



Village of Hartland

210 Cottonwood Avenue

Hartland WI 53029

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VILLAGE BOARD AGENDA MONDAY, APRIL 28, 2025 ▪ 6:30 PM BOARD ROOM, MUNICIPAL BUILDING, 210 COTTONWOOD

Call to Order

Roll Call

Pledge of Allegiance – Trustee Hallquist

Swearing in of Newly Elected Officials

Public Comments: Please be advised the Village Board will receive comments from the public related to any item(s) for a three-minute time period per person, with time extensions per the Village President's discretion. This meeting will be recorded and will be available online through the Village's website.

1. Approval of Minutes
 - a. March 24, 2025
 - b. April 14, 2025
2. Items related to vouchers
 - a. Consideration of vouchers for payment in the amount of \$131,035.01
3. Items related to Licenses and Permits
 - a. Consideration of Class "B" Beer and "Class C" Wine license for Beer Snobs at Hartland Beer Garden at Nixon Park

Referred from Plan Commission April 21, 2025 Meeting

4. Review and consideration of addition to Lake Country Lutheran, 401 Campus Drive

Other Items for Consideration

5. Review and consideration of Baker Tilly to do an Examination of expenditures of ARPA funds as required by the Federal Government
6. Consideration of the 2026 Budget Preparation Schedule
7. Consideration of Board, Commission and Committee appointments as presented by Village President Pfannerstill

8. Discussion and consideration of rescheduling the May 26th Village Board meeting to May 27th.
9. Verification of Board members' completion of Harassment Training and Phishing & Social Engineering videos.
10. Discussion regarding Village Board's willingness to potentially waive impact, sewer connection and/or Regional Sewer Availability Charge fees related to Three Leaf's senior living project on Campus Drive.
11. Announcements: The following individuals will be given an opportunity to make announcements at the meeting in regard to (1) activities taken since the previous meeting on behalf of the community, (2) future municipal activities, and (3) communications received from citizens. It is not contemplated that these matters will be discussed or acted upon. The following individuals may provide announcements: Village President or individual Village Board members or Village Manager or other Village Staff members.
12. Keller building presentation
13. Adjourn

Ryan Bailey, Village Manager

Notice: Please note that upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service, contact Sandee Policello, Village Clerk, at 262-367-2714. The Municipal Building is handicap accessible.

To participate via Zoom in the Village of Hartland Board meeting, please dial 1 (312) 626-6799. The meeting ID is: 818 1228 1142
Passcode: 637225 Or participate online: <https://us02web.zoom.us/j/81812281142?pwd=Ll4bz6J3x2hfN2cTMc9p1ahBqXDjMy.1>

**VILLAGE OF HARTLAND
VILLAGE BOARD MINUTES
MONDAY, MARCH 24, 2025 · 6:30 PM
BOARD ROOM, MUNICIPAL BUILDING, 210 COTTONWOOD**

President Pfannerstill called the meeting to order at pm.

Present: President Pfannerstill, Trustees de Boer, Truttschel, Wallschlager, Conner

Others Present: Clerk Policello, Fire Chief Jambretz, Kajib Sharp – FD, DPW Director Jenson, Police Lt. Jewel

Public Comment: Please be advised the Village Board will receive comments from the public related to any item(s) for a three-minute time period per person, with time extensions per the Village President's discretion. This meeting will be recorded and will be available online through the Village's website.

Lake Country Municipal Court presentation by Judge Kay. The court has a small surplus; which they like to maintain in the event they have a covid type of closure again. The operations committee meets monthly; Chief Misko is on the committee. They have two full-time clerks and two part-time clerks. All four employees are in the office on Fridays, which is court day. There are no complaints and things are going well.

1. Approval of Minutes
 - a. March 10, 2025
 - b. March 16, 2025

Motion (Conner/Truttschel) to approve the Minutes of March 10 and March 16, 2025. All were in favor, **motion carried.**

2. Items related to vouchers
 - a. Consideration of vouchers for payment in the amount of \$183,880.43

Motion (Wallschlager/Truttschel) to pay vouchers in the amount of \$183,880.43.

Trustee Conner asked about grave markers purchased for \$1,100. DPW Director Jenson said this is new a new expense; we are going to mark graves after a burial until the monument is placed. This will hopefully prevent having to do radar in the cemetery again. Conner asked about the library's café payment for \$23,546 to Waukesha County. The Clerk will ask the Librarian for information on this payment and will inform the Board.

All were in favor, **motion carried.**

3. Items related to Licenses and Permits
 - a. Consideration of bartender/operator license – Kay-Lynn Marie Jean Young

The applicant did not appear in person. She has possession of an intoxicant in vehicle in 2023; also possession of TCH in 2019.

Chief Misko recommends approval of the application; her position is with Walgreens.

Motion (Truttschel/Conner) to approve the bartender license for Kay-Lynn Marie Jean Young. All were in favor, **motion carried.**

4. Discussion and consideration of Medline Discharge Agreement.

Rob Minnema, manager of Del-Hart appeared in person. He highlighted the changes from the last agreement with Medline. He worked with Medline for a few months on the new agreement; they have had some changes in their product lines; the flow of 10,000 gal/day monthly average is staying the same; sampling requirements are the same; he has not had any issues with them. The fee schedule hasn't been changed since they took over the facility from the last tenant 15 years ago; the fee schedule was updated with an increase in exceedance fines. The chloride limit was changed; Medline requested a return to 500 ppm (currently 400 ppm); he spoke with DNR and there is no detriment to return to that number. This is a 5 year agreement through 2029.

Motion (Conner/Wallschlager) to approve. All were in favor, **motion carried.**

5. Discussion and consideration to award Visu Sewer the 2025 Sewer Cleaning and Televising Contract for an amount not to exceed \$30,000.

DPW Director Jenson obtained 3 proposals; Visu Sewer was the low bid, he specified what areas they will televise.

Motion (Wallschlager/de Boer) to award the 2025 Sewer Cleaning and Televising contract to Visu Sewer, not to exceed \$30,000. All were in favor, **motion carried.**

6. Discussion and consideration to award the 2025 Hydrant Painting Contract to Ferguson Waterworks for an amount not to exceed \$7,000.

DPW Director Jenson said we do this maintenance annually. Three proposals were sought; two proposed the same bid; we have had scheduling issues with Faith Leak Detection in the past. Staff recommends awarding to Ferguson Waterworks, they are a reputable company.

See #7

7. Discussion and consideration to award the 2025 Leak Detection Contract to Ferguson Waterworks for the sum of \$4,650.

DPW Director Jenson said leak detection is done after hydrants are opened. This can help prevent water main breaks; three proposals obtained; Ferguson was lowest. Staff recommends awarding the contract to Ferguson Waterworks.

Motion (Truttschel/Conner) to award the 2025 Hydrant Painting Contract not to exceed \$7,000 and the 2025 Leak Detection Contract for the sum of \$4,650 to Ferguson Waterworks.

Trustee Wallschlager asked if they checked every hydrant; Jenson confirmed they do. Trustee Conner said one company had a detailed proposal for the hydrant painting and Ferguson did not; he asked if Ferguson will follow the same steps that the other company outlined; Jenson said Ferguson will do the same standard steps.

All were in favor, **motion carried.**

8. Presentation of the 2024 MS4 Report

DPW Director Jenson presented the MS4 Report. The MS4 Report insures that we have a high standard for health and public water. It accounts for runoff and anything going into a storm sewer. Things that the Village does toward this effort is street sweeping, catch basin vacuuming, leaf and brush pickup, pond inspections, elicit discharge, SWIP inspection, erosion control permitting, calibration of our salting equipment, Nixon pond dredging. The goal is to stop sedimentation from getting to the waterways and rivers; it's the phosphorous loading that we are looking out for. This permit is reviewed annually by R&M as well as by himself and staff.

9. Announcements: The following individuals will be given an opportunity to make announcements at the meeting in regard to (1) activities taken since the previous meeting on behalf of the community, (2) future municipal activities, and (3) communications received from citizens. It is not contemplated that these matters will be discussed or acted upon. The following individuals may provide announcements: Village President or individual Village Board members or Village Manager or other Village Staff members.

DPW Director Jenson said Hwy 83 repaving is schedule to start 3/31 – access will be maintained to residences and businesses. There is a QR code to sign up to keep up with progress. He has put out information on Facebook. Utility contract work will start on West Capitol and will finish before Hometown. There will be traffic signs on Capitol, which will not be a full closure. He is still looking for summer help; two are returning from last year.

Chief Jambretz said we are 10 calls over last year at this time. Since the three full-time staff have been in place, we have only had to give up one call; previously we were giving up one per week. They have been given jobs to be responsible for at the station.

Chief Misko met with the Chamber Director. Street Dance is tentatively scheduled for August 23rd. Equipment has been received for handgun replacements; they have a 10-year lifecycle. They were upgraded with red dot optics.

They met with the Waukesha County Communication Center. There will be a significant upgrade in 2028; current radios won't work after the upgrade. This will be expensive and affects fire, police and DPW. The cost will be \$7,000 \$8,000 per radio. He is hoping that the chosen provider will offer a bulk purchase discount. LTE and wifi will be added to the radios, which requires a monthly subscription. The 2025 squad replacement came in early and has been delivered.

President Pfannerstill said the Spring Election is April 1st; absenting voting is taking place this week. Voting is at Village Hall.

10. Consideration of a motion to recess into closed session pursuant to State Statute §19.85(1)(e) to deliberate or negotiate the purchase of public properties, the investing of public funds, or conducting other specified public business, whenever competitive or bargaining reasons require a close session, specifically to negotiate a contract for the operation of the beer garden.

Motion (Conner/Truttschel) to go into closed session; roll call vote; all were in favor, **motion carried**. Closed session began at 7:25 pm.

11. Motion to reconvene in open session, to take any action if necessary, with respect to the preceding closed session.

Motion (Truttschel/Wallschlager) to return to open session. 8:59 pm.

Motion (Conner/Truttschel) to approve the agreement for operation of the beer garden in Nixon Park with adjustments to the draft on food, equipment, gross sales, payment terms, signage, licenses, mowing and cleaning; Beer Snobs to operate the beer garden. All were in favor, **motion carried**.

12. Adjournment

Motion (Conner/Wallschlager) adjourn at 9:03 pm.

Respectfully submitted,

Sandee Policello
Village Clerk

**VILLAGE OF HARTLAND
VILLAGE BOARD MINUTES
MONDAY, APRIL 14, 2025 · 6:30 PM
BOARD ROOM, MUNICIPAL BUILDING, 210 COTTONWOOD**

President Pfannerstill called the meeting to order at 6:30 pm.

Present: President Pfannerstill, Trustees de Boer, Truttschel, Pfeiffer, Wallschlager, Conner, Hallquist

Others Present: Village Manager Bailey, Clerk Policello, Fire Chief Jambretz, Kajil Sharp, Fire Department, DPW Director Jenson, Recreation Coordinator Costa, Recreation Director Blonien

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Melissa Cady, 1001 River Reserve. She said on Maple Avenue where the speed limit goes from 35 to 45 mph there is one crosswalk. Her daughter was crossing after a stopped car waived her to cross; a car went around the stopped car and almost hit her. She is asking that the speed limit stay 35 mph to North Shore Drive and highlight the crosswalk more. President Pfannerstill asked her to contact Waukesha County, as that area is a county road. He said that we police that area and will let the Police Department know to keep an eye on that area. Pfannerstill asked her to contact DPW Director Jenson for County contact information.

1. Items related to vouchers
 - a. Consideration of vouchers for payment in the amount of \$723,258.68

Motion (Wallschlager/Conner) to pay vouchers in the amount of \$723,258.68.

Trustee Conner questioned on page 4, multiple payments to Lexus Nexus. Village Manager Bailey said they are related to investigations that the Police Department is doing. After Deputy Chief Collura retired, they did not have an updated email address for invoices, so there are multiple invoices on this voucher list. All were in favor, **motion carried**.

2. Items related to Licenses and Permits
 - a. Consideration of Park Food Vendor Application
 - i. S3 Deli – Nixon Park, Industrial Park

Matt Ballantyne from S3 Deli was present. He has been open on Capitol Dr. since July 2nd 2024. They are trying to get his food trailer to Nixon Park for the beer garden. He would like to offer healthier options. He would also like to park in a private lot in the industrial park; he said he has permission from a building owner. With Hwy 83 construction starting, it will reduce options for people that work in that area even more.

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Ballantyne would like to be in Nixon Park anytime the beer garden is open; there is a lot of foot traffic and a need.

Trustee Conner spoke with Stephanie Mercado, co-owner of Beer Snobs, on Saturday, and she told Conner that if she had to, she would do it, but she would rather not serve food. Village Manager Bailey spoke with Mercado today and they are looking to upgrade the electrical at the beer garden/Fine Arts Center to install an oven. Bailey said Beer Snobs posted a beer garden menu on Facebook today.

Trustee Wallschlager asked if the beer garden contract has been signed and if it includes Beer Snobs providing food. The contract has been signed and authorizes Beer Snobs to serve food. Wallschlager asked if S3 Deli would be able to be in Nixon Park at all times that the beer garden is open. Ballantyne confirmed that he would be.

Trustee Hallquist said on Sunday Tim Mitchell, co-owner of Beer Snobs, said they will have food and they don't know where the rumors are coming from.

Trustee Pfeiffer said if we want this, we need to change the ordinance. President Pfannerstill said Beer Snobs has felt pressured by other restaurant owners and they asked him if the Village wants Beer Snobs to do food; Pfannerstill said the Village does want them to do food.

Trustee Hallquist asked if Beer Snobs would have signed the contract if they knew we were going to allow an additional food business in the park when the beer garden is open.

Bailey asked Ballantyne if he wanted to be at the beer garden if there were 3 or 4 additional food trucks. Ballantyne said he would.

Wallschlager asked what food items Ballantyne would sell that Beer Snobs isn't going to sell. Ballantyne said he will come up with options that Beer Snobs isn't going to do; he doesn't want to step on toes.

Pfannerstill said the beer garden was never set up to have multiple trucks; it was meant to attract people to come to Hartland and have dinner at a local restaurant and then head over to the beer garden. Ballantyne said he considers the beer garden a special event.

Truttschel agrees with Hallquist; we negotiated a weekly rate that was based on beer/wine and food sales. We need to respect that contract. He said we worked on the mobile food vendor ordinance for 10 months and we need to respect that.

Pfannerstill said our ordinance does not allow food trucks in the park outside of a special event; we would need to look at modifying the ordinance.

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Ballantyne said he would want to go before the Park Board; he asked why the ordinance was put into place to not have food trucks in the park, surrounding communities have them. Pfannerstill said there were some business owners that didn't want them. When the beer garden was designed, it was for a picnic feel for the community to gather. It's not meant to take away from the other area food businesses.

Hallquist said we didn't want food trucks from outside of Hartland to take business away from local businesses.

Conner said we want to support local business, rather than operate the beer garden as the Village.

Ballantyne has a low powered generator that operates on propane; he would move it out of the park every night.

Pfeiffer said he brought up the ordinance already, which needs to be addressed first. He said he would like food trucks, after the ordinance is addressed. He wants to talk to Beer Snobs to make sure they are ok with any change. Food vendors would need to pay a weekly fee. Conner said we would make more money as a Village if we charged additional food trucks.

Pfannerstill said we would need a weekly fee; he wouldn't require a contract.

Trustee deBoer said she is a supporter of local business; she is uncomfortable not knowing how Beer Snobs feels, and would like this information so there is no confusion.

Bailey said if he has a contract, Ballantyne could be at special events for no additional fee, with the permission of the special event organizer.

Pfannerstill said this should go to Park Board May 5th for their recommendation. If they think the ordinance should change, it would then go to the Village Board at both May meetings and the first meeting in June. Pfannerstill said that would be the fastest it would go through both boards.

Motion (Conner/deBoer) to refer review of the mobile/park food vendors ordinance and S3 Deli's park food vendor application to the Park board for review.

Hallquist asked if S3 Deli could try his food trailer in Centennial Park to see how it does; that park is busy with baseball and lacrosse. Pfannerstill said we would have to do something with the ordinance first. All were in favor, **motion carried**.

ii. Little Dipperz – All parks, all year

Tanya Little, operator of Little Dipperz at 131 E. Capitol Drive, appeared before the Board. Trustee Hallquist asked if we want a schedule for her to be in the parks. Trustee Wallschlager said consistency of vendors is important. Little said last year she had a permit for all parks, at any time. Little said staffing is an issue for her. She said her target would be Thursday nights at Nixon, 5:30 - 8:30 pm and also events at other parks. Hallquist said the current policy allows only 2 Mobile Food Facilities in a park at one time.

Trustee Conner said for consistency, this application should go to the Park Board as well, same as S3 Deli. If the S3 Deli application violates our current policy, he thinks this application would as well. Conner is supportive of the application, but we need to be consistent. Trustee Truttschel agrees. President Pfannerstill said he brought this up last year to the Board when the application was reviewed. Hallquist said this was approved last year with the policy as it is; this could go either way. Pfannerstill said last year it was viewed differently because it is a cart and not a trailer or a truck. Trustee Pfeiffer said that a truck or trailer takes up a parking spot; he does think that they are different than a cart, but he also agrees that they are the same in a lot of ways.

Little said she does plan on participating at Bark River Bash; the Clerk said she would need to submit her application and pay the one-time \$75 fee for that event as she has not been approved for a seasonal permit at this time. The annual fee is \$150.

Craig Eisenhut, 201 North Avenue, he serves on the Park Board. He said the Park Board discussed food trucks and there is an application for it, this was discussed and passed that food trucks can be in the park. Also, talking about ordinances, there is one that prohibits carry-ins, so we are promoting against an ordinance. He doesn't understand why this is coming back to the Park Board when it has already been discussed and passed. Bailey said it is because what was passed is a policy and it goes against our ordinance; the Park Board created the policy. Eisenhut said Little Dipperz had a permit last year, as did the donut truck, so that policy should be revisited. He asked if there was a temporary variance that the applicants could get.

Hallquist said per the current food truck policy it says only 2 mobile food facilities are allowed in the park, so it needs to be revisited. Wallschlager said the policy defines a mobile food facility as trucks, trailers, carts, bicycles, so it lists them there, so there is no difference between a truck and a cart according to the policy. Bailey questioned the fee and if it is to be paid every time they are in the park. Hallquist said the fee is \$75 for one time and he thinks they rolled it over to \$150 for the season.

Pfannerstill asked if the change or changes that were made by the Park Board in 2024 came to the Village Board to change the ordinance. He said there are two boards outside of the Village Board that are mandated by state law, the Police and Fire Commission and Plan Commission, with the exception of the Library Board. Until the Village Board votes on it and makes it worth something, it's an opinion that is sent from a committee, he is stating this for clarification. This is a mess and needs to start at the Park Board. An annual permit was issued to this applicant last year. He wants to see a difference from someone selling food, versus ice cream in the park. This is what happens when we bend the rules. This has turned into a mess and it falls on him and he should have stood up last year and said no. We have a contract with Beer Snobs; if Hartland wants food trucks at the park, then that's what it should be. Wallschlager asked if Beer Snobs was also going to sell ice cream; ice cream is on the list of items they can sell in their agreement.

Trustee Truttschel asked if Little was in the park every weekend last year; she said she was there every weekend that she could be and that it didn't rain. She was there primarily Thursdays because of staffing; she said this year looks a lot different.

Trustee deBoer said the Food Truck Policy indicates that all mobile food facilities shall comply with Chapter 9 of the Wisconsin Food Code, entitled "Mobile Food Establishments" as adopted in ATCP sec. 75.112; she doesn't know what ATCP is. Bailey said that is just a policy that goes against our ordinance.

Conner said he can amend his original motion made for the last item to include Little Dipperz. de Boer agreed to the amendment.

Ballantyne asked if there was any possibility for a temporary permit while this is going through. Hallquist said if Little talks to Bark River Bash organizers she can participate in that event. He said it's possible to suspend the last reading of an ordinance amendment, which would mean it could be approved quicker and Little may not miss any time in the park. Pfannerstill wants to be respectful to Beer Snobs and he doesn't want to give the false impression that if the ordinance is changed, that Little can be at Nixon during the beer garden hours.

All were in favor, **motion carried.**

The meeting went to recess at 7:46 pm and resumed at 7:53 pm.

Referred from Park Board April 7, 2025 Meeting

3. Discussion and consideration of Special Event Applications
 - a. KM Explore Charter School – May 6, 2025

Becky Cavanaugh appeared in person, she is the music teacher for KM Explore Charter School, they are housed at Wales Elementary; she would like to have their pirate concert for the kindergarteners through fifth graders at the Fine Arts Center on May 6th, for about 100 children. This would include a rehearsal during the day and a performance in the evening.

Trustee Hallquist said this was discussed at Park Board, we are thankful they are using our stage. Recreation Coordinator Costa said staff can unlock the facility during the day and lock it up after rehearsal and reopen it at night and lock it back up. Cavanaugh said just the risers will be at the Center during the day.

Motion (Wallschlager/Truttschel) to approve the KM Explore Charter School event for May 6th. All were in favor, **motion carried**.

b. National Night Out – August 7, 2025

Costa introduced the new Recreation Director, Sam Blonien. Costa said this event will be similar to last year's event. The Police Department has applied for an appearance by a Blackhawk helicopter. Chick-fil-A, Kona Ice and Dough Nation will be there.

Motion (Hallquist/deBoer) to approve National Night out on August 7, 2025.

Pfannerstill said the food trucks should be paying the \$75 fee. Hallquist amended his motion to include food trucks; deBoer agreed to the amendment. All were in favor, **motion carried**.

4. Discussion and consideration regarding placement of BID sculpture in Nixon Park

Steve Ostendorf, US Bank and new BID President appeared. He said 14 months ago Arrowhead students presented the sculpture; it has been completed and is currently stored at the library. Initially, a downtown location was sought, however, the line of site was an issue; they think the beer garden would be the best exposure.

Trustee Hallquist asked how large the cement pad is. DPW Director Jenson said they are working on placement; they will build the pad to fit the structure. It will be adjacent to the path for ease of grass maintenance. The structure will be anchored to the slab; Jenson said there is a streetlight above the structure and it will also benefit from the glow of ballards on both sides of it and beer garden lighting. Installation of new lighting would cost \$5,000 - \$10,000, so it was decided not to add lighting.

Trustee Wallschlager asked if the ground is solid enough in that area; Jenson said that area has a higher bank and they will also put down a base; no DNR permission is required per Jenson.

Motion (Pfeiffer/Conner) to approve placement of the BID sculpture location in Nixon; all were in favor, **motion carried.**

Other Items for Consideration

5. Conceptual review and consideration of seven single family development at Badger Court and Eagle Pass Court

There was no appearance by the applicant, no action was taken.

Gary Stombach, 305 Badger Drive was in attendance to listen to the proposal.

6. Presentation of Consumer Confidence Report

DPW Director Jenson presented the 2024 CCR which provides data for the Hartland water distribution system. The information is available at Village Hall and the website. The service line inventory related to the lead issue is completed; PFAS numbers are included; hardness is at 23; fluoride was discontinued in 2024. Jenson is attending meetings regarding PFAS. Nothing has been determined by the DNR or the EPA regarding PFAS.

7. Presentation of Fire Department Annual Report

Chief Jambretz presented the Fire Department's 2024 Annual Report

8. Announcements: The following individuals will be given an opportunity to make announcements at the meeting in regard to (1) activities taken since the previous meeting on behalf of the community, (2) future municipal activities, and (3) communications received from citizens. It is not contemplated that these matters will be discussed or acted upon. The following individuals may provide announcements: Village President or individual Village Board members or Village Manager or other Village Staff members.

President Pfannerstill said due to the length of this evening's meeting, the trustees can view the harassment and cyber training at home and sign off that they viewed it. If they don't complete it at home, they will watch it at Village Hall.

Sam Blonien introduced herself as the new Recreation Director; she has over 12 years of professional recreation experience; most recently she was at New Berlin where she was the assistant recreation manager and oversaw the day to day operations, facility management, youth sports and the full-time staff team. She is a UW Whitewater alumni and she is happy to be here. They are finishing t-ball rosters; coaches will go through their background checks. They met with Wenzel Amazements for Hometown. They are finishing hiring camp staff. The pickleball program started today. Summer registration opens the end of this month.

Heather was recently married last weekend and will be changing her last name in a few weeks.

DPW Director Jenson said Hwy 83 is closing as of today; DOT is providing updates; he is sitting in on weekly meetings to be kept up to date. Maps are posted at Village Hall and he is putting as much information out as possible. Village paving projects start April 21 on East Park and will go through May 7th and will end prior to the splash pad opening and big events at the park. They will then work on West Park and W. Capitol. The utility project has started on W. Capitol already and should be done before the 83 project gets to that area. The upper area of the cemetery will be repaved. Brush pick up started today; Hartridge is 75% done. They will make one pass through the Village. The recycling yard is opening for the season; new this year residents will use the back gate entrance into the yard; this change is an improvement as public vehicles will not interfere with DPW traffic and there is a blind spot at the former location. The Hartbrook playground equipment has been installed and finishing work needs to be done. DPW is still in need of summer help. Parks are open tomorrow; bathrooms will be open and water on. Power and light is installed to the flagpole; concrete work needs to be done. The scoreboard has been installed and the BID/Arrowhead structure will be installed.

Chief Jambretz said they have averaged 100 calls the last 3 months, which is ahead of last year. The pancake maker is done; Quality Fabrication in the industrial park built it for them and Sullivan Precision Plate on Cardinal Ave. shined up the plate and got the coating off. It will be dedicated to the family that donated the funds for the pancake maker.

Village Manager Bailey said Dajuan Cherry of Cherry Faith is looking for the Village to put money into his proposed project; he is looking for \$500,000. If a trustee wants the Village to put money into the project, they can let Mr. Bailey know and it can go on an agenda. President Pfannerstill said he won't put something on an agenda that he doesn't support; but if someone wants it on an agenda they can do that.

President Pfannerstill congratulated Heather Costa on her wedding. He is looking forward to the beer garden opening.

9. Adjourn to view Harassment Training and Phishing & Social Engineering videos.

Motion (Pfeiffer/Conner) to adjourn and that we do the harassment training and phishing training at home and sign off that they completed it or we will do it at the next meeting.

Meeting adjourned at 8:54 pm.

Respectfully submitted,
Santee Policello
Village Clerk

To: Village President & Board of Trustees

From: Tonia Smith, Fiscal Clerk

Date: April 23, 2025

RE: Voucher List

Attached is the voucher list for the
April 28, 2025 Village Board Meeting

April 28, 2025 Checks: \$ 131,035.01

Total Amount of all Checks: \$ 131,035.01

VILLAGE OF HARTLAND
VOUCHER LIST - APRIL 28, 2025

Account Descr	Search Name	Comments	Amount
G 101-23000 SPECIAL DEPOSITS	ALZOKARI, MOHAMED	418 MERTON AVE WITHDRAWN BUSINESS OCCUPANCY	\$500.00
G 101-31630 HOMETOWN CELEBRATION DONATIONS	HOME DEPOT	30 AMP BREAKER	\$25.97
R 101-44100 LICENSES	JUST DOUGH-LIGHTFUL	PARK FOOD VENDOR FEE REFUND	\$75.00
R 101-46730 RECREATION CLASSES	LEWIS, SARAH	REISSUE/ SPORTY SHORTY SOCCER REFUND	\$18.25
G 403-31896 KWIK TRIP	RUEKERT & MIELKE	EROSION CONTROL INSPECTIONS AND ADMIN	\$437.04
G 403-31897 THREE LEAF QUARRY	RUEKERT & MIELKE	CONSTRUCTION ADMIN	\$3,104.05
G 403-31840 HOMESTEAD	RUEKERT & MIELKE	DESIGN/ CONSTRUCTION REVIEW	\$469.30
G 620-14200 CUSTOMER ACCOUNTS RECEIVABLE	WILLERT, MATTHEW J	DUPLICATE PAYMENT REFUND	\$121.20
G 204-14200 CUSTOMER ACCOUNTS RECEIVABLE	WILLERT, MATTHEW J	DUPLICATE PAYMENT REFUND	\$130.05
			\$4,880.86
AMBULANCE			
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	BOUND TREE MEDICAL	VARIOUS MEDICAL SUPPLIES	\$34.55
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	BOUND TREE MEDICAL	VARIOUS MEDICAL SUPPLIES	\$134.88
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	BOUND TREE MEDICAL	VARIOUS MEDICAL SUPPLIES	\$129.99
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	HENRY SCHEIN INC.	VARIOUS MEDICAL SUPPLIES	\$42.48
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	HENRY SCHEIN INC.	VARIOUS MEDICAL SUPPLIES	\$93.34
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	HENRY SCHEIN INC.	VARIOUS MEDICAL SUPPLIES	\$27.60
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	HENRY SCHEIN INC.	VARIOUS MEDICAL SUPPLIES	\$22.70
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	HENRY SCHEIN INC.	VARIOUS MEDICAL SUPPLIES	\$234.76
E 101-52300-300 OPERATING SUPPLIES/EXPENSES	HENRY SCHEIN INC.	VARIOUS MEDICAL SUPPLIES	\$31.50
E 101-52300-290 OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	IT SUPPORT	\$75.00
E 101-52300-290 OUTSIDE SERVICES/CONTRACTS	WAUKESHA COUNTY TREASURER	NET MOTION/ INTERGRAPH - CAD MOBILE/ USDD	\$1,617.63
AMBULANCE			\$2,444.43
CEMETERY PAVING - ANNEX UPPER			
E 401-79175-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.93
CEMETERY PAVING - ANNEX UPPER			\$277.93
COTTONWOOD ALTERNATIVE			
E 401-70630-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.94
COTTONWOOD ALTERNATIVE			\$277.94
DEBT SERVICE			
E 301-58000-305 EXPENSES-OTHER	BOND TRUST SERVICES CORP	95403-PA GENERAL OBLIGATION CORP PURPOSE BOND	\$400.00
E 301-58000-305 EXPENSES-OTHER	BOND TRUST SERVICES CORP	95401-PA GENERAL OBLIGATION REFUNDING BONDS	\$400.00
E 301-58000-305 EXPENSES-OTHER	BOND TRUST SERVICES CORP	95402-PA GENERAL OBLIGATION CORP PURPOSE BOND	\$400.00
E 301-58000-305 EXPENSES-OTHER	BOND TRUST SERVICES CORP	95404-PA GENERAL OBLIGATION CORP PURPOSE BOND	\$400.00
DEBT SERVICE			\$1,600.00

Account Descr	Search Name	Comments	Amount	
ECONOMIC DEVELOPMENT				
E 804-56700-715	STREETSCAPE PROGRAM	PATIO PETALS	SIDEWALK PLANTERS SPRING	\$680.00
ECONOMIC DEVELOPMENT			\$680.00	
ELECTIONS				
E 101-51440-300	OPERATING SUPPLIES/EXPENSES	PEWAUKEE, VILLAGE OF	SHARED ELECTION PUBLICATION NOTICES	\$42.65
ELECTIONS			\$42.65	
ENVIRONMENTAL SERVICES				
E 101-53635-460	LANDSCAPE MANAGEMENT	GEO-SYNTHETICS	MULCH FOR HYDRO SEEDER	\$1,587.30
E 101-53635-460	LANDSCAPE MANAGEMENT	GRAINGER	PARTS FOR HYDRO SEEDER	\$37.74
E 101-53635-460	LANDSCAPE MANAGEMENT	GRAINGER	PARTS FOR HYDRO SEEDER	\$62.09
ENVIRONMENTAL SERVICES			\$1,687.13	
FINANCIAL ADMINISTRATION				
E 101-51500-290	OUTSIDE SERVICES/CONTRACTS	DIVERSIFIED BENEFIT SERVICES	FSA FEES	\$94.70
E 101-51500-290	OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	CLOUD BACKUP	\$56.67
E 101-51500-290	OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	IT SUPPORT	\$246.86
E 101-51500-300	OPERATING SUPPLIES/EXPENSES	ONTECH SYSTEMS, INC	ADOBE PRO	\$299.00
FINANCIAL ADMINISTRATION			\$697.23	
FIRE PROTECTION				
E 101-52200-300	OPERATING SUPPLIES/EXPENSES	BATTERY PRODUCTS INC	VARIOUS BATTERIES	\$29.64
E 101-52200-255	BLDGS/GROUNDS	BIEBELS TRUE VALUE	BRUSH/ CONTAINER/ COATING	\$61.05
E 101-52200-290	OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	IT SUPPORT	\$112.50
E 101-52200-255	BLDGS/GROUNDS	TERMINIX	PEST CONTROL	\$170.13
E 101-52200-255	BLDGS/GROUNDS	TERMINIX	PEST CONTROL (REISSUE)	\$78.72
E 101-52200-290	OUTSIDE SERVICES/CONTRACTS	WAUKESHA COUNTY TREASURER	NET MOTION/ INTERGRAPH - CAD MOBILE/ USDD	\$1,617.63
FIRE PROTECTION			\$2,069.67	
GENERAL ADMINISTRATION				
E 101-51400-300	OPERATING SUPPLIES/EXPENSES	FOX BROS PIGGLY WIGGLY	NAPKINS	\$2.79
E 101-51400-210	LEGAL SERVICES	LAW OFFICE OF KIMBERLY KERSHEK	LEGAL FEES	\$1,200.00
E 101-51400-290	OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	IT SUPPORT	\$262.50
E 101-51400-290	OUTSIDE SERVICES/CONTRACTS	PROSHRED SECURITY	SHREDDING SERVICES	\$62.45
E 101-51400-395	COMMUNITY RELATIONS	REARDON METAL FABRICATING	BEER GARDEN SIGNAGE	\$595.00
E 101-51400-210	LEGAL SERVICES	VON BRIESEN & ROPER	LEGAL FEES	\$3,465.00
GENERAL ADMINISTRATION			\$5,587.74	
HARTBROOK PARK PLAYGROUND EQPT				
E 401-76195-285	CONSTRUCTION COSTS	BOLAND RECREATION	HARTBROOK PLAYGROUND INSTALLATION	\$26,128.00
HARTBROOK PARK PLAYGROUND EQPT			\$26,128.00	

Account Descr	Search Name	Comments	Amount
KESTREL WAY			
E 401-70625-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.93
KESTREL WAY			<u>\$277.93</u>
LAW ENFORCEMENT			
E 101-52100-360 VEHICLE MAINT/EXPENSE	HARTLAND SERVICE INC	SQ#9 OIL CHANGE AND TIRE ROTATION	\$1,238.95
E 101-52100-360 VEHICLE MAINT/EXPENSE	HARTLAND SERVICE INC	SQ#3 OIL CHANGE	\$80.55
E 101-52100-290 OUTSIDE SERVICES/CONTRACTS	MOCIC	MOCIC 2025 MEMBERSHIP	\$150.00
E 101-52100-290 OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	IT SUPPORT	\$637.50
E 101-52100-300 OPERATING SUPPLIES/EXPENSES	SHEA, MATTHEW	REIMBURSEMENT FOR DCI TRAINING	\$615.29
E 101-52100-290 OUTSIDE SERVICES/CONTRACTS	WAUKESHA COUNTY TREASURER	INMATE BILLING	\$31.27
E 101-52100-290 OUTSIDE SERVICES/CONTRACTS	WAUKESHA COUNTY TREASURER	SPILLMAN LAW REC/ INTERGRAPH - CAD MOBILE	\$8,692.05
LAW ENFORCEMENT			<u>\$11,445.61</u>
LIBRARY			
E 101-55110-255 BLDGS/GROUNDS	HOME DEPOT	LIGHT FOR VILLAGE HALL	\$139.94
E 101-55110-300 OPERATING SUPPLIES/EXPENSES	LYNDEN INC	WOOD CARVING WORKSHOP 5/6/25	\$300.00
E 101-55110-290 OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	CLOUD BACKUP	\$50.00
E 101-55110-355 JANITORIAL SUPPLIES	PIONEER SUPPLY LLC	VARIOUS JANITORIAL SUPPLIES	\$383.00
E 101-55110-290 OUTSIDE SERVICES/CONTRACTS	RICOH AMERICAS CORP	COPIER SERVICES STAFF	\$96.01
E 101-55110-290 OUTSIDE SERVICES/CONTRACTS	RICOH AMERICAS CORP	COPIER SERVICES FLOOR	\$96.01
E 101-55110-255 BLDGS/GROUNDS	SCHINDLER ELEVATOR CORP	ELEVATOR SERVICE	\$1,701.75
E 101-55110-255 BLDGS/GROUNDS	TERMINIX	PEST CONTROL (REISSUE)	\$251.25
E 101-55110-255 BLDGS/GROUNDS	TERMINIX	PEST CONTROL (REISSUE)	\$165.01
E 101-55110-300 OPERATING SUPPLIES/EXPENSES	TORCHIA, DR. LEXEE	SPEAKER AT STAFF TRAINING 5/19/25	\$250.00
LIBRARY			<u>\$3,432.97</u>
LIBRARY SPEC EXPENSE			
E 205-59100-305 EXPENSES-OTHER	4IMPRINT	LIBRARY T-SHIRTS	\$1,386.35
LIBRARY SPEC EXPENSE			<u>\$1,386.35</u>
MISC SIDEWALK/CURB REPAIRS			
E 401-75010-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.93
MISC SIDEWALK/CURB REPAIRS			<u>\$277.93</u>
MISC STORM SEWER REPAIR			
E 401-74010-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	MISC STORM SEWER REPAIRS	\$440.17
E 401-74010-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	ANNUAL REPORT	\$1,470.00
MISC STORM SEWER REPAIR			<u>\$1,910.17</u>
MUNICIPAL BUILDING			
E 101-51600-290 OUTSIDE SERVICES/CONTRACTS	ALSCO	MAT SERVICES	\$254.24
E 101-51600-255 BLDGS/GROUNDS	HOME DEPOT	DUST MOP HANDLE	\$59.94

Account Descr	Search Name	Comments	Amount
E 101-51600-290 OUTSIDE SERVICES/CONTRACTS	OTIS ELEVATOR CO	MAINTENANCE SERVICE 5/1/25-7/31/25	\$428.31
E 101-51600-355 JANITORIAL SUPPLIES	PIONEER SUPPLY LLC	VARIOUS JANITORIAL SUPPLIES	\$383.00
E 101-51600-255 BLDGS/GROUNDS	TERMINIX	PEST CONTROL (REISSUE)	\$79.90
E 101-51600-290 OUTSIDE SERVICES/CONTRACTS	TERMINIX	PEST CONTROL	\$160.50
E 101-51600-290 OUTSIDE SERVICES/CONTRACTS	TERMINIX	PEST CONTROL	\$79.90
MUNICIPAL BUILDING			<u>\$1,445.79</u>
NIXON SCOREBOARD UPDATE			
E 401-76196-285 CONSTRUCTION COSTS	SOUTHEAST ELECTRICAL SERVICES LLC	NIXON PARK SCOREBOARD ELECTRICAL WORK	\$7,551.33
NIXON SCOREBOARD UPDATE			<u>\$7,551.33</u>
PARK AVENUE			
E 401-70655-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.93
PARK AVENUE			<u>\$277.93</u>
PARKS			
E 101-55200-365 BLDGS/GROUNDS MAINT EXPENSE	BIEBELS TRUE VALUE	EXCHANGE QUICK SNAP LINK	\$0.90
E 101-55200-365 BLDGS/GROUNDS MAINT EXPENSE	BIEBELS TRUE VALUE	CEIL FLANGE	\$16.17
E 101-55200-365 BLDGS/GROUNDS MAINT EXPENSE	FERGUSON WATERWORKS	PARTS FOR SOFTBALL BATHROOM FAUCET	\$40.82
E 101-55200-365 BLDGS/GROUNDS MAINT EXPENSE	FERGUSON WATERWORKS	URINAL HARTBROOK	\$296.38
E 101-55200-365 BLDGS/GROUNDS MAINT EXPENSE	HOME DEPOT	ELECTRICAL FITTINGS AND WIRE	\$82.72
E 101-55200-365 BLDGS/GROUNDS MAINT EXPENSE	KIMBALL MIDWEST	SCREWS	\$111.94
E 101-55200-370 ATHLETIC FACILITY MAINTENANCE	MENARDS- PEWAUKEE	CANTEEN HARDWARE	\$68.46
E 101-55200-365 BLDGS/GROUNDS MAINT EXPENSE	PORT-A-JOHN	PORTABLE BATHROOMS VARIOUS PARKS	\$316.00
E 101-55200-365 BLDGS/GROUNDS MAINT EXPENSE	PORT-A-JOHN	PORTABLE BATHROOMS	\$197.00
E 101-55200-370 ATHLETIC FACILITY MAINTENANCE	REARDON METAL FABRICATING	CAP FOR NIXON CANTEEN	\$256.00
PARKS			<u>\$1,386.39</u>
PRAIRIE GRASS COURT			
E 401-70640-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.94
PRAIRIE GRASS COURT			<u>\$277.94</u>
PUBLIC WORKS			
E 101-53000-225 STREET LIGHTING	CA LIGHTING LENSES INC	GLOBE FOR STREET LIGHTS	\$916.50
E 101-53000-360 VEHICLE MAINT/EXPENSE	EH WOLF	NO LEAD FUEL	\$1,427.91
E 101-53000-180 OTHER BENEFITS	EXECU PRINT	REFLECTIVE SHIRTS FOR STAFF	\$1,162.33
E 101-53000-300 OPERATING SUPPLIES/EXPENSES	FOX BROS PIGGLY WIGGLY	BINGO SUPPLIES	\$30.87
E 101-53000-180 OTHER BENEFITS	FOX BROS PIGGLY WIGGLY	FOOD/ DRINKS FOR TRAINING	\$50.10
E 101-53000-180 OTHER BENEFITS	ITU ABSORBTECH INC	UNIFORM SERVICES	\$162.70
E 101-53000-360 VEHICLE MAINT/EXPENSE	KIMBALL MIDWEST	MISC HARDWARE	\$842.49
E 101-53000-300 OPERATING SUPPLIES/EXPENSES	OLSEN SAFETY EQUIPMENT CORP	RAIN PPE	\$524.80
E 101-53000-300 OPERATING SUPPLIES/EXPENSES	OLSEN SAFETY EQUIPMENT CORP	OIL SPILL KIT	\$251.37
E 101-53000-360 VEHICLE MAINT/EXPENSE	POMPS TIRE SERVICE INC	LAWN TIRE	\$104.00

Account Descr	Search Name	Comments	Amount
E 101-53000-360 VEHICLE MAINT/EXPENSE	PROVEN POWER INC	SEAT FOR 4610	\$135.13
E 101-53000-300 OPERATING SUPPLIES/EXPENSES	ULINE	WELDING SUPPLY CABINET	\$690.52
PUBLIC WORKS			<u>\$6,298.72</u>
RECREATION PROGRAMS/EVENTS			
E 101-55300-300 OPERATING SUPPLIES/EXPENSES	AMERICAN LITHO	SUMMER REC GUIDES	\$5,951.00
E 101-55300-290 OUTSIDE SERVICES/CONTRACTS	FOX BROS PIGGLY WIGGLY	BINGO SUPPLIES	\$10.98
E 101-55300-290 OUTSIDE SERVICES/CONTRACTS	HOOPER HANDS BASKETBALL AC	PASS SHOOT SCORE CLASSES	\$2,044.00
E 101-55300-290 OUTSIDE SERVICES/CONTRACTS	HUNT-MATTHES, KATE	GIFTS OF GRATITUDE	\$144.00
RECREATION PROGRAMS/EVENTS			<u>\$8,149.98</u>
RIVER GROVE LANE			
E 401-70645-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.94
RIVER GROVE LANE			<u>\$277.94</u>
RIVER RESERVE DRIVE			
E 401-70600-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.94
RIVER RESERVE DRIVE			<u>\$277.94</u>
SEWER SERVICE			
E 204-53610-290 OUTSIDE SERVICES/CONTRACTS	DIVERSIFIED BENEFIT SERVICES	FSA FEES	\$14.57
E 204-53610-290 OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	IT SUPPORT	\$337.50
E 204-53610-290 OUTSIDE SERVICES/CONTRACTS	ONTECH SYSTEMS, INC	CLOUD BACKUP	\$56.66
E 204-53610-800 CAPITAL OUTLAY	RUEKERT & MIELKE	MISC SANITARY SEWER REPAIRS	\$1,012.46
E 204-53610-800 CAPITAL OUTLAY	RUEKERT & MIELKE	DESIGN AND BIDDING	\$2,577.21
E 204-53610-290 OUTSIDE SERVICES/CONTRACTS	SABEL MECHANICAL	CRYSTAL LIFT STATION REBUILD	\$3,521.60
SEWER SERVICE			<u>\$7,520.00</u>
STORM SWR CATCH BASIN REPAIR			
E 401-74075-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	MISC CATCH BASIN REPAIRS	\$641.00
STORM SWR CATCH BASIN REPAIR			<u>\$641.00</u>
SWITCH GRASS COURT			
E 401-70635-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.94
SWITCH GRASS COURT			<u>\$277.94</u>
TIF FUND EXPENSES			
E 217-58300-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	DESIGN	\$2,542.82
TIF FUND EXPENSES			<u>\$2,542.82</u>
UNBUDGETED			
E 401-57300-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	GRANT RESEARCH	\$485.00
E 401-57300-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	RIGHT OF WAY VERIFICATION	\$4,220.41
E 401-57300-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	GENERAL SERVICES	\$4,941.75

Account Descr	Search Name	Comments	Amount
E 401-57300-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	EROSION CONTROL INSPECTION	\$413.30
UNBUDGETED			\$10,060.46
WATER UTILITY			
E 620-53700-923 OUTSIDE SERVICES	DIVERSIFIED BENEFIT SERVICES	FSA FEES	\$36.42
E 620-53700-652 MAINTENANCE OF SERVICES	HOME DEPOT	DRILL/ KIT	\$587.00
E 620-53700-652 MAINTENANCE OF SERVICES	HOME DEPOT	ADAPTER	\$56.32
E 620-53700-631 WATER TREATMENT - CHEMICALS	MARTELLE WATER TREATMENT	VARIOUS CHEMICALS	\$6,809.56
E 620-53700-923 OUTSIDE SERVICES	NORTHERN LAKE SERVICE INC	WATER SAMPLE TESTING	\$29.00
E 620-53700-923 OUTSIDE SERVICES	NORTHERN LAKE SERVICE INC	WATER SAMPLE TESTING	\$87.00
E 620-53700-923 OUTSIDE SERVICES	ONTECH SYSTEMS, INC	CLOUD BACKUP	\$56.67
E 620-53700-923 OUTSIDE SERVICES	ONTECH SYSTEMS, INC	IT SUPPORT	\$337.50
E 620-53700-933 TRANSPORTATION EXPENSES	POMPS TIRE SERVICE INC	TIRES FOR TRUCK W2	\$167.14
E 620-53700-662 WATER TREATMENT EQUIP	RUEKERT & MIELKE	STUDY WORK	\$5,289.25
E 620-53700-923 OUTSIDE SERVICES	RUEKERT & MIELKE	GIS MAINTENANCE	\$2,780.00
E 620-53700-673 TRANS&DIST MAINS	RUEKERT & MIELKE	MISC VALVE REPAIRS	\$395.39
E 620-53700-681 COMPUTERS & SOFTWARE	RUEKERT & MIELKE	PLC UPGRADE	\$1,653.60
E 620-53700-678 HYDRANTS	RUEKERT & MIELKE	MISC HYDRANT REPAIRS	\$381.50
WATER UTILITY			\$18,666.35
WESTLYNN COURT			
E 401-70650-290 OUTSIDE SERVICES/CONTRACTS	RUEKERT & MIELKE	VARIOUS PROFESSIONAL FEES	\$277.94
WESTLYNN COURT			\$277.94
			\$131,035.01

Beer Garden original

Form AB-200

Alcohol Beverage License Application

For Municipal Use Only	
Municipality	
License Period	

License(s) Requested: (up to two boxes may be checked)

- Class "A" Beer \$ _____
- Class "B" Beer \$ 16.67
- "Class A" Liquor \$ _____
- "Class B" Liquor \$ _____
- "Class A" Liquor (cider only) \$ _____
- Reserve "Class B" Liquor \$ _____
- "Class C" Liquor (wine only) \$ 16.67

Fees	
License Fees	\$ <u>33.34</u>
Background Check Fee	\$ <u>7.00</u>
Publication Fee	\$ <u>20.00</u>
Total Fees	\$ <u>60.34</u>

Part A: Premises/Business Information

1. Legal Business Name (individual name if sole proprietorship)
2 Kids from Stallis LLC

2. Business Trade Name or DBA
Beer Snobs

3. FEIN 88-1156270 4. Wisconsin Seller's Permit Number 456-1030933469-04

5. Entity Type (check one)
 Sole Proprietor Partnership Limited Liability Company Corporation Nonprofit Organization

6. State of Organization WI 7. Date of Organization 3/10/22 8. Wisconsin DFI Registration Number T095967

9. Premises Address
122 Cottonwood Ave

10. City Hartland 11. State WI 12. Zip Code 53029

13. County Waukesha 14. Governing Municipality: City Town Village of: Hartland 15. Aldermanic District

16. Premises Phone (262) 17. Premises Email beersnobs122@gmail.com 18. Website www.beersnobs.hartland.com

19. Premises Description - Describe the building or buildings where alcohol beverages are produced, sold, stored, or consumed, and related records are kept. Describe all rooms within the building, including living quarters. Authorized alcohol beverage activities and storage of records may occur only on the premises described in this application. Attach a map or diagram and additional sheets if necessary.
warming shed, main building behind stage at Nixon Park, storage in same building

20. Mailing Address (if different from premises address)
5219 Robinwood Lane

21. City Hales Corners 22. State WI 23. Zip Code 53130

Part B: Questions

1. Has the business (sole proprietorship, partnership, limited liability company, or corporation) been convicted of violating federal or state laws or local ordinances? Exclude traffic offenses unless related to alcohol beverages. Yes No

If yes, list the details of violation below. Attach additional sheets if necessary.

Law/Ordinance Violated	Location	Trial Date
Penalty Imposed	Was sentence completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Law/Ordinance Violated	Location	Trial Date
Penalty Imposed	Was sentence completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	

2. Are charges for any offenses pending against the business? Exclude traffic offenses unless related to alcohol . . . Yes No beverages.
 If yes, describe the nature and status of pending charges using the space below. Attach additional sheets as needed.

3. Is the applicant business or any of its officers, directors, members, agent, employees, owners, or other related individuals or entities a restricted investor with any interest in an alcohol beverage producer or distributor? . . . Yes No
 If yes, provide the name of the restricted investor and describe the nature of the interest.

4. Is the applicant business owned by another business entity? . . . Yes No
 If yes, provide the name(s) and FEIN(s) of the business entity owners below. Attach additional sheets as needed.

4a. Name of Business Entity	4b. Business Entity FEIN
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5. Have the partners, agent, or sole proprietor satisfied the responsible beverage server training requirement for this license period? Submit proof of completion. Yes No
 6. Is the applicant business indebted to any wholesaler beyond 15 days for beer or 30 days for liquor/wine? Yes No
 7. Does the applicant business owe past due municipal property taxes, assessments, or other fees? Yes No

Part C: Individual Information

List the name, title, and phone number for each person or entity holding the following positions in the applicant business or businesses listed in Part B, Question 4: sole proprietor, all officers, directors, and agent of a corporation or nonprofit organization, all partners of a partnership, and all members, managers, and agent of a limited liability company. Attach additional sheets if necessary.
 Include Form AB-100 for each person listed below. Corporations and LLCs must appoint an agent by including Form AB-101.

Last Name	First Name	Title	Phone
Mercado	Stephanie	owner	(262)408-1301
Mitchell	Timothy	owner	(414)467-2381

Part D: Attestation

One of the following must sign and attest to this application:
 • sole proprietor • one general partner of a partnership • one corporate officer • one member of an LLC

READ CAREFULLY BEFORE SIGNING: Under penalty of law, I have answered each of the above questions completely and truthfully. I agree that I am acting solely on behalf of the applicant business and not on behalf of any other individual or entity seeking the license. Further, I agree that the rights and responsibilities conferred by the license(s), if granted, will not be assigned to another individual or entity. I agree to operate this business according to the law, including but not limited to, purchasing alcohol beverages from state authorized wholesalers. I understand that lack of access to any portion of a licensed premises during inspection will be deemed a refusal to allow inspection. Such refusal is a misdemeanor and grounds for revocation of this license. I understand that any license issued contrary to Wis. Stat. Chapter 125 shall be void under penalty of state law. I further understand that I may be prosecuted for submitting false statements and affidavits in connection with this application, and that any person who knowingly provides materially false information on this application may be required to forfeit not more than \$1,000 if convicted.

Last Name Mercado	First Name Stephanie	M.I. M
Title owner	Email smercado118@hotmail.com	Phone (262)408-1301
Signature Smmercado		Date 04/09/25

Part E: For Clerk Use Only

Date Application Was Filed With Clerk	License Number	Date License Granted	Date License Issued
Signature of Clerk/Deputy Clerk		Date Provisional License Issued (if applicable)	

Alcohol Beverage Appointment of Agent

Date: 04/09/25

Agent Type <i>(check one)</i>	
<input checked="" type="checkbox"/> Original (no fee)	<input type="checkbox"/> Successor (\$10 fee for municipal licensees only)

Part A: Business Information	
1. Legal Business Name (individual name if sole proprietor) <u>2 Kids from Stallis LLC</u>	
2. Business Trade Name or DBA <u>Beer Snobs</u>	
3. Entity Type <i>(check one)</i> <input checked="" type="checkbox"/> Limited Liability Company <input type="checkbox"/> Corporation <input type="checkbox"/> Nonprofit Organization	
4. Alcohol Beverage Business Authorization <i>(check one)</i> <input checked="" type="checkbox"/> Municipal Retail License <input type="checkbox"/> State Permit	5. If successor agent, provide State Permit or Municipal Retail License Number
6. Describe the reason for appointing a successor agent, if successor is checked above.	

Part B: Agent Information			
1. Last Name <u>Mercado</u>	2. First Name <u>Stephanie</u>	3. M.I. <u>M</u>	
4. Email <u>smercado118@hotmail.com</u>		5. Phone <u>(262) 408-1301</u>	
6. Home Address <u>5219 Robinwood Lane</u>			
7. City <u>Hales Corners</u>	8. State <u>WI</u>	9. Zip Code <u>53130</u>	10. Age <u>46</u>
11. Drivers License/State ID Number <u>M1023-7937-8908-08</u>		12. Drivers License/State ID, State of Issuance <u>WISCONSIN</u>	

Part C: Agent Questions	
1. Have you satisfied the responsible beverage server training requirement? Submit proof of completion.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Have you completed Form AB-100, <i>Alcohol Beverage Individual Questionnaire</i> (licensee) or Form AB-300, <i>Alcohol Beverage Personal Questionnaire</i> (permittee)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Have you been a Wisconsin resident for at least 90 continuous days? See instructions for exceptions.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Part D: Business Attestation

READ CAREFULLY BEFORE SIGNING: I, the **Undersigned**, authorize the above-named individual to act for the above-named corporation, nonprofit organization, or limited liability company with full authority and control of the premises and of all alcohol beverage activities on such premises. I certify that I am authorized by the above-named entity to authorize this individual to act on behalf of the entity. If I am appointing a successor agent, I rescind all previous agent appointments for this premises. Further, I understand that I may be prosecuted for submitting false statements and affidavits in connection with this application, and that any person who knowingly provides materially false information on this application may be required to forfeit not more than \$1,000 if convicted.

Last Name Mercado	First Name Stephanie	M.I. M
Title owner	Email smercado118@hotmail.com	Phone (212) 468-1301
Signature Smerrado	Date 04/09/25	

Part E: Agent Attestation

READ CAREFULLY BEFORE SIGNING: I, the **Agent**, hereby accept this appointment as agent for the above-named corporation, nonprofit organization, or limited liability company and assume full responsibility for the conduct of all alcohol beverage activities on the premises for the above-named business. I further understand that I may be prosecuted for submitting false statements and affidavits in connection with this application, and that any person who knowingly provides materially false information on this application may be required to forfeit not more than \$1,000 if convicted.

Last Name Mercado	First Name Stephanie	M.I. M
Signature Smerrado	Date 04/09/25	

Alcohol Beverage Individual Questionnaire

Date 04/09/25

All individuals involved in the alcohol beverage business must complete this form, including:

- sole proprietor
- all partners of a partnership
- all officers, directors, and agent of a corporation or nonprofit organization
- members and agent of a limited liability company

Your alcohol beverage application or renewal is not complete until all required Individual Questionnaires are submitted.

Part A: Business Information	
1. Legal Business Name (individual name if sole proprietor) <i>2 kids from stalls</i>	
2. Business Trade Name or DBA <i>Beer snobs</i>	
3. Entity Type (check one)	
<input type="checkbox"/> Sole Proprietor <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Limited Liability Company <input type="checkbox"/> Corporation <input type="checkbox"/> Nonprofit Organization	

Part B: Individual Information			
1. Last Name <i>Mercado</i>	2. First Name <i>Stephanie</i>	3. M.I. <i>M</i>	
4. Relationship to Business (Title) <i>owner</i>	5. Email <i>smercado118@hotmail.com</i>	6. Phone <i>(212) 468-1301</i>	
7. Home Address <i>5219 Robinwood Lane</i>			
8. City <i>Hales Corners</i>	9. State <i>WI</i>	10. Zip Code <i>53130</i>	11. Date of Birth <i>11/08/1978</i>
12. Drivers License/State ID Number <i>ML23-7937-8908-08</i>		13. Drivers License/State ID State of Issuance <i>WISCONSIN</i>	

Part C: Address History							
1. Do you currently reside in Wisconsin? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
If yes to 1 above, how long have you continuously lived in Wisconsin prior to the date of application?			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; text-align: center;">Years <i>46</i></td> <td style="width: 30%; text-align: center;">Months</td> </tr> </table>	Years <i>46</i>	Months		
Years <i>46</i>	Months						
2. List in chronological order all of your addresses within the last 5 years. Attach additional sheets if necessary.							
Previous Address 1 <i>1909 Coldwater Creek</i>	City <i>Waukesha</i>	State <i>WI</i>	Zip Code <i>53188</i>				
Previous Address 2	City	State	Zip Code				
Previous Address 3	City	State	Zip Code				
Previous Address 4	City	State	Zip Code				
Previous Address 5	City	State	Zip Code				
3. List all states and counties you have lived in as an adult. Attach additional sheets if necessary.							
State <i>WI</i>	County <i>Milwaukee</i>	State <i>WI</i>	County <i>Waukesha</i>	State	County	State	County
State	County	State	County	State	County	State	County

Part D: Criminal History

1. Have you ever been convicted of any offenses (excluding traffic offenses unless related to alcohol beverages) for violation of any federal, Wisconsin, or another state's laws or of any county or municipal ordinances? Yes No
 If yes to question 1, please list details of each conviction below. Attach additional sheets as needed.

Law/Ordinance Violated	Location	Conviction Date
Penalty Imposed		Was sentence completed? <input type="checkbox"/> Yes <input type="checkbox"/> No
Law/Ordinance Violated	Location	Conviction Date
Penalty Imposed		Was sentence completed? <input type="checkbox"/> Yes <input type="checkbox"/> No
Law/Ordinance Violated	Location	Conviction Date
Penalty Imposed		Was sentence completed? <input type="checkbox"/> Yes <input type="checkbox"/> No

2. Are charges for any offenses currently pending against you (excluding traffic offenses unless related to alcohol beverages) for violation of any federal, Wisconsin, or another state's laws or any county or municipal ordinances? Yes No
 If yes to question 2, describe nature and status of pending charges using the space below. Attach additional sheets as needed.

Part E: Attestation

READ CAREFULLY BEFORE SIGNING: Under penalty of law, I have answered each of the above questions completely and truthfully. I certify that I am not prohibited from participating in this business due to any involvement in another tier of the alcohol beverage industry as a restricted investor. I understand that any license issued contrary to Wis. Stat. Chapter 125 shall be void under penalty of state law. I further understand that I may be prosecuted for submitting false statements and affidavits in connection with this application, and that any person who knowingly provides materially false information on this application may be required to forfeit not more than \$1,000 if convicted.

Signature Smercaow Date 04/09/25



WISCONSIN DEPARTMENT OF REVENUE
PO BOX 8902
MADISON, WI 53708-8902

Contact Information:

2135 RIMROCK RD PO BOX 8902
MADISON, WI 53708-8902
ph: 608-266-2776 fax: 608-264-6884
email: DORBusinessTax@revenue.wi.gov
website: revenue.wi.gov

Letter ID L1064682592

BEER SNOBS INC
P.O. BOX 559
HARTLAND WI 53029

Wisconsin Department of Revenue Seller's Permit

Legal/real name: BEER SNOBS INC
Business name: BEER SNOBS ALES AND EATS
122 COTTONWOOD AVENUE
HARTLAND WI 53029

- This certificate confirms you are registered with the Wisconsin Department of Revenue and authorized in the business of selling tangible personal property and taxable services.
- You may not transfer this permit.
- This permit must be displayed at the place of business and is not valid at any other location.
- If your business is not operated from a fixed location, you must carry or display this permit at all events.

Tax Type

Account Type

Account Number

Sales & Use Tax

Seller's Permit

456-1028806890-02



**DEPARTMENT OF BUILDING INSPECTION
APPLICATION FOR ARCHITECTURAL BOARD**

Job Address				
Lot	Block	Subdivision	Key No. HAV	
Owner		EMAIL	Phone	
Address		City	State	Zip
Contractor		Phone	FAX	EMAIL
Address		City	State	Zip

The Architectural Board meets on the THIRD MONDAY of the Month at 6:30 p.m. in the Board Room of the Hartland Municipal Building located at 210 Cottonwood Avenue in the Village of Hartland.

The DEADLINE for filing is FIFTEEN WORKING DAYS PRIOR TO THE MEETING DATE at 4:30 p.m. All of the following information must be received prior to the deadline in order to be placed on the agenda.

All applications for consideration by the Architectural Board are subject to the policies described in this document.

Commercial/Industrial/Multifamily:

One (1) bound set of plans and application material and one (1) electronic copy of all submittals.

Elevations must show all sides of the structure and state the building materials and colors. Additions must be shown with the existing building.

Signs:

One (1) color rendering of the requested sign(s) and one (1) electronic copy of all submittals. Include colors and material type. Renderings are to be dimensioned and must show placement on building and height.

Details (color picture) of all existing wall signs on the same building elevation. A photograph of the building with sign location shown is recommended.

One (1) site plan with dimensions. Not required for wall signs or other signs attached to the building.

One (1) set of lighting details. Include type, location, number and photometric plan.

Submit Sign Permit Application

NOTE: Approval by the Architectural Board is not permission to begin construction; a building permit must first be obtained.

Date Applied: 03/28/2025 Date of Meeting: 04/21/2025 Item No. _____

**Hartland Architectural Board
Application Review Policies**

All applicants and applications are subject to the following policies in order to be considered by the Architectural Board.

1. The deadline for filing any application is a minimum of fifteen (15) working days before the meeting.
2. All applicants for building renovations are encouraged to communicate with or meet with the Building and Zoning Official and the Village Administrator prior to submission of an application.
3. Applications for signs within the boundaries of the Hartland Downtown Business Improvement District (BID) must be reviewed by the BID prior to the meeting with the Architectural Board.
4. All requested or required information, including the application and appropriate fees, must be received prior to the deadline in order to be placed on the agenda. Village Staff has been directed to delay placement on the Architectural Board Agenda based on incomplete submittals.
5. Applications shall include professional-level drawings of all elevations impacted by the proposed project showing the proposed conditions including location and depiction of requested signage.
6. Applications for signage on existing buildings should include a scale depiction of the sign on a current photograph of the existing building.
7. One (1) set of application materials and one (1) electronic copy (PDF) of all application materials must be submitted by the deadline.
8. Applications that include site plans must depict the following existing and proposed information plus other information as appropriate or as requested:
 - a. Complete dimensions (lot, building, setbacks, parking, drives, etc.)
 - b. Scale and north arrow
 - c. All structures (include building elevations and height)
 - d. Drainage and grades (include design calculations for drainage)
 - e. Storm Water Management Plan
 - f. Utilities and easements (sewer, water, storm etc.)
 - g. Calculation of lot coverage
 - h. Parking stalls (stalls to be minimum 180 s.f., driving lanes minimum 24 ft. wide and 30 ft. maximum at street right-of-way, asphalt to be minimum 3 ft. from lot lines)
 - i. Grading and erosion control
 - j. Landscaping, including a Tree Protection Plan
 - k. Exterior lighting details
 - l. Exterior HVAC equipment location
 - m. Dumpster location (screening required)
 - n. Street right-of-way
 - o. Miscellaneous items including, but not limited to, 100 year floodplain, wetland boundary, environmental corridor
9. Additional information may be requested by the Architectural Board or Staff.
10. The Applicant must complete and submit the required Professional Services Reimbursement Form along with any required deposit at the time of application.
11. The Applicant or a representative of Applicant able to make representations on behalf of the Applicant shall attend the meeting at which the matter will be discussed. Failure to have representation will result in tabling of the request to the next meeting.



APPLICATION FOR PLAN COMMISSION

REVIEW FEE DUE AT TIME OF APPLICATION - \$300

INITIAL CONCEPTUAL REVIEW - (NO FEE)

Project Description and Narrative: (attach additional sheet if necessary)			
Proposed Use			
Project Location			
Project Name			
Owner		Phone	
Address		City	State Zip
Engineer/Architect		Phone	FAX
Address		City	State Zip
Contact Person	Phone	FAX	E-mail

The Plan Commission meets on the third Monday of the Month at 6:30 PM in the Village Board Room of the Hartland Municipal Building located at 210 Cottonwood Avenue, Hartland.

The deadline for filing is a minimum of fifteen (15) working days before the meeting.

All of the requested information must be received prior to the deadline in order to be placed on the agenda. Village Plan Review Staff has been directed to delay placement on the Plan Commission Agenda based on incomplete submittals.

One (1) set of bound application materials and one (1) electronic copy of all materials must be submitted.

Applications that include site plans must depict the following existing and proposed information:

- Complete dimensions (lot, building, setbacks, parking, drives, etc.)
- Scale and north arrow
- All structures (include building elevations and height)
- Drainage and grades (include design calculations for drainage)
- Storm Water Management Plan
- Utilities and easements (sewer, water, storm etc.)
- Calculation of lot coverage
- Parking stalls (stalls to be minimum 180 s.f., driving lanes minimum 24 ft. wide and 30 ft. maximum at street right-of-way, asphalt to be minimum 3 ft. from lot lines)
- Grading and erosion control
- Landscaping, including a Tree Protection Plan
- Exterior lighting details
- Exterior HVAC equipment location
- Dumpster location (screening required)
- Street right-of-way
- Miscellaneous, 100 year floodplain, wetland boundary, environmental corridor

Additional information may be requested by the Plan Commission or Staff.

All applications for consideration by the Plan Commission are subject to the policies described in this document.

**Hartland Plan Commission
Application Review Policies**

All applicants and applications are subject to the following policies in order to be considered by the Plan Commission.

1. The deadline for filing any application is a minimum of fifteen (15) working days before the meeting.
2. All applicants are encouraged to communicate with or meet with either the Building and Zoning Official or the Village Administrator prior to submission of an application.
3. All requested or required information, including the application and appropriate fees, must be received prior to the deadline in order to be placed on the agenda. Village Staff has been directed to delay placement on the Plan Commission Agenda based on incomplete submittals.
4. One (1) sets of bound site plans or application materials and one (1) electronic copy (PDF) of all application materials must be submitted by the deadline.
5. Applications that include site plans must depict the following existing and proposed information plus other information as appropriate or as requested:
 - a. Complete dimensions (lot, building, setbacks, parking, drives, etc.)
 - b. Scale and north arrow
 - c. All structures (include building elevations and height)
 - d. Drainage and grades (include design calculations for drainage)
 - e. Storm Water Management Plan
 - f. Utilities and easements (sewer, water, storm etc.)
 - g. Calculation of lot coverage
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 - i. Grading and erosion control
 - j. Landscaping, including a Tree Protection Plan
 - k. Exterior lighting details
 - l. Exterior HVAC equipment location
 - m. Dumpster location (screening required)
 - n. Street right-of-way
 - o. Miscellaneous items including, but not limited to, 100 year floodplain, wetland boundary, environmental corridor
6. Additional information may be requested by the Plan Commission or Staff.
7. The Applicant must complete and submit the required Professional Services Reimbursement Form along with any required deposit at the time of application.
8. **The Applicant or a representative of Applicant able to make representations on behalf of the Applicant shall attend the meeting at which the matter will be discussed. Failure to have representation will result in tabling of the request to the next meeting.**

RE: Lake Country Lutheran - Plan Commission & ARB Submittal



Ryan Amtmann <ramtmann@ruekert-mielke.com>

To Sandee Policello; Scott Hussinger; Ryan Bailey; Tom Jenson

Follow up. Start by Wednesday, April 16, 2025. Due by Wednesday, April 16, 2025.
You replied to this message on 4/16/2025 10:23 AM.

This message is part of a tracked conversation. [Click here to find all related messages](#) or to open the original flagged message.

☺ Reply Reply All Forward 📧 ⋮

Mon 4/14/2025 5:18 PM

I had just a few comments regarding the LCL expansion project. Does anyone have anything to add?

Ryan

Village Engineer Comments

Stormwater Management Plan

1. Ryan A requested the LCL engineering team to update its stormwater management plan letter report dated March 24, 2025, to include TSS and Phosphorus modeling results for the entire LCL site. The LCL engineering team will be making these updates.

Site Plan

1. Is there a reason not to extend the sidewalk as shown in red to eliminate 2 crossings of traffic lanes for pedestrians?
2. Do the number of ADA stalls comply with that which is necessary for the expanded use?



Sound Stormwater Design LLC



March 24, 2025

Mr. Ryan Bailey
Village Manager
Village of Hartland
210 Cottonwood Avenue
Hartland, Wisconsin 53029

SUBJECT: Lake Country Lutheran High School
Stormwater Summary Letter

Dear Ryan:

Lake Country Lutheran High School is planning to construct a building addition and two parking lot expansions at its existing campus, located at 401 Campus Drive in the Village of Hartland, Waukesha County, Wisconsin. The purpose of this letter is to summarize the stormwater-related impacts of these additions and to demonstrate that the proposed development will remain in compliance with the Village of Hartland and the Wisconsin Department of Natural Resources (WDNR) stormwater management requirements.

Several Stormwater Management Reports (SWMP) have been prepared for the Lake Country Lutheran High School campus, beginning with the initial development plan in February 2005 and most recently updated in a letter dated May 22, 2020. These previous reports accounted for future building and parking lot expansions by incorporating impervious placeholders surrounding the original school development. Please refer to Proposed Hydrology Exhibit H-2 for further details.

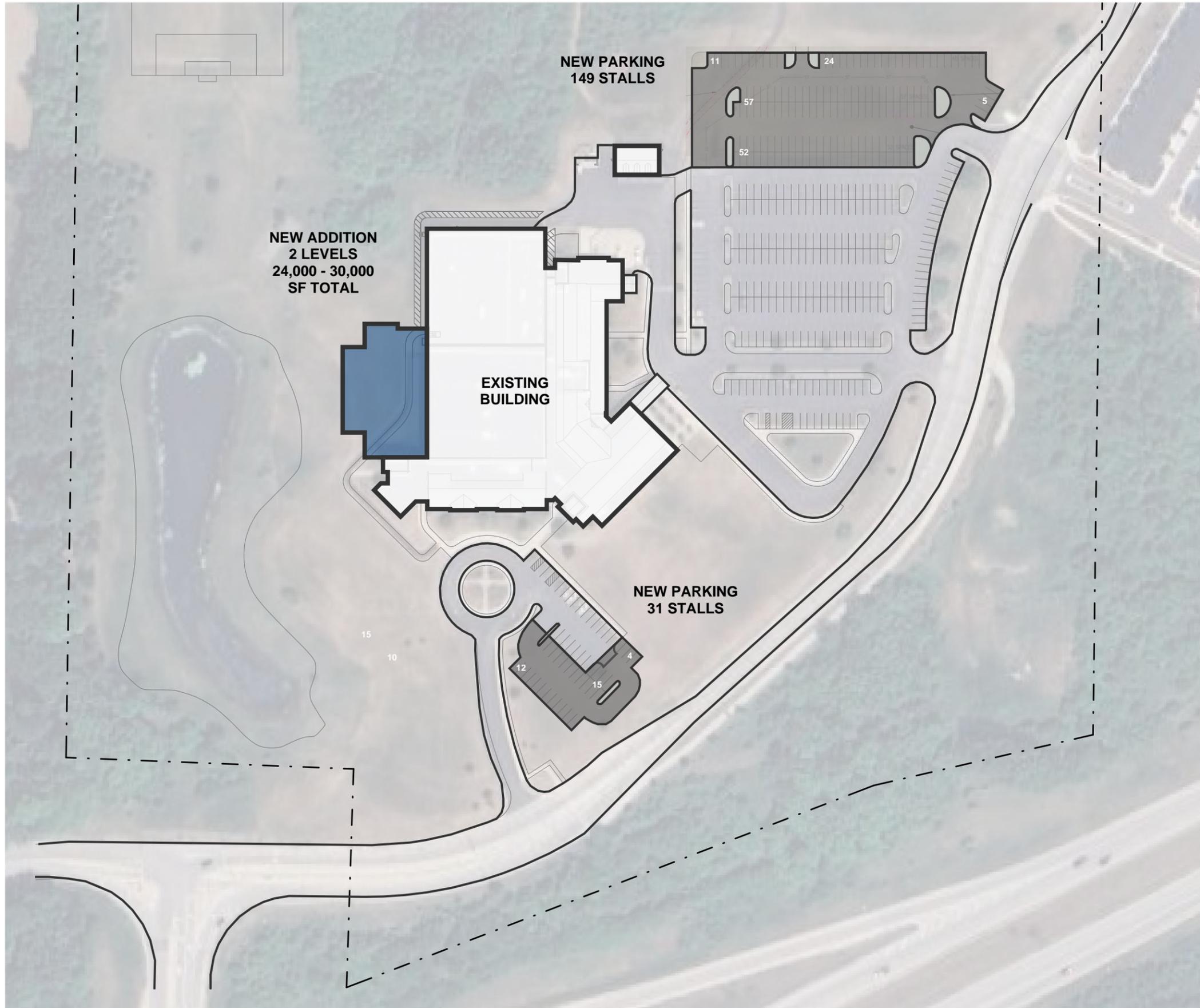
The proposed additions outlined in this stormwater summary letter will affect Area G, which is the primary subarea tributary to Pond 1. According to the February 2005 report, Area G was designed with an anticipated impervious buildout of 14.63 acres. Current conditions, based on survey data and aerial photography, indicate that the total impervious area (including the water surface of Pond 1) amounts to about 10.42 acres. The planned building and parking lot additions will include approximately 1.75 acres of additional impervious surface area, bringing the total impervious area for Area G to 12.17 acres.

Since the added impervious area remains within the originally designed capacity of Pond 1, no additional stormwater management features are required. The Lake Country Lutheran High School campus will continue to maintain compliance with the stormwater management requirements set forth by the Village of Hartland and the WDNR. Should you have any questions, please feel free to contact me at (414) 687-1938.

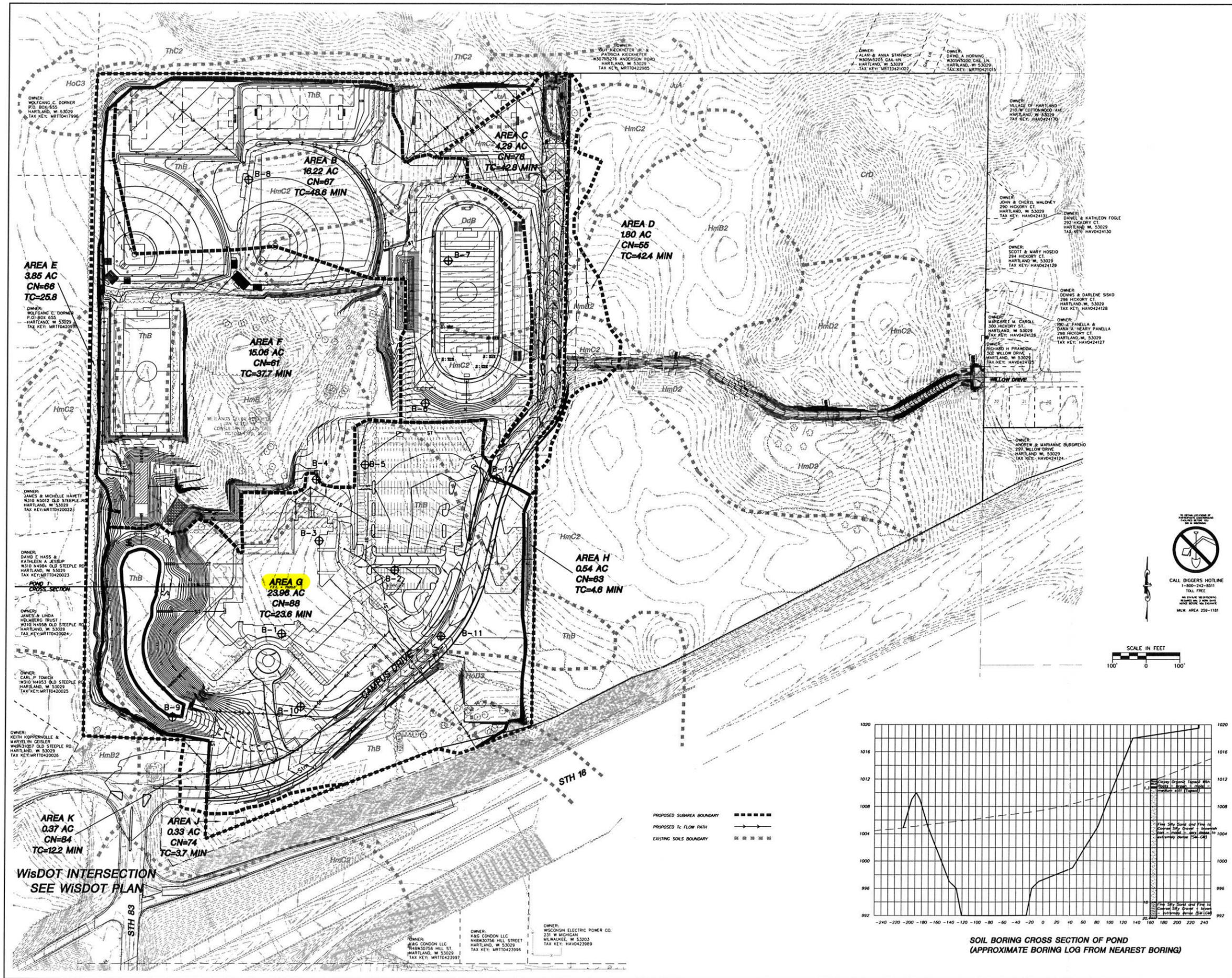
Sincerely,

Jayme Sisel, P.E.

2025 Proposed Site Improvements



2008 Proposed Hydrology Exhibit



JSD Professional Services, Inc.
 Engineers • Surveyors • Planners

- PLANNING & DEVELOPMENT
- WETLANDS SITE ENGINEERING
- TRANSPORTATION ENGINEERING
- WATER RESOURCES
- LANDSCAPE ARCHITECTURE
- CONSTRUCTION SERVICES
- SURVEYING & MAPPING

MILWAUKEE REGIONAL OFFICE
 N22 W22931 Nancy Court Suite 3
 Waukesha, Wisconsin 53186
 (262) 313-0666

MADISON REGIONAL OFFICE
 161 Horizon Drive
 Suite 101
 Verona, Wisconsin 53593
 (608) 848-5060

PREPARED FOR:

PROJECT
LAKE COUNTRY LUTHERAN HIGH SCHOOL
 HARTLAND, WI



CALL DIGGERS HOTLINE
 1-800-242-8511
 TOLL FREE
 We have signposts
 throughout the state
 and will locate them
 M/W AREA 250-1181

ITEM	DATE
Design: JNP	06-19-08
Draft: JNP	06-19-08
Approved: PSM	06-19-08
SUBMITTED FOR APPROVAL:	07-28-08

SEAL/SIGNATURE

ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE PLANS AND CHECKING THEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL DETAIL AND DIMENSIONS OF THEIR TRADE AND BE RESPONSIBLE FOR THE SAME.

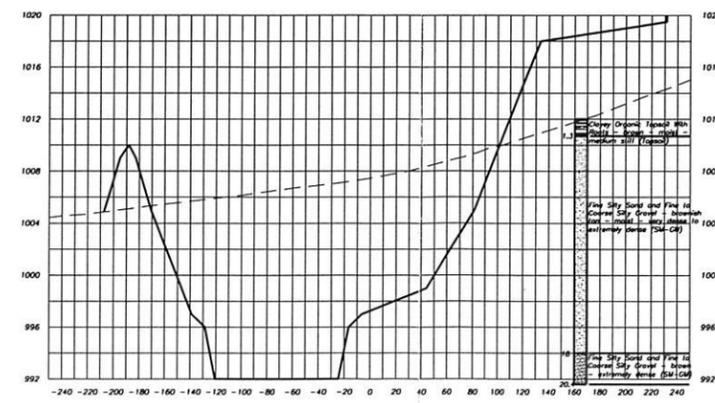
THESE PLANS AND DESIGNS ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF JSD PROFESSIONAL SERVICES, INC.

PROPOSED HYDROLOGY EXHIBIT

SHEET NUMBER
H-2

JSD PROJECT NUMBER
 04C1648

SCALE
 1"=100'



SOIL BORING CROSS SECTION OF POND
 (APPROXIMATE BORING LOG FROM NEAREST BORING)

PROPOSED SUBAREA BOUNDARY ————
 PROPOSED FLOW PATH ————
 EXISTING SOILS BOUNDARY ————

WisDOT INTERSECTION
 SEE WISDOT PLAN

AREA K
 0.37 AC
 CN=84
 TC=122 MIN

AREA J
 0.33 AC
 CN=74
 TC=37 MIN

AREA G
 23.96 AC
 CN=88
 TC=23.6 MIN

AREA F
 15.06 AC
 CN=61
 TC=37.7 MIN

AREA E
 3.85 AC
 CN=66
 TC=25.8

AREA B
 16.22 AC
 CN=67
 TC=48.6 MIN

AREA C
 1.29 AC
 CN=78
 TC=42.8 MIN

AREA D
 1.80 AC
 CN=55
 TC=42.4 MIN

AREA H
 0.54 AC
 CN=83
 TC=4.6 MIN

OWNER: WOLFGANG C. DOMER
 P.O. BOX 653
 HARTLAND, WI 53029
 TAX KEY: WRT10417996

OWNER: JAMES & MICHELLE HAVETT
 2310 N5012 OLD STEEPLER RD
 HARTLAND, WI 53029
 TAX KEY: WRT10420022

OWNER: JAMES & LINDA HOLMBERG TRUST
 2310 N5058 OLD STEEPLER RD
 HARTLAND, WI 53029
 TAX KEY: WRT10420024

OWNER: CARL P. TOMICH
 2310 N5053 OLD STEEPLER RD
 HARTLAND, WI 53029
 TAX KEY: WRT10420025

OWNER: KETH KOPPEWOLLE & MARIE W. COOLER
 2310 N5057 OLD STEEPLER RD
 HARTLAND, WI 53029
 TAX KEY: WRT10420026

OWNER: RAC CONDON LLC
 1450 N 30756 HILL ST
 HARTLAND, WI 53029
 TAX KEY: WRT10423997

OWNER: RAC CONDON LLC
 1450 N 30756 HILL STREET
 HARTLAND, WI 53029
 TAX KEY: WRT10423996

OWNER: WISCONSIN ELECTRIC POWER CO.
 231 W MICHIGAN
 MILWAUKEE, WI 53203
 TAX KEY: HAV0423989

OWNER: BUT KEOCHER JR & PATRICIA KEOCHER
 4300 N 2776 ANDERSON ROAD
 HARTLAND, WI 53029
 TAX KEY: WRT10423985

OWNER: ALAN & ANNA STANWICK
 4300 N 2776 ANDERSON ROAD
 HARTLAND, WI 53029
 TAX KEY: WRT10423985

OWNER: DAVID A. HORNUNG
 4300 N 2776 ANDERSON ROAD
 HARTLAND, WI 53029
 TAX KEY: WRT10423985

OWNER: VILLAGE OF HARTLAND
 210 W CENTERWOOD AVE
 HARTLAND, WI 53029
 TAX KEY: HAV0424170

OWNER: JOHN & CHERYL MALONEY
 290 HICKORY CT
 HARTLAND, WI 53029
 TAX KEY: HAV0424131

OWNER: SCOTT & MARY HOSEJO
 294 HICKORY CT
 HARTLAND, WI 53029
 TAX KEY: HAV0424129

OWNER: DENNIS & DARLENE SSKO
 298 HICKORY CT
 HARTLAND, WI 53029
 TAX KEY: HAV0424128

OWNER: MARGARET M. CAROLL
 300 HICKORY ST
 HARTLAND, WI 53029
 TAX KEY: HAV0424126

OWNER: RICHARD H. PRANDON
 302 WILLOW DRIVE
 HARTLAND, WI 53029
 TAX KEY: HAV0424127

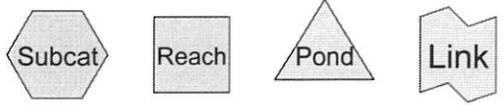
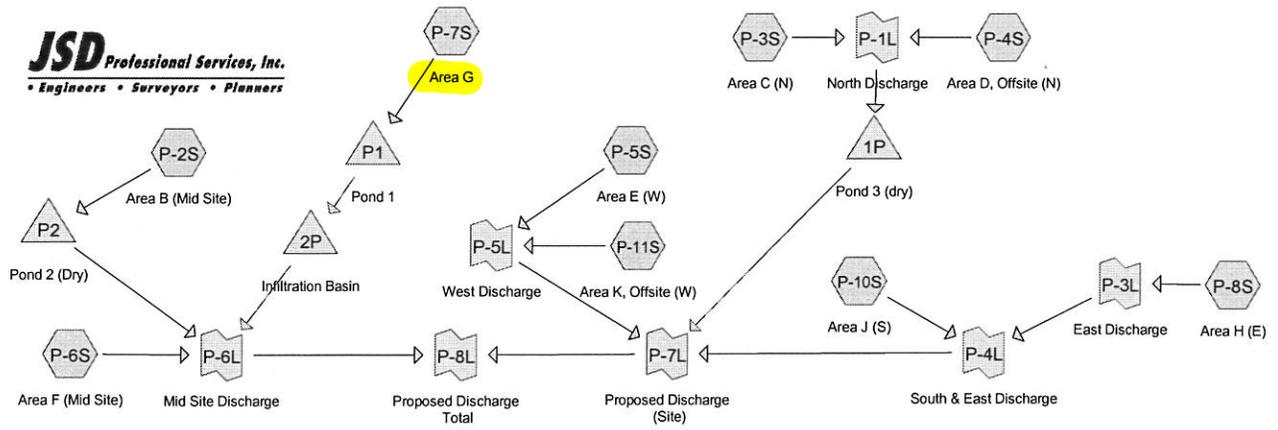
OWNER: ANDREW & MARIANNE BURROEN
 297 WILLOW DRIVE
 HARTLAND, WI 53029
 TAX KEY: HAV0424124

OWNER: DANIEL & KATHLEEN FOGLE
 292 HICKORY CT
 HARTLAND, WI 53029
 TAX KEY: HAV0424130

OWNER: JANE & HEARY PANELLA
 298 HICKORY CT
 HARTLAND, WI 53029
 TAX KEY: HAV0424127

2008 Proposed Hydrologic Analysis

JSD Professional Services, Inc.
 • Engineers • Surveyors • Planners



Drainage Diagram for 04C1648 - Proposed (06-19-08)
 Prepared by Jenkins Survey and Design, Printed 7/29/2008
 HydroCAD® 8.50 s/n 002918 © 2007 HydroCAD Software Solutions LLC

04C1648 - Proposed (06-19-08)

Prepared by Jenkins Survey and Design

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Printed 7/29/2008

Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.920	55	Woods, Good, HSG B (P-4S,P-8S)
7.650	58	Woods/grass comb., Good, HSG B (P-6S)
18.910	61	>75% Grass cover, Good, HSG B (P-2S,P-3S,P-5S,P-6S,P-7S,P-8S)
4.340	72	Woods/grass comb., Good, HSG C (P-6S,P-8S)
15.620	74	>75% Grass cover, Good, HSG C (P-10S,P-11S,P-2S,P-5S,P-7S)
17.980	98	(P-11S,P-2S,P-3S,P-6S,P-7S)
66.420		TOTAL AREA

04C1648 - Proposed (06-19-08)

Prepared by Jenkins Survey and Design

HydroCAD® 8.50 s/n 002918 © 2007 HydroCAD Software Solutions LLC

Printed 7/29/2008

Page 3

Soil Listing (all nodes)

Area (acres)	Soil Goup	Subcatchment Numbers
0.000	HSG A	
28.480	HSG B	P-2S, P-3S, P-4S, P-5S, P-6S, P-7S, P-8S
19.960	HSG C	P-10S, P-11S, P-2S, P-5S, P-6S, P-7S, P-8S
0.000	HSG D	
17.980	Other	P-11S, P-2S, P-3S, P-6S, P-7S
66.420		TOTAL AREA

Time span=5.00-36.00 hrs, dt=0.05 hrs, 621 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment P-10S: Area J (S)	Runoff Area=0.330 ac 0.00% Impervious Runoff Depth=0.65" Flow Length=52' Tc=3.7 min CN=74 Runoff=0.39 cfs 0.018 af
Subcatchment P-11S: Area K, Offsite (W)	Runoff Area=0.370 ac 40.54% Impervious Runoff Depth=1.17" Flow Length=80' Slope=0.0250 '/' Tc=12.2 min CN=84 Runoff=0.61 cfs 0.036 af
Subcatchment P-2S: Area B (Mid Site)	Runoff Area=16.220 ac 6.17% Impervious Runoff Depth=0.39" Flow Length=1,009' Tc=48.6 min CN=67 Runoff=2.60 cfs 0.522 af
Subcatchment P-3S: Area C (N)	Runoff Area=4.290 ac 39.63% Impervious Runoff Depth=0.74" Flow Length=412' Slope=0.0160 '/' Tc=42.8 min CN=76 Runoff=1.91 cfs 0.264 af
Subcatchment P-4S: Area D, Offsite (N)	Runoff Area=1.800 ac 0.00% Impervious Runoff Depth=0.10" Flow Length=150' Slope=0.0432 '/' Tc=42.4 min CN=55 Runoff=0.02 cfs 0.014 af
Subcatchment P-5S: Area E (W)	Runoff Area=3.850 ac 0.00% Impervious Runoff Depth=0.35" Flow Length=180' Slope=0.0194 '/' Tc=25.8 min CN=66 Runoff=0.83 cfs 0.114 af
Subcatchment P-6S: Area F (Mid Site)	Runoff Area=15.060 ac 3.32% Impervious Runoff Depth=0.30" Flow Length=493' Tc=37.7 min CN=64 Runoff=1.83 cfs 0.371 af
Subcatchment P-7S: Area G	Runoff Area=23.960 ac 61.06% Impervious Runoff Depth=1.44" Flow Length=1,120' Tc=23.6 min CN=88 Runoff=34.75 cfs 2.878 af
Subcatchment P-8S: Area H (E)	Runoff Area=0.540 ac 0.00% Impervious Runoff Depth=0.27" Flow Length=34' Slope=0.2400 '/' Tc=4.6 min CN=63 Runoff=0.18 cfs 0.012 af
Pond 1P: Pond 3 (dry)	Peak Elev=993.26' Storage=2,133 cf Inflow=1.92 cfs 0.278 af Discarded=0.15 cfs 0.071 af Primary=0.98 cfs 0.207 af Secondary=0.00 cfs 0.000 af Outflow=1.13 cfs 0.278 af
Pond 2P: Infiltration Basin	Peak Elev=998.20' Storage=17,300 cf Inflow=2.69 cfs 2.516 af Discarded=0.81 cfs 1.488 af Primary=1.75 cfs 0.903 af Secondary=0.00 cfs 0.000 af Outflow=2.55 cfs 2.391 af
Pond P1: Pond 1	Peak Elev=998.21' Storage=72,015 cf Inflow=34.75 cfs 2.878 af 12.0" x 80.0' Culvert Outflow=2.69 cfs 2.516 af
Pond P2: Pond 2 (Dry)	Peak Elev=1,002.08' Storage=744 cf Inflow=2.60 cfs 0.522 af 15.0" x 30.0' Culvert Outflow=2.57 cfs 0.522 af
Link P-1L: North Discharge	Inflow=1.92 cfs 0.278 af Primary=1.92 cfs 0.278 af
Link P-3L: East Discharge	Inflow=0.18 cfs 0.012 af Primary=0.18 cfs 0.012 af
Link P-4L: South & East Discharge	Inflow=0.55 cfs 0.030 af Primary=0.55 cfs 0.030 af

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Type II 24-hr 2-yr Rainfall=2.57"

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Link P-5L: West Discharge

Inflow=1.05 cfs 0.150 af
Primary=1.05 cfs 0.150 af

Link P-6L: Mid Site Discharge

Inflow=4.23 cfs 1.795 af
Primary=4.23 cfs 1.795 af

Link P-7L: Proposed Discharge (Site)

Inflow=1.63 cfs 0.387 af
Primary=1.63 cfs 0.387 af

Link P-8L: Proposed Discharge Total

Inflow=5.71 cfs 2.182 af
Primary=5.71 cfs 2.182 af

Total Runoff Area = 66.420 ac Runoff Volume = 4.228 af Average Runoff Depth = 0.76"
72.93% Pervious = 48.440 ac 27.07% Impervious = 17.980 ac

Summary for Subcatchment P-10S: Area J (S)

[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 0.39 cfs @ 11.95 hrs, Volume= 0.018 af, Depth= 0.65"

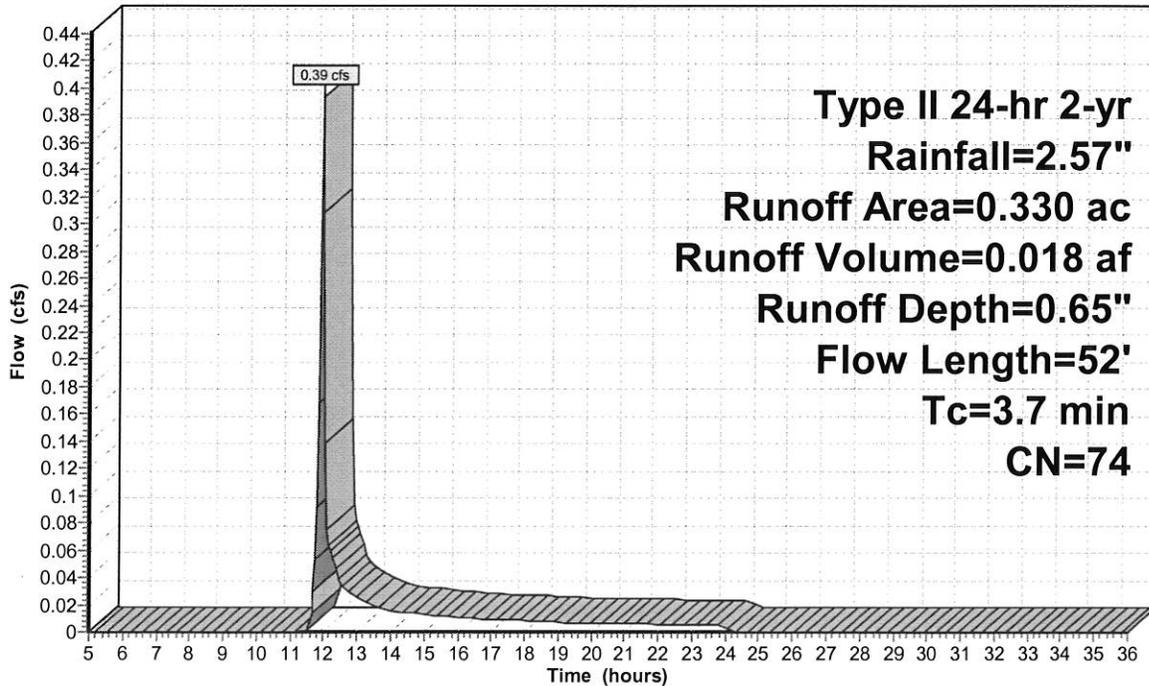
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, $dt= 0.05$ hrs
 Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
0.330	74	>75% Grass cover, Good, HSG C
0.330		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.6	40	0.0500	0.18		Sheet Flow, grass Grass: Short $n= 0.150$ $P2= 2.57"$
0.1	12	0.0340	2.97		Shallow Concentrated Flow, grass Unpaved $K_v= 16.1$ fps
3.7	52	Total			

Subcatchment P-10S: Area J (S)

Hydrograph



Summary for Subcatchment P-11S: Area K, Offsite (W)

Runoff = 0.61 cfs @ 12.04 hrs, Volume= 0.036 af, Depth= 1.17"

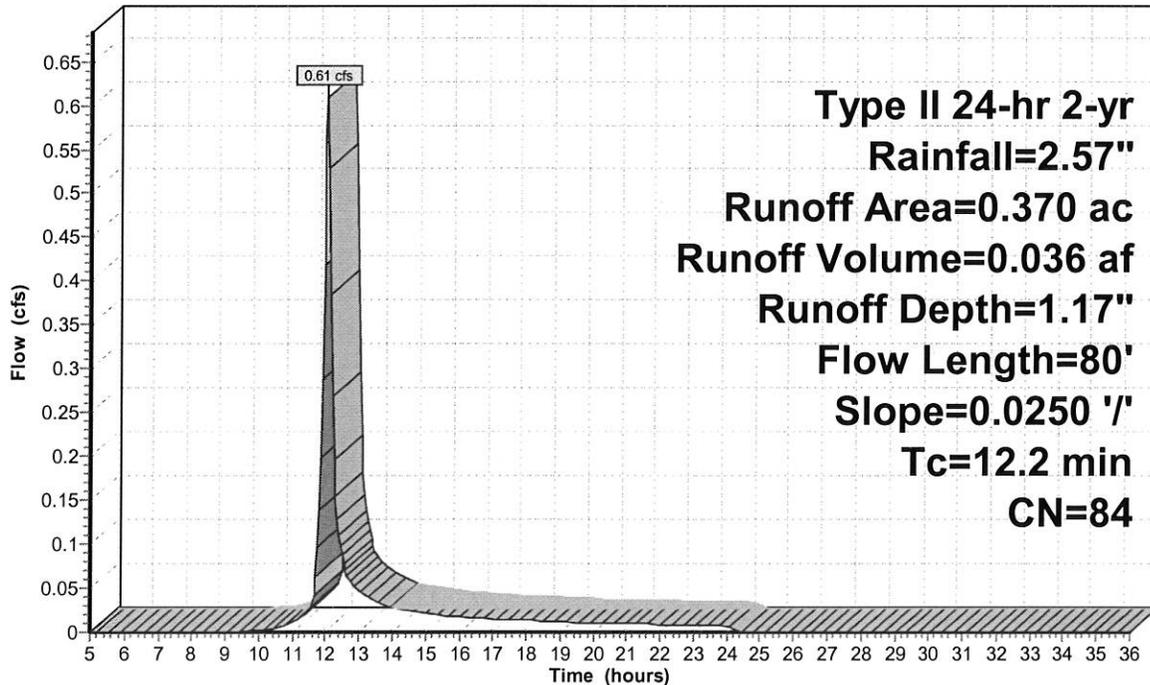
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
0.220	74	>75% Grass cover, Good, HSG C
* 0.150	98	
0.370	84	Weighted Average
0.220		Pervious Area
0.150		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	80	0.0250	0.11		Sheet Flow, grass Grass: Dense n= 0.240 P2= 2.57"

Subcatchment P-11S: Area K, Offsite (W)

Hydrograph



Summary for Subcatchment P-2S: Area B (Mid Site)

Runoff = 2.60 cfs @ 12.60 hrs, Volume= 0.522 af, Depth= 0.39"

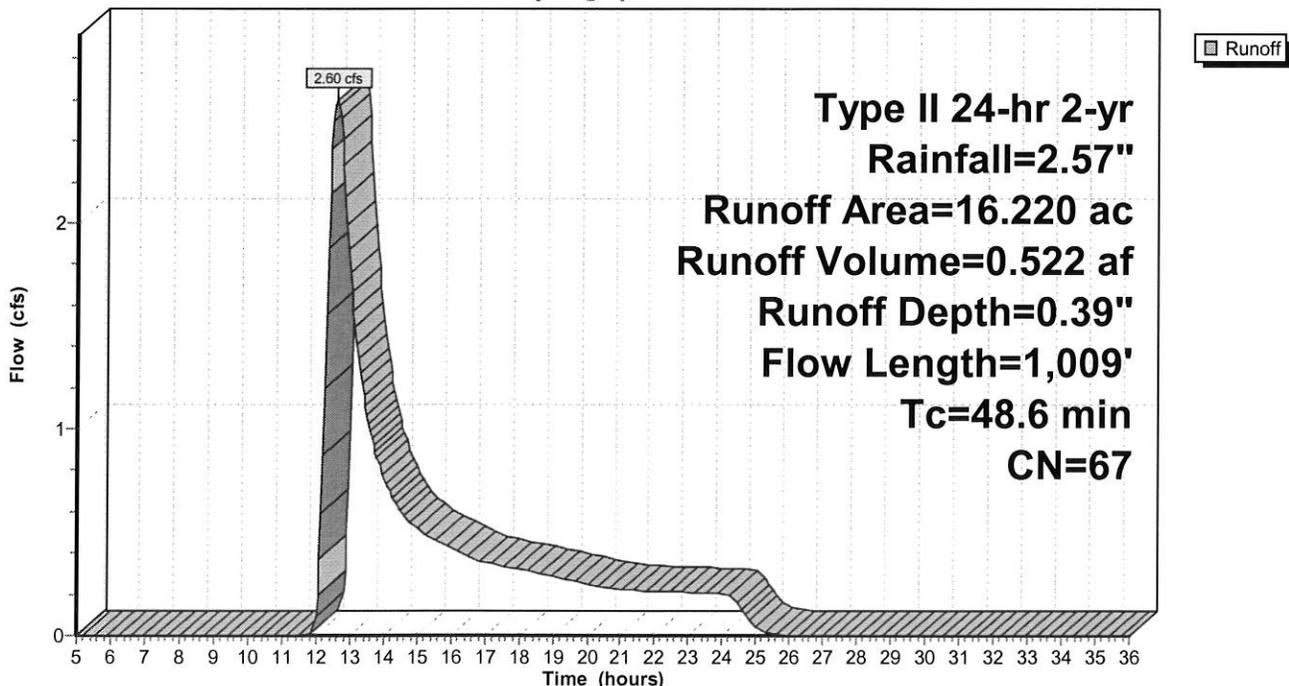
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
10.000	61	>75% Grass cover, Good, HSG B
* 1.000	98	
5.220	74	>75% Grass cover, Good, HSG C
16.220	67	Weighted Average
15.220		Pervious Area
1.000		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
43.0	300	0.0150	0.12		Sheet Flow, Soccer Field Grass: Dense n= 0.240 P2= 2.57"
5.6	709	0.0169	2.09		Shallow Concentrated Flow, shallow conentrated Unpaved Kv= 16.1 fps
48.6	1,009	Total			

Subcatchment P-2S: Area B (Mid Site)

Hydrograph



Summary for Subcatchment P-3S: Area C (N)

Runoff = 1.91 cfs @ 12.44 hrs, Volume= 0.264 af, Depth= 0.74"

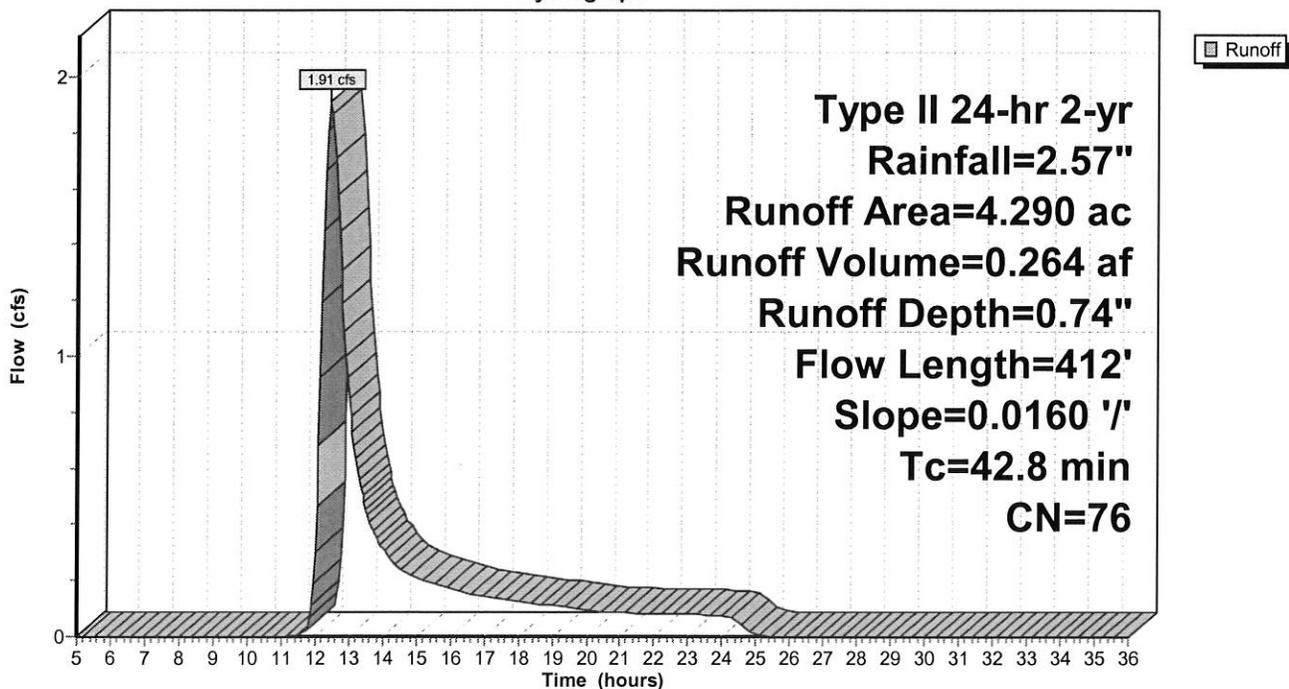
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
2.590	61	>75% Grass cover, Good, HSG B
* 1.700	98	
4.290	76	Weighted Average
2.590		Pervious Area
1.700		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
41.9	300	0.0160	0.12		Sheet Flow, Soccer Field Grass: Dense n= 0.240 P2= 2.57"
0.9	112	0.0160	2.04		Shallow Concentrated Flow, Soccer Field Unpaved Kv= 16.1 fps
42.8	412	Total			

Subcatchment P-3S: Area C (N)

Hydrograph



Summary for Subcatchment P-4S: Area D, Offsite (N)

Runoff = 0.02 cfs @ 13.27 hrs, Volume= 0.014 af, Depth= 0.10"

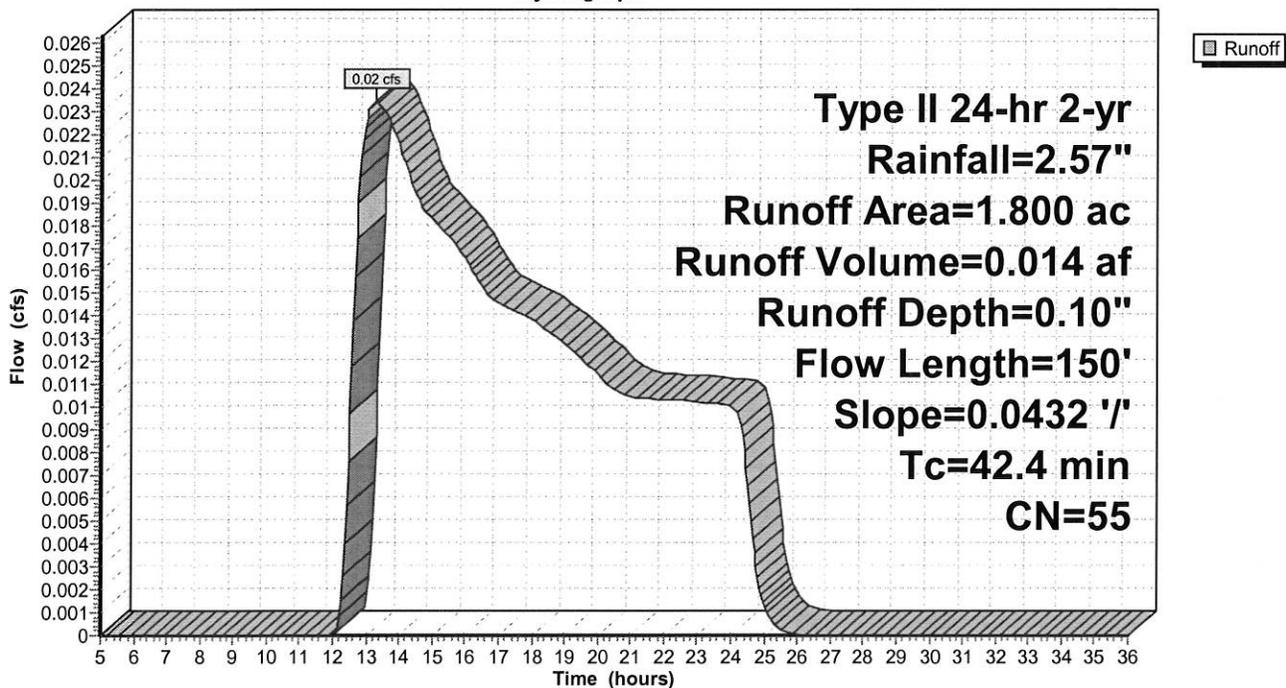
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
1.800	55	Woods, Good, HSG B
1.800		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.4	150	0.0432	0.06		Sheet Flow, Woods Woods: Dense underbrush n= 0.800 P2= 2.57"

Subcatchment P-4S: Area D, Offsite (N)

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.57"

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Summary for Subcatchment P-5S: Area E (W)

Runoff = 0.83 cfs @ 12.26 hrs, Volume= 0.114 af, Depth= 0.35"

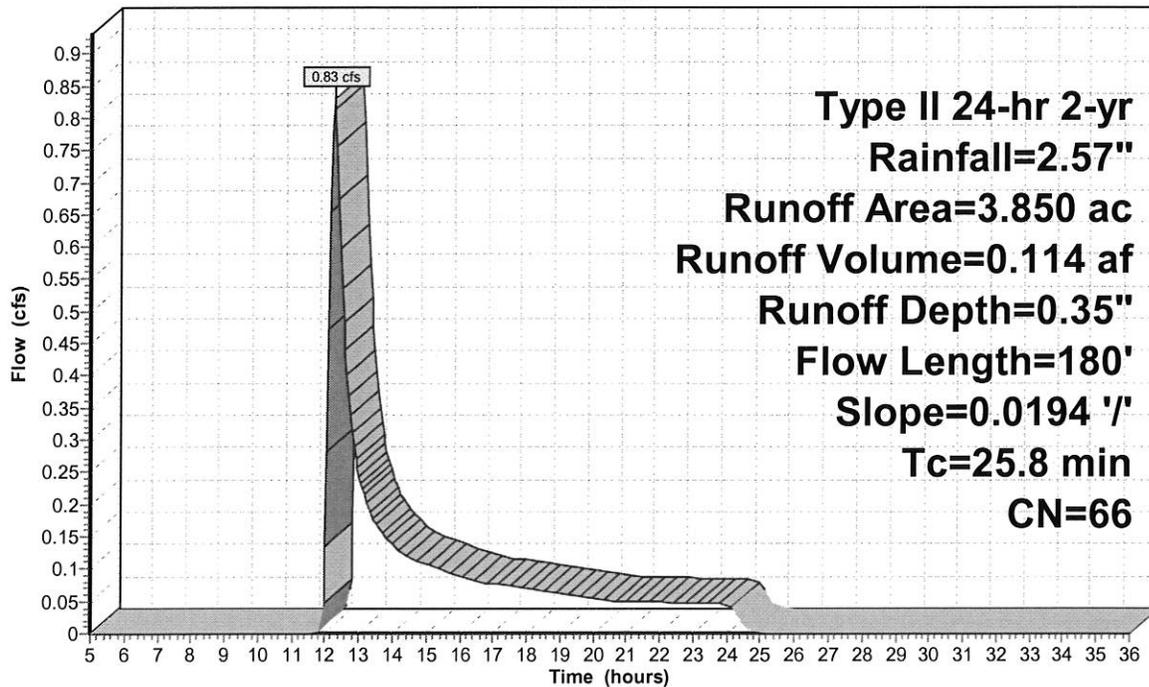
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
2.330	61	>75% Grass cover, Good, HSG B
1.520	74	>75% Grass cover, Good, HSG C
3.850	66	Weighted Average
3.850		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.8	180	0.0194	0.12		Sheet Flow, Grass Grass: Dense n= 0.240 P2= 2.57"

Subcatchment P-5S: Area E (W)

Hydrograph



Summary for Subcatchment P-6S: Area F (Mid Site)

Runoff = 1.83 cfs @ 12.47 hrs, Volume= 0.371 af, Depth= 0.30"

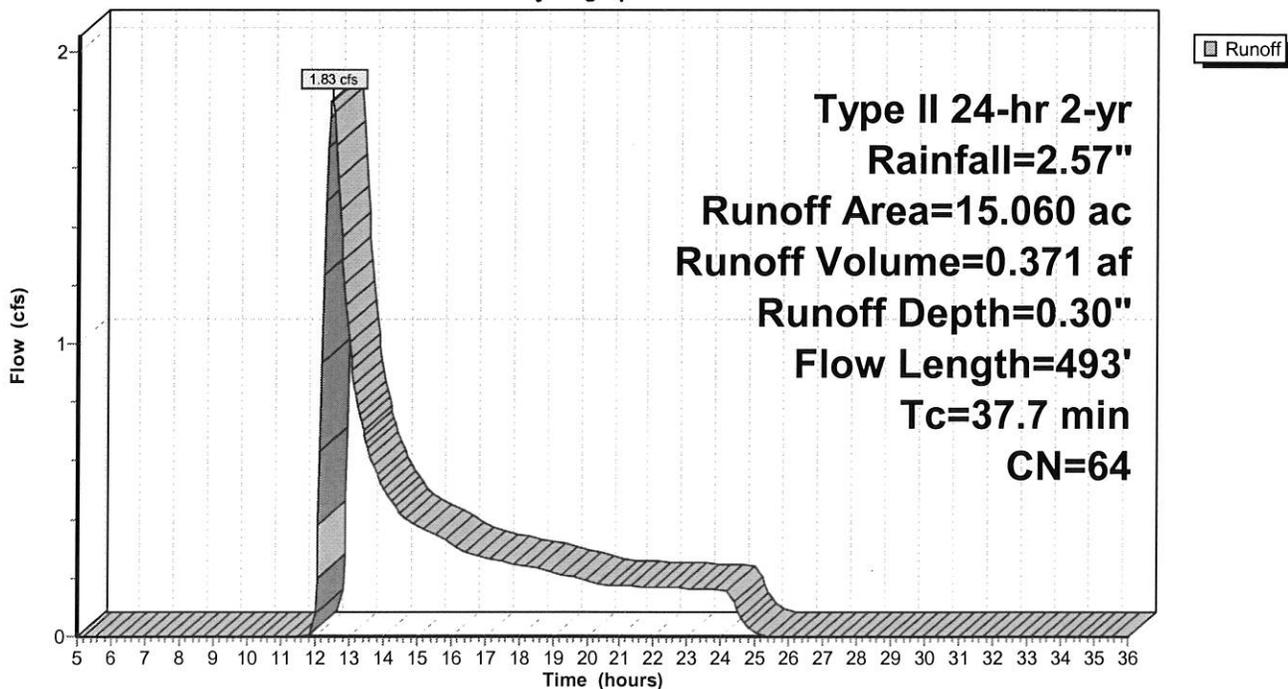
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
2.720	61	>75% Grass cover, Good, HSG B
7.650	58	Woods/grass comb., Good, HSG B
* 0.500	98	
4.190	72	Woods/grass comb., Good, HSG C
15.060	64	Weighted Average
14.560		Pervious Area
0.500		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.5	212	0.0113	0.10		Sheet Flow, baseball field, grass Grass: Dense n= 0.240 P2= 2.57"
1.2	281	0.0569	3.84		Shallow Concentrated Flow, grass Unpaved Kv= 16.1 fps
37.7	493	Total			

Subcatchment P-6S: Area F (Mid Site)

Hydrograph



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Type II 24-hr 2-yr Rainfall=2.57"

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Summary for Subcatchment P-7S: Area G

Runoff = 34.75 cfs @ 12.17 hrs, Volume= 2.878 af, Depth= 1.44"

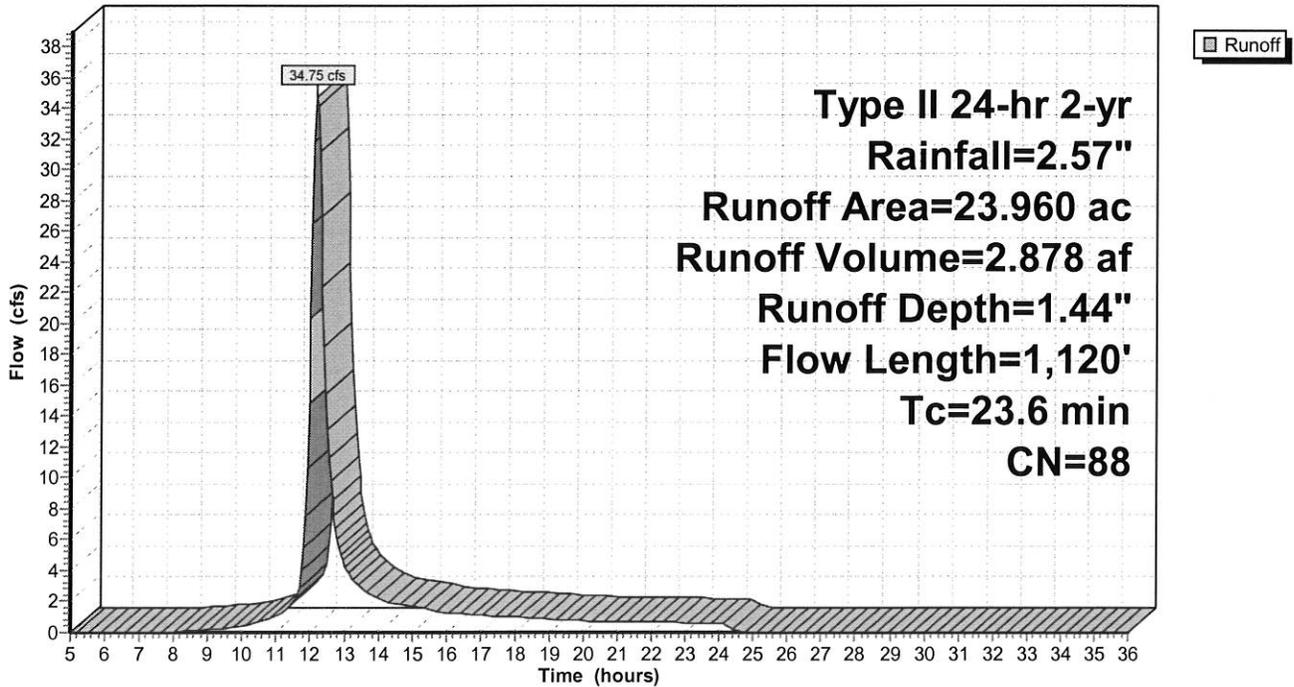
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
* 14.630	98	
1.000	61	>75% Grass cover, Good, HSG B
8.330	74	>75% Grass cover, Good, HSG C
23.960	88	Weighted Average
9.330		Pervious Area
14.630		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.2	240	0.0500	0.18		Sheet Flow, grass Grass: Dense n= 0.240 P2= 2.57"
1.4	880	0.0200	10.18	31.99	Circular Channel (pipe), RCP Diam= 24.0" Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
23.6	1,120	Total			

Subcatchment P-7S: Area G

Hydrograph



Summary for Subcatchment P-8S: Area H (E)

[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 0.18 cfs @ 11.99 hrs, Volume= 0.012 af, Depth= 0.27"

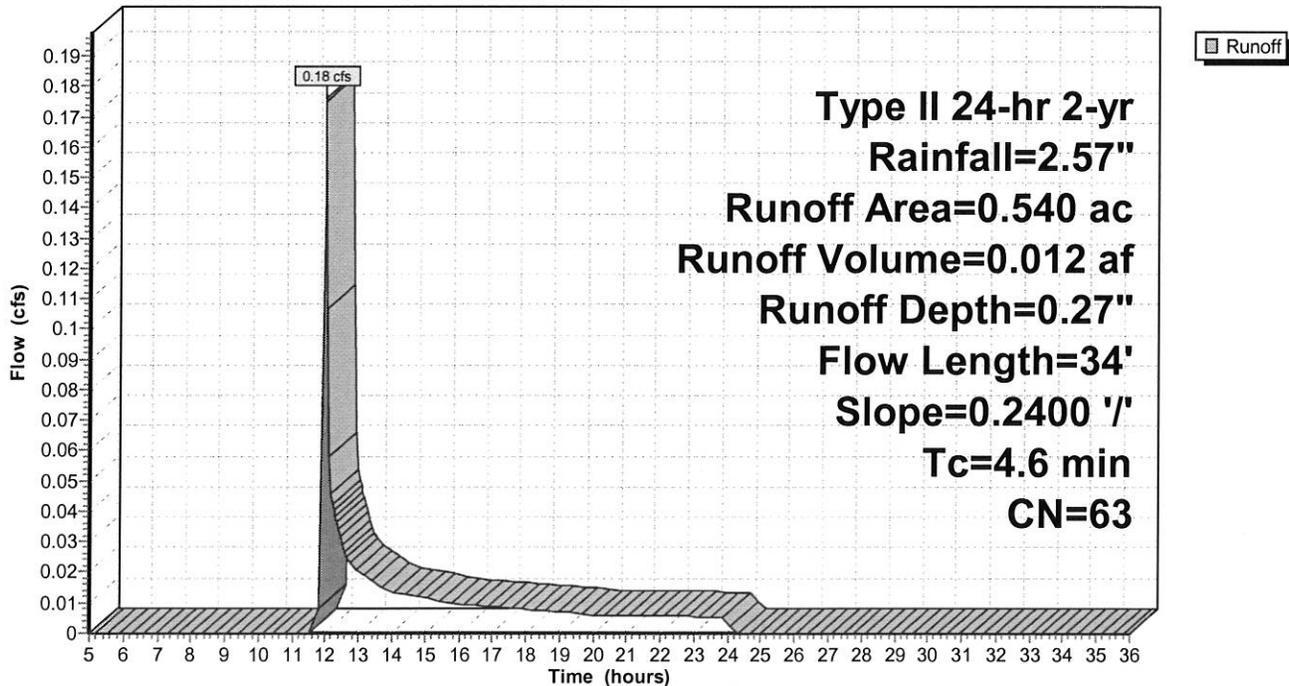
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, $dt= 0.05$ hrs
 Type II 24-hr 2-yr Rainfall=2.57"

Area (ac)	CN	Description
0.270	61	>75% Grass cover, Good, HSG B
0.120	55	Woods, Good, HSG B
0.150	72	Woods/grass comb., Good, HSG C
0.540	63	Weighted Average
0.540		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	34	0.2400	0.12		Sheet Flow, grass/woods n= 0.520 P2= 2.57"

Subcatchment P-8S: Area H (E)

Hydrograph



Summary for Pond 1P: Pond 3 (dry)

Inflow Area = 6.090 ac, 27.91% Impervious, Inflow Depth = 0.55" for 2-yr event
 Inflow = 1.92 cfs @ 12.45 hrs, Volume= 0.278 af
 Outflow = 1.13 cfs @ 12.84 hrs, Volume= 0.278 af, Atten= 41%, Lag= 23.9 min
 Discarded = 0.15 cfs @ 12.84 hrs, Volume= 0.071 af
 Primary = 0.98 cfs @ 12.84 hrs, Volume= 0.207 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 993.26' @ 12.84 hrs Surf.Area= 4,908 sf Storage= 2,133 cf

Plug-Flow detention time= 30.2 min calculated for 0.278 af (100% of inflow)
 Center-of-Mass det. time= 30.0 min (938.4 - 908.5)

Volume	Invert	Avail.Storage	Storage Description			
#1	992.50'	28,244 cf	Custom Stage Data (Irregular) Listed below			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
992.50	0	0.0	0	0	0	
993.00	4,633	335.0	772	772	8,931	
994.00	5,673	358.0	5,144	5,916	10,246	
995.00	6,781	380.0	6,219	12,135	11,590	
996.00	7,949	399.0	7,357	19,492	12,830	
997.00	9,580	437.0	8,752	28,244	15,392	

Device	Routing	Invert	Outlet Devices
#1	Discarded	992.50'	1.296 in/hr Exfiltration over Surface area
#2	Primary	992.50'	8.0" x 35.0' long Culvert CPP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 992.32' S= 0.0051 '/' Cc= 0.900 n= 0.011
#3	Secondary	996.50'	20.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.15 cfs @ 12.84 hrs HW=993.26' (Free Discharge)

↑1=Exfiltration (Exfiltration Controls 0.15 cfs)

Primary OutFlow Max=0.98 cfs @ 12.84 hrs HW=993.26' (Free Discharge)

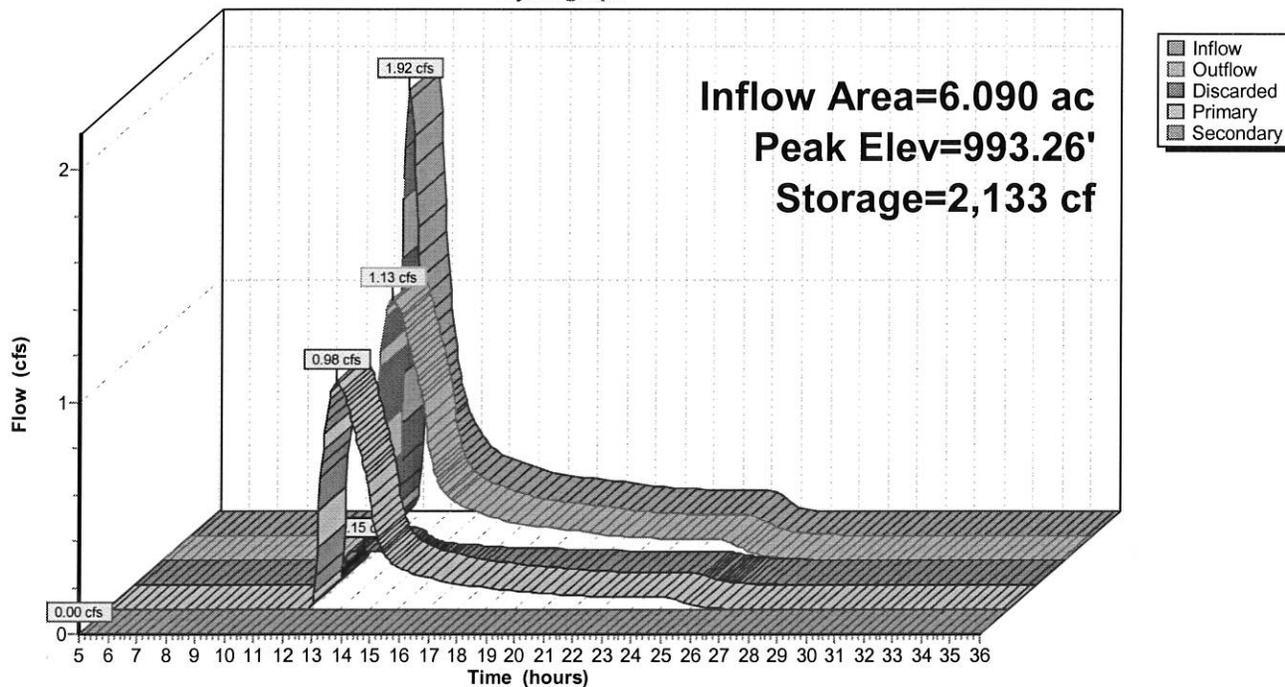
↑2=Culvert (Barrel Controls 0.98 cfs @ 3.06 fps)

Secondary OutFlow Max=0.00 cfs @ 5.00 hrs HW=992.50' (Free Discharge)

↑3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 1P: Pond 3 (dry)

Hydrograph



Summary for Pond 2P: Infiltration Basin

[81] Warning: Exceeded Pond P1 by 0.51' @ 27.35 hrs

Inflow Area = 23.960 ac, 61.06% Impervious, Inflow Depth > 1.26" for 2-yr event
 Inflow = 2.69 cfs @ 13.64 hrs, Volume= 2.516 af
 Outflow = 2.55 cfs @ 15.45 hrs, Volume= 2.391 af, Atten= 5%, Lag= 108.6 min
 Discarded = 0.81 cfs @ 15.45 hrs, Volume= 1.488 af
 Primary = 1.75 cfs @ 15.45 hrs, Volume= 0.903 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 998.20' @ 15.45 hrs Surf.Area= 9,709 sf Storage= 17,300 cf

Plug-Flow detention time= 178.8 min calculated for 2.388 af (95% of inflow)
 Center-of-Mass det. time= 136.3 min (1,311.7 - 1,175.4)

Volume	Invert	Avail.Storage	Storage Description			
#1	996.00'	51,736 cf	Custom Stage Data (Irregular) Listed below (Recalc)			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
996.00	6,106	382.0	0	0	6,106	
997.00	7,685	407.0	6,880	6,880	7,724	
998.00	9,364	433.0	8,511	15,391	9,512	
999.00	11,150	458.0	10,244	25,635	11,340	
1,000.00	13,035	483.0	12,080	37,715	13,270	
1,001.00	15,030	508.0	14,021	51,736	15,303	

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	15.0" x 94.0' long Culvert RCP, square edge headwall, Ke= 0.500 Outlet Invert= 995.51' S= 0.0052 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections
#2	Secondary	998.50'	25.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#3	Device 1	998.00'	6.0' long x 1.00' rise Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Discarded	996.00'	3.600 in/hr Exfiltration over Surface area

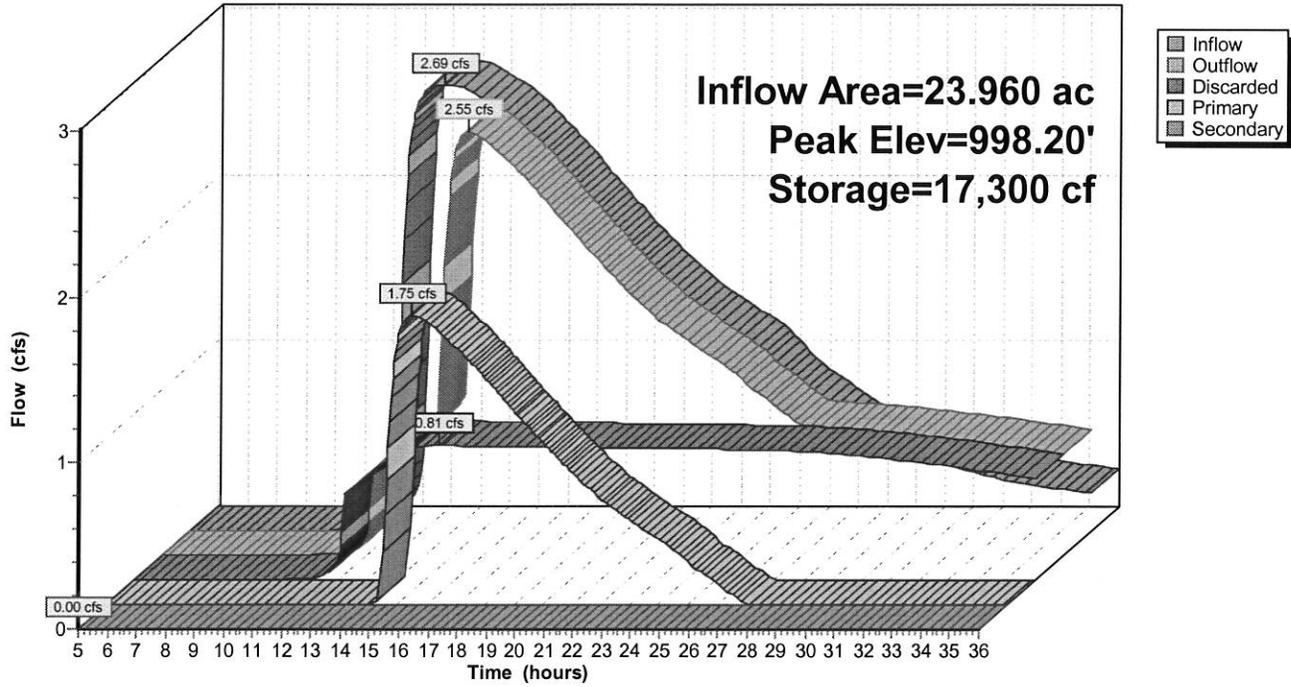
Discarded OutFlow Max=0.81 cfs @ 15.45 hrs HW=998.20' (Free Discharge)
 ↳4=Exfiltration (Exfiltration Controls 0.81 cfs)

Primary OutFlow Max=1.75 cfs @ 15.45 hrs HW=998.20' (Free Discharge)
 ↳1=Culvert (Passes 1.75 cfs of 6.15 cfs potential flow)
 ↳3=Sharp-Crested Rectangular Weir (Weir Controls 1.75 cfs @ 1.46 fps)

Secondary OutFlow Max=0.00 cfs @ 5.00 hrs HW=996.00' (Free Discharge)
 ↳2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 2P: Infiltration Basin

Hydrograph



Summary for Pond P1: Pond 1

Inflow Area = 23.960 ac, 61.06% Impervious, Inflow Depth = 1.44" for 2-yr event
 Inflow = 34.75 cfs @ 12.17 hrs, Volume= 2.878 af
 Outflow = 2.69 cfs @ 13.64 hrs, Volume= 2.516 af, Atten= 92%, Lag= 88.3 min
 Primary = 2.69 cfs @ 13.64 hrs, Volume= 2.516 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 998.21' @ 13.64 hrs Surf.Area= 63,665 sf Storage= 72,015 cf

Plug-Flow detention time= 397.7 min calculated for 2.512 af (87% of inflow)
 Center-of-Mass det. time= 337.9 min (1,175.4 - 837.6)

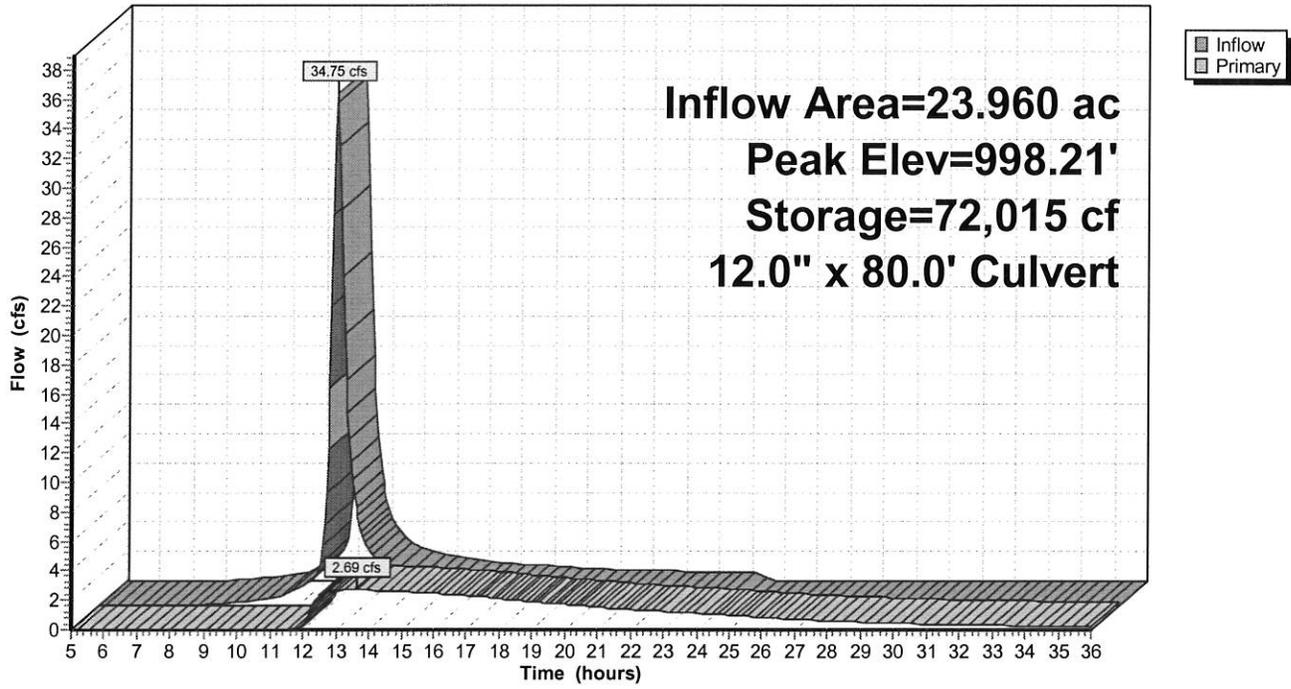
Volume	Invert	Avail.Storage	Storage Description		
#1	997.00'	671,679 cf	Custom Stage Data (Irregular) Listed below		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
997.00	54,341	1,290.9	0	0	54,341
998.00	62,100	1,365.2	58,177	58,177	70,102
999.00	69,541	1,434.3	65,785	123,963	85,559
1,000.00	76,123	1,481.8	72,807	196,770	96,678
1,001.00	82,827	1,527.5	79,451	276,221	107,724
1,002.00	89,703	1,570.1	86,242	362,464	118,339
1,003.00	96,677	1,614.3	93,168	455,632	129,652
1,004.00	105,446	1,687.5	101,030	556,662	148,956
1,005.00	124,863	1,808.9	115,018	671,679	182,779

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	12.0" x 80.0' long Culvert RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 996.60' S= 0.0050 '/' Cc= 0.900 n= 0.013

Primary OutFlow Max=2.69 cfs @ 13.64 hrs HW=998.21' (Free Discharge)
 ↑1=Culvert (Barrel Controls 2.69 cfs @ 3.60 fps)

Pond P1: Pond 1

Hydrograph



Summary for Pond P2: Pond 2 (Dry)

Inflow Area = 16.220 ac, 6.17% Impervious, Inflow Depth = 0.39" for 2-yr event
 Inflow = 2.60 cfs @ 12.60 hrs, Volume= 0.522 af
 Outflow = 2.57 cfs @ 12.65 hrs, Volume= 0.522 af, Atten= 1%, Lag= 3.1 min
 Primary = 2.57 cfs @ 12.65 hrs, Volume= 0.522 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,002.08' @ 12.65 hrs Surf.Area= 1,214 sf Storage= 744 cf

Plug-Flow detention time= 9.6 min calculated for 0.521 af (100% of inflow)
 Center-of-Mass det. time= 9.9 min (957.3 - 947.4)

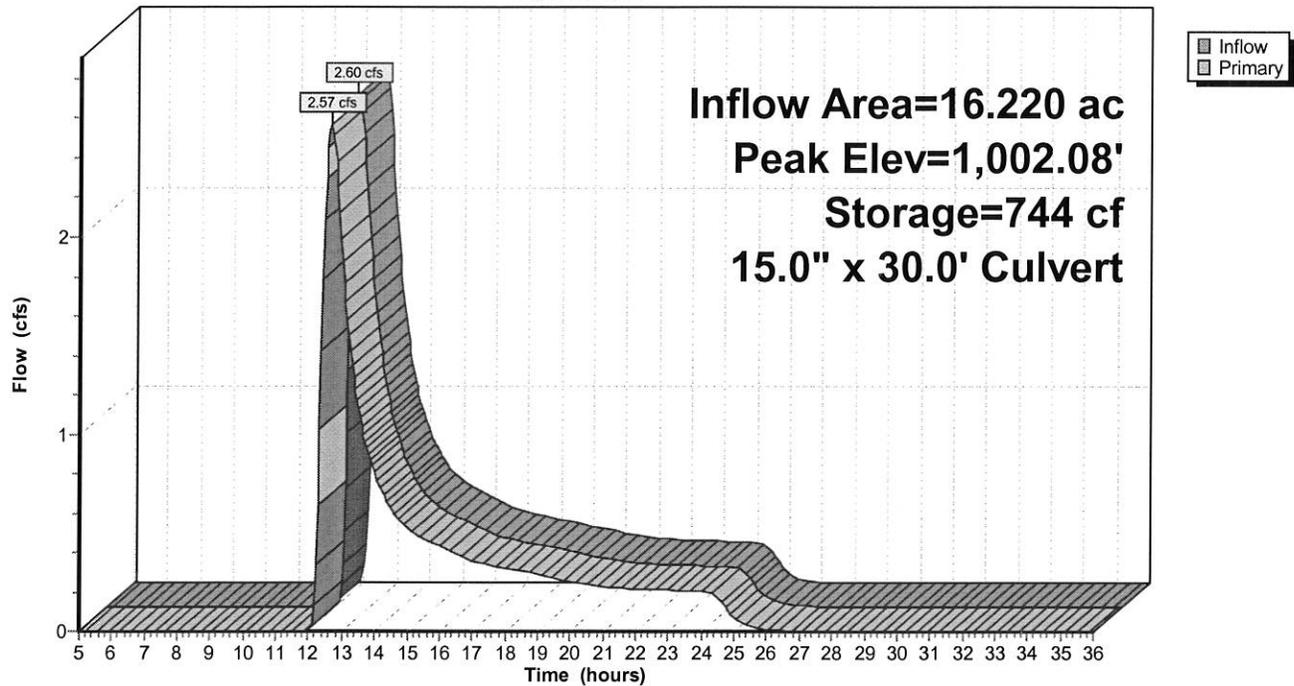
Volume	Invert	Avail.Storage	Storage Description			
#1	1,001.16'	39,351 cf	Custom Stage Data (Irregular) Listed below			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
1,001.16	0	0.0	0	0	0	
1,003.00	2,423	227.0	1,486	1,486	4,106	
1,004.00	25,153	979.0	11,794	13,280	76,278	
1,005.00	27,000	1,000.0	26,071	39,351	79,730	

Device	Routing	Invert	Outlet Devices	
#1	Primary	1,001.16'	15.0" x 30.0' long Culvert RCP, groove end projecting, Ke= 0.200 Outlet Invert= 1,001.00' S= 0.0053 '/' Cc= 0.900 n= 0.013	

Primary OutFlow Max=2.57 cfs @ 12.65 hrs HW=1,002.08' (Free Discharge)
 ↑1=Culvert (Barrel Controls 2.57 cfs @ 3.69 fps)

Pond P2: Pond 2 (Dry)

Hydrograph

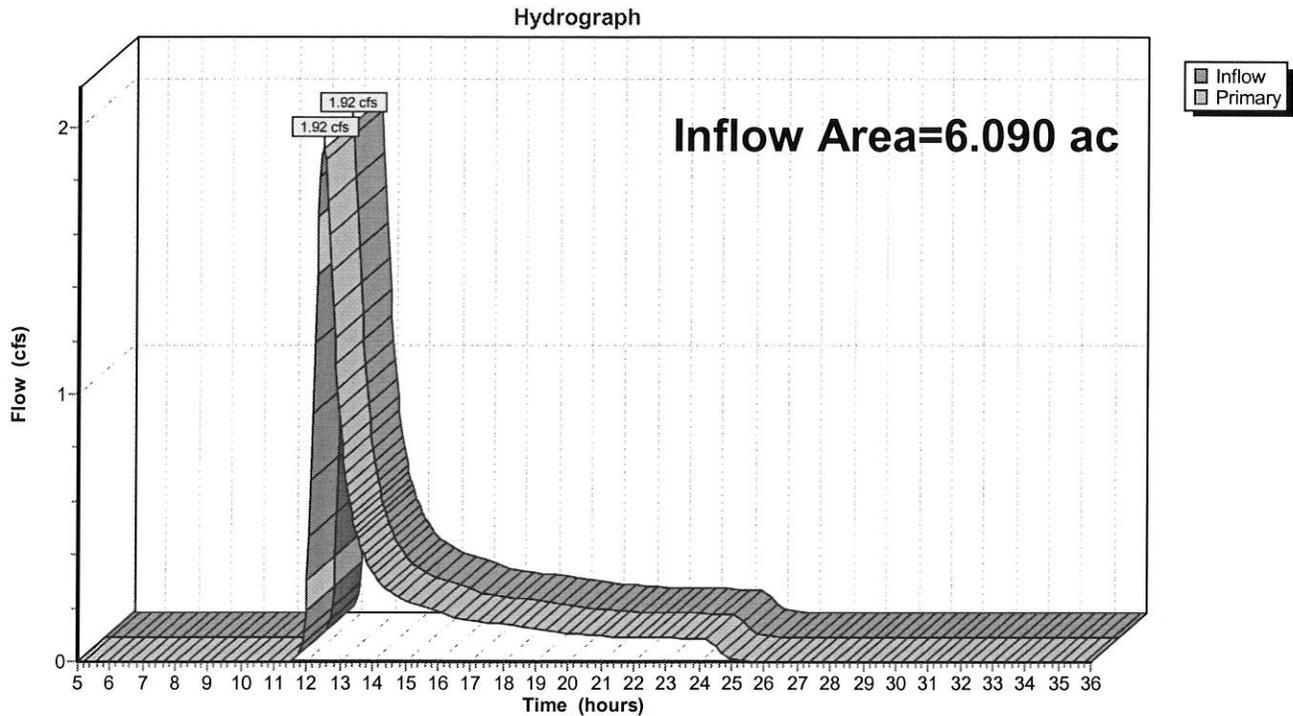


Summary for Link P-1L: North Discharge

Inflow Area = 6.090 ac, 27.91% Impervious, Inflow Depth = 0.55" for 2-yr event
Inflow = 1.92 cfs @ 12.45 hrs, Volume= 0.278 af
Primary = 1.92 cfs @ 12.45 hrs, Volume= 0.278 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-1L: North Discharge



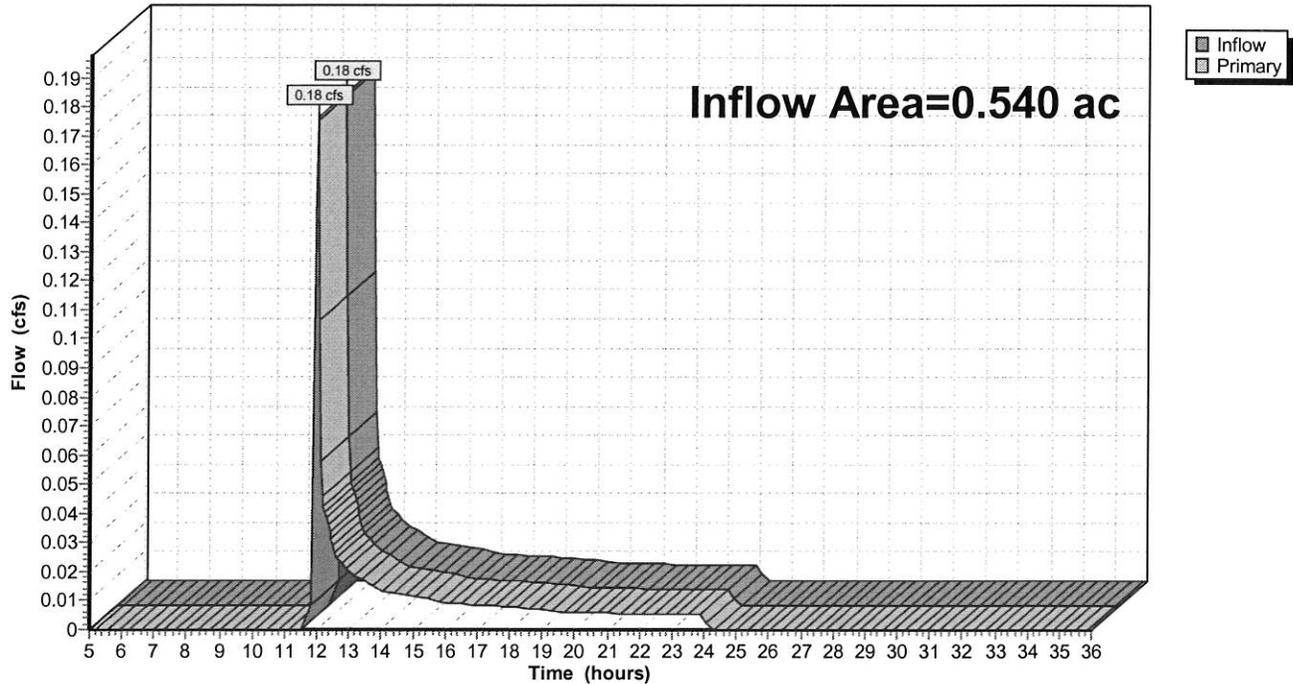
Summary for Link P-3L: East Discharge

Inflow Area = 0.540 ac, 0.00% Impervious, Inflow Depth = 0.27" for 2-yr event
Inflow = 0.18 cfs @ 11.99 hrs, Volume= 0.012 af
Primary = 0.18 cfs @ 11.99 hrs, Volume= 0.012 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-3L: East Discharge

Hydrograph



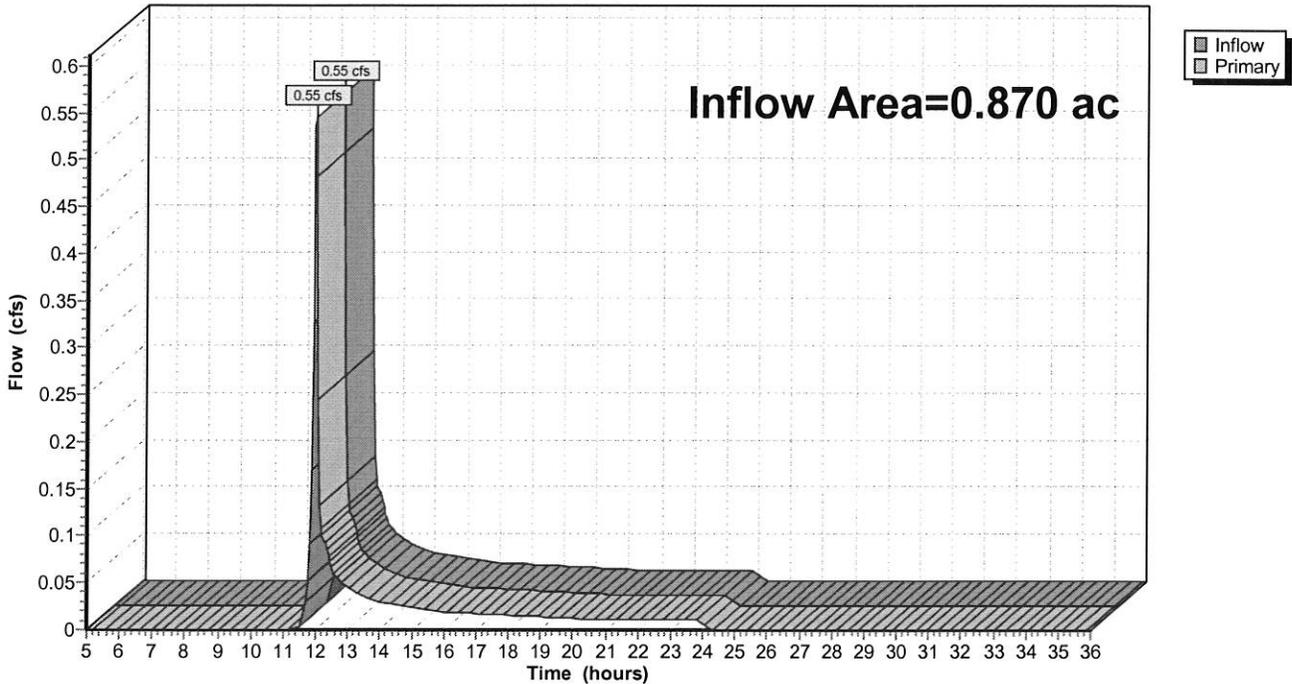
Summary for Link P-4L: South & East Discharge

Inflow Area = 0.870 ac, 0.00% Impervious, Inflow Depth = 0.41" for 2-yr event
Inflow = 0.55 cfs @ 11.97 hrs, Volume= 0.030 af
Primary = 0.55 cfs @ 11.97 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-4L: South & East Discharge

Hydrograph

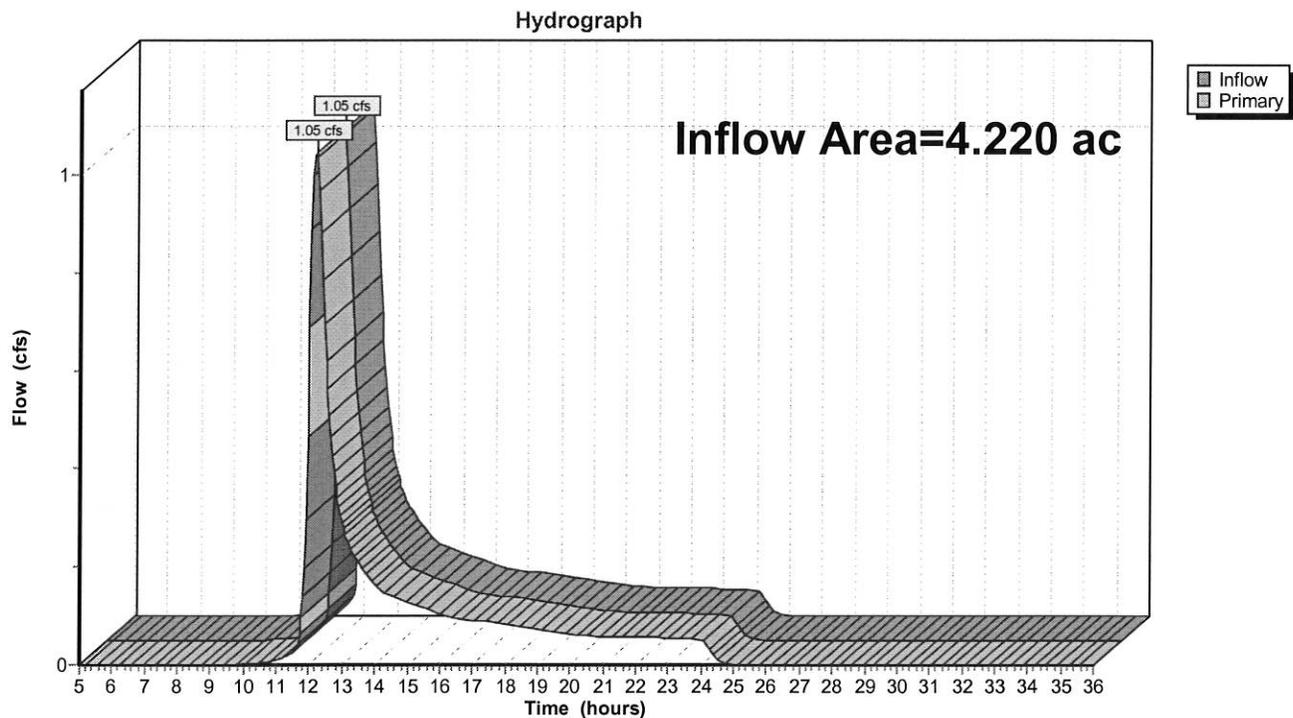


Summary for Link P-5L: West Discharge

Inflow Area = 4.220 ac, 3.55% Impervious, Inflow Depth = 0.43" for 2-yr event
Inflow = 1.05 cfs @ 12.19 hrs, Volume= 0.150 af
Primary = 1.05 cfs @ 12.19 hrs, Volume= 0.150 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-5L: West Discharge



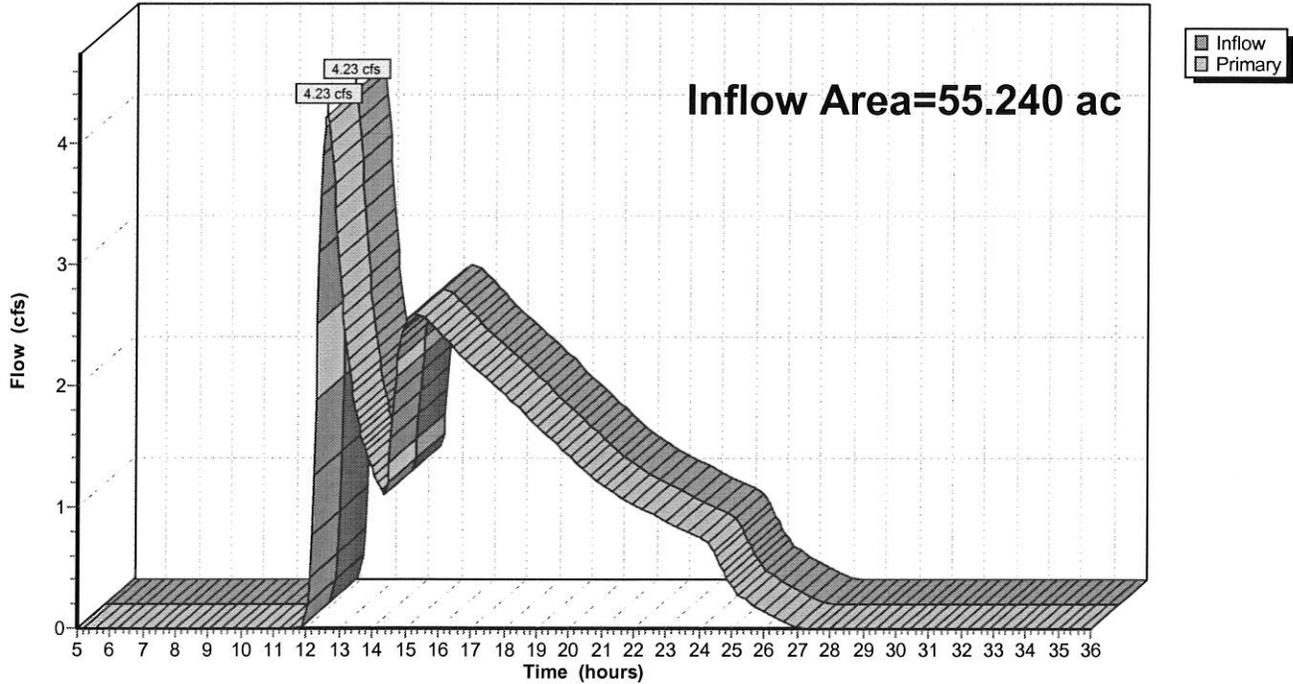
Summary for Link P-6L: Mid Site Discharge

Inflow Area = 55.240 ac, 29.20% Impervious, Inflow Depth = 0.39" for 2-yr event
Inflow = 4.23 cfs @ 12.57 hrs, Volume= 1.795 af
Primary = 4.23 cfs @ 12.57 hrs, Volume= 1.795 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-6L: Mid Site Discharge

Hydrograph

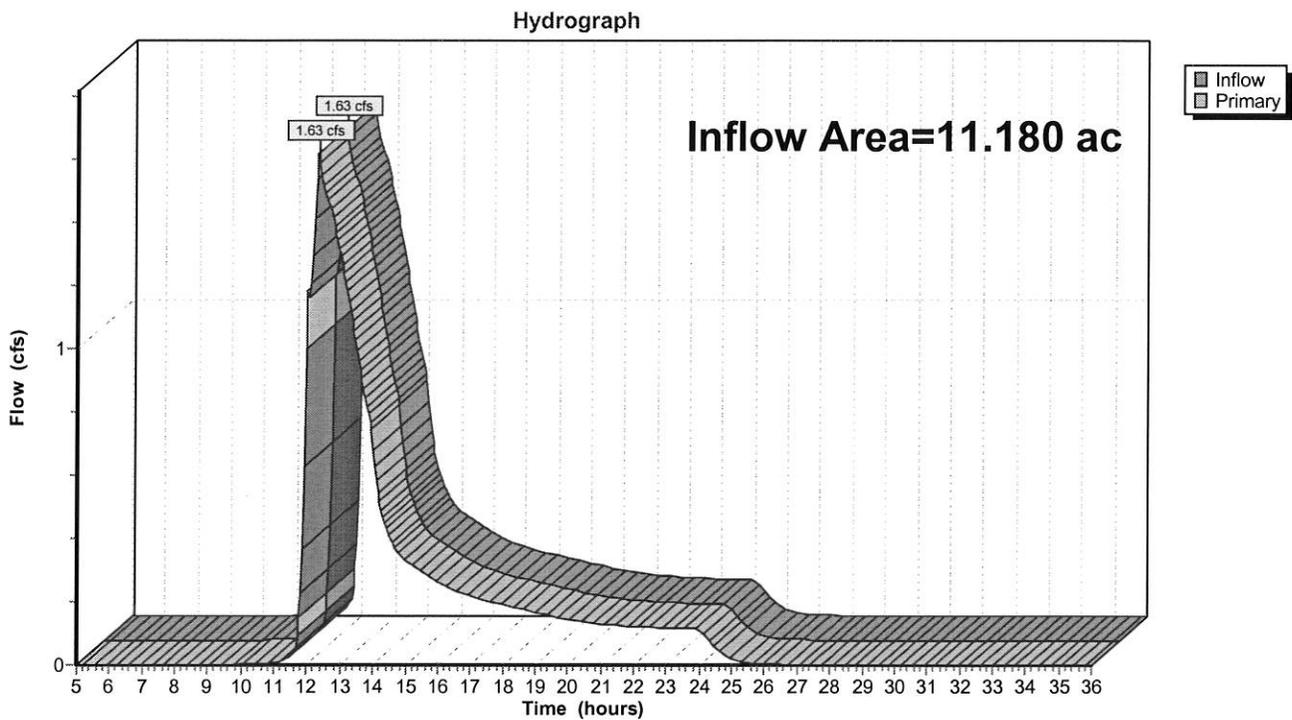


Summary for Link P-7L: Proposed Discharge (Site)

Inflow Area = 11.180 ac, 16.55% Impervious, Inflow Depth = 0.42" for 2-yr event
Inflow = 1.63 cfs @ 12.31 hrs, Volume= 0.387 af
Primary = 1.63 cfs @ 12.31 hrs, Volume= 0.387 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-7L: Proposed Discharge (Site)

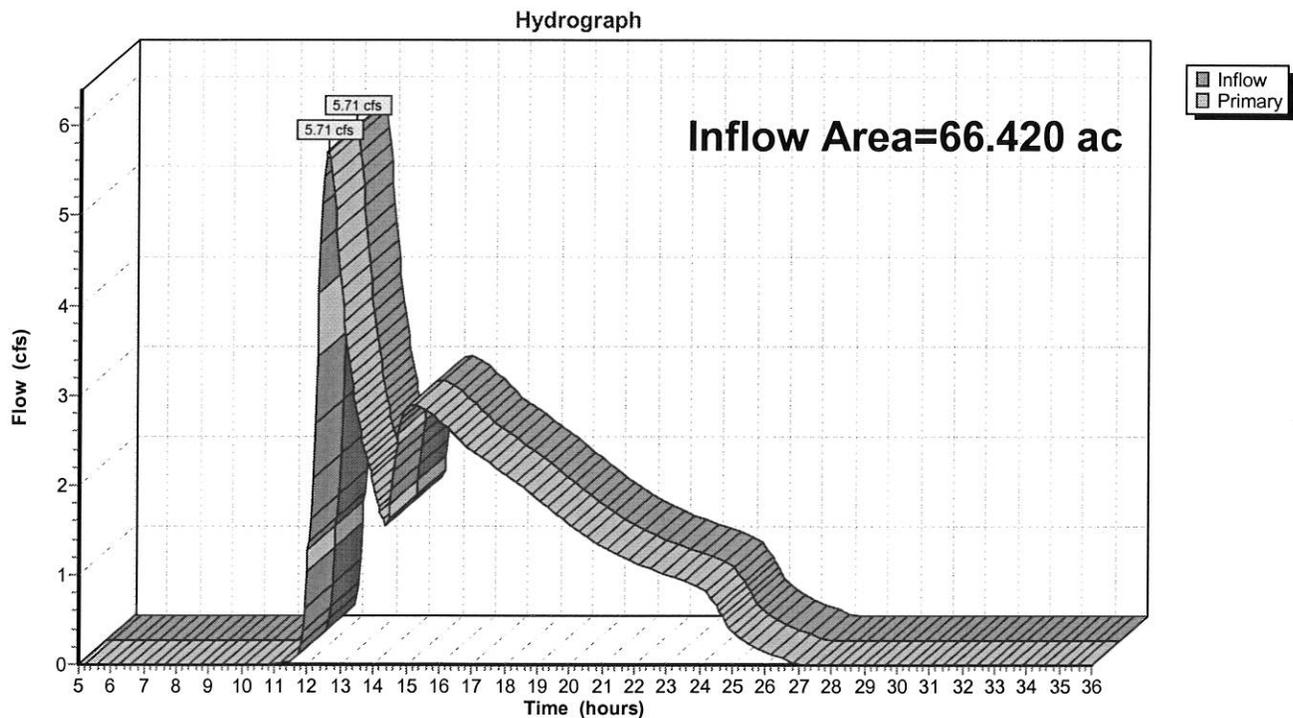


Summary for Link P-8L: Proposed Discharge Total

Inflow Area = 66.420 ac, 27.07% Impervious, Inflow Depth = 0.39" for 2-yr event
Inflow = 5.71 cfs @ 12.57 hrs, Volume= 2.182 af
Primary = 5.71 cfs @ 12.57 hrs, Volume= 2.182 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-8L: Proposed Discharge Total



04C1648 - Proposed (06-19-08)

Type II 24-hr 10-yr Rainfall=3.62"

Prepared by Jenkins Survey and Design

Printed 7/29/2008

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Time span=5.00-36.00 hrs, dt=0.05 hrs, 621 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment P-10S: Area J (S)	Runoff Area=0.330 ac 0.00% Impervious Runoff Depth=1.32" Flow Length=52' Tc=3.7 min CN=74 Runoff=0.83 cfs 0.036 af
Subcatchment P-11S: Area K, Offsite (W)	Runoff Area=0.370 ac 40.54% Impervious Runoff Depth=2.04" Flow Length=80' Slope=0.0250 '/' Tc=12.2 min CN=84 Runoff=1.06 cfs 0.063 af
Subcatchment P-2S: Area B (Mid Site)	Runoff Area=16.220 ac 6.17% Impervious Runoff Depth=0.92" Flow Length=1,009' Tc=48.6 min CN=67 Runoff=7.88 cfs 1.241 af
Subcatchment P-3S: Area C (N)	Runoff Area=4.290 ac 39.63% Impervious Runoff Depth=1.45" Flow Length=412' Slope=0.0160 '/' Tc=42.8 min CN=76 Runoff=4.09 cfs 0.519 af
Subcatchment P-4S: Area D, Offsite (N)	Runoff Area=1.800 ac 0.00% Impervious Runoff Depth=0.39" Flow Length=150' Slope=0.0432 '/' Tc=42.4 min CN=55 Runoff=0.25 cfs 0.058 af
Subcatchment P-5S: Area E (W)	Runoff Area=3.850 ac 0.00% Impervious Runoff Depth=0.87" Flow Length=180' Slope=0.0194 '/' Tc=25.8 min CN=66 Runoff=2.72 cfs 0.278 af
Subcatchment P-6S: Area F (Mid Site)	Runoff Area=15.060 ac 3.32% Impervious Runoff Depth=0.77" Flow Length=493' Tc=37.7 min CN=64 Runoff=6.82 cfs 0.962 af
Subcatchment P-7S: Area G	Runoff Area=23.960 ac 61.06% Impervious Runoff Depth=2.38" Flow Length=1,120' Tc=23.6 min CN=88 Runoff=57.07 cfs 4.749 af
Subcatchment P-8S: Area H (E)	Runoff Area=0.540 ac 0.00% Impervious Runoff Depth=0.72" Flow Length=34' Slope=0.2400 '/' Tc=4.6 min CN=63 Runoff=0.65 cfs 0.032 af
Pond 1P: Pond 3 (dry)	Peak Elev=994.07' Storage=6,323 cf Inflow=4.32 cfs 0.578 af Discarded=0.17 cfs 0.103 af Primary=1.72 cfs 0.474 af Secondary=0.00 cfs 0.000 af Outflow=1.90 cfs 0.578 af
Pond 2P: Infiltration Basin	Peak Elev=998.28' Storage=18,087 cf Inflow=3.75 cfs 4.284 af Discarded=0.82 cfs 1.584 af Primary=2.90 cfs 2.441 af Secondary=0.00 cfs 0.000 af Outflow=3.72 cfs 4.026 af
Pond P1: Pond 1	Peak Elev=999.02' Storage=125,590 cf Inflow=57.07 cfs 4.749 af 12.0" x 80.0' Culvert Outflow=3.75 cfs 4.284 af
Pond P2: Pond 2 (Dry)	Peak Elev=1,003.12' Storage=2,845 cf Inflow=7.88 cfs 1.241 af 15.0" x 30.0' Culvert Outflow=6.65 cfs 1.241 af
Link P-1L: North Discharge	Inflow=4.32 cfs 0.578 af Primary=4.32 cfs 0.578 af
Link P-3L: East Discharge	Inflow=0.65 cfs 0.032 af Primary=0.65 cfs 0.032 af
Link P-4L: South & East Discharge	Inflow=1.46 cfs 0.069 af Primary=1.46 cfs 0.069 af

04C1648 - Proposed (06-19-08)

Prepared by Jenkins Survey and Design

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Type II 24-hr 10-yr Rainfall=3.62"

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Link P-5L: West Discharge

Inflow=3.15 cfs 0.341 af
Primary=3.15 cfs 0.341 af

Link P-6L: Mid Site Discharge

Inflow=13.11 cfs 4.645 af
Primary=13.11 cfs 4.645 af

Link P-7L: Proposed Discharge (Site)

Inflow=4.13 cfs 0.884 af
Primary=4.13 cfs 0.884 af

Link P-8L: Proposed Discharge Total

Inflow=16.50 cfs 5.529 af
Primary=16.50 cfs 5.529 af

Total Runoff Area = 66.420 ac Runoff Volume = 7.939 af Average Runoff Depth = 1.43"
72.93% Pervious = 48.440 ac 27.07% Impervious = 17.980 ac

Summary for Subcatchment P-10S: Area J (S)

[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 0.83 cfs @ 11.95 hrs, Volume= 0.036 af, Depth= 1.32"

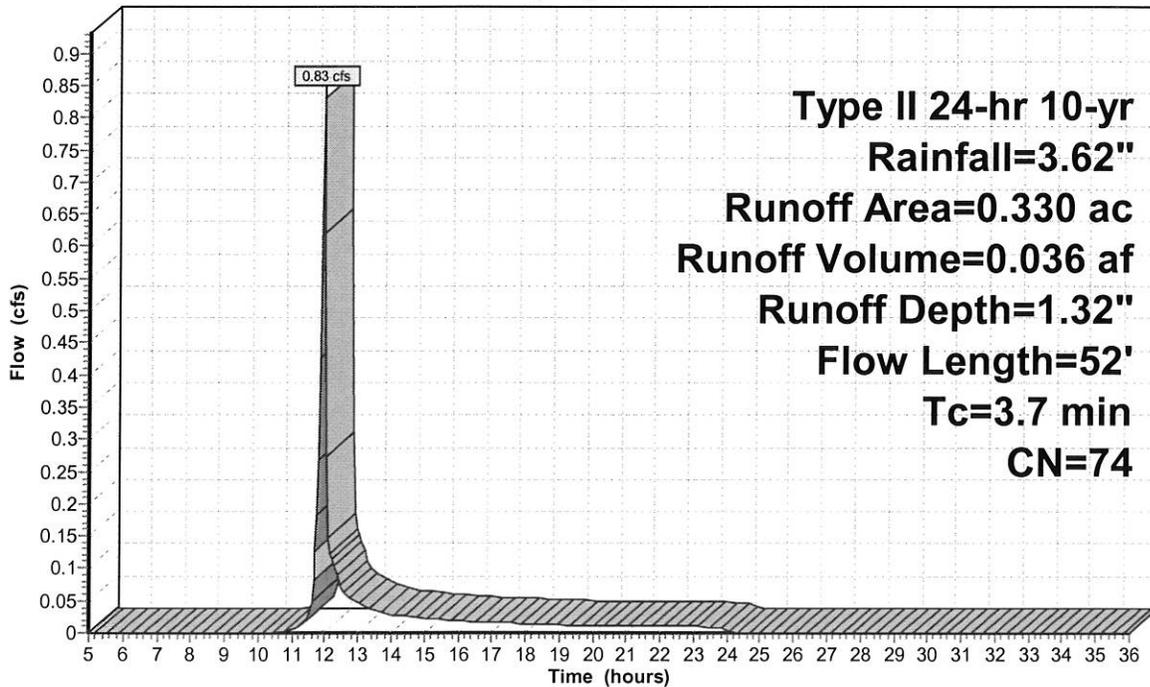
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, $dt= 0.05$ hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
0.330	74	>75% Grass cover, Good, HSG C
0.330		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.6	40	0.0500	0.18		Sheet Flow, grass Grass: Short n= 0.150 P2= 2.57"
0.1	12	0.0340	2.97		Shallow Concentrated Flow, grass Unpaved Kv= 16.1 fps
3.7	52	Total			

Subcatchment P-10S: Area J (S)

Hydrograph



Summary for Subcatchment P-11S: Area K, Offsite (W)

Runoff = 1.06 cfs @ 12.04 hrs, Volume= 0.063 af, Depth= 2.04"

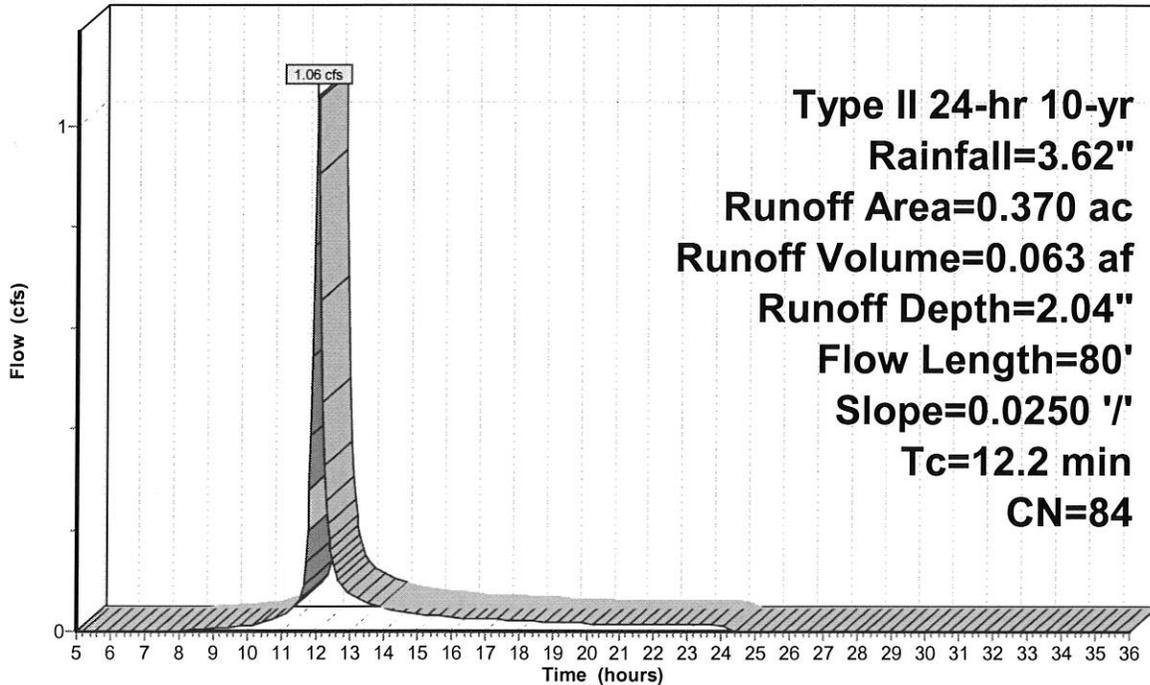
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
0.220	74	>75% Grass cover, Good, HSG C
* 0.150	98	
0.370	84	Weighted Average
0.220		Pervious Area
0.150		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	80	0.0250	0.11		Sheet Flow, grass Grass: Dense n= 0.240 P2= 2.57"

Subcatchment P-11S: Area K, Offsite (W)

Hydrograph



Summary for Subcatchment P-2S: Area B (Mid Site)

Runoff = 7.88 cfs @ 12.54 hrs, Volume= 1.241 af, Depth= 0.92"

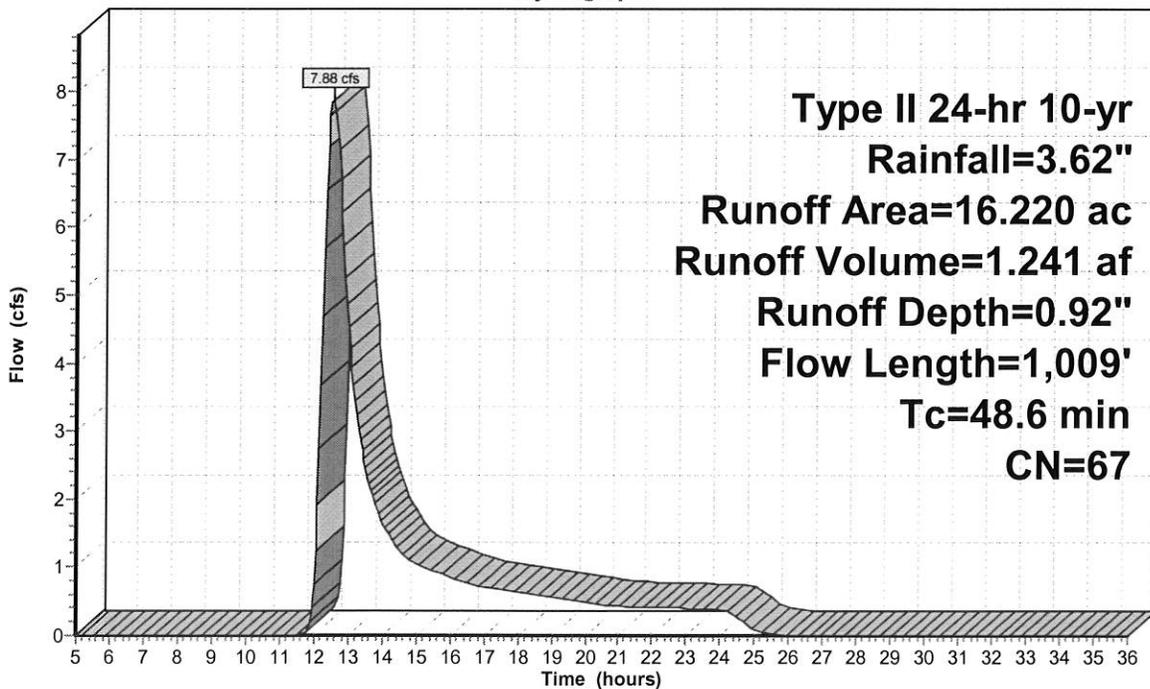
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
10.000	61	>75% Grass cover, Good, HSG B
* 1.000	98	
5.220	74	>75% Grass cover, Good, HSG C
16.220	67	Weighted Average
15.220		Pervious Area
1.000		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
43.0	300	0.0150	0.12		Sheet Flow, Soccer Field Grass: Dense n= 0.240 P2= 2.57"
5.6	709	0.0169	2.09		Shallow Concentrated Flow, shallow conentrated Unpaved Kv= 16.1 fps
48.6	1,009	Total			

Subcatchment P-2S: Area B (Mid Site)

Hydrograph



Summary for Subcatchment P-3S: Area C (N)

Runoff = 4.09 cfs @ 12.42 hrs, Volume= 0.519 af, Depth= 1.45"

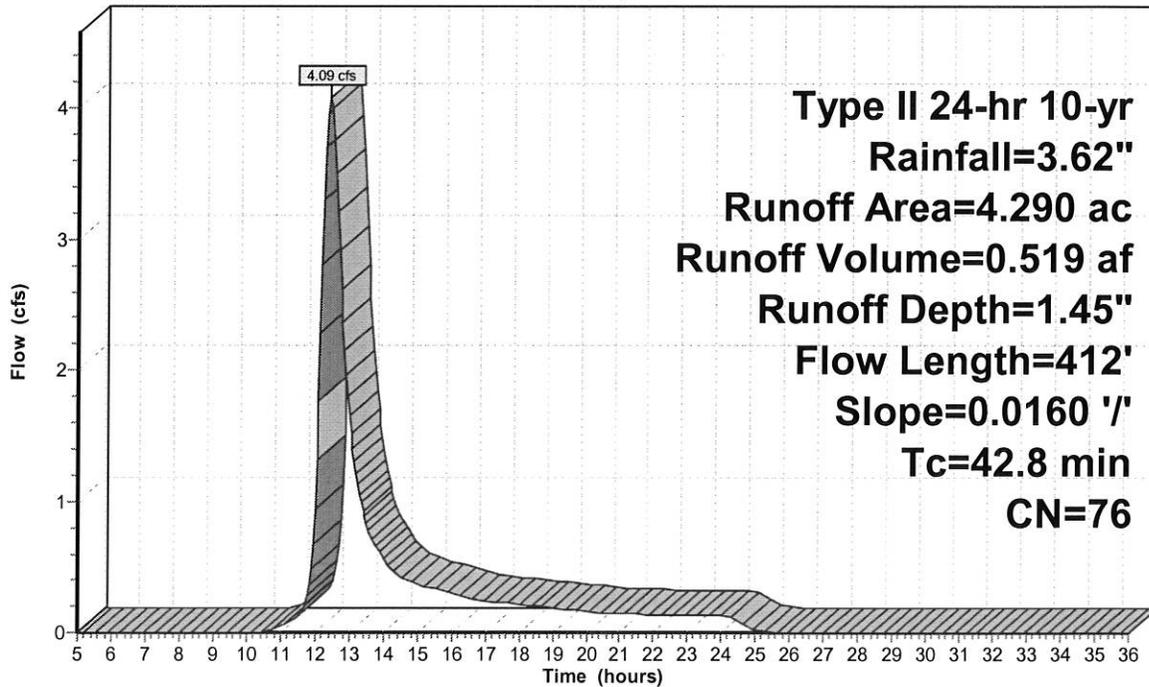
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
2.590	61	>75% Grass cover, Good, HSG B
* 1.700	98	
4.290	76	Weighted Average
2.590		Pervious Area
1.700		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
41.9	300	0.0160	0.12		Sheet Flow, Soccer Field Grass: Dense n= 0.240 P2= 2.57"
0.9	112	0.0160	2.04		Shallow Concentrated Flow, Soccer Field Unpaved Kv= 16.1 fps
42.8	412	Total			

Subcatchment P-3S: Area C (N)

Hydrograph



Summary for Subcatchment P-4S: Area D, Offsite (N)

Runoff = 0.25 cfs @ 12.56 hrs, Volume= 0.058 af, Depth= 0.39"

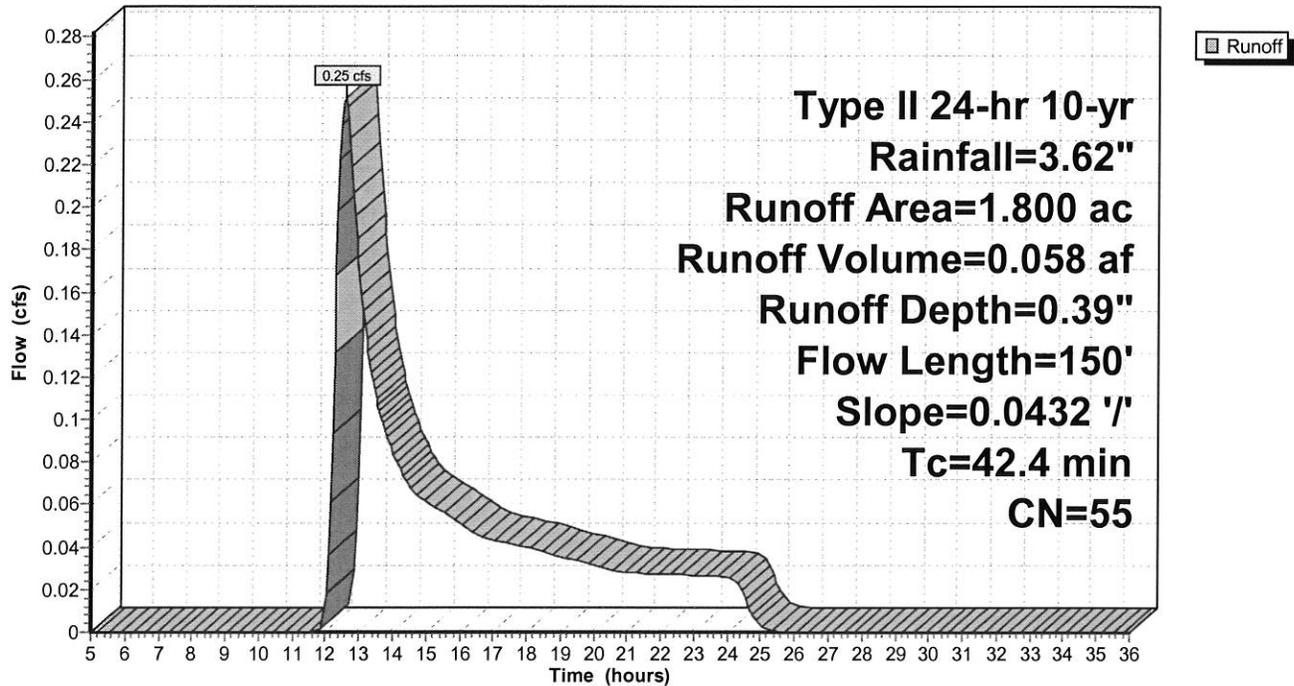
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
1.800	55	Woods, Good, HSG B
1.800		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.4	150	0.0432	0.06		Sheet Flow, Woods Woods: Dense underbrush n= 0.800 P2= 2.57"

Subcatchment P-4S: Area D, Offsite (N)

Hydrograph



Summary for Subcatchment P-5S: Area E (W)

Runoff = 2.72 cfs @ 12.23 hrs, Volume= 0.278 af, Depth= 0.87"

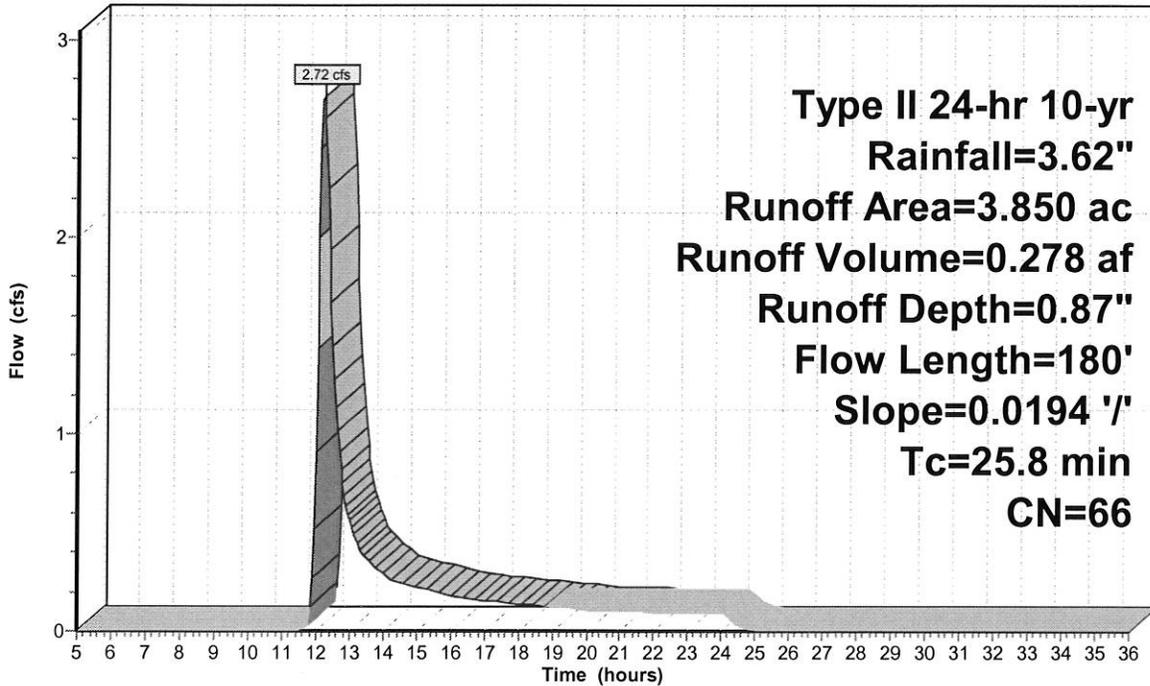
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
2.330	61	>75% Grass cover, Good, HSG B
1.520	74	>75% Grass cover, Good, HSG C
3.850	66	Weighted Average
3.850		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.8	180	0.0194	0.12		Sheet Flow, Grass Grass: Dense n=0.240 P2= 2.57"

Subcatchment P-5S: Area E (W)

Hydrograph



Summary for Subcatchment P-6S: Area F (Mid Site)

Runoff = 6.82 cfs @ 12.40 hrs, Volume= 0.962 af, Depth= 0.77"

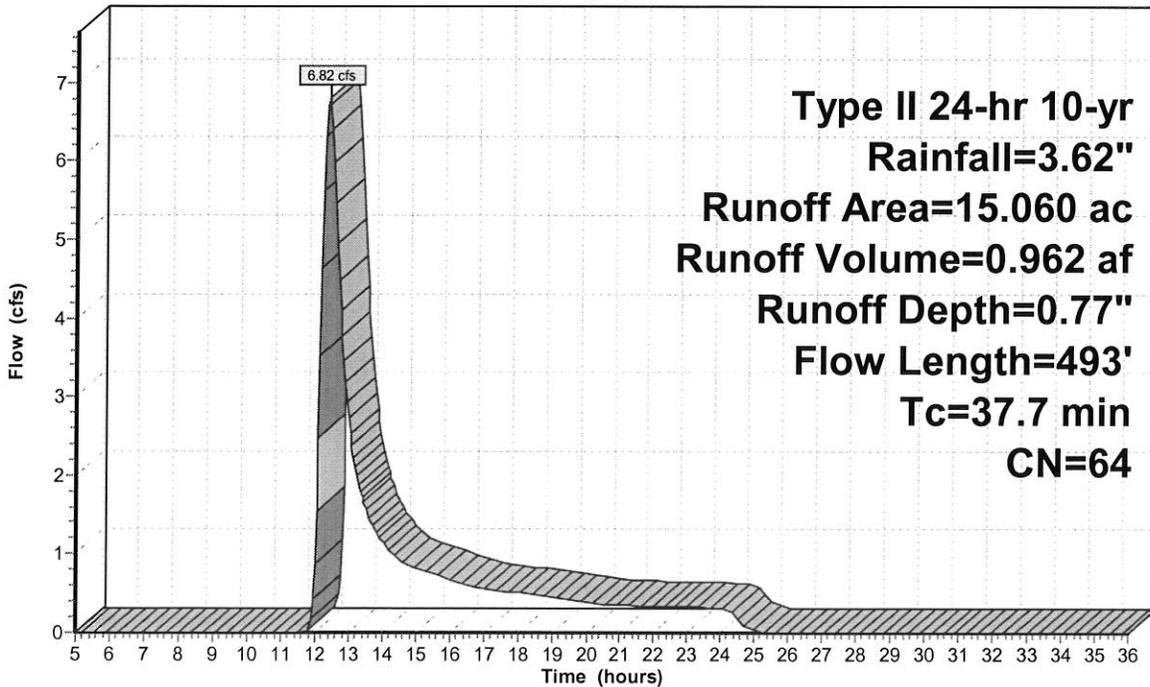
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
2.720	61	>75% Grass cover, Good, HSG B
7.650	58	Woods/grass comb., Good, HSG B
* 0.500	98	
4.190	72	Woods/grass comb., Good, HSG C
15.060	64	Weighted Average
14.560		Pervious Area
0.500		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.5	212	0.0113	0.10		Sheet Flow, baseball field, grass Grass: Dense n= 0.240 P2= 2.57"
1.2	281	0.0569	3.84		Shallow Concentrated Flow, grass Unpaved Kv= 16.1 fps
37.7	493	Total			

Subcatchment P-6S: Area F (Mid Site)

Hydrograph



Summary for Subcatchment P-7S: Area G

Runoff = 57.07 cfs @ 12.16 hrs, Volume= 4.749 af, Depth= 2.38"

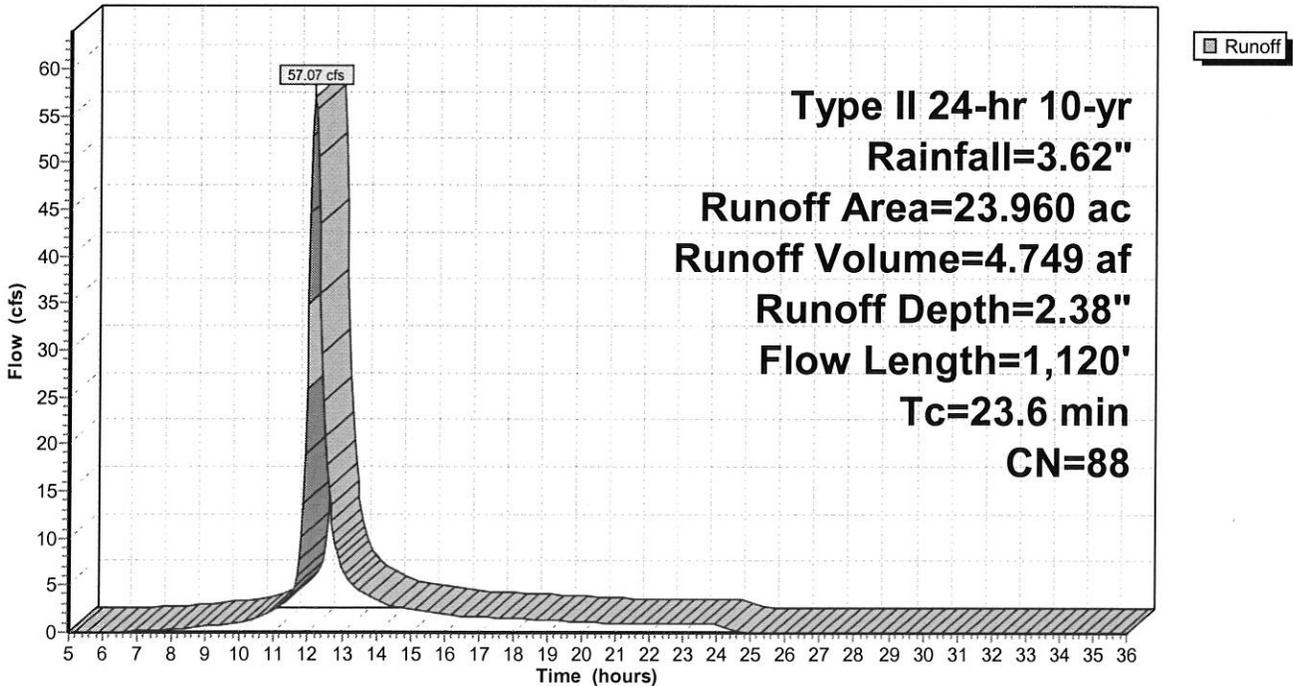
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
* 14.630	98	
1.000	61	>75% Grass cover, Good, HSG B
8.330	74	>75% Grass cover, Good, HSG C
23.960	88	Weighted Average
9.330		Pervious Area
14.630		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.2	240	0.0500	0.18		Sheet Flow, grass Grass: Dense n= 0.240 P2= 2.57"
1.4	880	0.0200	10.18	31.99	Circular Channel (pipe), RCP Diam= 24.0" Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
23.6	1,120	Total			

Subcatchment P-7S: Area G

Hydrograph



Summary for Subcatchment P-8S: Area H (E)

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.65 cfs @ 11.97 hrs, Volume= 0.032 af, Depth= 0.72"

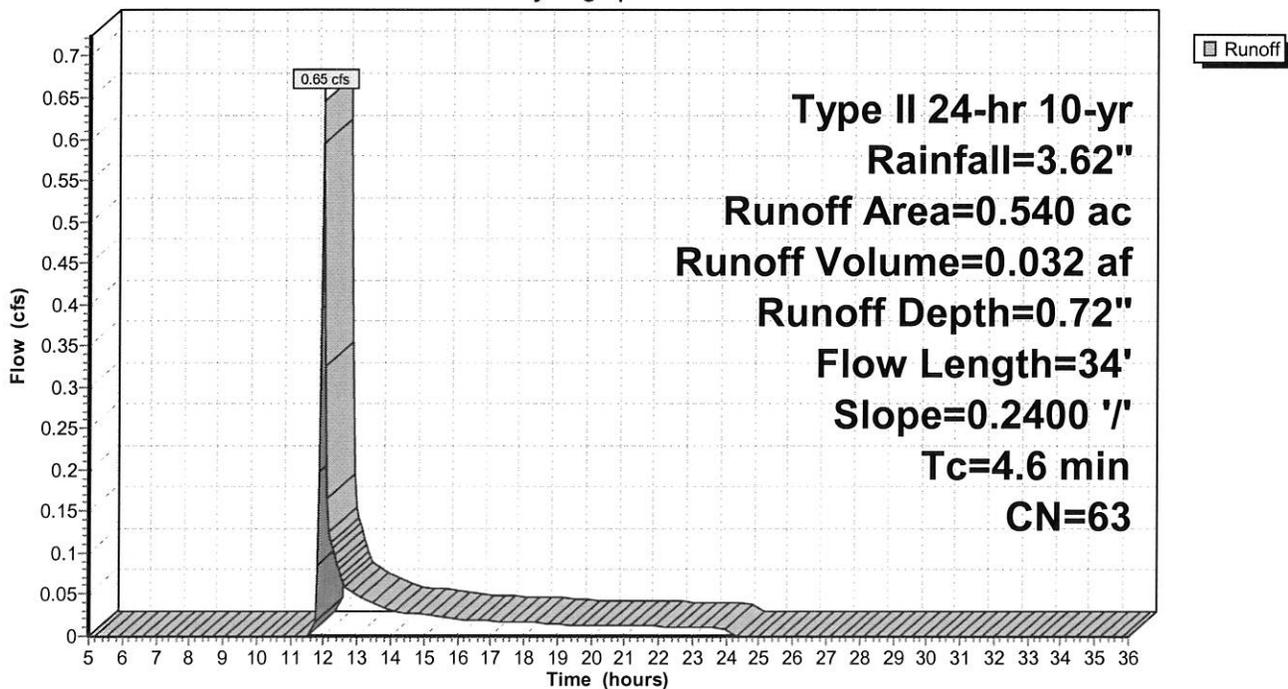
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 10-yr Rainfall=3.62"

Area (ac)	CN	Description
0.270	61	>75% Grass cover, Good, HSG B
0.120	55	Woods, Good, HSG B
0.150	72	Woods/grass comb., Good, HSG C
0.540	63	Weighted Average
0.540		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	34	0.2400	0.12		Sheet Flow, grass/woods n= 0.520 P2= 2.57"

Subcatchment P-8S: Area H (E)

Hydrograph



Summary for Pond 1P: Pond 3 (dry)

Inflow Area = 6.090 ac, 27.91% Impervious, Inflow Depth = 1.14" for 10-yr event
 Inflow = 4.32 cfs @ 12.42 hrs, Volume= 0.578 af
 Outflow = 1.90 cfs @ 12.98 hrs, Volume= 0.578 af, Atten= 56%, Lag= 33.1 min
 Discarded = 0.17 cfs @ 12.98 hrs, Volume= 0.103 af
 Primary = 1.72 cfs @ 12.98 hrs, Volume= 0.474 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 994.07' @ 12.98 hrs Surf.Area= 5,745 sf Storage= 6,323 cf

Plug-Flow detention time= 38.4 min calculated for 0.577 af (100% of inflow)
 Center-of-Mass det. time= 38.6 min (926.7 - 888.1)

Volume	Invert	Avail.Storage	Storage Description			
#1	992.50'	28,244 cf	Custom Stage Data (Irregular) Listed below			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
992.50	0	0.0	0	0	0	
993.00	4,633	335.0	772	772	8,931	
994.00	5,673	358.0	5,144	5,916	10,246	
995.00	6,781	380.0	6,219	12,135	11,590	
996.00	7,949	399.0	7,357	19,492	12,830	
997.00	9,580	437.0	8,752	28,244	15,392	

Device	Routing	Invert	Outlet Devices
#1	Discarded	992.50'	1.296 in/hr Exfiltration over Surface area
#2	Primary	992.50'	8.0" x 35.0' long Culvert CPP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 992.32' S= 0.0051 '/' Cc= 0.900 n= 0.011
#3	Secondary	996.50'	20.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

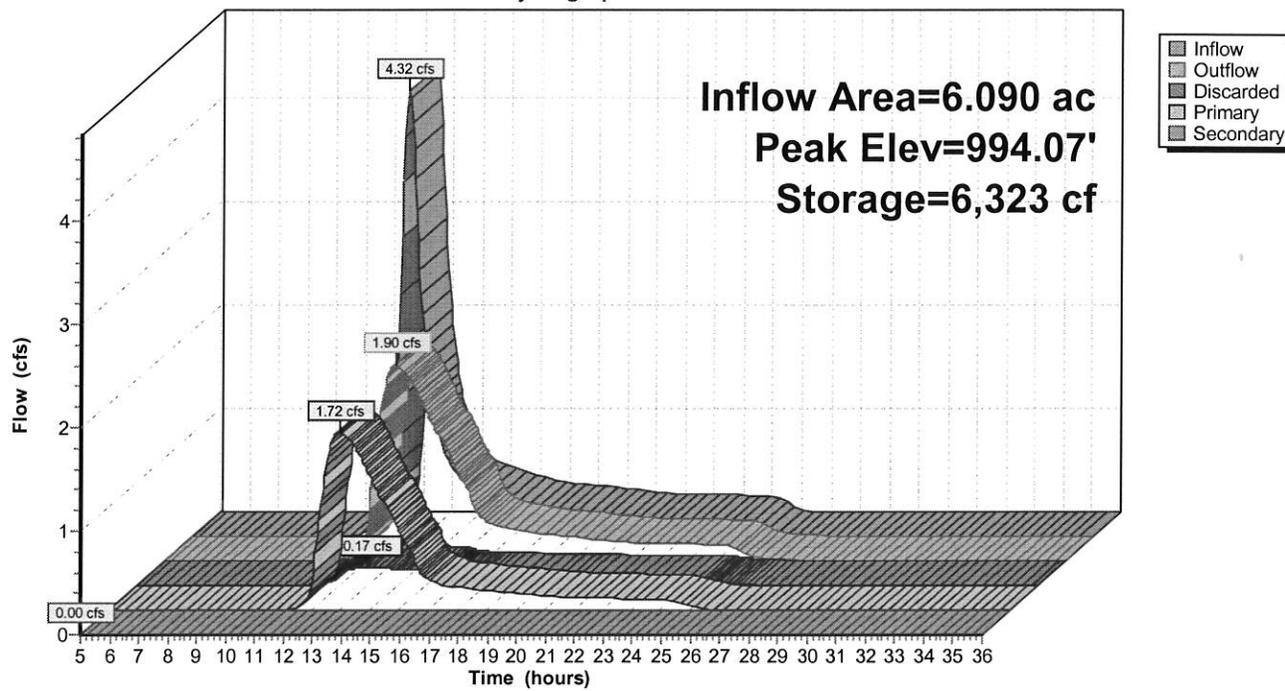
Discarded OutFlow Max=0.17 cfs @ 12.98 hrs HW=994.06' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.17 cfs)

Primary OutFlow Max=1.72 cfs @ 12.98 hrs HW=994.06' (Free Discharge)
 ↑2=Culvert (Barrel Controls 1.72 cfs @ 4.94 fps)

Secondary OutFlow Max=0.00 cfs @ 5.00 hrs HW=992.50' (Free Discharge)
 ↑3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 1P: Pond 3 (dry)

Hydrograph



Summary for Pond 2P: Infiltration Basin

[81] Warning: Exceeded Pond P1 by 0.51' @ 31.65 hrs

Inflow Area = 23.960 ac, 61.06% Impervious, Inflow Depth > 2.15" for 10-yr event
 Inflow = 3.75 cfs @ 13.82 hrs, Volume= 4.284 af
 Outflow = 3.72 cfs @ 14.67 hrs, Volume= 4.026 af, Atten= 1%, Lag= 51.0 min
 Discarded = 0.82 cfs @ 14.67 hrs, Volume= 1.584 af
 Primary = 2.90 cfs @ 14.67 hrs, Volume= 2.441 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 998.28' @ 14.67 hrs Surf.Area= 9,850 sf Storage= 18,087 cf

Plug-Flow detention time= 117.7 min calculated for 4.026 af (94% of inflow)
 Center-of-Mass det. time= 69.3 min (1,282.9 - 1,213.6)

Volume	Invert	Avail.Storage	Storage Description
#1	996.00'	51,736 cf	Custom Stage Data (Irregular) Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
996.00	6,106	382.0	0	0	6,106
997.00	7,685	407.0	6,880	6,880	7,724
998.00	9,364	433.0	8,511	15,391	9,512
999.00	11,150	458.0	10,244	25,635	11,340
1,000.00	13,035	483.0	12,080	37,715	13,270
1,001.00	15,030	508.0	14,021	51,736	15,303

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	15.0" x 94.0' long Culvert RCP, square edge headwall, Ke= 0.500 Outlet Invert= 995.51' S= 0.0052 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections
#2	Secondary	998.50'	25.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#3	Device 1	998.00'	6.0' long x 1.00' rise Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Discarded	996.00'	3.600 in/hr Exfiltration over Surface area

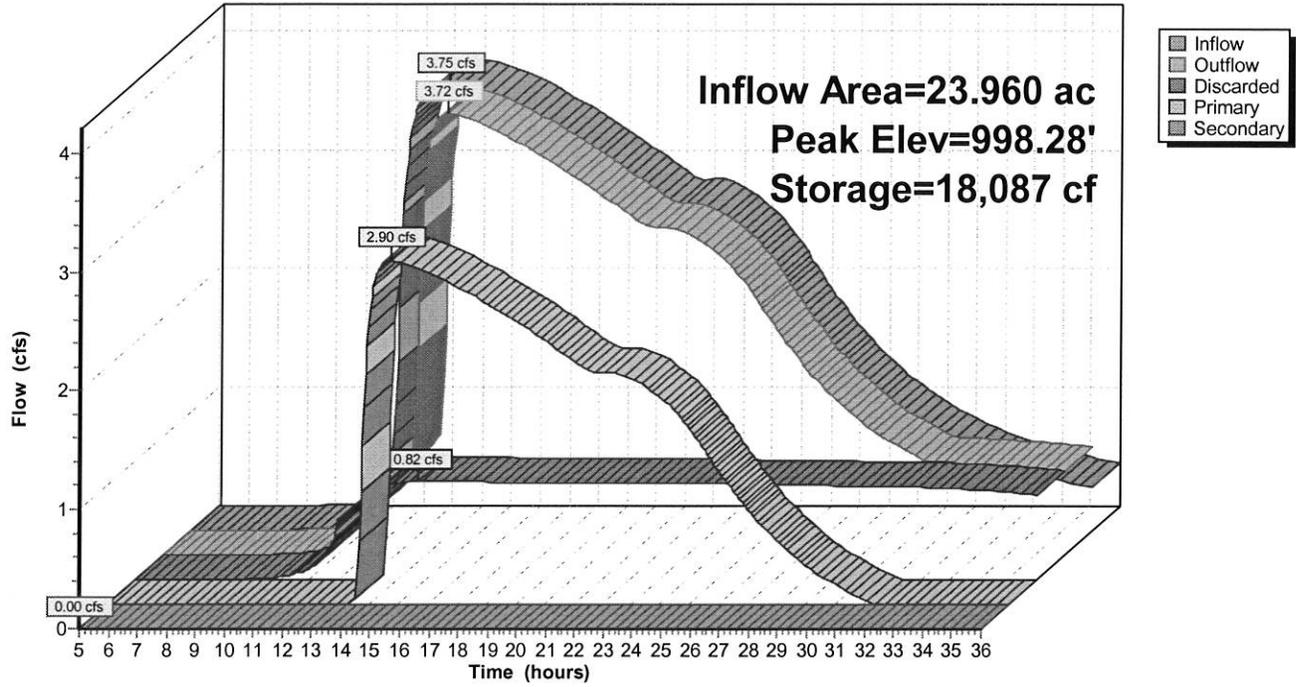
Discarded OutFlow Max=0.82 cfs @ 14.67 hrs HW=998.28' (Free Discharge)
 ↑4=Exfiltration (Exfiltration Controls 0.82 cfs)

Primary OutFlow Max=2.89 cfs @ 14.67 hrs HW=998.28' (Free Discharge)
 ↑1=Culvert (Passes 2.89 cfs of 6.32 cfs potential flow)
 ↑3=Sharp-Crested Rectangular Weir (Weir Controls 2.89 cfs @ 1.73 fps)

Secondary OutFlow Max=0.00 cfs @ 5.00 hrs HW=996.00' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 2P: Infiltration Basin

Hydrograph



Summary for Pond P1: Pond 1

Inflow Area = 23.960 ac, 61.06% Impervious, Inflow Depth = 2.38" for 10-yr event
 Inflow = 57.07 cfs @ 12.16 hrs, Volume= 4.749 af
 Outflow = 3.75 cfs @ 13.82 hrs, Volume= 4.284 af, Atten= 93%, Lag= 99.4 min
 Primary = 3.75 cfs @ 13.82 hrs, Volume= 4.284 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 999.02' @ 13.82 hrs Surf.Area= 69,688 sf Storage= 125,590 cf

Plug-Flow detention time= 439.4 min calculated for 4.277 af (90% of inflow)
 Center-of-Mass det. time= 390.3 min (1,213.6 - 823.3)

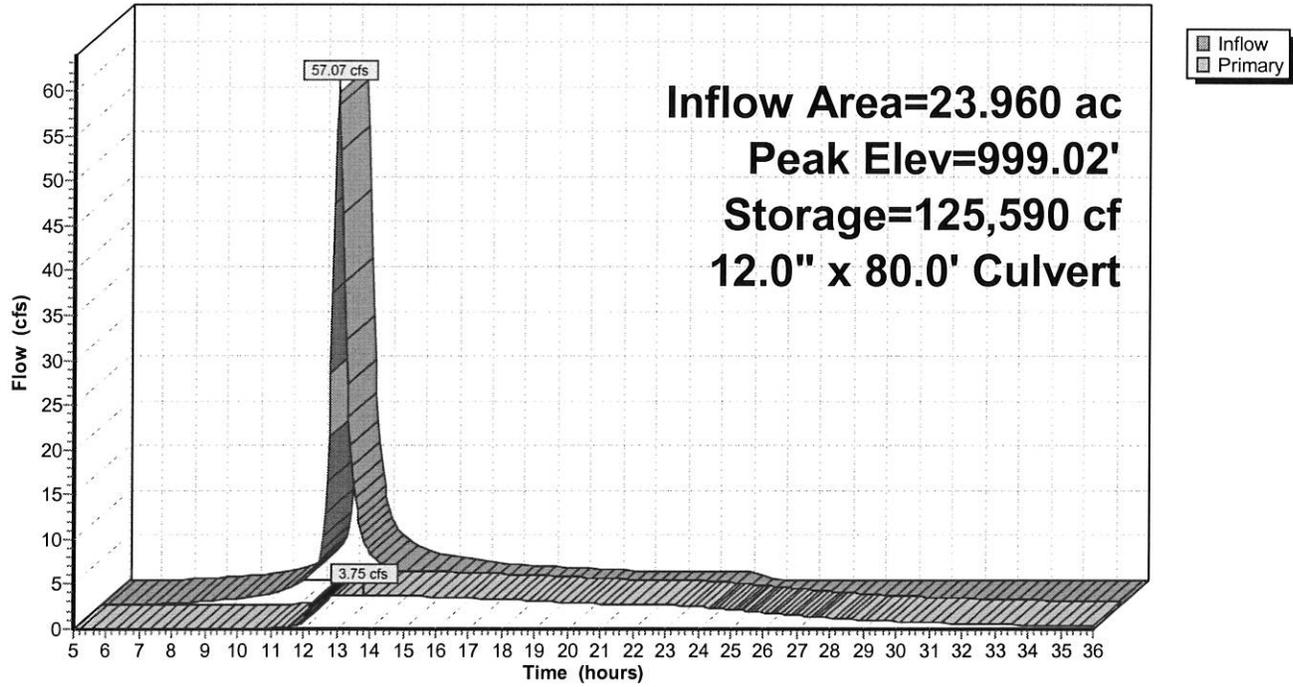
Volume	Invert	Avail.Storage	Storage Description		
#1	997.00'	671,679 cf	Custom Stage Data (Irregular) Listed below		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
997.00	54,341	1,290.9	0	0	54,341
998.00	62,100	1,365.2	58,177	58,177	70,102
999.00	69,541	1,434.3	65,785	123,963	85,559
1,000.00	76,123	1,481.8	72,807	196,770	96,678
1,001.00	82,827	1,527.5	79,451	276,221	107,724
1,002.00	89,703	1,570.1	86,242	362,464	118,339
1,003.00	96,677	1,614.3	93,168	455,632	129,652
1,004.00	105,446	1,687.5	101,030	556,662	148,956
1,005.00	124,863	1,808.9	115,018	671,679	182,779

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	12.0" x 80.0' long Culvert RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 996.60' S= 0.0050 '/' Cc= 0.900 n= 0.013

Primary OutFlow Max=3.75 cfs @ 13.82 hrs HW=999.02' (Free Discharge)
 ←1=Culvert (Barrel Controls 3.75 cfs @ 4.78 fps)

Pond P1: Pond 1

Hydrograph



Summary for Pond P2: Pond 2 (Dry)

Inflow Area = 16.220 ac, 6.17% Impervious, Inflow Depth = 0.92" for 10-yr event
 Inflow = 7.88 cfs @ 12.54 hrs, Volume= 1.241 af
 Outflow = 6.65 cfs @ 12.76 hrs, Volume= 1.241 af, Atten= 16%, Lag= 13.1 min
 Primary = 6.65 cfs @ 12.76 hrs, Volume= 1.241 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,003.12' @ 12.76 hrs Surf.Area= 5,041 sf Storage= 2,845 cf

Plug-Flow detention time= 7.0 min calculated for 1.239 af (100% of inflow)
 Center-of-Mass det. time= 7.2 min (920.5 - 913.4)

Volume	Invert	Avail.Storage	Storage Description
#1	1,001.16'	39,351 cf	Custom Stage Data (Irregular) Listed below

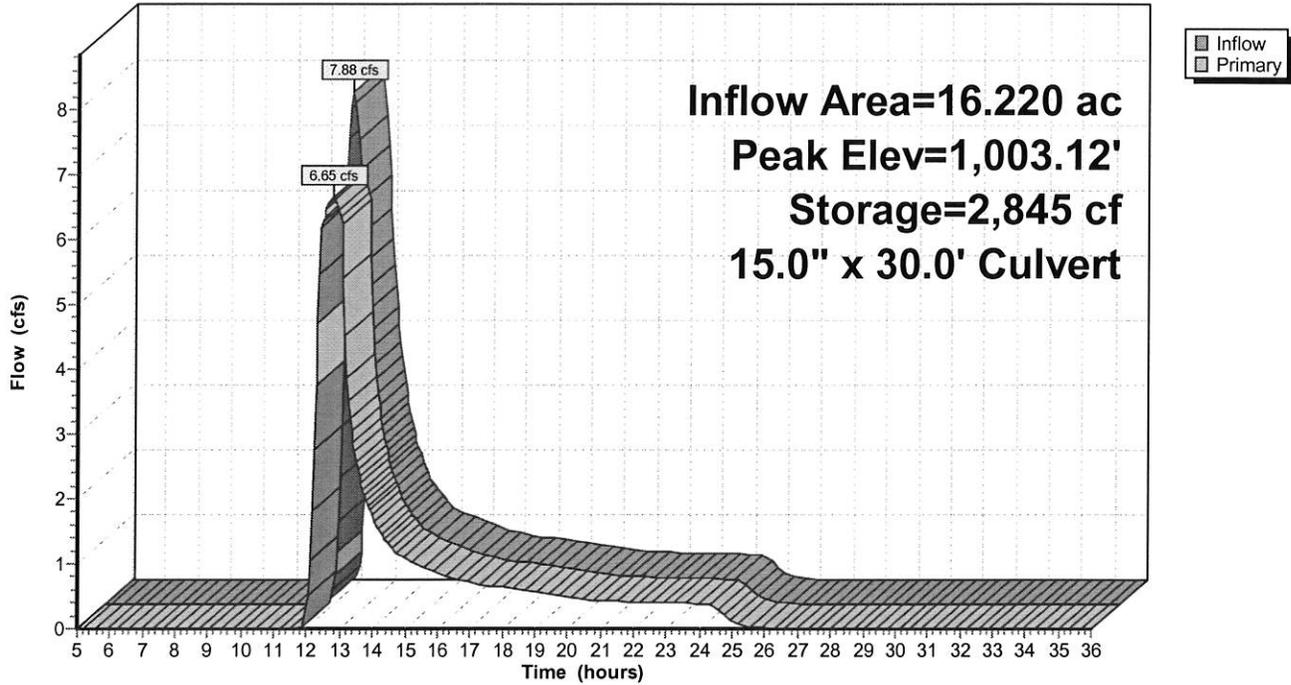
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
1,001.16	0	0.0	0	0	0
1,003.00	2,423	227.0	1,486	1,486	4,106
1,004.00	25,153	979.0	11,794	13,280	76,278
1,005.00	27,000	1,000.0	26,071	39,351	79,730

Device	Routing	Invert	Outlet Devices
#1	Primary	1,001.16'	15.0" x 30.0' long Culvert RCP, groove end projecting, Ke= 0.200 Outlet Invert= 1,001.00' S= 0.0053 '/' Cc= 0.900 n= 0.013

Primary OutFlow Max=6.64 cfs @ 12.76 hrs HW=1,003.11' (Free Discharge)
 ←1=Culvert (Barrel Controls 6.64 cfs @ 5.41 fps)

Pond P2: Pond 2 (Dry)

Hydrograph



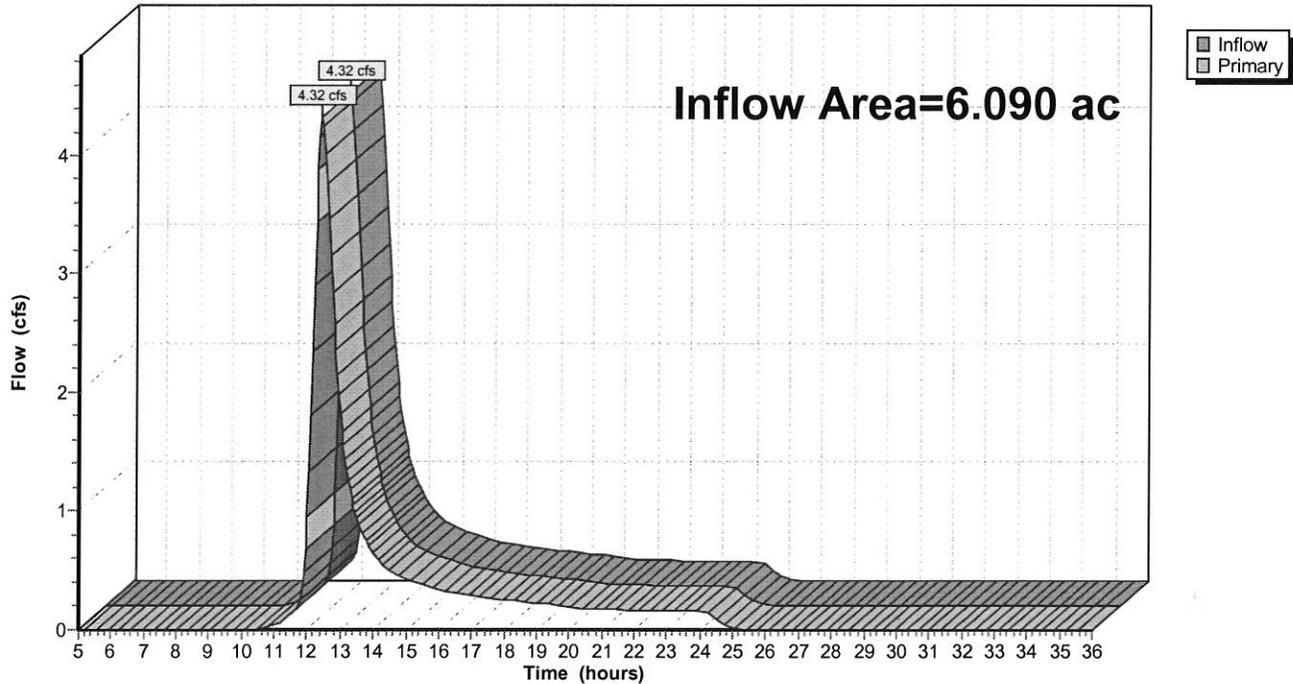
Summary for Link P-1L: North Discharge

Inflow Area = 6.090 ac, 27.91% Impervious, Inflow Depth = 1.14" for 10-yr event
Inflow = 4.32 cfs @ 12.42 hrs, Volume= 0.578 af
Primary = 4.32 cfs @ 12.42 hrs, Volume= 0.578 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-1L: North Discharge

Hydrograph



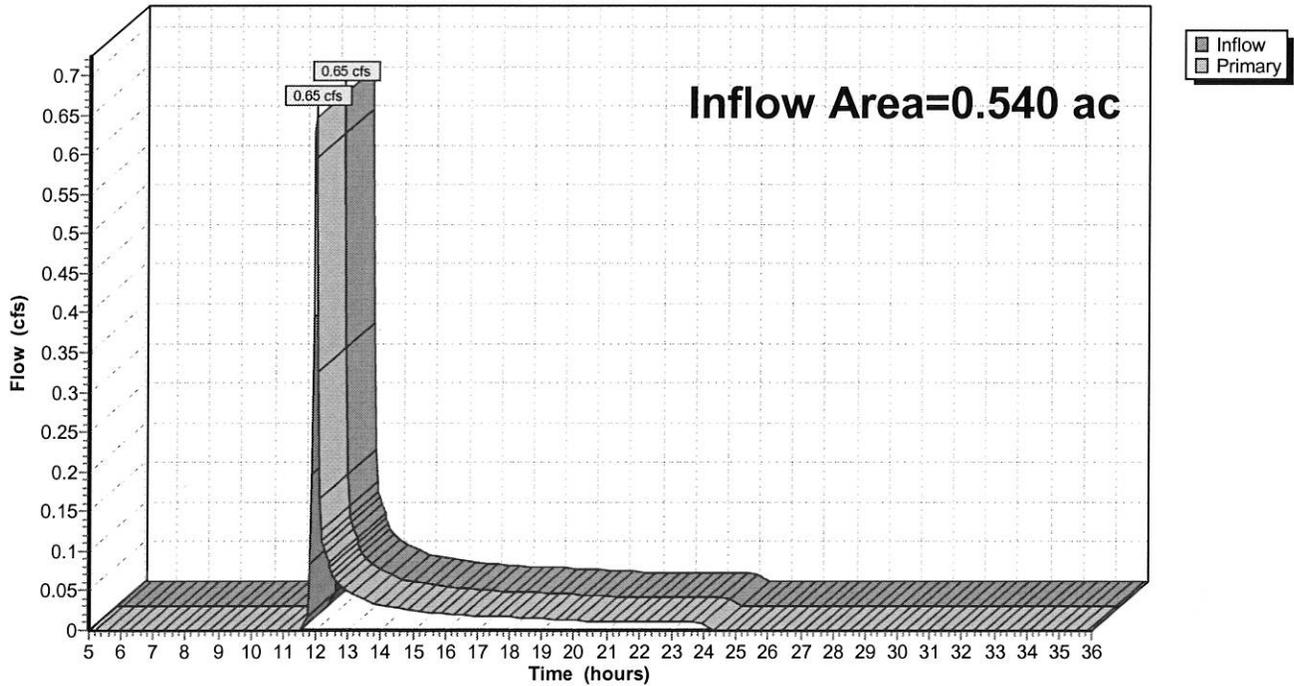
Summary for Link P-3L: East Discharge

Inflow Area = 0.540 ac, 0.00% Impervious, Inflow Depth = 0.72" for 10-yr event
Inflow = 0.65 cfs @ 11.97 hrs, Volume= 0.032 af
Primary = 0.65 cfs @ 11.97 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-3L: East Discharge

Hydrograph

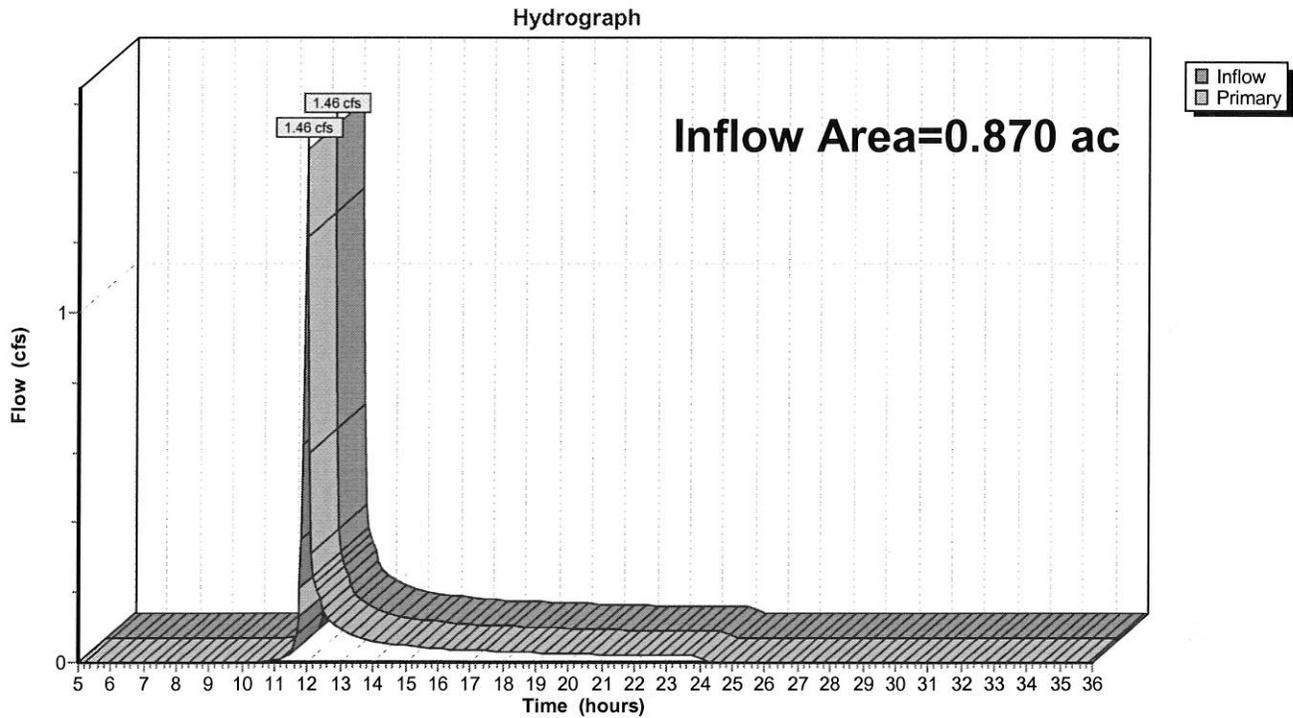


Summary for Link P-4L: South & East Discharge

Inflow Area = 0.870 ac, 0.00% Impervious, Inflow Depth = 0.95" for 10-yr event
Inflow = 1.46 cfs @ 11.96 hrs, Volume= 0.069 af
Primary = 1.46 cfs @ 11.96 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-4L: South & East Discharge



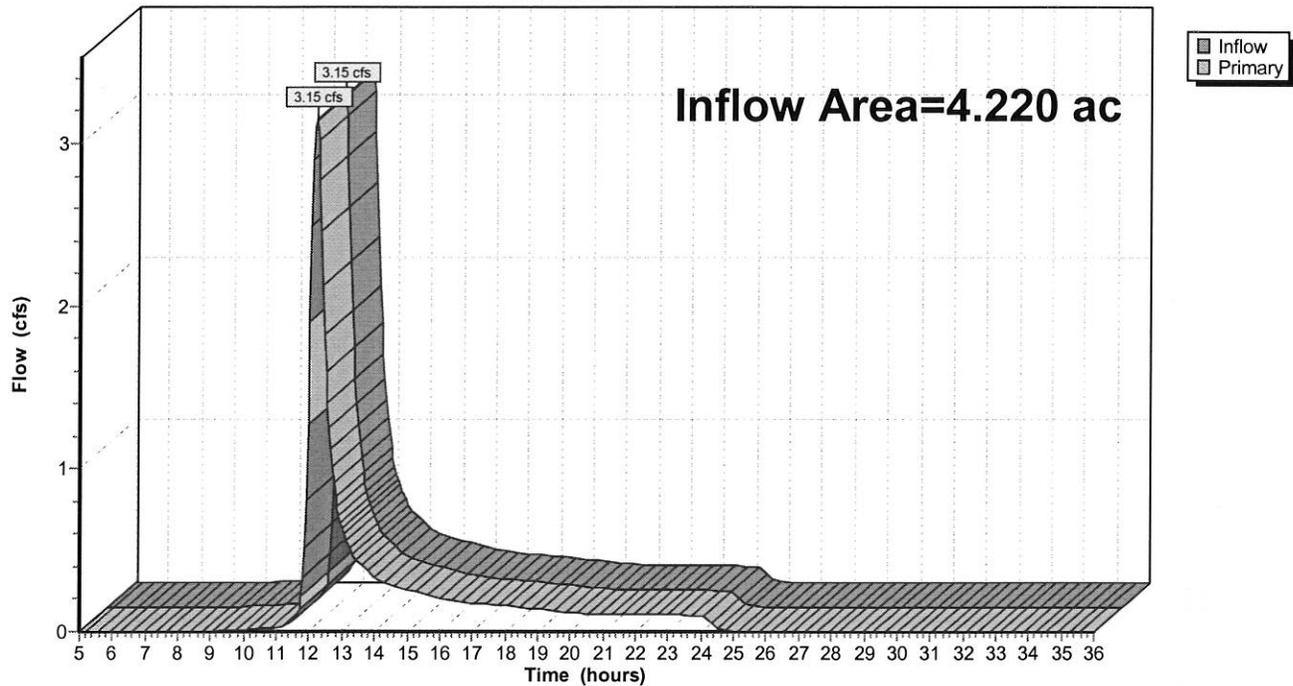
Summary for Link P-5L: West Discharge

Inflow Area = 4.220 ac, 3.55% Impervious, Inflow Depth = 0.97" for 10-yr event
Inflow = 3.15 cfs @ 12.19 hrs, Volume= 0.341 af
Primary = 3.15 cfs @ 12.19 hrs, Volume= 0.341 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-5L: West Discharge

Hydrograph

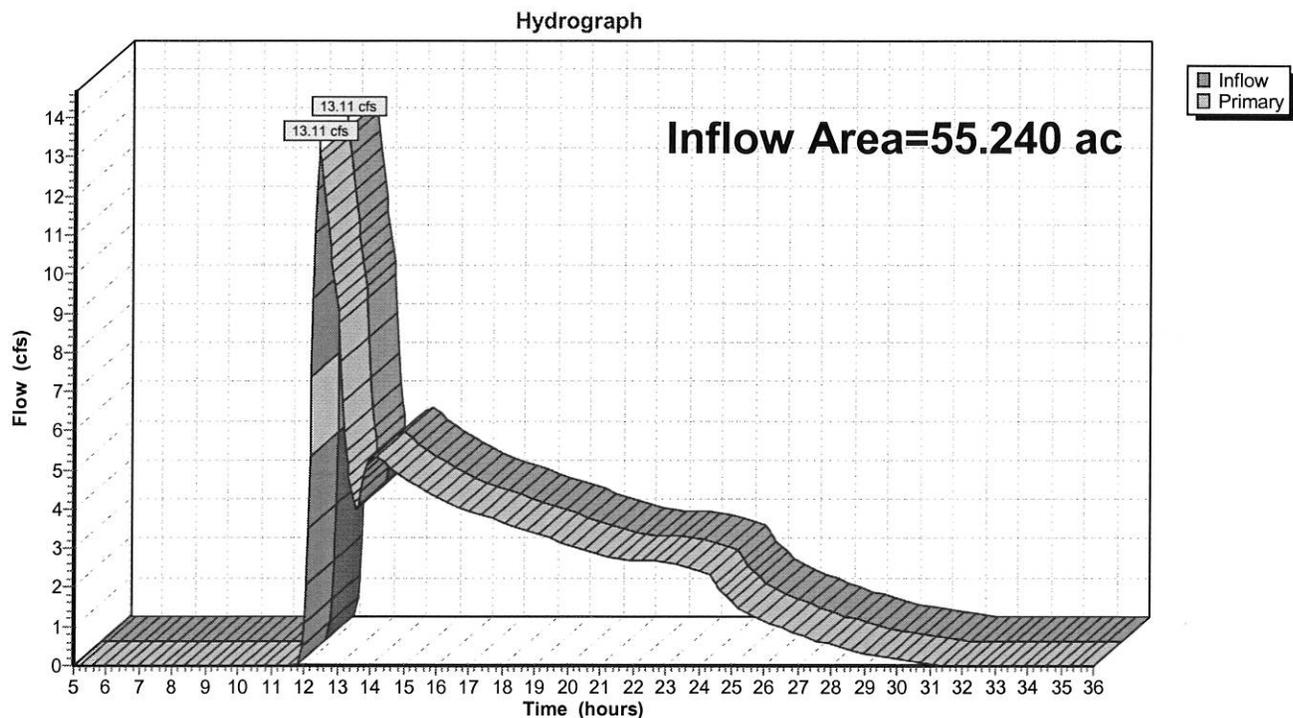


Summary for Link P-6L: Mid Site Discharge

Inflow Area = 55.240 ac, 29.20% Impervious, Inflow Depth = 1.01" for 10-yr event
Inflow = 13.11 cfs @ 12.42 hrs, Volume= 4.645 af
Primary = 13.11 cfs @ 12.42 hrs, Volume= 4.645 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-6L: Mid Site Discharge

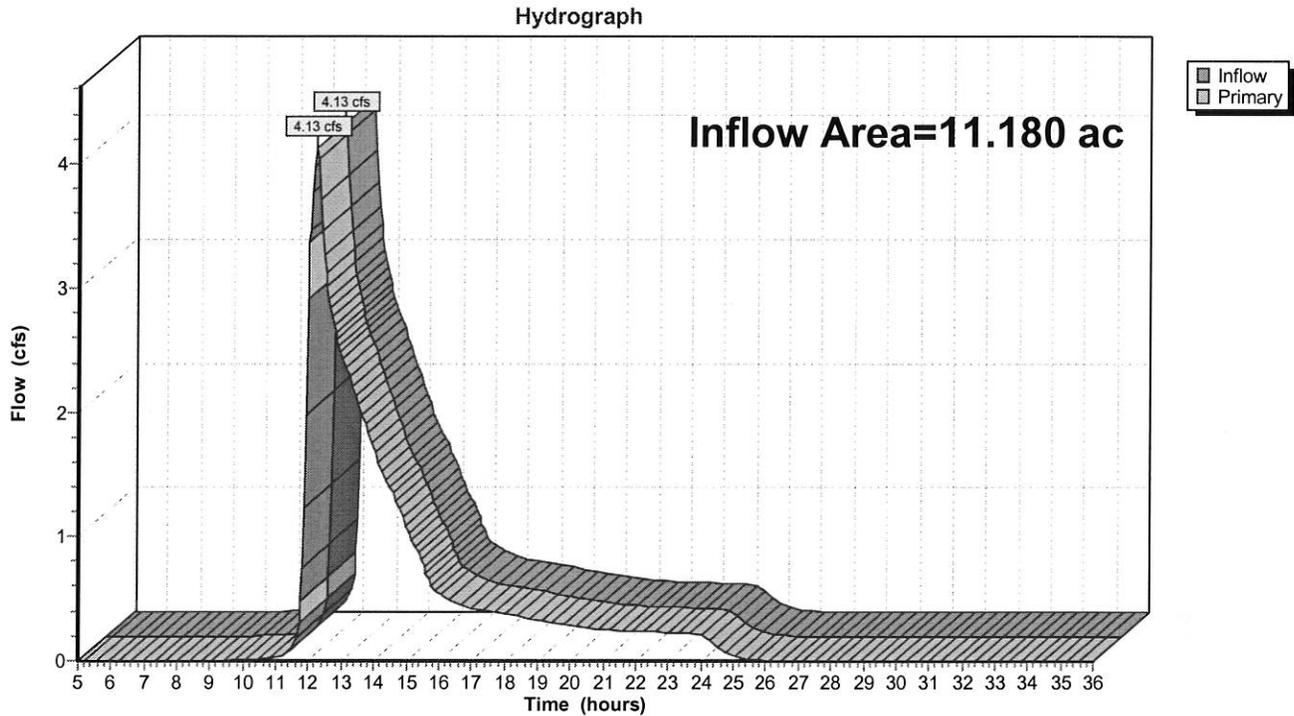


Summary for Link P-7L: Proposed Discharge (Site)

Inflow Area = 11.180 ac, 16.55% Impervious, Inflow Depth = 0.95" for 10-yr event
Inflow = 4.13 cfs @ 12.22 hrs, Volume= 0.884 af
Primary = 4.13 cfs @ 12.22 hrs, Volume= 0.884 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-7L: Proposed Discharge (Site)



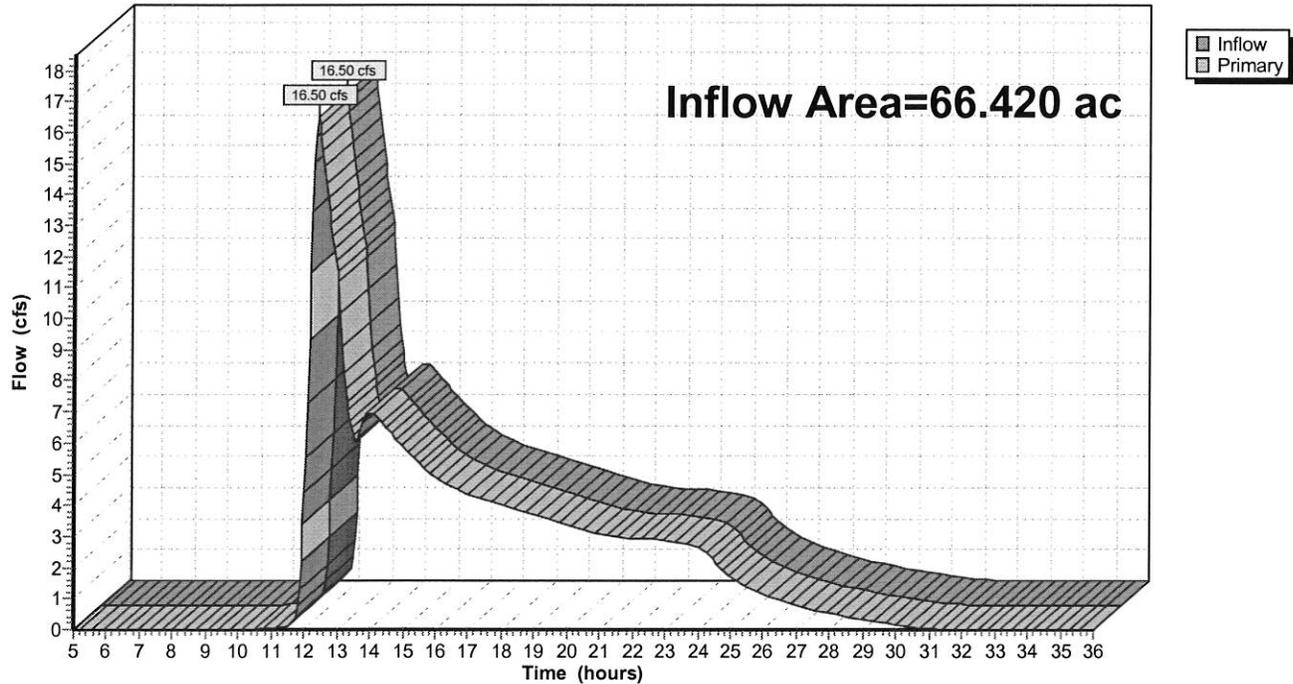
Summary for Link P-8L: Proposed Discharge Total

Inflow Area = 66.420 ac, 27.07% Impervious, Inflow Depth = 1.00" for 10-yr event
Inflow = 16.50 cfs @ 12.41 hrs, Volume= 5.529 af
Primary = 16.50 cfs @ 12.41 hrs, Volume= 5.529 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-8L: Proposed Discharge Total

Hydrograph



04C1648 - Proposed (06-19-08)

Type II 24-hr 100-yr Rainfall=5.88"

Prepared by Jenkins Survey and Design

Printed 7/29/2008

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Time span=5.00-36.00 hrs, dt=0.05 hrs, 621 points

Runoff by SCS TR-20 method, UH=SCS

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment P-10S: Area J (S)	Runoff Area=0.330 ac 0.00% Impervious Runoff Depth=3.08" Flow Length=52' Tc=3.7 min CN=74 Runoff=1.92 cfs 0.085 af
Subcatchment P-11S: Area K, Offsite (W)	Runoff Area=0.370 ac 40.54% Impervious Runoff Depth=4.08" Flow Length=80' Slope=0.0250 '/' Tc=12.2 min CN=84 Runoff=2.08 cfs 0.126 af
Subcatchment P-2S: Area B (Mid Site)	Runoff Area=16.220 ac 6.17% Impervious Runoff Depth=2.44" Flow Length=1,009' Tc=48.6 min CN=67 Runoff=23.82 cfs 3.298 af
Subcatchment P-3S: Area C (N)	Runoff Area=4.290 ac 39.63% Impervious Runoff Depth=3.28" Flow Length=412' Slope=0.0160 '/' Tc=42.8 min CN=76 Runoff=9.57 cfs 1.171 af
Subcatchment P-4S: Area D, Offsite (N)	Runoff Area=1.800 ac 0.00% Impervious Runoff Depth=1.45" Flow Length=150' Slope=0.0432 '/' Tc=42.4 min CN=55 Runoff=1.51 cfs 0.217 af
Subcatchment P-5S: Area E (W)	Runoff Area=3.850 ac 0.00% Impervious Runoff Depth=2.35" Flow Length=180' Slope=0.0194 '/' Tc=25.8 min CN=66 Runoff=8.40 cfs 0.754 af
Subcatchment P-6S: Area F (Mid Site)	Runoff Area=15.060 ac 3.32% Impervious Runoff Depth=2.18" Flow Length=493' Tc=37.7 min CN=64 Runoff=23.22 cfs 2.734 af
Subcatchment P-7S: Area G	Runoff Area=23.960 ac 61.06% Impervious Runoff Depth>4.51" Flow Length=1,120' Tc=23.6 min CN=88 Runoff=105.97 cfs 9.000 af
Subcatchment P-8S: Area H (E)	Runoff Area=0.540 ac 0.00% Impervious Runoff Depth=2.09" Flow Length=34' Slope=0.2400 '/' Tc=4.6 min CN=63 Runoff=2.06 cfs 0.094 af
Pond 1P: Pond 3 (dry)	Peak Elev=996.16' Storage=20,896 cf Inflow=11.06 cfs 1.389 af Discarded=0.25 cfs 0.171 af Primary=2.96 cfs 1.218 af Secondary=0.00 cfs 0.000 af Outflow=3.20 cfs 1.389 af
Pond 2P: Infiltration Basin	Peak Elev=998.39' Storage=19,157 cf Inflow=5.53 cfs 8.091 af Discarded=0.84 cfs 1.729 af Primary=4.69 cfs 5.990 af Secondary=0.00 cfs 0.000 af Outflow=5.53 cfs 7.719 af
Pond P1: Pond 1	Peak Elev=1,000.69' Storage=251,382 cf Inflow=105.97 cfs 9.000 af 12.0" x 80.0' Culvert Outflow=5.53 cfs 8.091 af
Pond P2: Pond 2 (Dry)	Peak Elev=1,004.66' Storage=30,570 cf Inflow=23.82 cfs 3.298 af 15.0" x 30.0' Culvert Outflow=11.10 cfs 3.298 af
Link P-1L: North Discharge	Inflow=11.06 cfs 1.389 af Primary=11.06 cfs 1.389 af
Link P-3L: East Discharge	Inflow=2.06 cfs 0.094 af Primary=2.06 cfs 0.094 af
Link P-4L: South & East Discharge	Inflow=3.97 cfs 0.179 af Primary=3.97 cfs 0.179 af

04C1648 - Proposed (06-19-08)

Prepared by Jenkins Survey and Design

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Type II 24-hr 100-yr Rainfall=5.88"

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Link P-5L: West Discharge

Inflow=9.32 cfs 0.880 af
Primary=9.32 cfs 0.880 af

Link P-6L: Mid Site Discharge

Inflow=31.82 cfs 12.022 af
Primary=31.82 cfs 12.022 af

Link P-7L: Proposed Discharge (Site)

Inflow=11.22 cfs 2.278 af
Primary=11.22 cfs 2.278 af

Link P-8L: Proposed Discharge Total

Inflow=40.87 cfs 14.299 af
Primary=40.87 cfs 14.299 af

Total Runoff Area = 66.420 ac Runoff Volume = 17.480 af Average Runoff Depth = 3.16"
72.93% Pervious = 48.440 ac 27.07% Impervious = 17.980 ac

Summary for Subcatchment P-10S: Area J (S)

[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 1.92 cfs @ 11.94 hrs, Volume= 0.085 af, Depth= 3.08"

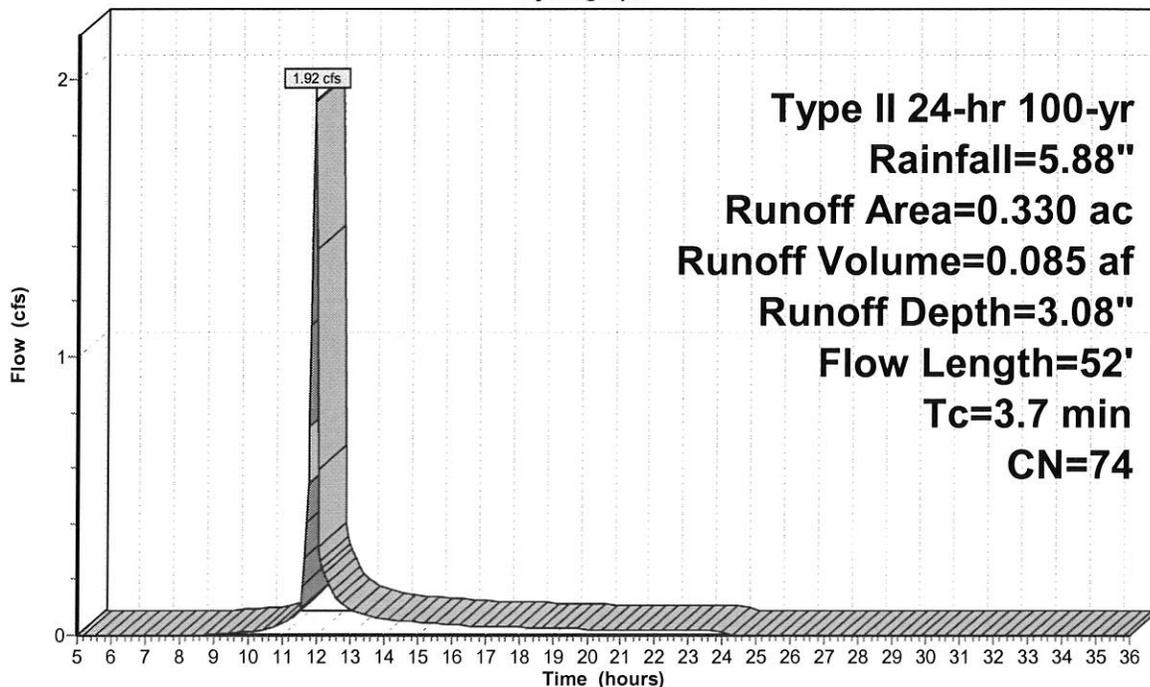
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, $dt= 0.05$ hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
0.330	74	>75% Grass cover, Good, HSG C
0.330		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.6	40	0.0500	0.18		Sheet Flow, grass Grass: Short $n= 0.150$ $P2= 2.57"$
0.1	12	0.0340	2.97		Shallow Concentrated Flow, grass Unpaved $K_v= 16.1$ fps
3.7	52	Total			

Subcatchment P-10S: Area J (S)

Hydrograph



Summary for Subcatchment P-11S: Area K, Offsite (W)

Runoff = 2.08 cfs @ 12.04 hrs, Volume= 0.126 af, Depth= 4.08"

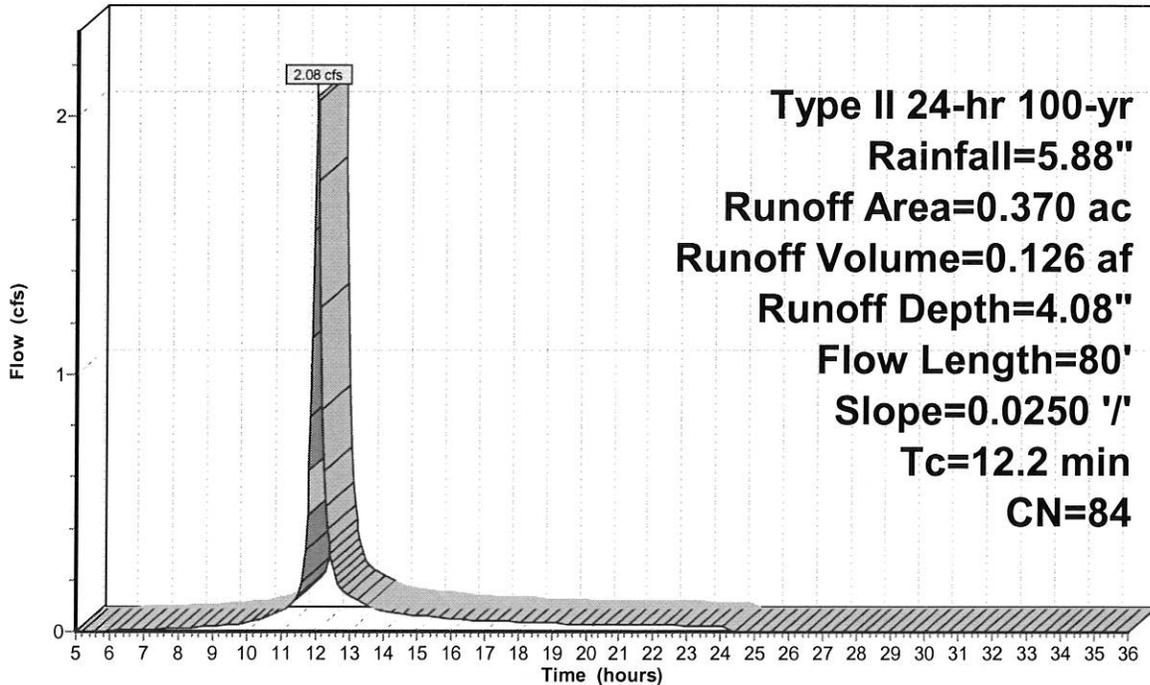
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
0.220	74	>75% Grass cover, Good, HSG C
* 0.150	98	
0.370	84	Weighted Average
0.220		Pervious Area
0.150		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.2	80	0.0250	0.11		Sheet Flow, grass Grass: Dense n= 0.240 P2= 2.57"

Subcatchment P-11S: Area K, Offsite (W)

Hydrograph



Summary for Subcatchment P-2S: Area B (Mid Site)

Runoff = 23.82 cfs @ 12.49 hrs, Volume= 3.298 af, Depth= 2.44"

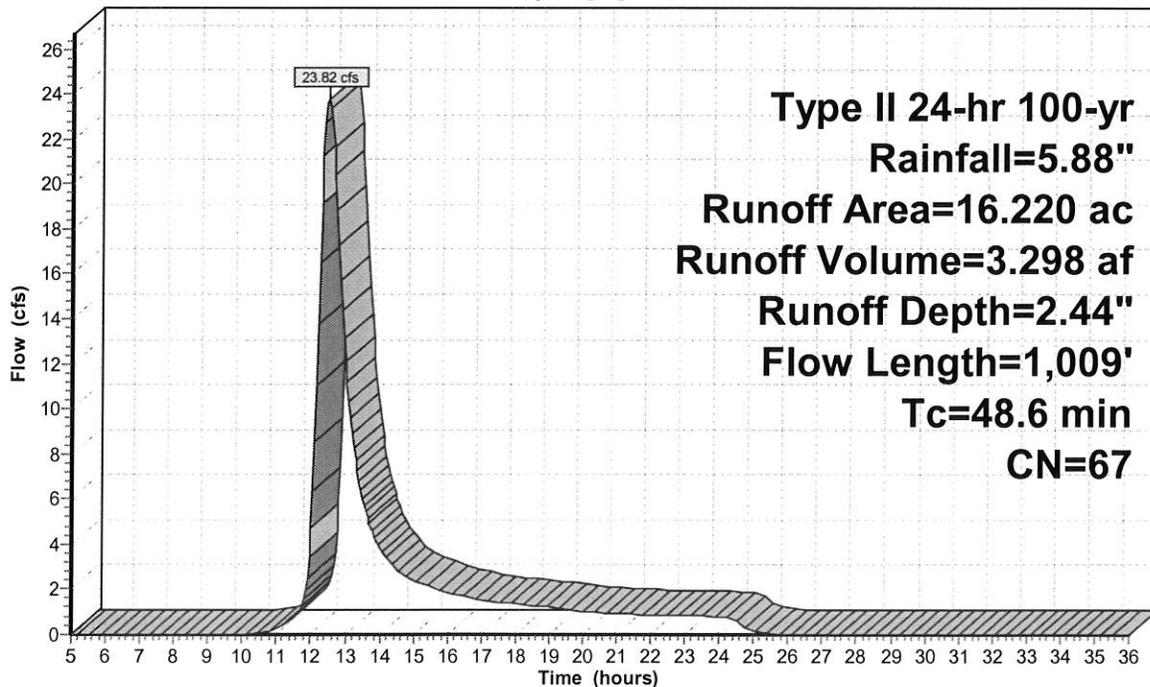
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
10.000	61	>75% Grass cover, Good, HSG B
* 1.000	98	
5.220	74	>75% Grass cover, Good, HSG C
16.220	67	Weighted Average
15.220		Pervious Area
1.000		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
43.0	300	0.0150	0.12		Sheet Flow, Soccer Field Grass: Dense n= 0.240 P2= 2.57"
5.6	709	0.0169	2.09		Shallow Concentrated Flow, shallow conentrated Unpaved Kv= 16.1 fps
48.6	1,009	Total			

Subcatchment P-2S: Area B (Mid Site)

Hydrograph



Summary for Subcatchment P-3S: Area C (N)

Runoff = 9.57 cfs @ 12.40 hrs, Volume= 1.171 af, Depth= 3.28"

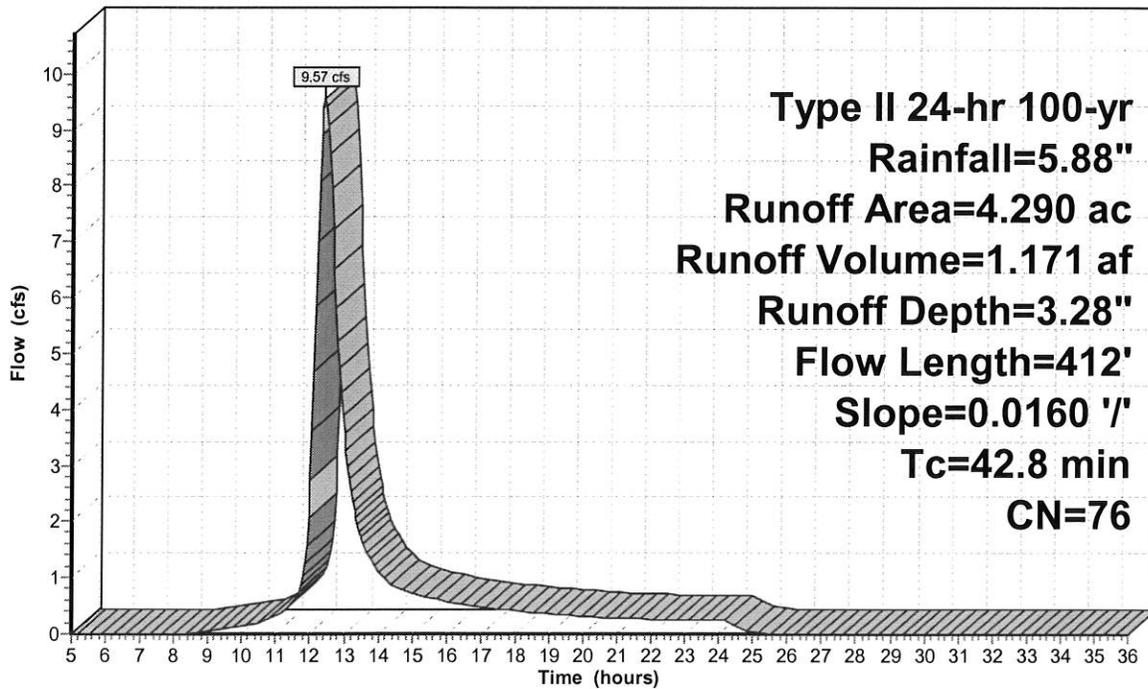
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
2.590	61	>75% Grass cover, Good, HSG B
* 1.700	98	
4.290	76	Weighted Average
2.590		Pervious Area
1.700		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
41.9	300	0.0160	0.12		Sheet Flow, Soccer Field Grass: Dense n= 0.240 P2= 2.57"
0.9	112	0.0160	2.04		Shallow Concentrated Flow, Soccer Field Unpaved Kv= 16.1 fps
42.8	412	Total			

Subcatchment P-3S: Area C (N)

Hydrograph



Summary for Subcatchment P-4S: Area D, Offsite (N)

Runoff = 1.51 cfs @ 12.45 hrs, Volume= 0.217 af, Depth= 1.45"

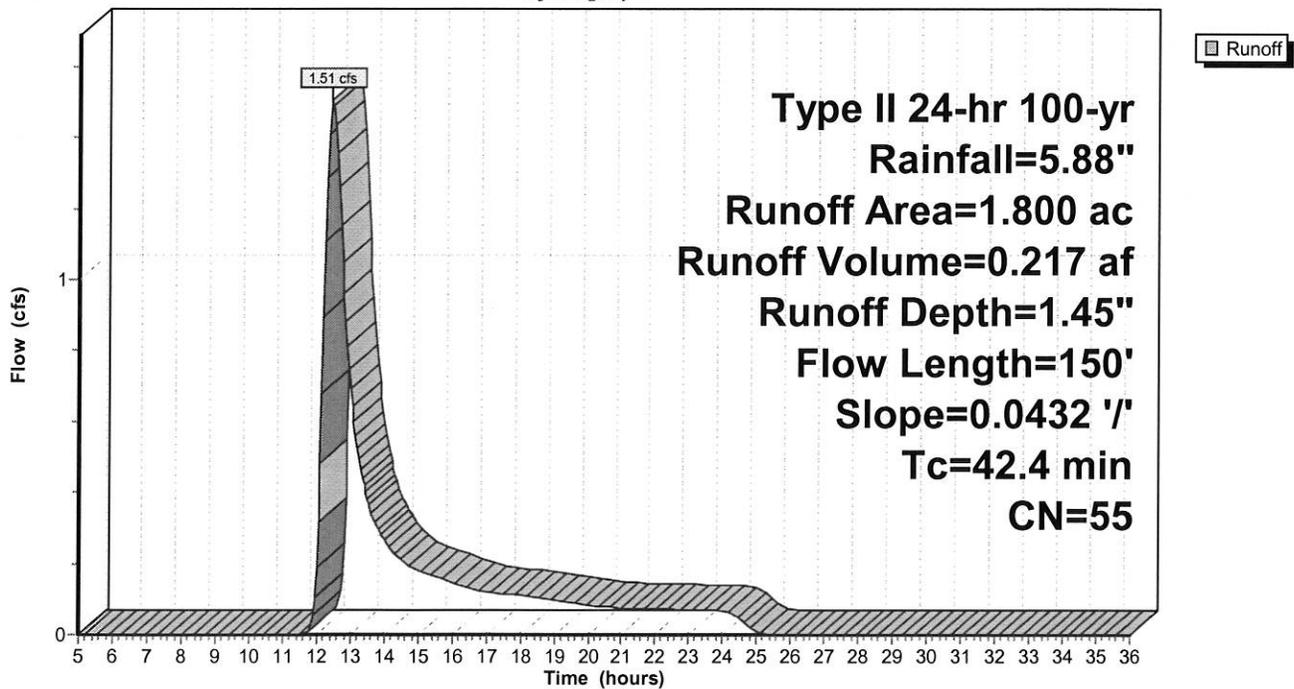
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
1.800	55	Woods, Good, HSG B
1.800		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.4	150	0.0432	0.06		Sheet Flow, Woods Woods: Dense underbrush n= 0.800 P2= 2.57"

Subcatchment P-4S: Area D, Offsite (N)

Hydrograph



Summary for Subcatchment P-5S: Area E (W)

Runoff = 8.40 cfs @ 12.21 hrs, Volume= 0.754 af, Depth= 2.35"

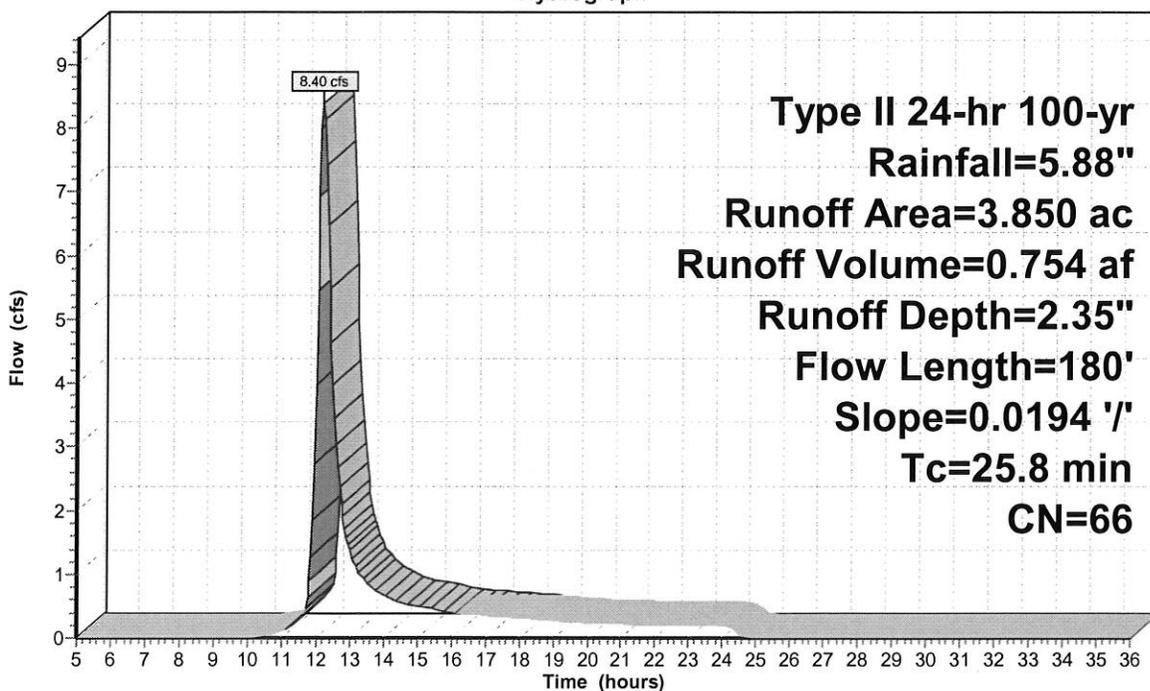
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
2.330	61	>75% Grass cover, Good, HSG B
1.520	74	>75% Grass cover, Good, HSG C
3.850	66	Weighted Average
3.850		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.8	180	0.0194	0.12		Sheet Flow, Grass Grass: Dense n=0.240 P2= 2.57"

Subcatchment P-5S: Area E (W)

Hydrograph



Summary for Subcatchment P-6S: Area F (Mid Site)

Runoff = 23.22 cfs @ 12.36 hrs, Volume= 2.734 af, Depth= 2.18"

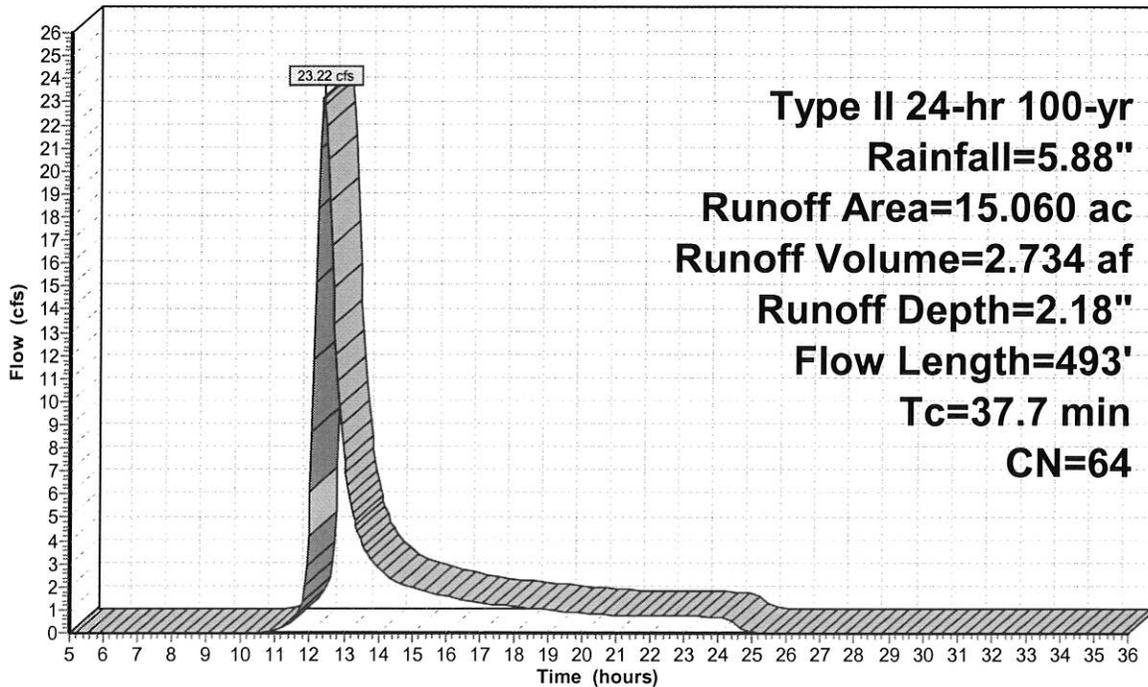
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
2.720	61	>75% Grass cover, Good, HSG B
7.650	58	Woods/grass comb., Good, HSG B
* 0.500	98	
4.190	72	Woods/grass comb., Good, HSG C
15.060	64	Weighted Average
14.560		Pervious Area
0.500		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.5	212	0.0113	0.10		Sheet Flow, baseball field, grass Grass: Dense n= 0.240 P2= 2.57"
1.2	281	0.0569	3.84		Shallow Concentrated Flow, grass Unpaved Kv= 16.1 fps
37.7	493	Total			

Subcatchment P-6S: Area F (Mid Site)

Hydrograph



Runoff

**Type II 24-hr 100-yr
 Rainfall=5.88"
 Runoff Area=15.060 ac
 Runoff Volume=2.734 af
 Runoff Depth=2.18"
 Flow Length=493'
 Tc=37.7 min
 CN=64**

Summary for Subcatchment P-7S: Area G

Runoff = 105.97 cfs @ 12.16 hrs, Volume= 9.000 af, Depth> 4.51"

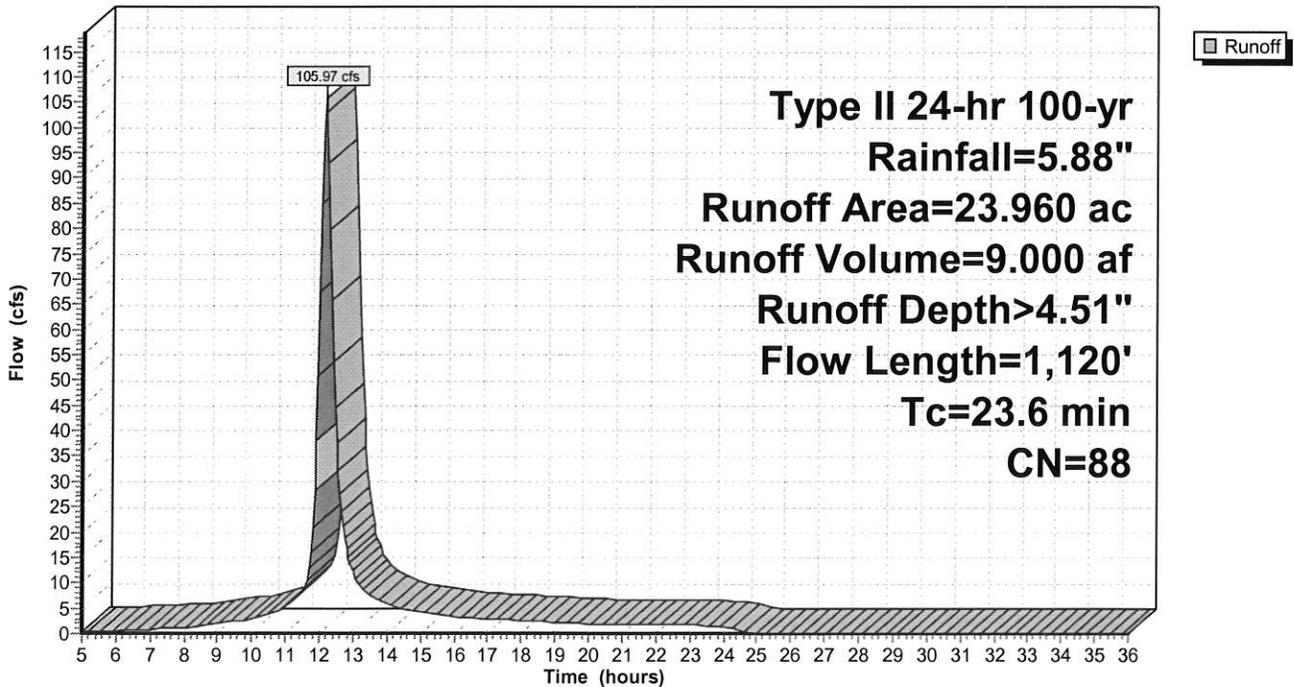
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
* 14.630	98	
1.000	61	>75% Grass cover, Good, HSG B
8.330	74	>75% Grass cover, Good, HSG C
23.960	88	Weighted Average
9.330		Pervious Area
14.630		Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.2	240	0.0500	0.18		Sheet Flow, grass Grass: Dense n= 0.240 P2= 2.57"
1.4	880	0.0200	10.18	31.99	Circular Channel (pipe), RCP Diam= 24.0" Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
23.6	1,120	Total			

Subcatchment P-7S: Area G

Hydrograph



Summary for Subcatchment P-8S: Area H (E)

[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 2.06 cfs @ 11.96 hrs, Volume= 0.094 af, Depth= 2.09"

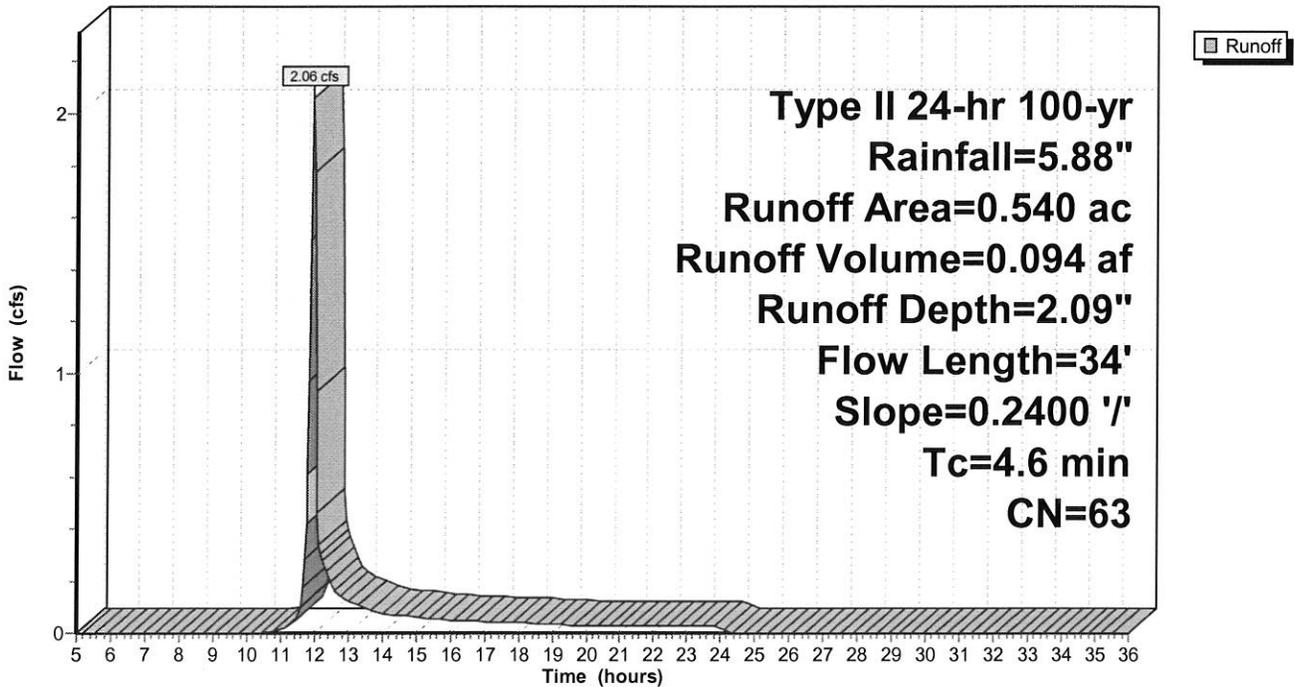
Runoff by SCS TR-20 method, UH=SCS, Time Span= 5.00-36.00 hrs, $dt= 0.05$ hrs
 Type II 24-hr 100-yr Rainfall=5.88"

Area (ac)	CN	Description
0.270	61	>75% Grass cover, Good, HSG B
0.120	55	Woods, Good, HSG B
0.150	72	Woods/grass comb., Good, HSG C
0.540	63	Weighted Average
0.540		Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	34	0.2400	0.12		Sheet Flow, grass/woods n= 0.520 P2= 2.57"

Subcatchment P-8S: Area H (E)

Hydrograph



Summary for Pond 1P: Pond 3 (dry)

Inflow Area = 6.090 ac, 27.91% Impervious, Inflow Depth = 2.74" for 100-yr event
 Inflow = 11.06 cfs @ 12.41 hrs, Volume= 1.389 af
 Outflow = 3.20 cfs @ 13.17 hrs, Volume= 1.389 af, Atten= 71%, Lag= 45.9 min
 Discarded = 0.25 cfs @ 13.17 hrs, Volume= 0.171 af
 Primary = 2.96 cfs @ 13.17 hrs, Volume= 1.218 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 996.16' @ 13.17 hrs Surf.Area= 8,210 sf Storage= 20,896 cf

Plug-Flow detention time= 67.6 min calculated for 1.389 af (100% of inflow)
 Center-of-Mass det. time= 67.3 min (931.6 - 864.3)

Volume	Invert	Avail.Storage	Storage Description			
#1	992.50'	28,244 cf	Custom Stage Data (Irregular) Listed below			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
992.50	0	0.0	0	0	0	
993.00	4,633	335.0	772	772	8,931	
994.00	5,673	358.0	5,144	5,916	10,246	
995.00	6,781	380.0	6,219	12,135	11,590	
996.00	7,949	399.0	7,357	19,492	12,830	
997.00	9,580	437.0	8,752	28,244	15,392	

Device	Routing	Invert	Outlet Devices
#1	Discarded	992.50'	1.296 in/hr Exfiltration over Surface area
#2	Primary	992.50'	8.0" x 35.0' long Culvert CPP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 992.32' S= 0.0051 '/' Cc= 0.900 n= 0.011
#3	Secondary	996.50'	20.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

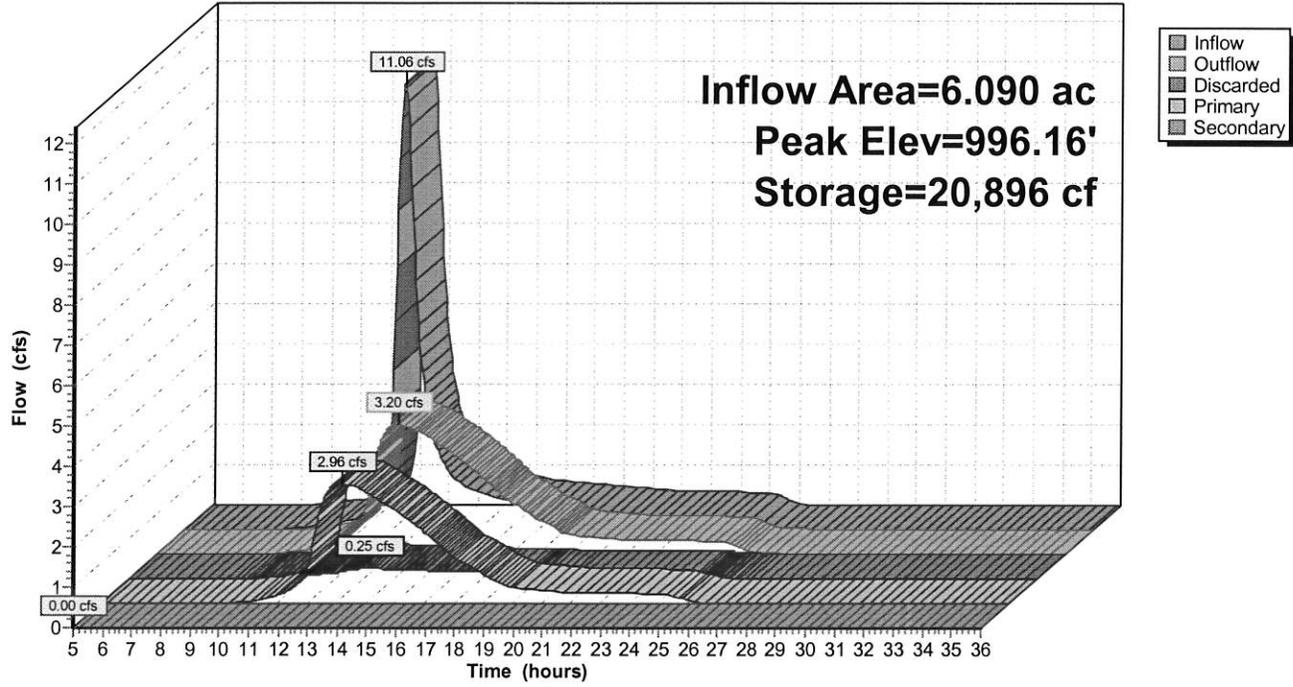
Discarded OutFlow Max=0.25 cfs @ 13.17 hrs HW=996.16' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.25 cfs)

Primary OutFlow Max=2.96 cfs @ 13.17 hrs HW=996.16' (Free Discharge)
 ↑2=Culvert (Barrel Controls 2.96 cfs @ 8.47 fps)

Secondary OutFlow Max=0.00 cfs @ 5.00 hrs HW=992.50' (Free Discharge)
 ↑3=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 1P: Pond 3 (dry)

Hydrograph



Summary for Pond 2P: Infiltration Basin

[81] Warning: Exceeded Pond P1 by 0.40' @ 35.95 hrs

Inflow Area = 23.960 ac, 61.06% Impervious, Inflow Depth > 4.05" for 100-yr event
 Inflow = 5.53 cfs @ 14.16 hrs, Volume= 8.091 af
 Outflow = 5.53 cfs @ 14.36 hrs, Volume= 7.719 af, Atten= 0%, Lag= 11.8 min
 Discarded = 0.84 cfs @ 14.36 hrs, Volume= 1.729 af
 Primary = 4.69 cfs @ 14.36 hrs, Volume= 5.990 af
 Secondary = 0.00 cfs @ 5.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 998.39' @ 14.36 hrs Surf.Area= 10,039 sf Storage= 19,157 cf

Plug-Flow detention time= 72.5 min calculated for 7.707 af (95% of inflow)
 Center-of-Mass det. time= 35.3 min (1,330.4 - 1,295.1)

Volume	Invert	Avail.Storage	Storage Description		
#1	996.00'	51,736 cf	Custom Stage Data (Irregular) Listed below (Recalc)		
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)
996.00	6,106	382.0	0	0	6,106
997.00	7,685	407.0	6,880	6,880	7,724
998.00	9,364	433.0	8,511	15,391	9,512
999.00	11,150	458.0	10,244	25,635	11,340
1,000.00	13,035	483.0	12,080	37,715	13,270
1,001.00	15,030	508.0	14,021	51,736	15,303

Device	Routing	Invert	Outlet Devices
#1	Primary	996.00'	15.0" x 94.0' long Culvert RCP, square edge headwall, Ke= 0.500 Outlet Invert= 995.51' S= 0.0052 '/' Cc= 0.900 n= 0.013 Concrete pipe, bends & connections
#2	Secondary	998.50'	25.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64
#3	Device 1	998.00'	6.0' long x 1.00' rise Sharp-Crested Rectangular Weir 2 End Contraction(s)
#4	Discarded	996.00'	3.600 in/hr Exfiltration over Surface area

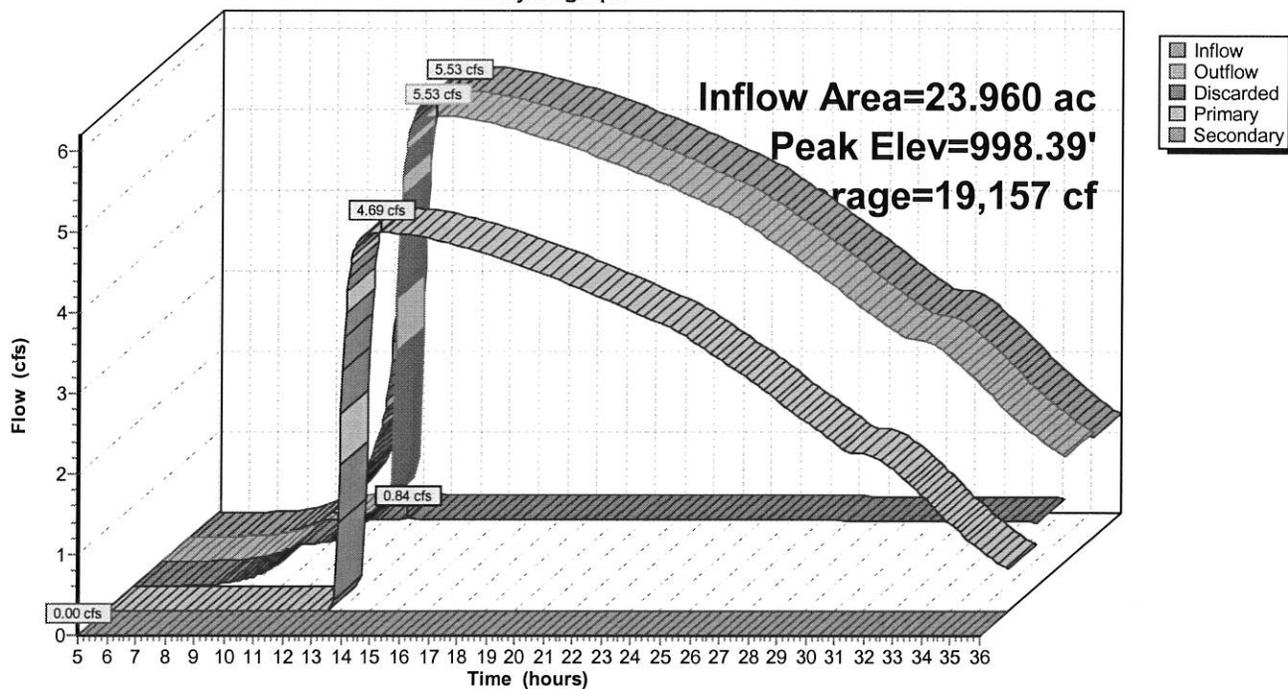
Discarded OutFlow Max=0.84 cfs @ 14.36 hrs HW=998.39' (Free Discharge)
 ↑4=Exfiltration (Exfiltration Controls 0.84 cfs)

Primary OutFlow Max=4.69 cfs @ 14.36 hrs HW=998.39' (Free Discharge)
 ↑1=Culvert (Passes 4.69 cfs of 6.54 cfs potential flow)
 ↑3=Sharp-Crested Rectangular Weir (Weir Controls 4.69 cfs @ 2.04 fps)

Secondary OutFlow Max=0.00 cfs @ 5.00 hrs HW=996.00' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 2P: Infiltration Basin

Hydrograph



04C1648 - Proposed (06-19-08)

Type II 24-hr 100-yr Rainfall=5.88"

Prepared by Jenkins Survey and Design

Printed 7/29/2008

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Summary for Pond P1: Pond 1

[82] Warning: Early inflow requires earlier time span

Inflow Area = 23.960 ac, 61.06% Impervious, Inflow Depth > 4.51" for 100-yr event
 Inflow = 105.97 cfs @ 12.16 hrs, Volume= 9.000 af
 Outflow = 5.53 cfs @ 14.16 hrs, Volume= 8.091 af, Atten= 95%, Lag= 120.2 min
 Primary = 5.53 cfs @ 14.16 hrs, Volume= 8.091 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,000.69' @ 14.16 hrs Surf.Area= 80,731 sf Storage= 251,382 cf

Plug-Flow detention time= 541.1 min calculated for 8.091 af (90% of inflow)
 Center-of-Mass det. time= 489.5 min (1,295.1 - 805.6)

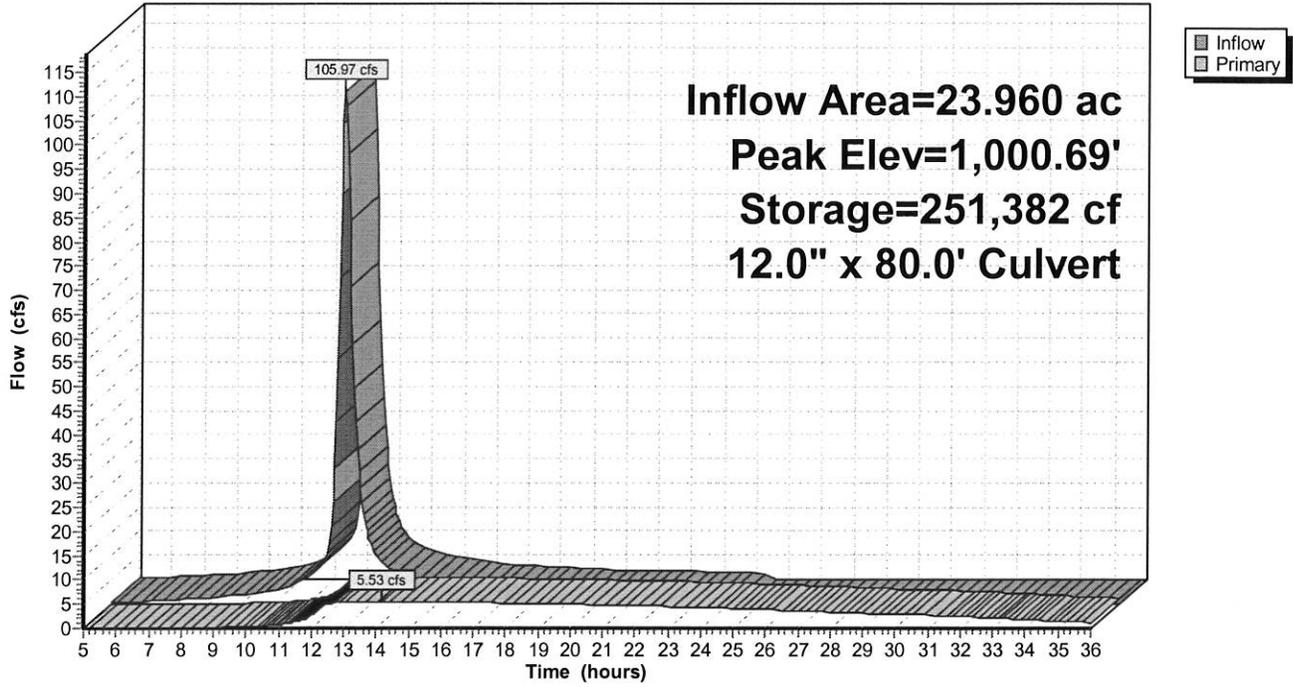
Volume	Invert	Avail.Storage	Storage Description			
#1	997.00'	671,679 cf	Custom Stage Data (Irregular) Listed below			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
997.00	54,341	1,290.9	0	0	54,341	
998.00	62,100	1,365.2	58,177	58,177	70,102	
999.00	69,541	1,434.3	65,785	123,963	85,559	
1,000.00	76,123	1,481.8	72,807	196,770	96,678	
1,001.00	82,827	1,527.5	79,451	276,221	107,724	
1,002.00	89,703	1,570.1	86,242	362,464	118,339	
1,003.00	96,677	1,614.3	93,168	455,632	129,652	
1,004.00	105,446	1,687.5	101,030	556,662	148,956	
1,005.00	124,863	1,808.9	115,018	671,679	182,779	

Device	Routing	Invert	Outlet Devices
#1	Primary	997.00'	12.0" x 80.0' long Culvert RCP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 996.60' S= 0.0050 '/' Cc= 0.900 n= 0.013

Primary OutFlow Max=5.53 cfs @ 14.16 hrs HW=1,000.69' (Free Discharge)↑**1=Culvert** (Barrel Controls 5.53 cfs @ 7.04 fps)

Pond P1: Pond 1

Hydrograph



Summary for Pond P2: Pond 2 (Dry)

Inflow Area = 16.220 ac, 6.17% Impervious, Inflow Depth = 2.44" for 100-yr event
 Inflow = 23.82 cfs @ 12.49 hrs, Volume= 3.298 af
 Outflow = 11.10 cfs @ 13.06 hrs, Volume= 3.298 af, Atten= 53%, Lag= 33.7 min
 Primary = 11.10 cfs @ 13.06 hrs, Volume= 3.298 af

Routing by Stor-Ind method, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs
 Peak Elev= 1,004.66' @ 13.06 hrs Surf.Area= 26,378 sf Storage= 30,570 cf

Plug-Flow detention time= 22.3 min calculated for 3.293 af (100% of inflow)
 Center-of-Mass det. time= 22.3 min (904.9 - 882.6)

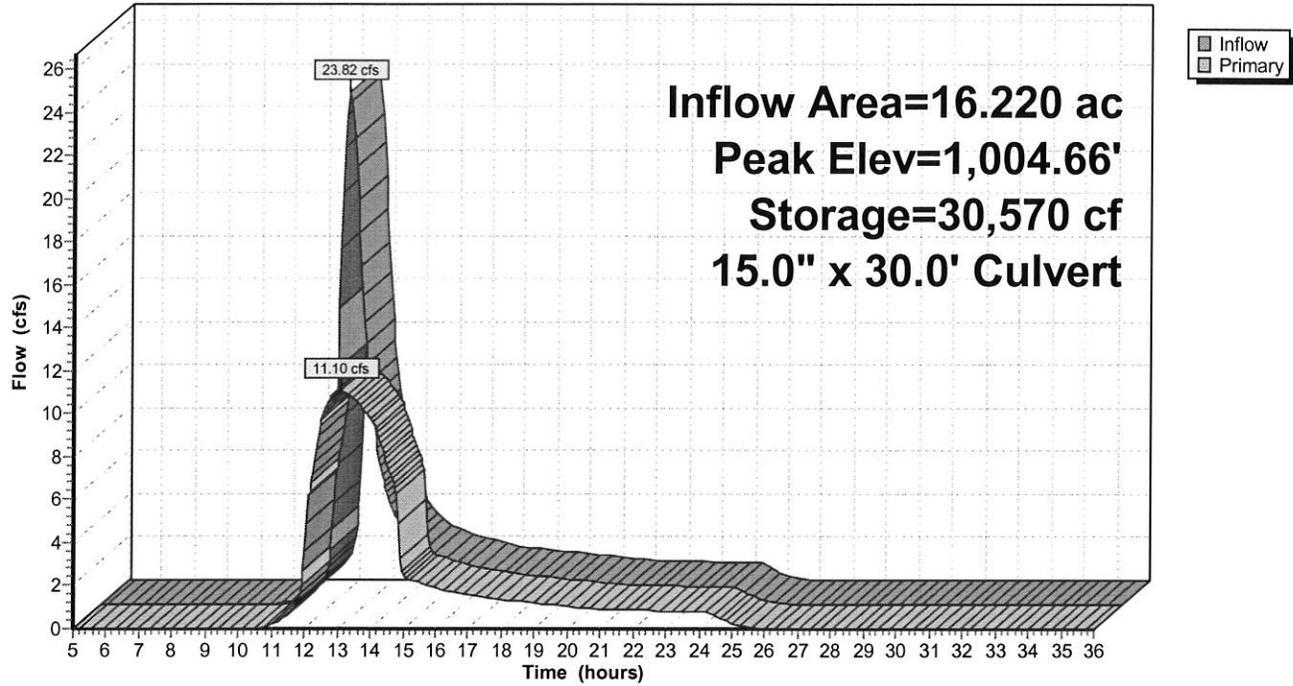
Volume	Invert	Avail.Storage	Storage Description			
#1	1,001.16'	39,351 cf	Custom Stage Data (Irregular) Listed below			
Elevation (feet)	Surf.Area (sq-ft)	Perim. (feet)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	Wet.Area (sq-ft)	
1,001.16	0	0.0	0	0	0	
1,003.00	2,423	227.0	1,486	1,486	4,106	
1,004.00	25,153	979.0	11,794	13,280	76,278	
1,005.00	27,000	1,000.0	26,071	39,351	79,730	

Device	Routing	Invert	Outlet Devices	
#1	Primary	1,001.16'	15.0" x 30.0' long Culvert RCP, groove end projecting, Ke= 0.200 Outlet Invert= 1,001.00' S= 0.0053 '/' Cc= 0.900 n= 0.013	

Primary OutFlow Max=11.10 cfs @ 13.06 hrs HW=1,004.66' (Free Discharge)
 ↑**1=Culvert** (Barrel Controls 11.10 cfs @ 9.04 fps)

Pond P2: Pond 2 (Dry)

Hydrograph



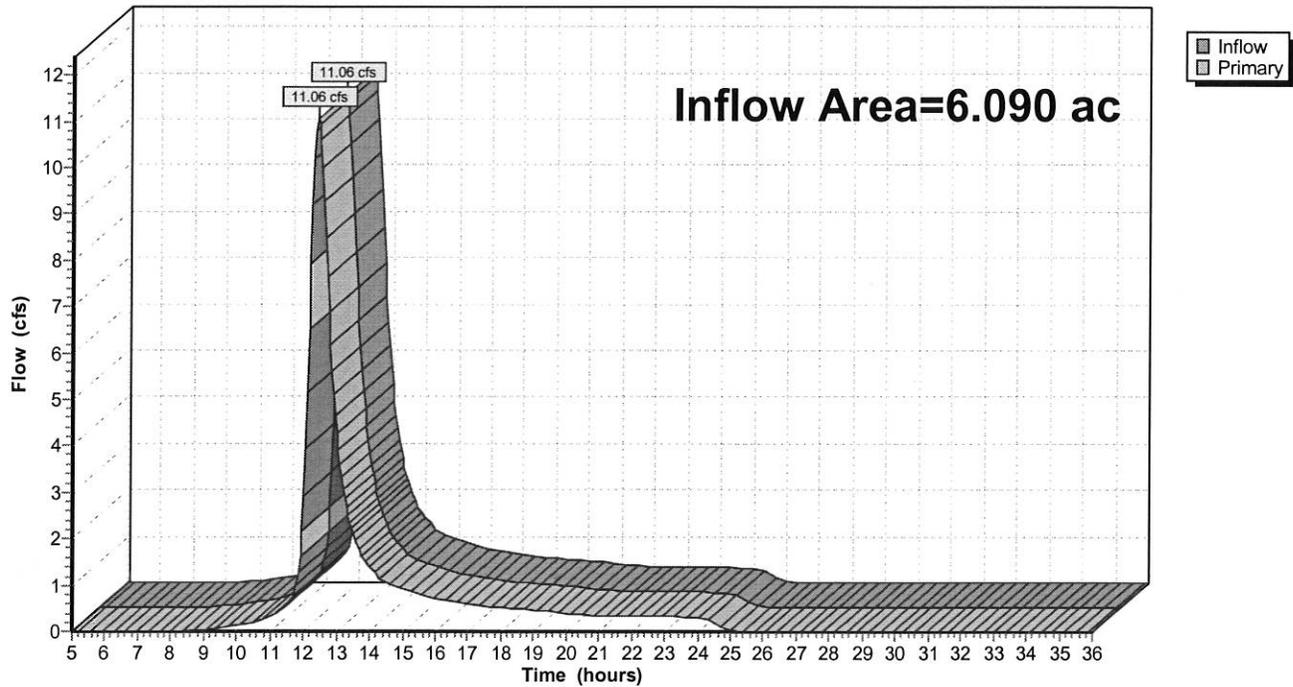
Summary for Link P-1L: North Discharge

Inflow Area = 6.090 ac, 27.91% Impervious, Inflow Depth = 2.74" for 100-yr event
Inflow = 11.06 cfs @ 12.41 hrs, Volume= 1.389 af
Primary = 11.06 cfs @ 12.41 hrs, Volume= 1.389 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-1L: North Discharge

Hydrograph

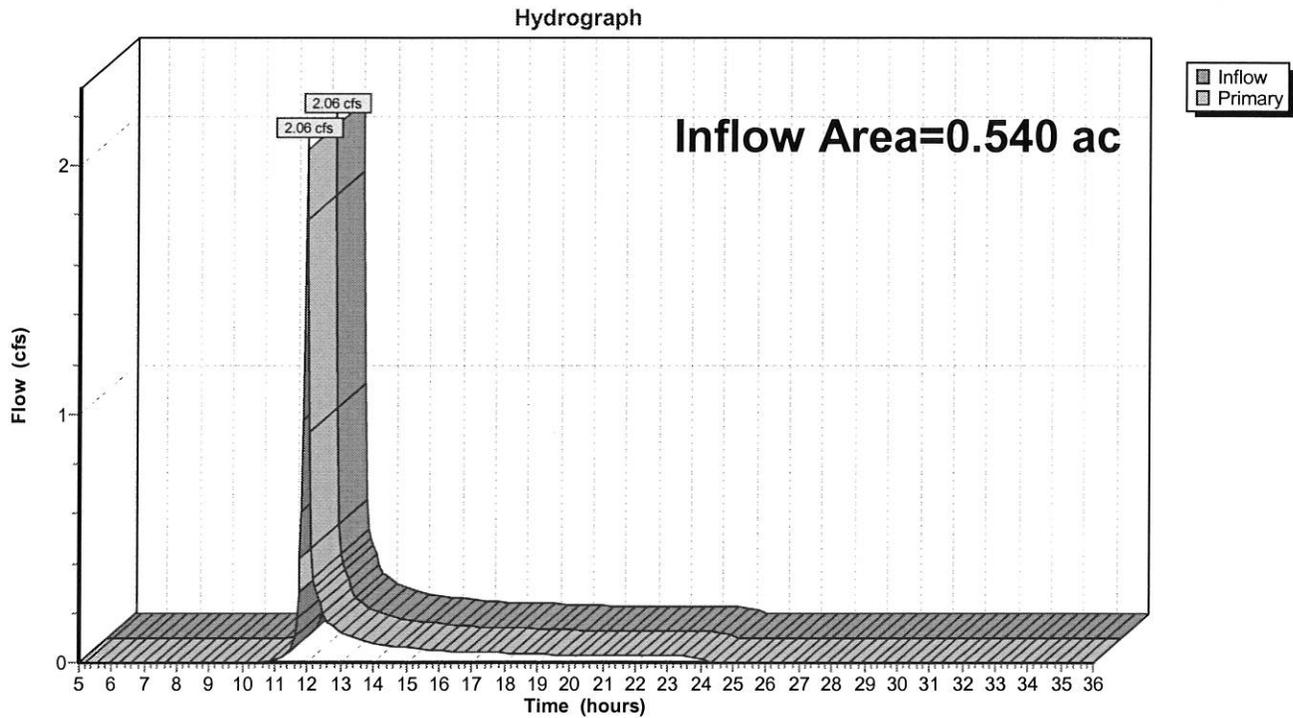


Summary for Link P-3L: East Discharge

Inflow Area = 0.540 ac, 0.00% Impervious, Inflow Depth = 2.09" for 100-yr event
Inflow = 2.06 cfs @ 11.96 hrs, Volume= 0.094 af
Primary = 2.06 cfs @ 11.96 hrs, Volume= 0.094 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-3L: East Discharge



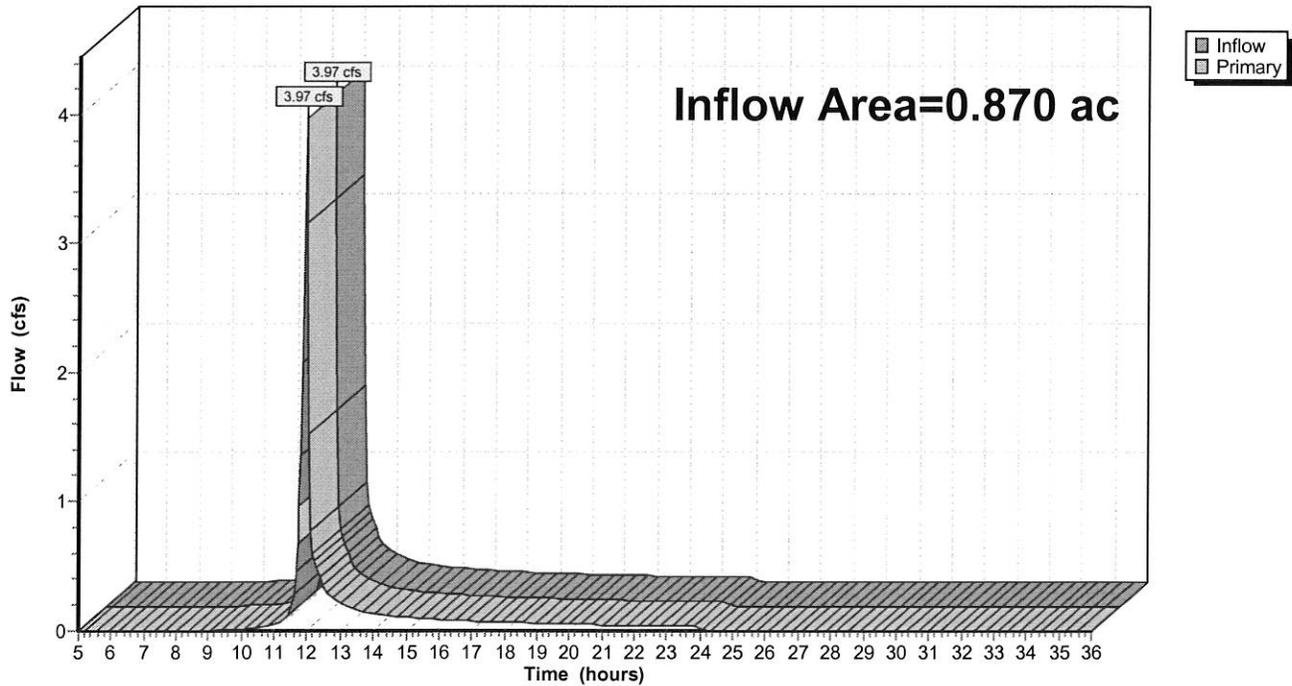
Summary for Link P-4L: South & East Discharge

Inflow Area = 0.870 ac, 0.00% Impervious, Inflow Depth = 2.47" for 100-yr event
Inflow = 3.97 cfs @ 11.95 hrs, Volume= 0.179 af
Primary = 3.97 cfs @ 11.95 hrs, Volume= 0.179 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-4L: South & East Discharge

Hydrograph



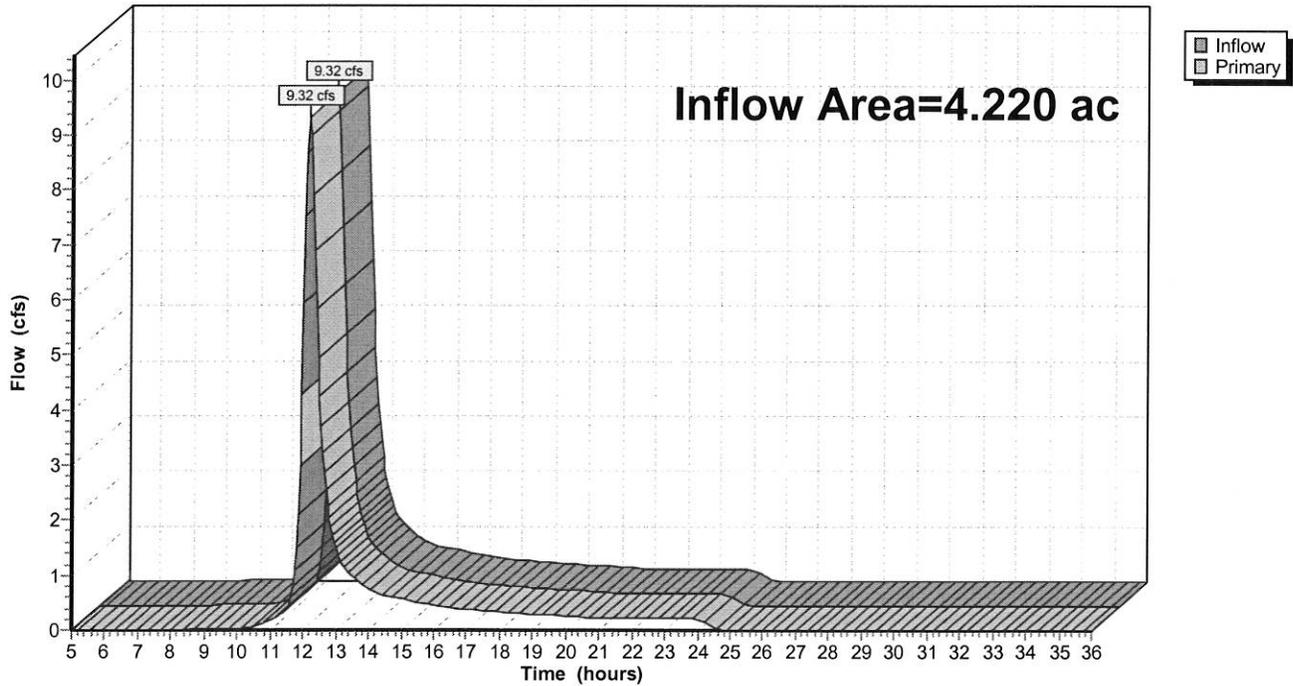
Summary for Link P-5L: West Discharge

Inflow Area = 4.220 ac, 3.55% Impervious, Inflow Depth = 2.50" for 100-yr event
Inflow = 9.32 cfs @ 12.18 hrs, Volume= 0.880 af
Primary = 9.32 cfs @ 12.18 hrs, Volume= 0.880 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-5L: West Discharge

Hydrograph



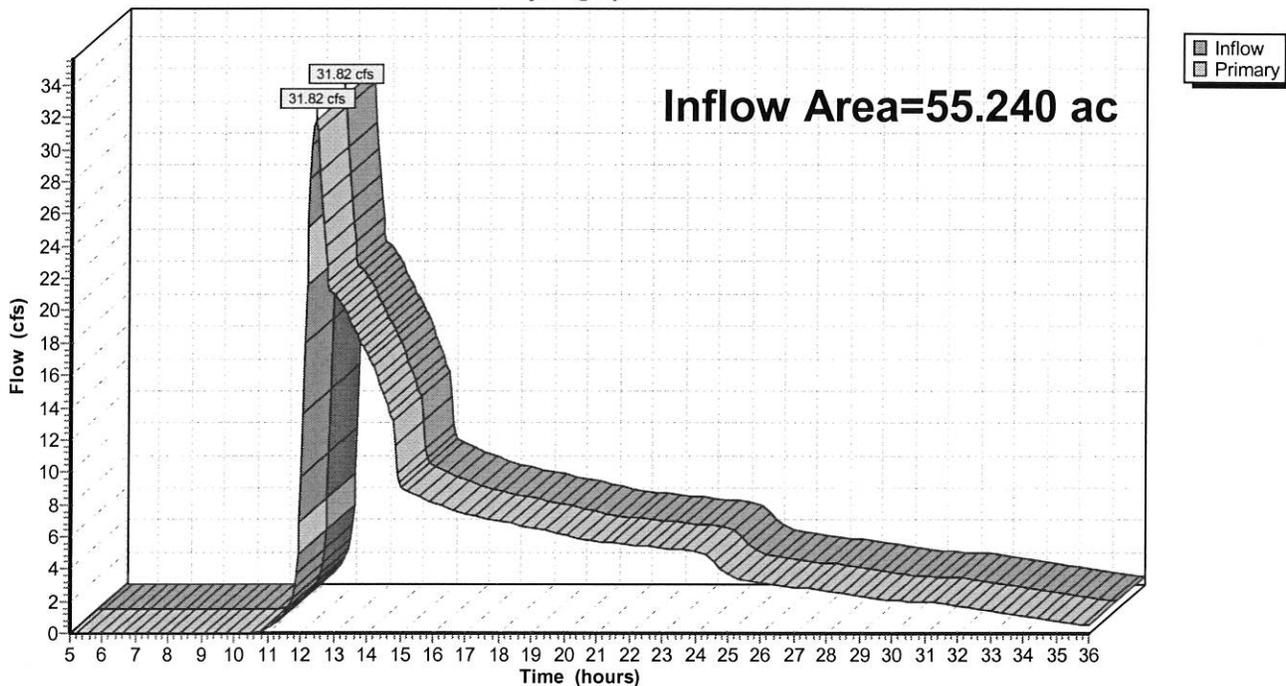
Summary for Link P-6L: Mid Site Discharge

Inflow Area = 55.240 ac, 29.20% Impervious, Inflow Depth > 2.61" for 100-yr event
Inflow = 31.82 cfs @ 12.40 hrs, Volume= 12.022 af
Primary = 31.82 cfs @ 12.40 hrs, Volume= 12.022 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-6L: Mid Site Discharge

Hydrograph



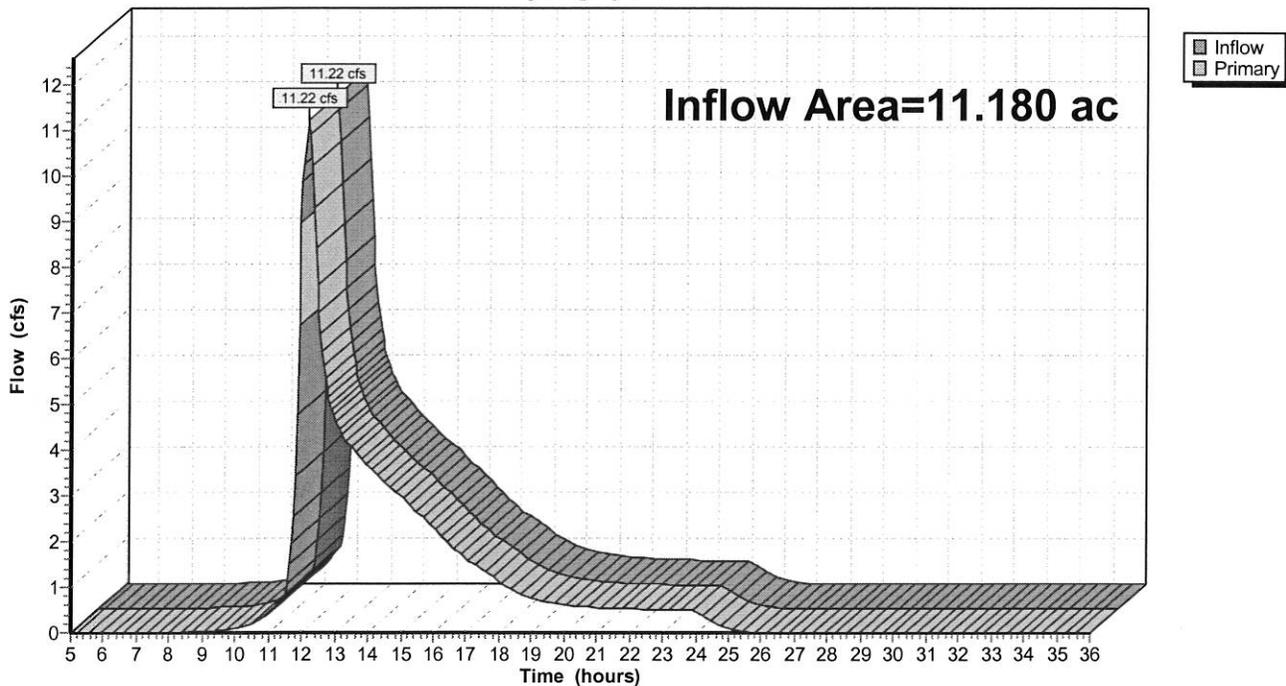
Summary for Link P-7L: Proposed Discharge (Site)

Inflow Area = 11.180 ac, 16.55% Impervious, Inflow Depth = 2.44" for 100-yr event
Inflow = 11.22 cfs @ 12.19 hrs, Volume= 2.278 af
Primary = 11.22 cfs @ 12.19 hrs, Volume= 2.278 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

Link P-7L: Proposed Discharge (Site)

Hydrograph

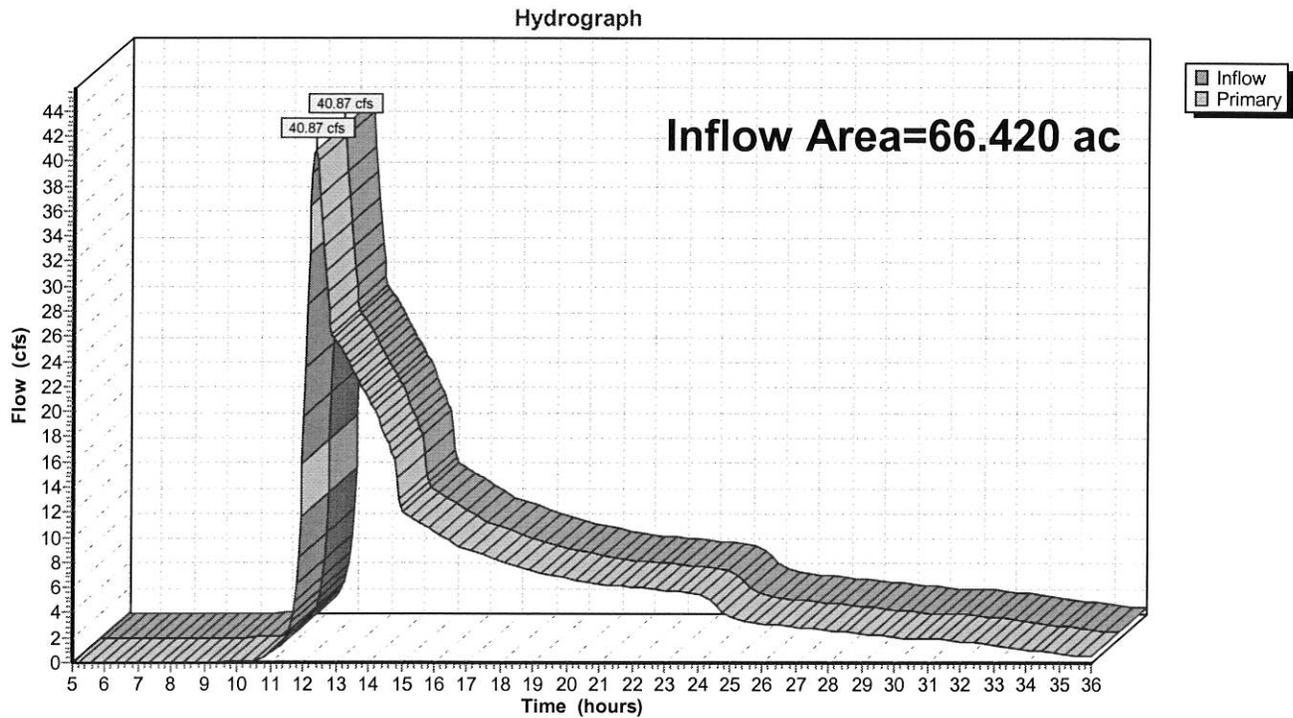


Summary for Link P-8L: Proposed Discharge Total

Inflow Area = 66.420 ac, 27.07% Impervious, Inflow Depth > 2.58" for 100-yr event
Inflow = 40.87 cfs @ 12.34 hrs, Volume= 14.299 af
Primary = 40.87 cfs @ 12.34 hrs, Volume= 14.299 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-36.00 hrs, dt= 0.05 hrs

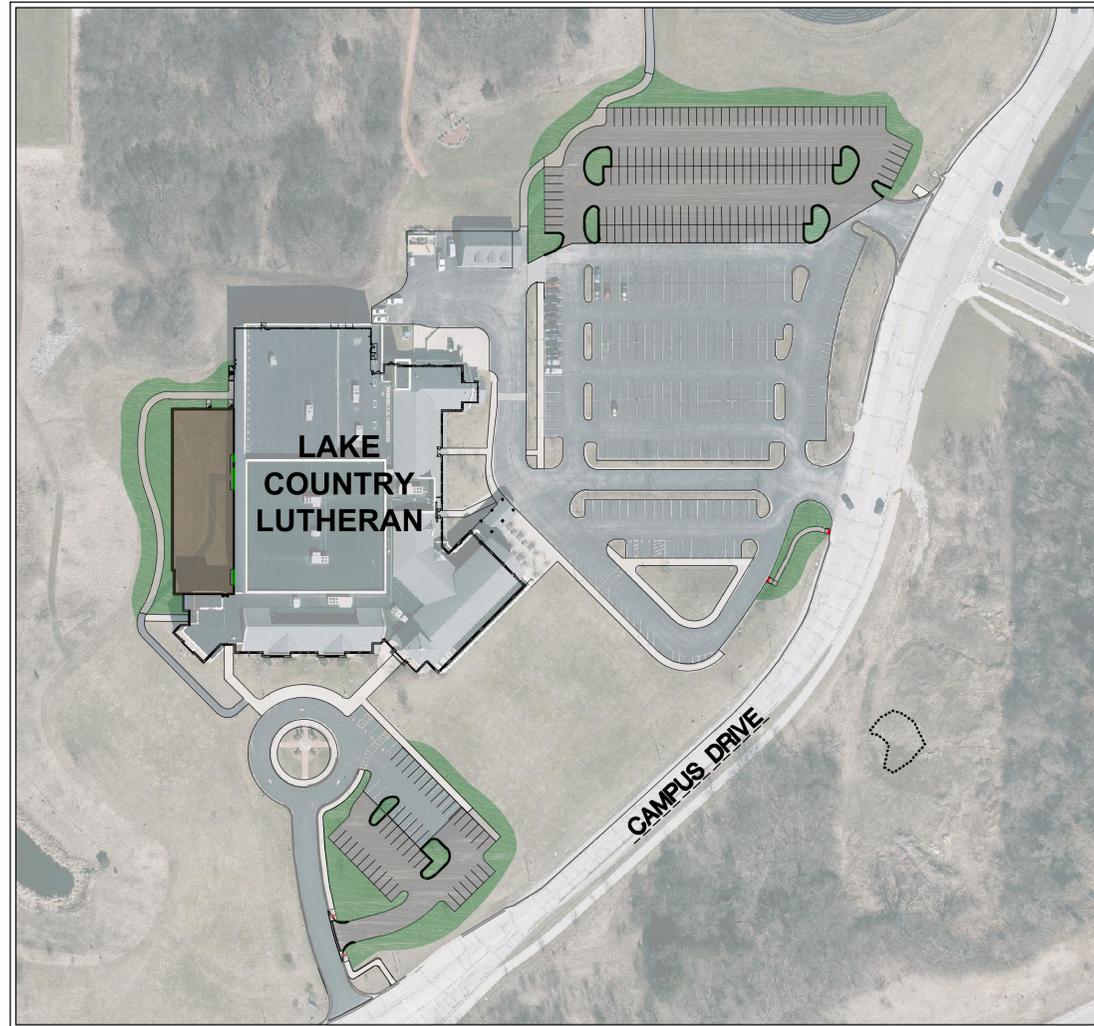
Link P-8L: Proposed Discharge Total



LAKE COUNTRY LUTHERAN ADDITION SITE DEVELOPMENT PLANS VILLAGE OF HARTLAND, WISCONSIN

GENERAL NOTES

- THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.
 - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSWCW)
 - THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
 - WDNR STORMWATER RUNOFF TECHNICAL STANDARDS.
 - WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
 - VILLAGE OF HARTLAND TECHNICAL STANDARDS.
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
- EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, AN APPROVED EROSION CONTROL PLAN WILL BE PROVIDED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY IMPLEMENTING THE APPROVED PLAN.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY FLOOR, CURB OR PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (CALL DIGGERS HOTLINE AT 800-242-8511). COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- EXISTING UTILITY INFORMATION IS SHOWN FROM SURVEY WORK, FIELD OBSERVATIONS, AVAILABLE PUBLIC RECORDS, AND AS-BUILT DRAWINGS. EXACT LOCATIONS AND ELEVATIONS OF UTILITIES SHALL BE DETERMINED PRIOR TO INSTALLING NEW WORK. EXCAVATE TEST PITS AS REQUIRED.
- PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION.
- ALL TRENCHING SHALL BE PERFORMED ACCORDING TO OSHA STANDARDS.
- ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
- THE CONTRACTOR SHALL CLEAN ALL ADJACENT STREETS OF ANY SEDIMENT OR DEBRIS BY SWEEPING BEFORE THE END OF THE WORKING DAY OR AS REQUIRED BY THE CITY OF PEWAUKEE.
- THE CONTRACTOR MUST AND IS REQUIRED TO NOTIFY THE VILLAGE OF HARTLAND SEWER AND WATER UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF WATER MAIN FILLING, WATER MAIN FLUSHING, WATER MAIN TESTING AND WATER MAIN CONNECTIONS. NO CONNECTION SHALL BE MADE TO THE EXISTING WATER SYSTEM UNTIL SAFE SAMPLES FROM THE NEW MAIN HAVE BEEN OBTAINED.



SITE PLAN

SCALE: 1" = 100'



LOCATION MAP

NOT TO SCALE

ENGINEER:

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PHONE: 262-790-1480
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PROJECT:
LAKE COUNTRY LUTHERAN ADDITION
VILLAGE OF HARTLAND, WISCONSIN
BY: GROTH DESIGN GROUP
N58W6161 COLUMBIA RD.
CEDARBURG, WI 53012

REVISION HISTORY

DATE	DESCRIPTION
3/21/2025	PRELIMINARY SUBMITTAL

DATE:

MARCH 21, 2025

JOB NUMBER:

25-10-1092

DESCRIPTION:

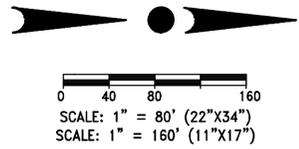
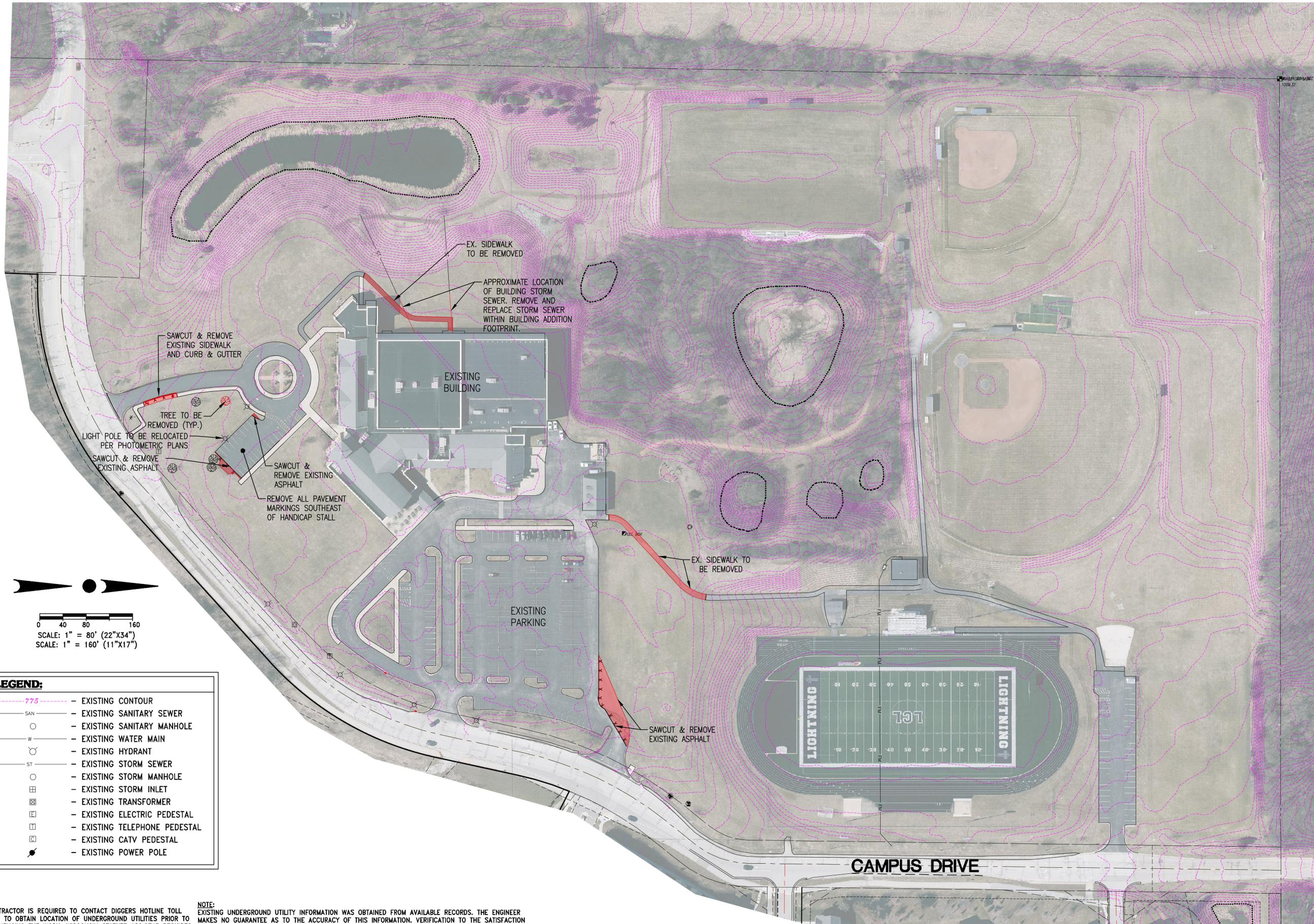
COVER SHEET

SHEET

T1

SHEET INDEX

CIVIL	
T1	- COVER SHEET
C0.1	- EXISTING SITE PLAN
C1.0	- PROPOSED SITE PLAN
C1.1	- DETAILED SITE PLAN - SOUTH PARKING
C1.2	- DETAILED SITE PLAN - BUILDING ADDITION
C1.3	- DETAILED SITE PLAN - NORTH PARKING
C2.0	- GRADING PLAN - SOUTH PARKING
C2.1	- GRADING PLAN - BUILDING ADDITION
C2.2	- GRADING PLAN - NORTH PARKING
C3.0	- EROSION CONTROL PLAN
C4.0	- CONSTRUCTION DETAILS



LEGEND:

--- 775 ---	- EXISTING CONTOUR
— SAN —	- EXISTING SANITARY SEWER
○	- EXISTING SANITARY MANHOLE
— W —	- EXISTING WATER MAIN
⊗	- EXISTING HYDRANT
— ST —	- EXISTING STORM SEWER
○	- EXISTING STORM MANHOLE
⊕	- EXISTING STORM INLET
⊞	- EXISTING TRANSFORMER
⊞	- EXISTING ELECTRIC PEDESTAL
⊞	- EXISTING TELEPHONE PEDESTAL
⊞	- EXISTING CATV PEDESTAL
⊞	- EXISTING POWER POLE

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CALL DIGGERS HOTLINE 1-800-242-8511



4100 N. CALHOUN RD., SUITE 300
BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: jurek@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERAN ADDITION
VILLAGE OF HARTLAND, WISCONSIN
BY: GROTH DESIGN GROUP
N58W6161 COLUMBIA RD.
CEDARBURG, WI 53021

REVISION HISTORY

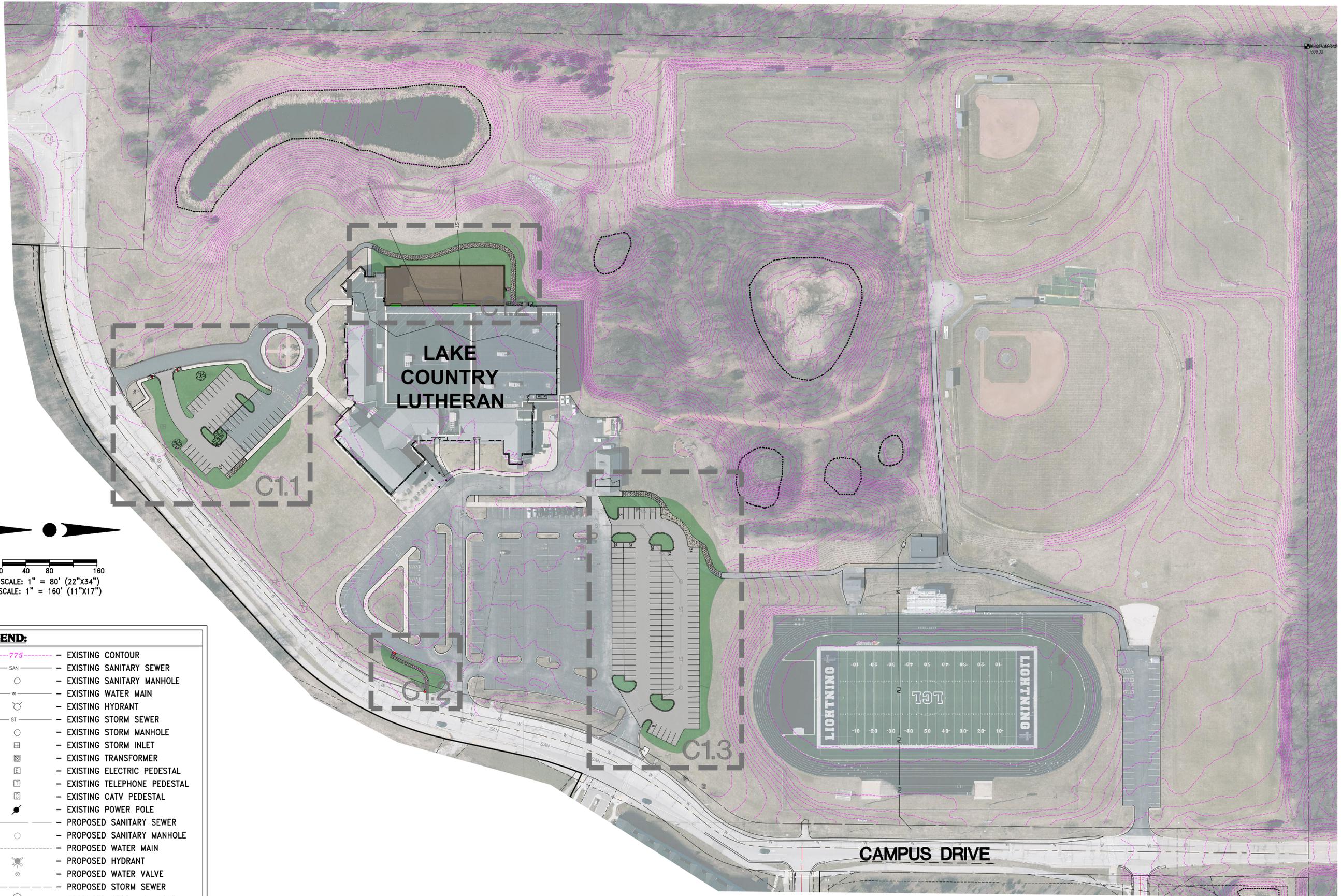
DATE	DESCRIPTION
3/21/2025	PRELIMINARY SUBMITTAL

DATE:
MARCH 21, 2025

JOB NUMBER:
25-10-1092

DESCRIPTION:
EXISTING SITE PLAN

SHEET
C0.1



LEGEND:

	775 - EXISTING CONTOUR
	SAN - EXISTING SANITARY SEWER
	○ - EXISTING SANITARY MANHOLE
	W - EXISTING WATER MAIN
	○ - EXISTING HYDRANT
	ST - EXISTING STORM SEWER
	○ - EXISTING STORM MANHOLE
	■ - EXISTING STORM INLET
	■ - EXISTING TRANSFORMER
	■ - EXISTING ELECTRIC PEDESTAL
	■ - EXISTING TELEPHONE PEDESTAL
	■ - EXISTING CATV PEDESTAL
	● - EXISTING POWER POLE
	○ - PROPOSED SANITARY SEWER
	○ - PROPOSED SANITARY MANHOLE
	○ - PROPOSED WATER MAIN
	○ - PROPOSED HYDRANT
	○ - PROPOSED WATER VALVE
	○ - PROPOSED STORM SEWER
	○ - PROPOSED STORM MANHOLE
	○ - PROPOSED STORM INLET
	○ - PROPOSED STORM END SECTION

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PROJECT:
LAKE COUNTRY LUTHERAN ADDITION
VILLAGE OF HARTLAND, WISCONSIN
BY: GROTH DESIGN GROUP
N58W6161 COLUMBIA RD.
CEDARBURG, WI 53012

REVISION HISTORY

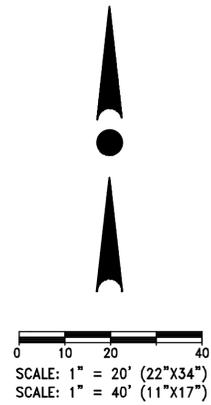
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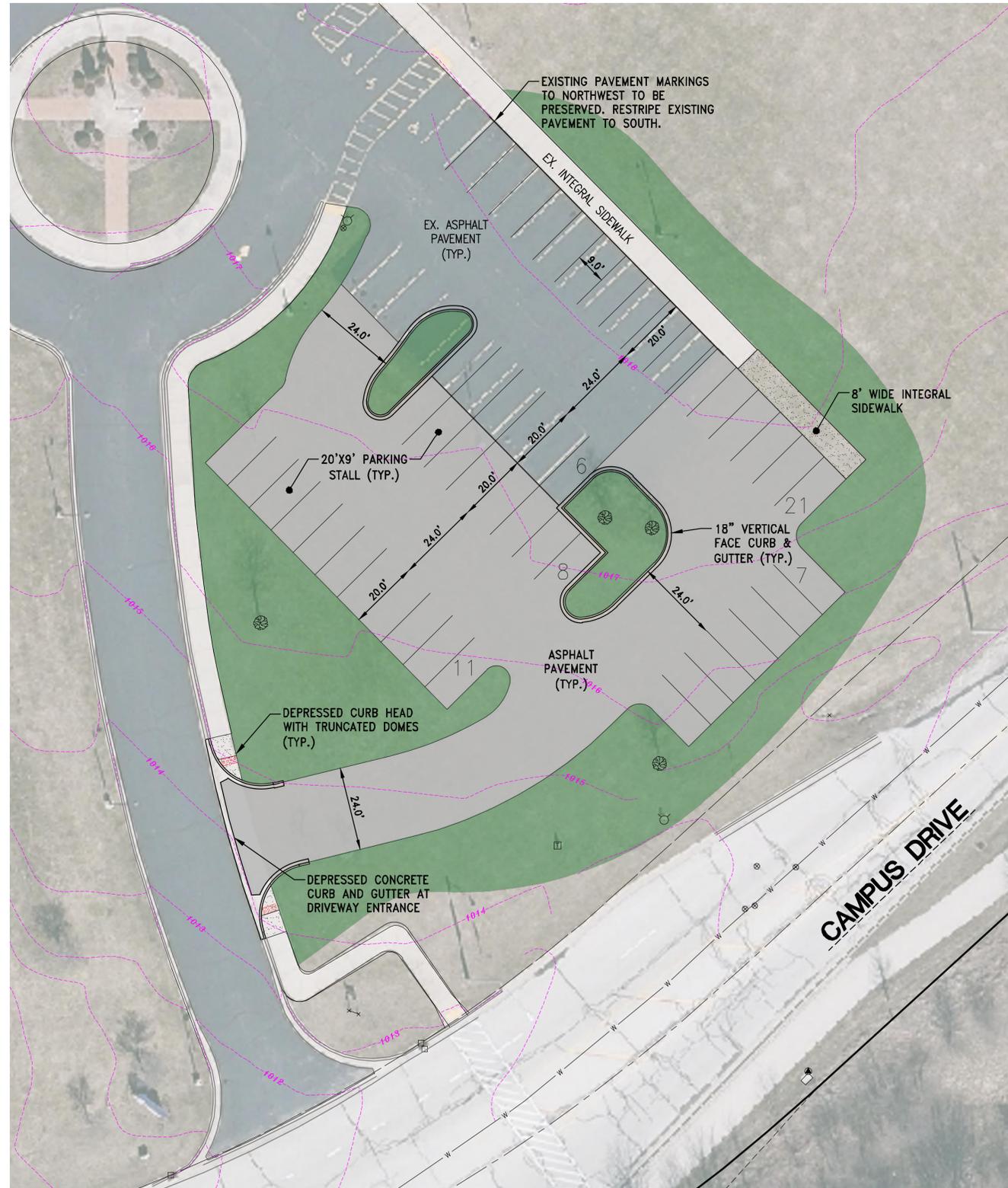
DESCRIPTION:
PROPOSED SITE PLAN

SHEET
C1.0



LEGEND:

	775	- EXISTING CONTOUR
	SAN	- EXISTING SANITARY SEWER
		- EXISTING SANITARY MANHOLE
	W	- EXISTING WATER MAIN
		- EXISTING HYDRANT
	ST	- EXISTING STORM SEWER
		- EXISTING STORM MANHOLE
		- EXISTING STORM INLET
		- EXISTING TRANSFORMER
		- EXISTING ELECTRIC PEDESTAL
		- EXISTING TELEPHONE PEDESTAL
		- EXISTING CATV PEDESTAL
		- EXISTING POWER POLE
		- PROPOSED SANITARY SEWER
		- PROPOSED SANITARY MANHOLE
		- PROPOSED WATER MAIN
		- PROPOSED HYDRANT
		- PROPOSED WATER VALVE
		- PROPOSED STORM SEWER
		- PROPOSED STORM MANHOLE
		- PROPOSED STORM INLET
		- PROPOSED STORM END SECTION



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PROJECT:
LAKE COUNTRY LUTHERAN ADDITION
VILLAGE OF HARTLAND, WISCONSIN
BY: GROTH DESIGN GROUP
N58W6161 COLUMBIA RD.
CEDARBURG, WI 53012

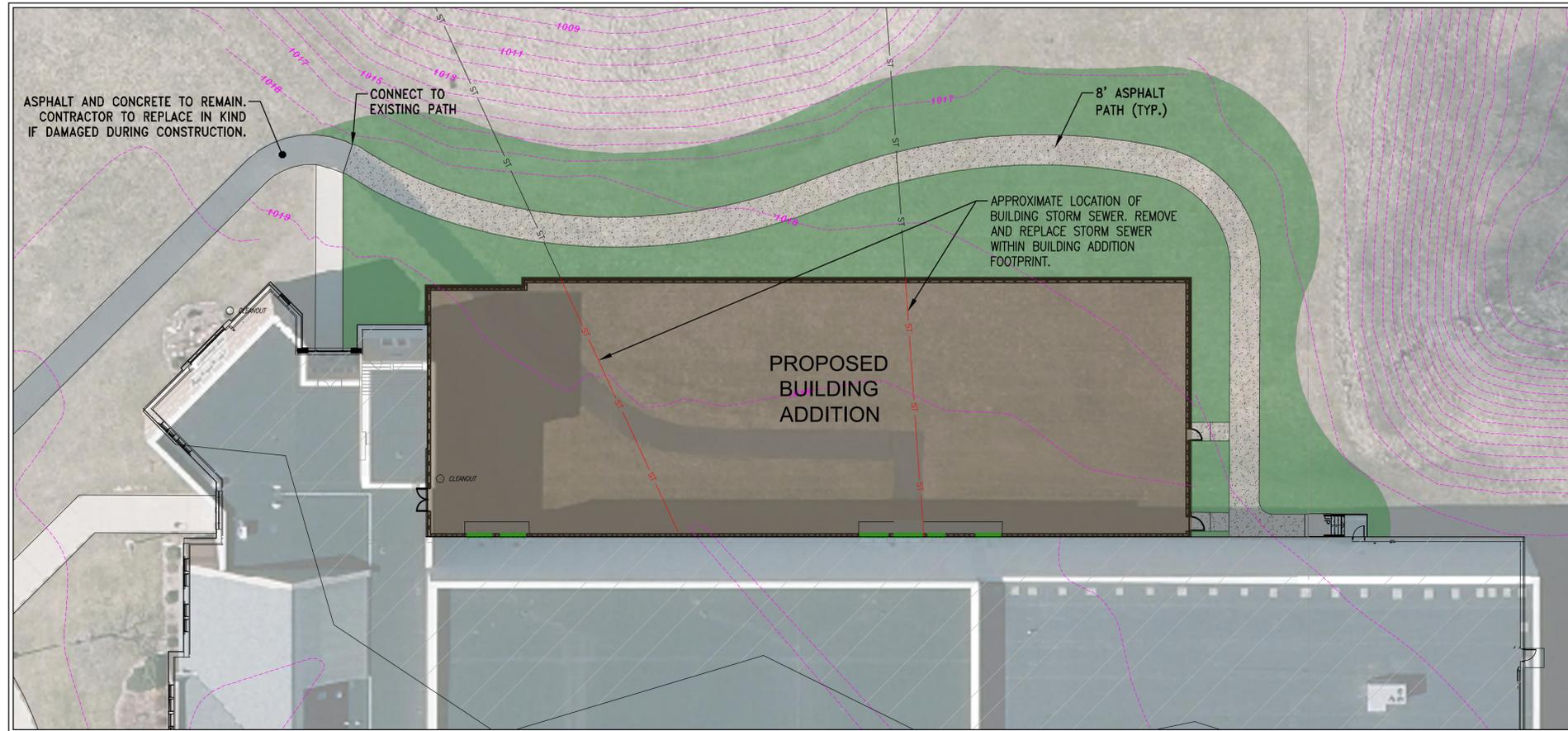
REVISION HISTORY	
DATE	DESCRIPTION
3/21/2025	PRELIMINARY SUBMITTAL

DATE:
MARCH 21, 2025

JOB NUMBER:
25-10-1092

DESCRIPTION:
DETAILED SITE PLAN - SOUTH PARKING

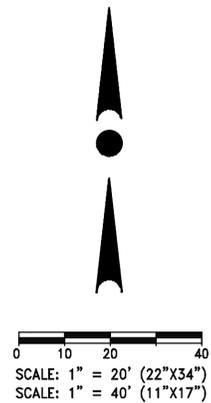
SHEET
C1.1



BUILDING ADDITION

LEGEND:

---775---	EXISTING CONTOUR
SAN	EXISTING SANITARY SEWER
○	EXISTING SANITARY MANHOLE
W	EXISTING WATER MAIN
⊗	EXISTING HYDRANT
ST	EXISTING STORM SEWER
○	EXISTING STORM MANHOLE
⊞	EXISTING STORM INLET
⊞	EXISTING TRANSFORMER
⊞	EXISTING ELECTRIC PEDESTAL
⊞	EXISTING TELEPHONE PEDESTAL
⊞	EXISTING CATV PEDESTAL
⊞	EXISTING POWER POLE
○	PROPOSED SANITARY SEWER
○	PROPOSED SANITARY MANHOLE
---	PROPOSED WATER MAIN
⊗	PROPOSED HYDRANT
⊞	PROPOSED WATER VALVE
---	PROPOSED STORM SEWER
○	PROPOSED STORM MANHOLE
⊞	PROPOSED STORM INLET
---	PROPOSED STORM END SECTION



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SIDEWALK CONNECTION AT CAMPUS DRIVE



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 EMAIL: j.pudelo@trioeng.com

PROJECT:
LAKE COUNTRY LUTHERAN ADDITION
 VILLAGE OF HARTLAND, WISCONSIN
 BY: GROTH DESIGN GROUP
 N58W6161 COLUMBIA RD.
 CEDARBURG, WI 53012

REVISION HISTORY

DATE	DESCRIPTION
3/21/2025	PRELIMINARY SUBMITTAL

DATE:
 MARCH 21, 2025

JOB NUMBER:
 25-10-1092

DESCRIPTION:
 DETAILED SITE PLAN - BUILDING ADDITION

SHEET

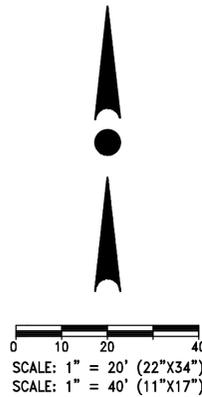
C1.2

X:\2025\25-10-1092 - LAKE COUNTRY LUTHERAN ADDITION - HARTLAND\DRAWINGS\PRELIMINARY\LAKE COUNTRY LUTHERAN ADDITION_EXIST AND PROPOSED SITE PLAN_22X34.DWG



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LEGEND:

- 775 - EXISTING CONTOUR
- SAN - EXISTING SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXISTING WATER MAIN
- EXISTING HYDRANT
- EXISTING STORM SEWER
- EXISTING STORM MANHOLE
- EXISTING STORM INLET
- EXISTING TRANSFORMER
- EXISTING ELECTRIC PEDESTAL
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- EXISTING CATV PEDESTAL
- EXISTING POWER POLE
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PROJECT:
LAKE COUNTRY LUTHERAN ADDITION
VILLAGE OF HARTLAND, WISCONSIN
BY: GROTH DESIGN GROUP
N58W6161 COLUMBIA RD.
CEDARBURG, WI 53012

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3/21/2025	PRELIMINARY SUBMITTAL

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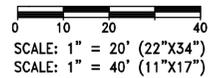
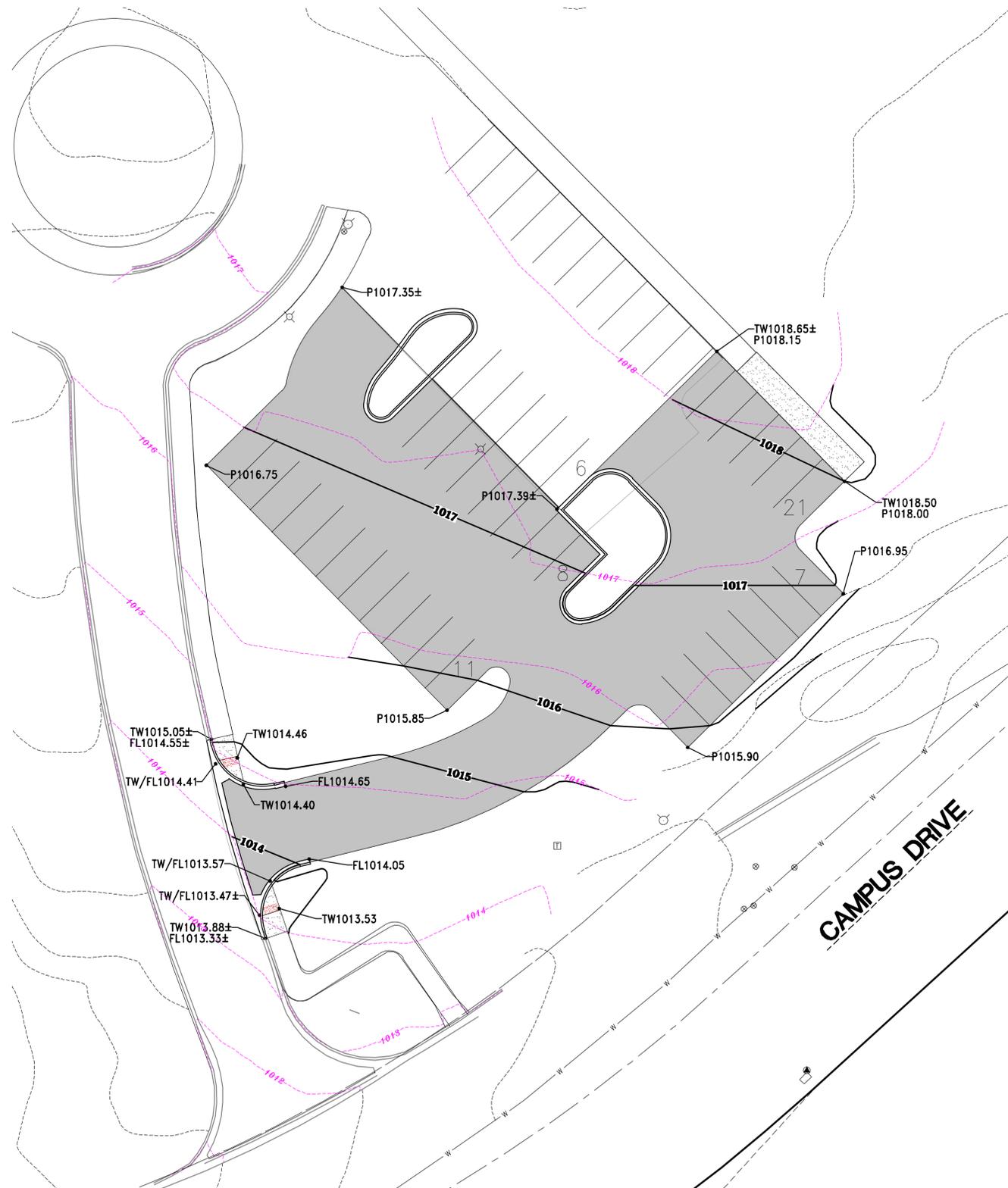
JOB NUMBER:
25-10-1092

DESCRIPTION:
DETAILED SITE PLAN - NORTH PARKING

SHEET

C1.3

X:\2025\25-10-1092 LAKE COUNTRY LUTHERAN ADDITION - HARTLAND\DRAWINGS\PRELIMINARY\LAKE COUNTRY LUTHERAN ADDITION_GRADING AND EC_22X34.DWG



GRADE SPOT SHOT NOTE:
 1. SPOT GRADE PREFIX REPRESENT THE SURFACE ELEVATION AT EACH SPECIFIC POINT. EACH ARE DEFINED AS FOLLOW: TOP OF SIDEWALK (TW), PAVEMENT (P), AND CURB & GUTTER FLANGE GRADE (FL) INDICATES AREAS WHERE SIDEWALK GRADE & PAVEMENT/FLANGE GRADES MATCH, AND WHERE CURB EXISTS, TOP OF CURB HEAD IS DEPRESSED AND MATCHES GRADE INDICATED.

LEGEND:
 - - - - - 795 - - - - - EXISTING CONTOUR
 ——— 795 ——— PROPOSED CONTOUR
 ← PROPOSED FLOW ARROW
 P150.00 PROPOSED SPOT ELEVATION
FFE XXX.X - PROPOSED FIRST FLOOR ELEVATION

NOTE:
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 EMAIL: jpauleko@tribeng.com

PROJECT:
LAKE COUNTRY LUTHERAN ADDITION
 VILLAGE OF HARTLAND, WISCONSIN
 BY: GROTH DESIGN GROUP
 N58W6161 COLUMBIA RD.
 CEDARBURG, WI 53012

REVISION HISTORY	
DATE	DESCRIPTION
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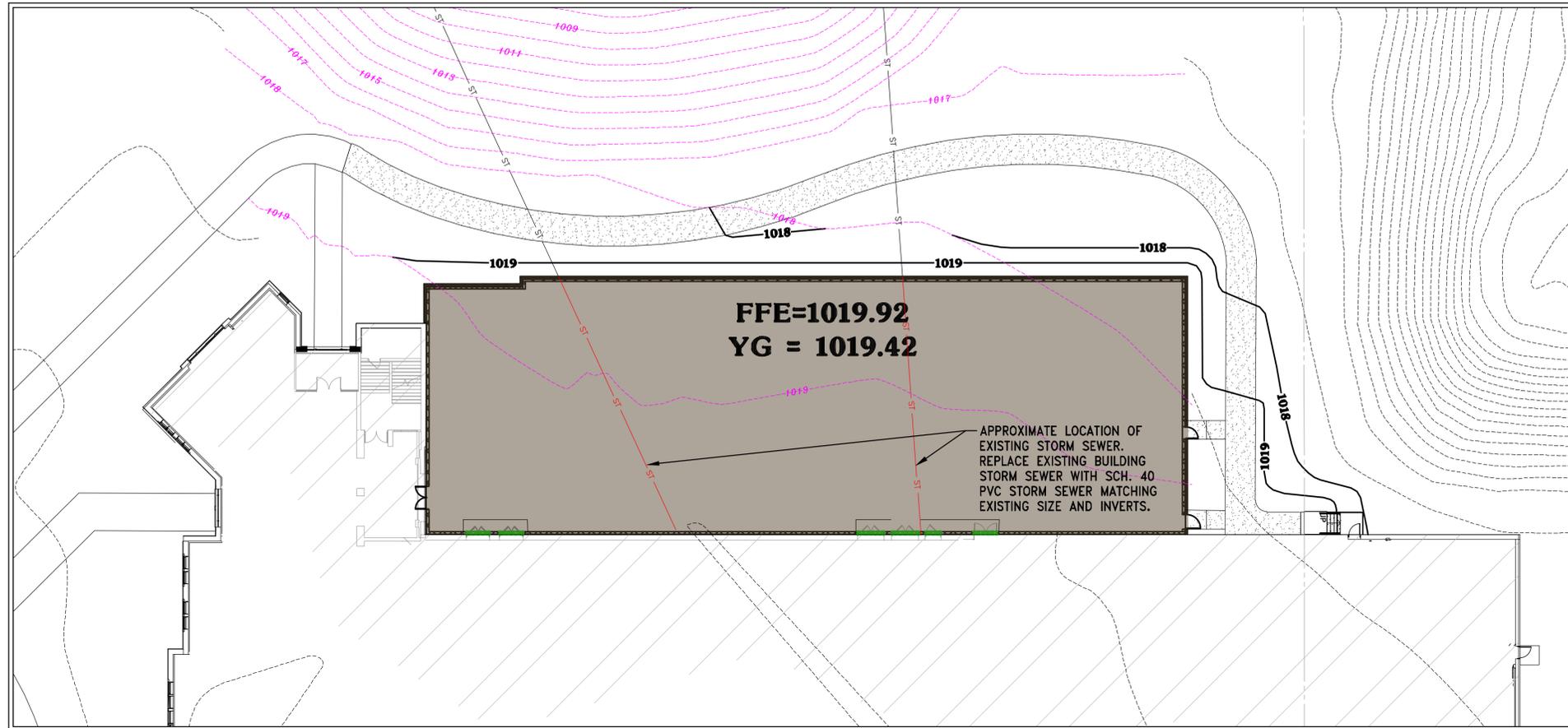
DATE:
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JOB NUMBER:
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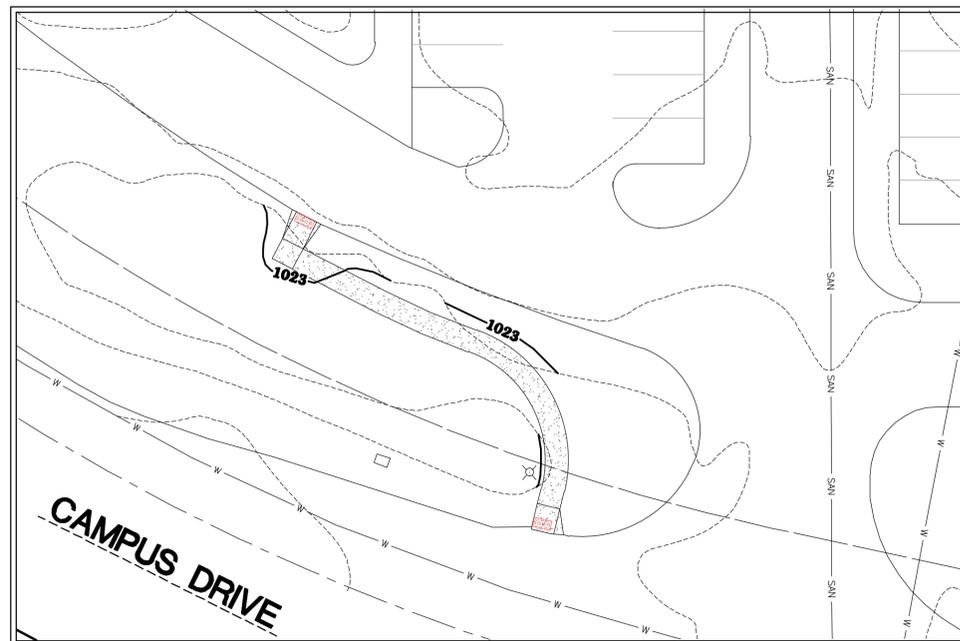
DESCRIPTION:
 GRADING PLAN -
 SOUTH PARKING

SHEET
C2.0

X:\2025\25-10-1092 LAKE COUNTRY LUTHERAN ADDITION - HARTLAND\DRAWINGS\PRELIMINARY\LAKE COUNTRY LUTHERAN ADDITION_GRADING AND EC_22X34.DWG



BUILDING ADDITION



SIDEWALK CONNECTION AT CAMPUS DRIVE



0 10 20 40
 SCALE: 1" = 20' (22"X34")
 SCALE: 1" = 40' (11"X17")

LEGEND:	
---795---	EXISTING CONTOUR
—795—	PROPOSED CONTOUR
←	PROPOSED FLOW ARROW
⊙P150.00	PROPOSED SPOT ELEVATION
FFE XXX.X	PROPOSED FIRST FLOOR ELEVATION

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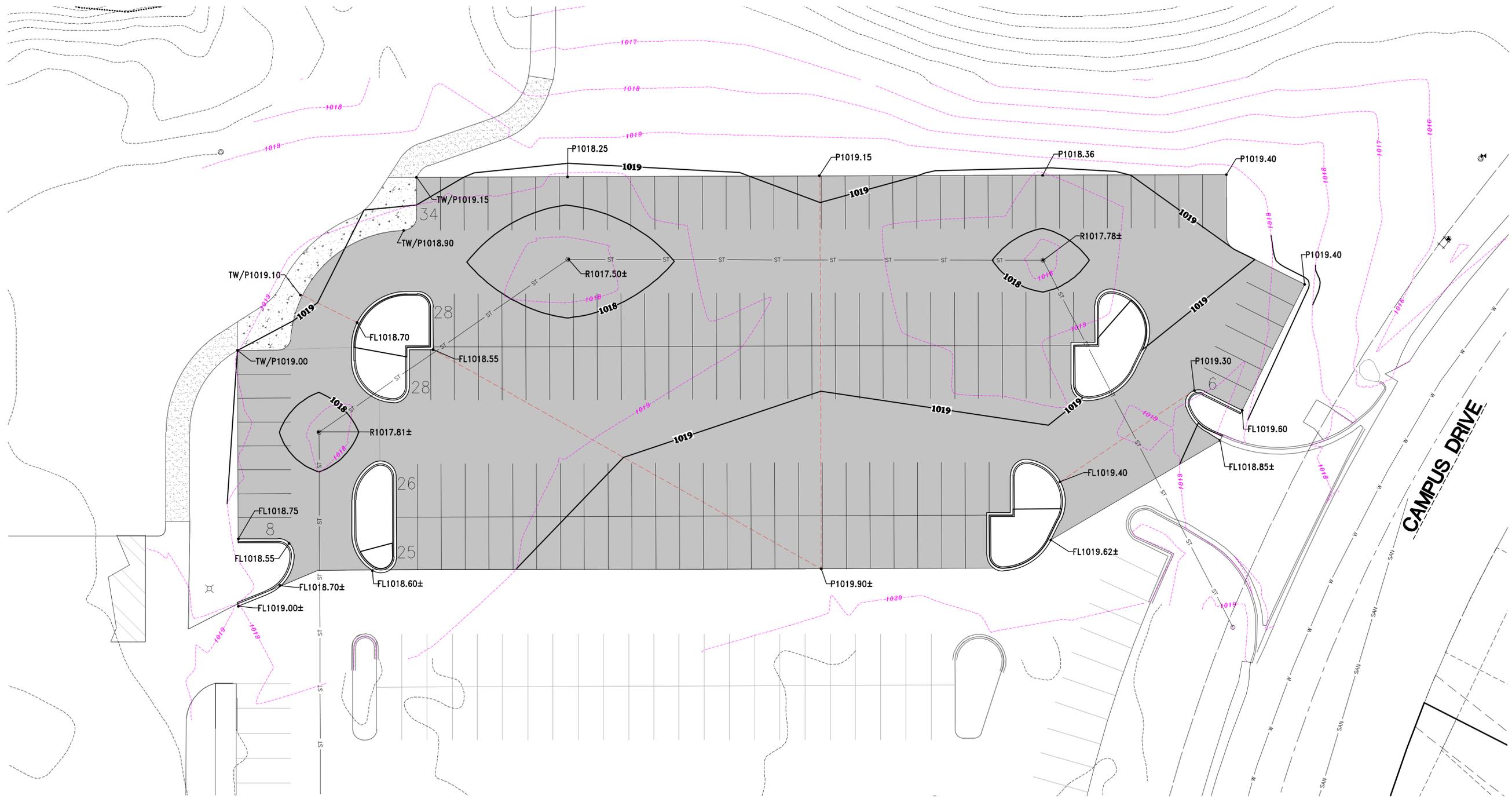
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JOB NUMBER:
 25-10-1092

DESCRIPTION:
 GRADING PLAN -
 BUILDING ADDITION

SHEET
C2.1

X:\2025\25-10-1092 LAKE COUNTRY LUTHERAN ADDITION - HARTLAND\DRAWINGS\PRELIMINARY\LAKE COUNTRY LUTHERAN ADDITION_GRADING AND EC_22X34.DWG



LEGEND:

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- 795 --- PROPOSED CONTOUR
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0 15 30 60
 SCALE: 1" = 30' (22"x34")
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REVISION HISTORY

DATE	DESCRIPTION
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DATE:
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JOB NUMBER:
 25-10-1092

DESCRIPTION:
 GRADING PLAN -
 NORTH PARKING

SHEET

C2.2

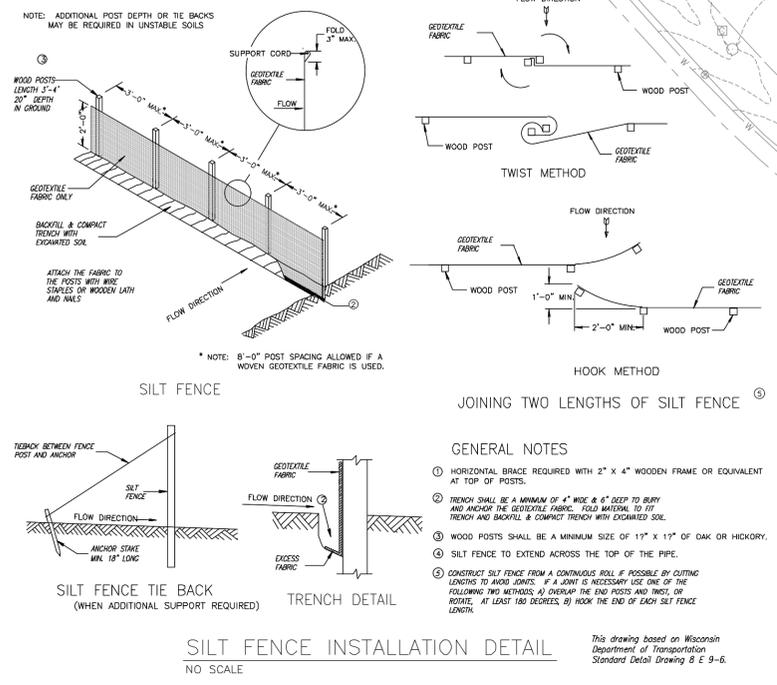
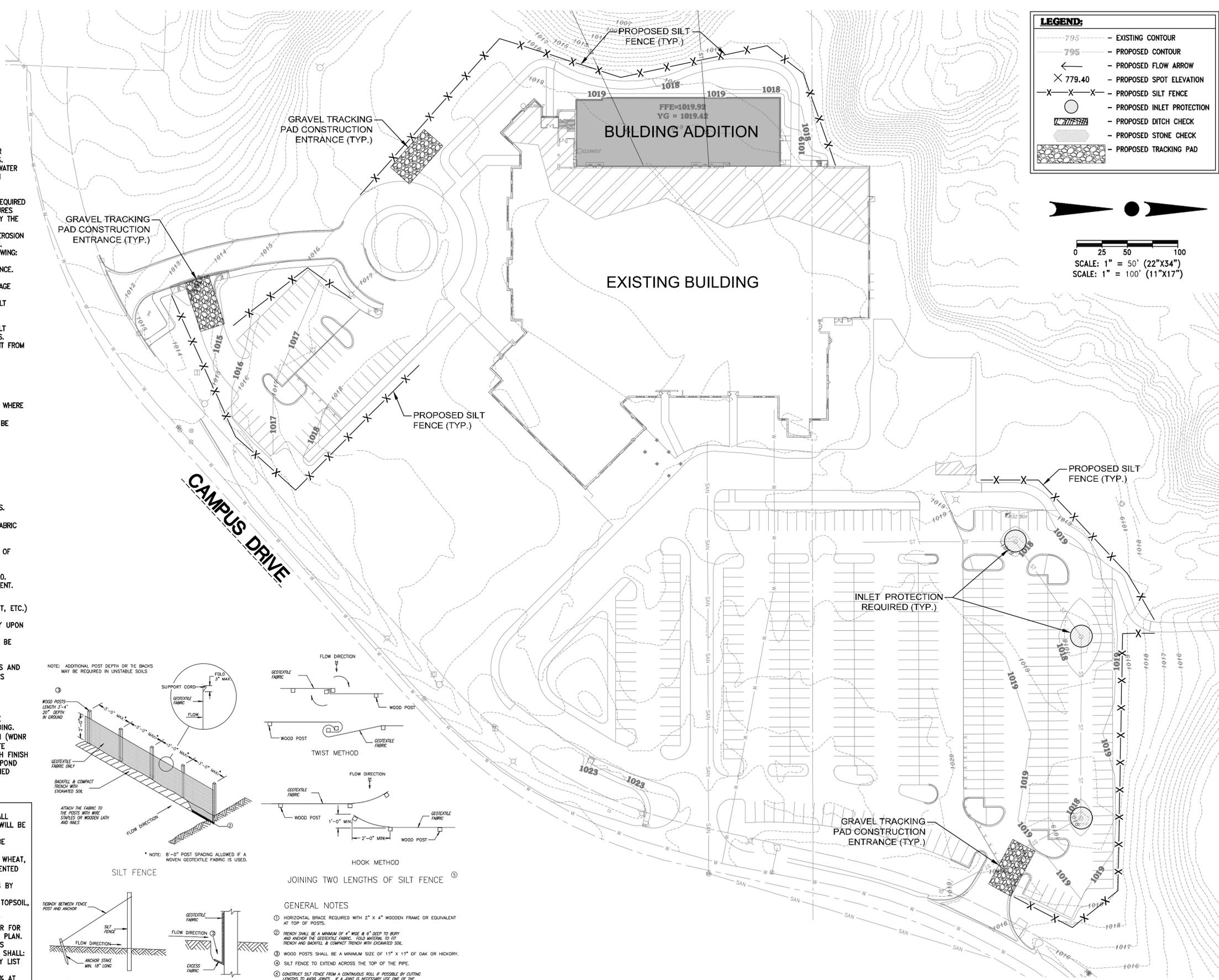
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- EROSION CONTROL NOTES:**
1. ALL EROSION CONTROL METHODS SHALL BE INSTALLED IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS AND VILLAGE OF HARTLAND STANDARDS AND REQUIREMENTS.
 2. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
 3. EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, THE CONTRACTOR MAY BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN, DETAILING SPECIFIC MEASURES THAT WILL BE USED IN THE VARIOUS STAGES OF CONSTRUCTION FOR APPROVAL BY THE ENGINEER.
 4. IMPLEMENTATION: THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL AFTER INITIAL EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
 5. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - A. DIVERT UPSTREAM RUNOFF FROM FLOWING THROUGH THE CONSTRUCTION SITE.
 - B. PROTECT DOWNSTREAM OR ADJACENT WATERWAYS AND WETLANDS WITH SILT FENCE.
 - C. DELAY STRIPPING TOPSOIL UNTIL REQUIRED FOR CONSTRUCTION.
 - D. PLACE SILT FENCE OR EROSION CONTROL BALES IN DITCHES AND OTHER DRAINAGE WAYS TO COLLECT SEDIMENT AND TO SLOW THE VELOCITY OF RUNOFF.
 - E. PROTECT STORM SEWER INLETS AND THE UPSTREAM END OF CULVERTS WITH SILT FENCE OR EROSION CONTROL BALES.
 - F. PROMPT REMOVAL OF EXCAVATED MATERIAL.
 - G. PROPER STORAGE OF BACKFILL AND BEDDING MATERIALS INCLUDING PLACING SILT FENCE OR EROSION CONTROL BALES ON THE DOWNSLOPE SIDES OF SPOIL PILES.
 - H. CONSTRUCTION OF TRACKING PAD TO CONSTRUCTION SITE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ROADWAYS.
 - I. PROMPT (SAME DAY) CLEANUP OF MATERIAL TRACKED ONTO ADJACENT STREETS.
 - J. TIMELY RESTORATION OF DAMAGE SURFACE AREAS.
 - K. ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER
 - L. MUST BE TEMPORARY SEEDED AS OF THAT DATE.
 6. TEMPORARY EROSION CONTROL MEASURES:
 - A. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES, WHERE EROSION IS LIKELY TO BE A PROBLEM, PRIOR TO BEGINNING WORK ON THOSE SECTION(S) OF THE PROJECT. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER PERMANENT EROSION CONTROL, SUCH AS SEEDING OR SODDING, HAS BEEN ESTABLISHED.
 - B. IN THE EVENT THE PERMANENT EROSION CONTROL MEASURES ARE NOT FULLY IMPLEMENTED IN CURRENT CONSTRUCTION SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL AFTER PERMANENT MEASURES HAVE BEEN COMPLETED IN THE FOLLOWING YEAR.
 7. ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN DAYS MUST BE IMMEDIATELY RESTORED WITH SEED AND MULCH.
 8. TRENCH DEWATERING SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS.
 9. INSTALL SILT FENCE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DETAILS
 10. ALL RIP RAP AT PIPE OUTLETS SHALL BE 3"x5" MEDIUM RIP RAP OVER TYPE R FABRIC PER WDOT SPECIFICATIONS UNLESS OTHERWISE DESIGNATED.
 11. EROSION CONTROL INSPECTION AND MAINTENANCE:
 - A. INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER SITE RECEIVES 0.5" OF RAIN IN A 24-HOUR PERIOD DURING CONSTRUCTION.
 - B. REPAIR OR REPLACE EROSION CONTROLS THAT ARE DAMAGED OR FAILING.
 12. ALL AREAS TO BE SEEDED AND MULCHED SHALL USE WDOT SEED MIXTURE NO. 20. MULCH SHALL APPLIED PER WDOT SPECIFICATIONS USING METHOD B FOR PLACEMENT.

- CONSTRUCTION SEQUENCE PLAN**
1. APPLY FOR NECESSARY LOCAL PERMITS (EROSION CONTROL, NOTICE OF INTENT, ETC.)
 2. INSTALL TRACKING PADS AND SILT FENCE PER PLAN.
 3. STRIP TOPSOIL AND STOCKPILE. SEED AND STABILIZE STOCKPILES IMMEDIATELY UPON COMPLETION OF STOCKPILING.
 - 3.1. ALL EXPOSED SOIL AREAS NOT DISTURBED FOR UP TO SEVEN DAYS MUST BE IMMEDIATELY RESTORED WITH SEED AND MULCH.
 4. BEGIN CONSTRUCTION OF SILT TRAP AND SEDIMENT SWAMP. CONCURRENT WITH CONSTRUCTION OF THE SILT TRAP, BEGIN CONSTRUCTION OF DIVERSION BERMS AND SWALES (WITH DITCH CHECKS) TO DIRECT SITE RUNOFF TO THE SILT TRAP, AS INDICATED ON THE PLAN.
 5. ROUGH GRADE SITE.
 6. BEGIN BUILDING AND PARKING LOT CONSTRUCTION.
 7. FINISH GRADE THE SITE.
 8. INSTALL STONE BASE COURSE, CONSTRUCT CURB, AND PLACE BINDER COURSE PAVEMENT. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH FINISH GRADING.
 9. RESPREAD 6" OF TOPSOIL AND PLACE SEED (WDNR TECH STD. 1059), MULCH (WDNR TECH STD. 1058), MATTING (WDNR TECH STD. 1052 & 1053) AND OTHER SITE STABILIZERS AS NEEDED. NOTE THAT THIS STEP MAY BEGIN CONCURRENT WITH FINISH GRADING AND ROAD CONSTRUCTION. ALSO NOTE THAT ANY AREAS, SUCH AS POND SLOPES, THAT ARE FINISH GRADED AND TOPSOILED SHALL BE SEEDED, MULCHED AND/OR MATTED IMMEDIATELY AFTER TOPSOIL IS PLACED.
 10. FINAL SURFACE OF PARKING LOT.

- LATE SEASON STABILIZATION NOTES:**
THE OBJECTIVE IS TO STABILIZE THE SITE WITH 70% VEGETATIVE COVERAGE OF ALL PERSISTENTLY DISTURBED AREAS BEFORE THE END OF THE GROWING SEASON. THIS WILL BE DONE BY SEEDED OF ALL DISTURBED AREAS WITH PERMANENT VEGETATION BY SEPTEMBER 15, 2023. IF THIS DEADLINE IS MISSED, THEN STABILIZATION WILL BE COMPLETED BY:
1. SEEDED OF ALL DISTURBED AREAS WITH TEMPORARY SEED MIX (OATS, WINTER WHEAT, ANNUAL RYE) BY OCTOBER 15. PERMANENT SEED MIX MUST THEN BE IMPLEMENTED BY JUNE 1 OF THE FOLLOWING YEAR.
 2. IF THE OCTOBER 15 DEADLINE IS MISSED, COVERAGE OF ALL DISTURBED AREAS BY NOVEMBER 1 WITH:
 - a. TOPSOIL, SEED, AND THE MATERIAL CALLED FOR ON THIS PLAN, WHERE TOPSOIL, SEED, AND EROSION CONTROL MATTING IS CALLED FOR.
 - b. TOPSOIL, SEED, AND TYPE A SOIL STABILIZER FROM THE WDOT PRODUCT ACCEPTABILITY LIST OR OTHER METHOD APPROVED BY THE CITY ENGINEER FOR ALL AREAS WHERE SEED, TOPSOIL, AND MULCH IS CALLED FOR ON THIS PLAN.
 3. IF THE NOVEMBER 1 DEADLINE HAS BEEN MISSED, AND THE CITY ENGINEER HAS DETERMINED THAT IT IS INFEASIBLE TO PLACE TOPSOIL, THE PERMIT APPLICANT SHALL:
 - a. APPLY TYPE A SOIL STABILIZER FROM THE WDOT PRODUCT ACCEPTABILITY LIST TO ALL DISTURBED AREAS.
 - b. INSTALL DITCH CHECKS IN ALL DITCHES WITH SLOPE GREATER THAN 0.5% AT INTERVALS SUCH THAT THE TOP OF THE DOWNHILL DITCH CHECK IS AT THE ELEVATION OF THE FOOT OF THE UPHILL DITCH CHECK. DITCH CHECKS SHALL BE EITHER:
 - i. TRIANGULAR FOAM-CORE
 - ii. STONE INSTALLED PER THE WDNR TECHNICAL STANDARD
 - iii. COMPOST-FILLED TUBES, OR
 - iv. A COMPARABLE PRODUCT AS APPROVED BY THE CITY ENGINEER.



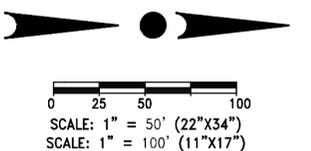
GENERAL NOTES

1. HORIZONTAL BRACE REQUIRED WITH 2" x 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/2" x 1 1/2" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAY THE END POSTS AND TRAIL OF ROLL; AT LEAST 180 DEGREES; B) HOOK THE END OF EACH SILT FENCE LENGTH.

This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6

LEGEND:

- 795 - EXISTING CONTOUR
- 795 - PROPOSED CONTOUR
- ← - PROPOSED FLOW ARROW
- X 779.40 - PROPOSED SPOT ELEVATION
- X X X - PROPOSED SILT FENCE
- - PROPOSED INLET PROTECTION
- ▭ - PROPOSED DITCH CHECK
- ▭ - PROPOSED STONE CHECK
- ▭ - PROPOSED TRACKING PAD



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PROJECT:
LAKE COUNTRY LUTHERAN ADDITION
VILLAGE OF HARTLAND, WISCONSIN
BY: GROTH DESIGN GROUP
N58W6161 COLUMBIA RD.
CEDARBURG, WI 53021

REVISION HISTORY

DATE	DESCRIPTION
3/21/2025	PRELIMINARY SUBMITTAL

DATE:
MARCH 21, 2025

JOB NUMBER:
25-10-1092

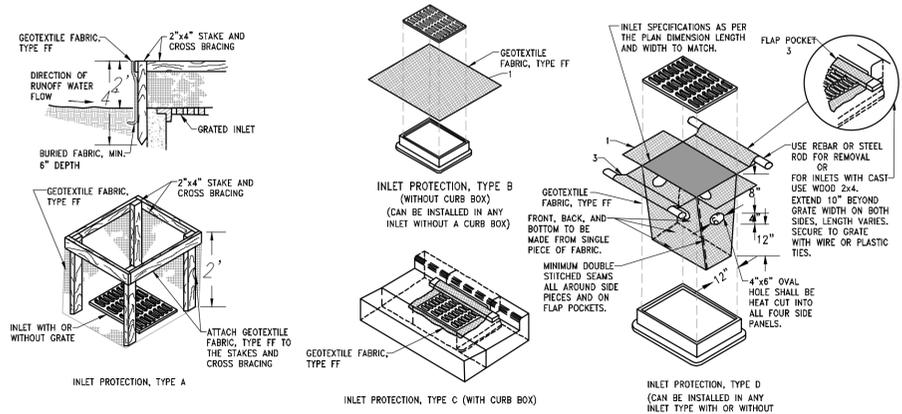
DESCRIPTION:
EROSION CONTROL PLAN

SHEET

C3.0

X:\2025\25-10-1092 LAKE COUNTRY LUTHERAN ADDITION - HARTLAND\DRAWINGS\PRELIMINARY\LAKE COUNTRY LUTHERAN ADDITION_GRADING AND EC_22X34.DWG

X:\2025\25-10-1092 LAKE COUNTRY LUTHERAN ADDITION - HARTLAND\DRAWINGS\PRELIMINARY\LAKE COUNTRY LUTHERAN ADDITION_COVER AND DETAILS_22X34.DWG



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.

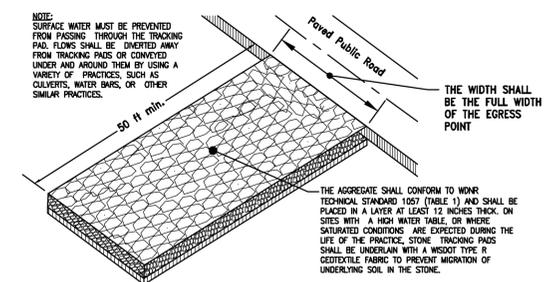
TYPE D
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30".

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.

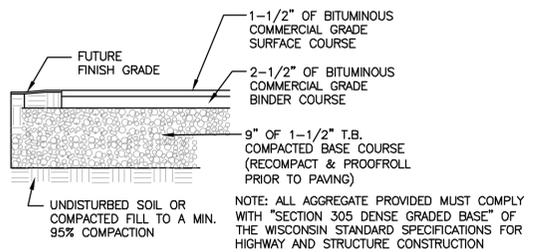
INLET PROTECTION DETAIL

NO SCALE



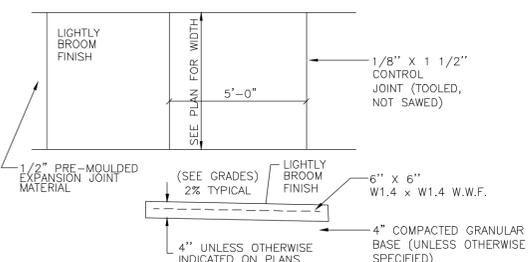
CONSTRUCTION ENTRANCE DETAIL

NO SCALE



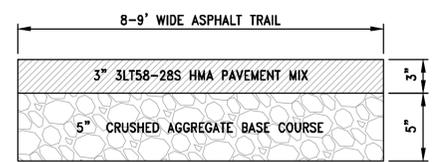
PARKING LOT ASPHALT PAVING DETAIL

NO SCALE



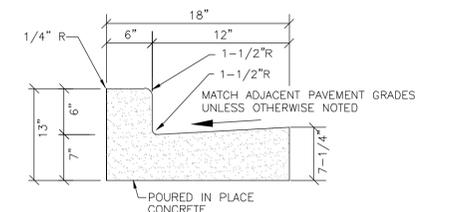
PRIVATE CONCRETE SIDEWALK

NO SCALE
NOTE: SEE C5.1 FOR PUBLIC SIDEWALK DETAIL.



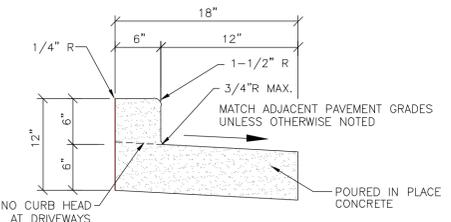
ASPHALT TRAIL CROSS SECTION

NO SCALE



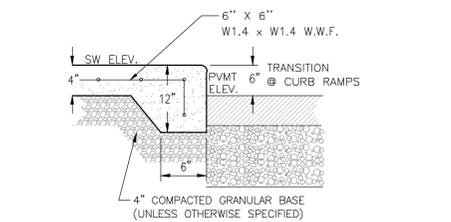
18" CATCH CONCRETE CURB & GUTTER

NO SCALE



18" REJECT CURB & GUTTER DETAIL

NO SCALE



INTEGRAL SIDEWALK & BARRIER CURB

NO SCALE



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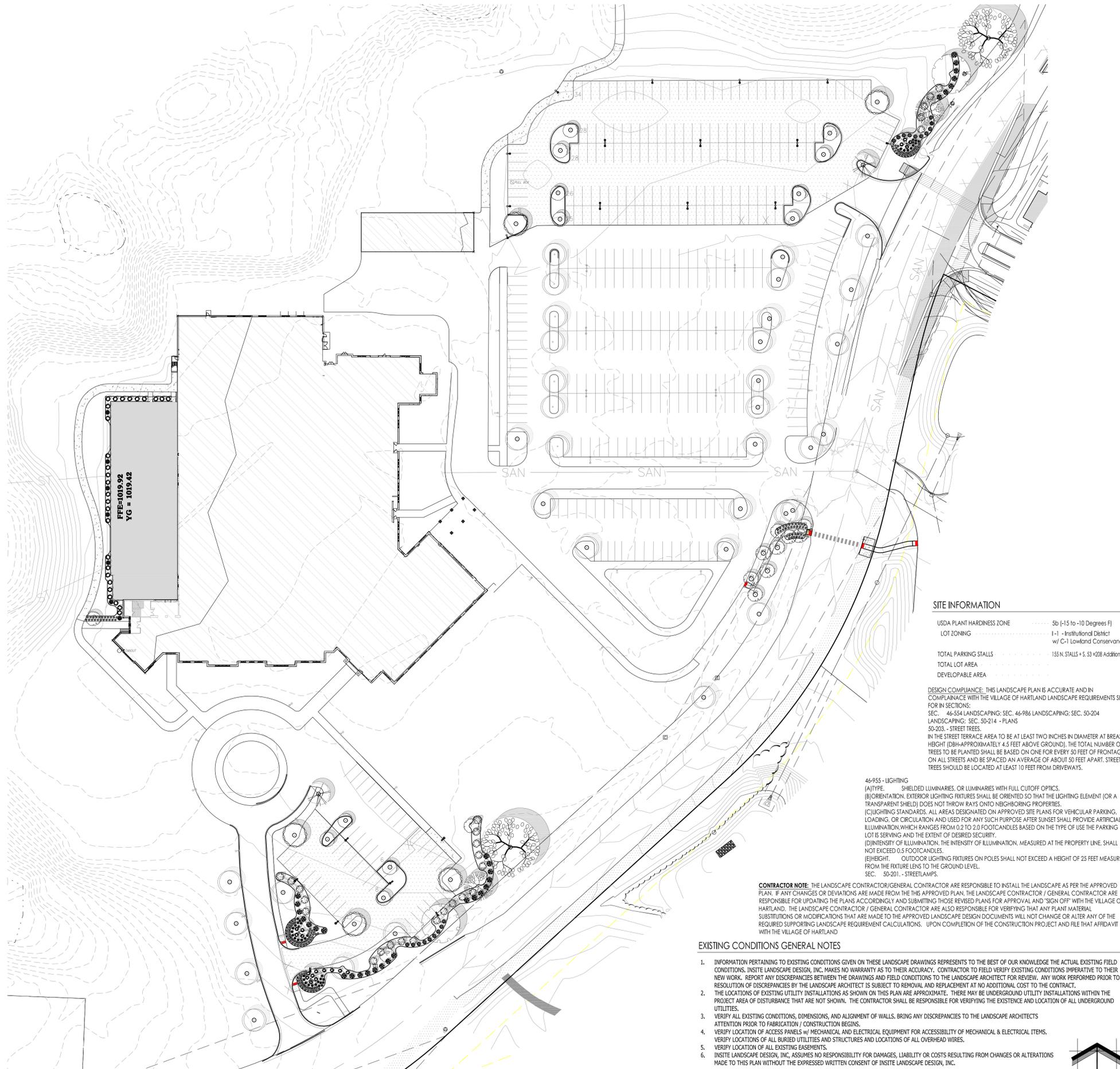
DATE:
MARCH 21, 2025

JOB NUMBER:
25-10-1092

DESCRIPTION:
CONSTRUCTION NOTES & DETAILS

SHEET

C4.0



1 PROPOSED LANDSCAPE PLAN

SCALE: 1" = 50'-0"

LANDSCAPE PLAN GENERAL NOTES

- PLANT MATERIAL SHOWN ON LANDSCAPE PLAN IS DEPICTED AT MATURE GROWTH.
- AT LEAST SEVENTY-TWO HOURS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AS GIVEN BY THE ELECTRIC, GAS, TELEPHONE, WATER, SEWER, AND CABLE TELEVISION COMPANIES, UTILITIES OR ENTITIES. REVIEW WITH OWNER'S REPRESENTATIVE SITE MECHANICAL, SITE ELECTRICAL AND LIGHTING, SITE GRADING AND DRAINAGE, SITE IRRIGATION AND ALL OTHER DRAWINGS PERTAINING TO UNDERGROUND UTILITY LOCATIONS. RECORD SET OF INFORMATION THE SAME AS IN POSSESSION OF OWNER'S REPRESENTATIVE. ALSO REVIEW OWNER'S "MARK SETS" OF ALL OF THESE DRAWINGS IN POSSESSION OF THE CONTRACTOR OR OWNER. MARK ALL SUCH UTILITIES ON THE SITE PRIOR TO COMMENCING. COORDINATE WITH OWNER BEFORE AND DURING CONSTRUCTION. REPAIR ANY DAMAGE TO ANY SYSTEM THAT IS CAUSED BY LANDSCAPE CONTRACTOR AT NO COST TO OWNER.
 - ALL PLANTINGS SPECIFIED FOR THE LAKE COUNTRY LUTHERAN- ADDITION PROJECT PLANTING TABLES SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1 2014 AND ANSI STANDARDS FOR PLANTING 2012.
 - ALL DEVIATIONS FROM THE APPROVED LAKE COUNTRY LUTHERAN - ADDITION PROJECT PLANS SHALL BE NOTED ON THE RECORD DRAWINGS BY THE CONTRACTOR AND MAY BE EXECUTED ONLY WITH PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE. VERBAL AGREEMENTS OR REVISIONS WITHOUT A CHANGE ORDER WILL NOT BE RECOGNIZED BY LANDSCAPE ARCHITECT AND OWNER.
 - ALL PLANTS MUST BE BID AND SELECTED PER THE SPECIES SPECIFIED ON THE PLANS. ANY SPECIES SUBSTITUTIONS MUST BE APPROVED IN WRITING BY LANDSCAPE ARCHITECT. THE SIZES OF PLANT MATERIAL LISTED HEREIN IS A MINIMUM ACCEPTABLE SIZE. ADDITIONALLY, IF EXCESSIVE PRUNING REDUCES THE CROWN THE PLANT SHALL BE REPLACED.
 - PROTECT PUBLIC FROM CONSTRUCTION WITH BARRIERS AND BARRICADES.
 - ALL AREAS THAT WERE DISTURBED DURING CONSTRUCTION AND AREAS NOT COVERED WITH PAVEMENT, BUILDING, PLANTING BEDS, OR TREE PITS ARE TO BE TOPSOILED 3" DEEP (MIN.) AND SHALL BE SODDED/SEEDED WITH SPECIFIED LAWN GRASS. LANDSCAPE CONTRACTOR SHALL INCLUDE COST PER SQUARE YARD FOR ADDITIONAL SEED OPERATIONS AS MAY BE POSSIBLY REQUIRED TO REESTABLISH ADJACENT TURF GRASS AREAS WHICH MAY BECOME DAMAGED DURING THE CONSTRUCTION PROCESS OR TO REPAIR DAMAGE DONE BY OTHERS.
 - CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR PROPER PLANTING AND INSTALLATION OF ALL LANDSCAPE MATERIAL.
 - QUANTITIES ON PLANT MATERIALS LIST ARE FOR CONVENIENCE OF BIDDING ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON LANDSCAPE PLANS AND COVERAGE OF ALL AREAS DELINEATED. THE PLANS ARE TO SUPERSEDE THE PLANT LIST IN ALL CASES.
 - CONTRACTOR IS RESPONSIBLE FOR ALL ESTIMATING AND BIDDING, ALL AREAS, QUANTITIES MATERIALS SHOULD BE FIELD VERIFIED WITH SITE CONDITION.
 - WHERE DISCREPANCIES OCCUR BETWEEN THE LANDSCAPE PLANS AND/OR ARCHITECTURAL AND/OR THE CIVIL DRAWINGS (AND ANY OTHER SITE DRAWINGS) THE DISCREPANCIES MUST BE BROUGHT TO THE LANDSCAPE ARCHITECT'S ATTENTION FOR COORDINATION AND RESOLUTION.
 - ALL DISEASED, NOXIOUS OR INAPPROPRIATE MATERIALS SHALL BE REMOVED FROM THE PROPOSED SITE PRIOR TO THE START OF CONSTRUCTION AND DURING THE MAINTENANCE PERIOD.
 - GENERAL CONTRACTOR SHALL LEAVE THE SITE FREE OF CONSTRUCTION DEBRIS.
 - ALL LAWN AND PLANTING AREAS SHALL SLOPE TO DRAIN A MINIMUM OF 2% UNLESS NOTED OTHERWISE AND REVIEWED WITH OWNER'S REPRESENTATIVE FOR FINAL APPROVAL.
 - FINISH GRADES FOR SHRUB AND GROUND COVER AREAS SHALL BE HELD 1" BELOW TOP OF ADJACENT PAVEMENTS AND CURBS, UNLESS NOTED OTHERWISE ON THE PLANS. REFER TO LSP1.2 FOR FURTHER INFORMATION.
 - ALL PERENNIAL, ANNUAL AND GROUND COVER AREAS TO RECEIVE A BLEND OF ORGANIC SOIL AMENDMENTS PRIOR TO PLANTING. TILL THE FOLLOWING MATERIALS INTO EXISTING TOPSOIL TO A DEPTH OF APPROXIMATELY 8". A DEPTH OF 12" IN TREE PITS. PROPORTIONS AND QUANTITIES MAY REQUIRE ADJUSTMENT DEPENDING ON THE CONDITION OF EXISTING SOIL. REFER TO LSP1.2 FOR FURTHER INFORMATION.
PER EVERY 100 SQUARE FEET ADD: ONE - 2 CUBIC FOOT BALE OF PEAT MOSS, 2 POUNDS OF 5-10-5 GARDEN FERTILIZER, 1/4 CUBIC YARD OF COMPOSTED MANURE OR OTHER COMPOSTED, ORGANIC MATERIAL.
 - ALL SHRUBS TO BE POCKET PLANTED WITH A 50/50 MIX OF COMPOSTED, ORGANIC MATERIAL AND EXISTING SOIL. INSTALL TOPSOIL INTO ALL BEDS AS NEEDED TO ACHIEVE PROPER GRADE. REMOVE ALL EXCESSIVE GRAVEL, CLAY AND STONES. REFER TO LSP1.2 FOR FURTHER INFORMATION.
 - PLANT ALL TREES SLIGHTLY HIGHER THAN FINISHED GRADE AT ROOT FLARE. BACK FILL HOLE WITH 2/3 EXISTING TOPSOIL AND ORGANIC SOIL AMENDMENTS SPECIFIED IN NOTE 15. AVOID ANY AIR POCKETS. DISCARD ANY GRAVEL, CLAY OR STONES. REFER TO LSP1.2 FOR FURTHER INFORMATION.
 - ALL TREES TO BE INSTALLED, STAKED AND GUYED ACCORDING TO DETAILS. REFER TO ANSI STANDARDS FOR PLANTING 2012 AND DETAILS ON LSP1.2 FOR FURTHER INFORMATION.
 - PROVIDE A 4'-0" - 5'-0" DIAMETER MULCH RING AT THE ROOT BALL FLARE OF ALL LAWN TREES.
 - ALL PLANTINGS TO BE WATERED AT THE TIME OF PLANTING, THROUGHOUT CONSTRUCTION AND UPON COMPLETION OF PROJECT AS REQUIRED.
 - WHERE SPECIFIED, ALL PLANT BEDS, PITS AND TREE RINGS ARE TO RECEIVE A MINIMUM OF 2" - 3" DRESSING OF SHREDDED HARDWOOD OAK BARK MULCH SHAVINGS FREE OF GROWTH, WEEDS, FOREIGN MATTER DETRIMENTAL TO PLANT LIFE OR GERMINATION INHIBITING INGREDIENTS. LANDSCAPE CONTRACTOR TO PROVIDE A SAMPLE TO OWNER FOR APPROVAL. CONTRACTOR TO TAKE CARE WITH INSTALLATION NOT TO DAMAGE OR COVER PLANTS. REFER TO LSP1.2 FOR FURTHER INFORMATION.
 - LAWN INSTALLATION: CONTRACTOR TO FURNISH AND PREPARE TOPSOIL (3" MIN) AND SEED BED (REMOVE ALL STONES 1" OR LARGER), APPLY STARTER FERTILIZER AND SEED UNIFORMLY. PROVIDE A MULCH COVERING SUITABLE TO GERMINATE AND ESTABLISH TURF. EROSION CONTROL MESH SHOULD BE USED IN SWALES AND STEEP GRADES WHERE APPLICABLE. METHODS OF INSTALLATION MAY VARY AT THE DISCRETION OF CONTRACTOR. IT IS HIS/HER RESPONSIBILITY TO ESTABLISH AND GUARANTEE A SMOOTH, UNIFORM, QUALITY TURF. IF STRAW MULCH IS USED AS A COVERING, A TACKIFIER MAY BE NECESSARY TO AVOID WIND DAMAGE.
 - DELUXE 50 GRASS SEED MIX REINDER'S (800) 785-3301**
20% KENTUCKY BLUE GRASS
15% NEWPORT KENTUCKY BLUE GRASS
15% SR 2100 Kentucky Bluegrass
25% Creeping Red Fescue
15% Replicator Perennial Ryegrass
10% Fiesta 4 Perennial Ryegrass
APPLY AT A RATE OF 200 POUNDS PER ACRE. REFER TO SUPPLIERS SPECIFICATIONS & INSTALLATION CUT SHEETS FOR FURTHER FORMATION
 - DURING THE INITIAL "30 DAY MAINTENANCE PERIOD" THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE AND ON-GOING PLEASANT VISUAL ENVIRONMENT WHEREAS ANY PLANT WHICH IS NOT RESPONDING TO TRANSPORTING OR THROWING SHALL IMMEDIATELY BE REPLACED. NEW LAWNS SHALL BE WATERED AND REPAIRED AND WEEDS MUST CONSTANTLY BE REMOVED, NO EXCEPTIONS WILL BE GRANTED.
MAINTENANCE NOTE:
MAINTENANCE IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN REQUIRED LANDSCAPING IN ACCORDANCE WITH THE MUNICIPALITY'S PROPERTY MAINTENANCE CODE AND AN APPROVED MAINTENANCE PLAN. THE MAINTENANCE MUST INCLUDE, AT A MINIMUM, METHODS FOR PROVIDING THE FOLLOWING:
• NECESSARY IRRIGATION (IF REQUIRED)
• INTEGRATED PEST MANAGEMENT,
• PROPER FERTILIZATION
• TREE CARE AND PRUNING, SHRUB TIP CLIPPING AND SHAPING AS REQUIRED
• REPLACEMENT OF LOST VEGETATION, AND ALL DISEASED, DAMAGED, OR DEAD MATERIAL WILL BE REPLACED BY THE END OF THE FOLLOWING PLANTING SEASON IN PERPETUITY.
• WEED MANAGEMENT AND BED CARE.
 - ALL NEWLY PLANTED TREES AND SHRUBS ARE TO RECEIVE AN APPLICATION OF AN ANTI-TRANSPARENT SPRAY THAT WILL EFFECTIVELY REDUCE THE WATER LOSS OF TRANSPARATION OF PLANT MATERIAL AND REDUCE THE STRESS OF TRANSPORTATION. IT IS RECOMMENDED AS PART OF THE ONGOING MAINTENANCE THAT ANY BROADLEAF EVERGREEN AND CONIFEROUS TREE AND SHRUBS (EXCLUDING ARBORVITAE) RECEIVE AN APPLICATION OF AN ANTI-DESICANT SPRAY TO REDUCE THE LOSS OF MOISTURE DUE TO WINTER DESICCATION.
 - MAINTENANCE. THE OWNER SHALL TEND AND MAINTAIN ALL PLANT MATERIALS IN A HEALTHY GROWING CONDITION AS PER THE APPROVED PLAN. PLANTING SHALL BE REPLACED WHEN NECESSARY AND KEPT FREE FROM REFUSE & DEBRIS. ALL PLANTING MATERIAL WHICH IS DYING OR DAMAGED BEYOND RECOVERY SHALL BE REPLACED WITHIN SIX (6) MONTHS OR BY THE NEXT PLANTING SEASON, WHICHEVER COMES FIRST.
 - LANDSCAPE / SITE DEMOLITION CONTRACTOR TO VERIFY LOCATIONS OF EXISTING TREES AND SHRUBS TO BE SALVAGED AND CLEARLY TAG THEM WITH MARKING TAPE AND CONSTRUCTION FENCE.

SITE INFORMATION

USDA PLANT HARDINESS ZONE: Sb (-15 to -10 Degrees F)
 LOT ZONING: I-1 - Institutional District w/ C-1 Lowland Conservancy
 TOTAL PARKING STALLS: 155 N. STALLS + 5.53 #208 Additional Stall
 TOTAL LOT AREA: [unintelligible]
 DEVELOPABLE AREA: [unintelligible]

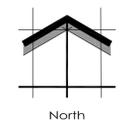
DESIGN COMPLIANCE: THIS LANDSCAPE PLAN IS ACCURATE AND IN COMPLIANCE WITH THE VILLAGE OF HARTLAND LANDSCAPE REQUIREMENTS SET FOR IN SECTIONS:
 SEC. 46-554 LANDSCAPING; SEC. 46-986 LANDSCAPING; SEC. 50-204 LANDSCAPING; SEC. 50-214 - PLANS 50-203 - STREET TREES.
 IN THE STREET TERRACE AREA TO BE AT LEAST TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH-APPROXIMATELY 4.5 FEET ABOVE GROUND). THE TOTAL NUMBER OF TREES TO BE PLANTED SHALL BE BASED ON ONE FOR EVERY 50 FEET OF FRONTAGE ON ALL STREETS AND BE SPACED AN AVERAGE OF ABOUT 50 FEET APART. STREET TREES SHOULD BE LOCATED AT LEAST 10 FEET FROM DRIVEWAYS.

46-955 - LIGHTING
 (A) TYPE: SHIELDED LUMINARIES, OR LUMINARIES WITH FULL CUTOFF OPTICS.
 (B) ORIENTATION: EXTERIOR LIGHTING FIXTURES SHALL BE ORIENTED SO THAT THE LIGHTING ELEMENT (OR A TRANSPARENT SHIELD) DOES NOT THROW RAYS ONTO NEIGHBORING PROPERTIES.
 (C) LIGHTING STANDARDS: ALL AREAS DESIGNATED ON APPROVED SITE PLANS FOR VEHICULAR PARKING, LOADING, OR CIRCULATION AND USED FOR ANY SUCH PURPOSE AFTER SUNSET SHALL PROVIDE ARTIFICIAL ILLUMINATION WHICH RANGES FROM 0.2 TO 2.0 FOOT CANDLES BASED ON THE TYPE OF USE THE PARKING LOT IS SERVING AND THE EXTENT OF DESIRED SECURITY.
 (D) INTENSITY OF ILLUMINATION: THE INTENSITY OF ILLUMINATION, MEASURED AT THE PROPERTY LINE, SHALL NOT EXCEED 0.5 FOOT CANDLES.
 (E) HEIGHT: OUTDOOR LIGHTING FIXTURES ON POLES SHALL NOT EXCEED A HEIGHT OF 25 FEET MEASURED FROM THE FIXTURE LENS TO THE GROUND LEVEL.
 SEC. 50-201 - STREET LAMPS.

CONTRACTOR NOTE: THE LANDSCAPE CONTRACTOR/GENERAL CONTRACTOR ARE RESPONSIBLE TO INSTALL THE LANDSCAPE AS PER THE APPROVED PLAN. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THE THIS APPROVED PLAN, THE LANDSCAPE CONTRACTOR / GENERAL CONTRACTOR ARE RESPONSIBLE FOR UPDATING THE PLANS ACCORDINGLY AND SUBMITTING THOSE REVISED PLANS FOR APPROVAL AND "SIGN OFF" WITH THE VILLAGE OF HARTLAND. THE LANDSCAPE CONTRACTOR / GENERAL CONTRACTOR ARE ALSO RESPONSIBLE FOR VERIFYING THAT ANY PLANT MATERIAL SUBSTITUTIONS OR MODIFICATIONS THAT ARE MADE TO THE APPROVED LANDSCAPE DESIGN DOCUMENTS WILL NOT CHANGE OR ALTER ANY OF THE REQUIRED SUPPORTING LANDSCAPE REQUIREMENT CALCULATIONS. UPON COMPLETION OF THE CONSTRUCTION PROJECT AND FILE THAT AFFIDAVIT WITH THE VILLAGE OF HARTLAND

EXISTING CONDITIONS GENERAL NOTES

- INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THESE LANDSCAPE DRAWINGS REPRESENTS TO THE BEST OF OUR KNOWLEDGE THE ACTUAL EXISTING FIELD CONDITIONS. INSITE LANDSCAPE DESIGN, INC. MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS IMPERATIVE TO THEIR NEW WORK. REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT FOR REVIEW. ANY WORK PERFORMED PRIOR TO RESOLUTION OF DISCREPANCIES BY THE LANDSCAPE ARCHITECT IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT.
- THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA OF DISTURBANCE THAT ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES.
- VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ALIGNMENT OF WALLS. BRING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECTS ATTENTION PRIOR TO FABRICATION / CONSTRUCTION BEGINS.
- VERIFY LOCATION OF ACCESS PANELS W/ MECHANICAL AND ELECTRICAL EQUIPMENT FOR ACCESSIBILITY OF MECHANICAL & ELECTRICAL ITEMS.
- VERIFY LOCATIONS OF ALL BURIED UTILITIES AND STRUCTURES AND LOCATIONS OF ALL OVERHEAD WIRES.
- VERIFY LOCATION OF ALL EXISTING EASEMENTS.
- INSITE LANDSCAPE DESIGN, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF INSITE LANDSCAPE DESIGN, INC.



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 Landscape Consulting
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 Wauwatosa, WI 53226
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 www.insitedesigninc.com
 mdavis@insitedesigninc.com

Project:
LAKE COUNTRY LUTHERAN - ADDITION
 401 Campus Drive
 Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
03/28/25		Plan Commission Submittal

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Sheet Title:
 PROPOSED OVERALL PROJECT SCOPE LANDSCAPE PLAN, GENERAL NOTES.

Date of Drawing: 03/28/25
 Scale: 1" = 50'-0"
 Drawn By: MCD
 Job Number: L25-018
 Sheet Number:

LSP1.1

TO OBTAIN LOCATION OF PARTICIPANT'S UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

DIGGERS HOT LINE

WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM OF 3 DAYS NOTICE BEFORE YOU EXCAVATE (NOT INCLUDING SATURDAY, SUNDAY OR LEGAL HOLIDAYS)

UNDERGROUND SEWER AND UTILITY INFORMATION AS SHOWN IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

TO OBTAIN LOCATION OF PARTICIPANT'S UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN CALL THE MILWAUKEE UTILITY ALERT NETWORK
 www.DiggersHotline.com
 (800) 242-8511
 OR

811
 Know what's Below.
 Call before you dig.

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Project:

**LAKE COUNTRY
LUTHERAN
-ADDITION**

401 Campus Drive
Hartland, WI 53029

Issuance and Revisions:

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Sheet Title:

PROPOSED PARTIAL
LANDSCAPE PLANS,
AND PLANT MATERIAL TABLES

Date of Drawing: 03/28/25

Scale: 1" = 20'-0"

Drawn By: MCD

Job Number: L25-018

Sheet Number:

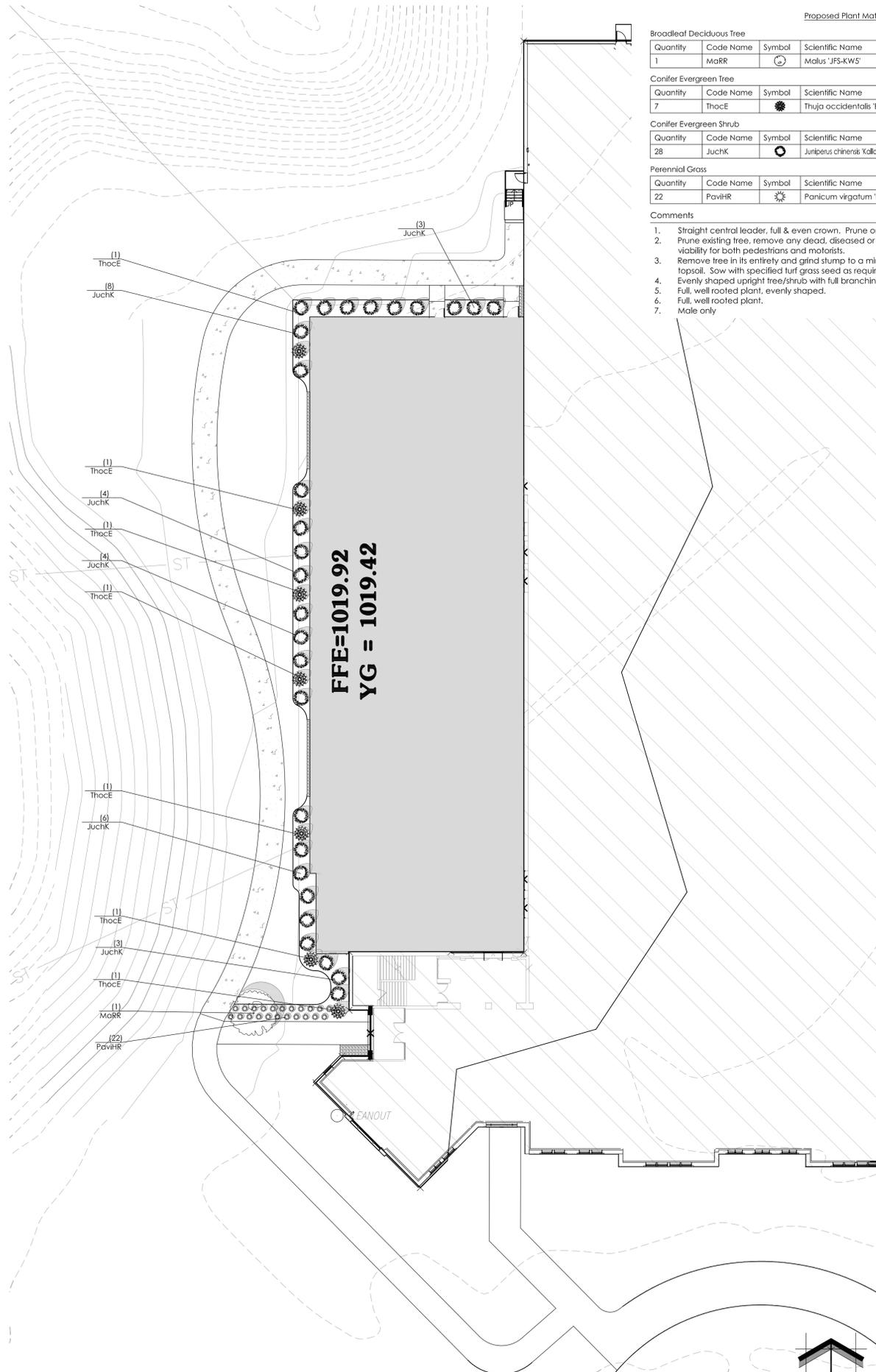
LSP1.2

Proposed Plant Material Table - LSP1.2 of Addition Foundation

Broadleaf Deciduous Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
1	MaRR		Malus 'JFS-KW5'	Royal Raindrops Crabapple	1 1/2' Cal - B&B	1
Conifer Evergreen Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
7	ThocE		Thuja occidentalis 'Emerald'	Emerald Arborvitae	5' - 6' - B&B	4
Conifer Evergreen Shrub						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
28	JuchK		Juniperus chinensis 'Kallay's Compact'	Kallay's Compact Juniper	18" - 24" - B&B	5
Perennial Grass						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
22	PaviHR		Panicum virgatum 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	6

Comments

- Straight central leader, full & even crown. Prune only after planting.
- Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
- Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
- Evenly shaped upright tree/shrub with full branching to the ground.
- Full, well rooted plant, evenly shaped.
- Full, well rooted plant.
- Male only



1 PROPOSED PARTIAL LANDSCAPE PLAN AT ADDITION FOUNDATION

SCALE: 1" = 20'-0"



North



2 PROPOSED PARTIAL LANDSCAPE PLAN AT NEW PEDESTRIAN WALKWAY

SCALE: 1" = 20'-0"



North

Broadleaf Deciduous Tree						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
9	MaRR		Malus 'JFS-KW5'	Royal Raindrops Crabapple	1 1/2' Cal - B&B	1
5	Exig		Existing to Remain	Existing to Remain	Existing	2
Grass						
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
34	PaviHR		Panicum virgatum 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	6

Comments

- Straight central leader, full & even crown. Prune only after planting.
- Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and viability for both pedestrians and motorists.
- Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
- Evenly shaped upright tree with full branching to the ground.
- Full, well rooted plant, evenly shaped.
- Full, well rooted plant.
- Male only

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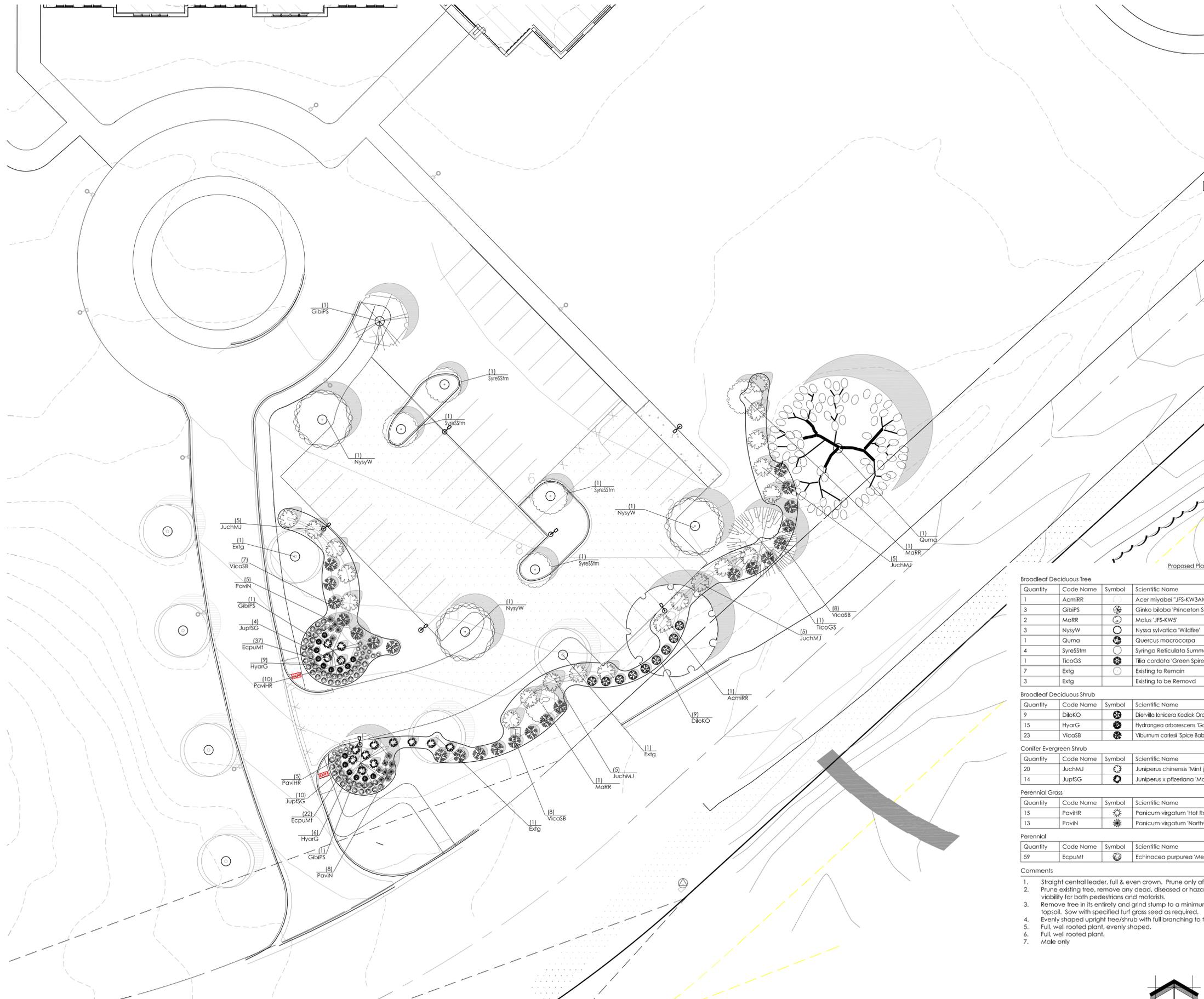
Project:

**LAKE COUNTRY
 LUTHERAN
 -ADDITION**

401 Campus Drive
 Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
03/28/25		Plan Commission Submittal



Proposed Plant Material Table - LSP1.3

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
1	AcniRR		Acer miyabei 'JFS-KW3AM'	Rugged Ridge Maple	2"-Cal - B&B	1
3	GIBiPS		Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Maidenhair Tree	2"-Cal - B&B	1, 7
2	MaRR		Malus 'JFS-KWS'	Royal Raindrops Crabapple	2"-Cal - B&B	1
3	NysyW		Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	2"-Cal - B&B	1
1	Quma		Quercus macrocarpa	Bur oak	2"-Cal - B&B	1
4	SyreSStm		Syringa reticulata 'Summer Storm'	Summer Storm Japanese Tree Lilac	2"-Cal - B&B	1
1	TicoGS		Tilia cordata 'Green Spire'	Green Spire Linden	2"-Cal - B&B	1
7	Extg		Existing to Remain	Existing to Remain	Existing	2
3	Extg		Existing to be Removd	Existing to be Removd	Existing	3

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
9	DiloKO		Diervilla lonicera Kodjak Orange	Kodjak Orange Bush Honeysuckle Diervilla	18" - 24" - Cont	5
15	HyarG		Hydrangea arborescens 'Garnetta'	Invincibelle Garnetta Smooth Hydrangea	18" - Cont	5
23	VicaSB		Viburnum carlesii 'Spice Baby'	Spice Baby Viburnum	18" - 24" - Cont	5

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
20	JuchMJ		Juniperus chinensis 'Mint julep'	Mint julep juniper	18" - 24" - B&B	5
14	JupISG		Juniperus x pfitzeriana 'MonSan'	Sea of Gold Juniper	18" - 24" - B&B	5

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
15	PavHR		Panicum virgatum 'Hot Rod'	Hot Rod Switch Grass	2-Gal - Cont	6
13	PavIN		Panicum virgatum 'Northwind'	Northwind Switch Grass	1-Gal - Cont	6

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
59	EcpuMT		Echinacea purpurea 'Merlot'	Merlot Coneflower	4 1/2" pot	6

- Comments
- Straight central leader, full & even crown. Prune only after planting.
 - Prune existing tree, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and visibility for both pedestrians and motorists.
 - Remove tree in its entirety and grind stump to a minimum of 6" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
 - Evenly shaped upright tree/shrub with full branching to the ground.
 - Full, well rooted plant, evenly shaped.
 - Full, well rooted plant.
 - Male only

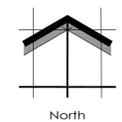
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Sheet Title:

**PROPOSED PARTIAL
 LANDSCAPE PLAN,
 AND PLANT MATERIAL TABLE**

Date of Drawing: 03/28/25
 Scale: 1" = 20'-0"
 Drawn By: MCD
 Job Number: L25-018
 Sheet Number:

LSP1.3



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Project:

**LAKE COUNTRY
LUTHERAN
-ADDITION**

401 Campus Drive
Hartland, WI 53029

Issuance and Revisions:

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Date of Drawing: 03/28/25

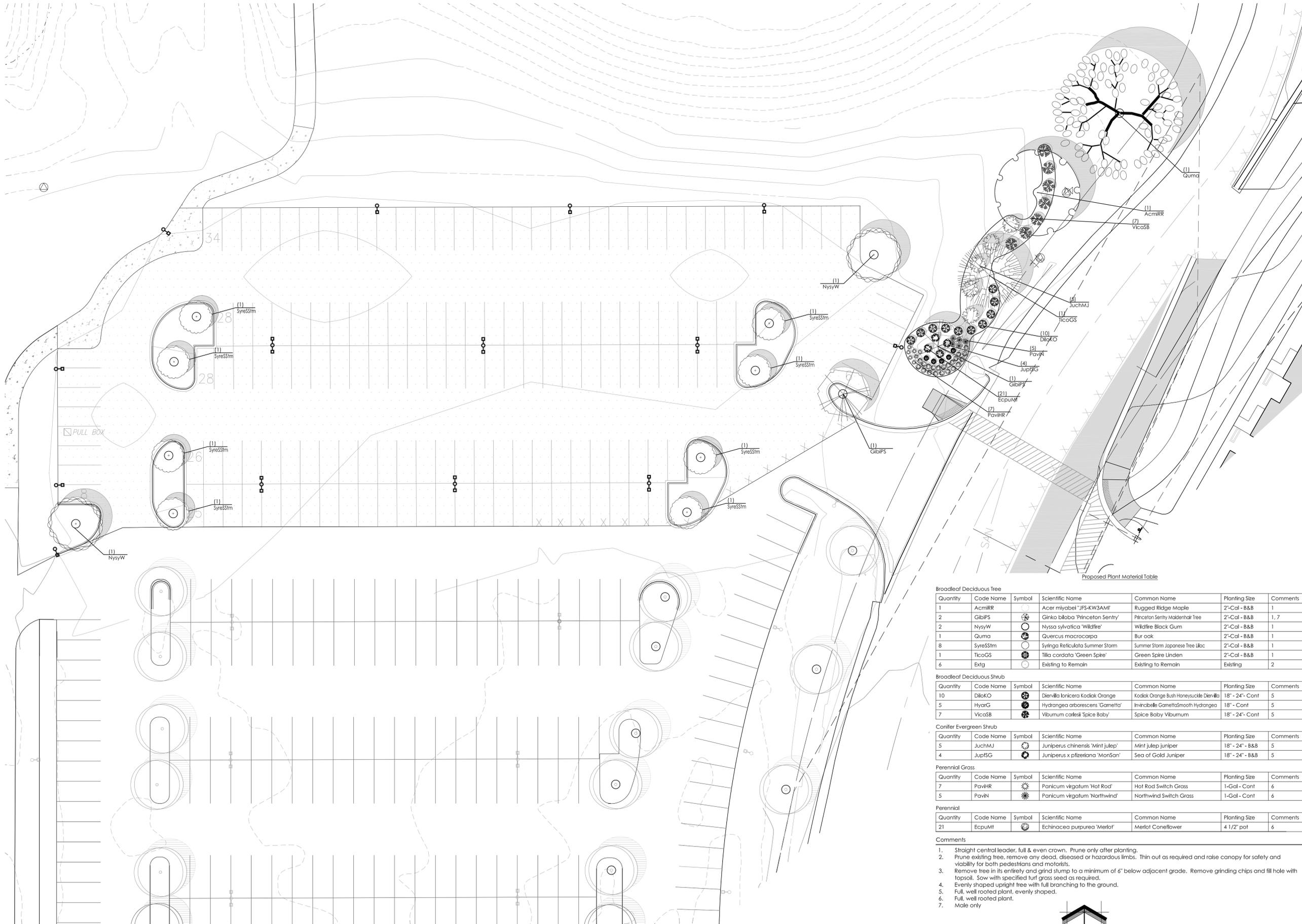
Scale: 1" = 20'-0"

Drawn By: MCD

Job Number: L25-018

Sheet Number:

LSP1.4



Broadleaf Deciduous Tree

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
1	AcmRR	○	Acer miyabei 'JFS-KW3AM'	Rugged Ridge Maple	2'-Cal - B&B	1
2	GibiPS	○	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Maidenhair Tree	2'-Cal - B&B	1, 7
2	NysyW	○	Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	2'-Cal - B&B	1
1	Quma	○	Quercus macrocarpa	Bur oak	2'-Cal - B&B	1
8	SyresStm	○	Syringa Reticulata Summer Storm	Summer Storm Japanese Tree Lilac	2'-Cal - B&B	1
1	TicoGS	○	Tilia cordata 'Green Spire'	Green Spire Linden	2'-Cal - B&B	1
6	Extg	○	Existing to Remain	Existing to Remain	Existing	2

Broadleaf Deciduous Shrub

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
10	DiloKO	⊗	Diervilla lonicera Kodak Orange	Kodak Orange Bush Honeysuckle Diervilla	18" - 24" - Cont	5
5	HyarG	⊗	Hydrangea arborescens 'Garnetta'	Invincible GarnettaSmooth Hydrangea	18" - Cont	5
7	VicoSB	⊗	Viburnum carlesii 'Spice Baby'	Spice Baby Viburnum	18" - 24" - Cont	5

Conifer Evergreen Shrub

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
5	JuchMJ	⊗	Juniperus chinensis 'Mint julep'	Mint julep juniper	18" - 24" - B&B	5
4	JupISG	⊗	Juniperus x pfitzeriana 'MonSan'	Sea of Gold Juniper	18" - 24" - B&B	5

Perennial Grass

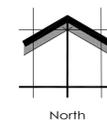
Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
7	PaviHR	☼	Panicum virgatum 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	6
5	PaviN	☼	Panicum virgatum 'Northwind'	Northwind Switch Grass	1-Gal - Cont	6

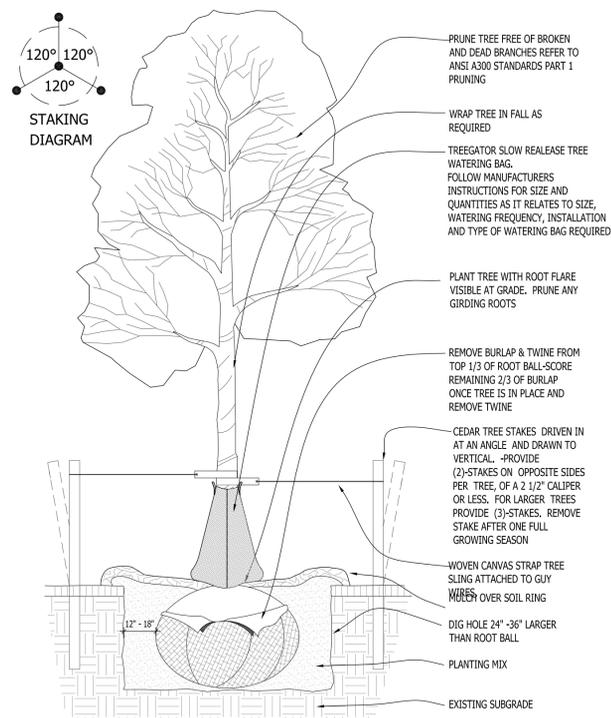
Perennial

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
21	EcpuM	⊗	Echinacea purpurea 'Merlot'	Merlot Coneflower	4 1/2" pot	6

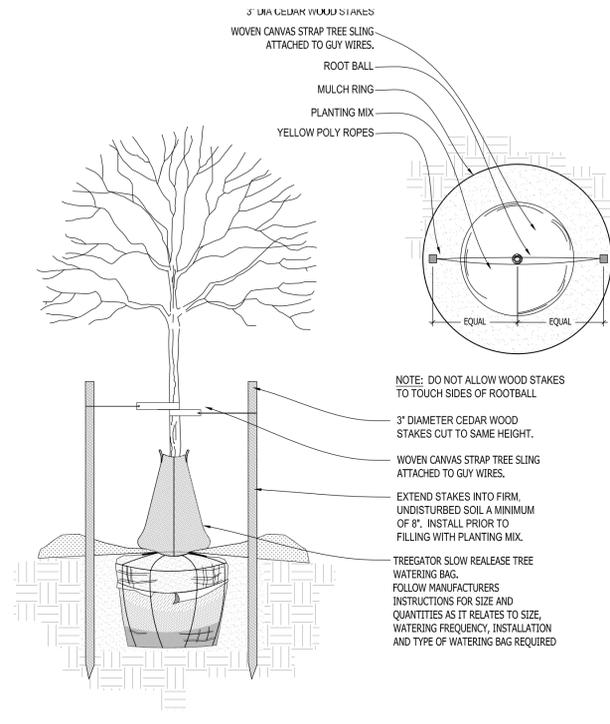
- Comments
1. Straight central leader, full & even crown. Prune only after planting.
 2. Prune existing trees, remove any dead, diseased or hazardous limbs. Thin out as required and raise canopy for safety and visibility for both pedestrians and motorists.
 3. Remove tree in its entirety and grind stump to a minimum of 4" below adjacent grade. Remove grinding chips and fill hole with topsoil. Sow with specified turf grass seed as required.
 4. Evenly shaped upright tree with full branching to the ground.
 5. Full, well rooted plant, evenly shaped.
 6. Full, well rooted plant.
 7. Male only

SCALE: 1" = 20'-0"

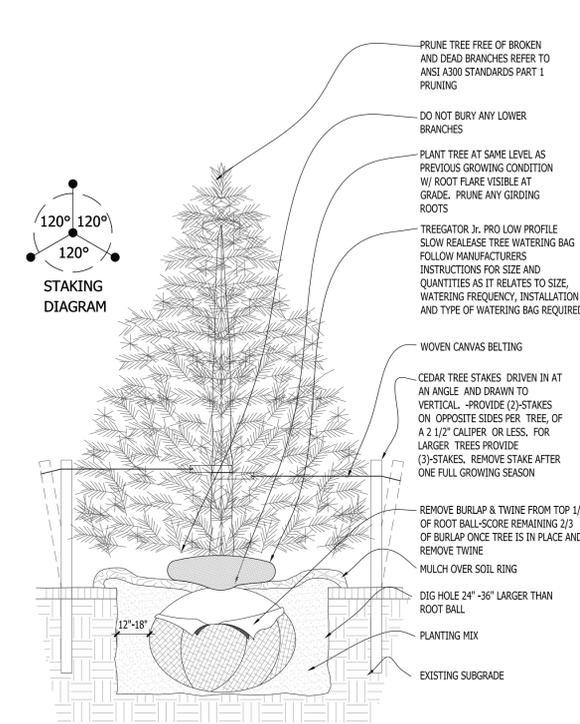




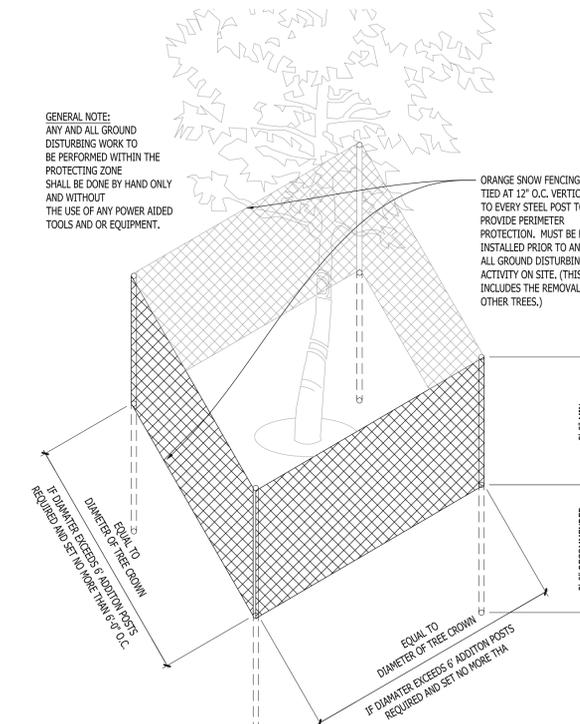
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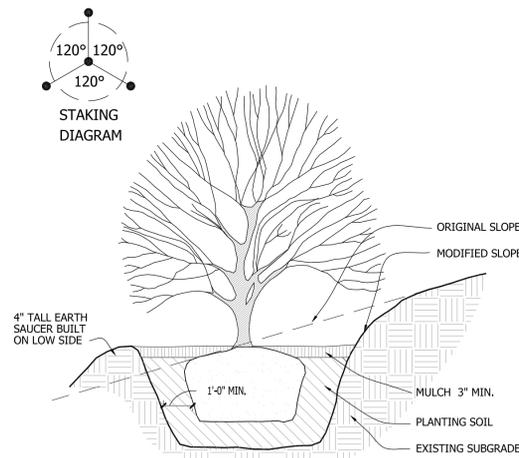
2 DECIDUOUS TREE STAKING PARKING ISLAND/RESTRICTED AREAS SCALE: NONE



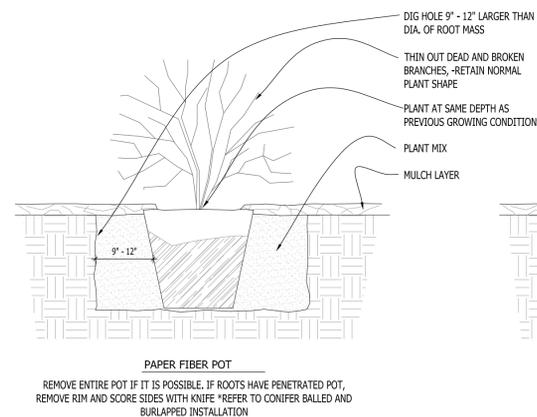
3 CONIFEROUS TREE PLANTING DETAIL SCALE: NONE



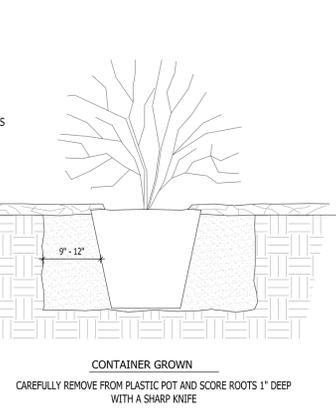
4 EXISTING TREE PROTECTION DETAIL SCALE: NONE



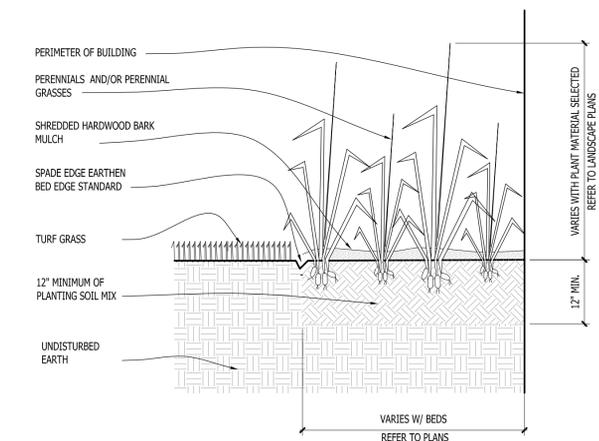
5 SLOPE PLANTING DETAIL SCALE: NONE



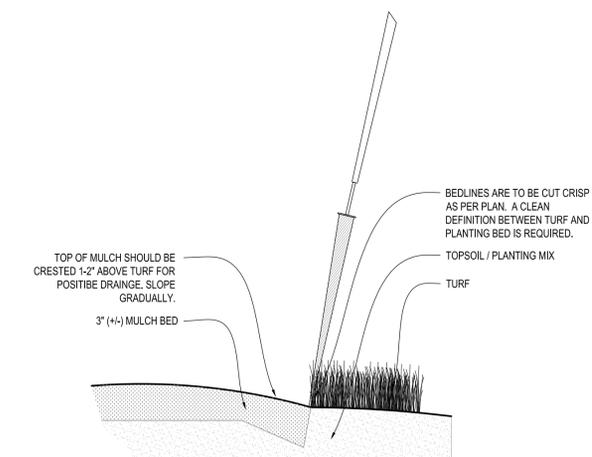
6 DECIDUOUS SHRUB PLANTING DETAIL SCALE: NONE



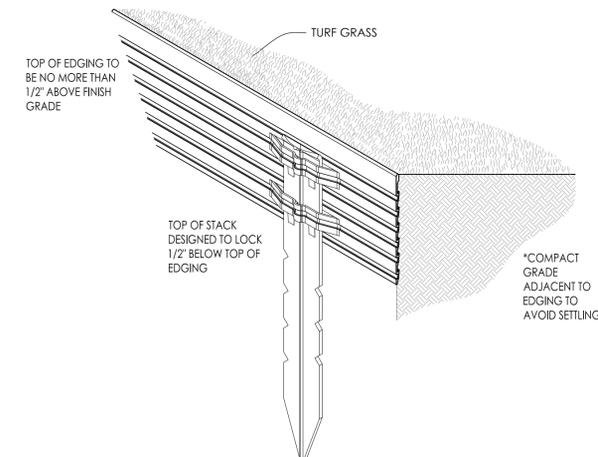
7 CONIFEROUS SHRUB PLANTING DETAIL SCALE: NONE



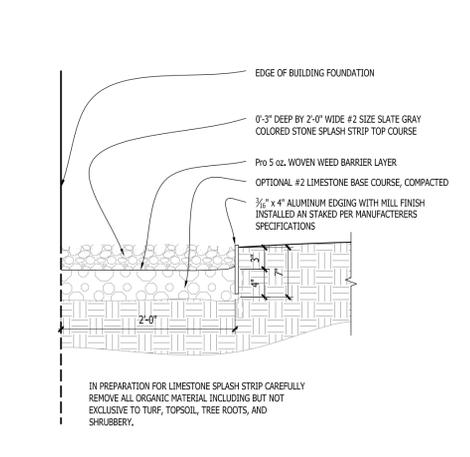
8 PERENNIAL BED PLANTING DETAIL SCALE: NONE



9 SPADE EDGE PLANT BED EDGE DETAIL SCALE: NONE



10 METAL LANDSCAPE EDGING DETAIL SCALE: 1/2\"/>



11 COMPACTED GRAVEL SPLASH STRIP SCALE: 1\"/>

Project:
LAKE COUNTRY LUTHERAN - ADDITION
401 Campus Drive
Hartland, WI 53029

Issuance and Revisions:

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Sheet Title:
PROPOSED LANDSCAPE PLAN, PLANTING DETAILS

Date of Drawing: 03/28/25
Scale: As Noted
Drawn By: MCD
Job Number: L25-018
Sheet Number:

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DIGGERS HOT LINE

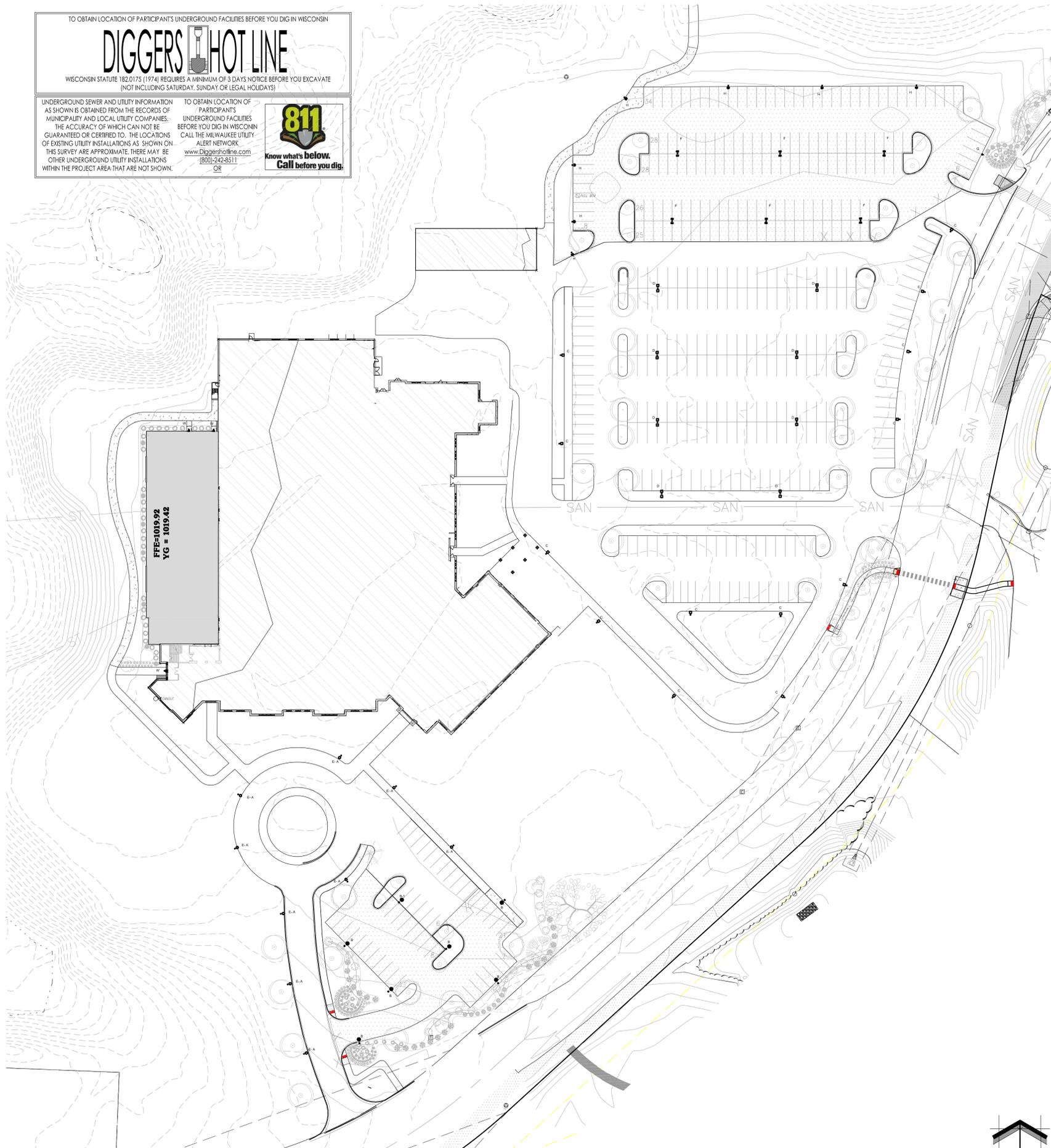
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TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN CALL THE MILWAUKEE UTILITY ALERT NETWORK www.DiggersHotline.com (800)-242-8511 OR



Know what's below. Call before you dig.



1 PROPOSED OVERALL PROJECT SCOPE SITE LIGHTING PLAN

SCALE: 1" = 50'-0"



LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	E-A	9	FIXTURE E-A - EXISTING LOCATION & FOOTING - SHOWN FOR REFERENCE ONLY - ASSUMPTIONS WERE MADE						
●	B	7	EMM-E04 -LED-E1-T4	EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE (4) LIGHTBARS WITH ACCULID OPTICS - TYPE 4	(84) 4000K CCT, 70 CRI LEDs ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET	EMM-E04-LED-E1-T4.ies	Absolute	1.00	97.2
□	C	13	FIXTURE E-C - EXISTING LOCATION & FOOTING - SHOWN FOR REFERENCE ONLY - ASSUMPTIONS WERE MADE						
□	D	8	FIXTURE E-D - EXISTING LOCATION & FOOTING - SHOWN FOR REFERENCE ONLY - ASSUMPTIONS WERE MADE						
□	F	6	EACL01_F4AF750 WITH ELS- EAC-ABL-BLCK	EACL AREA LIGHT	LEDs	EACL01_F4AF750 ELS-EAC-ABL-BLCK.ies	Absolute	1.00	244
□	G	1	EACL01_D3AW740 WITH ELS- EAC-ABL-BLCK	EACL AREA LIGHT	LEDs	EACL01_D3AW740 ELS-EAC-ABL-BLCK.ies	Absolute	1.00	73
□	H	7	EACL01_H4AF750	EACL AREA LIGHT	LEDs	EACL01_H4AF750.ies	Absolute	1.00	153
△	w	3	EWLS02_70AF740 -120-277V	EWLS02 WALL PACK	LEDs	EWLS02_70AF740 -120-277V.ies	Absolute	1.00	52

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.8 fc	33.1 fc	0.0 fc	N / A	N / A

LUMINAIRE NOTES

1. FIXTURE "E-A" (9) IS A EXISTING POLE LOCATION WITH EXISTING FOOTING - SHOWN FOR REFERENCE ONLY - ASSUMPTIONS WERE MADE.
2. FIXTURE "B" (7) IS A NEW POLE LOCATION w/ NEW FOOTING - RELOCATE EXISTING SHEPARD'S HOOK FIXTURE (SINGLE HEAD AND TENON). EXISTING POLE IS TO BE INSTALLED ON A NEW 2'-6" (FIELD VERIFY TO MATCH EXISTING) REINFORCED POURED CONCRETE FOUNDATION.
3. FIXTURE "C" (13) IS A NEW POLE LOCATION w/ NEW FOOTING - NEW SHEPARD'S HOOK FIXTURE (SINGLE HEAD AND TENON TO MATCH EXISTING). NEW POLE IS TO BE INSTALLED ON A NEW 2'-6" (FIELD VERIFY TO MATCH EXISTING) REINFORCED POURED CONCRETE FOUNDATION.
4. FIXTURE "D" (8) IS A EXISTING POLE LOCATION WITH EXISTING FOOTING - SHOWN FOR REFERENCE ONLY - ASSUMPTIONS WERE MADE.
5. FIXTURE "F" (6) IS A EXISTING POLE LOCATION WITH EXISTING FOOTING - SHOWN FOR REFERENCE ONLY - ASSUMPTIONS WERE MADE.
6. FIXTURE "G" (1) IS A NEW POLE LOCATION w/ NEW FOOTING - NEW FIXTURE (TWIN HEAD AND TENONS TO MATCH EXISTING). NEW POLE IS TO BE INSTALLED ON A NEW 2'-6" (FIELD VERIFY TO MATCH EXISTING) REINFORCED POURED CONCRETE FOUNDATION.
7. FIXTURE "H" (7) IS A NEW POLE LOCATION w/ NEW FOOTING - NEW FIXTURE (SINGLE HEAD AND TENON TO MATCH EXISTING). NEW POLE IS TO BE INSTALLED ON A NEW 2'-6" (FIELD VERIFY TO MATCH EXISTING) REINFORCED POURED CONCRETE FOUNDATION.
8. ALL PROPOSED FIXTURE HEADS ARE TO BE DARK-SKY COMPLIANT AND HAVE HARDWARE WITH IESNA FULL CUTOFF HOUSE SIDE SHIELDING WHERE REQUIRED. NEW PROPOSED POLE MOUNTED FIXTURES (HEADS AND TENONS) FINISH IS TO MATCH EXISTING w/ OPTIONAL PHOTOCELL CONTROL.
9. ALL NEW CONCRETE LIGHT POLE BASES ARE TO HAVE ALL EXPOSED FORM MARKS REMOVED, GROUND FLUSH AND THE SURFACE IS TO BE PROPERLY PREPARED TO RECEIVE A HAND TROWELED, MASONRY SKIM COAT OF APPROPRIATE THICKNESS TO ACHIEVE A DURABLE SURFACE AND LONG LASTING AESTHETIC.
10. ALL NEW PROPOSED AREA LIGHT POLES SHALL BE LOCATED 3'-0" FROM BACK OF CURB TO THE EDGE OR FACE OF THE REINFORCED LIGHT POLE BASE, UNLESS NOTED OTHERWISE.
11. INSTALLATION CONTRACTOR TO REFER TO ELECTRICAL PLANS FOR CONDUIT ROUTING OF LIGHT POLES AND SIGNAGE LIGHTING CONTROL AND WIRING.
12. CONTRACTOR TO REFER TO REINFORCED LIGHT POLE BASE SECTION AND DETAIL FOR FURTHER INFORMATION.
13. PROPOSED POLE MOUNTED FIXTURES (HEADS AND TENONS) ARE TO HAVE A SILVER FINISH w/ OPTIONAL PHOTOCELL CONTROL.
14. ALL EXTERIOR FIXTURES, BOTH BUILDING MOUNTED AND POLE FIXTURES SHALL BE DESIGNED AND INSTALLED SUCH THAT THE LIGHT EMITTED FROM THE LUMINAIRE AT AN ANGLE OF 90 DEGREES FROM VERTICAL (OR MORE) AND NO LIGHT SHALL TRESPASS ACROSS PARCEL BOUNDARIES INTO ADJACENT LOTS, BUILDINGS OR STREETS IN EXCESS OF 1.0 FOOT CANDELA OR GREATER.
15. ALL BUILDING MOUNTED LIGHT FIXTURES ARE TO BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.
16. FOR PURPOSES OF CALCULATING THE SITE POLE LIGHTING AND PHOTOMETRIC OUTPUT LUMINAIRES WERE PLACED AT 22'-0" ABOVE FINISHED FLOOR ELEVATION AND ALL BUILDING MOUNTED FLOOD LIGHTS COORDINATED WITH THE ARCHITECTURAL ELEVATIONS AND PLACED AT HEIGHTS SPECIFIED ON THE BUILDING ELEVATIONS.

THIS LIGHTING PLAN REPRESENTS ILLUMINATION LEVELS ARE CALCULATED VALUES INCLUDE DIRECT AND INTER-REFLECTED COMPONENT AND ILLUMINATION LEVELS. CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY (IES) APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY DUE TO CHANGES IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS/LED'S AND OTHER MAY VARY DUE TO CHANGES IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS/LED'S AND OTHER VARIABLE FIELD CONDITIONS. CALCULATIONS DO NOT INCLUDE OBSTRUCTIONS SUCH AS BUILDINGS CURBS, LANDSCAPING, OR ANY OTHER ARCHITECTURAL ELEMENTS UNLESS NOTED.

PHOTOMETRIC PLAN GENERAL NOTES

1. BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POLE PLACEMENTS AND LUMINAIRE ORIENTATION. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO RELEVANT FIELD CONDITIONS.
2. THE DEPICTED ILLUMINATION RESULTS ARE BASED UPON ILLUMINATION MEASUREMENTS AS CALCULATED BY AN INDEPENDENT LABORATORY. LUMINAIRE CHARACTERISTICAL DATA WAS MEASURED UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH APPROVED ILLUMINATION ENGINEERING SOCIETY METHODS. ACTUAL ON-SITE PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY FROM LABORATORY TEST RESULTS DUE TO VARIATIONS IN: ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.
3. IF EXISTING LUMINAIRES ARE INCLUDED IN THIS REPORT, THEIR ILLUMINATION CHARACTERISTICS ARE BASED UPON A COMBINATION OF CUSTOMER'S PROVIDED SPECIFICATIONS & OUR BEST ESTIMATION.
4. ALL EXISTING AND NEW CONCRETE LIGHT POLE BASES ARE TO HAVE ALL FORM MARKS REMOVED, GROUND FLUSH AND THE SURFACE IS TO BE PROPERLY PREPARED TO RECEIVE A HAND TROWELED, MASONRY SKIM COAT OF APPROPRIATE THICKNESS TO ACHIEVE A DURABLE SURFACE AND LONG LASTING AESTHETIC.

EXISTING CONDITIONS GENERAL NOTES

1. INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THESE ARCHITECTURAL DRAWINGS REPRESENTS TO THE BEST OF OUR KNOWLEDGE THE ACTUAL EXISTING FIELD CONDITIONS. INSITE LANDSCAPE DESIGN, INC. MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS IMPERATIVE TO THEIR NEW WORK. REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT FOR REVIEW. ANY WORK PERFORMED PRIOR TO RESOLUTION OF DISCREPANCIES BY THE LANDSCAPE ARCHITECT IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST TO THE CONTRACT.
2. VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES I.E. WATER, SEWER, ELECTRICAL, TELECOMMUNICATION AND ACCESS PANELS FOR ALL UTILITIES AND ALL ASSOCIATED EQUIPMENT FOR ACCESSIBILITY OF THOSE ITEMS.
3. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ALIGNMENT OF WALLS. BRING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT'S ATTENTION PRIOR TO FABRICATION / CONSTRUCTION BEGINS.

INSITE

LANDSCAPE DESIGN

Landscape Consulting & Master Planning Design Services

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Wauwatosa, WI 53226
Tel (414) 476-1204
www.insitedesigninc.com
mdavis@insitedesigninc.com

Project:

LAKE COUNTRY LUTHERAN - ADDITION

401 Campus Drive
Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
03/28/25		Plan Commission Submittal

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Sheet Title:

PROPOSED OVERALL PROJECT SCOPE SITE LIGHTING PLAN, GENERAL NOTES, AND LIGHT FIXTURE TABLE

Date of Drawing: 03/28/25

Scale: 1" = 20'-0"

Drawn By: MCD

Job Number: L25-018

Sheet Number:

PHO1.1

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L25-018 - LAKE COUNTRY LUTHERAN - ADDITION - 03/28/2025

Project:

**LAKE COUNTRY
LUTHERAN
-ADDITION**

401 Campus Drive
Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
03/28/25		Plan Commission Submittal

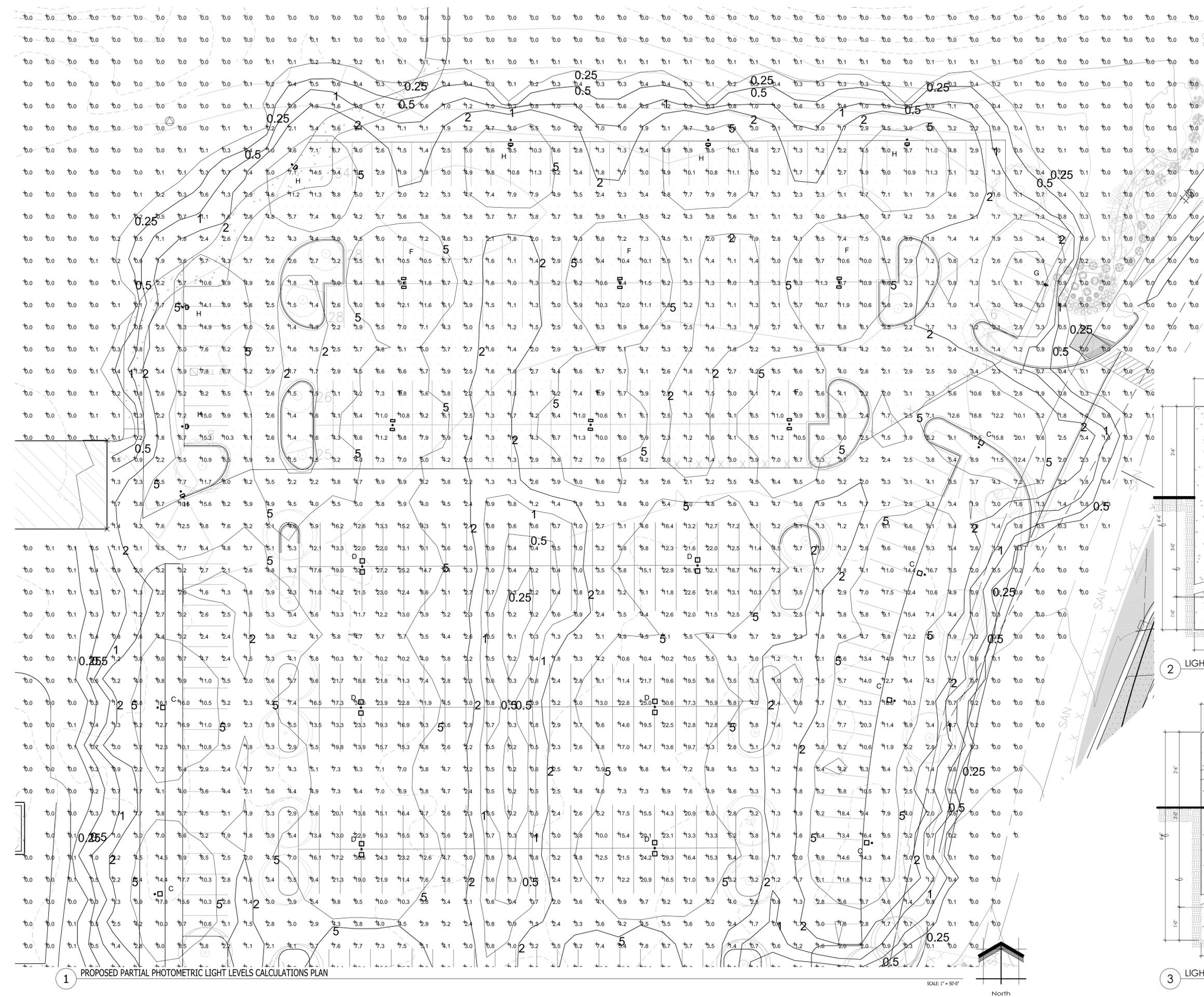
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Sheet Title:

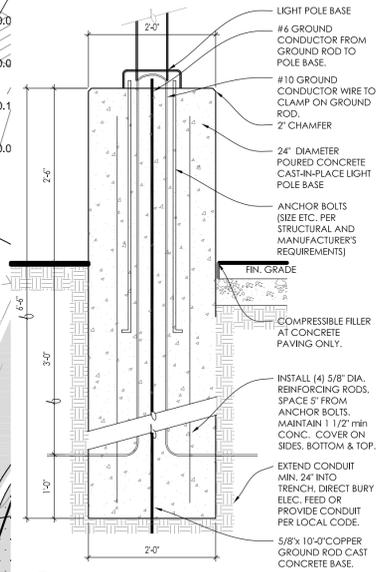
PROPOSED PARTIAL PHOTOMETRIC LIGHT LEVEL CALCULATIONS PLAN.

Date of Drawing: 03/28/25
Scale: 1" = 20'-0"
Drawn By: MCD
Job Number: L25-018
Sheet Number:

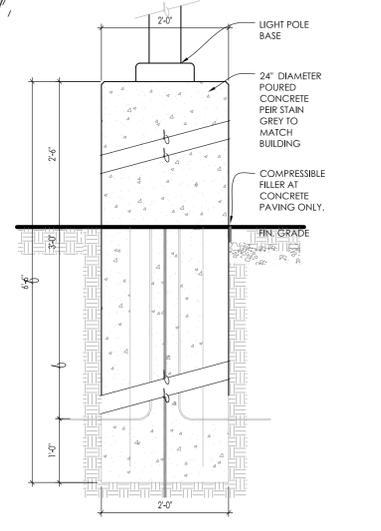
PHO1.2



1 PROPOSED PARTIAL PHOTOMETRIC LIGHT LEVELS CALCULATIONS PLAN
SCALE: 1" = 50'-0"



2 LIGHT POLE BASE - SECTION
SCALE: 3/4" = 1'-0"



3 LIGHT POLE BASE - ELEVATION
SCALE: 3/4" = 1'-0"

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Project:

**LAKE COUNTRY
LUTHERAN
-ADDITION**

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Sheet Title:

PROPOSED PARTIAL PHOTOMETRIC
LIGHT LEVEL CALCULATIONS PLAN.

Date of Drawing: 03/28/25

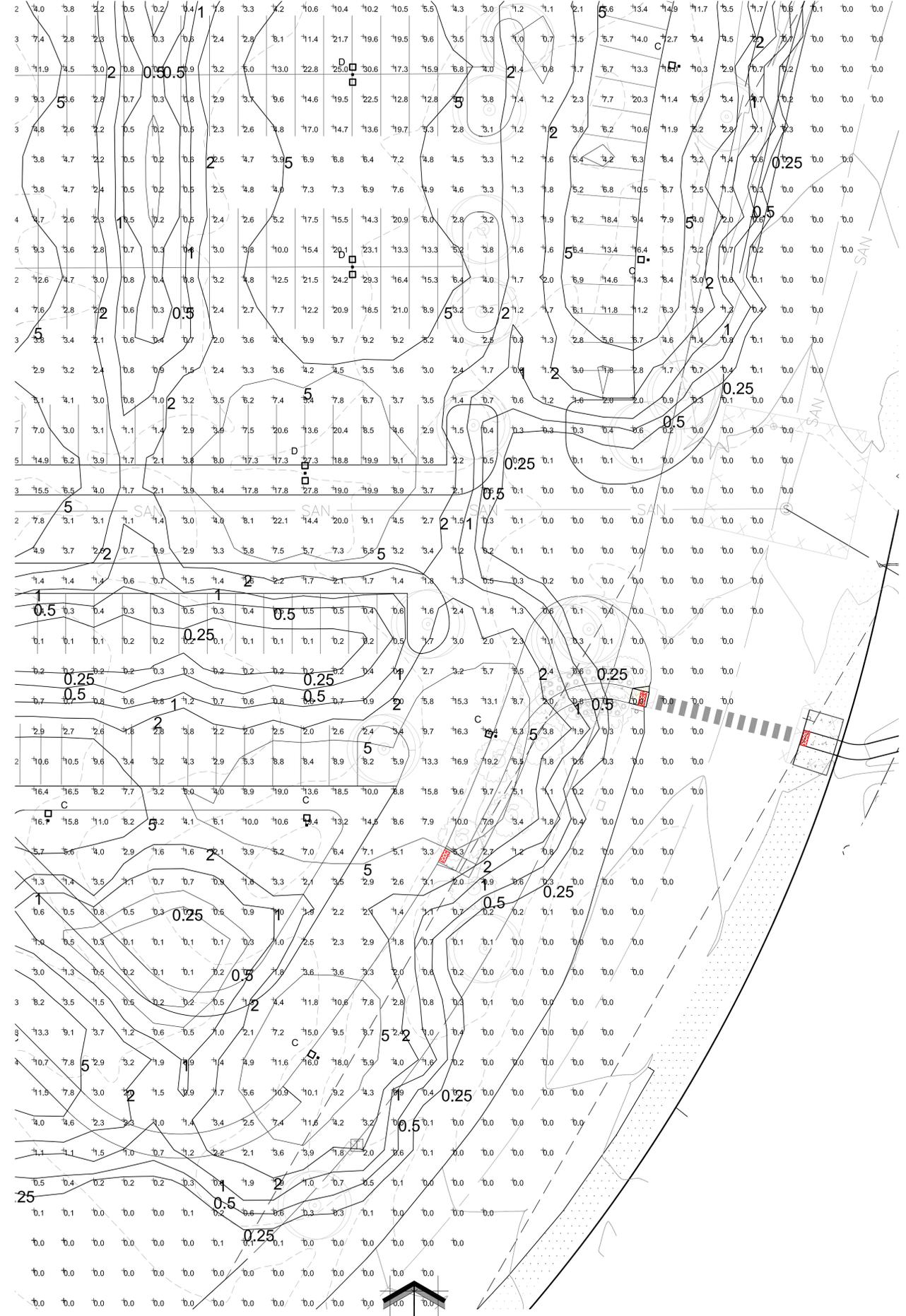
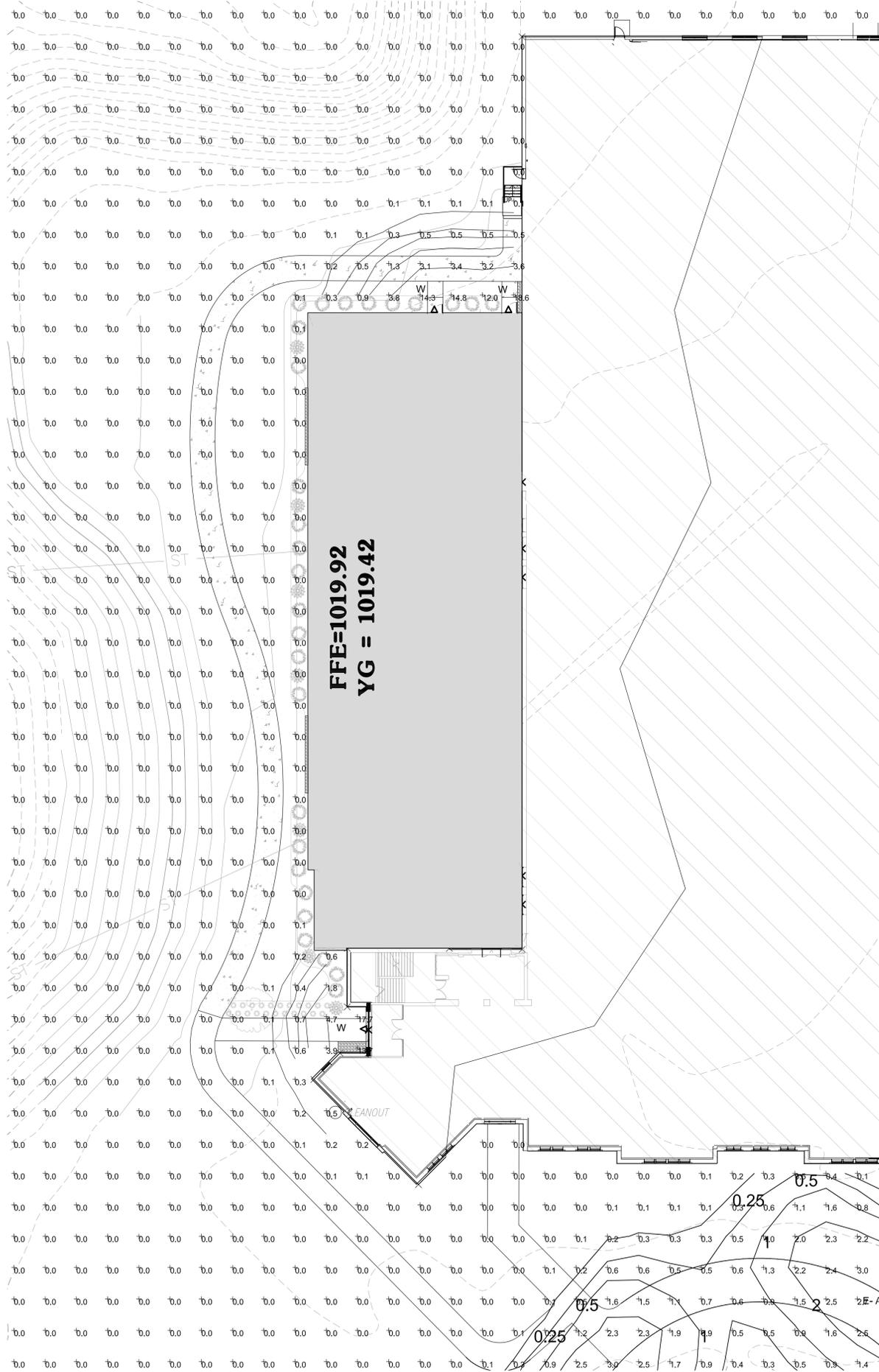
Scale: 1" = 20'-0"

Drawn By: MCD

Job Number: L25-018

Sheet Number:

PHO1.3



SCALE: 1" = 20'-0"

North

1 PROPOSED PARTIAL PHOTOMETRIC LIGHT LEVELS CALCULATIONS PLAN

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Project:

**LAKE COUNTRY
 LUTHERAN
 -ADDITION**

401 Campus Drive
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Issuance and Revisions:

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Sheet Title:

PROPOSED PARTIAL PHOTOMETRIC LIGHT LEVEL CALCULATIONS PLAN.

Date of Drawing: 03/28/25

Scale: 1" = 20'-0"

Drawn By: MCD

Job Number: L25-018

Sheet Number:

PHO1.4



1 PROPOSED PARTIAL PHOTOMETRIC LIGHT LEVEL CALCULATIONS PLAN

SCALE: 1" = 20'-0"



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EVOLVE

CUSTOMER NAME _____
PROJECT NAME _____
DATE _____ TYPE _____
CATALOG NUMBER _____

EWLS L Series LED Wall Pack

The Evolve® LED L Series Wall Pack (EWLS), The Evolve LED L-Series Wall Pack, EWLS, is a designed replacement for 50W to 250W HID, while offering significant energy savings in a long-life LED wall pack. Two-screw housing design enables a fast and simplified installation. The low-watt Egress package is designed to meet recommended illuminance requirements for egress applications such as side and rear exit doors in commercial buildings. Available with Emergency Battery Backup option.

Construction

Housing: Aluminum die cast enclosure. Integral heat sink for maximum heat transfer.
Lens: Impact resistant tempered glass
Corrosion resistant, polyester powder paint, minimum 2.0 mil thickness
Paint: Color: Black, Dark Bronze, Gray & White (RAL & custom colors available)
Optional - Coastal Finish
Weight: 8.6 lbs, 4.1 kg

Optical System

Lumens: 1700 to 7000
Distribution: Asymmetric Forward
Efficacy: 117-148 LPW
CCT: 2700, 3000K, 4000K, 5000K
CRI: >70

Electrical

Input Voltage: 120-277V & 347V
Input Frequency: 50/60Hz
Power Factor: > 90% at rated watts
Total Harmonic Distortion: < 20% at rated watts

Surge Protection

Surge Protection: 10kV/15kA (Standard)
3kV/15kA (EMBB)

Emergency Battery Backup

Provides reliable emergency operations when there is a loss to normal power, supported by Independent Secondary Battery.

• Hold-Up Time: 90 minutes @ 1400 lumens.
• Meets egress light level and uniformity requirements.
• Not available in 347V.
• Operating Temperature (for EMBB models) 0° to 40°C

Lumen Maintenance

Projected Lx per IES TM-21-11 at 25°C

LUMEN CODES	DISTRIBUTION	25000 HR	50000 HR	60000 HR
17, 25 & 40	AF	L99	L99	L99
70	AF	L94	L97	L85

Luminaire Ambient Temperature Factor

AMBIENT TEMP (°C)	INITIAL FLUX FACTOR	AMBIENT TEMP (°C)	INITIAL FLUX FACTOR
10	1.02	30	0.99
20	1.01	40	0.98
25	1.00	50	0.97

Ratings

Operating Temperature: -40°C to 50°C
Vibration: 3G per ANSI C136.3-2010
LM-79: Testing in accordance with IESNA Standards

Controls

Dimming: Standard - 0-10V
Sensors: Photo Electric Sensors (PE) available
Motion Sensor

Warranty

5 Year (Standard)

Current LED.com

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EVOLVE

CUSTOMER NAME _____
PROJECT NAME _____
DATE _____ TYPE _____
CATALOG NUMBER _____

EWLS L Series LED Wall Pack

Ordering Information

EWLS02 0 40 AF 70 40 N 3 CB DKBZ

PROD. ID	GEN	VOLTAGE	OPTIC CODE	DISTRIBUTION	DR. OMB	OPT	FINISH	FE FUNCTION	HOUSING	COLOR	OPTIONS
E1-Brow	02	0 + 120-277V	0 + 1700 lm	AF - Asymmetric Forward	7-70	27 + 2700K	B - No Egress Emergency Lens	1 + None	08 - Copal Box Mount	BLACK - Black Box Mount	EMBB - Emergency Battery Backup
W1-Walrus	1	1 + 120V	15 + 2500 lm	1 - Forward	35 + 3000K	30 + 3000K	1 - External Egress Lens	3 + Buttons PE	10 - Flush Mount	EMBB - Dark Bronze	1 - Motion Sensor (Standard)
L1-L Series	2	2 + 120V	45 + 4000 lm	1 - Forward	40 + 4000K	40 + 4000K	1 - External Egress Lens	3 + Buttons PE	10 - Flush Mount	GRAY - Gray	1 - Motion Sensor (Standard)
		4 + 277V	70 + 7000 lm	1 - Forward	60 + 5000K	60 + 5000K	1 - External Egress Lens	3 + Buttons PE	10 - Flush Mount	GRAY - Gray	1 - Motion Sensor (Standard)
		8 + 10-240V	140 + 14000 lm	1 - Forward	80 + 5000K	80 + 5000K	1 - External Egress Lens	3 + Buttons PE	10 - Flush Mount	GRAY - Gray	1 - Motion Sensor (Standard)

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EVOLVE

CUSTOMER NAME _____
PROJECT NAME _____
DATE _____ TYPE _____
CATALOG NUMBER _____

EWLS L Series LED Wall Pack

70AF ASYMMETRIC FORWARD

7000 LUMEN
EWLS02_70AF750..._20-277Vies

Vertical plane through horizontal angle of Max. Cd at 0°
Horizontal plane through vertical angle of Max. Cd at 27°

Mounting Height at 12'
Iscal footcandle at Grade
Light Level: 0.5k, 1k, 2k

EMBB Mode ASYMMETRIC FORWARD

1400 LUMEN
EWLS02_EMBB...ies

Vertical plane through horizontal angle of Max. Cd at 29°
Horizontal plane through vertical angle of Max. Cd at 27°

Mounting Height at 12'
Iscal footcandle at Grade
Light Level: 0.5k, 1k, 2k

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GE EVOLVE EWLS SERIES WALL PACK LUMINARIE

Project: _____ Catalog #: _____ Type: _____
Prepared by: _____ Notes: _____ Date: _____

Invue Epic

Decorative Pendant Luminaire

Product Certifications & Features

PHYSICAL CHARACTERISTICS

- Cast aluminum top housing attaches to cast aluminum mounting arm with four fasteners
- One-piece silicone gasket between casting and power wires seals out moisture and contaminants
- Continuous silicone gaskets are used to seal the lens and mechanical structures
- Tall fixture configurations feature a field serviceable center section which can fit to allow easy access to surge module, PE, and EMBB
- Heavy gauge precision spun aluminum shades offer superior surface finish and consistency in form
- Optional tension-mount bishop arm for post top retrofit
- Full selection of compatible mounting arms available in accessories section
- Housing finished in 5-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- 7 standard color options, plus a wide range of custom colors (Contact your Cooper Lighting representative for custom color options)
- Approximate Weight: 26 lbs (full), 21 lbs (short)
- Fixture EPA: 0.70 (full), 0.50 (short)

CONTROLS

- Optional ANSI C136.10 7-pin receptacle for photocells or Networked Lighting Control (NLC) modules
- Optional Field Adjustable Dimming Control Module (FADC)
- Enables manual adjustment of power consumption and lumen output. Factory preset to highest output level for option selected
- Allows a single fixture SKU to cover multiple field applications with manual adjustment at installation
- Optional 4-pin Zhaga Block 18 receptacle for integration of optional sensors with DALI- and DALI-enabled drivers

COMPLIANCE

- UL Listed and approved for 3000K CCT and warmer
- UL Wet Location rated

WARRANTY

- Five-year limited warranty. Consult website for details: www.cooperlighting.com/legal

COOPER Lighting Solutions

PS1634624 page 1
January 10, 2023 (1.0)

Invue Epic

Ordering Information

Simple Order Number: EMM2-HTN-SAB-740-18-SWQ-TB-1-CL-GM

Item	Quantity	Part Number	Notes
EMMB	1	EMMB-18	Emergency Battery Backup
HTN	1	HTN-18	Networked Lighting Control (NLC) Module
SAB	1	SAB-740-18	740-Watt Single Pole Mount Arm
SWQ	1	SWQ-18	18-Inch Short Housing
TB	1	TB-18	18-Inch Tall Housing
CL	1	CL-18	18-Inch Clear Lens
GM	1	GM-18	18-Inch Gray Mount

COOPER Lighting Solutions

PS1634624 page 2
January 10, 2023 (1.0)

Invue Epic

Configurations

ROUND TRIM

Tall Housing, Bell Shade, Round Trim
Tall Housing, Flare Shade, Round Trim
Tall Housing, Cone Shade, Round Trim

Short Housing, Bell Shade, Round Trim
Short Housing, Flare Shade, Round Trim
Short Housing, Cone Shade, Round Trim

FLARE TRIM

Tall Housing, Bell Shade, Flare Trim
Tall Housing, Flare Shade, Flare Trim
Tall Housing, Cone Shade, Flare Trim

Short Housing, Bell Shade, Flare Trim
Short Housing, Flare Shade, Flare Trim
Short Housing, Cone Shade, Flare Trim

COOPER Lighting Solutions

PS1634624 page 2
January 10, 2023 (1.0)

Invue Epic

Mounting Details

POST TOP TENON MOUNT BISHOP ARM

Slipfits over 3" OD post top tenon

BISHOP WALL MOUNT ARM

Mounts to wall with four stainless steel lag bolts (provided by other).

BISHOP SINGLE POLE MOUNT ARM

Slipfits over 4" round straight pole, or 4" O.D. by 6" tall round tenon.

BISHOP TWIN POLE MOUNT ARM

Slipfits over 4" round straight pole, or 4" O.D. by 6" tall round tenon.

COOPER Lighting Solutions

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January 10, 2023 (1.0)

COOPER LIGHTING INVUE EPIC AREA LIGHT

PS1634624 page 1
January 10, 2023 (1.0)

COOPER LIGHTING INVUE EPIC AREA LIGHT

PS1634624 page 2
January 10, 2023 (1.0)

COOPER LIGHTING INVUE EPIC AREA LIGHT

PS1634624 page 2
January 10, 2023 (1.0)

COOPER LIGHTING INVUE EPIC AREA LIGHT

PS1634624 page 5
January 10, 2023 (1.0)

INSITE LANDSCAPE DESIGN

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Tel (414) 476-1204
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mdavis@insitedesigninc.com

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Sheet Title:

PROPOSED LIGHT FIXTURES

Date of Drawing: 03/28/25

Scale: NONE

Drawn By: MCD

Job Number: L25-018

Sheet Number:

PHO 1.5

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EVOLVE
EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____
PROJECT NAME _____ TYPE _____
DATE _____ CATALOG NUMBER _____

Construction
Housing: Die-cast aluminum housing with integral heat sink for maximum heat transfer.
Paint: Standard = Black, Dark Bronze Gray, White (RAL & custom colors available).
Weight: 15 lbs (6.8 kg) Max depending on configuration.

Optical System
Lumens: 2,000 - 20,400
Distribution: Asymmetric Forward Type IV, Asymmetric Wide Type III, Asymmetric Narrow/Auto Type II.
Efficacy: 123 - 143 LPW
CCT: 3000K, 4000K, 5000K
CRI: >70

Electrical
Input Voltage: 120-277V & 347-480V
Input Frequency: 50/60Hz
Power Factor: > 90% at rated watts
Total Harmonic Distortion: < 20% at rated watts

Surge Protection*
Typical (120 STRIKES) ENHANCED (40 STRIKES)
6KV/3KA 10KV/5KA

Warranty
5 Year (Standard)

Lumen Maintenance
Projected Lux per IES TM-21-11 at 25°C
LUMEN CODES: A2, A3, A4, B2, B3, B4, C2, C3, C4, D3, D4, E2, E3, E4, F2, F3, F4, H2, H3, H4, L97, L98, L99

Luminaire Ambient Temperature Factor
AMBIENT TEMP (°C) INITIAL FLUX FACTOR AMBIENT TEMP (°C) INITIAL FLUX FACTOR
10 1.02 30 0.99
20 1.01 40 0.98
25 1.00 50 0.97

Ratings
Operating Temperature: -40°C to 50°C
Vibration: 3G vibration per ANSI C37.130-1B
LM-79: Testing in accordance with IESNA Standards

Controls
Dimming: Standard - 0-10V, Optional - DALI (Option U)
Sensors: Photo-Electric Sensors (PE) available, Light/Sound and Dantone Compatible

LED.com
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EVOLVE
EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____
PROJECT NAME _____ TYPE _____
DATE _____ CATALOG NUMBER _____

Ordering Information
EACL 01 0 F4 AF 7 50 N D D1 GRAY

PROJ. ID	GEN	VOLTAGE	OPTIC CODE	DISTRIBUTION	CE (MHA)	CCT	DIMMING*	CONTROLS	MOUNTING AREA	COLOR	OPTIONS											
E-1-Escape	01	0-120/277V	AF-3000K	AF-Asymmetric Forward	7-7.5	30 ± 5000K	N-1-External Dimming (0-10V)	N-1-External Dimming (0-10V)	C1-1-External Dimming (0-10V) or C2-2-External Dimming (0-10V) or C3-3-External Dimming (0-10V) or C4-4-External Dimming (0-10V)	GRAY	F-4-Forward Type IV											
A2	A3	A4	B2	B3	B4	C2	C3	C4	D3	D4	E2	E3	E4	F2	F3	F4	H2	H3	H4	L97	L98	L99

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EVOLVE
EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____
PROJECT NAME _____ TYPE _____
DATE _____ CATALOG NUMBER _____

OPTICAL CODE	DEPT CODE	CLASSIFICATION	TYPICAL LUMENS	TYPICAL SYSTEM WATTAGE	BIDDING PARTS	
			3000K	4000K 5000K	3000K	4000K 5000K
A2			2900	2900	21	21
B4			4800	4800	35	35
C4			7300	7300	55	55
D4			9900	9900	73	73
E4			12200	12200	89	89
F4			14700	14700	102	102
H4			18000	18000	133	133
L97			2900	3000	21	23
L98			4800	5000	35	38
L99			7300	7500	55	58
A2	AF	TYPE IV	9900	10200	73	75
B3			11400	12700	86	92
B2			14800	15500	102	107
C2			18100	18400	133	136
D2			21000	20200	151	143
E2			24000	23000	168	159
F2			27000	25000	185	176
H2			33000	31000	222	213

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EVOLVE
EACL® Series
LED Area Light/Compact Low Wattage

CUSTOMER NAME _____
PROJECT NAME _____ TYPE _____
DATE _____ CATALOG NUMBER _____

PE Accessories (To Be Order Separately)

SAP NUMBER	PART NUMBER	DESCRIPTION
9003962	WANS-277	ANSI E84-400V Dimming PE Damper Bracket 200-300V
9003959	WANS-480	ANSI E84-480V Dimming PE Damper Bracket 200-300V
9003957	PE-M-LED-7	ANSI E84-480V Dimming PE LED-7
9003958	PE-S-LED-7	ANSI E84-480V Dimming PE LED-7
9003958	PE-480-LED-7	ANSI E84-480V Dimming PE LED-7

Back Light Shield

SHIELD ORIENTATION	CUTOFF DISTANCE	SHIELD QUANTITY
Back	Long	1/2-BACK-REBACK

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1 GE EVOLVE EACL SERIES AREA LUMINARIES

2 GE EVOLVE EACL SERIES LUMINARIES SHIELDING

EVOLVE
EACL Series Luminaires
Shielding Specification & Ordering Guide

The next evolution of the Evolve® LED Area Light delivers even better trespass control. Current's exclusive reflective optical ring design produces superior vertical illuminance and efficiently directs the light without wasteful and unwelcome light spill into neighboring properties. Due to the extensive variation of parking lot configurations coupled with tightening ordinances.

Current now offers a full array of shielding to accommodate challenging sites.

The shielding options available for the Evolve® Area Light focus on the following applications:

- Left & Right Cutoff
- Front Cutoff
- Backlight Control & B-U-G Improvement

Within each of the shielding families, there are multiple shielding cutoff levels that are categorized in mounting height (MH) increments. Current accommodates cutoff distance from the pole from 1MH to 2.5 MH in 0.5 MH increments. The shields that are listed are for the most common applications. Please contact the manufacturer if your need is not listed.

All shields can be installed easily in the field. The next evolution of the Evolve® LED Area Light and shielding options will help you meet any parking lot challenge.

LED.com
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EVOLVE
SSSE Series Poles
Square | Straight | Steel

Project Name _____
Date _____ Type _____
Notes _____

APPLICATIONS
Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location.

CONSTRUCTION
Shaft: One-piece straight steel with square cross section. Flat sides and minimum 0.2" radius on all corners. Minimum yield of 46,000 psi (ASTM A500, Grade B). Longitudinal weld seam to appear flush with shaft side wall. Steel base plate with axial bolt circle slots welded to pole shaft having minimum yield of 36,000 psi (ASTM A36).
Base Cover: Two-piece square aluminum base cover included standard.
Pole Cap: Pole shaft supplied with removable cover when applicable. Tenon and post-top configurations also available.
Hand Hole: Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening). Mounting provisions for grounding lug located behind gasketed cover.
Anchor Bolts: Four galvanized anchor bolts provided per pole with minimum yield of 5,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling.
Anchor Bolt Part Numbers: 3/4 x 30 x 3 - TAB-30-M38, 1 x 36 x 4 - TAB-36-M38

FINISH
Durable thermoseal polyester powder coat paint finish with minimum 3.0 mil thickness.
Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method.
Decorative finish coat available in multiple standard colors. Custom colors available. RAL number preferable.

10 DAY - EVOLVE EXPRESS SHIP PROGRAM
Ships in 10 days
Limit of 15 poles

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EVOLVE
SSSE Series Poles
Square | Straight | Steel

Project Name _____
Date _____ Type _____
Notes _____

Ordering Information
Example: SSSE25-40A-2-E2-DKBZ-UL

SERIES	HEIGHT	SHAFT	THICKNESS	MOUNTING	POLE DRILLING	FINISH	OPTIONS
SSSE	10-12	40-4" Square	0.125"	1 - Single arm mount	E2 - Evolve Square Pole	DKBZ - Dark Bronze	GFF - 20 Amp GFCI Receptacle and Cover
	12-12	40-4" Square	0.125"	2 - Two fixtures at 90°	ULDP01 - 3/8" IDW range 1.69 - 2.24	GRAY - Gray	EXH - Extra Handhole
	14-14	40-4" Square	0.125"	3 - Three fixtures at 90°	ULDP02 - 1/2" IDW range 1.69 - 2.24		CMF - 0.5" Coupling
	16-16	40-4" Square	0.125"	4 - Four fixtures at 90°	ULDP03 - 5/8" IDW range 2.25 - 2.99		MPV - Mid Pole Luminaire Bracket
	18-18	40-4" Square	0.125"	5 - Five fixtures at 90°	ULDP04 - 1" IDW range 3.00 - 3.75		VM1 - 1st mode vibration damper
	20-20	40-4" Square	0.125"	6 - Six fixtures at 90°	ULDP05 - 1 1/8" IDW range 3.76 - 4.49		VM2 - 2nd mode vibration damper
	25-25	40-4" Square	0.125"	7 - Seven fixtures at 90°	ULDP06 - 1 1/4" IDW range 4.50 - 5.49		LAB - Less Anchor
	25-25	40-4" Square	0.125"	8 - Eight fixtures at 90°	ULDP07 - 1 1/2" IDW range 5.50 - 6.00		UL - UL Certified
	30-30	40-4" Square	0.125"	9 - Nine fixtures at 90°	ULDP08 - 1 3/8" IDW range 5.50 - 6.00		
	35-35	40-4" Square	0.125"	10 - Ten fixtures at 90°	ULDP09 - 1 1/2" IDW range 5.50 - 6.00		

MOUNTING ORIENTATION
Denotes handhole location

DRILL PATTERNS
UNIVERSAL DRILL PATTERN (UDP)

ACCESSORIES - ORDER SEPARATELY

CATALOG NUMBER	DESCRIPTION
VM1	1st mode vibration damper
VM2	2nd mode vibration damper
VM2SX	2nd mode vibration damper

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EVOLVE
SSSE Series Poles
Square | Straight | Steel

Project Name _____
Date _____ Type _____
Notes _____

Ordering Information

CATALOG NUMBER	HEIGHT	SHAFT	THICKNESS	MOUNTING	POLE DRILLING	FINISH	OPTIONS
SSSE25-40A	10	40-4" Square	0.125"	1	E2	DKBZ	GFF
SSSE25-40B	12	40-4" Square	0.125"	2	E2	DKBZ	GFF
SSSE25-40C	14	40-4" Square	0.125"	3	E2	DKBZ	GFF
SSSE25-40D	16	40-4" Square	0.125"	4	E2	DKBZ	GFF
SSSE25-40E	18	40-4" Square	0.125"	5	E2	DKBZ	GFF
SSSE25-40F	20	40-4" Square	0.125"	6	E2	DKBZ	GFF
SSSE25-40G	25	40-4" Square	0.125"	7	E2	DKBZ	GFF
SSSE25-40H	25	40-4" Square	0.125"	8	E2	DKBZ	GFF
SSSE25-40I	30	40-4" Square	0.125"	9	E2	DKBZ	GFF
SSSE25-40J	35	40-4" Square	0.125"	10	E2	DKBZ	GFF

NOTES
1. Factory supplied templates should be used when setting anchor bolts. Current will supply them for extra charge upon request.
2. Field installed Post-Top Damper designed to reduce post-top deflection or sag. Not recommended for pole heights 20' and taller with a base EPA of 12' or less.
3. Factory installed.
4. VM1 recommended on poles 20' and taller with EPA of less than 12'. Field installed.
5. VM2 recommended on poles 20' and taller with EPA of less than 12'. Field installed.
6. VM2SX recommended on poles 20' and taller with EPA of less than 12'. Field installed.
7. Factory installed.

MOUNTING ORIENTATION
Denotes handhole location

DRILL PATTERNS
UNIVERSAL DRILL PATTERN (UDP)

ACCESSORIES - ORDER SEPARATELY

CATALOG NUMBER	DESCRIPTION
EXH	Extra Handhole
CMF	0.5" Coupling
MPV	Mid Pole Luminaire Bracket
VM1	1st mode vibration damper
VM2	2nd mode vibration damper
VM2SX	2nd mode vibration damper
LAB	Less Anchor
UL	UL Certified

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3 GE EVOLVE EACL SERIES LUMINARIES SHIELDING

4 GE EVOLVE SSSE SERIES POLES

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Project:
LAKE COUNTRY LUTHERAN - ADDITION
401 Campus Drive
Hartland, WI 53029

Issuance and Revisions:

Date	Number	Description
03/28/25		Plan Commission Submittal

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Sheet Title:
PROPOSED LIGHT FIXTURES

Date of Drawing: 03/28/25
Scale: NONE
Drawn By: MCD
Job Number: L25-018
Sheet Number:

PHO1.6

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PROJECT

**LAKE COUNTRY
LUTHERAN HIGH
SCHOOL
BUILDING
ADDITION**

**401 CAMPUS DR
HARTLAND, WI
53029**

ISSUE

NO. REV. DATE DESCRIPTION

**PROGRESS
DOCUMENTS**

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PROJECT INFO

Date: XX.XX.XXXX
Project No. 16.00X

SHEET TITLE

FLOOR PLAN - LEVEL 1 - ADDITION

A101.1

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FLOOR PLAN GENERAL NOTES:

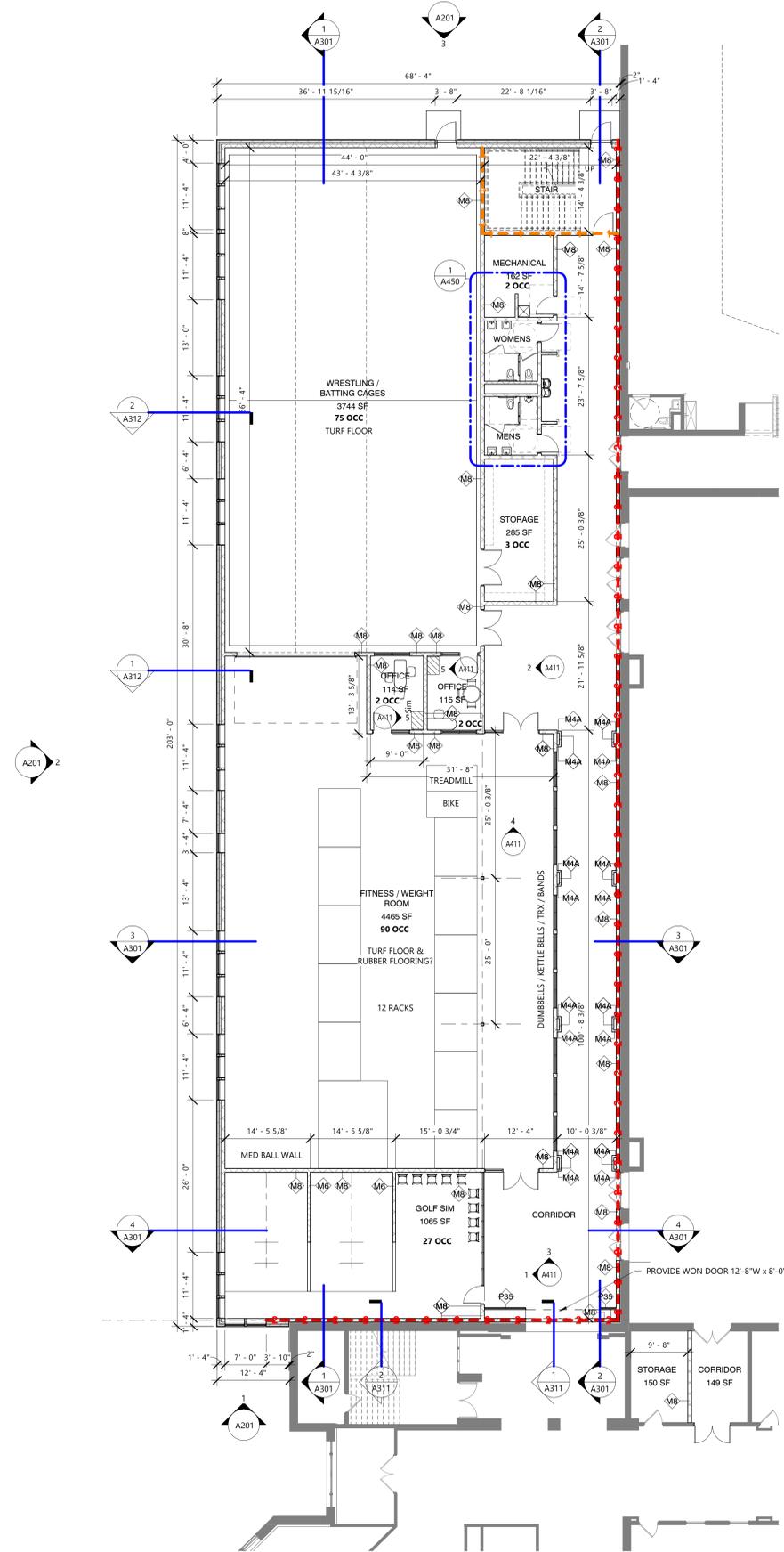
- A. SEE WALL SCHEDULE FOR WALL ASSEMBLY INFORMATION. NOTE: SEE SECTIONS AND ELEVATIONS FOR CHANGES IN MATERIALS/WALL TYPES/ACCENT-ELEMENTS THAT MAY NOT BE INDICATED AT PLAN CUT.
- B. SEE 1 / A003 FOR TYPICAL DIMENSIONS OF DOOR OPENING FROM ADJACENT WALL.
- C. PROVIDE BLOCKING AT ALL MILLWORK AND WALL HUNG ELEMENTS IN WALLS. CONTRACTOR TO COORDINATE W/ OWNER REPRESENTATIVE FOR FINAL LOCATIONS OF OWNER-FURNISHED EQUIPMENT. SEE DETAIL 13 / A002. ALL WOOD BLOCKING TO BE FIRE-RETARDANT TREATED WOOD IN BUILDINGS OF NONCOMBUSTIBLE CONSTRUCTION (IBC TYPE I & II) AND IN RATED WALLS IN BUILDINGS OF COMBUSTIBLE CONSTRUCTION (IBC TYPE III, IV, & V).
- D. PROVIDE CORNER GUARDS AS SHOWN GRAPHICALLY. SEE FINISH PLAN FOR COLORS & TYPES. ALL OUTSIDE CORNERS NOT SHOWN RECEIVING CORNER GUARDS ARE TO BE VERIFIED WITH ARCHITECT DURING BIDDING.
- E. ALL INTERIOR PLAN DIMENSIONS ARE TO FACE OF INTERIOR FINISH OF WALL, U.N.O. SEE DETAIL 23 / A002 FOR MORE INFORMATION.
- F. ALL EXTERIOR DIMENSIONS ARE PER DETAIL 22 / A002, U.N.O.
- G. ALL VERTICAL DIMENSIONS TO BE ABOVE FINISH FLOOR (A.F.F.) U.N.O.
- H. ALL DOORS USED IN CONJUNCTION WITH EXITS SHALL BE ARRANGED TO READILY OPEN WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE FROM THE SIDE OF EGRESS.
- I. A THERMAL BREAK IN THE CONCRETE FLOOR SLAB IS REQUIRED AT ALL EXTERIOR DOOR LOCATIONS. SEE DOOR DETAILS FOR MORE INFORMATION.
- J. ALL PARTITION PENETRATIONS SHALL BE FIELD VERIFIED, BRACED, AND SEALED TO MEET REQUIRED RATINGS. UTILIZE UL-APPROVED METHODS.
- K. PROVIDE PROPER PREPARATION TO ALL SURFACES TO RECEIVE NEW FINISHES.
- L. ALL ROOMS TO RECEIVE ROOM AND NUMBER SIGNAGE ADJACENT TO DOOR. COORDINATE BLOCKING REQUIREMENTS WITH SIGN VENDOR.
- M. WHERE FLOOR DRAINS ARE REQUIRED (SEE PLUMBING) PITCH CONCRETE SLAB TO DRAINS 1/8" PER FOOT, TYP. UNLESS NOTED OTHERWISE.
- N. ALL GYPSUM BOARD INTERIOR SURFACES TO RECEIVE A LEVEL 4 FINISH AND PRIME COAT FOR FUTURE PAINTING APPLICATION.
- O. ALL PARTITIONS TO BE TYPE P1 AND EXTEND TO THE UNDERSIDE OF FLOOR/ROOF DECK ABOVE UNLESS NOTED OTHERWISE.

FLOOR PLAN - SYMBOL KEY

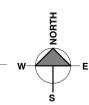
- EXISTING WALL TO REMAIN
- REMOVED WALL
- NEW WALL
- WALL TYPE TAG. SEE WALL TYPES SHEET FOR ADDITIONAL INFORMATION
- DOOR TAG
- MILLWORK. SEE INTERIOR ELEVATIONS AND DETAILS
- FIRE EXTINGUISHERS
 - FE-1 - RECESSED CABINET
 - FE-2 - SEMI-RECESSED CABINET
 - FE-3 - SURFACE MOUNTED CABINET
 - FE-4 - SURFACE MOUNTED EXTINGUISHER ONLY
- PUSH PAD DOOR ACTUATOR
- TOUCHLESS SENSOR DOOR ACTUATOR
- CARD READER
- CONTROL JOINT
- EXISTING DOOR TO REMAIN
- REMOVED DOOR
- NEW DOOR
- WINDOW TAG

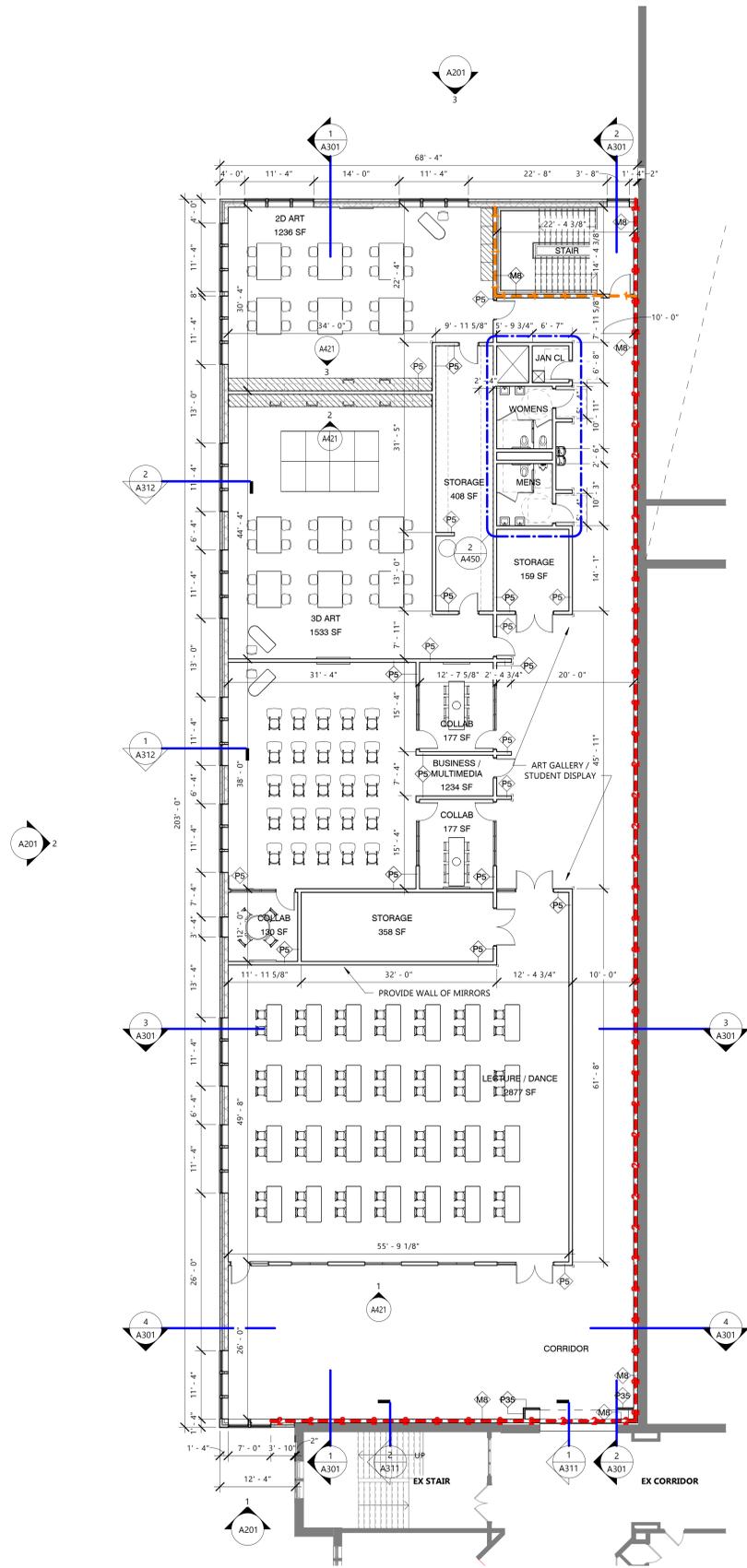
KEYED FLOOR PLAN NOTES - ATHLETIC ADDITION

TAG #	DESCRIPTION
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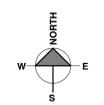


1 LEVEL 1 - FLOOR PLAN - ADDITION
3/32" = 1'-0"





1 LEVEL 2 - FLOOR PLAN - ADDITION
 A201 A102.1 3/32" = 1'-0"



- FLOOR PLAN GENERAL NOTES:**
- A. SEE WALL SCHEDULE FOR WALL ASSEMBLY INFORMATION. NOTE: SEE SECTIONS AND ELEVATIONS FOR CHANGES IN MATERIALS/WALL TYPES/ACCENT ELEMENTS THAT MAY NOT BE INDICATED AT PLAN CUT.
 - B. SEE 1 / A003 FOR TYPICAL DIMENSIONS OF DOOR OPENING FROM ADJACENT WALL.
 - C. PROVIDE BLOCKING AT ALL MILLWORK AND WALL HUNG ELEMENTS IN WALLS. CONTRACTOR TO COORDINATE W/ OWNER REPRESENTATIVE FOR FINAL LOCATIONS OF OWNER FURNISHED EQUIPMENT. SEE DETAIL 13 / A002. ALL WOOD BLOCKING TO BE FIRE-RETARDANT TREATED WOOD IN BUILDINGS OF NONCOMBUSTIBLE CONSTRUCTION (IBC TYPE I & II) AND IN RATED WALLS IN BUILDINGS OF COMBUSTIBLE CONSTRUCTION (IBC TYPE III, IV, & V).
 - D. PROVIDE CORNER GUARDS AS SHOWN GRAPHICALLY. SEE FINISH PLAN FOR COLORS & TYPES. ALL OUTSIDE CORNERS NOT SHOWN RECEIVING CORNER GUARDS ARE TO BE VERIFIED WITH ARCHITECT DURING BIDDING.
 - E. ALL INTERIOR PLAN DIMENSIONS ARE TO FACE OF INTERIOR FINISH OF WALL, U.N.O. SEE DETAIL 23 / A002 FOR MORE INFORMATION.
 - F. ALL EXTERIOR DIMENSIONS ARE PER DETAIL 22 / A002, U.N.O.
 - G. ALL VERTICAL DIMENSIONS TO BE ABOVE FINISH FLOOR (A.F.F.) U.N.O.
 - H. ALL DOORS USED IN CONJUNCTION WITH EXITS SHALL BE ARRANGED TO READILY OPEN WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE FROM THE SIDE OF EGRESS.
 - I. A THERMAL BREAK IN THE CONCRETE FLOOR SLAB IS REQUIRED AT ALL EXTERIOR DOOR LOCATIONS. SEE DOOR DETAILS FOR MORE INFORMATION.
 - J. ALL PARTITION PENETRATIONS SHALL BE FIELD VERIFIED, BRACED, AND SEALED TO MEET REQUIRED RATINGS. UTILIZE UL-APPROVED METHODS.
 - K. PROVIDE PROPER PREPARATION TO ALL SURFACES TO RECEIVE NEW FINISHES.
 - L. ALL ROOMS TO RECEIVE ROOM AND NUMBER SIGNAGE ADJACENT TO DOOR. COORDINATE BLOCKING REQUIREMENTS WITH SIGN VENDOR.
 - M. WHERE FLOOR DRAINS ARE REQUIRED (SEE PLUMBING) PITCH CONCRETE SLAB TO DRAINS 1/8" PER FOOT, TYP, UNLESS NOTED OTHERWISE.
 - N. ALL GYPSUM BOARD INTERIOR SURFACES TO RECEIVE A LEVEL 4 FINISH AND PRIME COAT FOR FUTURE PAINTING APPLICATION.
 - O. ALL PARTITIONS TO BE TYPE P1 AND EXTEND TO THE UNDERSIDE OF FLOOR/ROOF DECK ABOVE UNLESS NOTED OTHERWISE.

- FLOOR PLAN - SYMBOL KEY**
- EXISTING WALL TO REMAIN
 - — — REMOVED WALL
 - — — NEW WALL
 - ◊ WALL TYPE TAG. SEE WALL TYPES SHEET FOR ADDITIONAL INFORMATION
 - DOOR TAG
 - MILLWORK. SEE INTERIOR ELEVATIONS AND DETAILS
 - FE-# FIRE EXTINGUISHERS
 - FE-1 - RECESSED CABINET
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 - FE-3 - SURFACE MOUNTED CABINET
 - FE-4 - SURFACE MOUNTED EXTINGUISHER ONLY
 - PP PUSH PAD DOOR ACTUATOR
 - TS TOUCHLESS SENSOR DOOR ACTUATOR
 - CR CARD READER
 - CJ CONTROL JOINT
 - EXISTING DOOR TO REMAIN
 - REMOVED DOOR
 - NEW DOOR
 - WINDOW TAG



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PROJECT

**LAKE COUNTRY
 LUTHERAN HIGH
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 BUILDING
 ADDITION**

**401 CAMPUS DR
 HARTLAND, WI
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**PROGRESS
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PROJECT INFO

Date: XX.XX.XXXX
 Project No. 16.00X

SHEET TITLE

FLOOR PLAN - LEVEL 2 - ADDITION

A102.1

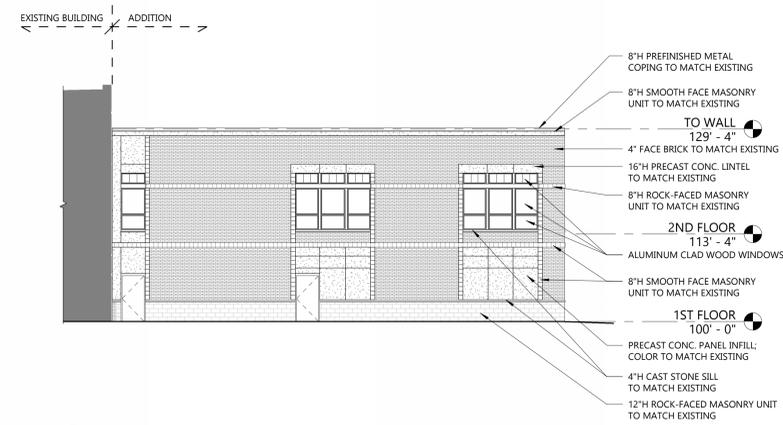


EXISTING BUILDING PHOTOS



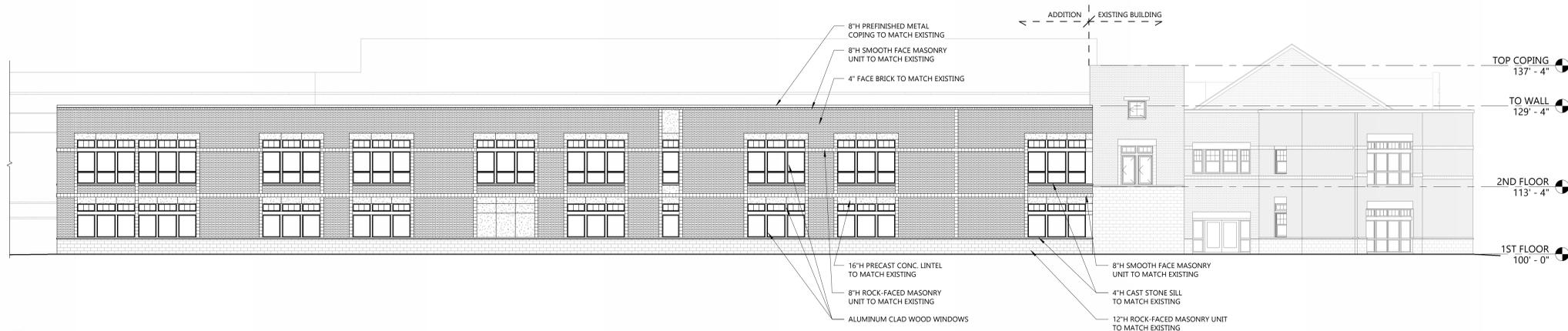
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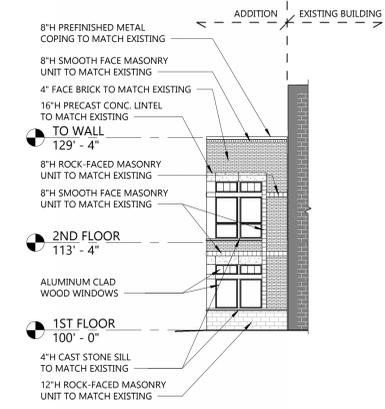
3 NORTH ELEVATION - ADDITION

A100/A201 3/32" = 1'-0"



2 WEST ELEVATION - ADDITION

A101.1/A201 3/32" = 1'-0"



1 SOUTH ELEVATION - ADDITION

A100/A201 3/32" = 1'-0"

PROJECT

**LAKE COUNTRY
LUTHERAN HIGH
SCHOOL
BUILDING
ADDITION**

**401 CAMPUS DR
HARTLAND, WI
53029**

ISSUE

NO. REV. DATE DESCRIPTION

PROGRESS
DOCUMENTS

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PROJECT INFO

Date: XX.XX.XXXX
Project No.: 16.00X

SHEET TITLE

BUILDING ELEVATIONS

A201

2025-0328_VILLAGE SUBMITAL

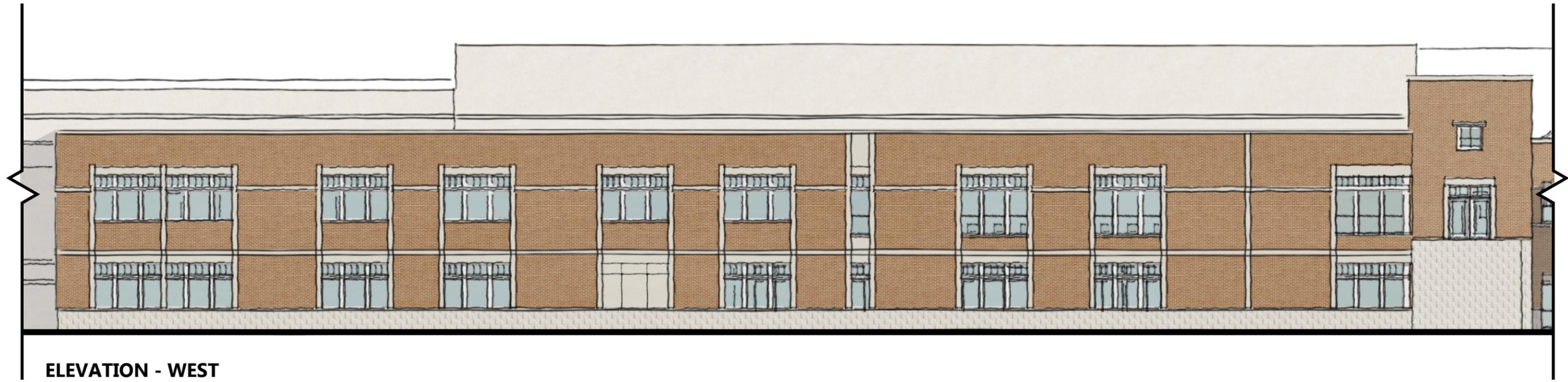
EXTERIOR 1



AERIAL



PERSPECTIVE



ELEVATION - WEST

1/16" = 1'-0"



ELEVATION - NORTH

1/16" = 1'-0"

ZION EVANGELICAL LUTHERAN
CHURCH
1024 E CAPITOL DR
HARTLAND, WI 53029

BRIAN NAHEY
5661 HIGHWAY 83
HARTLAND, WI 53029-8502

DOUGLAS & PATRICIA FOSSUM
526 LAKE COVE CT
SHOREVIEW, MN 55126-4009

JAMIE & JEREMY PAPE
555 WILD OAK RD
HARTLAND, WI 53029-1217

JULIANA HALL
610 SCENIC RD
HARTLAND, WI 53029-1200

LIGHTNING DEVELOPMENT LLC
330 E KILBOURN AVE STE 600
MILWAUKEE, WI 53202-3144

MATTHEW & ALLIE MCDONNELL
613 CHERRY CT
HARTLAND, WI 53029-1219

PHILIP & MARY HOVE
W310N4984 OLD STEEPLE RD
HARTLAND, WI 53029-8529

STEPHEN & LYNDA LEE PLACEWAY
W310N4953 OLD STEEPLE RD
HARTLAND, WI 53029-8530

THOMAS & NANCY KINGSBURY
4515 HEWITTS POINT RD
OCONOMOWOC, WI 53066-3314

ADAM PLOWMAN AND
JACQUELYN PLOWMAN
W310N4958 OLD STEEPLE RD
HARTLAND, WI 53029-8529

DANIEL & HEATHER KEENAN
609 CHERRY CT
HARTLAND, WI 53029-1219

GREGORY & NICOLE BRAZGEL
616 CHERRY CT
HARTLAND, WI 53029-1219

JEFFERY & JUDITH SCHUBERT
W310N4932 OLD STEEPLE RD
HARTLAND, WI 53029

JUSTIN & HEATHER HOPPER
551 WILD OAK RD
HARTLAND, WI 53029-1217

LUTHERAN HIGH SCHOOL
ASSOCIATION OF GREATER MILW
10427 W LINCOLN AVE STE 1300
MILWAUKEE, WI 53227-1263

NICOLAS & AMANDA LANGLOIS
N49W31079 OLD STEEPLE RD
HARTLAND, WI 53029-8533

RANDY BURG
560 WILD OAK RD
HARTLAND, WI 53029-1217

SURVIVOR'S TRUST
W307N5276 ANDERSON RD
HARTLAND, WI 53029-1032

BING YU AND XUERONG LIU
618 SCENIC RD
HARTLAND, WI 53029-1200

DEIRDRE & KAMERON CARDOSA
559 WILD OAK RD
HARTLAND, WI 53029-1217

JAMES & MICHELLE HAYETT
W310N5012 OLD STEEPLE RD
HARTLAND, WI 53029

JOHN & MEG HANELY
556 WILD OAK RD
HARTLAND, WI 53029-1217

KYLE & RYLEE KOSIBOSKI
608 CHERRY CT
HARTLAND, WI 53029-1218

MARIO & TERRI DOMACINOVICH
552 WILD OAK RD
HARTLAND, WI 53029-1217

PAUL ZANONI & ROMAINE VALERO
N49W31057 OLD STEEPLE RD
HARTLAND, WI 53029-8533

STATE OF WI & DEPT. OF
TRANSPORTATION
C/O DAVE KITZMAN PO BOX 798
WAUKESHA, WI 53187-0798

TORY & JEANA FRENCH
614 SCENIC RD
HARTLAND, WI 53029-1200



Baker Tilly US, LLP
790 N Water St
Suite 2000
Milwaukee, WI 53202
United States of America

T: +1 (414) 777 5500
F: +1 (414) 777 5555

bakertilly.com

April 16, 2025

Mr. Ryan Bailey
Village of Hartland
210 Cottonwood Avenue
Hartland, Wisconsin 53029

Dear Mr. Bailey:

Thank you for using Baker Tilly US, LLP (Baker Tilly, we, our) as your accountants and business advisors.

We are pleased to confirm our understanding of the nature and limitations of the services we are to provide for Village of Hartland (the Village, Client, you, your).

Services and Related Report

We will examine the relevant compliance requirements of Coronavirus State and Local Fiscal Recovery Funds (21.027) of the Village for the period ended December 31, 2024. The objectives of our examination are to (i) obtain reasonable assurance about whether the assertion is free from material misstatement based on the OMB Compliance Supplement Part IV "Requirements for an Alternative Compliance Examination Engagement for Recipients That Would Otherwise be Required to Undergo a Single Audit or Program-Specific Audit as a Result of Receiving Coronavirus State and Local Fiscal Recovery Funds" of the CSLFRF section of the 2022 OMB Compliance Supplement (Compliance Requirements); and (ii) to express an opinion as to whether the subject matter is presented, in all material respects, in accordance with the criteria.

Our Responsibilities and Limitations

Our examination will be conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants (AICPA). Accordingly, it will include examining, on a test basis, your records and other procedures to obtain evidence necessary to enable us to express our opinion. We will issue a written report upon completion of our examination. Our report will be addressed to those charged with governance of the Village. We cannot provide assurance that an unmodified opinion will be expressed. Circumstances may arise in which it is necessary for us to modify our opinion. If our opinion is other than unmodified, we will discuss the reasons with you in advance. If, for any reason, we are unable to complete the examination or are unable to form or have not formed an opinion, we may decline to express an opinion or may withdraw from this engagement.

Because of the inherent limitations of an examination engagement, together with the inherent limitations of internal control, an unavoidable risk exists that some material misstatements may not be detected, even though the examination is properly planned and performed in accordance with the attestation standards.

Mr. Ryan Bailey
Village of Hartland

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We will plan and perform the examination to obtain reasonable assurance about whether the assertion is free from material misstatement, based on the criteria. Our engagement will not include a detailed inspection of every transaction and cannot be relied on to disclose all material errors, or known and suspected fraud or noncompliance with laws or regulations, or internal control deficiencies, that may exist. However, we will inform you of any known and suspected fraud and noncompliance with laws or regulations, internal control deficiencies identified during the engagement, and uncorrected misstatements that come to our attention unless clearly trivial.

Management's Responsibilities

We understand that you will provide us with the information required for our examination and that you are responsible for the accuracy and completeness of that information. We may advise you about appropriate criteria, but the responsibility for the subject matter remains with you.

You are responsible for the presentation of the subject matter in accordance with the criteria; and for selecting the criteria and determining that such criteria are appropriate for your purposes. You are responsible for, and agree to provide us with, a written assertion about whether the subject matter is presented in accordance with the the OMB Compliance Supplement Part IV "Requirements for an Alternative Compliance Examination Engagement for Recipients That Would Otherwise be Required to Undergo a Single Audit or Program-Specific Audit as a Result of Receiving Coronavirus State and Local Fiscal Recovery Funds" of the CSLFRF section of the 2022 OMB Compliance Supplement (Compliance Requirements). Failure to provide such an assertion will result in our withdrawal from the engagement. You are also responsible for providing us with (i) access to all information of which you are aware that is relevant to the measurement, evaluation or disclosure of the subject matter; (ii) additional information that we may request for the purpose of the examination; and (iii) unrestricted access to persons within the entity from whom we determine it necessary to obtain evidence.

At the conclusion of the engagement, you agree to provide us with certain written representations in the form of a representation letter.

Management is responsible for informing us on a timely basis of the name of any single investor in you that owns 20% or more of your equity at any point in time. Management is also responsible for informing us on a timely basis of any investments held by you which constitutes 20% or more of the equity/capital of the investee entity at any point in time.

Nonattest Services

Prior to or as part of our audit engagement, it may be necessary for either Baker Tilly US, LLP or Baker Tilly Advisory Group, LP to perform certain nonattest services.

Nonattest services that we or Baker Tilly Advisory Group, LP will be providing are as follows:

- > Financial statement preparation, as needed
- > Propose adjusting journal entries, as needed
- > Compiled regulatory reports

Baker Tilly US, LLP and Baker Tilly Advisory Group, LP will not perform any management functions or make management decisions on your behalf with respect to any nonattest services provided.

Mr. Ryan Bailey
Village of Hartland

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In connection with Baker Tilly US, LLP's or Baker Tilly Advisory Group, LP's performance of any nonattest services, you agree that you will:

- > Continue to make all management decisions and perform all management functions, including approving all journal entries and general ledger classifications when they are submitted to you.
- > Designate an employee with suitable skill, knowledge and/or experience, preferably within senior management, to oversee the services performed.
- > Evaluate the adequacy and results of the nonattest services performed.
- > Accept responsibility for the results of the nonattest services.
- > Establish and maintain internal controls, including monitoring ongoing activities related to the nonattest function.

Reproduction of the Subject Matter

If you intend to reproduce or publish the subject matter, and make reference to our firm name in connection therewith, you agree to publish the subject matter in its entirety. In addition, you agree to provide us, for our approval and consent, proofs before printing, and final materials before distribution.

With regard to the electronic dissemination of the subject matter, including subject matter published electronically on your internet website, you understand that electronic sites are a means to distribute information and, therefore, we are not required to read the information contained in these sites or to consider the consistency of other information in the electronic site with the original document.

Ownership of Workpapers

The documentation for this engagement, including the workpapers is the property of Baker Tilly and constitutes confidential information. We may have a responsibility to retain the documentation for a period of time sufficient to satisfy any applicable legal or regulatory requirements for records retention. Baker Tilly does not retain any original client records and we will return such records to you at the completion of the services rendered under this engagement. When such records are returned to you, it is the Village's responsibility to retain and protect its accounting and other business records for future use, including potential review by any government or other regulatory agencies. By your signature below, you acknowledge and agree that, upon the expiration of the documentation retention period, Baker Tilly shall be free to destroy our workpapers related to this engagement. If we are required by law, regulation or professional standards to make certain documentation available to Regulators, the Village hereby authorizes us to do so.

Mr. Ryan Bailey
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Timing and Fees

We estimate that our fees for these services will range from \$4,000 to \$6,000 for the examination.

In addition to professional fees, our invoices will include our standard technology charge, plus travel and subsistence and other out-of-pocket expenses related to the engagement.

We plan to begin our procedures as soon as we received the necessary information and, unless unforeseeable problems are encountered, the engagement should be completed by . Completion of our work is subject to, among other things, (i) appropriate cooperation from Village's personnel, including timely preparation of necessary schedules and (ii) timely responses to our inquiries. When and if for any reason the Village is unable to provide such schedules, information and assistance, Baker Tilly US, LLP and you may mutually revise the fee to reflect additional services, if any, required of us to complete the engagement.

Invoices for these fees will be rendered each month as work progresses and are payable on presentation. A charge of 1.5 percent per month shall be imposed on accounts not paid within thirty (30) days of receipt of our statement for services provided. In accordance with our firm policies, work may be suspended if your account becomes thirty (30) days or more overdue and will not be resumed until your account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed upon written notice of termination, even if we have not completed our report. The Village will be obligated to compensate us for all time expended and to reimburse us for all out of pocket expenditures through the date of termination. In the event that collection procedures are required, the Village agrees to be responsible for all expenses of collection including related attorneys' fees.

Our fee estimate is based on certain assumptions. Certain circumstances may arise during the course of our examination that could significantly affect the targeted completion date or our fee estimate, and additional fees may be necessary as a result. Such circumstances include but are not limited to the following:

- Changes to the timing of the engagement initiated by the Village, which may require the reassignment of our personnel.
- The Village's failure to provide all information requested by us (i) on the date requested, (ii) in the form acceptable to us, (iii) with no mathematical errors, and (iv) in agreement with the appropriate Village records.
- Significant delays in responding to inquiries made of Village personnel, or significant changes in Village accounting policies or practices, or in the Village's accounting personnel, their responsibilities, or their availability.
- Significant delays or errors in the draft financial statements and necessary schedules prepared by the Village's personnel.
- Implementation of new general ledger software or a new chart of accounts by the Village.
- Significant changes in the Village's business operations, including business combinations, the creation of new entities, divisions, or subsidiaries within the Village, significant new employment or equity agreements, or significant subsequent events. Certain business transactions or changes in business operations or conditions, and/or financial reporting may require us to utilize the services of internal or external valuation or tax specialists.

Mr. Ryan Bailey
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- New financing arrangements or modifications to existing financing arrangements, or significant new federal or state funding.
- Significant deficiencies or material weaknesses in the design or operating effectiveness of the Village's internal control over financial reporting.
- Issuance of additional accounting or financial reporting standards subsequent to or effective for the periods covered by this Engagement Letter.
- Circumstances beyond our control.

Revisions to the scope of our work will be communicated to you and may be set forth in the form of an "Amendment to Existing Engagement Letter."

Baker Tilly's fees are exclusive of any federal, national, regional, state, provincial or local taxes, including any VAT or other withholdings, imposed on this transaction, the fees, or on Client's use of the Services or possession of the Deliverable (individually or collectively, the Taxes). All applicable Taxes shall be paid by Client without deduction from any fees owed by Client to Baker Tilly. In the event Client fails to pay any Taxes when due, Client shall defend, indemnify, and hold harmless Baker Tilly, its officers, agents, employees and consultants from and against any and all fines, penalties, damages, costs (including, but not limited to, claims, liabilities or losses arising from or related to such failure by Client) and will pay any and all damages, as well as all costs, including, but not limited to, mediation and arbitration fees and expenses as well as attorneys' fees, associated with Client's breach of this section.

We may use temporary contract staff to perform certain tasks on your engagement and will bill for that time at the rate that corresponds to Baker Tilly staff providing a similar level of service. Upon request, we will be happy to provide details on training, supervision and billing arrangements we use in connection with these professionals. Additionally, we may from time to time, and depending on the circumstances, use service providers (e.g., to act as a specialist or audit an element of the financial statements) in serving your account. We may share confidential information about you with these contract staff and service providers, but remain committed to maintaining the confidentiality and security of your information. Accordingly, we maintain internal policies, procedures and safeguards to protect the confidentiality of your personal information. In addition, we will secure confidentiality agreements with all contract staff and service providers to maintain the confidentiality of your information and we will take reasonable precautions to determine that they have appropriate procedures in place to prevent the unauthorized release of your confidential information to others. In the event that we are unable to secure an appropriate confidentiality agreement, you will be asked to provide your consent prior to the sharing of your confidential information with the contract staff or third-party service provider. Furthermore, the firm will remain responsible for the work provided by any such contract staff or third-party service providers.

Mr. Ryan Bailey
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To the extent the Services require Baker Tilly to receive personal data or personal information from Client, Baker Tilly may process, and engage subcontractors to assist with processing, any personal data or personal information, as those terms are defined in applicable privacy laws. Baker Tilly's processing shall be in accordance with the requirements of the applicable privacy laws relevant to the processing in providing Services hereunder, including Services performed to meet the business purposes of the Client, such as Baker Tilly's tax, advisory, and other consulting services. Applicable privacy laws may include any local, state, federal or international laws, standards, guidelines, policies or regulations governing the collection, use, disclosure, sharing or other processing of personal data or personal information with which Baker Tilly or its Clients must comply. Such privacy laws may include (i) the EU General Data Protection Regulation 2016/679 (GDPR); (ii) the California Consumer Privacy Act of 2018 (CCPA); and/or (iii) other laws regulating marketing communications, requiring security breach notification, imposing minimum security requirements, requiring the secure disposal of records, and other similar requirements applicable to the processing of personal data or personal information. Baker Tilly is acting as a Service Provider/Data Processor, as those terms are defined respectively under the CCPA/GDPR, in relation to Client personal data and personal information. As a Service Provider/Data Processor processing personal data or personal information on behalf of Client, Baker Tilly shall, unless otherwise permitted by applicable privacy law, (a) follow Client instructions; (b) not sell personal data or personal information collected from the Client or share the personal data or personal information for purposes of targeted advertising; (c) process personal data or personal information solely for purposes related to the Client's engagement and not for Baker Tilly's own commercial purposes; and (d) cooperate with and provide reasonable assistance to Client to ensure compliance with applicable privacy laws. Client is responsible for notifying Baker Tilly of any applicable privacy laws the personal data or personal information provided to Baker Tilly is subject to, and Client represents and warrants it has all necessary authority (including any legally required consent from individuals) to transfer such information and authorize Baker Tilly to process such information in connection with the Services described herein. Client further understands Baker Tilly US, LLP and Baker Tilly Advisory Group, LP will co-process Client data as necessary to perform the Services, pursuant to the alternative structure in place between the two entities. Baker Tilly Advisory Group, LP maintains custody of client files for both entities. By executing this Engagement Letter, you hereby consent to the transfer to Baker Tilly Advisory Group, LP of all your Client files, workpapers and work product. Baker Tilly Advisory Group, LP is bound by the same confidentiality obligations as Baker Tilly US, LLP. Baker Tilly is responsible for notifying Client if Baker Tilly becomes aware that it can no longer comply with any applicable privacy law and, upon such notice, shall permit Client to take reasonable and appropriate steps to remediate personal data or personal information processing. Client agrees that Baker Tilly has the right to utilize Client data to improve internal processes and procedures and to generate aggregated/de-identified data from the data provided by Client to be used for Baker Tilly business purposes and with the outputs owned by Baker Tilly. For clarity, Baker Tilly will only disclose aggregated/de-identified data in a form that does not identify Client, Client employees, or any other individual or business entity and that is stripped of all persistent identifiers. Client is not responsible for Baker Tilly's use of aggregated/de-identified data.

Baker Tilly has established information security related operational requirements that support the achievement of our information security commitments, relevant information security related laws and regulations, and other information security related system requirements. Such requirements are communicated in Baker Tilly's policies and procedures, system design documentation and contracts with customers. Information security policies have been implemented that define our approach to how systems and data are protected. Client is responsible for providing timely written notification to Baker Tilly of any additions, changes or removals of access for Client personnel to Baker Tilly provided systems or applications. If Client becomes aware of any known or suspected information security or privacy related incidents or breaches related to this agreement, Client should timely notify Baker Tilly via email at dataprotectionofficer@bakertilly.com.

Any additional services that may be requested, and we agree to provide, may be the subject of separate arrangements.

Mr. Ryan Bailey
Village of Hartland

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We may be required to disclose confidential information to federal, state and international regulatory bodies or a court in criminal or other civil litigation. In the event that we receive a request from a third-party (including a subpoena, summons or discovery demand in litigation) calling for the production of information, we will promptly notify the Village, unless otherwise prohibited. In the event we are requested by the Village or required by government regulation, subpoena or other legal process to produce our engagement working papers or our personnel as witnesses with respect to services rendered to the Village, so long as we are not a party to the proceeding in which the information is sought, we may seek reimbursement for our professional time and expenses, as well as the fees and legal expenses, incurred in responding to such a request.

We may be required to disclose confidential information with respect to complying with certain professional obligations, such as peer review programs. All participants in such peer review programs are bound by the same confidentiality requirements as Baker Tilly and its employees. Baker Tilly will not be required to notify the Village if disclosure of confidential information is necessary for peer review purposes.

Resolution of Disagreements

In the unlikely event that differences concerning services or fees should arise that are not resolved by mutual agreement, both parties agree to attempt in good faith to settle the dispute by mediation administered by the American Arbitration Association (AAA) under its mediation rules for professional accounting and related services disputes before resorting to litigation or any other dispute-resolution procedure. Each party shall bear their own expenses from mediation.

If mediation does not settle the dispute or claim, then the parties agree that the dispute or claim shall be settled by binding arbitration. The arbitration proceeding shall take place in the city in which the Baker Tilly office providing the relevant services is located, unless the parties mutually agree to a different location. The proceeding shall be governed by the provisions of the Federal Arbitration Act (FAA) and will proceed in accordance with the then current Arbitration Rules for Professional Accounting and Related Disputes of the AAA, except that no prehearing discovery shall be permitted unless specifically authorized by the arbitrator. The arbitrator will be selected from Judicate West, AAA, Judicial Arbitration & Mediation Services (JAMS), the Center for Public Resources or any other internationally or nationally-recognized organization mutually agreed upon by the parties. Potential arbitrator names will be exchanged within fifteen (15) days of the parties' agreement to settle the dispute or claim by binding arbitration, and arbitration will thereafter proceed expeditiously. Any issue concerning the extent to which any dispute is subject to arbitration, or concerning the applicability, interpretation, or enforceability of any of these procedures, shall be governed by the FAA and resolved by the arbitrators. The arbitration will be conducted before a single arbitrator, experienced in accounting and auditing matters. The arbitrator shall have no authority to award nonmonetary or equitable relief and will not have the right to award punitive damages or statutory awards. Furthermore, in no event shall the arbitrator have power to make an award that would be inconsistent with the Engagement Letter or any amount that could not be made or imposed by a court deciding the matter in the same jurisdiction. The award of the arbitration shall be in writing and shall be accompanied by a well-reasoned opinion. The award issued by the arbitrator may be confirmed in a judgment by any federal or state court of competent jurisdiction. Discovery shall be permitted in arbitration only to the extent, if any, expressly authorized by the arbitrator(s) upon a showing of substantial need. Each party shall be responsible for their own costs associated with the arbitration, except that the costs of the arbitrator shall be equally divided by the parties. Both parties agree and acknowledge that they are each giving up the right to have any dispute heard in a court of law before a judge and a jury, as well as any appeal. The arbitration proceeding and all information disclosed during the arbitration shall be maintained as confidential, except as may be required for disclosure to professional or regulatory bodies or in a related confidential arbitration. The arbitrator(s) shall apply the limitations period that would be applied by a court deciding the matter in the same jurisdiction, including the contractual limitations set forth in this Engagement Letter, and shall have no power to decide the dispute in any manner not consistent with such limitations period. The arbitrator(s) shall be empowered to interpret the applicable statutes of limitations.

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Village of Hartland

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Our services shall be evaluated solely on our substantial conformance with the terms expressly set forth herein, including all applicable professional standards. Any claim of nonconformance must be clearly and convincingly shown.

Limitation on Damages and Indemnification

The liability (including attorney's fees and all other costs) of Baker Tilly and its present or former partners, principals, agents or employees related to any claim for damages relating to the services performed under this Engagement Letter shall not exceed the fees paid to Baker Tilly for the portion of the work to which the claim relates, except to the extent finally determined to have resulted from the willful misconduct or fraudulent behavior of Baker Tilly relating to such services. This limitation of liability is intended to apply to the full extent allowed by law, regardless of the grounds or nature of any claim asserted, including the negligence of either party. Additionally, in no event shall either party be liable for any lost profits, lost business opportunity, lost data, consequential, special, incidental, exemplary or punitive damages, delays or interruptions arising out of or related to this Engagement Letter even if the other party has been advised of the possibility of such damages.

As Baker Tilly is performing the services solely for your benefit, you will indemnify Baker Tilly, its subsidiaries and their present or former partners, principals, employees, officers and agents against all costs, fees, expenses, damages and liabilities (including attorney's fees and all defense costs) associated with any third-party claim, relating to or arising as a result of the services, or this Engagement Letter.

Because of the importance of the information that you provide to Baker Tilly with respect to Baker Tilly's ability to perform the services, you hereby release Baker Tilly and its present and former partners, principals, agents and employees from any liability, damages, fees, expenses and costs, including attorney's fees, relating to the services, that arise from or relate to any information, including representations by management, provided by you, Village's personnel or agents, that is not complete, accurate or current, whether or not management knew or should have known that such information was not complete, accurate or current.

Each party recognizes and agrees that the warranty disclaimers and liability and remedy limitations in this Engagement Letter are material bargained for bases of this Engagement Letter and that they have been taken into account and reflected in determining the consideration to be given by each party under this Engagement Letter and in the decision by each party to enter into this Engagement Letter.

The terms of this section shall apply regardless of the nature of any claim asserted (including, but not limited to, contract, tort or any form of negligence, whether of you, Baker Tilly or others), but these terms shall not apply to the extent finally determined to be contrary to the applicable law or regulation. These terms shall also continue to apply after any termination of this Engagement Letter.

You accept and acknowledge that any legal proceedings arising from or in conjunction with the services provided under this Engagement Letter must be commenced within twelve (12) months after the performance of the services for which the action is brought, without consideration as to the time of discovery of any claim or any other statutes of limitations or repose.

Other Matters

Neither this Engagement Letter, any claim, nor any rights or licenses granted hereunder may be assigned, delegated or subcontracted by either party without the written consent of the other party. Either party may assign and transfer this Engagement Letter to any successor that acquires all or substantially all of the business or assets of such party by way of merger, consolidation, other business reorganization or the sale of interest or assets, provided that the party notifies the other party in writing of such assignment and the successor agrees in writing to be bound by the terms and conditions of this Engagement Letter.

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Our dedication to client service is carried out through our employees who are integral in meeting this objective. In recognition of the importance of our employees to Baker Tilly, it is hereby agreed that the Village will not solicit our employees for employment or enter into an independent contractor arrangement with any individual who is or was an employee of Baker Tilly for a period of twelve (12) months following the date of the conclusion of this engagement. If the Village violates this nonsolicitation clause, the Village agrees to pay to Baker Tilly a fee equal to the hired individual's annual salary at the time of the violation so as to reimburse Baker Tilly for the costs of hiring and training a replacement.

The services performed under this Agreement do not include the provision of legal advice and Baker Tilly makes no representations regarding questions of legal interpretation. Client should consult with its attorneys with respect to any legal matters or items that require legal interpretation under federal, state or other type of law or regulation.

Baker Tilly US, LLP and Baker Tilly Advisory Group, LP and its subsidiary entities provide professional services through an alternative practice structure in accordance with the AICPA Code of Professional Conduct and applicable laws, regulations and professional standards. Baker Tilly US, LLP is a licensed independent CPA firm that provides attest services to clients. Baker Tilly Advisory Group, LP and its subsidiary entities provide tax and business advisory services to their clients. Baker Tilly Advisory Group, LP and its subsidiary entities are not licensed CPA firms.

Baker Tilly Advisory Group, LP and its subsidiaries and Baker Tilly US, LLP, trading as Baker Tilly, are independent members of Baker Tilly International. Baker Tilly International Limited is an English company. Baker Tilly International provides no professional services to clients. Each member firm is a separate and independent legal entity and each describes itself as such. Baker Tilly Advisory Group, LP and Baker Tilly US, LLP are not Baker Tilly International's agents and do not have the authority to bind Baker Tilly International or act on Baker Tilly International's behalf. None of Baker Tilly International, Baker Tilly Advisory Group, LP, Baker Tilly US, LLP, nor any of the other member firms of Baker Tilly International has any liability for each other's acts or omissions. The name Baker Tilly and its associated logo is used under license from Baker Tilly International Limited.

This Engagement Letter and any applicable online terms and conditions or terms of use ("Online Terms") related to online products or services made available to Village by Baker Tilly ("Online Offering") constitute the entire agreement between the Village and Baker Tilly regarding the services described in this Engagement Letter and supersedes and incorporates all prior or contemporaneous representations, understandings or agreements, and may not be modified or amended except by an agreement in writing signed between the parties hereto. For clarity and avoidance of doubt, the terms of this Engagement Letter govern Baker Tilly's provision of the services described herein, and the Online Terms govern Village's use of the Online Offering. This Engagement Letter's provisions shall not be deemed modified or amended by the conduct of the parties.

The provisions of this Engagement Letter, which expressly or by implication are intended to survive its termination or expiration, will survive and continue to bind both parties, including any successors or assignees. If any provision of this Engagement Letter is declared or found to be illegal, unenforceable or void, then both parties shall be relieved of all obligations arising under such provision, but if the remainder of this Engagement Letter shall not be affected by such declaration or finding and is capable of substantial performance, then each provision not so affected shall be enforced to the extent permitted by law or applicable professional standards.

If because of a change in the Village's status or due to any other reason, any provision in this Engagement Letter would be prohibited by, or would impair our independence under laws, regulations or published interpretations by governmental bodies, commissions or other regulatory agencies, such provision shall, to that extent, be of no further force and effect and this agreement shall consist of the remaining portions.

Mr. Ryan Bailey
Village of Hartland

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This agreement shall be governed by and construed in accordance with the laws of the State of Illinois, without giving effect to the provisions relating to conflict of laws.

We appreciate the opportunity to be of service to you.

If there are any questions regarding the Engagement Letter, please contact Wendi M. Unger, the professional on this engagement who is responsible for the overall supervision and review of the engagement and for determining that the engagement has been completed in accordance with professional standards. Wendi M. Unger is available at 414 777 5423.

Sincerely,

BAKER TILLY US, LLP

Handwritten signature in black ink that reads "Baker Tilly US, LLP". The signature is written in a cursive, flowing style.

The services and terms as set forth in this Engagement Letter are agreed to by:

Signature

Title

Date

2025 BUDGET CALENDAR FOR 2026 BUDGET

<i>Fri</i>	<i>Jul 25</i>	<i>Budget Books Distributed to Dept Heads {Develop Revenue Projections}</i>
<i>Mon</i>	<i>Jul 28</i>	<i>Capital Improvements Discussion with Village Board (5 PM Start Time)</i>
<i>Wed</i>	<i>Aug 13</i>	<i>Departmental Budgets including budget narratives are returned to Village Manager {Budgets may be turned in before the 9th if completed earlier.}</i>
<i>Mon</i>	<i>Aug 18</i>	<i>Budget Reviews all this Week with Department Heads (Village Manager meet with them if needed/desired)</i>
<i>Tue</i>	<i>Sep 2</i>	<i>Distribute Budget Books to Board Members during this week</i>
<i>Wed</i>	<i>Sep 10</i>	<i>Village Board - Budget Workshop (Department Presentations, 6:05 PM Start Time)</i>
<i>Thur</i>	<i>Sep 11</i>	<i>Village Board - Budget Workshop (All Remaining Departments and Funds, 6:05 PM Start Time)</i>
<i>Mon</i>	<i>Sep 15</i>	<i>Send Budget Summary to Waukesha Freeman</i>
<i>Thurs</i>	<i>Oct 2</i>	<i>Publish Proposed Budget</i>
<i>Mon</i>	<i>Oct 27</i>	<i>Village Board - Budget Meeting Budget Public Hearing</i>
<i>Mon</i>	<i>Nov 10</i>	<i>Village Board - Budget Meeting Motion to Approve 2026 Budget</i>

Board/Committee	Members with Expiring Terms	Expires	New Term Expires
Board of Review *requires annual appointment	Village President	4/30/2025	4/30/2026
	Village Clerk	4/30/2025	4/30/2026
	Finance Director	4/30/2025	4/30/2026
	Village Trustee	4/30/2025	4/30/2026
	Citizen Member	4/30/2025	4/30/2026
Del-Hart	David Lamerand, Citizen Member, Vice-Chair	5/31/2025	5/31/2026
	Adam Pfeiffer, Trustee	5/31/2025	5/31/2026
	Linda Hallquist, Citizen Member	5/31/2025	5/31/2026
	Ann Wallschlager, Trustee	5/31/2025	5/31/2026
	Jeff Pfannerstill, Alternate	Indefinite	Indefinite
Hartland Public Library Board	Elise Miller	4/30/2025	4/30/2028
Jt. Arch/Plan Commission	Jeff Bierman (citizen appt.)	4/30/2025	4/30/2028
	Tim Hallquist (Park & Recreation)	4/30/2025	4/30/2026
	Ann Wallschlager (V Bd. Appt.)	4/30/2025	4/30/2026
	Village President Ex-officio Chair	4/30/2025	4/30/2027
	Vacant	4/30/2026	
Park & Recreation Board	Tim Hallquist	4/30/2025	4/30/2028
	Shaunta' de Boer	4/30/2025	4/30/2028
Police & Fire Commission	Rob Little	4/30/2025	4/30/2030



John T. Ford

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April 21, 2025

Village of Hartland

210 Cottonwood Avenue
Hartland, WI 53029
(262) 367-2714

**Re: Hartland Senior Development – PUD AMENDMENT
Lot 2 CSM 12091 3.76 Acres - Campus Drive, Hartland, WI**

Dear Village of Hartland:

3LP Hartland Senior LLC (“Developer”) proposes to modify the previously approved (October 28, 2024) PUD Development Agreement with the Village of Hartland. The full continuum of care Senior Housing development (“Project”) remains located on Campus Drive across from Lake Country Lutheran High School on a portion of current Lot 2 (HAV0423981056). Developer is requesting the following two primary modifications to the previously approved development, in order to make this project financially feasible and able to move forward.

1. ARCHITECTURAL MODIFICATIONS

- a. Unit Count Increase
 - i. Increase of total unit count +6 (from 118 to 124).
 - ii. PUD previously allowed maximum of 120 units.

- b. Design Modifications
 - i. 4th Floor – Independent Living – removal of rooftop clubroom + outdoor deck → convert to additional units.
 - ii. Material Modifications

2. IMPACT FEE WAIVER REQUEST

- a. In order to make this project financially feasible, Developer requests a waiver of all Impact & Sewer Connection Fees, EXCLUDING the Del-Hart Sewer Connection Fees.

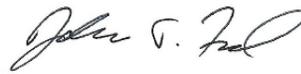
Hartland Senior			
<i>124 Units</i>	Village 2025 Estimate		Developer Request
Impact Fee	\$	204,776	WAIVER
Village Sewer Connection Fees	\$	490,770	WAIVER
Del-Hart Sewer Connection Fees	\$	570,255	\$ 570,255
Total Fees	\$	1,265,801	\$ 570,255
\$/Unit	\$	10,208	\$ 4,599

All other components of development remain unchanged, as previously approved.

This request and corresponding updated materials will be presented at the scheduled Hartland Plan Commission meeting on April 21, 2025. We look forward to further discussing the challenges this development has encountered since original approval, what we have done to mitigate portion of such, and why the above two requests are needed in order to make this project financially feasible for this community.

We appreciate the continued collaborative efforts with the Village of Hartland to make an Impact through Real Estate and bring another great development to the community.

Thank you,



John T. Ford
Chief Development Officer

Exhibit A – Updated Architectural Design Set