MH) = MANHOLE TYPE NOTED
- (SA) = SANITARY SEWER MANHOLE
- (ST) = STORM SEWER MANHOLE
- (T) = TELEPHONE MANHOLE
- (E) = ELECTRIC MANHOLE
- (W) = WATER MANHOLE
- = UTILITY METER
- = SPRINKLER
- GW = GUY WIRE POLE
- = LIGHT POLE
- = PEDESTAL
- = POWER POLE
- = POWER/LIGHT POLE
- = TRAFFIC SIGNAL
- = CURB STOP
- = INLET
- = CURB INLET
- = GAS VALVE
- = LIGHT POLE WITH MAST
- = TREE (CONIFEROUS) DRIP LINE SCALABLE
- = TREE (DECIDUOUS) DRIP LINE SCALABLE
- = TREE STUMP
- CO = CLEANOUT
- FLAG = FLAG POLE
- WELL = WELL
- MWELL = MONITORING WELL
- = SIGN ON POST
- = PARKING METER
- = UTILITY CONTROL BOX
- VLV = UNKNOWN UTILITY VALVE

FL. EL. = FIRST FLOOR ELEVATION

= BUILDING OUTLINE

- 3 = MINOR CONTOUR
- 5 = MAJOR CONTOUR
- = FENCE
- = BEAM GUARD
- X = CHAINLINK FENCE
- = WOODED AREA/SHRUB EDGE
- W = WATER MAIN
- ST = STORM SEWER
- SAN = SANITARY SEWER
- COMB = COMBINED SEWER
- G = NATURAL GAS MAIN
- T = UNDERGROUND TELEPHONE
- E = UNDERGROUND ELECTRIC
- OH = OVERHEAD UTILITY LINES
- FO = UNDERGROUND FIBER OPTIC
- TV = UNDERGROUND CABLE TV
- BES = BUREAU OF ELEC. SERV. CI. MIL.
- STM = STEAM LINE
- C = COMMUNICATION CONDUIT

(P) IN LINESTYLE INDICATES, DRAWN PER EXISTING PLANS AND ARE APPROXIMATE

- = ASPHALT SURFACE
- = CONCRETE SURFACE
- = WETLANDS

CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	TYPE
100	366470.21	2474909.43	927.35	CP PK
101	366592.08	2475267.84	926.84	CP PK
102	366768.17	2475680.44	927.77	CP PK
103	366568.16	2475839.36	924.57	CP PK
104	366964.60	2475070.00	924.27	CP PK
105	367120.40	2474845.83	905.77	CP PK
106	367271.03	2475506.38	931.51	CP PK

LEGAL DESCRIPTION

ALL THAT PART OF THE SOUTHWEST 1/4 OF SECTION 11, TOWNSHIP 6 NORTH, RANGE 19 EAST, IN THE CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN, BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE WEST CORNER OF SAID SECTION 11; THENCE SOUTH ALONG THE WEST LINE OF SAID SECTION, 848.79 FEET; THENCE EAST, 33.00 FEET TO THE INTERSECTION OF THE EAST LINE OF S. EAST AVENUE AND THE SOUTH LINE OF E. ROBERTA AVENUE AND THE PLACE OF BEGINNING OF THE FOLLOWING DESCRIBED PROPERTY; THENCE NORTH 88°32' EAST, ALONG SAID SOUTH LINE OF E. ROBERTA AVENUE,

294.40 FEET MORE OR LESS TO THE BEGINNING OF A CURVE; THENCE NORTHEAST, 288 FEET MORE OR LESS ALONG SAID SOUTH LINE AND THE ARC OF A CURVE TO THE P.R.C.; THENCE NORTHEAST, 258 FEET MORE OR LESS ALONG SAID SOUTH LINE AND THE ARC OF A CURVE TO THE END OF SAID CURVE; THENCE NORTH 88°32' EAST ALONG SAID SOUTH LINE, 840 FEET TO THE WEST LINE OF TENNY AVENUE; THENCE SOUTH ALONG SAID WEST LINE, 1328.90 FEET; THENCE SOUTH 88°32' WEST, 750.00 FEET; THENCE SOUTH, 30.01 FEET; THENCE SOUTH 88°32' WEST, 518.65 FEET; THENCE NORTH, 309.185 FEET; THENCE NORTH 88°32' EAST, 72.819 FEET; THENCE NORTH, 290.00 FEET; THENCE SOUTH 88°32' WEST, 330.12 FEET TO THE EAST LINE OF AFORESAID S. EAST AVENUE; THENCE NORTH ALONG SAID EAST LINE, 601.74 FEET TO THE AFORESAID SOUTH LINE OF E. ROBERTA AVENUE AND THE PLACE OF BEGINNING.

EXCEPTING THEREFROM THAT PART CONVEYED IN WARRANTY DEED RECORDED JANUARY 24, 2000 AS DOCUMENT NO. 2535648.

FOR INFORMATIONAL PURPOSES ONLY:
PROPERTY ADDRESS: 401 EAST ROBERTA AVENUE, WAUKESHA, WI 53186
TAX KEY NUMBER: WAKC 1339.976

BEARINGS ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD 27.

ELEVATIONS ARE BASED ON NGVD 29 DATUM

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REGISTERS HOTLINE TICKETS:
20190203355, 20190203358, 20190203383, 20190203384

ALTHOUGH DIGGERS' HOTLINE WAS NOTIFIED THIS SURVEY DOES NOT GUARANTEE THAT ALL UTILITIES HAVE BEEN LOCATED ON SITE. SOME OF THE UTILITIES MAY HAVE BEEN DRAWN IN PER PLAN BASED ON MAPS RECEIVED FROM MEMBERS NOTIFIED. LACKING EXCAVATION THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION MAY BE NECESSARY.

SURVEYOR'S CERTIFICATE:

I, Brian Sandberg do hereby certify that that under My direction and control the the above described property was surveyed on 4/2/2019 in accordance with AE-7 of the Wisconsin Administrative Code and is correct to the best of my knowledge and belief.

Brian Sandberg

Brian E. Sandberg S-2500
APRIL 29, 2019

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.751.7200 Fax: 414.351.4117
www.kapurengineers.com

PROJECT:
SOUTH HIGH SCHOOL

LOCATION:
401 E ROBERTA AVE
WAUKESHA, WI 53186

CLIENT:
SCHOOL DISTRICT OF WAUKESHA

RELEASE:
FINAL

REVISIONS:

#	DATE	DESCRIPTION

NORTH ARROW:

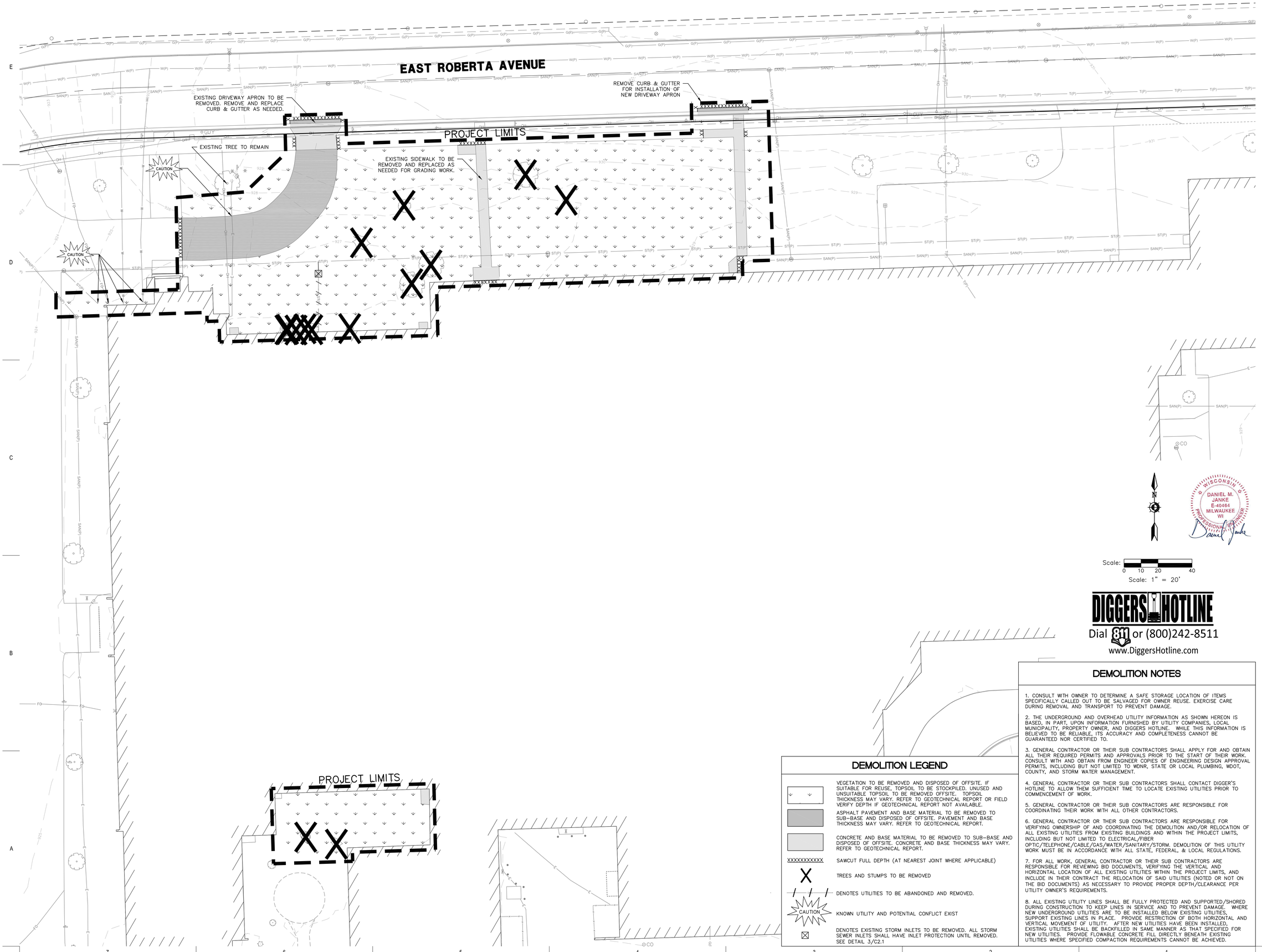
SCALE: 1" = 80'
0 20 40 60 80 100 160
IF NOT ONE INCH ADJUST SCALE ACCORDINGLY

SEAL:
WISCONSIN BRIAN SANDBERG S-2500 PORT WASHINGTON Wisconsin LAND SURVEYOR
we listen. we innovate. we turn your vision into reality.

SHEET:
PLAT OF SURVEY WITH TOPOGRAPHY

DRAWN BY:	ITM
CHECKED BY:	BES
APPROVED BY:	
PROJECT NUMBER:	19.0088.01

SHEET NUMBER:
C1.0



Scale: 0 10 20 40

Scale: 1" = 20'

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DEMOLITION LEGEND

	VEGETATION TO BE REMOVED AND DISPOSED OF OFFSITE. IF SUITABLE FOR REUSE, TOPSOIL TO BE STOCKPILED. UNUSED AND UNSUITABLE TOPSOIL TO BE REMOVED OFFSITE. TOPSOIL THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT OR FIELD VERIFY DEPTH IF GEOTECHNICAL REPORT NOT AVAILABLE.
	ASPHALT PAVEMENT AND BASE MATERIAL TO BE REMOVED TO SUB-BASE AND DISPOSED OF OFFSITE. PAVEMENT AND BASE THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT.
	CONCRETE AND BASE MATERIAL TO BE REMOVED TO SUB-BASE AND DISPOSED OF OFFSITE. CONCRETE AND BASE THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT.
XXXXXXXXXX	SAWCUT FULL DEPTH (AT NEAREST JOINT WHERE APPLICABLE)
X	TREES AND STUMPS TO BE REMOVED
	DENOTES UTILITIES TO BE ABANDONED AND REMOVED.
CAUTION	KNOWN UTILITY AND POTENTIAL CONFLICT EXIST
	DENOTES EXISTING STORM INLETS TO BE REMOVED. ALL STORM SEWER INLETS SHALL HAVE INLET PROTECTION UNTIL REMOVED. SEE DETAIL 3/C2.1

DEMOLITION NOTES

1. CONSULT WITH OWNER TO DETERMINE A SAFE STORAGE LOCATION OF ITEMS SPECIFICALLY CALLED OUT TO BE SALVAGED FOR OWNER REUSE. EXERCISE CARE DURING REMOVAL AND TRANSPORT TO PREVENT DAMAGE.

2. THE UNDERGROUND AND OVERHEAD UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITY, PROPERTY OWNER, AND DIGGERS HOTLINE. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.

3. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL APPLY FOR AND OBTAIN ALL THEIR REQUIRED PERMITS AND APPROVALS PRIOR TO THE START OF THEIR WORK. CONSULT WITH AND OBTAIN FROM ENGINEER COPIES OF ENGINEERING DESIGN APPROVAL PERMITS, INCLUDING BUT NOT LIMITED TO WDNR, STATE OR LOCAL PLUMBING, WDOT, COUNTY, AND STORM WATER MANAGEMENT.

4. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.

5. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.

6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND/OR RELOCATION OF ALL EXISTING UTILITIES FROM EXISTING BUILDINGS AND WITHIN THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO ELECTRICAL/FIBER OPTIC/TELEPHONE/CABLE/GAS/WATER/SANITARY/STORM. DEMOLITION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, & LOCAL REGULATIONS.

7. FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES (NOTED OR NOT ON THE BID DOCUMENTS) AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.

8. ALL EXISTING UTILITY LINES SHALL BE FULLY PROTECTED AND SUPPORTED/SHORED DURING CONSTRUCTION TO KEEP LINES IN SERVICE AND TO PREVENT DAMAGE. WHERE NEW UNDERGROUND UTILITIES ARE TO BE INSTALLED BELOW EXISTING UTILITIES, SUPPORT EXISTING LINES IN PLACE. PROVIDE RESTRICTION OF BOTH HORIZONTAL AND VERTICAL MOVEMENT OF UTILITY. AFTER NEW UTILITIES HAVE BEEN INSTALLED, EXISTING UTILITIES SHALL BE BACKFILLED IN SAME MANNER AS THAT SPECIFIED FOR NEW UTILITIES. PROVIDE FLOWABLE CONCRETE FILL DIRECTLY BENEATH EXISTING UTILITIES WHERE SPECIFIED COMPACTION REQUIREMENTS CANNOT BE ACHIEVED.

bray architects

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MILWAUKEE
WI
PROFESSIONAL ENGINEER

Project Title:
Additions and Remodeling to:
Waukesha South High School
School District of Waukesha
401 E Roberta Ave, Waukesha, WI 53186

REVISIONS:

	DATE	DESCRIPTION

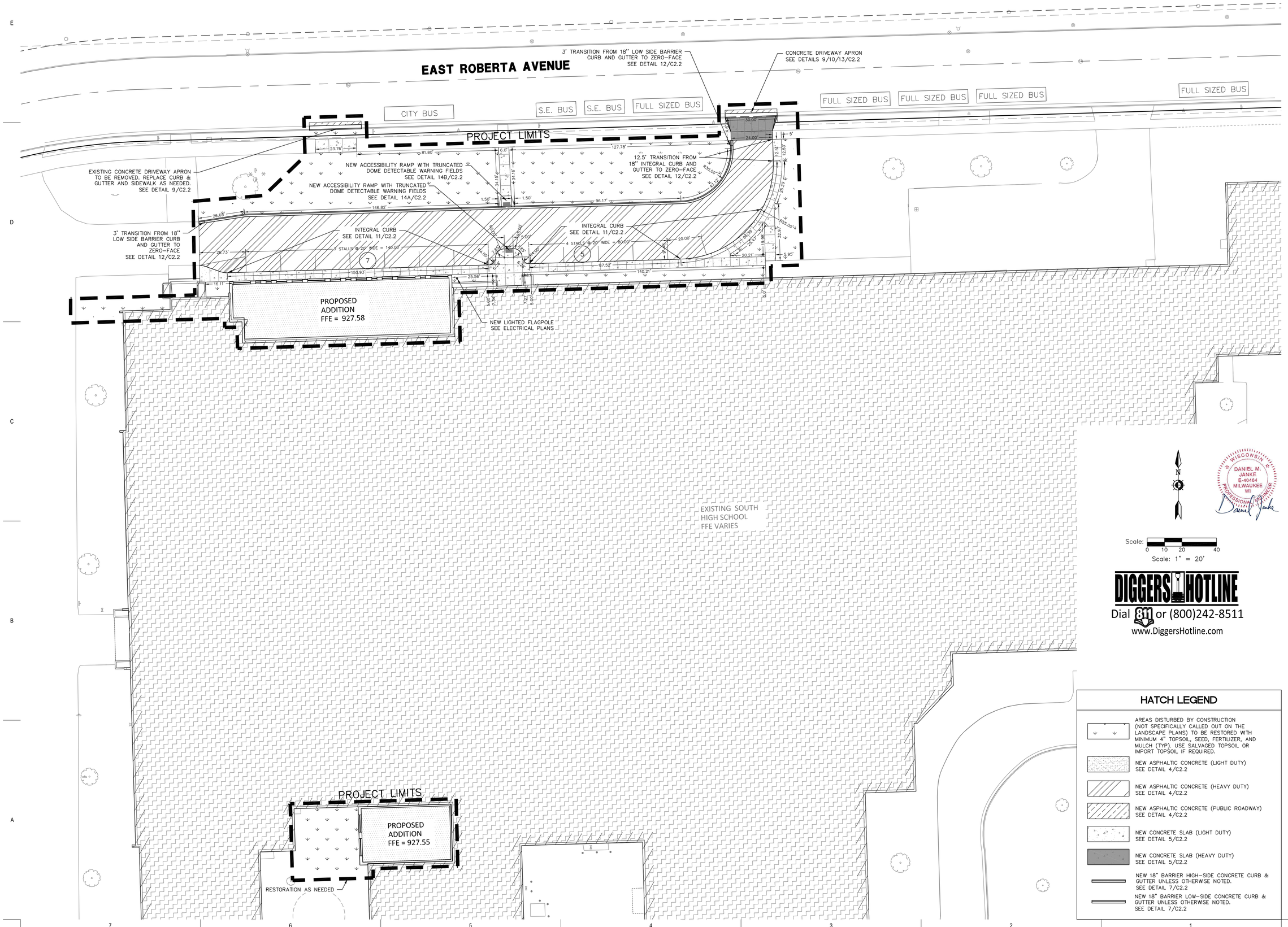
NOT FOR CONSTRUCTION

Project Number:
3353

Issued For:
PLAN COMMISSION REVIEW
11/11/2019

Sheet Title:
SITE DEMOLITION PLAN

Sheet Number:
C1.1



Scale: 0 10 20 40

Scale: 1" = 20'

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HATCH LEGEND

- AREAS DISTURBED BY CONSTRUCTION (NOT SPECIFICALLY CALLED OUT ON THE LANDSCAPE PLANS) TO BE RESTORED WITH MINIMUM 4" TOPSOIL, SEED, FERTILIZER, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.
- NEW ASPHALTIC CONCRETE (LIGHT DUTY) SEE DETAIL 4/C2.2
- NEW ASPHALTIC CONCRETE (HEAVY DUTY) SEE DETAIL 4/C2.2
- NEW ASPHALTIC CONCRETE (PUBLIC ROADWAY) SEE DETAIL 4/C2.2
- NEW CONCRETE SLAB (LIGHT DUTY) SEE DETAIL 5/C2.2
- NEW CONCRETE SLAB (HEAVY DUTY) SEE DETAIL 5/C2.2
- NEW 18" BARRIER HIGH-SIDE CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED. SEE DETAIL 7/C2.2
- NEW 18" BARRIER LOW-SIDE CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED. SEE DETAIL 7/C2.2

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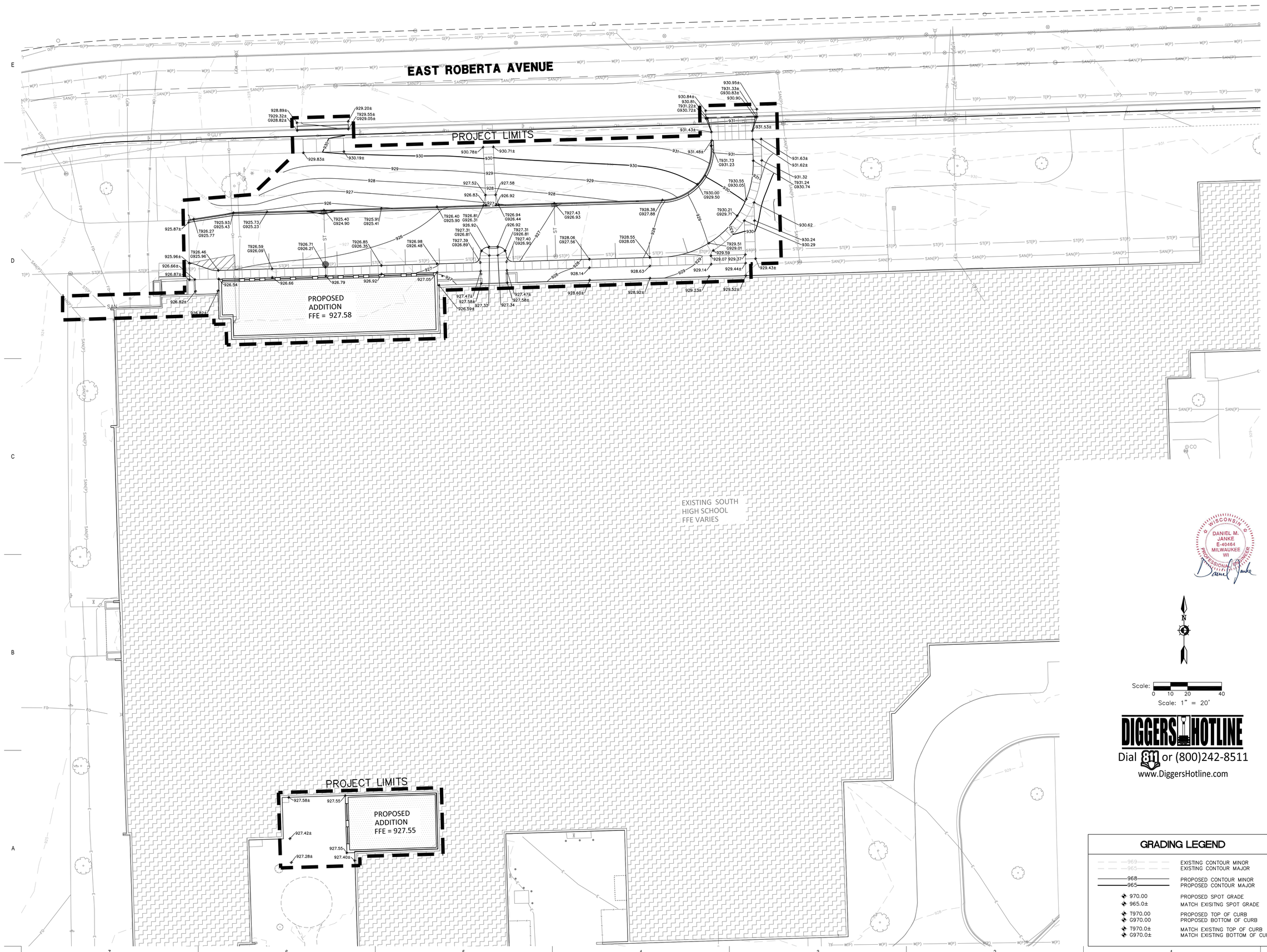
Issued For: **PLAN COMMISSION REVIEW** 11/11/2019

Sheet Title: **SITE LAYOUT PLAN**

Sheet Number: **C1.2**



GRADING LEGEND

969 / 965	EXISTING CONTOUR MINOR / EXISTING CONTOUR MAJOR
968 / 965	PROPOSED CONTOUR MINOR / PROPOSED CONTOUR MAJOR
970.00	PROPOSED SPOT GRADE
965.0±	MATCH EXISITNG SPOT GRADE
T970.00 / G970.00	PROPOSED TOP OF CURB / PROPOSED BOTTOM OF CURB
T970.0± / G970.0±	MATCH EXISTING TOP OF CURB / MATCH EXISTING BOTTOM OF CURB

Scale: 0 10 20 40

Scale: 1" = 20'

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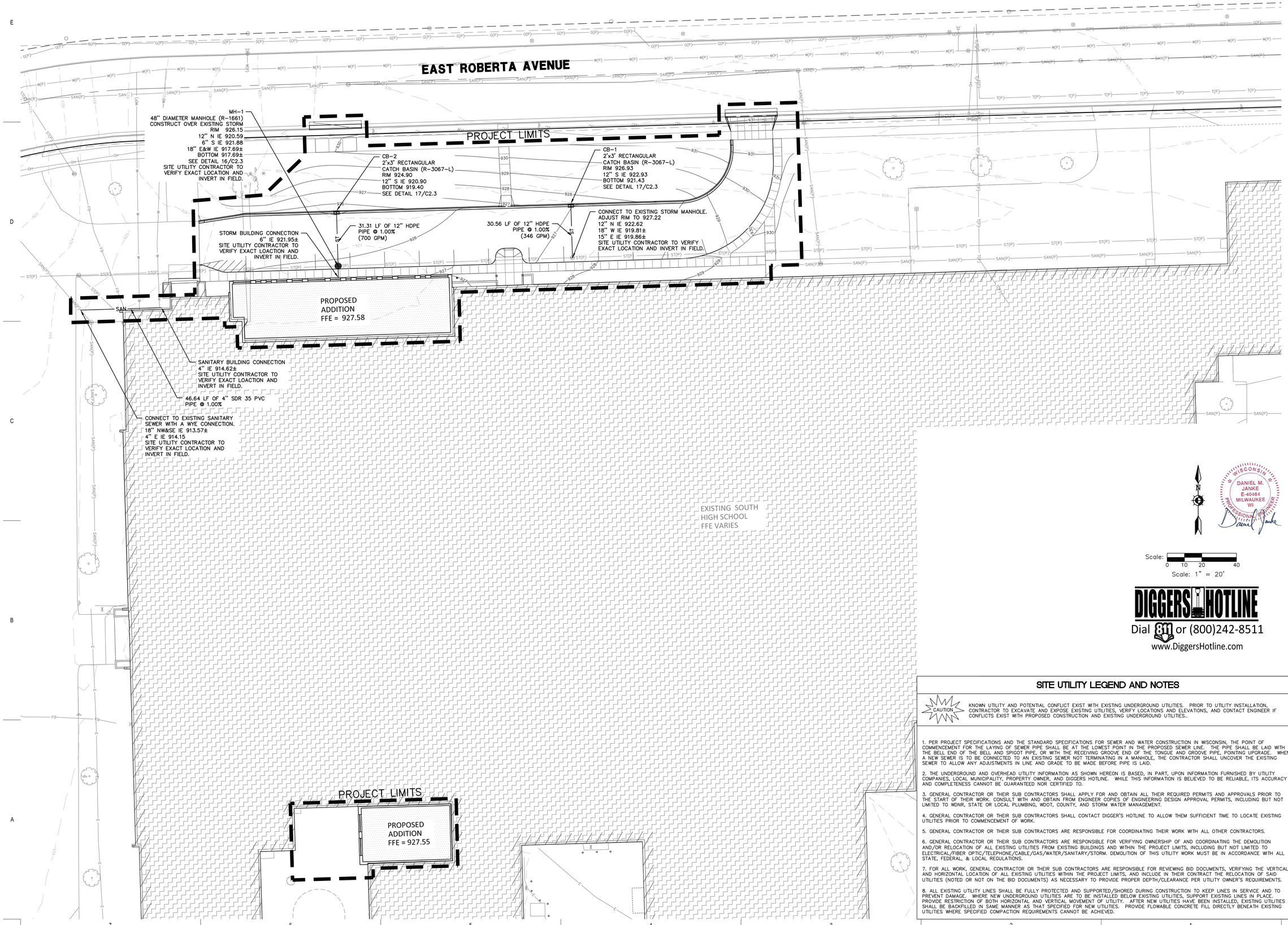
Project Number: **3353**

Issued For: **PLAN COMMISSION REVIEW** 11/11/2019

Sheet Title: **SITE GRADING PLAN**

Sheet Number: **C1.3**



Scale: 0 10 20 40

Scale: 1" = 20'

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SITE UTILITY LEGEND AND NOTES

CAUTION

KNOWN UTILITY AND POTENTIAL CONFLICT EXIST WITH EXISTING UNDERGROUND UTILITIES. PRIOR TO UTILITY INSTALLATION, CONTRACTOR TO EXCAVATE AND EXPOSE EXISTING UTILITIES, VERIFY LOCATIONS AND ELEVATIONS, AND CONTACT ENGINEER IF CONFLICTS EXIST WITH PROPOSED CONSTRUCTION AND EXISTING UNDERGROUND UTILITIES..

1. PER PROJECT SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, THE POINT OF COMMENCEMENT FOR THE LAYING OF SEWER PIPE SHALL BE AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. THE PIPE SHALL BE LAID WITH THE BELL END OF THE BELL AND SPIGOT PIPE, OR WITH THE RECEIVING GROOVE END OF THE TONGUE AND GROOVE PIPE, POINTING UPGRADE. WHEN A NEW SEWER IS TO BE CONNECTED TO AN EXISTING SEWER NOT TERMINATING IN A MANHOLE, THE CONTRACTOR SHALL UNCOVER THE EXISTING SEWER TO ALLOW ANY ADJUSTMENTS IN LINE AND GRADE TO BE MADE BEFORE PIPE IS LAID.

2. THE UNDERGROUND AND OVERHEAD UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITY, PROPERTY OWNER, AND DIGGERS HOTLINE. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.

3. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL APPLY FOR AND OBTAIN ALL THEIR REQUIRED PERMITS AND APPROVALS PRIOR TO THE START OF THEIR WORK. CONSULT WITH AND OBTAIN FROM ENGINEER COPIES OF ENGINEERING DESIGN APPROVAL PERMITS, INCLUDING BUT NOT LIMITED TO WDNR, STATE OR LOCAL PLUMBING, WDOT, COUNTY, AND STORM WATER MANAGEMENT.

4. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.

5. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.

6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND/OR RELOCATION OF ALL EXISTING UTILITIES FROM EXISTING BUILDINGS AND WITHIN THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO ELECTRICAL/FIBER OPTIC/TELEPHONE/CABLE/GAS/WATER/SANITARY/STORM. DEMOLITION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, & LOCAL REGULATIONS.

7. FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES (NOTED OR NOT ON THE BID DOCUMENTS) AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.

8. ALL EXISTING UTILITY LINES SHALL BE FULLY PROTECTED AND SUPPORTED/SHORED DURING CONSTRUCTION TO KEEP LINES IN SERVICE AND TO PREVENT DAMAGE. WHERE NEW UNDERGROUND UTILITIES ARE TO BE INSTALLED BELOW EXISTING UTILITIES, SUPPORT EXISTING LINES IN PLACE. PROVIDE RESTRICTION OF BOTH HORIZONTAL AND VERTICAL MOVEMENT OF UTILITY. AFTER NEW UTILITIES HAVE BEEN INSTALLED, EXISTING UTILITIES SHALL BE BACKFILLED IN SAME MANNER AS THAT SPECIFIED FOR NEW UTILITIES. PROVIDE FLOWABLE CONCRETE FILL DIRECTLY BENEATH EXISTING UTILITIES WHERE SPECIFIED COMPACTION REQUIREMENTS CANNOT BE ACHIEVED.

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Project Title:
Additions and Remodeling to:
Waukesha South High School
School District of Waukesha
401 E Roberta Ave, Waukesha, WI 53186

REVISIONS:

	DATE	DESCRIPTION

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Project Number:
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SITE UTILITY PLAN

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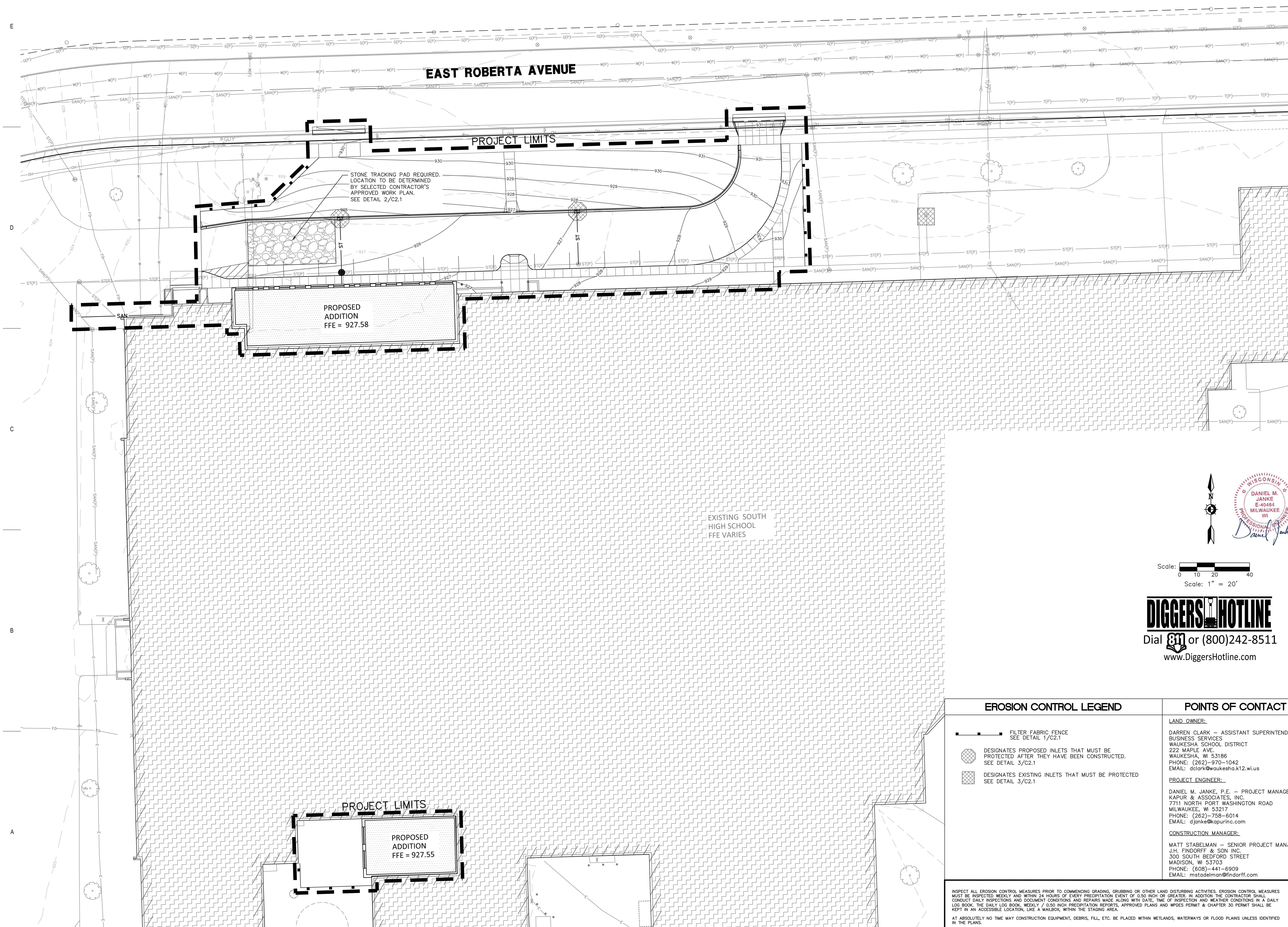
C1.4



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DANIEL M. JANKE E-40464 MILWAUKEE WI — WISCONSIN PROFESSIONAL ENGINEER

EROSION CONTROL LEGEND

FILTER FABRIC FENCE
SEE DETAIL 1/C2.1

DESIGNATES PROPOSED INLETS THAT MUST BE PROTECTED AFTER THEY HAVE BEEN CONSTRUCTED. SEE DETAIL 3/C2.1

DESIGNATES EXISTING INLETS THAT MUST BE PROTECTED SEE DETAIL 3/C2.1

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INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS AND WPDES PERMIT & CHAPTER 30 PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOOD PLAINS UNLESS IDENTIFIED IN THE PLANS.

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SITE EROSION CONTROL PLAN

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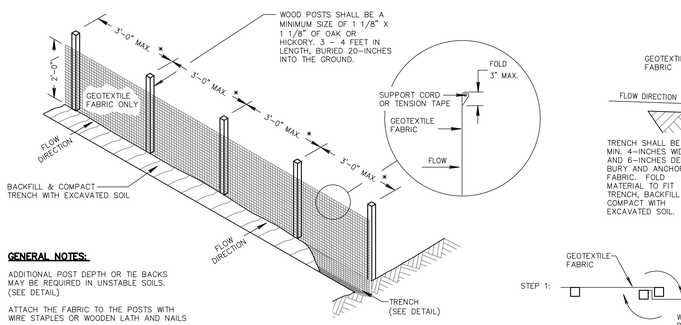

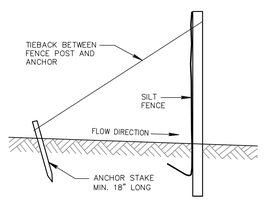

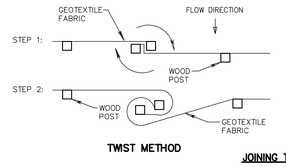

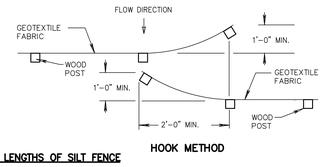

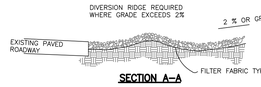

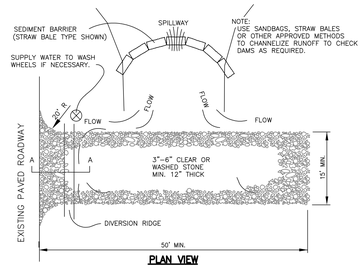

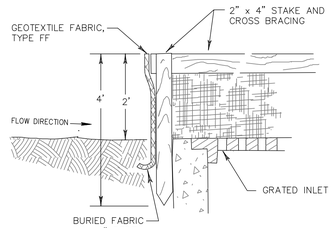

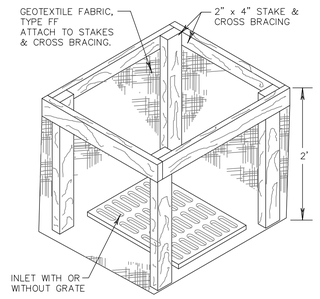

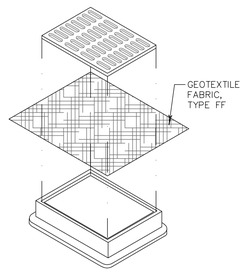

EROSION CONTROL MEASURES

1. CONTRACTOR TO INSTALL AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THIS PLAN AND PER THE LATEST WDNR TECHNICAL STANDARDS. TECHNICAL STANDARDS MAY BE VIEWED ONLINE AT:
   http://dnr.wi.gov/topic/stormwater/standards/const_standards.html
2. INLETS AND CATCH BASINS SHALL BE PROTECTED WITH INLET FILTERS THAT ARE PHASED IN WITH CONSTRUCTION TO REDUCE SEDIMENT FROM ENTERING THESE AREAS PER WDNR TECHNICAL STANDARD 1060 AS FOLLOWS:
   - A. ALL FABRIC BARRIERS SELECTED FOR INLET/CATCH BASIN PROTECTION DEVICES SHALL BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION, GEOTEXTILE FABRIC, TYPE FF IN THE CURRENT EDITION OF THE WDOT PRODUCT ACCEPTABILITY LIST, TO OBTAIN THE PAL, PLEASE REFER TO THIS WEBSITE: http://www.dot.wisconsin.gov/business/engrserv/pal.htm
   - B. INLET PROTECTION SHALL BE AT A MINIMUM INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF ½ INCH OR GREATER DURING A 24-HOUR PERIOD.
   - C. PLACEMENT OF SPOIL MATERIAL, DEBRIS, SOILS, ETC. ON TOP OF INLETS/CATCH BASINS, EVEN IF TEMPORARY, IS STRICTLY DISCOURAGED AND PROHIBITED.
   - D. SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 1/3 TO ½ THE DESIGN DEPTH OF THE DEVICE, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING PER MANUFACTURER'S SPECIFICATIONS. ALL SEDIMENT COLLECTED SHALL BE PROPERLY DISPOSED OF TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.
   - E. DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLETS/CATCH BASINS AND IMPEDE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET/CATCH BASIN SHALL BE REMOVED AND PROPERLY DISPOSED OF PER NOTE D ABOVE.
   - F. INLET FILTERS MAY BE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF CONSTRUCTION, HAULING OR MOVEMENT OF CONSTRUCTION EQUIPMENT THROUGHOUT THE SITE, AND ONCE THE SITE IS ADEQUATELY STABILIZED, UNLESS AS OTHERWISE NOTIFIED BY THE WDNR.
3. A TRACKING PAD SHALL BE INSTALLED AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO REDUCE OFF-SITE SEDIMENTATION BY ELIMINATING THE TRACKING OF SEDIMENT FROM THE SITE PER WDNR TECHNICAL STANDARD 1057 AS FOLLOWS:
   - A. A WISDOT TYPE R GEOTEXTILE FABRIC SHALL BE USED TO PREVENT MIGRATION OF UNDERLYING SOIL INTO THE STONE.
   - B. AGGREGATE USED FOR TRACKING PADS SHALL BE 3 TO 6 INCH CLEAR OR WASHED STONE. ALL MATERIAL TO BE RETAINED BY 3 INCH SIEVE.
   - C. THE AGGREGATE SHALL BE PLACED IN A LAYER ON TOP OF THE TYPE R GEOTEXTILE FABRIC AT LEAST 12 INCHES THICK.
   - D. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT AND BE AT LEAST 50 FEET LONG.
   - E. VEHICLES TRAVELING ACROSS THE TRACKING PAD SHALL MAINTAIN A SLOW CONSTANT SPEED.
   - F. ANY SEDIMENT OR ROCK ACCUMULATION ONTO LOCAL ROADWAYS SHALL BE REMOVED BY STREET CLEANING, NOT FLUSHING BEFORE THE END OF EACH WORKING DAY.
   - G. THE TRACKING PAD SHALL, AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF ½ INCH OF RAIN OR MORE DURING A 24-HOUR PERIOD.
   - H. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.
   - I. A MINIMUM 12-INCH THICK PAD SHALL BE MAINTAINED.
4. THE CONSTRUCTION SITE PERIMETER AND TOPSOIL STOCKPILE AREA SHALL BE PROTECTED WITH SILT FENCE AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO INTERCEPT AND REDUCE THE FLOW OF SEDIMENT-LADEN SHEET FLOW RUNOFF FROM THE CONSTRUCTION SITE PER WDNR TECHNICAL STANDARD 1056 AS FOLLOWS:
   - A. SILT FENCE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE AS SHOWN ON THE PLAN SHEET.
   - B. INSTALLED SILT FENCE SHALL BE A MINIMUM 14 INCHES HIGH AND SHALL NOT EXCEED 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.
   - C. SILT FENCE SHALL BE SUPPORTED BY EITHER STEEL OR WOOD SUPPORT POSTS.
   - D. THE MAXIMUM SPACING OF POSTS FOR NONWOVEN SILT FENCE SHALL BE 3 FEET OR FOR WOVEN FABRIC 8 FEET.
   - E. SILT FENCE SHALL HAVE A SUPPORT CORD AT THE TOP OF THE FENCE.
   - F. WHERE JOINTS ARE NEEDED, EACH END OF THE FABRIC SHALL BE SECURELY FASTENED TO A POST. THE POSTS SHALL BE WRAPPED AROUND EACH OTHER TO PRODUCE A STABLE AND SECURE JOINT OR SHALL BE OVERLAPPED THE DISTANCE BETWEEN TWO POSTS.
   - G. A MINIMUM OF 20 INCHES OF THE POSTS SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.
   - H. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4 INCH WIDE BY 6 INCH DEEP TRENCH, OR 6 INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. THE TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED ANY WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
   - I. ON THE TERMINAL ENDS OF THE SILT FENCE THE FABRIC SHALL BE WRAPPED AROUND THE POST SUCH THAT THE STAPLES ARE NOT VISIBLE.
   - J. GEOTEXTILE FABRIC SPECIFICATIONS SHALL MEET VALUES ESTABLISHED IN TECHNICAL STANDARD 1056.
   - K. SILT FENCE SHALL BE REMOVED ONCE THE SITE IS ADEQUATELY STABILIZED.
   - L. WHEN PLACING SILT FENCE NEAR TREES, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE ROOT SYSTEM BY AVOIDING COMPACTION AND ROOT CUTTING WITHIN 1.5 FEET MULTIPLIED BY THE INCH DIAMETER OF THE TREE.
   - M. THE CONTRACTOR MAY FURTHER STRENGTHEN THE SILT FENCE BY USING HAY BALES ON THE DOWN SLOPE SIDE AS NEEDED.
   - N. SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES ½ INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD.
   - O. DAMAGED OR DECOMPOSED SILT FENCE, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.
   - P. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH ½ THE HEIGHT OF THE FENCE TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.
5. SEEDING AND MULCHING TECHNIQUES SHALL BE USED ON AREAS OF EXPOSED SOIL WHERE THE ESTABLISHMENT OF VEGETATION IS DESIRED. TEMPORARY SEEDING APPLIES TO DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND-DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 CALENDAR DAYS, REQUIRING VEGETATIVE COVER FOR LESS THAN ONE YEAR. SEED AND MULCH SHALL BE UTILIZED THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH TEMPORARY VEGETATION TO HELP REDUCE EROSION PER WDNR TECHNICAL STANDARDS 1059 AND 1058 RESPECTIVELY AS FOLLOWS:
   - A. TEMPORARY SEEDING REQUIRES A SEEDBED OF LOOSE SOIL TO A MINIMUM DEPTH OF 2 INCHES.
   - B. FERTILIZER APPLICATION IS NOT GENERALLY REQUIRED FOR TEMPORARY SEEDING. HOWEVER, ANY APPLICATION OF FERTILIZER OR LIME SHALL BE BASED ON SOIL TESTING.
   - C. THE SOIL SHALL HAVE A PH RANGE OF 5.5 TO 8.0.
   - D. ALL SEED SHALL CONFORM TO THE REQUIREMENTS OF THE WISCONSIN STATE STATUTES AND OF THE ADMINISTRATIVE CODE CHAPTER ATCP 20.01 REGARDING NOXIOUS WEED SEED CONTENT AND LABELING.
   - E. SEED SHALL NOT BE USED LATER THAN ONE YEAR AFTER THE TEST DATE ON THE LABEL.
   - F. IN THE SUMMER-SPRING, CONTRACTOR SHALL USE OATS APPLIED AT 131 LBS/ACRE FOR TEMPORARY SEEDING PURPOSES. IN THE FALL THE CONTRACTOR SHALL USE ANNUAL RYEGRASS APPLIED AT 80 LBS/ACRE OR WINTER WHEAT APPLIED AT 131 LBS/ACRE. THE CONTRACTOR SHALL USE STRAW MULCH APPLIED AT 1.5 TONS/ACRE. DORMANT SEED SHALL BE USED WHEN SOIL TEMPERATURE IS CONSISTENTLY BELOW 53 DEGREES FAHRENHEIT (TYPICALLY NOV. 1 UNTIL SNOW COVER ANNUALLY). NEVER PLACE SEED ON TOP OF SNOW. IF COVER IS NEEDED AFTER SNOW FALL, CONTRACTOR MAY CHOOSE TO USE A DRY, NONTOXIC TYPE B SOIL STABILIZER PER MANUFACTURER'S SPECIFICATIONS AS REQUIRED BY THE WDNR.
   - G. SEEDING SHALL NOT TAKE PLACE WHEN THE SOIL IS TOO WET.
   - H. CONTRACTOR MAY CONSIDER WATERING TO HELP ESTABLISH THE SEED. WATER APPLICATION RATES SHALL BE CONTROLLED TO HELP PREVENT RUNOFF AND EROSION.
   - I. DURING CONSTRUCTION, AREAS THAT HAVE BEEN SEEDED AND MULCHED SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES ½ INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD. INSPECT WEEKLY DURING THE GROWING SEASON UNTIL VEGETATION IS DENSELY ESTABLISHED OR THE SOD IS LAID. REPAIR AND RESEED AREAS THAT HAVE EROSION DAMAGE AS NECESSARY.
   - J. CONTRACTOR IS TO LIMIT VEHICLE TRAFFIC AND OTHER FORMS OF COMPACTION IN AREAS THAT ARE SEEDED AS MUCH AS POSSIBLE. RE-SEED DRIVEN OVER AREAS AS NEEDED.
   - K. MULCH SHOULD BE PLACED WITHIN 24 HOURS OF SEEDING.
   - L. MULCHING OPERATIONS SHALL NOT TAKE PLACE DURING PERIODS OF EXCESSIVELY HIGH WINDS THAT WOULD PRECLUDE THE PROPER PLACEMENT OF MULCH.
   - M. MULCH THAT IS DISPLACED SHALL BE REAPPLIED AND PROPERLY ANCHORED. MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION TO SITE CONDITIONS.
   - N. WHEN CHANNEL EROSION MAT IS USED WITHIN CONSTRUCTION SITE DIVERSION AREAS, TECHNICAL STANDARDS 1053 AND 1066 SHALL BE FOLLOWED.
   - O. WHEN NON-CHANNEL EROSION MAT IS USED TECHNICAL STANDARD 1052 SHALL BE FOLLOWED.
   - P. DEPENDING ON DURATION OF CONSTRUCTION, THE CONTRACTOR MAY NEED TO RE-SEED AND RE-STABILIZE THE TOPSOIL STOCKPILE AS NECESSARY TO DISCOURAGE SEDIMENT AND EROSION.
6. A COPY OF EROSION CONTROL INSPECTION REPORTS AND THE APPROVED EROSION CONTROL PLANS SHALL BE KEPT ON SITE.
7. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL PRACTICES BY THE END OF EACH WORKDAY.
8. LOCAL ROADS SHALL BE CLEAN BY THE END OF EACH WORKDAY. CONTRACTOR SHALL HAVE LOCAL ROADS SWEPT WHERE SEDIMENT ACCUMULATES.

EROSION CONTROL OPERATION SEQUENCE + SCHEDULE

AFTER BIDS ARE RECEIVED AND A MASS GRADING CONTRACTOR IS SELECTED, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH ALL RELEVANT PARTIES IN ATTENDANCE.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL SILT FENCES, SEEDING, EROSION MATTING, AND OTHER EROSION CONTROL MEASURES. GENERAL CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING, OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF ½ INCH OR GREATER. IN ADDITION, THE ACTIVE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION, AND WEATHER CONDITIONS IN A DAILY LOG BOOK.

ALL REGULATORY PERMITS, ALL PROJECT PLANS, AND INSPECTION LOGS SHALL BE KEPT ON SITE IN AN ACCESSIBLE LOCATION, SUCH AS A MAILBOX, AVAILABLE TO REGULATORY AGENCIES UPON REQUEST.

CONTRACTORS ARE TO MAINTAIN THE CONSTRUCTION SITE IN A NEAT AND TIDY MANNER FOR THE DURATION OF THE PROJECT.

THE TIMING AND SEQUENCE OF CONSTRUCTION IS SCHEDULED AS FOLLOWS:

1. OBTAIN PLAN APPROVAL FROM ALL RELEVANT GOVERNMENT AGENCIES AND MUNICIPALITIES, AND ALL APPLICABLE PERMITS, INCLUDING EROSION CONTROL PERMIT.
2. CONSTRUCTION IS SCHEDULED TO BEGIN IN 2020, DEPENDING ON WEATHER & GROUND CONDITIONS.
3. A GRAVEL TRACKING PAD UNDERLAIN WITH WISDOT TYPE R GEOTEXTILE FABRIC, ALONG WITH A TEMPORARY CULVERT IF NECESSARY, SHALL BE INSTALLED AS SHOWN ON THE PLANS. RE-GRADE EXISTING ROADWAY DITCH AS NECESSARY. IF INSTALLED, THE TEMPORARY CULVERT SHALL BE REMOVED AT END OF CONSTRUCTION ACTIVITIES.
4. SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS, AND INSPECTED PRIOR TO COMMENCING OF ANY LAND DISTURBING ACTIVITIES PER PROJECT PLANS AND DETAILS. SEDIMENT DEPOSITS WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN THEY REACH A DEPTH OF 1/2 FENCE HEIGHT.
5. IF INDICATED ON PLANS, INSTALL CONSTRUCTION FENCE AND ANY TEMPORARY TRAFFIC CONTROLS.
6. IMMEDIATELY INSTALL ALL EROSION CONTROL MEASURES PRIOR TO LAND DISTURBANCE. SITE DEMOLITION OF PAVEMENT, ETC. WILL OCCUR AFTER EROSION CONTROL MEASURES ARE IN PLACE.
7. CONSTRUCTION OF THE BUILDING, STARTING WITH THE FOUNDATION, WILL BEGIN IMMEDIATELY AFTER THE SITE DEMOLITION IS COMPLETE IN THE BUILDING PAD AREA.
8. TOPSOIL STRIPPING AND ROUGH GRADING WILL FOLLOW. TOPSOIL STOCKPILES WILL BE LOCATED AS SHOWN ON THE PLANS. STOCKPILES WILL BE USED FOR FINAL LANDSCAPING. REMAINING STOCKPILES WILL BE REMOVED FROM THE SITE.
9. UTILITY INSTALLATION WILL OCCUR NEXT AND CONTINUE UNTIL ALL THE UTILITIES ARE INSTALLED. RESTORATION OF CURB AND GUTTER WILL FOLLOW.
10. AFTER ROUGH GRADING IS COMPLETE IN AREAS OUTSIDE OF HARD SURFACE AREAS SUCH AS PROPOSED ROADWAYS, PARKING LOTS, AND BUILDINGS, THE TOPSOIL WILL BE REAPPLIED AND THE LANDSCAPE CONTRACTOR WILL COMPLETE SEEDING/SODDING/FERTILIZING/MULCHING AND INSTALL EROSION MATTING AS PER APPROVED PLANS AND SPECIFICATIONS.
11. FINAL SITE STABILIZATION IS ANTICIPATED FOLLOWING THE COMPLETION OF GRADING ACTIVITIES. IF SITE STABILIZATION CANNOT BE COMPLETED BY OCTOBER 1, THEN THE USE OF ANIONIC POLYACRYLAMIDE CONFORMING TO WDNR TECHNICAL STANDARD 1050 SHALL BE USED. IN ADDITION, ALL SLOPES OF GREATER THAN 20% MUST ADHERE TO THE SCHEDULE IN TABLE 1 BELOW.
12. AFTER ALL TOPSOIL HAS BEEN REAPPLIED AND STABILIZATION IS UNDERWAY, ROADWAY, PARKING LOT, AND SIDEWALK BASE MATERIAL WILL BE APPLIED PER PROJECT SPECIFICATIONS.
13. THE GENERAL CONTRACTOR WILL REQUEST A FINAL INSPECTION BY THE DEPARTMENT OF ADMINISTRATION (DOA). UPON APPROVAL, ALL SILT FENCES, INLET FILTER PROTECTION, AND TRIANGULAR SILT DIKES SHALL BE REMOVED, AND ACCUMULATED SEDIMENT IN THE SEDIMENT BASIN/STORM WATER POND SHALL BE DREDGED AND PROPERLY DISPOSED OF. IN ADDITION, THE CONTRACTOR MUST ENSURE THAT THE STORM WATER POND IS RETURNED TO THE SLOPES AND GRADES SHOWN ON THE PROJECT PLANS AND DETAILS.
15. IF REQUIRED, FINAL "AS-BUILT" SURVEYS ARE TO BE CONDUCTED BY THE OWNER AND FINAL DOCUMENTS FORWARDED TO THE DOA.
16. BARE SOIL LEFT UNDISTURBED FOR 14 CALENDAR DAYS MUST BE TEMPORARILY STABILIZED PER WDNR TECHNICAL STANDARD 1059, OR TEMPORARY GRADING PRACTICES PER WDNR TECHNICAL STANDARD 1067 MAY BE IMPLEMENTED. HOWEVER BY OCTOBER 1, THE SITE SHALL BE STABILIZED PER NOTE 11 ABOVE.
17. WE DO NOT ANTICIPATE THE NEED FOR WATERING WITH THIS CONSTRUCTION SCHEDULE, HOWEVER, IF ADEQUATE RAIN IS NOT EXPERIENCED WITHIN ONE WEEK AFTER INITIAL SEED GERMINATION AT ANY POINT DURING THE CONSTRUCTION PROCESS, WATER SHALL BE TRUCKED IN AND APPLIED ONCE PER WEEK.

IF CONSTRUCTION SCHEDULES SHOULD CHANGE SIGNIFICANTLY, THIS PLAN NARRATIVE WILL BE UPDATED AND RESUBMITTED BY THE GENERAL CONTRACTOR TO THE DEPARTMENT OF ADMINISTRATION AND WDNR.

TABLE 1 - MAXIMUM PERIOD OF BARE SOIL FOR SLOPES GREATER THAN 20%

SLOPE AREA DRAINS TO SEDIMENT BASIN?	LAND DISTURBANCE BETWEEN SEPT. 16 AND MAY 1	LAND DISTURBANCE BETWEEN MAY 2 AND SEPT. 15
YES	90 DAYS	90 DAYS
NO	60 DAYS	30 DAYS

TABLE FROM WI DNR GUIDANCE DOC # 3800-2015-06

DEWATERING PLAN

TO FACILITATE CONSTRUCTION AT THE PROJECT SITE, DEWATERING MAY TAKE PLACE BY THE SELECTED CONTRACTOR. CONTRACTOR TO FOLLOW THESE INSTRUCTIONS WHILE PERFORMING DEWATERING ACTIVITIES ON-SITE. IF DEWATERING IS TO TAKE PLACE AT THE SITE, IT WILL OCCUR BETWEEN STEPS 5 AND 13 OF THE EROSION CONTROL OPERATION SEQUENCE.

NOTE: THESE INSTRUCTIONS DO NOT APPLY TO WATER BEING DISCHARGED DIRECTLY TO GROUNDWATER OR KARST FEATURES OR WELL DEWATERING SYSTEMS. CONTRACTOR SHALL COORDINATE ACCORDINGLY FOR OTHER DEWATERING ACTIVITIES AS DEEMED NECESSARY WITH THE WDNR.

1. THE CONTRACTOR SHALL ENSURE THAT THE DEWATERING PRACTICES CARRIED OUT MEET OR EXCEED WNDR TECHNICAL STANDARD NUMBER 1061.
2. A PAN OR OTHER CONTAINMENT DEVICE SHALL BE PLACED UNDERNEATH THE PUMP TO CAPTURE ANY SPILLS. OILS, GASOLINE, ETC. SHALL NOT BE STORED WITHIN WETLANDS, NEAR THE STORMWATER POND, OR OTHER ON-SITE WATER AREAS.
3. A TYPE 2 GEOTEXTILE BAG THAT IS NO SMALLER THAN 100 SQUARE FEET; HAS A MAXIMUM APPARENT OPENING SIZE OF 0.212 mm; HAS A GRAB TENSILE STRENGTH OF 300 LBS; MULLEN BURST OF 580 PSI; PERMEABILITY OF 0.2 CM/SEC; FABRIC WEIGHT OF 12 OZ SHALL BE USED. THE GEOTEXTILE BAG AREA AND DOWNGRADE FLOW AREA SHALL CONSIST OF VEGETATED AND UNDISTURBED SOILS.
4. POLYMER MEETING WDNR TECHNICAL STANDARD 1051 MAY BE USED IN COMBINATION WITH THE DEWATERING BAG IF THE DEWATERING BAG IS NOT DOING AN ADEQUATE JOB ALONE OF FILTERING SEDIMENTS. THE CONTRACTOR SHALL SUPPLY TOXICITY TESTING DATA TO THE WDNR BEFORE USE ON-SITE FOR WDNR APPROVAL. POLYMER SHALL NOT BE DIRECTLY APPLIED TO SURFACE WATER. CONTRACTOR SHALL OBTAIN THE MATERIAL SAFETY DATA SHEETS (MSDS) FOR THE SELECTED POLYMER, MANUFACTURER'S INFORMATION AND WDNR USE RESTRICTIONS (SEE TECHNICAL STANDARD 1051) AND KEEP ALL THIS INFORMATION ON-SITE. CONTRACTOR SHALL ADHERE TO MANUFACTURER AND WDNR'S APPLICATION RATES FOR THE POLYMER, WITH THE WDNR'S RATE TAKING PRECEDENCE. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT THE POLYMER IS NOT SPILLED. SPILL KITS SHALL BE KEPT ON-SITE; THE MANUFACTURER'S RECOMMENDED CLEANUP PROCEDURES SHALL BE FOLLOWED IN THE EVENT OF A SPILL.
5. A TARP MAY BE UTILIZED UNDERNEATH THE TYPE 2 GEOTEXTILE BAG AND JUST DOWN SLOPE OF THE BAG TO DISCOURAGE EROSION AND SCOUR.
6. A FLOATING SUCTION HOSE OR OTHER FLOTATION METHOD SHALL BE UTILIZED WHEN PUMPING FROM AN AREA WITH STANDING WATER TO AVOID SUCKING SEDIMENT FROM GRADE.
7. IF TURBID WATER IS LEAVING THE GEOTEXTILE BAG, THE CONTRACTOR SHALL SHUT OFF THE PUMP TO ALLOW SEDIMENTS TO SETTLE INTO THE BAG. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR DETERMINING THE SEDIMENT CAPACITY OF THE GEOTEXTILE BAG USING GOOD COMMON SENSE. SEDIMENT LEVELS CONTAINED IN THE BAG SHALL BE MONITORED TO MEASURE THE LOSS OF STORAGE CAPACITY OVER TIME. THE CONTRACTOR SHALL PROPERLY DISPOSE OF THE GEOTEXTILE BAG IN A WASTE RECEPTACLE ONCE IT IS NO LONGER USED.
8. DURING DEWATERING ACTIVITIES THE CONTRACTOR SHALL MONITOR DEWATERING PRACTICES AND KEEP A LOG OF THE FOLLOWING:
   - A. DISCHARGE DURATION AND SPECIFIED PUMPING RATE.
   - B. OBSERVED WATER TABLE AT TIME OF DEWATERING.
   - C. MAINTENANCE ACTIVITIES
   - D. NAME AND QUANTITY OF POLYMER USED. PRODUCT TYPE.
   - E. APPLICATION RATE OF POLYMER IN POUNDS/ACRE FEET OF WATER.
   - F. DATE AND TIME APPLIED.
   - G. WEATHER CONDITIONS DURING APPLICATION.
   - H. METHOD OF APPLICATION.

THIS LOG NEEDS TO BE KEPT ON SITE FOR WDNR REGULATORY REVIEW. COPIES OF THIS DOCUMENTATION SHOULD BE KEPT IN THE CONTRACTOR'S MONITORING LOG AND MADE AVAILABLE UPON REQUEST.

REVIEW THE FOLLOWING FOR MORE INFORMATION:

WDNR TECHNICAL STANDARD 1061 FOR DEWATERING –
http://dnr.wi.gov/topic/stormWater/documents/Dewatering_1061.pdf

WDNR TECHNICAL STANDARD 1050 FOR POLYMER –
http://dnr.wi.gov/topic/stormWater/documents/dnr1050–polyacrylimide.pdf

INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS WPDES PERMIT & CHAPTER 30 PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOODPLAINS UNLESS IDENTIFIED IN THE PLANS & APPROVED BY DNR/USACOE.

GENERAL NOTES:

ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS. (SEE DETAIL)

ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS

*8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

IF POSSIBLE, CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING METHODS:
(1)TWIST METHOD: OVERLAP END POSTS & TWIST AT LEAST 180 DEGREES.
(2)HOOK METHOD: HOOK THE END OF EACH SILT FENCE LENGTH.

AXONIMETRIC VIEW

TRENCH DETAIL

SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)

TWIST METHOD

HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE

① FILTER FABRIC SILT FENCE DETAIL

N.T.S.

SECTION A-A

PLAN VIEW

GENERAL NOTES:

THE AGGREGATE SIZE FOR CONSTRUCTION OF THE PAD SHALL BE 3- TO 6-INCH STONE. PLACE THE GRAVEL TO THE SPECIFIC GRADE & DIMENSIONS SHOWN ON THE PLANS & GRADE TO CREATE A SMOOTH SURFACE.

THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12 INCHES. USE GEOTEXTILE FABRICS, IF NECESSARY, TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS & IN ANY CASE SHALL NOT BE LESS THAN 15 FEET WIDE.

THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.

LOCATE CONSTRUCTION ENTRANCES & EXITS TO LIMIT SEDIMENT LEAVING THE SITE & TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID ENTRANCES WHICH HAVE STEEP GRADES & ENTRANCES AT CURVES IN PUBLIC ROADS.

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, & REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED BY THE END OF THE WORKDAY..

PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OULET.

WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, DESIGNATE AN AREA WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

② STONE TRACKING CONSTRUCTION ENTRANCE

N.T.S.

INLET PROTECTION, TYPE A

INLET PROTECTION, TYPE B, WITHOUT CURB BOX
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)

INLET PROTECTION, TYPE C, WITH CURB BOX

THIS DRAWING BASED ON WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD DETAIL DRAWING 8 E 10-2.

INLET PROTECTION, TYPE D.
(CAN BE INSTALLED IN ANY INLET TYPE, WITH OR WITHOUT A CURB BOX)

DANIEL M. JANKE
E-40464
MILWAUKEE
WI

Daniel Janke

GENERAL NOTES

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3".
WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

③ INLET PROTECTION DETAIL

N.T.S.

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Project Title:
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School District of Waukesha
401 E Roberta Ave, Waukesha, WI 53186

REVISIONS:

△	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

Project Number:
3353

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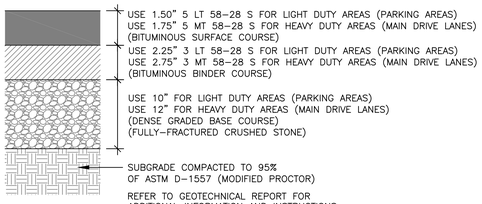
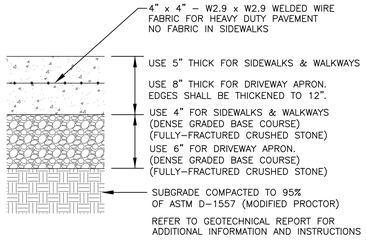
PLAN COMMISSION REVIEW
11/11/2019

Sheet Title:
SITE DETAILS

Sheet Number:
C2.1



4 ASPHALTIC CONCRETE PAVEMENT
N.T.S.



5 CONCRETE SIDEWALK/SLAB
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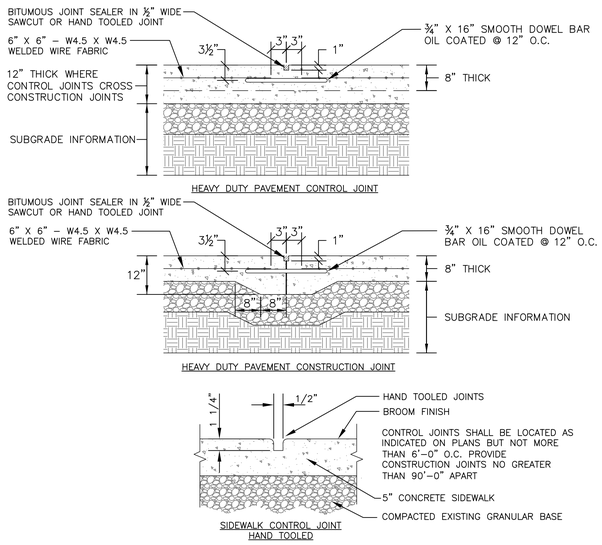

6 CONTROL & CONSTRUCTION JOINT DETAILS (TYP.)
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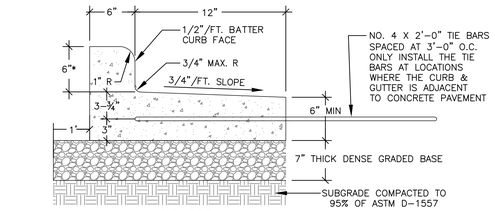
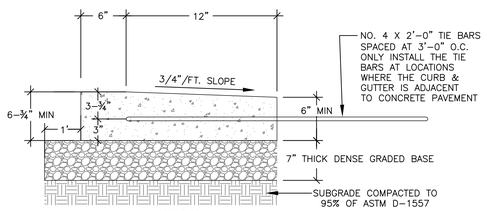


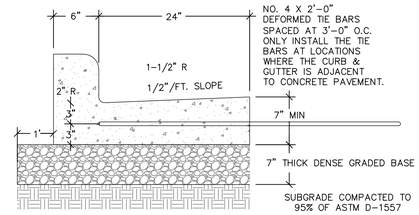
*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE. PROVIDE CONSTRUCTION JOINTS BETWEEN 10-FEET AND 300-FEET.

7 18-INCH BARRIER CONCRETE CURB & GUTTER
N.T.S.



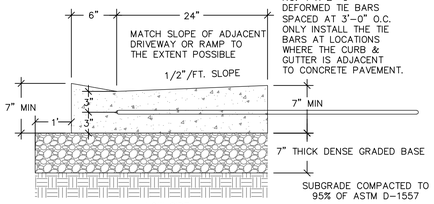
*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE. PROVIDE CONSTRUCTION JOINTS BETWEEN 10-FEET AND 300-FEET.

8 18-INCH DEPRESSED CONCRETE CURB & GUTTER
N.T.S.



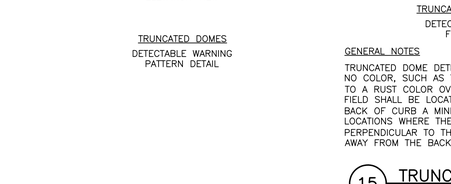
*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE.

9 30-INCH BARRIER CONCRETE CURB & GUTTER
N.T.S.



*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE.

10 30-INCH DEPRESSED CONCRETE CURB & GUTTER
N.T.S.



11 CONCRETE SIDEWALK WITH INTEGRAL CURB
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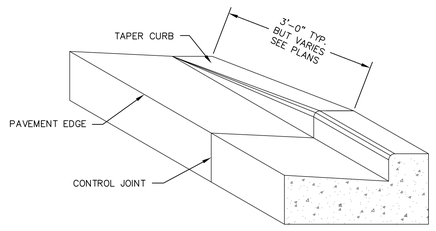
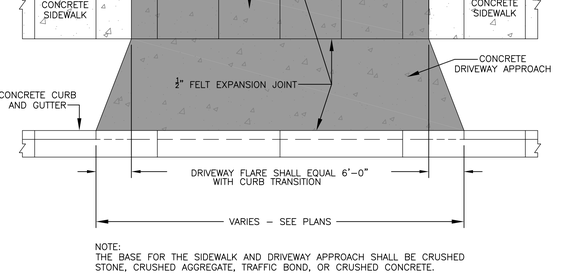
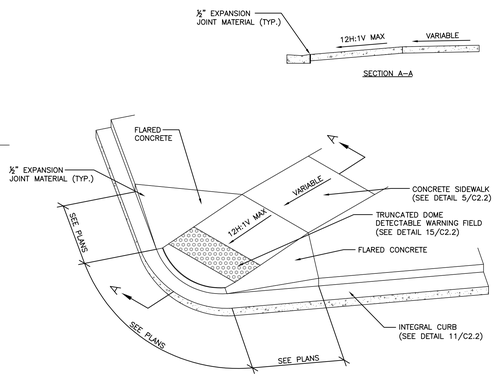


12 CONCRETE CURB & GUTTER TRANSITION TO ZERO-FACE CURB
N.T.S.

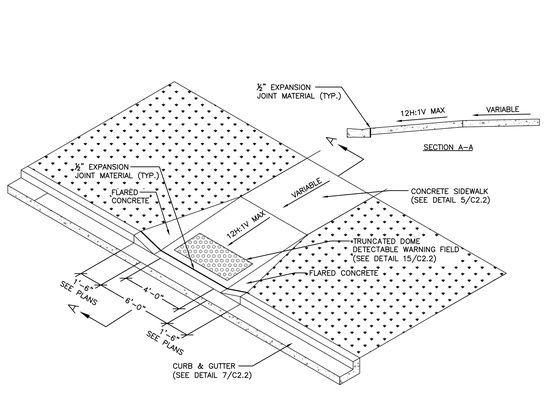


NOTE:
THE BASE FOR THE SIDEWALK AND DRIVEWAY APPROACH SHALL BE CRUSHED STONE, CRUSHED AGGREGATE, TRAFFIC BOND, OR CRUSHED CONCRETE.

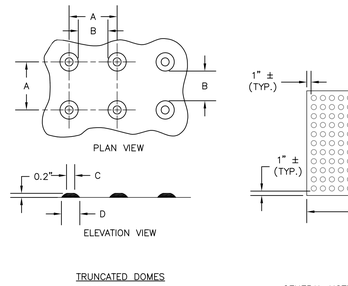
13 STANDARD CONCRETE DRIVEWAY
N.T.S.



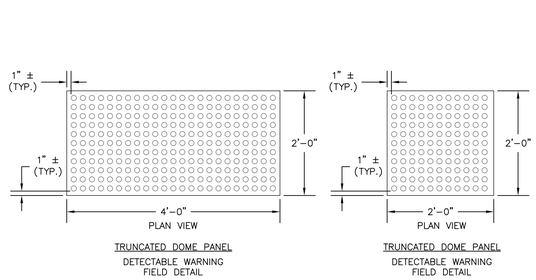
14A ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.



14B ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.



TRUNCATED DOMES
DETECTABLE WARNING
PATTERN DETAIL



TRUNCATED DOME PANEL
DETECTABLE WARNING
FIELD DETAIL

TRUNCATED DOME PANEL
DETECTABLE WARNING
FIELD DETAIL

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

GENERAL NOTES

TRUNCATED DOME DETECTABLE WARNING FIELD SHALL CONSIST OF CAST IRON PLATES WITH NO COLOR, SUCH AS THOSE MANUFACTURED BY NEENAH FOUNDRY. PLATES SHOULD WEATHER TO A RUST COLOR OVER TIME. USE 24"x48" PLATES OR 24"x24" PLATES. THE DETECTABLE WARNING FIELD SHALL BE LOCATED SO THAT IT IS CENTERED IN THE CURB RAMP WITH THE EDGE NEAREST THE BACK OF CURB A MINIMUM OF 6" AND A MAXIMUM OF 8" AWAY FROM THE BACK OF CURB. IN LOCATIONS WHERE THE RAMP IS SKEWED TO THE CURB, THE DETECTABLE WARNING FIELD IS TO RUN PERPENDICULAR TO THE DIRECTION OF TRAVEL, WITH THE EDGE NEAREST THE BACK OF CURB 4" AWAY FROM THE BACK OF CURB.

15 TRUNCATED DOME DETECTABLE WARNING FIELD
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Project Title:
Additions and Remodeling to:
Waukesha South High School
School District of Waukesha
401 E Roberta Ave, Waukesha, WI 53186

REVISIONS:

	DATE	DESCRIPTION

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Project Number: 3353

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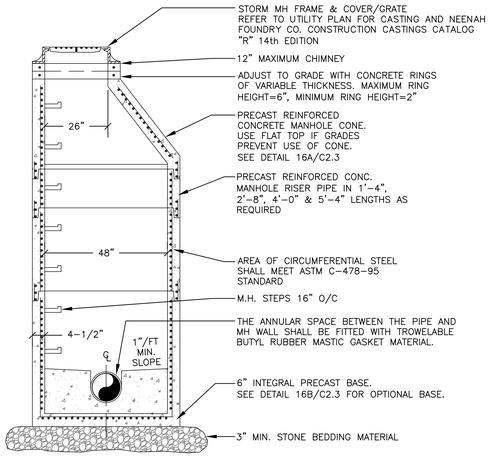
Sheet Title: SITE DETAILS

Sheet Number: C2.2



STORM MANHOLE NOTES:

1.) PRECAST CONCRETE ADJUSTING RINGS TO BE REINFORCED WITH ONE HOOP OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP.

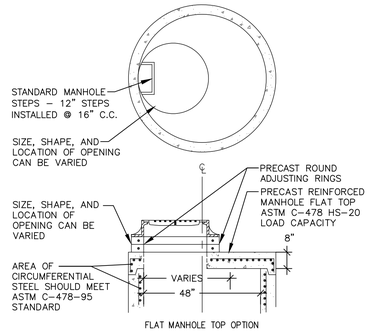
2.) CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

3.) JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL RUBBER MASTIC MATERIAL.

4.) 3" MIN. BEDDING MATERIAL REQUIRED UNDER MANHOLE BASE AND BACKFILLED STRUCTURE WITH GRANULAR BACKFILL MATERIAL.

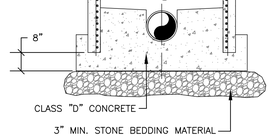
5.) SEE STANDARD SPECIFICATIONS, FILE NO. 12 FOR PRECAST MANHOLE AND FILE NO. 13 FOR MANHOLE INVERTS, INCLUDING INVERTS OF LATERAL SEWERS THAT CONNECT DIRECTLY TO MANHOLES.

16 STORM MANHOLE DETAIL
N.T.S.

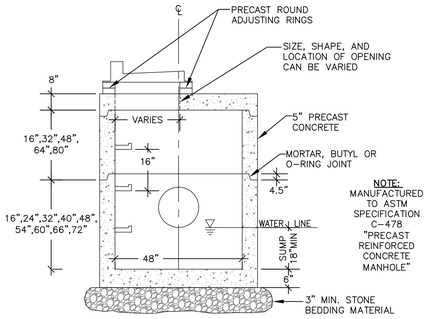


NOTE: USE ONLY WHEN LACK OF COVER PREVENTS USE OF CONE MANHOLE

16A OPTIONAL FLAT TOP MANHOLE WITH ROUND FRAME & COVER
N.T.S.



16B OPTIONAL POURED MANHOLE BASE FOR MANHOLES
N.T.S.



NOTE:
REFER TO SITE UTILITY PLAN FOR FRAME & GRATE & RIM ELEVATION.

17 48-INCH DIAMETER STORM CATCH BASIN WITH CURB BOX FRAME & GRATE
N.T.S.

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Milwaukee, WI 53217
www.kapurinc.com

Project Title:
Additions and Remodeling to:
Waukesha South High School
School District of Waukesha
401 E Roberta Ave, Waukesha, WI 53186

REVISIONS:

	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

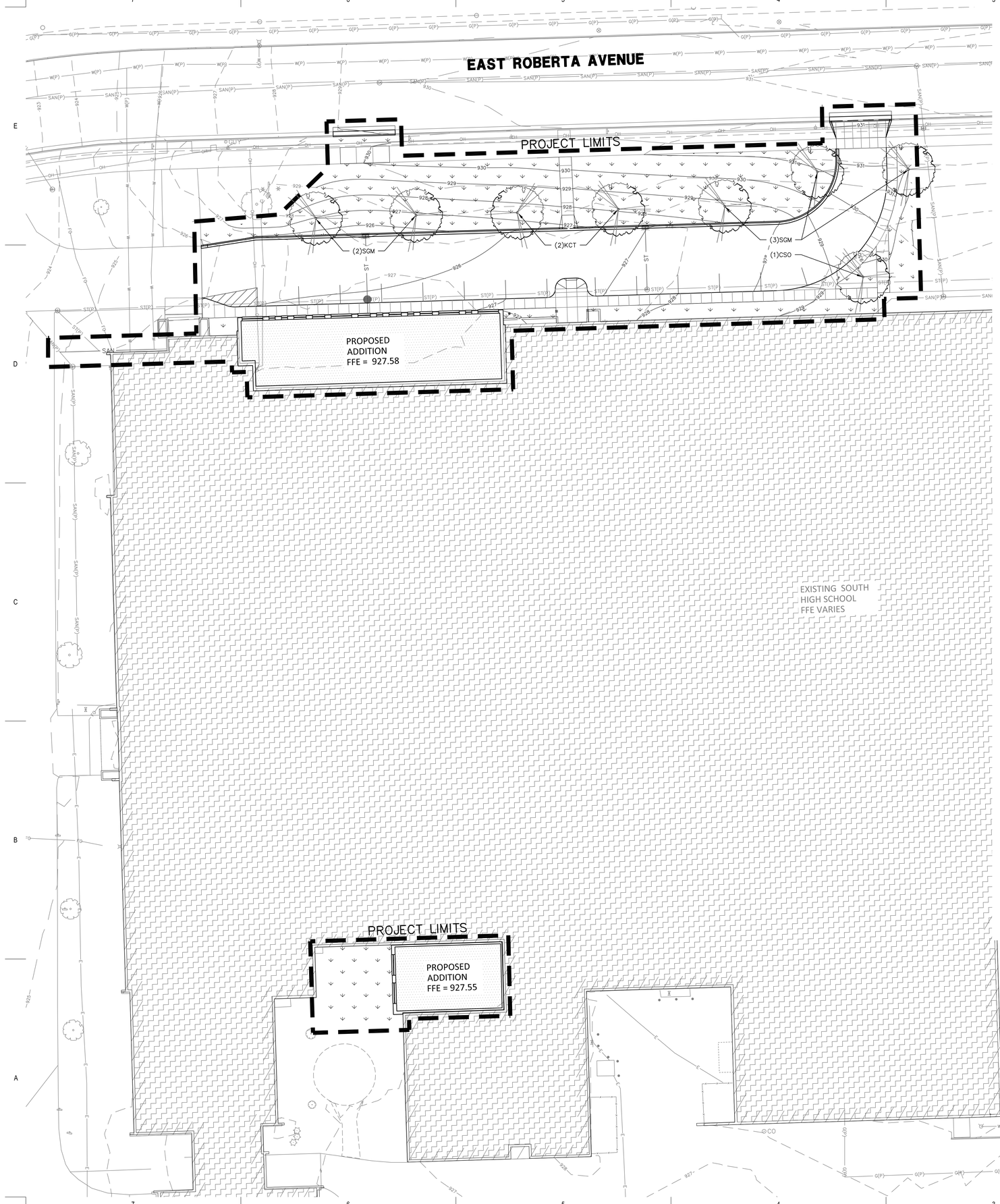
Project Number:
3353

Issued For:
PLAN COMMISSION REVIEW
11/11/2019

Sheet Title:
SITE DETAILS

Sheet Number:
C2.3

WISCONSIN
DANIEL M. JANKE
E-40464
MILWAUKEE
WI
PROFESSIONAL ENGINEER



Plant Schedule

	Scientific Name	Common Name	Quantity	Spacing	Install Size
Deciduous Trees					
CSO	Quercus robur 'Crimschmidt'	Crimson Spire Oak	1	Per Plan	3" B&B
KCT	Gymnocladus dioicus - MALE SPECIES	Kentucky Coffee Tree - MALE SPECIES	2	Per Plan	2.5" caliper B&B
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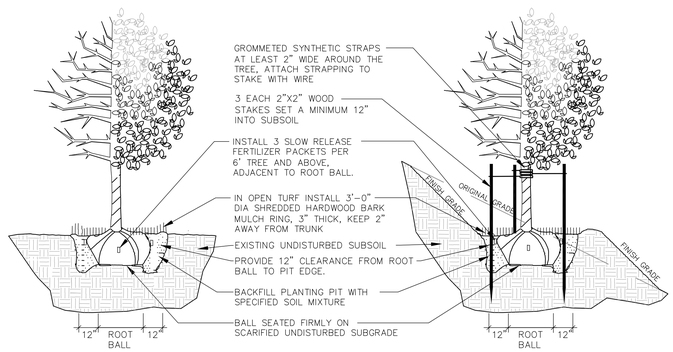
NOTE: Installation contractor is responsible for verifying plant count from plan. Plan quantities take precedence over list.

1 LANDSCAPE SCHEDULE
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION



2 DECIDUOUS TREE PLANTING, STAKING, & PLANTING ON A SLOPE
N.T.S.

1. ALL PLANT MATERIAL SHALL BE OBTAINED FROM A NURSERY LOCATED IN ZONE 5, CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AND BOTANICAL NAMES SHALL BE ACCORDING TO THE CURRENT EDITION OF "STANDARDIZED PLANT NAMES PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURE NOMENCLATURE.
2. CONTRACTOR TO PROVIDE TO THE LANDSCAPE ARCHITECT SAMPLES OF ALL BARK MULCHES FOR APPROVAL PRIOR TO INSTALLATION.
3. BARK MULCH TO BE FRESHLY ACQUIRED HARDWOOD SHREDDED BARK MULCH. NOT DOUBLE MILLED, EXCESSIVE DIRT AND DUST LIKE MATERIAL OR OLD MATERIAL IS NOT ACCEPTABLE.
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3 LANDSCAPE NOTES
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

WISCONSIN DANIEL M. JANKE E-40464 MILWAUKEE WI PROFESSIONAL ENGINEER

N

Scale: 0 10 20 40
Scale: 1" = 20'

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REVISIONS:

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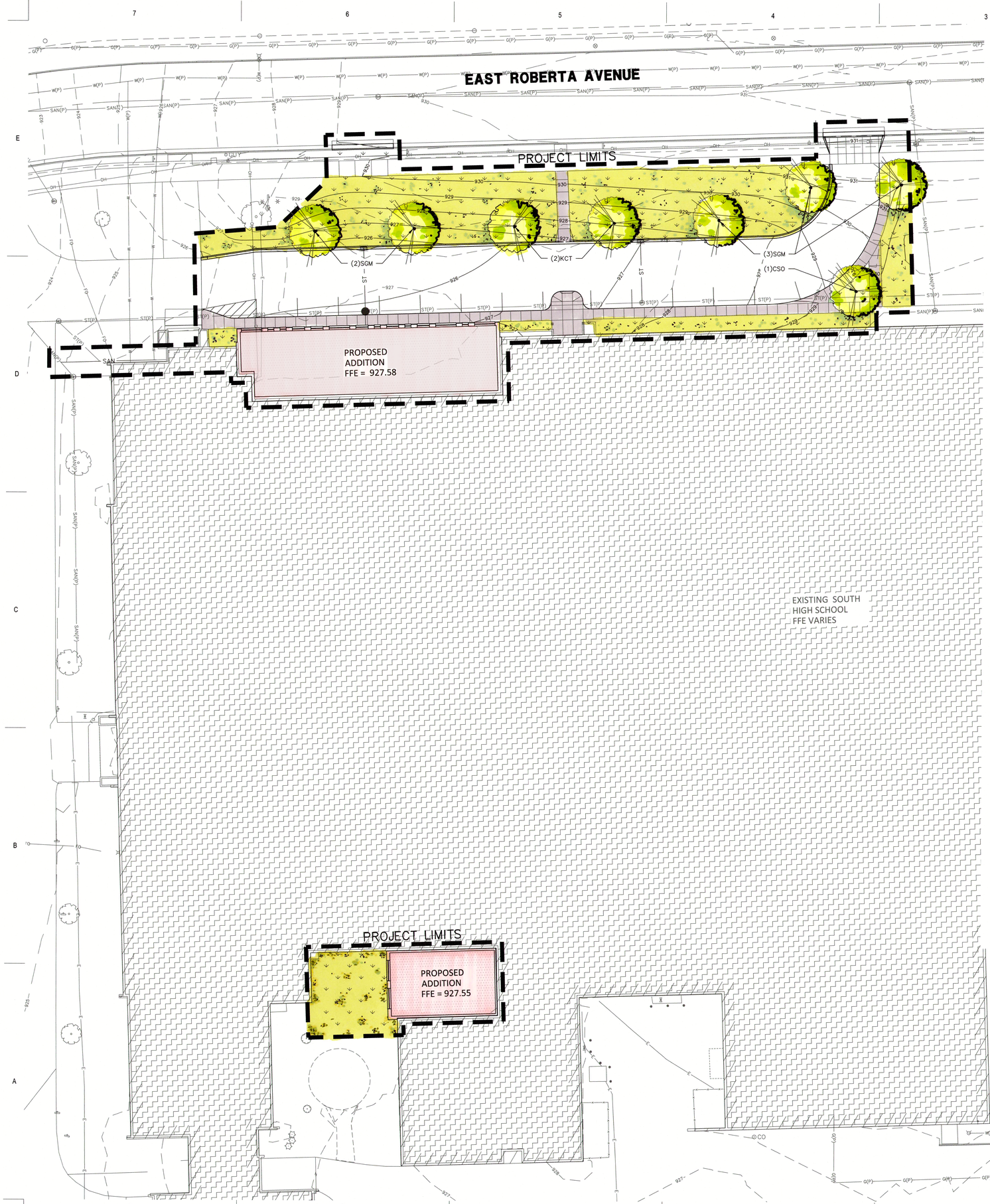
Project Number: **3353**

Issued For: **PLAN COMMISSION REVIEW** 11/11/2019

Sheet Title: **SITE LANDSCAPE PLAN**

Sheet Number: **L1.1**



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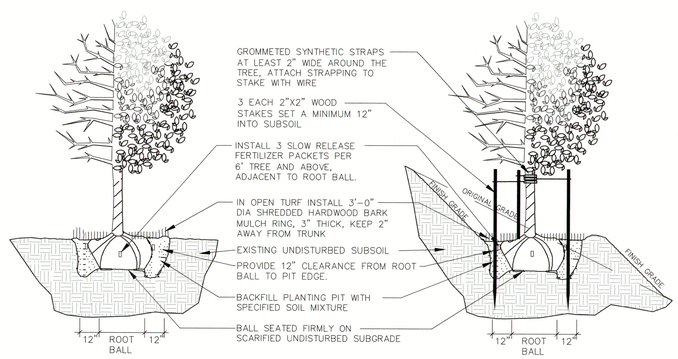

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3353

Issued For:
PROGRESS SET
08/29/2019

Sheet Title:
SITE LANDSCAPE PLAN

Sheet Number:
L1.1

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solid foundation. forward thinking.

Project #:3353

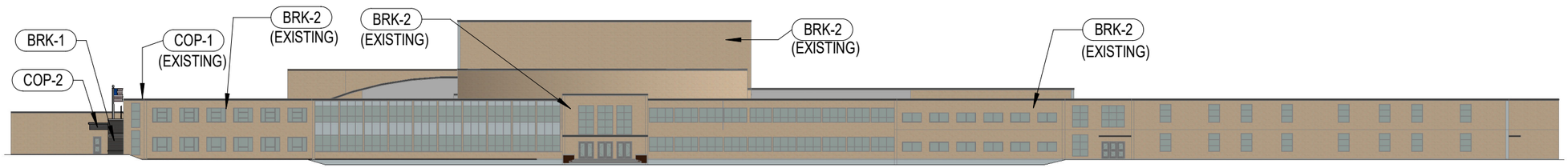
WAUKESHA SOUTH HIGH SCHOOL

401 E ROBERTA DR, WAUKESHA, 53186

12/11/2019

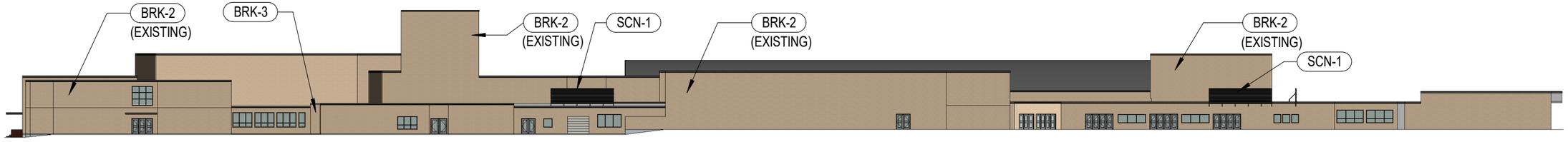
OVERALL - EAST ELEVATION

Scale: 1" = 50'-0"



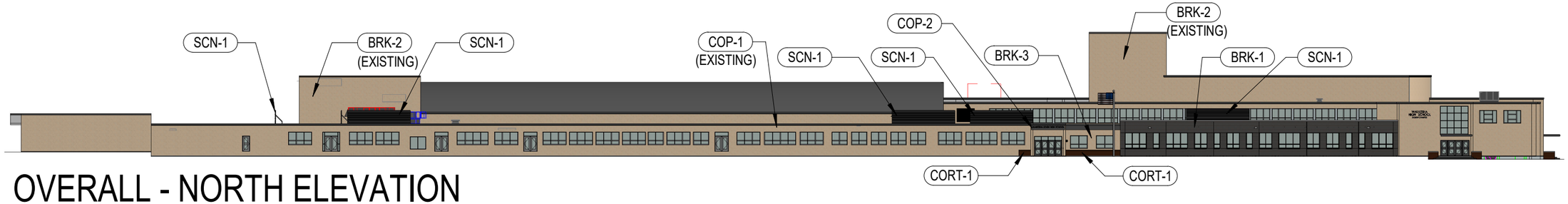
OVERALL - WEST ELEVATION

Scale: 1" = 50'-0"



OVERALL - SOUTH ELEVATION

Scale: 1" = 50'-0"



OVERALL - NORTH ELEVATION

Scale: 1" = 50'-0"

KEYNOTE LEGEND	
BRK-1	MANGANESE IORNSPORT VELOUR MODULAR BRICK
BRK-2	EXISTING BRICK
BRK-3	MATCH EXISTING EXISTING BRICK
COP-1	EXISTING COPING
COP-2	MATCH EXISTING COPING
CORT-1	CORTEN STEEL
SCN-1	PREMANUFACTURED ANODIZED ROOF EQUIPMENT SCREEN TO MATCH EXISTING METAL TRIM

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Project #: 3353

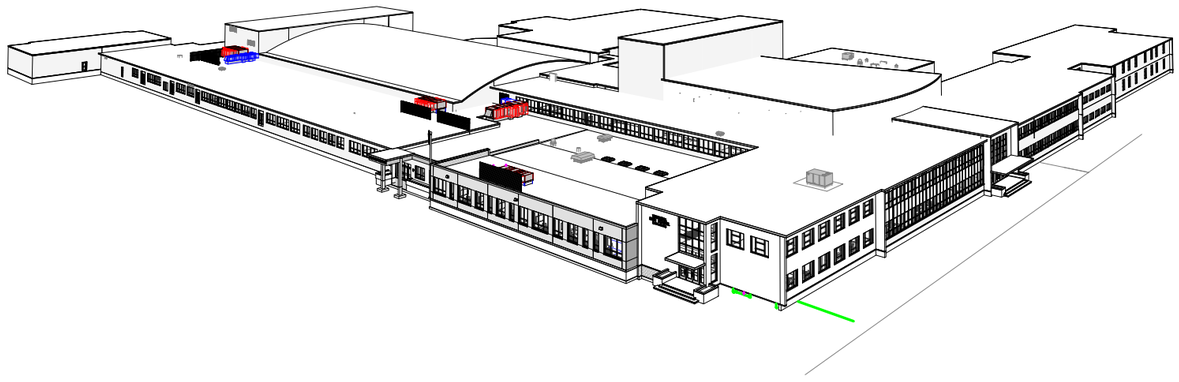
Waukesha South High School

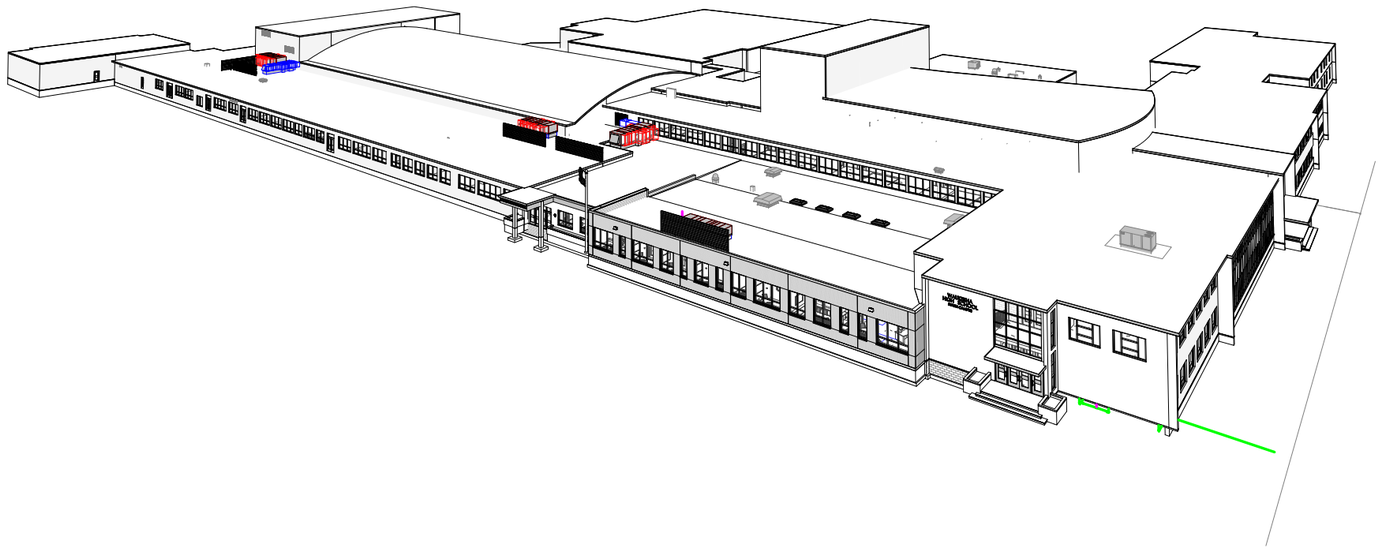
401 E Roberta Ave, Waukesha, WI 53186

11/08/19

XX.XX

OVERALL ELEVATIONS





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401 E Roberta Ave, Waukesha, WI 53186

11/8/19

XX.YY
OVERAL AXONS