

MEMORANDUM

CITY OF WATERTOWN, NEW YORK PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT 245 WASHINGTON STREET, ROOM 305, WATERTOWN, NY 13601

PHONE: 315-785-7741 - FAX: 315-782-9014

TO: Planning Commission Members

FROM: Michael A. Lumbis, Planning and Community Development Director

PRIMARY REVIEWER: Geoffrey T. Urda

SUBJECT: Site Plan Approval – 1067 Marble Street, VL-1 Marble Street and VL-8 Water Street

DATE: November 30, 2023

Request: Site Plan Approval to construct a 4,500 SF building addition and associated site

improvements at 1067 Marble Street, VL-1 Marble Street and VL-8 Water Street,

Parcel Numbers 4-27-330.000, 4-27-331.000 and 4-27-301.000

Applicant: Mark Tompkins of G.Y.M.O. Architecture, Engineering and Land Surveying,

D.P.C. on behalf of Stephen Hale of Hale's Bus Garage, LLC

Proposed Use: Auto Repair

Property Owners: Hale's Bus Garage, LLC; VL1 Marble Street, LLC; and Robert C. Freeman III

Submitted:

Property Survey: Yes Preliminary Architectural Drawings: Yes

Site Plan: Yes Preliminary Site Engineering Plans: Yes

Vehicle and Pedestrian Circulation Plan: Yes Construction Time Schedule: Yes

Landscaping and Grading Plan: Yes Description of Uses, Hours & Traffic Volume: Yes

SEQRA: Unlisted Jefferson County 239-m Review: Yes

Zoning Information:

District: Neighborhood Mixed Use Maximum Lot Coverage: 70 percent

Setback Requirements: F: 0' Min. 10' Max or Buffer Zones Required: Yes

Average, S: 10', R: 10'

Project Overview: The applicant proposes to construct a 4,500 SF building addition and pave approximately 30,000 SF of reconstructed asphalt parking and internal drive aisle area on the collective footprint of three subject parcels. The proposed addition would extend the western end of the existing building by 50 linear feet of façade length and provide four additional interior service bays.

Existing Conditions: The primary subject parcel, 1067 Marble Street (4-27-330.000), contains the existing 25,944 SF garage building and a 3,150 SF accessory structure that is presently vacant office space. The primary building is surrounded by surface parking and there is additional angled bus parking in the rear, northeast corner of the site. There is an approximately 125' wide lawn area in the front of the parcel that separates the parking lot from the street, approximately 30' of which is in the Right-of-Way (ROW).

VL-1 Marble Street (4-27-331.000) is a 1,000 SF vacant parcel that exists almost entirely within the aforementioned 125' wide lawn area, with only its northernmost edge containing pavement.

VL-8 Water Street (4-27-301.000) is a 6.69-acre, mostly vacant parcel that contains the westernmost edge of the existing pavement that surrounds the primary Hale's garage building, as well as the western driveway connecting from Water Street. The applicant proposes significant additional pavement on this parcel, which is discussed in the "Vehicular and Pedestrian Circulation" section immediately below.

Hale's does not yet own VL-1 Marble Street and VL-8 Water Street. The applicant has submitted an attorneys letter stating that Hale's Bus Garage, LLC is in the process of closing on these two parcels. However, the applicant must still submit letters from the owners of those two parcels authorizing the applicant to apply for Site Plan Approval.

The site abuts five residential properties and a doggie day care to the east, all of which front on Eastern Boulevard. Marble Street Park and the City Hydroelectric Plant are directly across Marble Street from the subject parcels. Bimbo Bakeries and Rust Check of Watertown, both of which front on Water Street, share rear parcel boundaries with the subject parcels.

Vehicular and Pedestrian Circulation: There are two existing driveways connecting from Marble Street, one on the primary subject parcel at the east end of the site and one on VL-8 Water Street at the western end of the site. The applicant has submitted a Vehicular and Pedestrian Circulation Plan that depicts a City fire truck circumnavigating the building within the site.

Since the western driveway crosses the lands of VL-8 Water Street to access the primary structure on 1067 Marble Street, the applicant has two options for how to proceed after closing on VL-8 Water Street. The first option would be to assemble VL-8 Marble Street (or a section thereof containing the driveway) with 1067 Marble Street, by way of a new metes and bounds description filed with the County Clerk. Alternatively, if the applicant wishes to keep the parcels separate, the applicant must record an access easement, such that 1067 Marble Street enjoys the benefit of access across the lands of VL-8 Water Street in perpetuity. The applicant should consider including VL-1 Marble Street in any assemblage but is under no obligation to do so.

There is no existing sidewalk on Marble Street. Therefore while the City's Complete Streets Policy emphasizes pedestrian connectivity, it is impractical to require a pedestrian connection to the street. Additionally, while the Black River Trail extension to downtown Watertown is planned to parallel Marble Street, this land use does not benefit in any significant way from a connection with the trail.

Parking: The Neighborhood Mixed Use District allows a maximum of 16 parking spaces by right. The Planning Data table on the C104 drawing does not identify a number of existing parking spaces; only that "no new parking spaces are proposed." It is evident from a site visit that the primary subject parcel contains well over 16 parking spaces. While the excess spaces existed prior to the adoption of the current Zoning Ordinance, and therefore enjoy legal-nonconforming ("grandfathered") status, the applicant shall nonetheless provide a number in the Planning Data table, so that Staff can have that number on record when evaluating any potential future development on the site.

Comprehensive Plan: All the collective lands of the three subject parcels are in the Black River Waterfront future land use character area. The plan describes this future land use character area as follows:

"The Black River is the spine of Watertown and a core part of the City's identity. As the primary natural asset, it is the basis for economic development, education, recreation, and scenic beauty. The intention of this Character Area is to build on the setting of the river as a reinforcing asset to redevelopment. New development and redevelopment should be oriented around the river in all aspects of design, including preserving views, increased public access where feasible, and integrating green infrastructure or low impact development design (e.g., rain gardens, porous pavers, native plantings, etc.) to treat stormwater runoff before entering the river. Buildings should be placed on the site so that they do not obstruct the public's enjoyment of the river whether physically or visually. Open space should be integrated and developed for all users regardless of abilities."

Regarding consistency with the Comprehensive Plan, the automotive repair land use is <u>not what the plan envisions</u>. However, since this is an expansion of an existing building, the current land use is an existing condition. While this land use does not enhance the river in any way, its design and orientation do not obstruct any views of the river, nor does it detract from the public's enjoyment of the river in any way. It leaves sufficient open space in front of the primary building to maintain the quasi-rural feel of this section of Marble Street. Therefore, from a design perspective, <u>this proposal is in harmony with the Comprehensive Plan</u>.

Zoning: The proposed automotive repair use is an allowed use in the Neighborhood Mixed Use District with a Special Use Permit. However, since the use was legally established prior to the adoption of the current Zoning Ordinance (all three parcels were zoned Light Industry under the prior Zoning), the applicant does not need to obtain a Special Use Permit for this proposed expansion.

The applicant is seeking two Area Variances related to this site plan; one for relief from façade length restrictions and the other for reduced transparency. Per Section 310-21 of the Zoning Ordinance, which contains the form-based dimensions for each Zoning district, the Neighborhood Mixed Use District allows a maximum façade length of 60 linear feet and a minimum 50 percent transparency on the ground floor, front façade. The proposed façade length would be 337 linear feet and the proposed transparency would be only 5.7 percent.

The applicant has submitted both Area Variance requests to the Zoning Board of Appeals, which the ZBA heard at its November 15, 2023 meeting and tabled, pending the Planning Commission's completion of the SEQRA review, which is discussed in the "SEQR" section below. The ZBA will take both requests from the table at its December 20, 2023 meeting.

There are three other aspects of the site that enjoy legal nonconforming ("grandfathered") status pursuant to the dimensional requirements of the Neighborhood Mixed Use District. These include exceeding the 100' maximum lot width, exceeding the 900 SF accessory structure maximum footprint and exceeding the maximum of 25 linear feet of frontage unbuilt.

Landscaping: The applicant proposes to plant twelve new large maturing deciduous trees along the western edge of the paved area at an interval of one large tree every 40 feet to fulfill the exterior parking lot landscaping requirements of Section 310-83 of the Zoning Ordinance. However, while this proposal meets the spatial interval requirement, the Zoning Ordinance also requires that no single species make up more than 15 percent of a site's planting schedule. For a planting schedule of 12 trees, this yields a requirement of planting at least seven (7) different species to satisfy landscaping requirements.

Currently, the applicant only proposes three different tree species on the Landscaping Plan; *Acer rubrum* (red maple), *Celtis occidentalis* (hackberry), and *Lirodendron tulipifera* (tulip tree). The applicant shall work with Staff to select four (4) additional site-appropriate tree species to diversify the planting schedule as well as selecting the most optimal locations for each species.

Although Red Maple and Hackberry can tolerate varying degrees of soil compaction, Tuliptrees do not tolerate compacted soils well. In the submitted Landscaping Plan, the applicant identifies a Red Maple and Tuliptree immediately and adjacent to the retention pond. Although Red Maple generally displays a moderate tolerance to soil compaction, the applicant currently anticipates compaction levels up to or exceeding 90 percent for areas 25-to-35 feet west of the paved asphalt parking. 90 percent compaction is not suitable for planting trees. Although that level of compaction may be necessary to secure underground structures and to achieve proper grading, trees should be planted in areas that receive a maximum compaction rate of 80-to-85 percent. Therefore, Staff does not recommend planting trees within the limits of disturbance. Trees should be planted west of the silt fencing and outside all disturbed areas as shown on the proposed plans.

Selecting appropriate planting sites and species will significantly improve long-term survival rates, as well as minimize future costs associated with tree removal and replacement as required by the City's Zoning Ordinance. To assist the applicant in selecting compaction tolerant species, the City has provided the following abbreviated list of species exhibiting higher success rates when planted in and adjacent to compacted soil: *Acer rubrum, Celtis occidentalis, Gleditisia triacanthos var. inermis, Platanus x acerifolia* 'Exclamation', *Quercus bicolor, Quercus macrocarpa, Taxodium distichum, Tilia americana.*

The applicant shall work with Staff to select the most optimal locations for each species.

The applicant should also protect the existing 12", 20", and 24" diameter deciduous trees located on the east side of the western entrance drive and to avoid parking or storage of construction related equipment or materials. Staff recommends a minimum protection zone to the outer limits of the canopy whenever practical. The applicant shall be prepared to discuss this recommendation.

While the remainder of the parking lot does not meet the interior parking lot landscaping requirements of the Zoning Ordinance, this is an existing condition.

SEQR: This project is considered an Unlisted Action under the State Environmental Quality Review Act (SEQRA). The applicant has submitted a completed Part 1 of a Short Environmental Assessment Form (EAF). The Planning Commission, as Lead Agency, must complete Part 2 of the Short EAF.

Because this proposed action also requires two Area Variance, this requires a coordinated review with the Zoning Board of Appeals, which is an Involved Agency. It is also necessary for the SEQRA review to consider all facets (Site Plan and Variances) as a "whole action."

At its November 15, 2023 meeting, the ZBA adopted a motion stating that it has no objections to the Planning Commission designating itself as Lead Agency. The ZBA also communicated to Staff at that meeting that in its capacity as in Involved Agency, that it had no formal environmental comments to communicate to the Planning Commission regarding the SEQRA review.

The Planning Commission should complete Part 2 of the Short EAF and make its finding pursuant to SEQRA at its December 5, 2023 meeting so that the ZBA is free to vote on both Variances at its December 20, 2023 meeting.

The Planning Commission should then table the Site Plan Approval until its January 2024 meeting, pending the ZBA's decisions on the requested Area Variances. Even though it will not vote on the Site Plan Approval at its December 5, 2023 meeting, the Planning Commission should still thoroughly discuss the proposed site plan with the applicant and communicate any concerns at that time to give the applicant adequate time to make any revisions prior to the January Planning Commission meeting.

Stormwater and Drainage: The Engineering Department is satisfied with all proposed stormwater drainage as depicted on the Grading and Drainage Plan.

Lighting: The applicant submitted a Photometric Plan. Section 310-84 (C)(2) of the Zoning Ordinance requires that light trespass shall not exceed 0.5 footcandles at the property line. The Photometric Plan depicts up to 2.0 footcandles of spillage across the western property line onto VL-8 Water Street. This will not be an issue if the applicant chooses to assemble the properties after closing on VL-8. However, this will become an issue if they remain separate. The applicant shall be prepared to discuss the property owner's intentions for parcel assemblage and the implications of light spillage if the lines remain where they are. The Planning Commission is not able to approve a Site Plan that will result in permanent illegal light spillage.

Utilities: The applicant proposes a 2,000 gallon oil/water separator to the north of the building addition. The property owner shall be responsible for hiring a third party to perform annual inspections of this separator, including all records of pump-outs and maintenance and submitting an annual report to the City Engineering Department.

Using an oil/water separator will also require regular pump outs. If the applicant plans to dispose of the contents at the City's Wastewater Treatment Plant, they will need to apply for an Outside Source Permit from the City Water Department to do so.

Permits: The applicant must obtain the following permits and other documentation, minimally, prior to construction: Building Permit, Water Permit, Sanitary Sewer Permit, Storm Sewer Permit, a Zoning Compliance Certificate and potentially an Outside Source Permit.

Planning Commission Action: Due to the need for the applicant to obtain two Variances from the ZBA, Staff recommends that the Planning Commission table this application.

Summary: The following items should be discussed and/or resolved prior to resubmittal by the applicant:

- 1. Prior to a Planning Commission vote, Hale's Bus Garage, LLC shall either close on the properties at VL-1 Marble Street and VL-8 Water Street or submit a letter from the current property owners authorizing Hale's to apply for Site Plan Approval on their behalf.
- 2. The applicant shall assemble either assemble VL-8 Water Street, or a portion thereof containing the paved drive aisle, with 1067 Mable Street, by way of a new metes and bounds description filed with the County Clerk or record an access easement guaranteeing access across the lands of VL-8 Water Street to the parking area on 1067 Marble Street.
- 3. The applicant should strongly consider including VL-1 Water Street in any parcel assemblage.
- 4. The applicant shall add the existing number of parking spaces on the site to the Planning Data table.

- 5. The applicant must obtain an Area Variance from the Zoning Board of Appeals granting relief from the 60-foot maximum façade length restriction of the Neighborhood Mixed Use District.
- 6. The applicant must obtain an Area Variance from the Zoning Board of Appeals granting relief from the 50 percent ground floor, front façade transparency requirement of the Neighborhood Mixed Use District.
- 7. The applicant shall diversify the tree species in the planting schedule to a minimum of seven (7) distinct species so that no individual species makes up more than 15 percent of the planting schedule and work with Staff to identify and confirm appropriate species and locations.
- 8. The applicant should establish tree protection around the existing deciduous trees adjacent to the western entrance drive and avoid parking construction vehicles or storing equipment or materials within their canopies.
- 9. The applicant shall be prepared to discuss light spillage across property lines as it relates to the property owner's intentions for the three subject parcels. The Zoning Ordinance prohibits spillage of more than 0.5 footcandles across any property line.
- 10. The property owner shall hire a third party to perform annual inspections of the holding tank and submitting an annual report to the City Engineering Department.
- 11. The Planning Commission must complete Part 2 of the Short EAF and reach a determination pursuant to SEQRA.
- 12. The applicant must obtain the following permits and other documentation, minimally, prior to construction: Building Permit, Water Permit, Sanitary Sewer Permit, Storm Sewer Permit, a Zoning Compliance Certificate and potentially an Outside Source Permit.

cc: Thomas Maurer, Civil Engineer II

Meredith Griffin, Civil Engineer II

Mark Tompkins, Project Engineer, GYMO Architecture, Engineering and Land Surveying, D.P.C., 18969 U.S. Route 11, Watertown, NY 13601

Stephen Hale, Hale's Bus Garage, LLC, 37 Kirkland Avenue, Clinton, NY 13323



Above: A satellite view of the subject parcels and their surrounding lands

Site Photos



Above: A view of the existing front façade of the Hale's bus garage building on the site (looking east). **Below:** A view of the western end of the Hale's bus garage where the applicant proposes to construct the addition (looking north).





Above: A view of the western end of the paved area on the site in the foreground with the proposed footprint of the addition behind it and the existing Hale's bus garage in the background (looking northeast). **Below:** A reverse shot of the paved area at the western end of the site with Marble Street in the background (looking southwest).





Above: A view of the existing western façade of the Hale's bus garage building (looking east) The proposed building addition would bring the façade 50 feet closer to the camera.

Below: A view of the approximately 125' lawn area at the front of the site, taken from Marble Street (looking northeast).





November 14, 2023

Mr. Michael Lumbis
Planning & Community Development Director
City of Watertown
245 Washington Street
Watertown, NY 13601

Re: Site Plan Approval – Hale Transportation Building Addition

File: 2023-045

Dear Mr. Lumbis:

On behalf of Hale's Bus Garage, LLC ("Hale"), GYMO Architecture, Engineering, & Land Surveying, D.P.C. ("GYMO") is submitting for site plan approval for the Hale Transportation Building Addition Project.

The project entails the construction of a new +/- 4,500 SF shop addition on their existing facility located at 1067 Marble Street in the City of Watertown (tax parcel number 4-27-330.000). The shop addition will include four service bays, an employee restroom, and a janitor closet. The project will also include improvements to the existing roof drain system, improvements to the existing floor drain system and oil / water separator, improvements to the existing site lighting, replacement of existing overhead doors, adjustments to the existing pavement layout, and construction of a new stormwater management area.

Some work associated with the project is proposed to take place on the adjoining property, VL-8 (tax parcel 4-27-301.000). The VL-8 property is currently in the process of being sold to Hale by Robert C Freeman III. Please refer to the attached letter from the Hale attorney for more information on this sale.

Additionally, please note that Hale is requesting two variances from the Section 310-21 of the City of Watertown Zoning Ordinance Update; one variance to increase the maximum façade length from 60' to 337', and another variance to reduce the required front façade transparency for the building (including both the existing building and proposed addition) from 50% to 5.87%. It is Hale's intention to pursue both the area variances and Site Plan Approval concurrently.

GYMO is submitting eleven (11) collated sets of the following documents regarding the above mentioned project for Site Plan Approval.

- City of Watertown Site Plan Application;
- Letter Regarding Property Sale
- Engineering Report;
- Property Survey Drawing;
- Civil Drawings, (four 24"x36" sets and seven 11"x17" sets);
- Part 1 of Short EAF, and
- Minor Site Plan Application Fee

Patrick J. Scordo, PE Matthew J. Cervini, PE Scott W. Soules, AIA Brandy W. Lucas, MBA Gregory F. Ashley, PLS Peter S. Clough Kevin M. Bamann, PE Zachary P. Scordo

18969 US Route 11 Watertown, New York 13601

Tel: (315) 788-3900 Fax: (315) 788-0668

E-mail: web@gymodpc.com

Upon completion of your review, GYMO will provide final stamped drawings and plans. If you have any questions or require any additional information, please do not hesitate to contact our office at your earliest convenience.

Sincerely,

GYMO Architecture, Engineering, and Land Surveying, D.P.C.

Mark Tompkins Project Engineer

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Enclosure;

CC: Stephen Hale – Hale's Bus Garage

Philip Bond Jr. – Hale's Bus Garage

David Kleps – C2C

Geoff Urda – City of Watertown Matthew Cervini, PE – GYMO



City of Watertown SITE PLAN APPROVAL APPLICATION FORM

City of Watertown, Planning and Community Development Dept. 245 Washington Street, Room 305, Watertown, NY 13601 Phone: 315-785-7741 Email: planning@watertown-ny.gov

Receiv	ed:		

Please Note: The Site Plan Approval Application form is for projects where the building or parking area coverage of the lot will increase by more than 2,500 square feet.

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Please provide responses for all sections and submit all required materials as noted on Page 2. Failure to submit all requir submittal deadline may result in Staff not placing your request on the agenda for the upcoming Planning Board meeting.	ed informat
PROPERTY INFORMATION:	
PROPOSED PROJECT NAME: Hale Transportation Building Addition	
TAX PARCEL NUMBER: 4-27-330.000, 4-27-301.000	
PROPERTY ADDRESS: 1067 Marble Street, Watertown NY 13601	
ZONING DISTRICT: Neighborhood Mixed Use	
APPLICANT INFORMATION:	
NAME: Hale's Bus Garage, LLC (Contact Stephen Hale)	
ADDRESS: 1067 Marble Street	P
Watertown NY 13601	
PHONE NUMBER: 315-624-7407	1
E-MAIL ADDRESS: stephen@haletransportationgroup.com	
PROPERTY OWNER INFORMATION (if different from applicant): NAME:	
ADDRESS:	
PHONE NUMBER:E-MAIL ADDRESS:	
ENGINEER/ARCHITECT/LANDSCAPE ARCHITECT INFORMATION: NAME: GYMO Architecture, Engineering, & Land Surveying, D.P.C (Contact Matt Cervini)	
ADDRESS: 18969 US Route 11	
Watertown NY 13601	271
PHONE NUMBER: 315-788-3900	
PHONE NUMBER: 315-788-3900 E-MAIL ADDRESS: mcervini@gymodpc.com	

REQUIRED MATERIALS:

** The following drawings with the listed information <u>ARE REQUIRED, NOT OPTIONAL</u>. If the required information is not included and/or addressed, Planning Staff will not process the Site Plan Application.

All of the following drawings **must** be adequately dimensioned, including radii and must use darker line work and text for proposed features than for existing features.

- COVER LETTER: Must clearly and fully explain the proposed project in sufficient detail.
- BOUNDARY and TOPOGRAPHIC SURVEY: Depict existing features as of the date of the Site Plan Application. A Professional Land Surveyor licensed and currently registered to practice in the State of New York must perform the survey and create the map. At least one copy must contain the surveyor's original PLS wet stamp and an original signature. The rest may be copies thereof. The survey drawing must depict and label all of the following:
 - All existing features and utilities on and within 50 feet of the subject property
 - All existing property lines (bearings and distances), margins, acreage, zoning, easements, right-of-ways, existing land use, reputed owner, adjacent reputed owners and tax parcel numbers
 - One-foot contours are with appropriate spot elevations
 - North arrow and graphic scale
 - All elevations are North American Vertical Datum of 1988 (NAVD88).

DEMOLITION PLAN (if applicable)

- Depict and label all existing features on and within 50 feet of the subject property and (using darker text) all items proposed for demolition.
- SITE PLAN: The drawing must clearly label all proposed features as "proposed" and use darker line work and text for all proposed features than for existing features. It must also include a reference to the coordinate system used (NYS NAD83-CF preferred). In addition, the drawing must depict and label all of the following:
 - All proposed above ground features
 - All proposed easements and right-of-ways
 - Land use, zoning, and tax parcel number
 - Proposed parking and loading spaces, including all required ADA accessible spaces
 - Proposed snow storage areas
 - Refuse Enclosure Area (Dumpster), if applicable. Please note: Section 161-19.1 of the Zoning Ordinance states, "No
 refuse vehicle or refuse container shall be parked or placed within 15 feet of a party line without the written consent of the
 adjoining owner, if the owner occupies any part of the adjoining property."
 - North arrow and graphic scale

- GRADING PLAN: This drawing must depict and label all of the following:
 - All proposed below ground features, including elevations and inverts
 - All proposed above ground features, including easements and right-of-ways
 - One-foot existing contours (shown dashed and labeled with appropriate spot elevations)
 - One-foot proposed contours (shown and labeled with appropriate spot elevations)
 - Sediment and Erosion control, unless separate drawings are included as part of a Stormwater Pollution Prevention Plan (SWPPP).
 - All elevations are North American Vertical Datum of 1988 (NAVD88).
- UTILITY PLAN: This drawing must include a note stating, "All water main and service work must be coordinated with the City of Watertown Water Department. The Water Department requirements supersede all other plans and specifications provided." It must also depict and label all of the following:
 - All proposed <u>above and below</u> ground features
 - All existing above and belowground utilities, including water, sanitary water, stormwater, electric, gas, telephone, cable, fiber optic, etc.
 - All existing and proposed easements and right-of-ways.
- LANDSCAPING PLAN: This drawing must depict and label all of the following:
 - All proposed above ground features
 - All proposed trees, shrubs, other plantings and other proposed landscaping additions, keyed to a plant schedule that
 includes the scientific name, common name, size, quantity, etc. Please note: For additional landscaping requirements
 where nonresidential districts and land uses abut land in any residential district, please refer to Section 310-59,
 Landscaping of the City's Zoning Ordinance.
 - The Site Plan complies with and meets acceptable guidelines set forth in Appendix A Landscaping and Buffer Zone Guidelines (August 7, 2007).

☑ VEHICULAR AND PEDESTRIAN CIRCULATION PLAN

- Depict all vehicular and pedestrian traffic circulation, including a delivery or refuse vehicle and a City fire truck entering and exiting the property.
- Sidewalks within the City Right-of-Way must meet Public-Right-of-Way (PROWAG) standards.
- The Site Plan is consistent with and, wherever possible, incorporates principles set forth in Appendix B City of Watertown Complete Streets Policy (January 17, 2017).

PHOTOMETRIC PLAN (if applicable): This drawing must depict and label all of the following:

- All proposed above ground features
- Photometric spot elevations or labeled photometric contours of the property.
 Please note: Light spillage across all property lines shall not exceed 0.5 foot-candles.

CONSTRUCTION DETAILS and NOTES:

- Provide all details and notes necessary to complete the project including, but not limited to, landscaping, curbing, catch basins, manholes, water line, pavement, sidewalks, trench, lighting, trash enclosure, etc.
- Provide maintenance and protection and traffic plans and notes for all required work within City streets including driveways, water laterals, sanitary laterals, storm connections, etc.
- The drawings must include the following note: "All work to be performed within the City of Watertown margin will require sign-off from a Professional Engineer, licensed and currently registered to practice in the State of New York, that the work was built according to the approved site plan and applicable City of Watertown standards. Compaction testing will be required for all work to be performed within the City of Watertown margin and must be submitted to the City of Watertown Codes Department."
- PRELIMINARY ARCHITECTUAL PLANS (if applicable): These plans must include all of the following for proposed buildings: Floor plan drawings, including finished floor elevations, exterior elevations including exterior materials and colors, as well as roof outlines depicting shape, slope and direction.

☑ ENGINEERING REPORT

- ** The engineering report at a minimum must include the following:
- Project location and description
- Existing and proposed sanitary sewer flows and summary
- Water flows and pressure
- Storm Water Pre and Post Construction calculations and summary
- Traffic impacts
- Lighting summary
- Landscaping summary
- COMPLETED SEQR ENVIRONMENTAL ASSESSMENT FORM: (Contact us if you need help choosing between the Short EAF and the Full EAF). The Complete EAF is available online at: http://www.dec.ny.gov/permits/6191.html

☑ GENERAL INFORMATION

- All items must include a valid stamp and an <u>original</u> signature by a Professional Engineer, Architect, Landscape Architect, or Surveyor licensed and currently registered to practice in the State of New York.
- If required, submit a copy of the Stormwater Pollution Prevention Plan (SWPPP) to the City of Watertown Engineering Department for review to obtain an MS4 SWPPP Acceptance Form.

Post Construction SWPPP Requirements to Complete:

In accordance with City Code Section 260, provide the following:

- Submit a detailed as-built topographic and boundary survey of the site with all stormwater practices.
- Perform and submit results of insitu infiltration testing, updated drainage area maps and hydraulic calculations in a comprehensive Engineering Report based on As-Built Conditions.
- Submit a detailed post construction Maintenance Plan for all Stormwater Management Practices (SMP's) and provide a
 Maintenance Agreement with irrevocable letter of credit for approval. Maintenance Agreement shall be filed at the County
 Clerk's Office as a deed restriction on the property.
- ** If required, a copy of all submittals sent to the New York State Department of Environmental Conservation (NYSDEC) for the sanitary sewer extension permit will also be sent to the City of Watertown Engineering Department.
- ** If required, a copy of all submittals sent to the New York State Department of Health (NYSDOH) will also be sent to the City of Watertown Engineering Department.
- ** When NYSDEC or NYSDOH permitting is required, the property owner/applicant shall retain a licensed Professional Engineer to perform inspections of the proposed utility work and to certify the completed works were constructed in substantial conformance with the approved plans and specifications.**
- Signage is not approved as part of this submission. It requires a Sign Permit from the City Code Enforcement Bureau.
 See Section 310-52.2 of the Zoning Ordinance.
- For non-residential uses, the applicant must include the proposed Hours of Operation.

OPTIONAL MATERIALS:

PROVIDE AN ELECTRONIC (.DWG) COPY OF THE SITE PLAN WITH AS-BUILT REVISIONS. keeping our GIS mapping up-to-date.	This will assist the City in
 keeping our GIS mapping up-to-date.	This will assist the City

SUBMITTAL INSTRUCTIONS:	
Submit 10 complete collated sets of all required materials, addressed to:	
Michael A. Lumbis, Planning and Community Development Director City of Watertown 245 Washington Street, Room 305 Watertown, NY 13601	
If the application requires Jefferson County Planning Board review, then the will inform the applicant if this is necessary.	applicant must submit 11 "sets." Planning Staff
Submissions must be collated and properly folded.	
If the applicant is not the property owner, the submission must include a signatu authorizing the applicant to apply on behalf of the owner.	re authorization form or letter signed by the owner
For any item(s) not checked in the Site Plan Approval Checklist, attach an expla	
Provide an electronic copy of the entire submission in the form of a single, comb cover letter, plans, reports, and all submitted material.	oined PDF file of the entire application, including
Submit the required Application Fee	
\$150 for Site Plan Minor	
\$250 for Site Plan Major (any proposal to disturb more than 1 acre represents a	a Site Plan Major)
SIGNATURE	
I certify that the information provided above is true to the best of my knowledge.	
Applicant's name (please print) Hale's Bus Garage, LLC (Contact Stephen Hale)	e)
Applicant's Signature Stychen & Hale	Date:
Meeting Information: The Planning Board normally meets at 6:00 p.m. of Chambers at City Hall, 245 Washington Street. The application deadline Planning Board action does not represent final approval, as the Planning Council, which holds the sole authority to grant Site Plan Approval.	Board only votes to make a recommendation to City
Occasionally, due to holidays or other reasons, meetings may occur on o	ther dates and/or times. The City will announce any planning Staff strongly recommends

changes to meeting dates in advance on its website at www.watertown-ny.gov. Planning Staff strongly recommends scheduling a pre-application meeting prior to submitting a Site Plan Application. The entire site plan application process typically takes four-to-six weeks, depending on whether the application requires Jefferson County Planning Board review.



18969 US Route 11 Watertown, New York 13601

Tel: (315) 788-3900

E-mail: web@gymodpc.com

HALE TRANSPORTATION BUILDING ADDITON

1067 MARBLE STREET CITY OF WATERTOWN JEFFERSON COUNTY

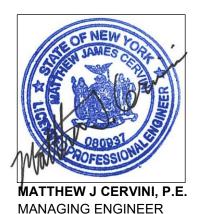
ENGINEERING REPORT

HALE TRANSPORTATION **BUILDING ADDITON**

PREPARED FOR:

HALE'S BUS GARAGE LLC 1067 MARBLE STREET WATERTOWN, NY 13601 CONTACT PERSON: MR. STEPHEN HALE PH#: (315)-624-7407

1067 MARBLE STREET CITY OF WATERTOWN JEFFERSON COUNTY



The above Engineer states that to the best of his knowledge, information and belief, the plans and specifications are in accordance with the applicable requirements of New York State. It is a violation of New York State Law for any person, unless acting under the direction of a licensed professional engineer to alter this document in any way. If altered, such licensee shall affix his or her seal and the notation "altered by " followed by his or her signature, date, and a specific description of alteration

ENGINEERING REPORT
Job # 2023-045
Date: 11-14-2023



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- Civil and Architectural Plan Sheets
- Existing Drainage Areas MapProposed Drainage Areas Map

Appendix B: Storm Water Calculations

- Stormwater Quality Calculations
- Stormwater Quantity Calculations

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- ITE Trip Generation

1.0 PROJECT DESCRIPTION AND LOCATION

Hale's Bus Garage, LLC ("Hale") is proposing to construct a new +/- 4,500 SF shop addition on their existing facility located at 1067 Marble Street in the City of Watertown. The shop addition will include four service bays, an employee restroom, and a janitor closet. The project will also include improvements to the existing roof drain system, improvements to the existing floor drain system and oil / water separator, improvements to the existing site lighting, replacement of existing overhead doors, adjustments to the existing pavement layout, and construction of a new stormwater management area, as well as other related site improvements.

The existing properties are located at tax parcel numbers 4-27-330.000 (1067 Marble Street) and 4-27-301.000 (VL-8). The two properties directly adjoin each other. The 1067 Marble Street property is currently owned by Hale, and the VL-8 property is currently in the process of being sold to Hale by Robert C Freeman III. The 1067 Marble Street property contains the existing Hale's Bus Garage facility, and the VL-8 property is largely undeveloped, however it does contain a driveway and some pavement areas that serve the existing Hale facility. A portion of the existing asphalt and driveway areas on each property will be demolished and rebuilt to accommodate the new shop addition and associated site amenities. Refer to Existing Conditions Plan C101 in Appendix A for further information on existing site features.

The two properties are located within the Neighborhood Mixed Use District of the City of Watertown Zoning. The use of the shop addition will be consistent with the use of the existing facility, which is currently being used as an auto repair shop in the Neighborhood Mixed Use District.

2.0 EXISTING AND PROPOSED SANITARY SEWER FACILITIES

2.1 Existing Sanitary Sewer Facilities

The existing facility utilizes an existing onsite subsurface sewage disposal system for disposal of sanitary waste generated on site. The system was located by GYMO using Ground Penetrating Radar in September of 2023, and appears to consist of a septic tank, distribution box, and (4) 46' long absorption trenches. Percolation tests were performed near the leach field by GYMO in November of 2023, which showed that the percolation rate of the onsite soils is 42 minutes per inch (MPI). See Existing Conditions Plan C101 in Appendix A for additional information on percolation testing. Per the NYSDEC New York State Design Standards for Intermediate Sized Wastewater Treatment Systems, this results in a design application rate of 0.50 Gal./SF/day. Therefore, the capacity of the existing system should be 184 Gal./day.

(4 trenches) * (2' wide trench) * (46' long trench) * (0.50 Gal./SF/Day) = 184 Gal./Day

Floor drains from the existing facility currently drain to an existing oil/water separator located in the proposed shop addition area. There is an outlet pipe in the oil/water separator that goes to an unknown location.

2.2 Proposed Sanitary Sewer Facilities

Proposed sanitary sewer flows for the expanded facility were calculated based on guidelines in the NYSDEC Design Standards For Intermediate Sized Wastewater Treatment Systems and input from Hale. These calculations are provided in the table below.

Hale's Transportation Building Addition Project Number: 2023-045

Proposed Sanitary Flows				
Usage	Demand	Units	Total	
Employee	15 GPD/employee*	6**	90 GPD	
Bus Lavatories	5 Gallon / Bus**	5**	25 GPD	
TOTAL: 115 GPD				
*Based on NYSDEC Design Standards for Intermediate Sized Wastewater Treatment Systems				

As seen in the table above, the proposed sanitary flows for the expanded facility are within the capacity of the existing system. Therefore, no modifications to the existing leach field or construction of new sanitary treatment facilities are proposed. However, the existing septic tank will be pumped as a part of this project to help maximize the life of the existing

A grinder pump station is proposed to be installed in the floor of the proposed employee bathroom, and overhead piping routed through the existing facility will convey wastewater to the existing gravity piping that goes to the existing septic tank. Also proposed as part of this project is the construction of a new waste dump station for emptying wastewater tanks on coach buses. Refer to the Overall Mechanical Plan M1 in Appendix A for more information.

The existing oil/water separator discussed in Section 2.1 is proposed to be removed to allow for the foundation for the addition to be constructed. A new 2,000-gallon oil/water separator with no outlet is proposed to be installed north of the proposed shop addition. The tank will act as a holding tank for now, however, in the future the proper outlet tee could be installed so that the tank would act as an oil/water separator and the water could be conveyed to the municipal sanitary system. A high-level alarm will be provided to alert the facility personnel that the tank is reaching its capacity and will need to be pumped.

3.0 EXISTING AND PROPOSED WATER FACILTIES

**Based on information provided by Hale

The existing Hale facility is currently served by municipal water. No new water service facilities are proposed.

4.0 HYDROLOGIC AND HYDRAULIC ANALYSES

4.1 Existing Drainage

system.

The project site encompasses portions of both the 1067 Marble Street property and VL-8 property. The site currently contains the existing Hale's Transportation building, with associated asphalt drive lanes / parking areas, and lawn areas. Stormwater from the existing building is currently collected by a system of roof drains, which drain the water onto the southern driveway area, which sheet flows across the pavement and goes towards Marble Street. The existing building is a relatively high point on the site, and stormwater generally sheet flows away from the building across pavement areas and lawn areas and is eventually conveyed to a shallow drainage swale on the north side of Marble Street. For additional information, refer to the Existing Drainage Areas Map in Appendix A.

4.2 Proposed Drainage

Because the proposed project will disturb less than 1 acre, a SWPPP is not required and will not be prepared. Consistent with City of Watertown requirements, the project will address stormwater quality and quantity requirements in accordance with NYSDEC SPDES Permit requirements.

Hale's Transportation Building Addition Project Number: 2023-045

Proposed drainage for the site consists of a new roof collection and conveyance system, drainage manholes, HDPE stormwater gravity piping, a dry swale, and a stormwater quantity pond with a riser structure. The piping will be sized to carry, at a minimum, the peak runoff from the 100-year 24-hour storm event.

Drainage patterns for the proposed site conditions largely mimic the existing drainage patterns, except that water from the roof of the existing building and proposed shop addition will now be piped to the proposed stormwater quantity pond for flow attenuation rather than sheet flowing across the driveway areas. The existing building and proposed addition will continue to be a relative high point on the site and induce sheet flow of stormwater away from the building and towards the edges of the asphalt areas. A dry swale along the western edge of the pavement will collect the stormwater runoff and convey the water to the proposed quantity pond. Erosion and sediment impacts on surrounding sites will be minimized through the proper implementation and maintenance of Best Management Practices (BMP's) during and after construction. For more information, see the Proposed Drainage Area Map and Civil Drawings in Appendix A.

4.3 Proposed Storm Water Quantity Management

In accordance with SPDES requirements, there will be no increase of the peak runoff from existing to proposed conditions of the 1, 10, and 100-year 24-hour storm events. The project proposes a modest increase in impervious area within the area of disturbance (a net increase of $\pm 1,750$ SF). Hydrologic calculations were performed to assess the existing and proposed hydrologic conditions at three design points, and a stormwater quantity pond was designed to attenuate flows to pre-existing conditions. See the attached Civil Plans for more information on the design of the stormwater quantity pond. For storm water calculations, refer to Appendix B. See below table for existing and anticipated post-development 1, 10, and 100-year peak flow rates from the new development at each design point, and the overall site.

Design Point 1 – Offsite to South (Towards Marble Street)					
Storm Event	Storm Event Existing Flows (CFS) Proposed Flows (CFS)				
1-yr	3.66	1.59			
10-yr	6.28	2.74			
100-yr	10.35	4.53			

Design Point 2 – Offsite to West					
Storm Event	Storm Event Existing Flows (CFS) Proposed Flows (CFS)				
1-yr	1.92	1.82			
10-yr	3.25	3.22			
100-yr	5.34	5.23			

Design Point 3 – Offsite to North					
Storm Event	Storm Event Existing Flows (CFS) Proposed Flows (CFS)				
1-yr	0.45	0.07			
10-yr	0.80	0.13			
100-yr	1.34	0.22			

Overall Stormwater Flows				
Storm Event Existing Flows (CFS) Proposed Flows (CFS)				
1-yr	5.00	3.07		
10-yr	8.61	5.10		
100-yr	14.22	8.17		

Hale's Transportation Building Addition Project Number: 2023-045

4.4 Proposed Storm Water Quality Management

The project involves both the redevelopment of existing impervious areas, as well as the creation of new impervious areas. The stormwater management objective is to provide water quality treatment for 100% of the newly created impervious areas, and for 25% of the total disturbed existing impervious area. Per the NYS Stormwater Design manual, Runoff Reduction Volume (RRv) criteria apply for newly constructed impervious areas only, and is not applicable for redeveloped impervious areas. Therefore, the goal is to reduce 100% of the WQv from new impervious areas using RRv techniques. These Water Quality Treatment goals will be accomplished through the use of a dry swale with an underdrain along the western edge of the parking lot. For storm water quality calculations, refer to Appendix B. Summary tables of the required and provided WQv and RRv for the site are provided below.

Required Water Quality Treatment					
Drainage Area	Impervious Area (ac)	Required WQv (ac-ft)	Required RRv (ac-ft)		
Redevelopment	0.48	0.009	N/A		
New Impervious	0.04	0.003	0.003		
Total	0.52	0.012	0.003		

Provided Water Quality Treatment				
WQV Providing Practice	Impervious Area (ac)	Provided WQv (ac-ft)	Provided RRv (ac-ft)	
Dry Swale with Underdrain	0.26	0.019	0.004	
Total 0.26 0.019 0.004				

5.0 TRAFFIC IMPACTS

According to the ITE Trip Generation Rates -8^{th} edition, the traffic for the proposed shop addition can be estimated with the "Automobile Care Center" usage. The below table shows how the peak hour of traffic was calculated. For more information on this, see the ITE trip generation sheet in Appendix C.

ITE TRIP GENERATION RATES			
Usage	Units	Peak Hour	Cumulative Total
Automobile Care Center	4 Service Bays	9 Trips	50 Trips

Based on the ITE trip generation rates, the proposed shop addition will have an expected peak hour of 9 trips, or 1 trip every 6.67 minutes (60/9 = 6.67). The shop addition is only projected to generate a total of 50 trips throughout the day, and therefore, it is our opinion that the proposed development will not have a significant impact on existing traffic.

No new parking spaces are proposed as a part of the project.

6.0 LIGHTING AND LANDSCAPING

6.1 Lighting

Lighting for the site will be provided by building mounted LED fixtures along the perimeter of the existing building and proposed shop addition. Light fixtures have been selected to meet City of Watertown Lighting standards. Refer to the Utility Plan and Photometrics Plan in Appendix A for additional information.

6.2 Landscaping

Any space in the project site that was not utilized as part of the shop addition or driveway was reclaimed as green space or landscaping areas. Landscaping is proposed along the western edge of the pavement and driveway. Landscaping will be consistent with City of Watertown zoning requirements. Refer to the Landscaping Plan in Appendix A for further information on planting species and locations.

7.0 SUMMARY

The proposed shop addition and associated site improvements are not anticipated to have an adverse effect on the environment. The overall impervious coverage of the two subject properties will only be modestly increased, and storm water runoff generated from the new development will discharge at a rate less than existing levels. The proposed shop addition and site improvements would create an additional 4 service bays Hale, allowing the facility to better serve the Watertown area.

Matthew J. Cervini, P.E.

Managing Engineer

Mark Tompkins **Project Engineer**

APPENDIX A: PLANS

HALE TRANSPORTATION BUILDING ADDITION



1067 MARBLE STREET, WATERTOWN NY, 13601 CITY OF WATERTOWN, JEFFERSON COUNTY, STATE OF NEW YORK DATED: NOVEMBER 14, 2023

SITE PLAN REVIEW

PREPARED BY: GYMO ARCHITECTURE, ENGINEERING & LAND SURVEYING, DPC 18969 US ROUTE 11 WATERTOWN, NY 13601

INDEX OF DRAWING

CIVIL ENGINEERING SHEETS

COVER SHEET

G001 - GENERAL NOTES AND ABBREVIATIONS

C101 - EXISTING CONDITIONS PLAN

C102 - EROSION AND SEDIMENT CONTROL PLAN

C103 - DEMOLITION PLAN

C104 - SITE PLAN

C105 - UTILITY PLAN C106 - GRADING AND DRAINAGE PLAN

C107 - LANDSCAPING PLAN

C108 - PHOTOMETRICS PLAN

C109 - VEHICULAR AND PEDESTRIAN CIRCULATION PLAN

C501 - DETAILS C502 - DETAILS

C503 - DETAILS

ARCHITECTURAL SHEETS

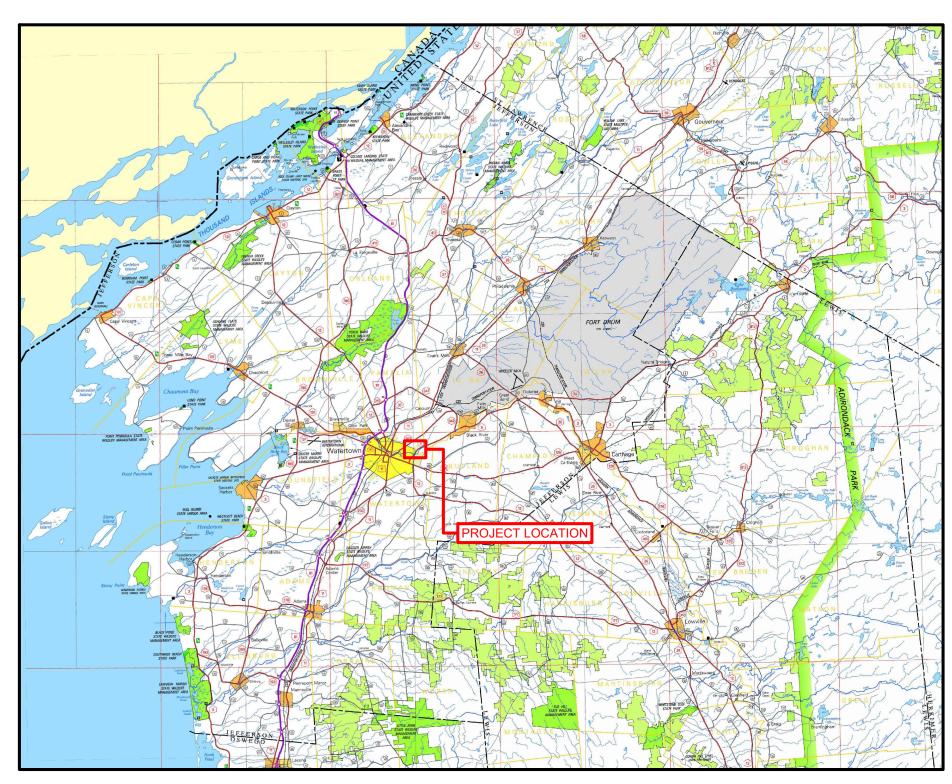
A-1 - LAYOUT PLAN

A-2 - OVERALL PLAN

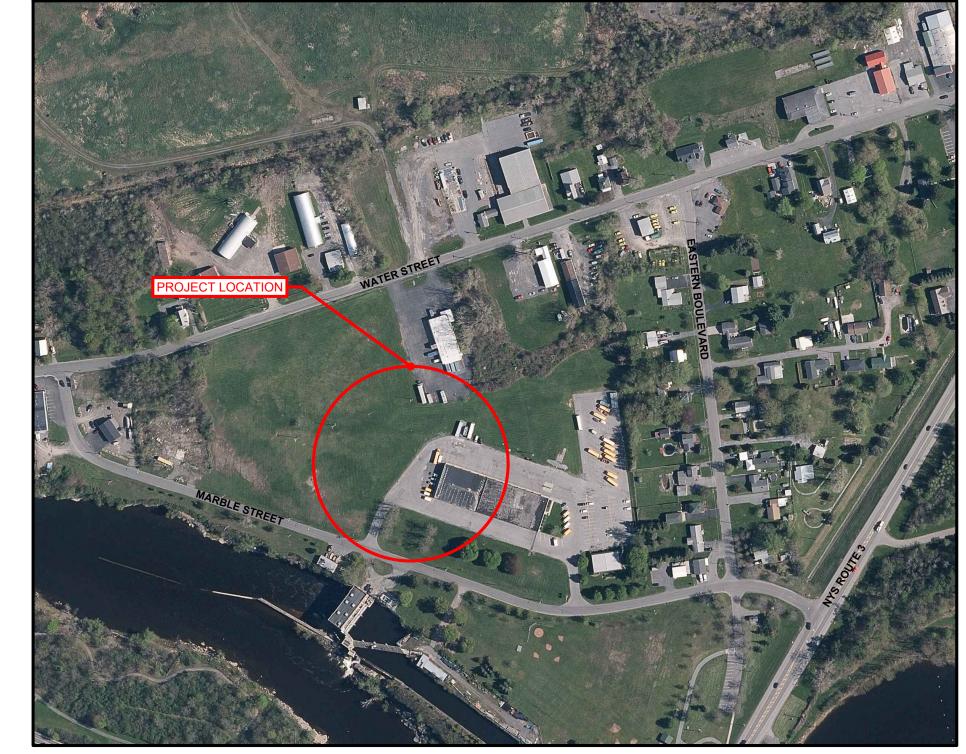
A-3 - EXTERIOR ELEVATIONS

E-1 - OVERALL ELECTRICAL PLAN

M-1 - OVERALL MECHANICAL PLAN



VICINITY MAP - JEFFERSON COUNTY



LOCATION MAP

PREPARED BY:

Architecture

Engineering

WWW.GYMODPC.COM 18969 US Route 11 Watertown, NY 13601

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PREPARED FOR:

TRANSPORTATION HALE TRANSPORTATION - HALE'S BUS GARAGE, LLC

1067 MARBLE STREET WATERTOWN, NY 13601 CONTACT:

MR. STEPHEN HALE PHONE: (315) 624-7407



FOR APPROVALS ONLY **NOT FOR CONSTRUCTIO**

GENERAL CONSTRUCTION NOTES:

- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. PRIOR TO CONSTRUCTION CONTACT UNDERGROUND UTILITIES CALL CENTER OF NEW YORK FOR EXACT LOCATION OF ALL UNDERGROUND UTILITIES, (1-800-962-7962). CONTRACTOR IS RESPONSIBLE FOR LOCATING AND WORKING WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- THE TOPOGRAPHIC AND PLANIMETRIC SURVEY WAS PERFORMED BY GYMO, DPC IN SEPTEMBER OF 2023.
- PARCEL BOUNDARIES ARE BASED ON A SURVEY PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C.. FIELD WORK AND SURVEY WERE COMPLETED IN JUNE AND JULY OF 2019.
- ALL OUT-OF-SCOPE AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS WILL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THAT PRIOR TO CONSTRUCTION. OUTSIDE OF PROPERTY BOUNDARIES AND EASEMENT AREAS THE CONTRACTOR IS REMINDED TO OBTAIN WRITTEN AUTHORIZATION TO USE PRIVATE PROPERTY AND ASSUMES ALL LIABILITY WHEN ACCESSING THOSE PROPERTIES.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE CAUSED BY HIS OPERATIONS TO EXISTING FACILITIES. ALL DAMAGE TO THE EXISTING FACILITIES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, AT NO ADDITIONAL
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CHARACTERISTICS AND EXTENT OF SUBSURFACE SOILS, ROCK, WATER TABLE LEVELS, ETC., PRIOR TO BIDDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, SECURITY, BONDS, FEES, AND PAYMENTS TO OBTAIN SAID PERMITS WHERE
- WHEN THE PERFORMANCE OF THE CONTRACTOR'S WORK REQUIRES THE INTERRUPTION OF UTILITY SERVICES, HE/SHE SHALL ISSUE A 48 HOUR PRIOR NOTICE TO THE GOVERNING MUNICIPALITY.
- 9. A SWPPP PLAN IS NOT NECESSARY FOR THIS PROJECT
- 10. SITE CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROL AND DUST CONTROL
- 11. UPON COMPLETION OF ESTABLISHMENT OF VEGETATION, ALL AREAS RECEIVING RUNOFF FROM THIS SITE SHALL BE CLEANED OF DEBRIS. ONLY AT THIS TIME SHALL THE EROSION AND SEDIMENTATION CONTROL MEASURES BE REMOVED.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT ALL LOCAL ROADS, DRIVEWAYS, INTERSECTIONS, PARKING LOTS, AND ADJOINING PROPERTIES ARE CLEAR OF DEBRIS AND MUD ON A DAILY BASIS DURING THE ENTIRE CONSTRUCTION PROCESS.
- 13. A LICENSED LAND SURVEYOR SHALL BE RETAINED FOR ALL UTILITY AND FIELD STAKEOUT AND AS-BUILTS AT THE CONTRACTORS EXPENSE.
- 14. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION UNTIL ESTABLISHMENT OF VEGETATIVE COVER. RUN-OFF CONTAINING SEDIMENTS FROM DISTURBED AREAS OF THE SITE SHALL NOT BE ALLOWED DIRECTLY OFF SITE OR INTO NATURAL STREAM CHANNELS.
- 15. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. CONSTRUCTION ACTIVITIES ADJACENT TO TREES SHALL BE CONDUCTED TO REDUCE THE IMPACT TO TREES TO THE MAXIMUM EXTENT PRACTICAL. ANY DAMAGE TO EXISTING TREES SHALL BE REPAIRED OR THE TREE REPLACED, AS DIRECTED BY THE OWNER AT THE CONTRACTORS EXPENSE.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING, GRUBBING, CUTTING AND DISPOSING OF VEGETATION, TREES AND DEBRIS IN A NYSDEC ACCEPTABLE LOCATION.
- 17. DISPOSAL OF ALL CONSTRUCTION DEMOLITION DEBRIS SHALL BE IN ACCORDANCE WITH THE LOCAL CODES AND 6 NYS CRR PART 360, PLUS OTHER APPLICABLE CODES. DISPOSAL SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 18. CONTRACTOR SHALL PERFORM ALL NECESSARY EARTHWORK, INCLUDING THE STRIPPING, STOCKPILING AND REPLACING OF TOPSOIL IN ACCORDANCE WITH THE PLANS. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
- 19. EXCAVATIONS SHALL BE TO DEPTHS SHOWN ON DRAWINGS. ALL UNSTABLE OR UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REMOVED TO SUCH DEPTH AS REQUIRED TO PROVIDE SUFFICIENT BEARING CAPACITY. OVER-EXCAVATED AREAS SHALL BE BACKFILLED WITH SUITABLE MATERIAL.
- 20. COMPACTION OF PIPE BEDDING AND BACKFILL MATERIAL SHALL BE BY MEANS OF HAND-GUIDED POWER DRIVEN OR DRUM-TYPE OR PLATE TAMPERS. BACKFILLING SHOULD PROCEED IN ACCORDANCE WITH LIFT THICKNESS AND COMPACTION REQUIREMENTS AS SHOWN ON THE DRAWINGS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, COMPACTION REQUIREMENTS REFER TO PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM STANDARD D - 1557 MODIFIED PROCTOR. CARE SHALL BE TAKEN TO SHAPE PIPE BEDDING TO FIT THE LOWER PART OF THE PIPE. BACKFILLING AND COMPACTION SHOULD PROGRESS EVENLY ALONG THE PIPE SIDEWALLS AND TO THE TOP OF THE PIPE BEDDING.
- . COMPACTION SHALL BE 90% MAXIMUM DRY DENSITY IN GRASS AREAS, 95% MAXIMUM DRY DENSITY IN TRAFFIC AREAS, AND 98% MAXIMUM DRY DENSITY UNDER AND AROUND STRUCTURES. MAXIMUM DRY DENSITY SHALL BE AS DETERMINED BY ASTM - D1557 MODIFIED PROCTOR. THE CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING AGENCY TO PERFORM TESTING AND PROVIDE THE RESULTS TO THE OWNER FOR REVIEW PRIOR TO FINAL PAYMENT.
- 22. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OF DIMENSIONS, ELEVATIONS AND LOCATIONS DURING PRECONSTRUCTION FIELD VERIFICATION, SUCH INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR VERIFICATION OR MODIFICATION OF THE
- 23. THE CONTRACTOR SHALL DELIVER TO THE OWNER, AN AS-BUILT SURVEY, SIGNED AND SEALED BY A LAND SURVEYOR OR ENGINEER LICENSED IN THE STATE OF NEW YORK. AS-BUILT RECORD DRAWINGS SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING INFORMATION AS WELL AS ALL REQUIREMENTS OF THE SPECIFICATION:
- RECORD OF ALL UTILITIES ENCOUNTERED IN TRENCH EXCAVATION. INFORMATION SHALL INCLUDE DIAMETER OF UTILITY, DEPTH OF BURIAL AND LOCATION WITH REFERENCE TO NEAREST STRUCTURE SHOWN ON DRAWINGS. THIS INFORMATION SHALL BE KEPT CURRENT ON A WEEKLY BASIS.
- FAILURE TO DO SO MAY RESULT IN WITHHOLDING OF PAYMENTS. DISTANCE TIES TO ALL BENDS, VALVES, CORPORATION STOPS, WYES, MANHOLES, CLEAN OUTS, CATCH BASINS, ETC.
- UTILITY REPAIRS, SIDEWALK, AND DRIVEWAY REPLACEMENTS CENTERLINE.
- RIM AND INVERT ELEVATIONS AND HORIZONTAL LOCATION OF MANHOLES, CATCH BASINS, AND CLEANOUTS.
- STATIONS OF BENDS AND VALVES. FINAL GRADE ELEVATIONS TO NEAREST 0.1-FOOT AND FINISHED FLOOR ELEVATIONS.
- DENOTED BENCH MARK REFERENCES USED. PERIODIC OFFSETS
- NOTATION FROM THE ENGINEER OR SURVEYOR THAT THE GRADES ARE IN CONFORMANACE WITH THE SITE PLANS. RECORD DETAILS NOT SHOWN ON THE ORIGINAL CONTRACT DOCUMENTS. ANY FIELD CHANGES OF DIMENSIONS AND DETAILS AND ANY CHANGES MADE
- BY CHANGE ORDER OR FIELD ORDER.

OCCURRING SIMULTANEOUSLY IN THE VICINITY OF THE SITE.

- CERTIFICATE OF SUBSTANTIAL COMPLETION SHALL NOT BE ISSUED UNTIL AS-BUILT INFORMATION IS ACCEPTABLE.
- CONTRACTOR SHALL FURNISH AS-BUILT DATA ON PLAN SHEETS CONTRACTOR SHALL PROVIDE A PDF COPY OF THE FINAL COMPLETE RECORD DRAWINGS
- 24. CONTRACTOR SHALL PROVIDE SATISFACTORY DEWATERING AND DRAINAGE OF EXCAVATIONS. SEE DEWATERING AND DRAINAGE IN THE TECHNICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION.
- 25. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION OPERATIONS WITH ANY AND ALL OTHER CONSTRUCTION ACTIVITIES WHICH MAY BE
- 26. EXCAVATIONS AND TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH STATE OF NEW YORK INDUSTRIAL CODE, RULE 23, O.S.H.A. TITLE 29, PART 1926, NEW YORK STATE DEPARTMENT OF LABOR, TITLE 12, PART 23, AND ALL OTHER APPLICABLE SAFETY STANDARDS AND CODES.
- 27. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF AND TO CONFORM WITH ALL RULES AND RESPONSIBILITIES ASSOCIATED WITH PROVIDING A SAFE WORK PLACE. THE CONTRACTOR MUST COMPLY WITH OSHA 29 CFR PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.
- 28. THE CONTRACTOR SHALL POST WARNING SIGNS AT ALL APPROACHES TO THE PROJECT AND AT CONSTRUCTION ENTRANCES. THE CONTRACTOR TO
- PROVIDE FLAGMEN WHEN NECESSARY.
- 29. ALL R.O.W. CONNECTION AND/OR ADJACENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH NYSDOT STANDARDS AND SPECIFICATIONS. ALL R.O.W. WORK SHALL BE IN ACCORDANCE WITH NYSDOT WORK ZONE TRAFFIC CONTROL REGULATIONS, INCLUDING FLAGMEN, BARRICADES, WARNING SIGNS/LIGHTS, ETC., WHERE WARRANTED.
- 30. PAVED AREAS WILL BE SAWCUT PRIOR TO EXCAVATION AND PAVING OPERATIONS. SAWCUT AREAS WILL BE TACK COATED PRIOR TO PAVING. TACK COAT SHALL MEET THE REQUIREMENTS OF ASPHALT EMULSION FOR TACK COAT, NYSDOT TABLE 702-7.
- 31. SURCHARGE LOADS FROM EXCAVATED MATERIAL, BACKFILL MATERIAL, EQUIPMENT, TRAFFIC LOADING ETC., MUST BE KEPT AWAY A DISTANCE EQUAL TO THE DEPTH OF EXCAVATION.
- 32. TRAFFIC OFFSET SHALL BE MAINTAINED AT A MINIMUM OF TEN FEET FROM ANY OPEN EXCAVATION TO AVOID UNWANTED SURCHARGE LOADS.
- 33. THE CONTRACT DOCUMENTS ALWAYS SUPERCEDE SUBMITTALS, SHOP DRAWINGS, OR ANY "OTHER" DOCUMENTS UNLESS INDICATED OTHERWISE BY THE ENGINEER. IN THE EVENT OF "OTHER" DOCUMENTS CONFLICTING WITH THE CONTRACT DOCUMENTS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING IT TO THE ATTENTION OF THE ENGINEER AS SOON AS IT IS DISCOVERED.
- 34. THE DETAIL PLANS AND SPECIFICATIONS FOR THE CONTRACT HAVE BEEN PREPARED WITH CARE AND ARE INTENDED TO SHOW AS CLEARLY AS IS PRACTICABLE THE WORK REQUIRED TO BE DONE. THE CONTRACTOR MUST REALIZE, HOWEVER, THAT CONSTRUCTION DETAILS CAN NOT ALWAYS BE ACCURATELY ANTICIPATED AND THAT IN EXECUTING THE WORK. FIELD CONDITIONS MAY REQUIRE REASONABLE MODIFICATIONS IN THE DETAILS OF PLANS AND QUANTITIES OF WORK INVOLVED. WORK UNDER ALL ITEMS IN THE CONTRACT MUST BE CARRIED OUT TO MEET THESE FIELD CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND IN ACCORDANCE WITH HIS INSTRUCTIONS AND THE CONTRACT SPECIFICATIONS
- 35. THE PRESENCE OF HAZARDOUS MATERIALS SHALL BE BROUGHT TO THE ENGINEERS OR OWNERS IMMEDIATE ATTENTION.
- 36. THE CONTRACTOR SHOULD NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES WHICH IS NOT SHOWN OR NOTED ON PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR ONLY AFTER BEING AUTHORIZED BY THE OWNER AND ENGINEER WITH ADDITIONAL PAYMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE CONTRACT AGREEMENT WITH THE OWNER.

CITY OF WATERTOWN GENERAL PLAN NOTES:

- ALL WORK TO BE PERFORMED WITHIN THE CITY OF WATERTOWN MARGIN WILL REQUIRE SIGN-OFF FROM A PROFESSIONAL ENGINEER, LICENSED AND CURRENTLY REGISTERED TO PRACTICE IN THE STATE OF NEW YORK. THAT THE WORK WAS BUILT ACCORDING TO THE APPROVED SITE PLAN AND APPLICABLE CITY OF WATERTOWN STANDARDS.
- COMPACTION TESTING WILL BE REQUIRED FOR ALL WORK TO BE PERFORMED WITHIN THE CITY OF WATERTOWN MARGIN AND MUST BE SUBMITTED TO THE CITY OF WATERTOWN CODES DEPARTMENT.

	1
AC	ACRES
ВС	BOTTOM OF CURB
BLDG	BUILDING
ВОТ	ВОТТОМ
BW	BOTTOM OF WALL
С	CURVE
СВ	CATCH BASIN
CF	CUBIC FEET
CI	CUBIC INCHES
CL OR &	CENTERLINE
СО	COUNTY
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
DA	DELTA ANGLE
DA# OR DA NO.	DRAINAGE AREA NUMBER
DI	DUCTILE IRON
DIA	DIAMETER
DWG	DRAWING
DYLL	DOUBLE YELLOW LANE LINE
Е	EAST
EG	EXISTING GRADE
EL	ELEVATION
ESC	EROSION AND SEDIMENT CONTROL
FF	FINISHED FLOOR
FG	FINISHED GRADE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HYD	HYDRANT
IPF	IRON PIPE FOUND
IPS	IRON PIPE SET
INT	INTERSECTION
INV	INVERT
L	LENGTH
LF	LINEAR FEET
MAX	MAXIMUM
MEG	MATCH EXISTING GRADE
MIN	MINIMUM
N	NORTH
N/A	NOT APPLICABLE
NO. OR #	NUMBER
NTS	NOT TO SCALE
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
NYSDOH	NEW YORK STATE DEPARTMENT OF HEALTH
OU	OVERHEAD UTILITY LINE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS OR RADII
RCP	REINFORCED CONCRETE PIPE
1101	
	DUM OF COLICUED
ROC	RUN OF CRUSHER
	RUN OF CRUSHER RIGHT OR WAY
ROC	
ROC ROW	RIGHT OR WAY
ROC ROW S	RIGHT OR WAY SOUTH
ROC ROW S SAN SB	RIGHT OR WAY SOUTH SANITARY
ROC ROW S SAN SB SDR	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO
ROC ROW S SAN SB SDR SMH	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE
ROC ROW S SAN SB SDR SMH STMH	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE
ROC ROW S SAN SB SDR SMH	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE
ROC ROW S SAN SB SDR SMH STMH	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE
ROC ROW S SAN SB SDR SMH STMH SWPPP	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN
ROC ROW S SAN SB SDR SMH STMH SWPPP SWLL TC	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN SINGLE WHITE LANE LINE TOP OF CURB
ROC ROW S SAN SB SDR SMH STMH SWPPP SWLL TC TL	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN SINGLE WHITE LANE LINE TOP OF CURB TANGENT LENGTH
ROC ROW S SAN SB SDR SMH STMH SWPPP SWLL TC TL TOC	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN SINGLE WHITE LANE LINE TOP OF CURB TANGENT LENGTH TOP OF CONCRETE
ROC ROW S SAN SB SDR SMH STMH SWPPP SWLL TC TL	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN SINGLE WHITE LANE LINE TOP OF CURB TANGENT LENGTH TOP OF CONCRETE TYPICAL
ROC ROW S SAN SB SDR SMH STMH SWPPP SWLL TC TL TOC	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN SINGLE WHITE LANE LINE TOP OF CURB TANGENT LENGTH TOP OF CONCRETE
ROC ROW S SAN SB SDR SMH STMH SWPPP SWLL TC TL TOC (TYP)	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN SINGLE WHITE LANE LINE TOP OF CURB TANGENT LENGTH TOP OF CONCRETE TYPICAL
ROC ROW S SAN SB SDR SMH STMH SWPPP SWLL TC TL TOC (TYP) TW	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN SINGLE WHITE LANE LINE TOP OF CURB TANGENT LENGTH TOP OF CONCRETE TYPICAL TOP OF WALL
ROC ROW S SAN SB SDR SMH STMH SWPPP SWLL TC TL TOC (TYP) TW TS & V	RIGHT OR WAY SOUTH SANITARY SETBACK STANDARD DIMENSION RATIO SANITARY MANHOLE STORM MANHOLE STORM WATER POLLUTION PREVENTION PLAN SINGLE WHITE LANE LINE TOP OF CURB TANGENT LENGTH TOP OF CONCRETE TYPICAL TOP OF WALL TAPPING SLEEVE AND VALVE

ABBREVIATIONS



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OF ALTERATION.

PROJECT NO: 2023-045 RAWN BY: DESIGNED BY: CHECKED BY:

DATE ISSUED:

NEW OF

ABBREVIATION AND

ON BUILDING ADDITION , WATERTOWN NY, 13601 , JEFFERSON COUNTY, S' E TRANSPORTATION E

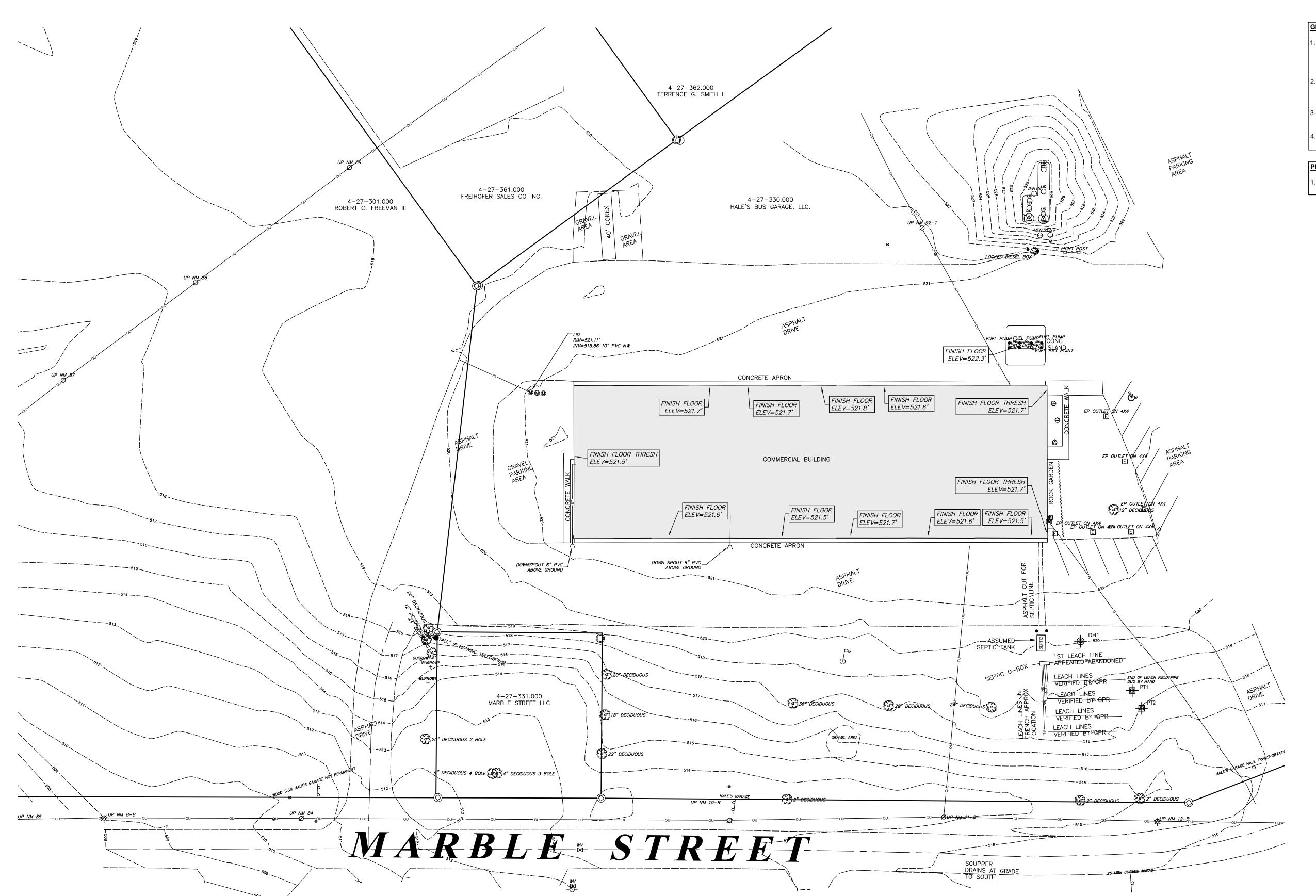
MARBLE STREET, WA

OF WATERTOWN, JE

NOTE

GENERAL LAST REVISED:

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GENERAL SURVEY NOTES:

- 1. EXISTING CONDITIONS ARE BASED ON A FIELD SURVEY PERFORMED BY GYMO ARCHITECTURE, ENGINEERING, & LAND SURVEYING D.P.C.. FIELD WORK AND SURVEY WERE COMPLETED IN SEPTEMBER OF 2023.
- 2. PARCEL BOUNDARIES ARE BASED ON A SURVEY PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C.. FIELD WORK AND SURVEY WERE COMPLETED IN JUNE AND JULY OF 2019.
- 3. THE SURVEY IS TIED HORIZONTALLY INTO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- THE SURVEY IS TIED VERTICALLY INTO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

PERCOLATION TEST NOTES:

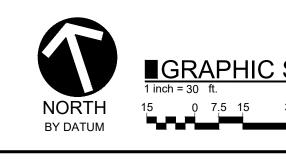
1. PERCOLATION TESTS WERE PERFORMED ON NOVEMBER 8, 2023 BY M. TOMPKINS AND C. BERND.

LAIGI	ING LEGEND
	- CENTERLINE OF STREET
E	TREE
⊠ CV	GAS VALVE
	EDGE OF PAVEMENT
	PAINTED PAVEMENT MARKING
	PARCEL BOUNDARY
	BUILDING
- — — —521— — — —	- MINOR GROUND CONTOUR
- — — —510— — — —	- MAJOR GROUND CONTOUR
	- EDGE OF CONCRETE
	TRAFFIC SIGNS
UP Ø	UTILITY POLE
8	GUY WIRE
W	MANHOLE
©	CLEANOUT
SEPTIC	SEPTIC TANK
	OVERHEAD UTILITY
₩	WATER VALVE
ev ⊠	GAS VALVE
G	- UNDERGROUND GAS LINE
	- STORM SEWER LINE
۲	STORM END SECTION
-SN	- SANITARY SEWER LINE
*	OVERHEAD LIGHT FIXTURE
Ē	ELECTRIC METER
E	ELECTRIC BOX
	HVAC UNIT
	GAS METER
•	PIPE BOLLARD
<u> </u>	FLAG POLE
	LID
	DOUBLE LIGHT POST
	IRON PIPE (BY L.W.M.)
	IRON ROD (BY L.W.M.)
$\overline{\mathcal{O}}$	

PERCOLATION TEST 1 - PT1 (24" DEPTH)		
RUN NUMBER	TIME FOR 1 INCH DROP (MINUTES)	
1	40	
2	42	
3	42	

PERCOLATION TEST 2 - PT2 (24" DEPTH)		
RUN NUMBER	TIME FOR 1 INCH DROP (MINUTES)	
1	12	
2	14	
3	16	
	17	

DEEP HOLE 1 - DH1	
DEPTH INTERVAL	SOIL DESCRIPTION
0' - 0.75'	TOPSOIL
0.75' - 5'	CLAYEY SAND
NO BEDROCK OR GROUNDWATER OBSERVED	



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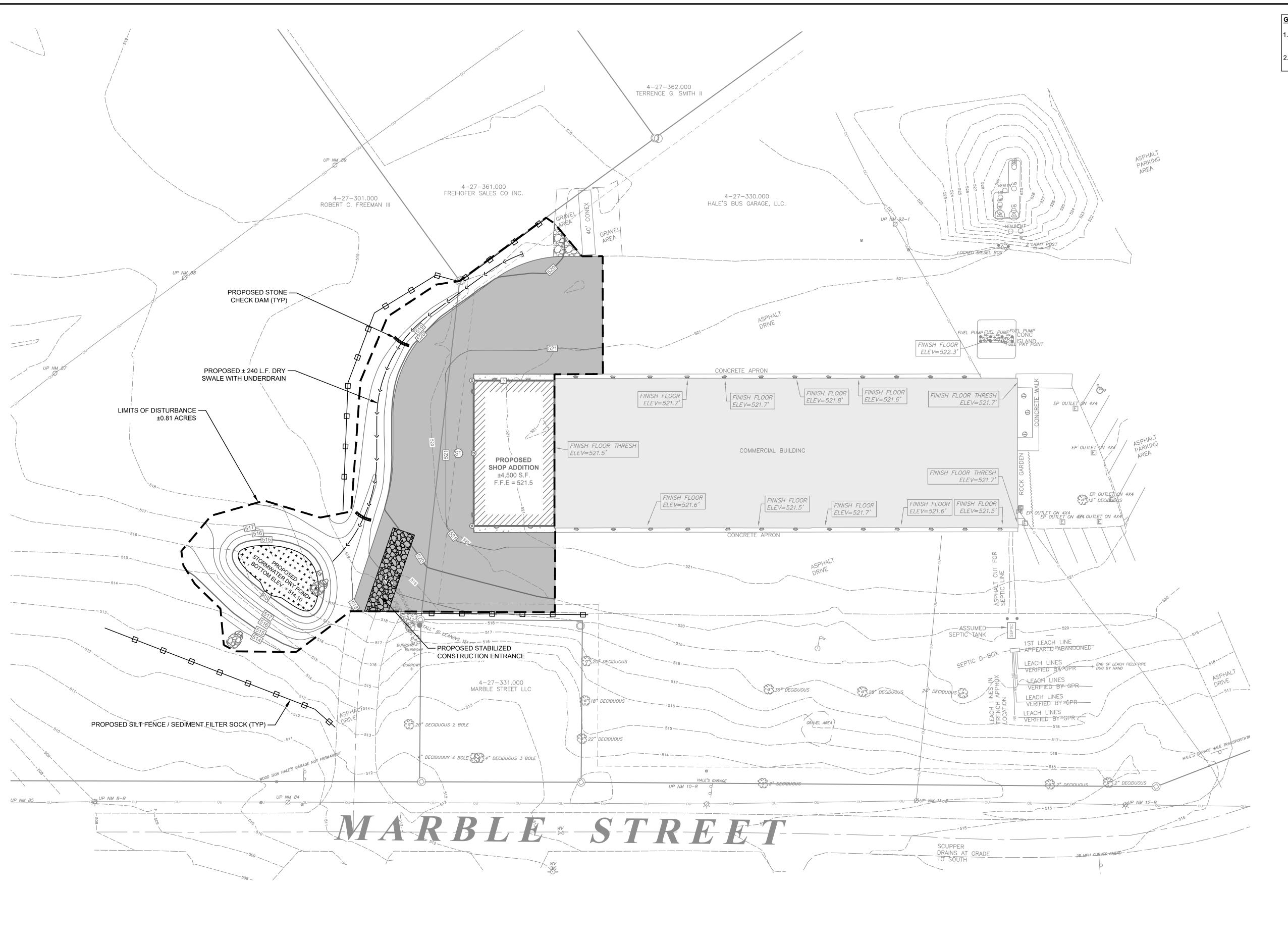
ON BUILDING ADDITION

JEFFERSON COUNTY, STATE OF NEW

ALE TRANSPORTATION E 367 MARBLE STREET

LAST REVISED: N/A
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PRAWING NO.



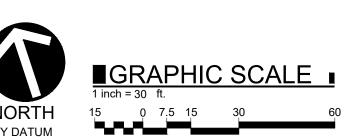
GENERAL DATUM NOTES:

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	TING LEGEND
-ACV20	CENTERLINE OF STREET
	TREE
⊠	GAS VALVE
	EDGE OF PAVEMENT
	PAINTED PAVEMENT MARKING
	PARCEL BOUNDARY
	BUILDING
- — — - 521— — —	— MINOR GROUND CONTOUR
- — — - 510— —	— MAJOR GROUND CONTOUR
	EDGE OF CONCRETE
0 00	TRAFFIC SIGNS
UP Ø	UTILITY POLE
8	GUY WIRE
(M)	MANHOLE
69	CLEANOUT
SEPTIC	SEPTIC TANK
	OVERHEAD UTILITY
₩v	WATER VALVE
ĞV	GAS VALVE
	UNDERGROUND GAS LINE
-51	STORM SEWER LINE
<	STORM END SECTION
SN-	SANITARY SEWER LINE
*	OVERHEAD LIGHT FIXTURE
Ē	ELECTRIC METER
E	ELECTRIC BOX
	HVAC UNIT
©	GAS METER
•	PIPE BOLLARD
5	FLAG POLE
LIDO	LID
□——□	DOUBLE LIGHT POST
	IRON PIPE (BY L.W.M.)
\bigcirc	IRON ROD (BY L.W.M.)
	REBAR (BY L.W.M.)

PROPOSED LEGEND	
	SILT FENCE / SEDIMENT FILTER SOCK
	STONE CHECK DAM
	DRY SWALE WITH UNDERDRAIN
+ + + + + + + + +	STORMWATER MANAGEMENT AREA
	STABILIZED CONSTRUCTION ENTRANCE
	LIMITS OF DISTURBANCE



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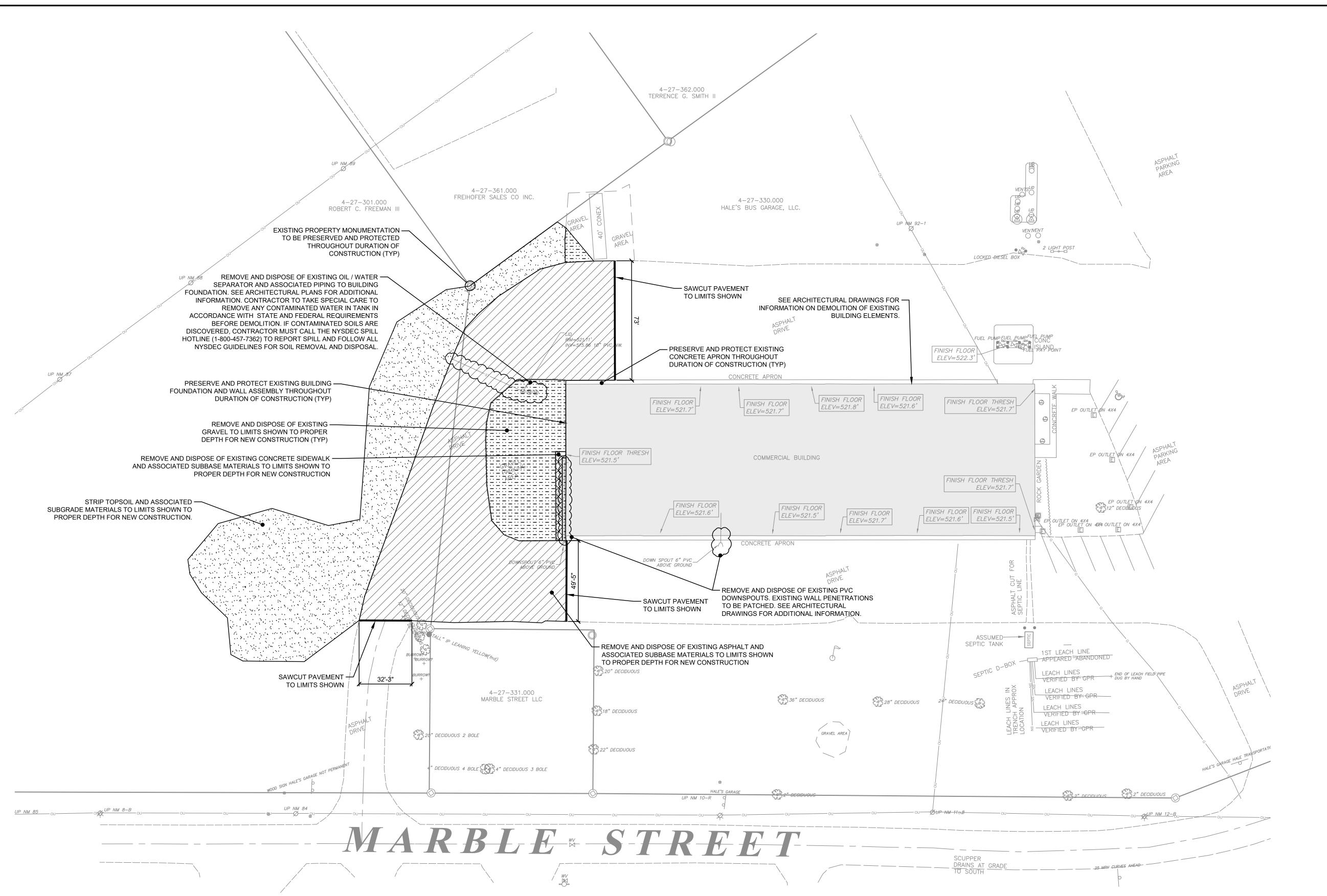
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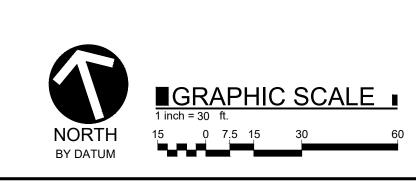
HALE TRANSPORTATION BUILDING ADDITION 1067 MARBLE STREET CITY OF WATERTOWN, JEFFERSON COUNTY,

EROSION AND SEDIMENT CONTROL

LAST REVISED: FOR APPROVALS ONLY NOT FOR CONSTRUCTION



EXISTING LEGEND		
	CENTERLINE OF STREET	
£33	TREE	
Gv ⊠	GAS VALVE	
	EDGE OF PAVEMENT	
	PAINTED PAVEMENT MARKING	
	PARCEL BOUNDARY	
	BUILDING	
	MINOR GROUND CONTOUR	
	MAJOR GROUND CONTOUR	
	EDGE OF CONCRETE	
- 00	TRAFFIC SIGNS	
UP Ø	UTILITY POLE	
89	GUY WIRE	
(M)	MANHOLE	
©	CLEANOUT	
SEPTIC	SEPTIC TANK	
	OVERHEAD UTILITY	
₩V	WATER VALVE	
SV SV	GAS VALVE	
G	UNDERGROUND GAS LINE	
	STORM SEWER LINE	
<	STORM END SECTION	
N	SANITARY SEWER LINE	
*	OVERHEAD LIGHT FIXTURE	
E	ELECTRIC METER	
E	ELECTRIC BOX	
EX.	HVAC UNIT	
©	GAS METER	
•	PIPE BOLLARD	
	FLAG POLE	
LID ()	LID	
□—□	DOUBLE LIGHT POST	
	IRON PIPE (BY L.W.M.)	
\bigcirc	IRON ROD (BY L.W.M.)	
	REBAR (BY L.W.M.)	



PROPOSED LEGEND

GRAVEL REMOVAL

CONCRETE REMOVAL

ASPHALT PAVEMENT REMOVAL

STRIP TOPSOIL AND SUBGRADE



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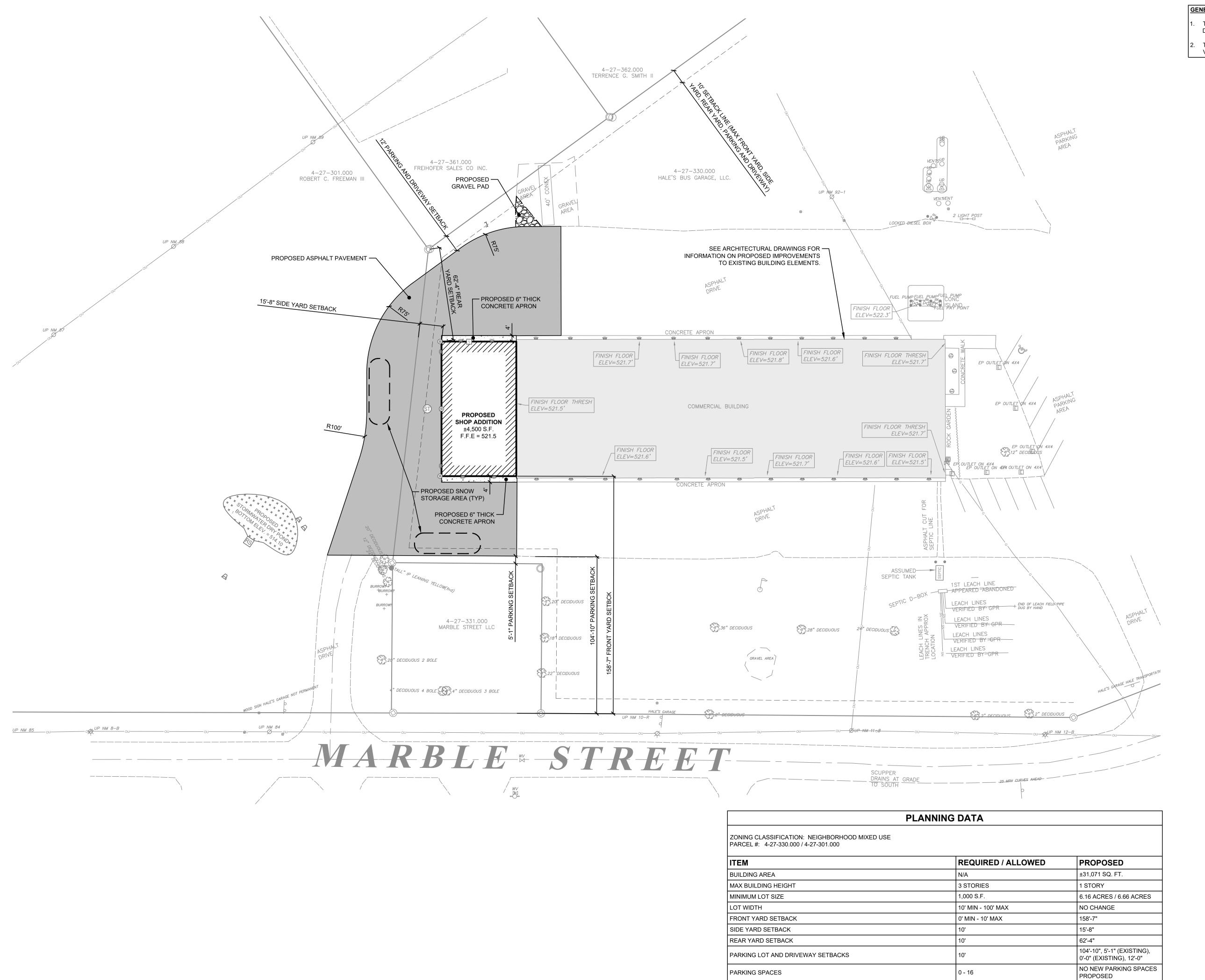
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ADDITION

TRANSPORTATION BUILDING MARBLE STREET OF WATERTOWN, JEFFERSON DEMOLITION PL

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IMPERVIOUS SURFACE COVERAGE

GROUND FLOOR TRANSPARENCY, FRONT FACADE (MIN.)

FACADE LENGTH (MAX.)

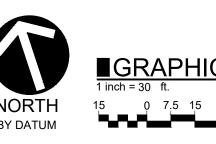
GENERAL DATUM NOTES:

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EXIST	ING LEGEND
	CENTERLINE OF STREET
	TREE
ĞV	GAS VALVE
	EDGE OF PAVEMENT
	PAINTED PAVEMENT MARKING
	PARCEL BOUNDARY
	BUILDING
— — — —521— — — —	MINOR GROUND CONTOUR
	MAJOR GROUND CONTOUR
	EDGE OF CONCRETE
- 00	TRAFFIC SIGNS
UP Ø	UTILITY POLE
⊗	GUY WIRE
(M)	MANHOLE
©	CLEANOUT
SEPTIC	SEPTIC TANK
U	OVERHEAD UTILITY
₩V ⊠	WATER VALVE
GV ▶	GAS VALVE
	- UNDERGROUND GAS LINE
-51	STORM SEWER LINE
<	STORM END SECTION
-SN	- SANITARY SEWER LINE
*	OVERHEAD LIGHT FIXTURE
Ē	ELECTRIC METER
E	ELECTRIC BOX
	HVAC UNIT
©	GAS METER
•	PIPE BOLLARD
5	FLAG POLE
LIDO	LID
□	DOUBLE LIGHT POST
	IRON PIPE (BY L.W.M.)
\bigcirc	IRON ROD (BY L.W.M.)
	REBAR (BY L.W.M.)

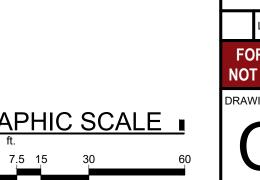
PROPOS	PROPOSED LEGEND		
A	CONCRETE		
	ASPHALT PAVEMENT		
<u> </u>	GRAVEL		
	BUILDING ADDITION		
	SNOW STORAGE AREA		
	SETBACK LINE		



±58% / ±3%

± 5.87%

337'



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NSPORTATION BUILDING ADDITION BLE STREET

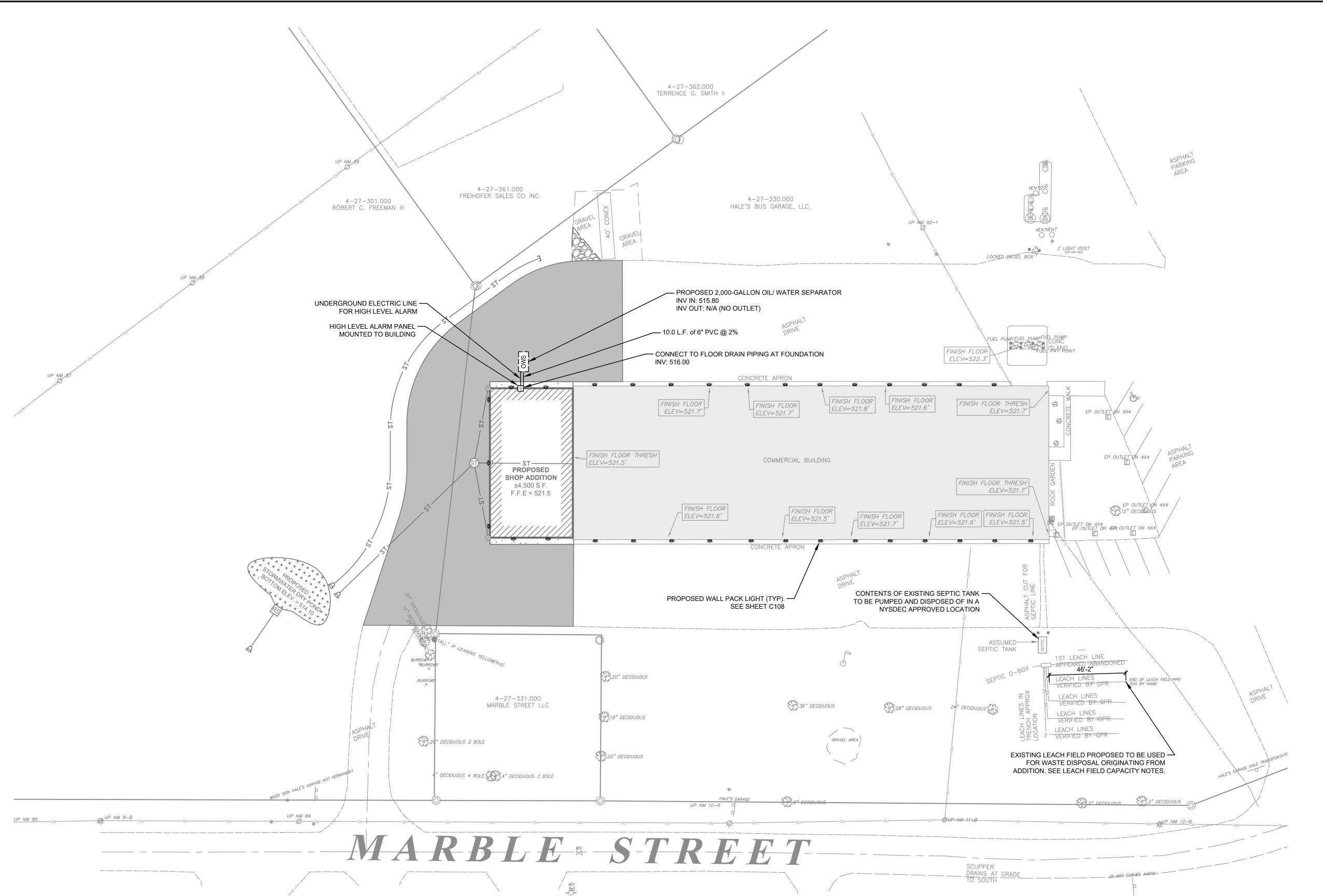
ALE PLAIN ALE TRANSPOR 067 MARBLE STI

LAST REVISED: N/A

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DRAWING NO.



LEACH FIELD CAPACITY NOTES:

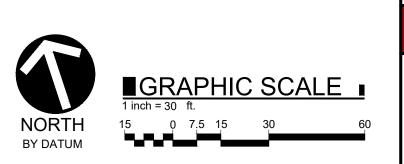
EXISTING LEACH FIELD APPEARS TO CONSIST OF (4) 46' LONG ABSORPTION TRENCHES. USING THE SLOWEST OBSERVED PERCOLATION RATE OF THE

SOIL ADJACENT TO THE LEACH FIELD (42 MINUTES PER INCH), THE ALLOWABLE APPLICATION RATE OF THE EXISTING LEACH FIELD IS 0.50 GAL/DAY/SF. THE CAPACITY OF THE LEACH FIELD IS CALCULATED TO BE

(4)*(46')*(2')*(0.50 GAL/DAY/SF) = 184 GAL/DAYFLOW TO THE LEACH FIELD IS EXPECTED TO BE (6 EMPLOYEES)*(15 GPD/EMPLOYEE) + (5 BUS LAVATORIES)*(5 GAL/BUS) = 115 GPD

EXISTI	NG LEGEND
	CENTERLINE OF STREET
£ 45	TREE
Gv	GAS VALVE
	EDGE OF PAVEMENT
	PAINTED PAVEMENT MARKING
	PARCEL BOUNDARY
	BUILDING
	MINOR GROUND CONTOUR
	MAJOR GROUND CONTOUR
	EDGE OF CONCRETE
	TRAFFIC SIGNS
UP Ø	UTILITY POLE
8	GUY WIRE
(M)	MANHOLE
©	CLEANOUT
SEPTIC	SEPTIC TANK
U	OVERHEAD UTILITY
₩V	WATER VALVE
⊠ ©V	GAS VALVE
	UNDERGROUND GAS LINE
TZ	STORM SEWER LINE
(STORM END SECTION
SN	SANITARY SEWER LINE
*	OVERHEAD LIGHT FIXTURE
E	ELECTRIC METER
E	ELECTRIC BOX
	HVAC UNIT
©	GAS METER
•	PIPE BOLLARD
F	FLAG POLE
LID	LID
□□	DOUBLE LIGHT POST
	IRON PIPE (BY L.W.M.)
\bigcirc	IRON ROD (BY L.W.M.)
	REBAR (BY L.W.M.)

PROPOS	PROPOSED LEGEND		
sn	FLOOR DRAIN PIPING		
[ows]	OIL WATER SEPARATOR		
世	WALL PACK LIGHT FIXTURE		
——— UE ———	UNDERGROUND ELECTRIC LINE		
4	ALARM PANEL		



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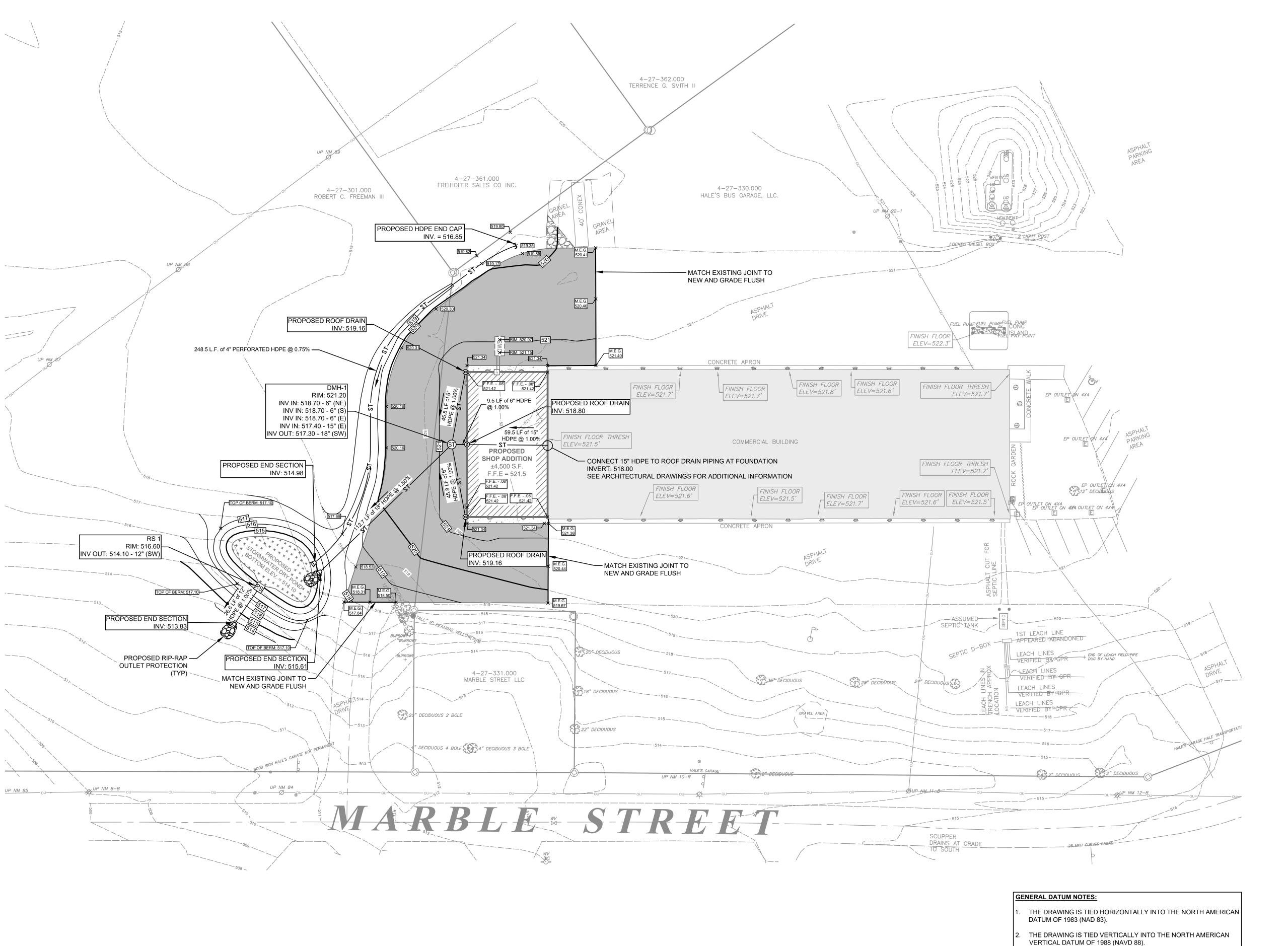
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ADDITION

BUILDING A

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E 47 GAS VALVE EDGE OF PAVEMENT PAINTED PAVEMENT MARKING PARCEL BOUNDARY BUILDING MINOR GROUND CONTOUR MAJOR GROUND CONTOUR — — -510- — — EDGE OF CONCRETE TRAFFIC SIGNS 0 00 UP Ø UTILITY POLE **GUY WIRE** MANHOLE CLEANOUT SEPTIC TANK OVERHEAD UTILITY WATER VALVE GAS VALVE UNDERGROUND GAS LINE STORM SEWER LINE STORM END SECTION SANITARY SEWER LINE **OVERHEAD LIGHT FIXTURE** ELECTRIC METER ELECTRIC BOX HVAC UNIT **GAS METER** PIPE BOLLARD FLAG POLE LID 🔾 DOUBLE LIGHT POST IRON PIPE (BY L.W.M.) IRON ROD (BY L.W.M.) REBAR (BY L.W.M.)

EXISTING LEGEND

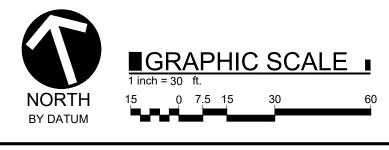
CENTERLINE OF STREET

PROPOSED LEGEND		
520	MAJOR CONTOUR	
517	MINOR CONTOUR	
× 394.28	SPOT GRADE	
M.E.G. 1012.14	SPOT GRADE - MATCH EXISTING GRADE	
	RIP-RAP	
T2	STORM PIPE	
B	END SECTION	
(ST)	STORM MANHOLE	
RS	RISER STRUCTURE	
0	ROOF DRAIN	
Γ	STORM END CAP	

GENERAL GRADING AND ELEVATION NOTES:

AT SOME INSTANCES WHERE NEW WORK AND EXISTING WORK TIE TOGETHER, THE CONTRACTOR IS PROVIDED A SPOT ELEVATION AND INSTRUCTED TO MATCH EXISTING GRADE. THE INTENT OF THE SPOT ELEVATION IS TO PROVIDE A REFERENCE FOR THE CONTRACTOR, HOWEVER MATCHING EXISTING GRADE AT THESE LOCATIONS TAKES PRIORITY OVER ACHIEVING THE SPECIFIED ELEVATION.

BEFORE ANY GRADING, UTILITY, OR OTHER ELEVATION DEPENDENT ACTIVITIES COMMENCE, THE CONTRACTOR SHALL VERIFY TIE-IN ELEVATIONS WITH THE PLANS AND REPORT TO ENGINEER SHOULD THE FIELD ELEVATION AND SPECIFIED ELEVATION VARY BY MORE THAN 0.05'.



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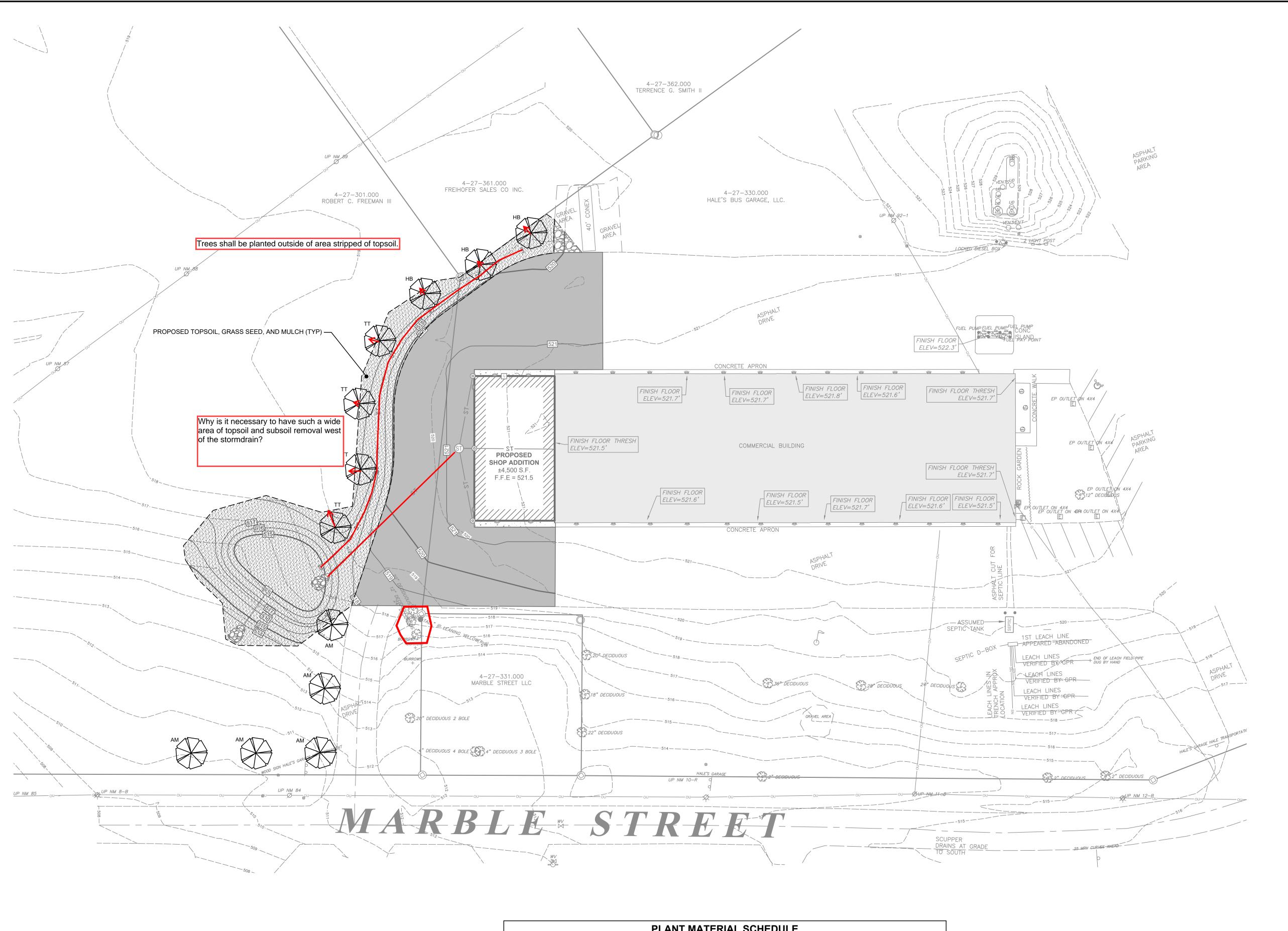
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DRAWN BY:	M
DESIGNED BY:	MJO
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DATE ISSUED:	11-14-202

ADDITION AN DRAINAGE BUILDING E TRANSPORTATION E 7 MARBLE STREET 7 OF WATERTOWN, JEI AND GRADING

HALE 1067 N CITY (

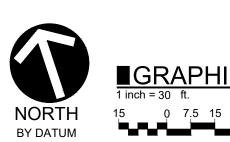
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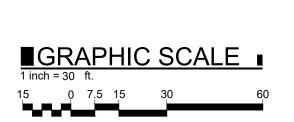


EXIST	ING LEGEND
	CENTERLINE OF STREET
	TREE
SA S	GAS VALVE
	EDGE OF PAVEMENT
	PAINTED PAVEMENT MARKING
	PARCEL BOUNDARY
	BUILDING
— — — —521— — — —	MINOR GROUND CONTOUR
— — — — — — — — — — — — — — — — — — —	MAJOR GROUND CONTOUR
	EDGE OF CONCRETE
- 00	TRAFFIC SIGNS
UP Ø	UTILITY POLE
8	GUY WIRE
M	MANHOLE
©	CLEANOUT
SEPTIC	SEPTIC TANK
	OVERHEAD UTILITY
₩V	WATER VALVE
GV	GAS VALVE
	UNDERGROUND GAS LINE
	STORM SEWER LINE
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SN	SANITARY SEWER LINE
*	OVERHEAD LIGHT FIXTURE
Ē	ELECTRIC METER
E	ELECTRIC BOX
XX	HVAC UNIT
6	GAS METER
•	PIPE BOLLARD
5	FLAG POLE
LID 🔾	LID
□	DOUBLE LIGHT POST
	IRON PIPE (BY L.W.M.)
\oslash	IRON ROD (BY L.W.M.)
	REBAR (BY L.W.M.)

PROPOSED LEGEND		
	TOPSOIL, GRASS SEED, AND MULCH	
	TREE	

PLANT MATERIAL SCHEDULE			
SYMBOL BOTANICAL NAME COMMON NAME SIZE			SIZE
TREES			
AM	ACER RUBRUM 'AUTUMN FLAME'	AUTUMN FLAME MAPLE	2" CAL.
TT	LIRIODENDRON TULIPIFERA	TULIPTREE	2" CAL.
НВ	CELTIS OCCIDENTALIS	HACKBERRY	2" CAL.





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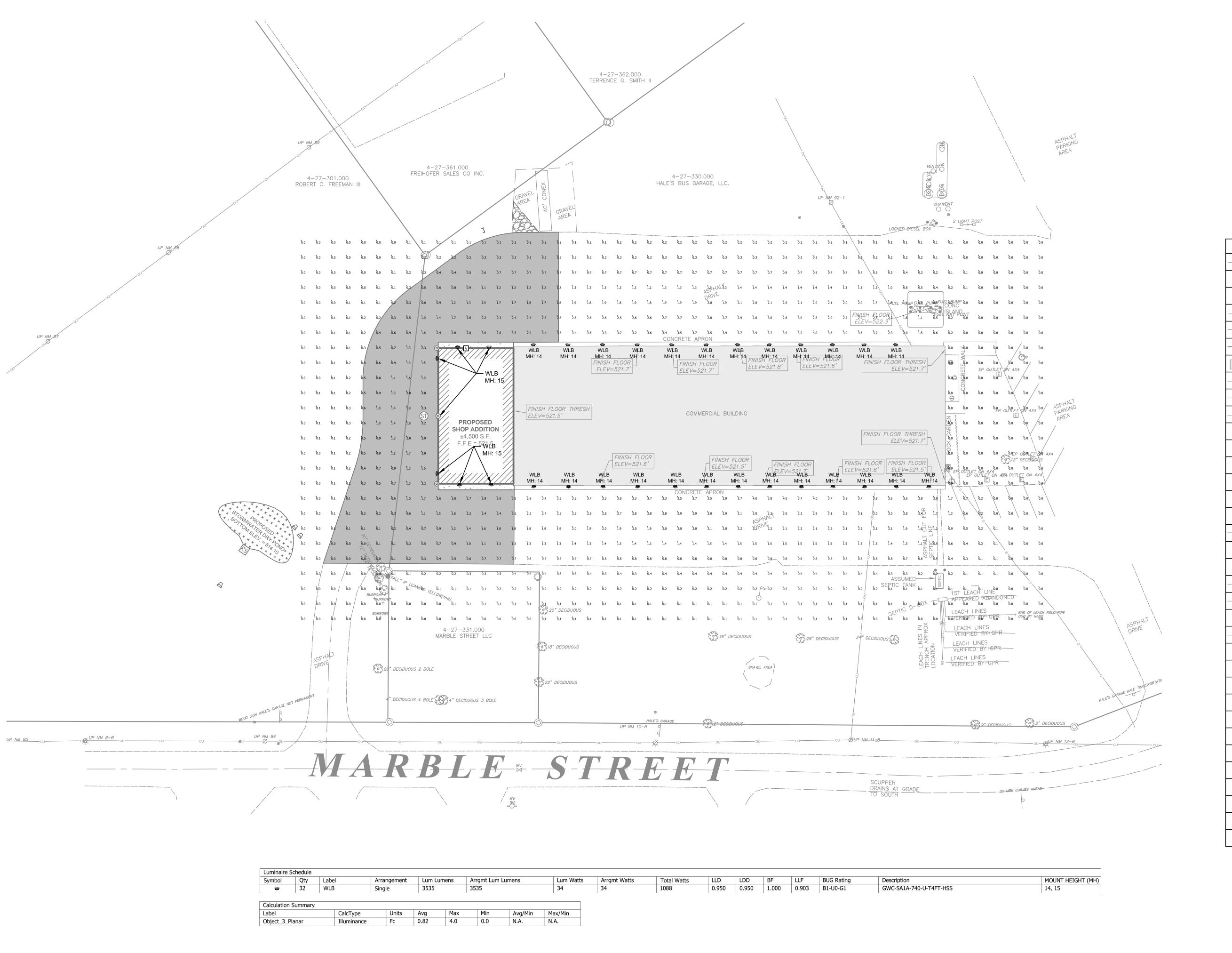
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HIS OR HER SIGNATURE, DATE
AND A SPECIFIC DESCRIPTION
OF ALTERATION.

PROJECT NO:	2023-045
SCALE:	1" = 30'
DRAWN BY:	MT
DESIGNED BY:	MJC
CHECKED BY:	MJC
DATE ISSUED:	11-14-2023

HALE TRANSPORTATION BUILDING ADDITION 1067 MARBLE STREET CITY OF WATERTOWN, JEFFERSON COUNTY, ANDSCAPING PL

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EXIST	ING LEGEND
	CENTERLINE OF STREET
£45	TREE
GV 	GAS VALVE
	EDGE OF PAVEMENT
	PAINTED PAVEMENT MARKING
	PARCEL BOUNDARY
	BUILDING
— — — —521— — —	MINOR GROUND CONTOUR
	MAJOR GROUND CONTOUR
	EDGE OF CONCRETE
-0 00	TRAFFIC SIGNS
UP Ø	UTILITY POLE
8	GUY WIRE
M	MANHOLE
®	CLEANOUT
SEPTIC	SEPTIC TANK
	OVERHEAD UTILITY
₩V	WATER VALVE
GV ▷<	GAS VALVE
	UNDERGROUND GAS LINE
	STORM SEWER LINE
<	STORM END SECTION
-2N	SANITARY SEWER LINE
*	OVERHEAD LIGHT FIXTURE
Ē	ELECTRIC METER
E	ELECTRIC BOX
	HVAC UNIT
©	GAS METER
•	PIPE BOLLARD
	FLAG POLE
LIDO	LID
□	DOUBLE LIGHT POST
	IRON PIPE (BY L.W.M.)
\bigcirc	IRON ROD (BY L.W.M.)
	+

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OF ALTERATION. SEAL:

PROJECT NO:	2023-045
SCALE:	1" = 30'
DRAWN BY:	MT
DESIGNED BY:	MJC
CHECKED BY:	MJC
DATE ISSUED:	11-14-2023

COUNTY,

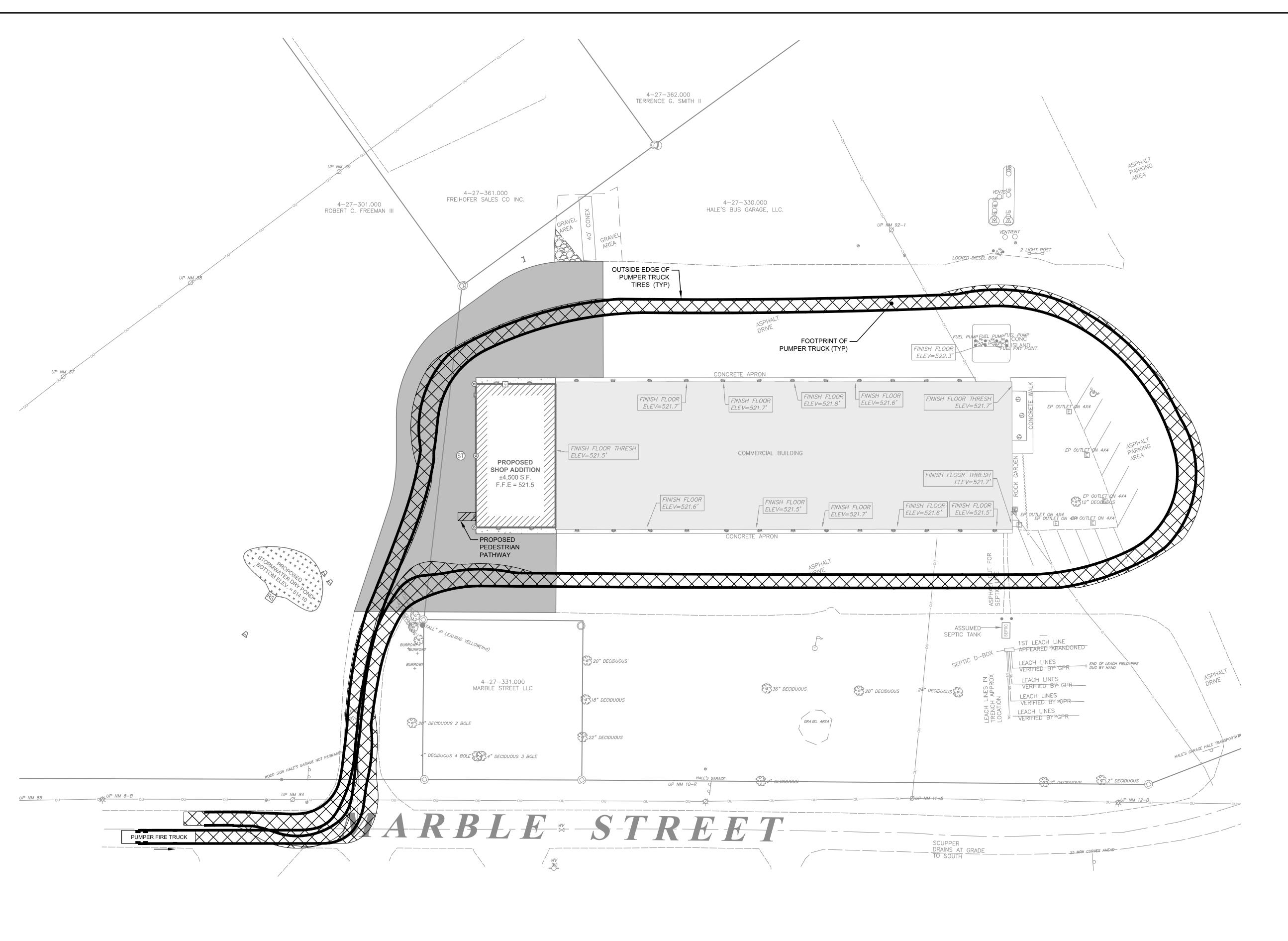
TRANSPORTATION BUILDING ADDITION MARBLE STREET

OF WATERTOWN, JEFFERSON COUNTY,

PHOTOMETRICS PLAN

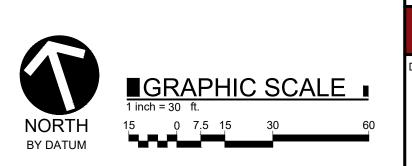
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EXIST	ING LEGEND
	CENTERLINE OF STREET
	TREE
gv ⊠	GAS VALVE
	EDGE OF PAVEMENT
	PAINTED PAVEMENT MARKING
	PARCEL BOUNDARY
	BUILDING
	MINOR GROUND CONTOUR
	MAJOR GROUND CONTOUR
	EDGE OF CONCRETE
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M	MANHOLE
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	OVERHEAD UTILITY
wv.	WATER VALVE
GV	GAS VALVE
G	UNDERGROUND GAS LINE
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<	STORM END SECTION
SN	SANITARY SEWER LINE
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©	ELECTRIC METER
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	DOUBLE LIGHT POST
0	IRON PIPE (BY L.W.M.)
\oslash	IRON ROD (BY L.W.M.)
	REBAR (BY L.W.M.)

PROPOS	SED LEGEND
XXXX	FIRE TRUCK FOOTPRINT
	FIRE TRUCK TIRE PATH
	PEDESTRIAN PATHWAY



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PROJECT NO: 2023-045

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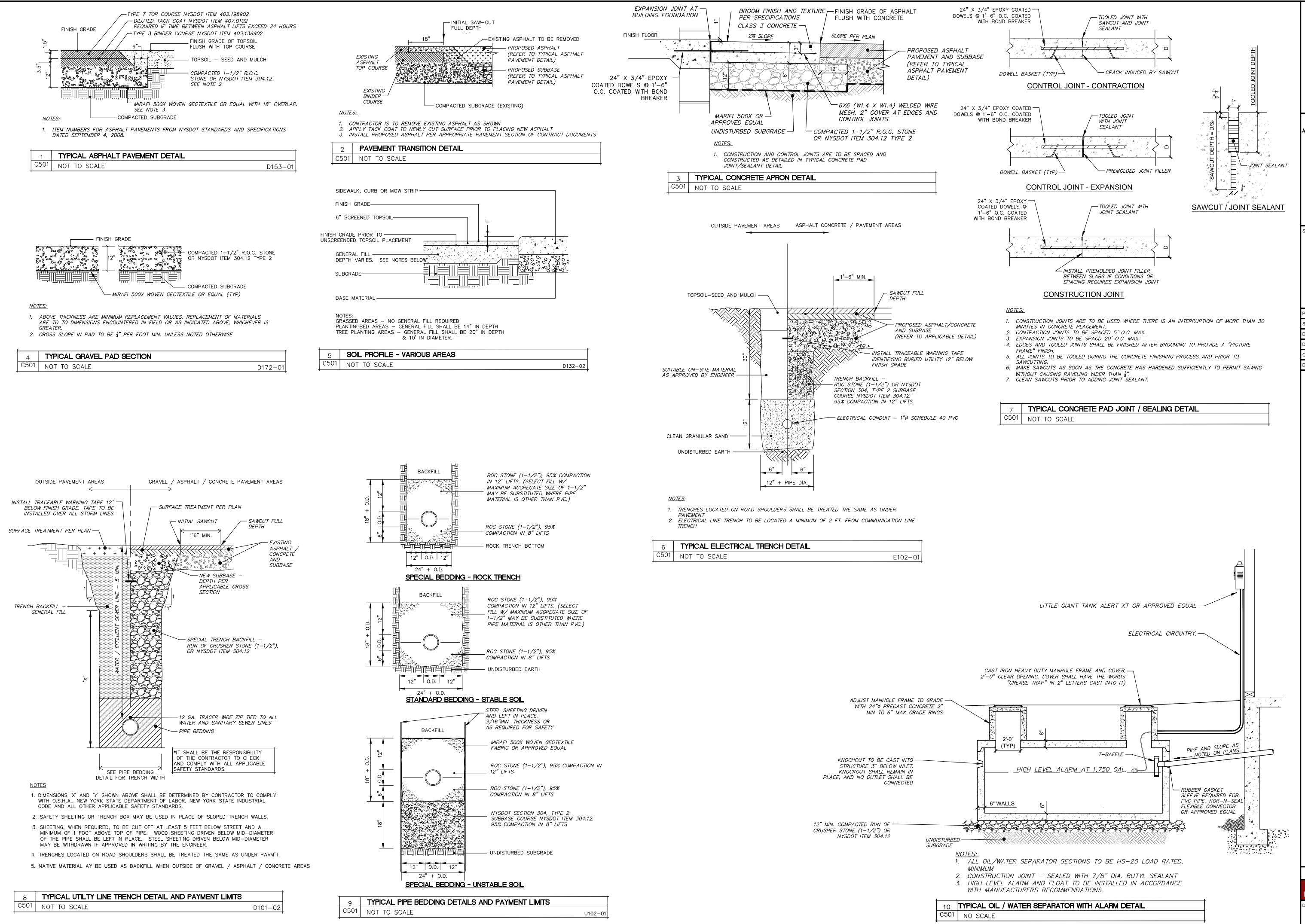
PLAN ORK

HALE TRANSPORTATION BUILDING ADDITION 1067 MARBLE STREET CITY OF WATERTOWN, JEFFERSON COUNTY,

VEHICULAR AND PEDESTRIAN CIRCULATION LAST REVISED:

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AND A SPECIFIC DESC OF ALTERATION SEAL:

PROJECT NO: 2023-045

SCALE: N/A

DRAWN BY: MT

DESIGNED BY: MJC

CHECKED BY: MJC

DATE ISSUED: 11-14-2023

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BUILDING ADDITION

TE DETAILS

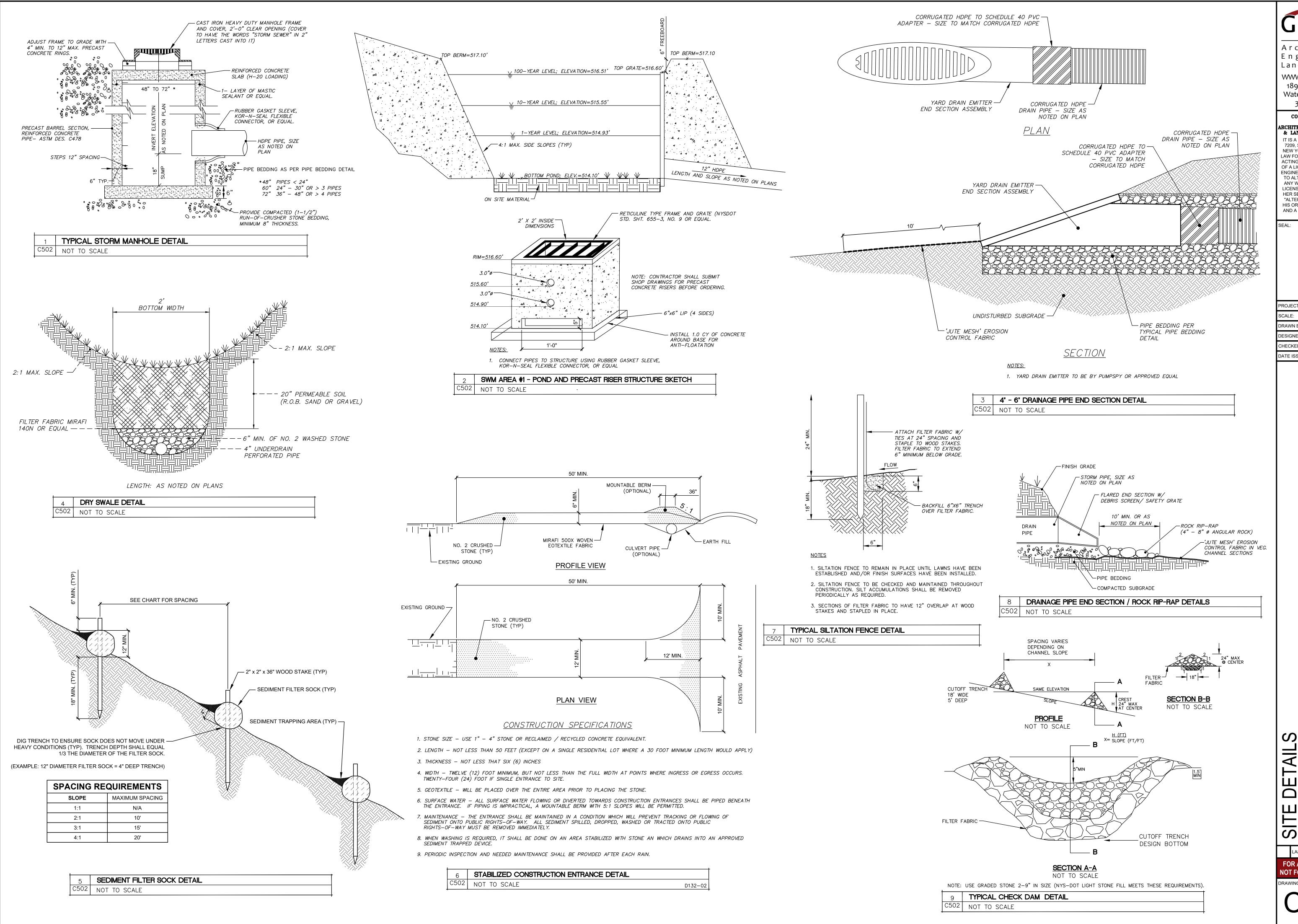
LE TRANSPORTATION BUILDING
37 MARBLE STREET

FY OF WATERTOWN, JEFFERSO

LAST REVISED: N/A

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DRAWING NO.



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PROJECT NO: 2023-045 DRAWN BY: DESIGNED BY: CHECKED BY: DATE ISSUED: 11-14-2023

OR

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DRAWING NO.

GENERAL TREE PLANTING NOTES:

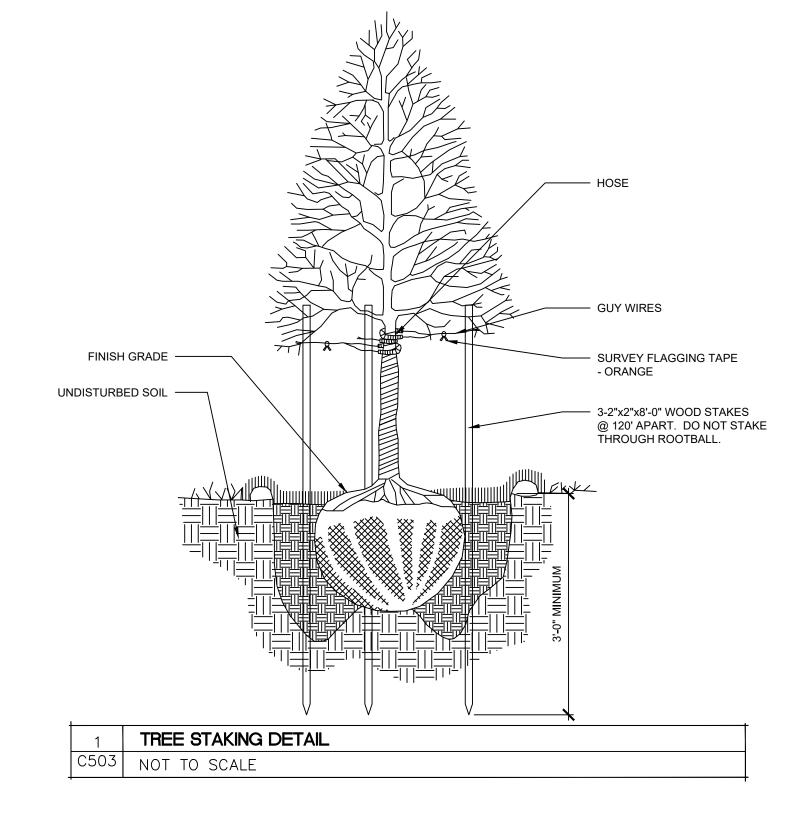
- 1. THESE NOTES ARE PRESENTED AS A "SUMMARY" OF THE WRITTEN SPECIFICATIONS ISSUED FOR THE PROJECT.
 REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL DETAIL AND FULL PROJECT REQUIREMENTS.
- ANY QUANTITIES INDICATED ON THE DRAWINGS OR ON THE TREE MATERIAL SCHEDULE ARE PROVIDED FOR THE BENEFIT OF THE LANDSCAPE SUBCONTRACTOR BUT SHOULD NOT BE ASSUMED TO BE CORRECT. THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE QUANTITIES INDICATED. ANY DISCREPANCIES NOTED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO INSTALLATION. IN THE EVENT OF A DISCREPANCY, THE GRAPHIC REPRESENTATIONS SHOWN ON THE DRAWINGS SHALL GOVERN.
- NO SUBSTITUTIONS AS TO SIZE, TYPE, SPACING, QUANTITY OR QUALITY OF TREE MATERIAL SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES IN TREE MATERIAL MAY CONSTITUTE PLAN RE-APPROVAL.
- 4. TREES SHALL BE SUPPLIED AT THE SIZES SPECIFIED ON THE DRAWINGS. THE SIZES SHOWN ARE THE MINIMUMS FOR EACH CATEGORY (HEIGHT, SPREAD, CALIPER, CONTAINER SIZE, ETC.) WHEN A RANGE OF SIZE IS GIVEN, 75% OF THE PLANTS SUPPLIED MUST MEET THE MAXIMUM RANGE SIZE, AND 25% OF THE PLANTS SUPPLIED SHALL BE THE MINIMUM RANGE SIZE SPECIFIED. THE PLANTS SUPPLIED MUST CONFORM TO ALL OF THE MINIMUM DIMENSIONS INDICATED. PLANTS OF LARGER SIZE MAY BE USED IF ACCEPTABLE TO THE ENGINEER AT NO ADDITIONAL COST AND IF SIZES OF CONTAINER OR ROOT BALLS, HEIGHT, AND SPREAD ARE INCREASED PROPORTIONATELY IN ACCORDANCE WITH ANSI Z60.1. ALL OTHER QUALITY REQUIREMENTS OF THE TREE MATERIAL MUST ALSO BE ADHERED.
- 5. ALL TREES MUST BE NURSERY GROWN, BALL AND BURLAP (B&B) OR CONTAINER GROWN AS-SPECIFIED IN THE MATERIALS SCHEDULE. CONTAINER GROWN MATERIAL CAN BE SUBSTITUTED FOR B&B MATERIAL WITH WRITTEN APPROVAL BY THE D/B CONTRACTOR PRIOR TO INSTALLATION. ALL TREE MATERIALS SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z-60.1, LATEST EDITION. ALL TREES SHALL COMPLY WITH ANSI Z-60.1 AND THE URBAN TREE FOUNDATION GUIDELINE FOR NURSERY TREE QUALITY, 2009 EDITION. ALL TREES SHALL BE HIGHEST QUALITY, FIRST CLASS REPRESENTATIVES OF THEIR SPECIES. SECONDS, CULLS, OR PARK GRADE MATERIAL WILL BE REJECTED.
- 6. CALIPER SIZE IS NOT TO BE REDUCED. CALIPER MEASUREMENTS SHALL BE TAKEN IN ACCORDANCE WITH ANSI STANDARDS.
- 7. ALL TREES MUST BE STRAIGHT TRUNK, HAVE A STRONG CENTRAL LEADER, FULL HEADED, AND MEET THE MINIMUM REQUIREMENTS. TREES WITH A "Y" SHAPE ARE NOT ACCEPTABLE. TREES THAT HAVE BEEN FRESHLY PRUNED TO MEET THESE SPECIFICATIONS SHALL BE REJECTED.
- 8. THE TREES VEGETATIVE CANOPY SHOULD BE MOSTLY SYMMETRICAL AND FREE OF LARGE VOIDS OR FLAT SURFACE AREAS ON ONE SIDE.
- 9. ALL STREET AND SHADE TREES SHALL HAVE A MINIMUM SIX FEET (6') CLEAR TRUNK UNLESS OTHERWISE NOTED ON PLANS OR PLANT LISTS
- 10. TREES MOVED DURING PERIODS OF HIGH TRANSPIRATION SHALL BE SPRAYED WITH AN ANTI-DESSICANT PRIOR TO MOVING. APPLY AND REMOVE ANTI-DESSICANTS AT THE MANUFACTURER'S RECOMMENDATIONS.
- 11. TREES SHALL BE STAKED AND GUYED AS DETAILED AND SPECIFIED ONLY IF THE TREE CANNOT STAND ON ITS OWN AS DETERMINED BY THE PROJECT LANDSCAPE ARCHITECT. STAKE AND GUYED MATERIALS SHALL BE REMOVED BY THE LANDSCAPE SUBCONTRACTOR SIX (6) MONTHS AFTER FINAL ACCEPTANCE.
- 12. ALL TREES ARE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER AT ANY TIME PRIOR TO FINAL ACCEPTANCE. REJECTED PLANTS SHALL BE REPLACED IMMEDIATELY AT NO ADDITIONAL COST.
- 13. THE LANDSCAPE SUBCONTRACTOR SHALL FIELD STAKE ALL TREES PRIOR TO INSTALLATION. THE OWNER'S REPRESENTATIVE SHALL APPROVE ALL STAKED LOCATIONS PRIOR TO INSTALLATION. PLANTS INSTALLED PRIOR TO APPROVAL BY THE OWNER'S REPRESENTATIVE ARE SUBJECT TO REJECTION AND REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER.
- 14. PRIOR TO COMMENCEMENT OF INSTALLATION, THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND SHALL AVOID DAMAGING UTILITIES DURING INSTALLATION. ANY UTILITIES DAMAGED DURING INSTALLATION SHALL BE REPAIRED BY THE LANDSCAPE SUBCONTRACTOR TO THE SATISFACTION OF THE APPROPRIATE UTILITY COMPANY AND THE ENGINEER. ALL REPAIRS SHALL BE AT NO COST TO THE OWNER.
- 15. NO TREES SHALL BE PLANTED WITHIN 10' OF SITE UTILITY LINES. TREE LOCATIONS PROPOSED WITHIN 10' SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT LANDSCAPE ARCHITECT PRIOR TO EXCAVATING. FIELD ADJUSTMENT OF TREE LOCATIONS SHALL BE DETERMINED BY THE PROJECT LANDSCAPE ARCHITECT. PLANTS RELOCATED AND INSTALLED WITHOUT APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT WILL BE REMOVED, REPLACED, AND RELOCATED AT NO ADDITIONAL COST.
- 16. THE LANDSCAPE CONTRACTOR SHALL UTILIZE ON-SITE TOPSOIL AS AVAILABLE FROM THE EARTHWORK SUBCONTRACTOR. ALL TOPSOIL SHALL BE APPROVED BY THE ENGINEER.
- 7. NO TREES SHALL BE INSTALLED IN POOR DRAINAGE CONDITIONS. LANDSCAPE SUBCONTRACTOR IS RESPONSIBLE FOR TESTING SUSPECT TREE PITS PRIOR TO TREE INSTALLATION. REFER TO THE LANDSCAPE SPECIFICATIONS FOR TREE PIT TESTING PROCEDURES.
- 18. ALL TREES SHALL BE PLACED WITH THE BEST FACE FORWARD, TOWARDS THE STREET WHENEVER POSSIBLE.
- 19. ALL TREES SHOULD BE PRUNED AS NECESSARY PRIOR TO INSTALLATION.
- 20. PRE-EMERGENT HERBICIDES, TREFLAN, PREEN, OR APPROVED EQUAL, SHALL BE APPLIED TO ALL TREE PLANTING BEDS PRIOR TO MULCHING. APPLY AT MANUFACTURERS RECOMMENDATIONS. HERBICIDES SHALL BE INCORPORATED INTO THE SOIL AT THE RECOMMENDATION OF THE MANUFACTURER.
- 21. APPLY ORGANIC ROOT STIMULATOR, CONTINUING MYCORHIZZAE, TO ALL TREES PRIOR TO BACKFILLING. APPLY AT MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUBMIT SAMPLES OF ROOT STIMULATOR TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- 22. THE LANDSCAPE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PLANT INSTALLATIONS UNTIL ACCEPTED BY THE OWNER. MAINTENANCE SHALL INCLUDE RE-MULCHING, WATERING, APPLICATIONS OF HERBICIDES, FUNGICIDES, INSECTICIDES AND PESTICIDES AS NECESSARY. MAINTENANCE SHALL INCLUDE ALL TREES, SEEDED AREAS AND SOD.
- 23. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE THAT ALL TREES SHALL BE IN A HEALTHY AND THRIVING CONDITION ACCORDING TO THE NATURAL GROWTH HABITS OF THE INDIVIDUAL SPECIES AT THE TIME OF THE PROJECT COMPLETION.

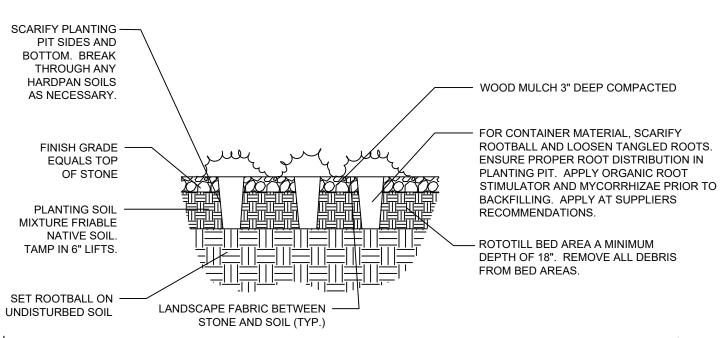
GENERAL LANDSCAPE AND SEEDING NOTES:

DESIGN BUILD CONTRACTOR.

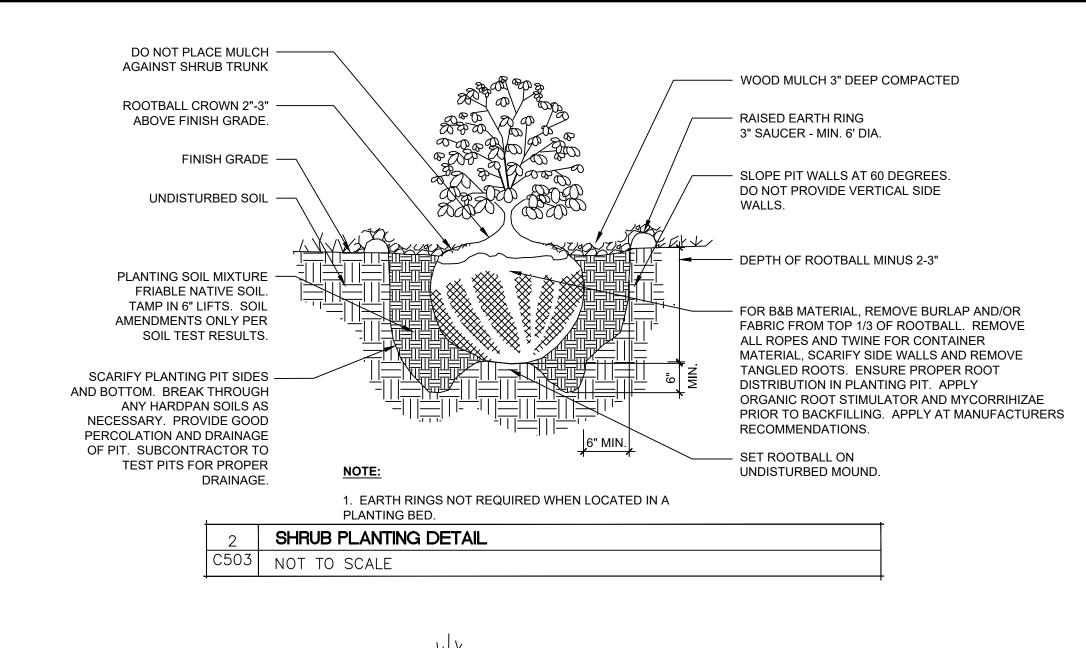
- . SCARIFY, LOOSEN, FLOAT AND DRAG THE UPPER FOUR INCHES (4") OF SOIL TO BRING IT TO PROPER CONDITION AND GRADE PRIOR TO SEEDING / SODDING. REMOVE STONES LARGER THAN ONE INCH (1"), STICKS, ROOTS, RUBBISH, ETC. FINISHED GRADE SHALL BE LOOSE AND FREE DRAINING PRIOR TO SEEDING / SODDING.
- 2. STRIP EXISTING GRASS AND WEEDS, INCLUDING ROOTS, PRIOR TO SEEDING. APPLY HERBICIDES AS NECESSARY TO SPOT TREAT UNWANTED SPECIES.
- 3. INSTALL SEED PER THE WRITTEN SPECIFICATIONS. LANDSCAPE SUBCONTRACTOR MUST ADJUST
- APPLICATION RATES TO PURE LIVE SEED RATES AS INDICATED.

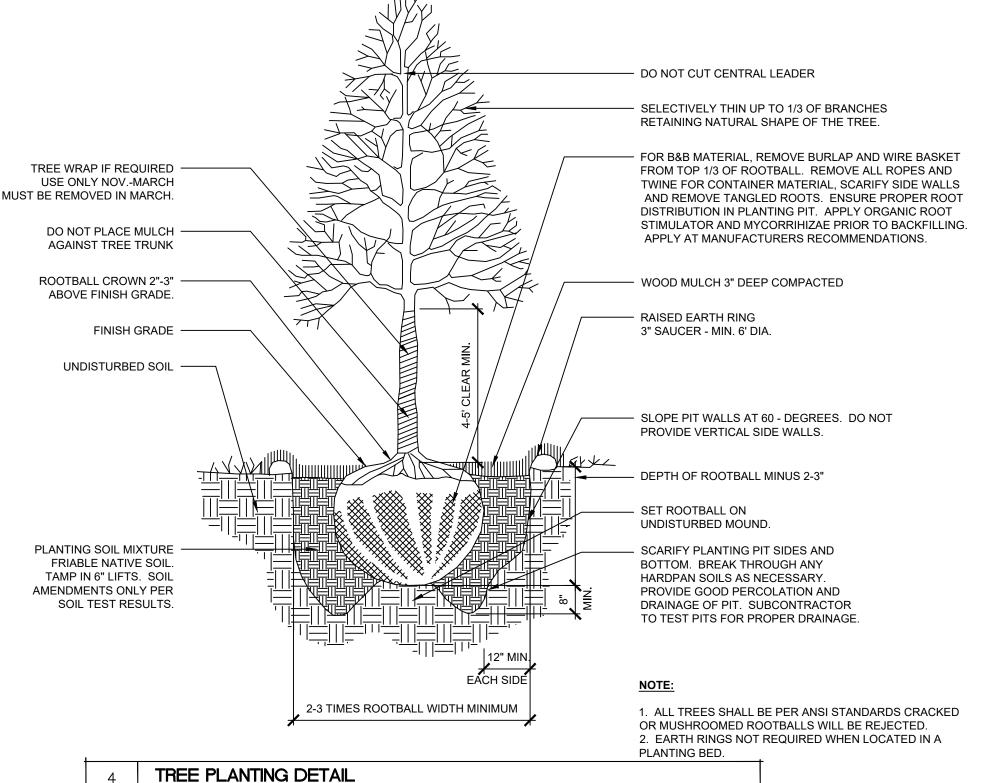
 4. ALL SEEDED AREAS MUST BE MAINTAINED BY THE LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE











NOT TO SCALE



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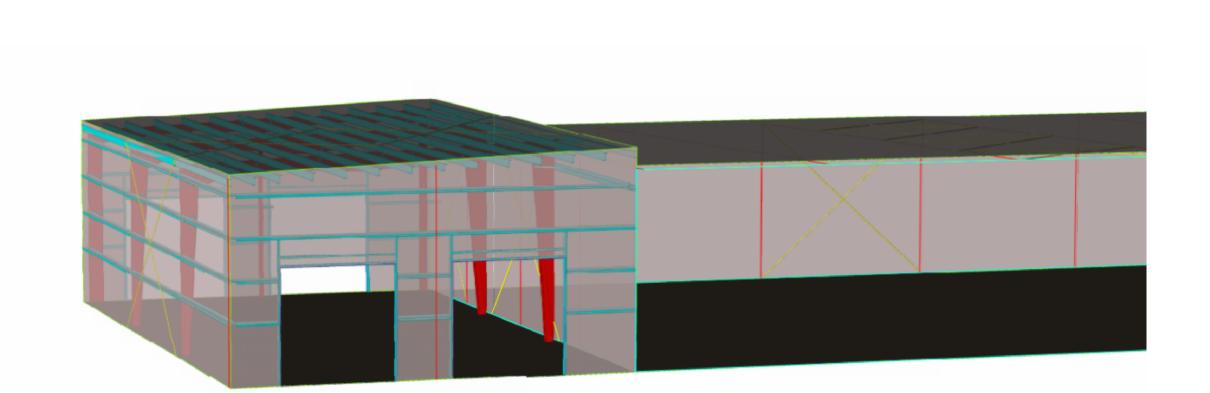
PROJECT NO:	2023-045
SCALE:	N/A
DRAWN BY:	MT
DESIGNED BY:	MJC
CHECKED BY:	MJC
DATE ISSUED:	11-14-2023

FION BUILDING ADDITION

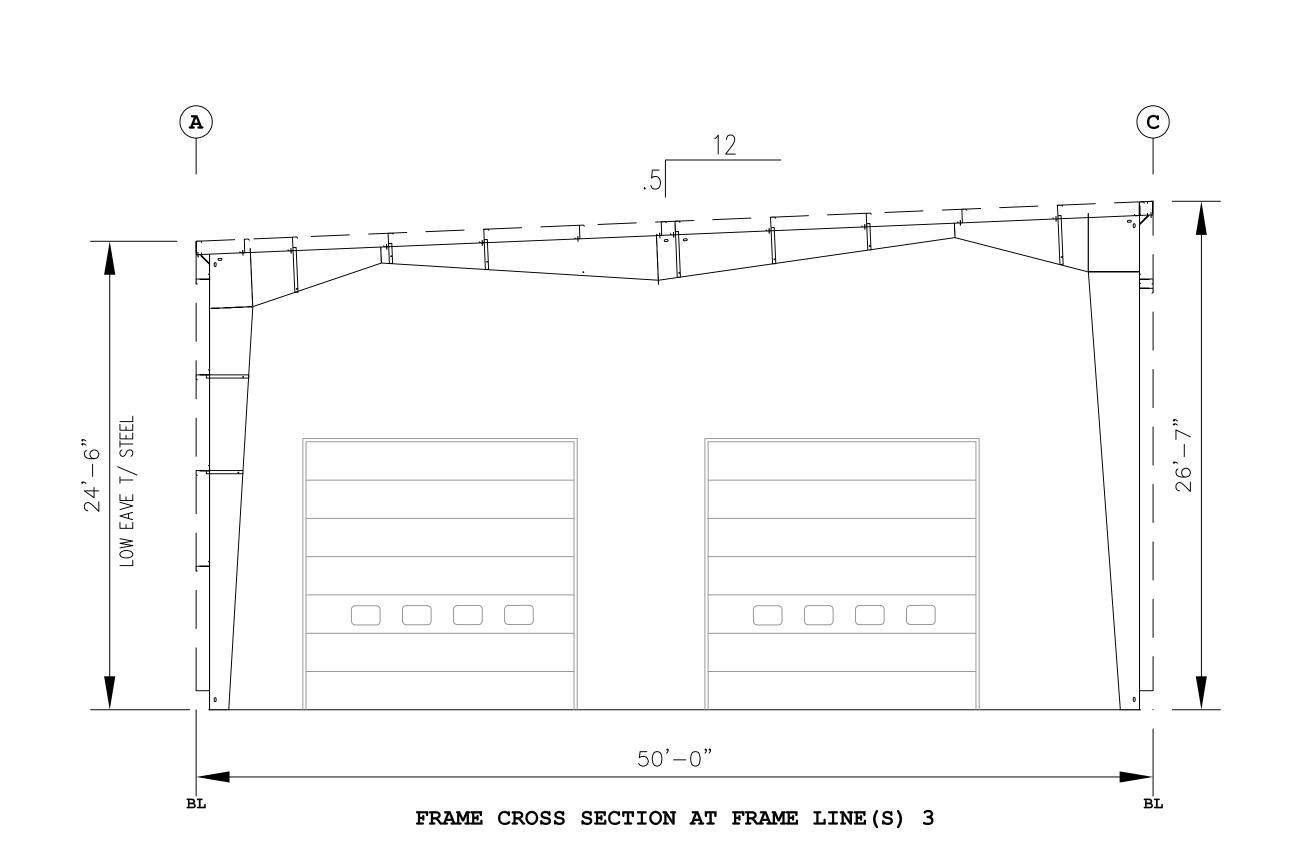
SITE DETAILS
HALE TRANSPORTATION E
1067 MARBLE STREET
CITY OF WATERTOWN, JEI

LAST REVISED: NA

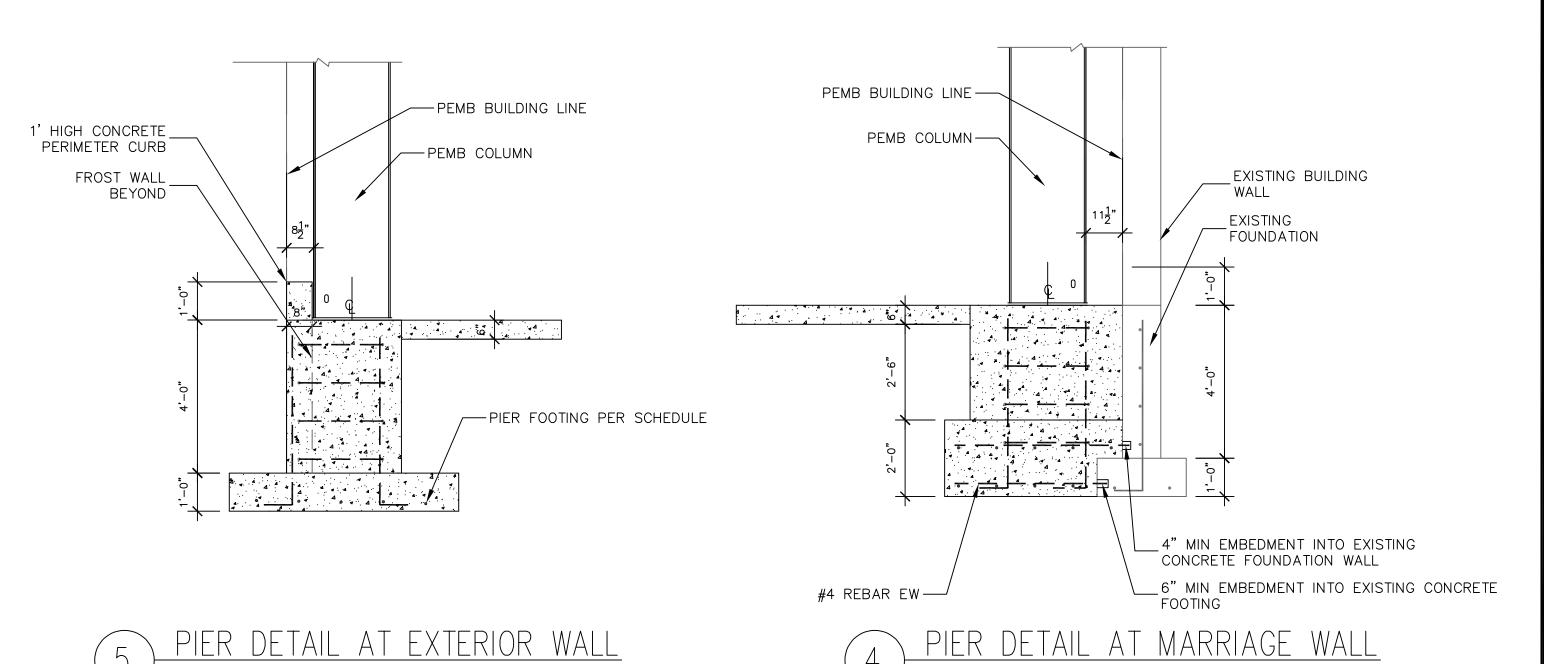
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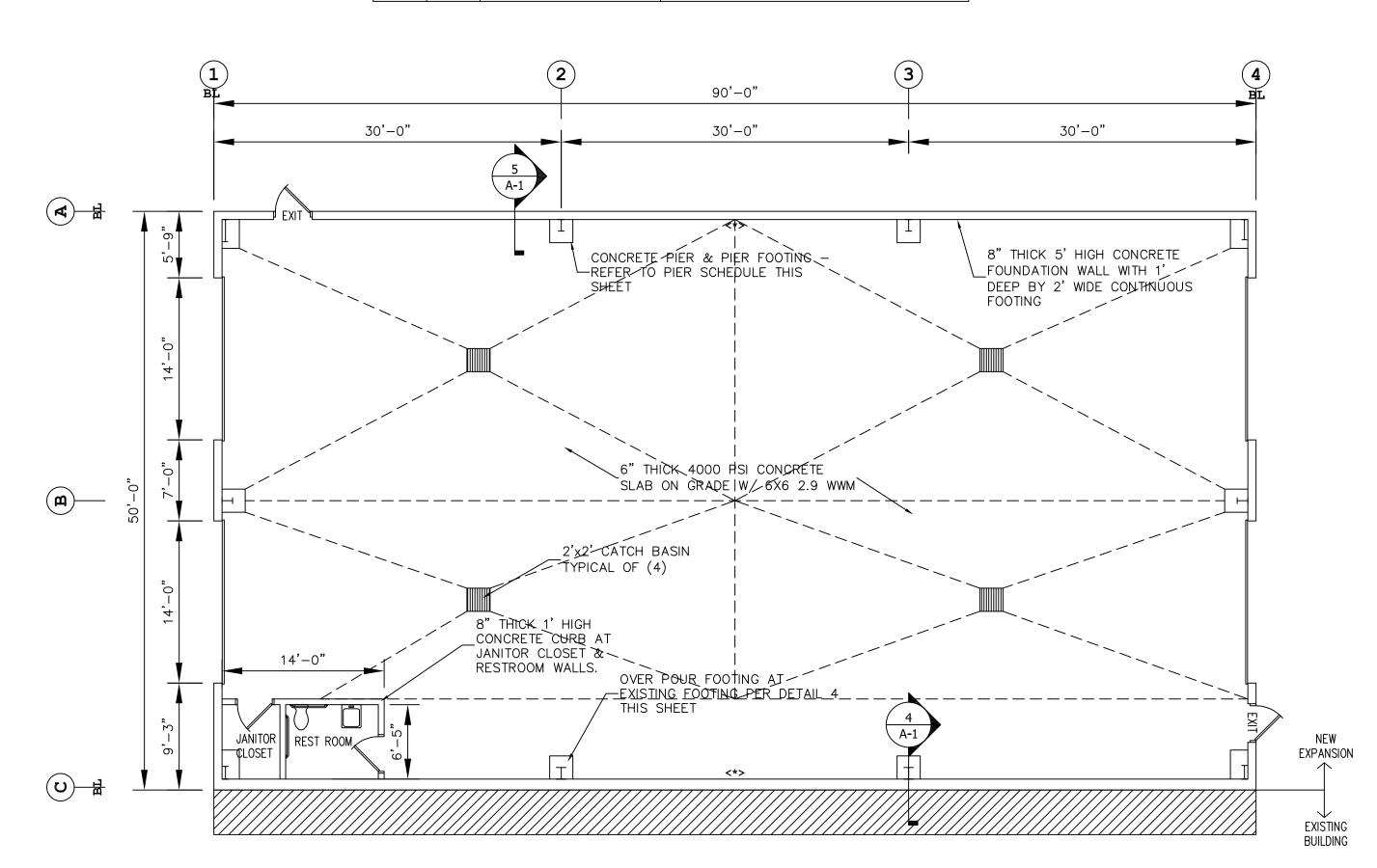
BUILDING 3E SCALE: NTS







PIER AND PIER FOOTING SCHEDULE					
COUNT	TYPE	SIZE	REINFORCING		
6	P1	2'X2'X4'	(10) #6 BAR VERTICAL W/ #3 TIES @12"OC		
6	F1	6'X6'X1'	(8) #5 BAR EACH WAY		
4	P2	2'-6"X2'-6"X4'	(10) #6 BAR VERTICAL W/ #3 TIES @12"OC		
4	F2	7'X7'X1'	(9) #5 BAR EACH WAY		



1 LAYOUT PLAN
SCALE: 1/8"= 1'-0"



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DRAWING WITHOUT EXPRESSED WRITTEN
CONSENT IS PROHIBITED

NO.	REVISIONS	DATE
/		

PROJECT TITLE:
HALE SHOP EXPANSION
PROJECT LOCATION:
1067 MARBLE ST. WATERTOWN, NY 1360
DRAWING TITLE:
LAYOUT PLAN
PROJECT NUMBER: 000000

PROJECT NUMBER: 000000

DATE: 08-31-23

DRAWN BY: BWS

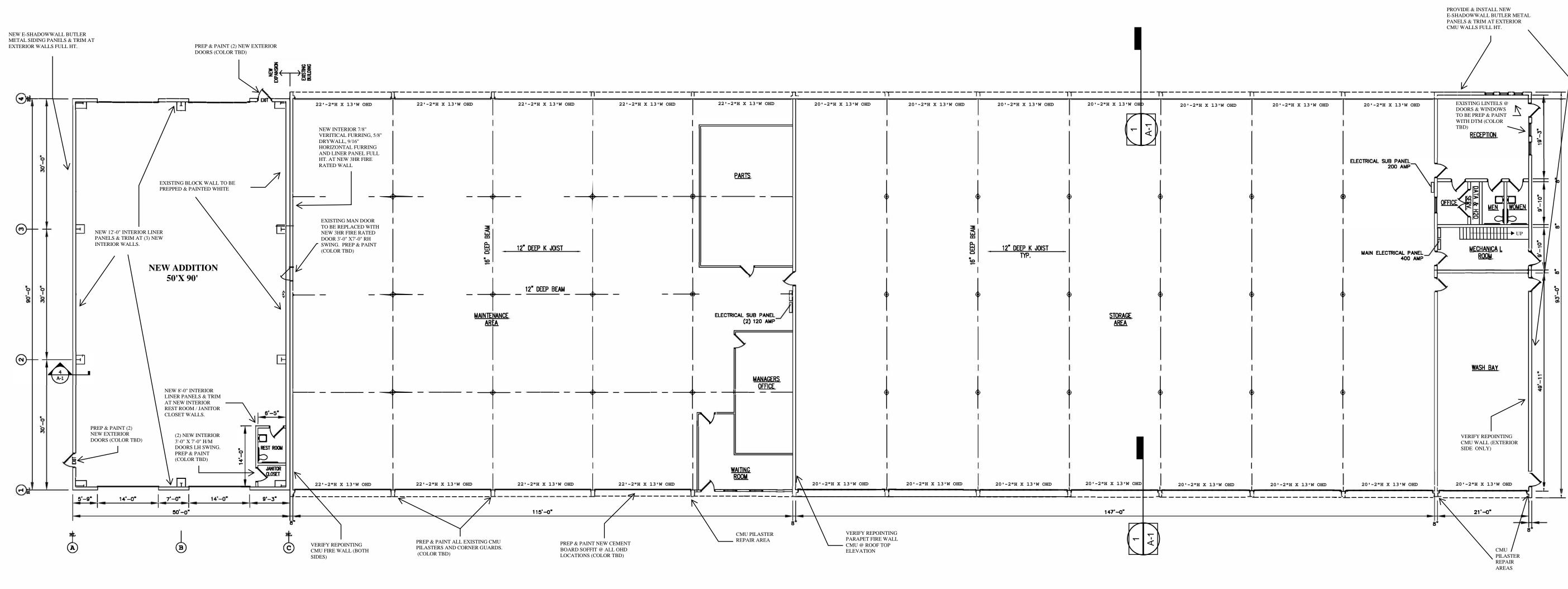
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A-1

SCALE:

AS NOTED

SHEET SIZE 24" x 36"



NEW ADDITION FRAMING/FINISH NOTES:

PROVIDE & INSTALL NEW ESHADOW WALL BUTLER METAL SIDING PANELS TO NEW EXTERIOR WALLS.

PROVIDE & INSTALL NEW 12'-0" LINER PANEL TO (3) INTERIOR WALLS OF NEW ADDITION.

PROVIDE & INSTALL NEW 8'-0" LINER PANEL TO NEW RESTROOM WALLS AND JANITOR CLOSET.

PROVIDE & INSTALL (1) NEW 3 HR FIRE RATED H/M DOOR AND FRAME 3'-0" X 7'-0" AT MARRIAGE WALL TO REPLACE THE EXISTING DOOR. PREP & PAINT (COLOR TBD)

PROVIDE & INSTALL (2) NEW H/M DOORS AND FRAMES 3'-0" X 7'-0" AT NEW REST ROOM AND JANITOR CLOSET. ADA HAND-CAP REST ROOM DOOR TO BE PRIVACY LEVER WITH CLOSURE. PREP & PAINT (COLOR TBD)

PROVIDE & INSTALL (2) NEW H/M DOORS AND FRAMES 3'-0" X 7'-0" AT EXTERIOR. PREP & PAINT (COLOR TBD)

EXISTING BUILDING FRAMING/FINISH NOTES:

REMOVE ALL EXISTING OVERHEAD DOOR OVERHANGS & DISPOSE.

REMOVE ALL EXISTING OVERHEAD DOORS, OPERATORS AND HARDWARE. INSTALL NEW OVERHEAD DOORS, OPERATORS & HARDWARE. (EQ. SIZE)

RESTORE DAMAGED CMU PILASTERS & RE-POINT ANY DAMAGED MORTAR JOINTS AT CMU BLOCK (V.I.F. MORTAR JOINTS @ 3 LOCATIONS - ROOF ELEVATION FIRE WALL, EXTERIOR SOUTH ELEVATION (MARRIAGE WALL), EXTERIOR NORTH/WEST ELEVATIONS).

PROVIDE & INSTALL NEW E-SHADOWWALL BUTLER METAL PANELS TO EXISTING CMU WALLS AT BOTH NORTH AND WEST ELEVATIONS. (COLOR TBD)

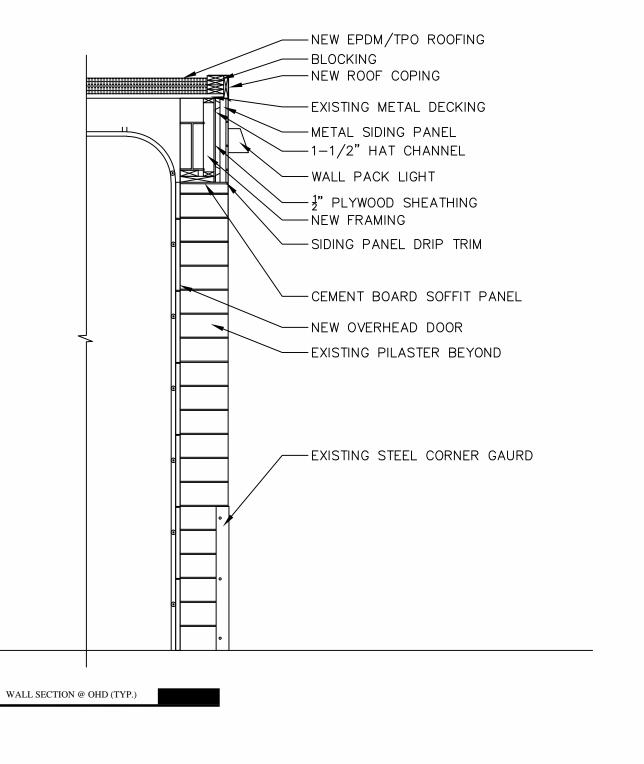
PROVIDE & INSTALL NEW VERTICAL E-SHADOWWALL BUTLER METAL PANELS ABOVE NEW OVERHEAD DOORS. SEE ATTACHED WALL SECTION AT OHD. INSTALL NEW LT. GAUGE OR 2X FRAMING, 1/2" ZIP SHEATHING, 1-1/2" HAT CHANNEL FRAMING PRIOR TO NEW VERTICAL METAL PANELS. (COLOR TBD)

PROVIDE & INSTALL NEW 7/8" VERTICAL HAT CHANNEL FRAMING, 1 SINGLE LAYER OF 5/8"DRYWALL (TAPED 1ST COAT), 9/16" RESILIENT HAT OR Z-FURRING CHANNEL HORIZONTAL FRAMING, METAL LINER PANEL FULL HT. AT NEW INTERIOR FIRE RATED WALL *MARRIAGE WALL* (COLOR TBD)

PROVIDE & INSTALL NEW HARDIE CEMENT BOARD SOFFIT BETWEEN CMU PILASTERS. PRIME & PAINT (COLOR TBD)

PREP & PAINT WINDOW & DOOR LINTELS WITH DTM PAINT AT RECEPTION AREA. (COLOR TBD)

NO WORK AT EXISTING OFFICE SPACE, RECEPTION, OR EXISTING BATHROOMS.

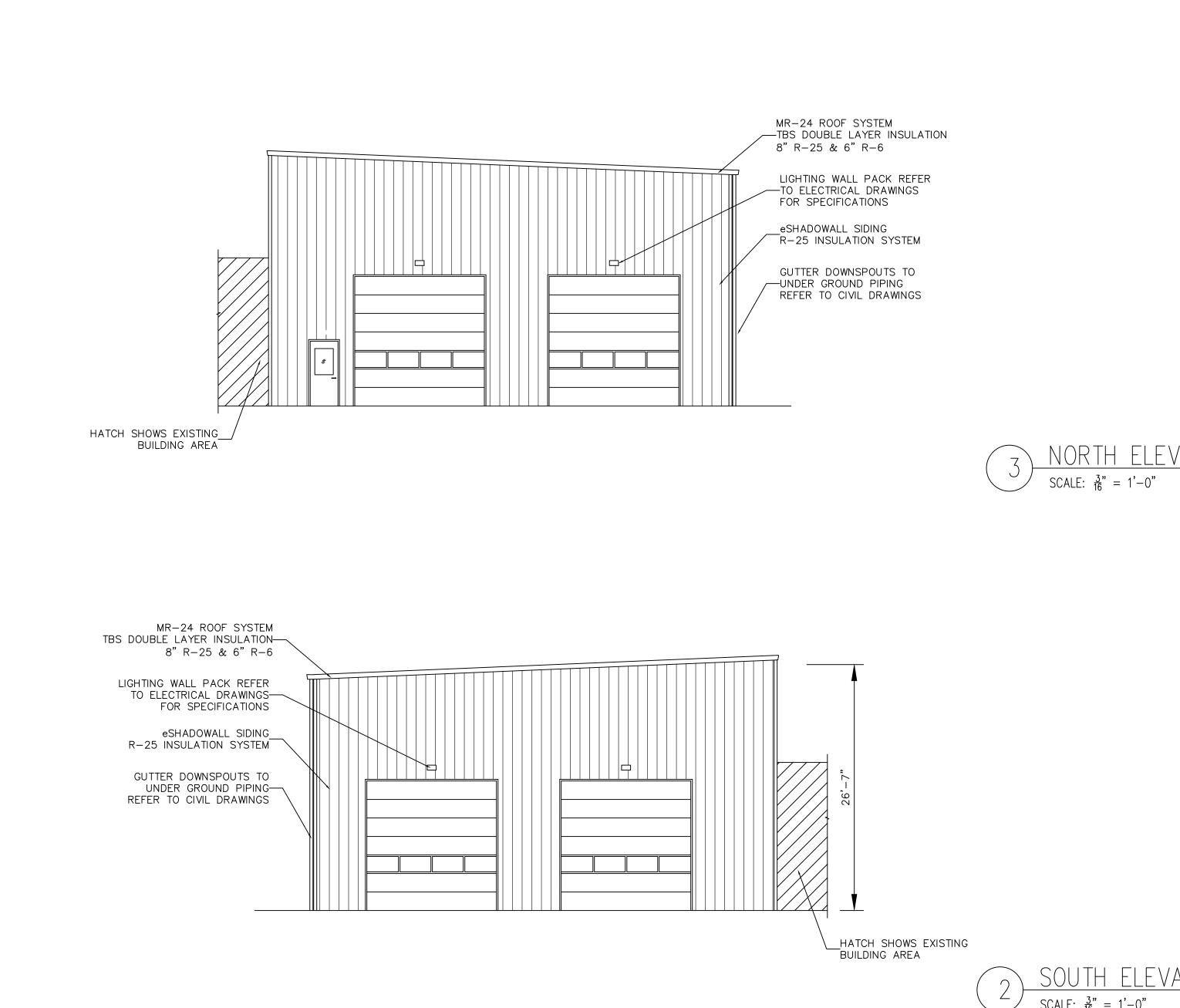


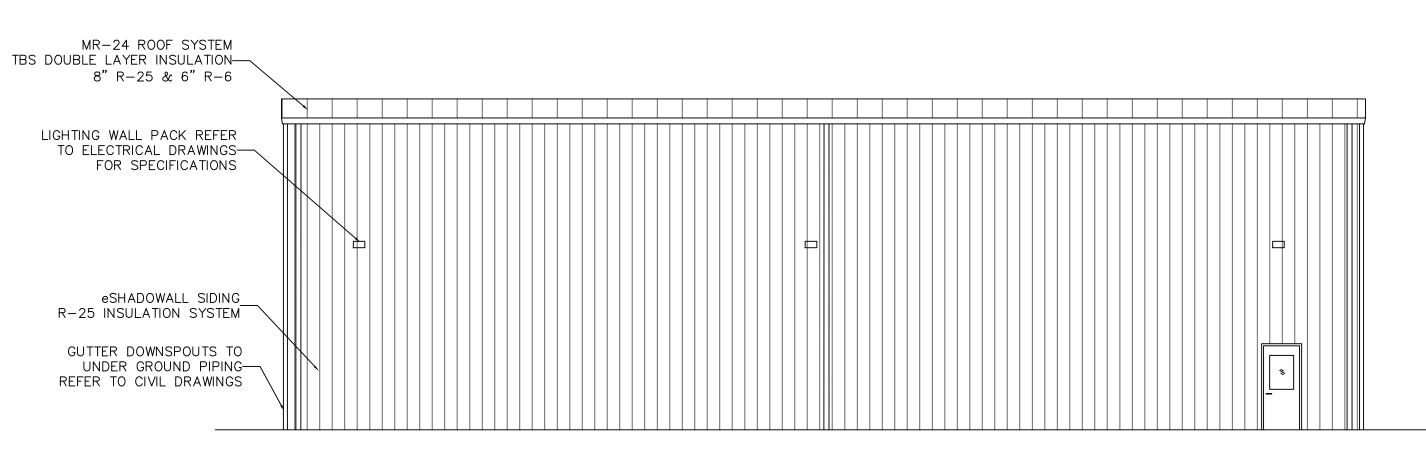


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NO.	REVISIONS	DATE	
<u> </u>			
2			

PROJECT TITLE:		
HALE SHOP EXPANSION		
PROJECT LOCATION:		
1067 MARBLE WATERTOWN, NY		
DRAWING TITLE:		
OVERALL PLA	4N	
PROJECT NUMBER:	000000	
DATE:	08-31-23	
DRAWN BY:	BWS	
CHECKED BY:	DLK	
A-2		
SCALE:	NTS	





WEST ELEVATIO

SCALE: $\frac{3}{16}$ " = 1'-0"



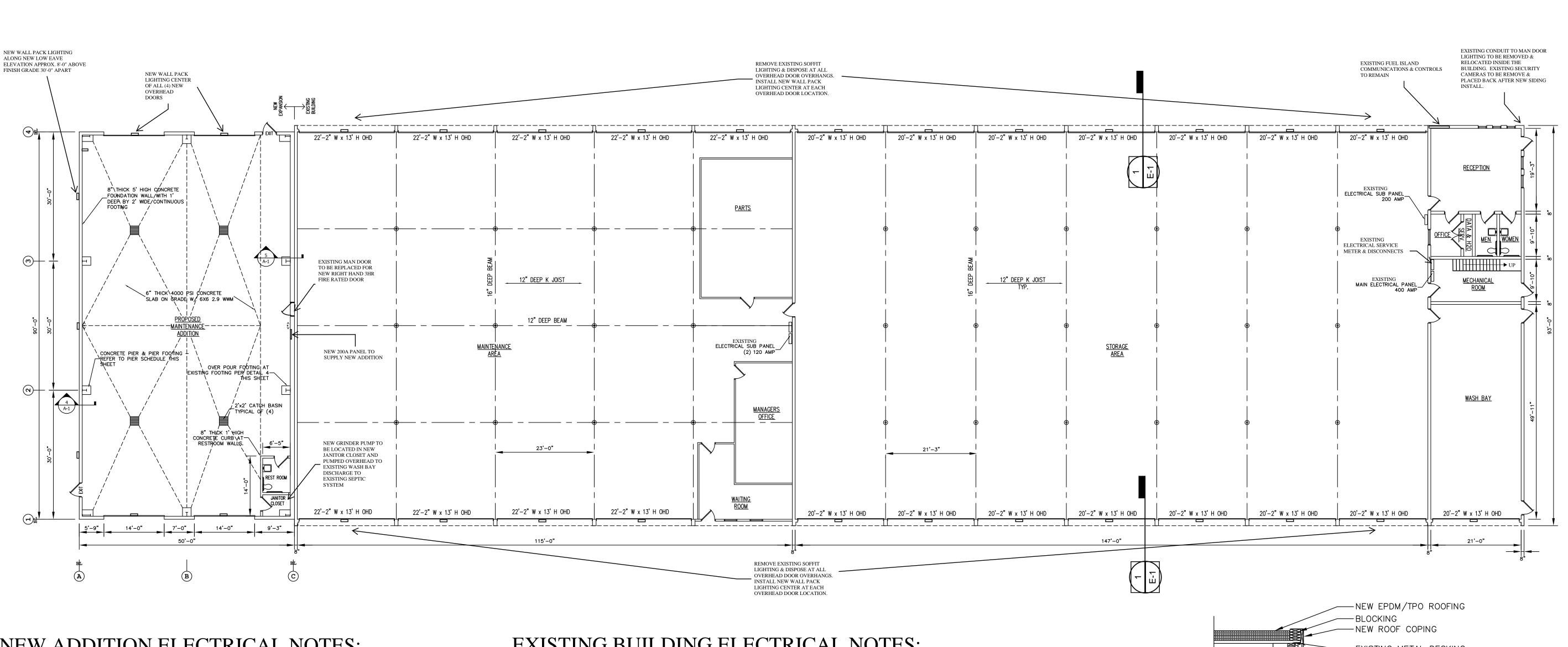
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NO.	REVISIONS	DATE

	PROJECT TITLE:	
	HALE SHEET EXPANSION	• -
Ш	PROJECT LOCATION:	
	1067 MARBL WATERTOWN,	
Ш	DRAWING TITLE:	
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П	PROJECT NUMBER:	000000
П	DATE:	10-10-23
П	DRAWN BY:	BWS
П	CHECKED BY:	DLK
I	A-3	

SCALE:

NTS



NEW ADDITION ELECTRICAL NOTES:

NEW PROPOSED 200A SERVICE PANEL TO BE LOCATED ON 3-HR FIRE RATED WALL PIPED FROM EXISTING MECHANICAL ROOM. (NEW 3HR FIRE RATED MARRIAGE WALL - EXISTING BUILDING TO NEW ADDITION)

HIGH BAY LIGHT FIXTURES - NEW LIGHTING TO ACCOMODATE A TOTAL OF 4,650 SQ FT OF SPACE.

SURFACE MOUNTED FIXTURES - NEW LIGHTING TO ACCOMODATE NEW RESTROOM AND JANITOR CLOSET.

OVERHEAD STANDARD DUTY DOOR OPERATORS - POWER REQUIREMENTS: SINGLE PHASE 115/208/230V (1/2 HP OPERATORS) SUPPLY & INSTALL RECEPTACLE FOR EACH OVERHEAD DOOR (4) TOTAL.

HEATING & VENTILATION - <u>POWER REQIREMENTS: 208V/3-PHASE POWER</u> ROOFTOP DIRECT FIRE NATURAL GAS CAMBRIDGE HEATING UNIT/MAKE-UP AIR UNIT SIZED BY MEP ENGINEER.

NEW RECEPTACLE & SWITCHING TO ACCOMODATE 4,650 SQ FT OF SPACE. ADD (1) QUAD OUTLET RECEPTACLE TO EACH COLUMN. FOUR WAY SWITCHING FROM (3) DOOR LOCATIONS.

NEW EXIT SIGN DEVICES OVER EACH EXIT DOOR.

POWER SUPPLY FOR NEW EXHAUST FAN IN ADA UNISEX BATHROOM.

TIE-IN NEW SECURITY CAMERAS INTO EXISTING SECURITY SYSTEM.

SEPERATE DEDICATED CIRCUIT FOR NEW GRINDER PUMP AT JANITOR CLOSET.

SUPPLY & INSTALL NEW WALL PACK LIGHTING. TOTAL OF 7 FIXTURES.

TIE-IN NEW FIRE ALARM TO EXISTING FIRE ALARM SYSTEM.

EXISTING BUILDING ELECTRICAL NOTES:

ALTERNATE PRICE: NEW LIGHT FIXTURES - NEW LIGHTING TO ACCOMODATE A TOTAL OF 10,695 SQ FT OF EXISTING SPACE @ MAINTENANCE AREA.

ALTERNATE PRICE: NEW LIGHT FIXTURES - NEW LIGHTING TO ACCOMODATE A TOTAL OF 13,671 SQ FT OF EXISTING SPACE @ STORAGE AREA.

ALTERNATE PRICE: NEW LIGHT FIXTURES - NEW LIGHTING TO ACCOMODATE A TOTAL OF 1,050 SQ FT OF EXISTING SPACE @ WASH BAY AREA.

OVERHEAD TROLLEY SYLE OPERATORS - POWER REQUIREMENTS: THREE PHASE 208/230/460V (3/4 HP OPERATORS). VERIFY EXISTING RECEPTACLE FOR EACH OVERHEAD DOOR ACCOMODATES NEW OPERATORS (24) TOTAL.

RECEPTACLE & SWITCHING TO BE EVALUATED (IF FUTURE LIGHTING IS TO OCCURS.)

REMOVE EXISTING SOFFIT LIGHTING & DISPOSE AT ALL OVERHEAD DOOR OVERHANG STRUCTURES.

PROVIDE & INSTALL NEW WALL PACK LIGHTING. (1) FIXTURE OVER EACH OVERHEAD DOOR.

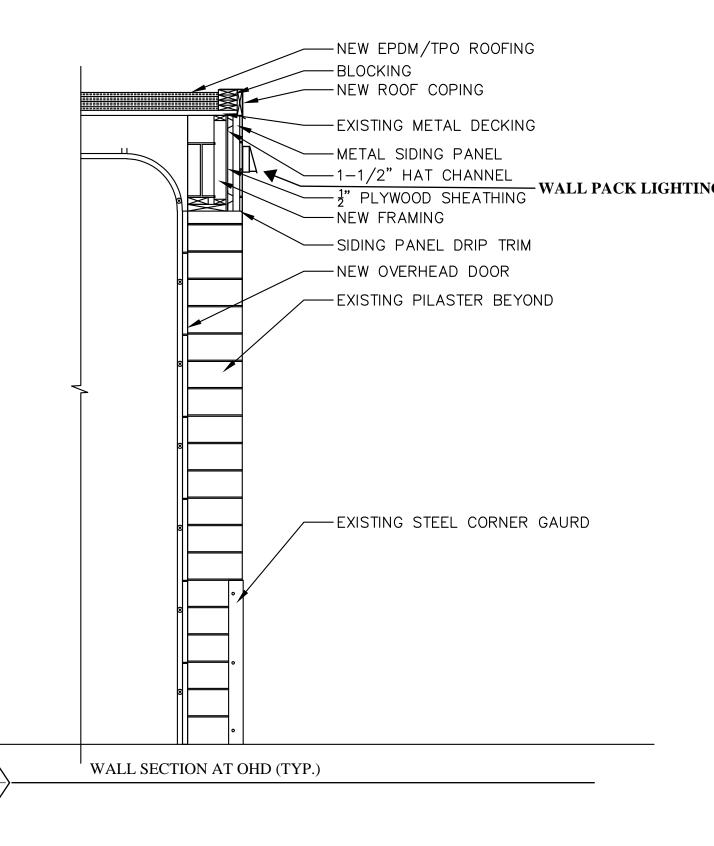
REMOVE EXISTING CONDUIT FOR MAN DOOR LIGHTS. RELOCATE TO INSIDE THE BUILDING.

REMOVE & RE-MOUNT EXISTING SECURITY CAMERAS. (NEW RECEPTION AREA EXTERIOR AND EXTERIOR ENDWALL WILL BE FURRED OUT AND SIDED WITH NEW BUTLER SIDING PANELS.)

REMOVE EXISTING CABLE AND POWER SUPPLY TO FSS COMMUNICATION TOWER AT ROOFTOP. REMOVAL FROM STREET TO BUILDING AND TERMINATED AT BUILDING FROM TOWER.

TIE-IN NEW SECURITY CAMERAS INTO EXISTING SECURITY SYSTEM.

NO WORK AT EXISTING OFFICE SPACE, RECEPTION, OR EXISTING BATHROOMS.

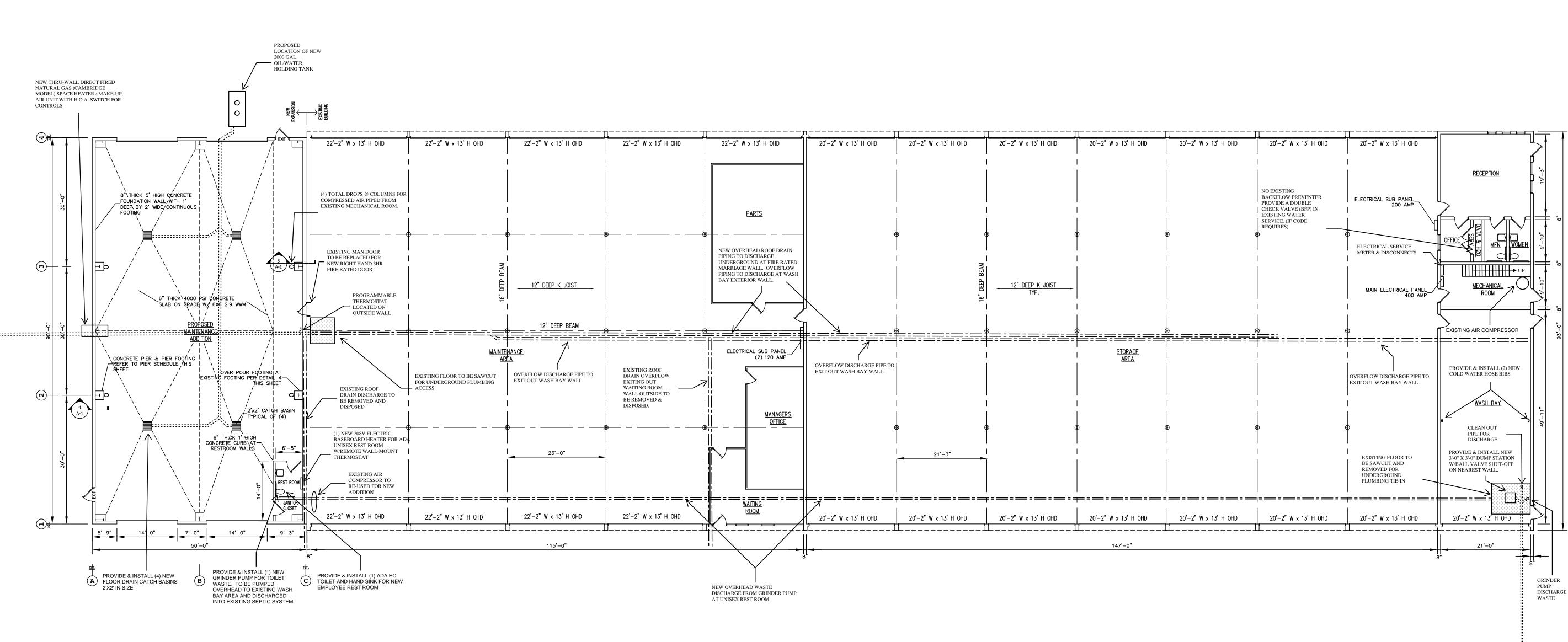




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PROJECT TITLE:	
HALE SHO	P
EXPANSIO	
PROJECT LOCATION:	
1067 MARBLE WATERTOWN, N	_
DRAWING TITLE:	
OVERALL	
ELECTRICAL P	PLAN
PROJECT NUMBER:	000000
DATE:	08-31-23
DRAWN BY:	BWS
CHECKED BY:	DLK
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I CONIE.	MTC



NEW ADDITION MECHANICAL/PLUMBING NOTES:

NEW PROPOSED THRU-WALL DIRECT FIRED NATURAL GAS SPACE HEATER / MAKE-UP AIR UNIT TO BE LOCATED CENTER OF NEW ADDITION. SIZE TBD BY MEP ENGINEER FOR 4,650 SQ FT SPACE.

NEW PROGRAMMABLE THERMOSTAT LOCATED AT OUTSIDE WALL FOR UNIT HEATER.

(1) NEW 208V ELECTRIC BASEBOARD HEATER FOR ADA UNISEX BATHROOM. TO HAVE REMOTE WALL-MOUNT THERMOSTAT.

COMPRESSED AIR PIPING WITH (4) NEW DROPS AT COLUMNS. THESE DROPS WILL BE PIPED FROM EXISTING COMPRESSOR LOCATED NEAR OVERHEAD DOOOR AT MARRIAGE WALL IN EXISTING BUILDING.

PROVIDE & INSTALL (4) NEW FLOOR DRAIN STRUCTURES AND PIPE OUT INTO NEW OIL/WATER HOLDING TANK SIZED BY ENGINEER.

PROVIDE & INSTALL (1) ADA UNISEX TOILET AND HAND SINK IN NEW EMPLOYEE REST ROOM.

PROVIDE & INSTALL (1) NEW GRINDER PUMP PIPING DISCHARGE WASTE TO EXISTING SEPTIC SYSTEM.

EXISTING BUILDING MECHANICAL/PLUMBING NOTES:

DETERMINE IF EXISTING COMPRESSOR TANK IS SIZED APPROPRIATE TO HANDLE COMPRESSED AIR FOR NEW ADDITION.

PROPOSE DOUBLE CHECK VALVE BACKFLOW PREVENTER. (IF REQUIRED BY WATERTOWN WATERBOARD)

ALTERNATE PRICE: INSTALL REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH 4" RELIEF DRAIN (IF REQUIRED BY WATERTOWN WATERBOARD)

PROVIDE & INSTALL (1) NEW DUMP STATION APPROXIMATELY 3'-0" X 3'-0" IN SIZE. LOCATE (1) BALL VALVE SHUT-OFF TO CONTROL WASH OUT OF NEW DUMP STATION ON NEAREST WALL. DISCHARGE FOR DUMP STATION INTO EXISTING SEPTIC SYSTEM.

PROVIDE & INSTALL (2) COLD WATER HOSE BIBS AT WASH BAY CENTER OF EACH LONG WALL.

REMOVE EXISTING CAST/PVC ROOF DRAIN PIPING IN ITS ENTIRETY AND DISPOSE. RE-PIPE FROM EXISTING (4) ROOF DRAIN LOCATIONS WITH NEW DISCHARGE WASTE PIPING AND DUAL OVERFLOW PIPING.

DISCHARGE OF ROOF DRAIN SYSTEM WILL DRAIN TO FIRE RATED MARRIAGE WALL. FROM THIS LOCATION, PIPING WILL TURN DOWN THE MARRIAGE WALL AND EXIT UNDERGROUND UNDER THE NEW ADDITION SLAB INTO THE NEW DETENSION AREA.

OVERFLOW DISCHARGE WASTE WILL BE REVERSE PITCHED BACK TO THE WASH BAY AREA AND DRAIN OUT THE EXTERIOR WALL.



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NO.	REVISIONS	DAT

PROJECT TITLE:
HALE SHOP EXPANSION
PROJECT LOCATION:
1067 MARBLE ST. WATERTOWN, NY 136
DRAWING TITLE:
OVERALI

OVERALL
MECHANICAL PLAN

PROJECT NUMBER: 000000

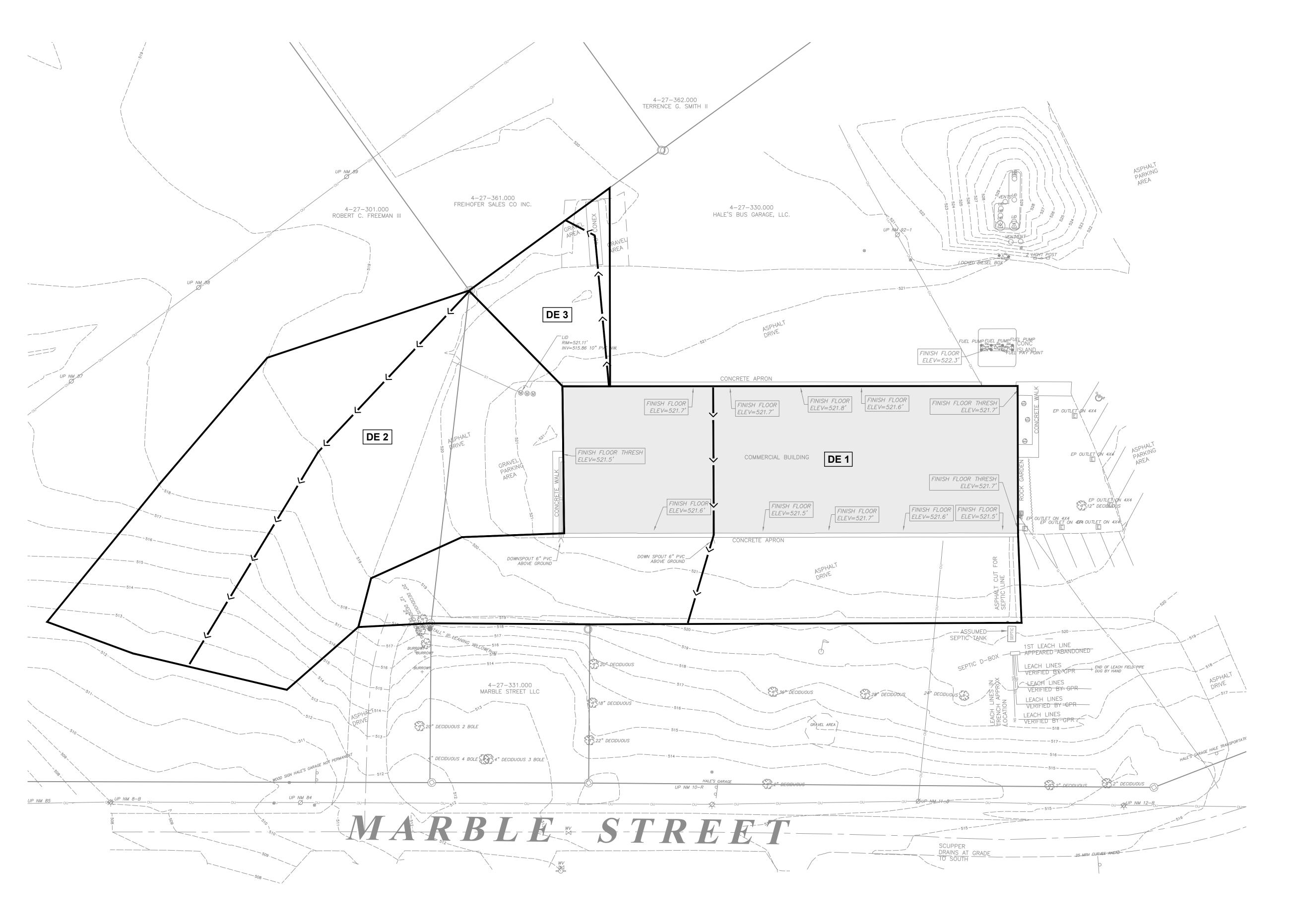
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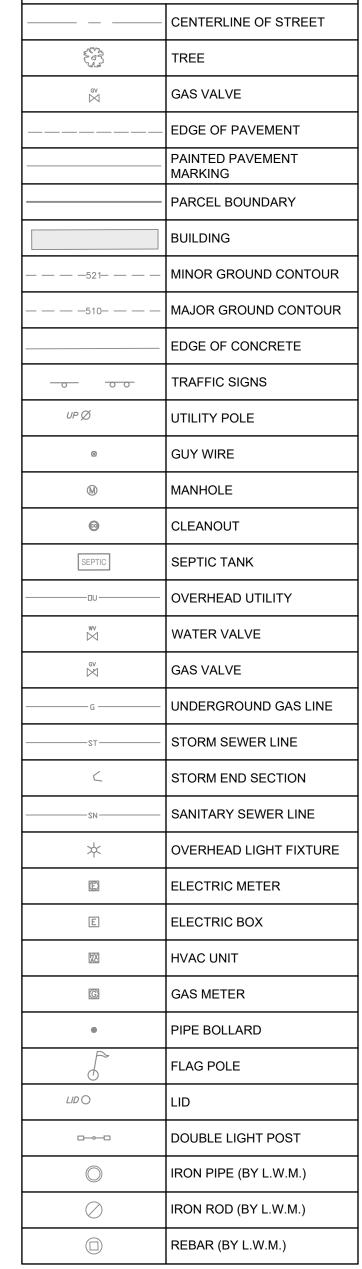
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CHECKED BY: DLK

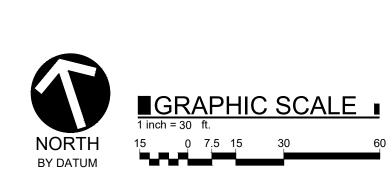
SCALE:

NTS





EXISTING LEGEND



DRAINAGE LEGEND

EXISTING TC PATH

EXISTING DRAINAGE AREA



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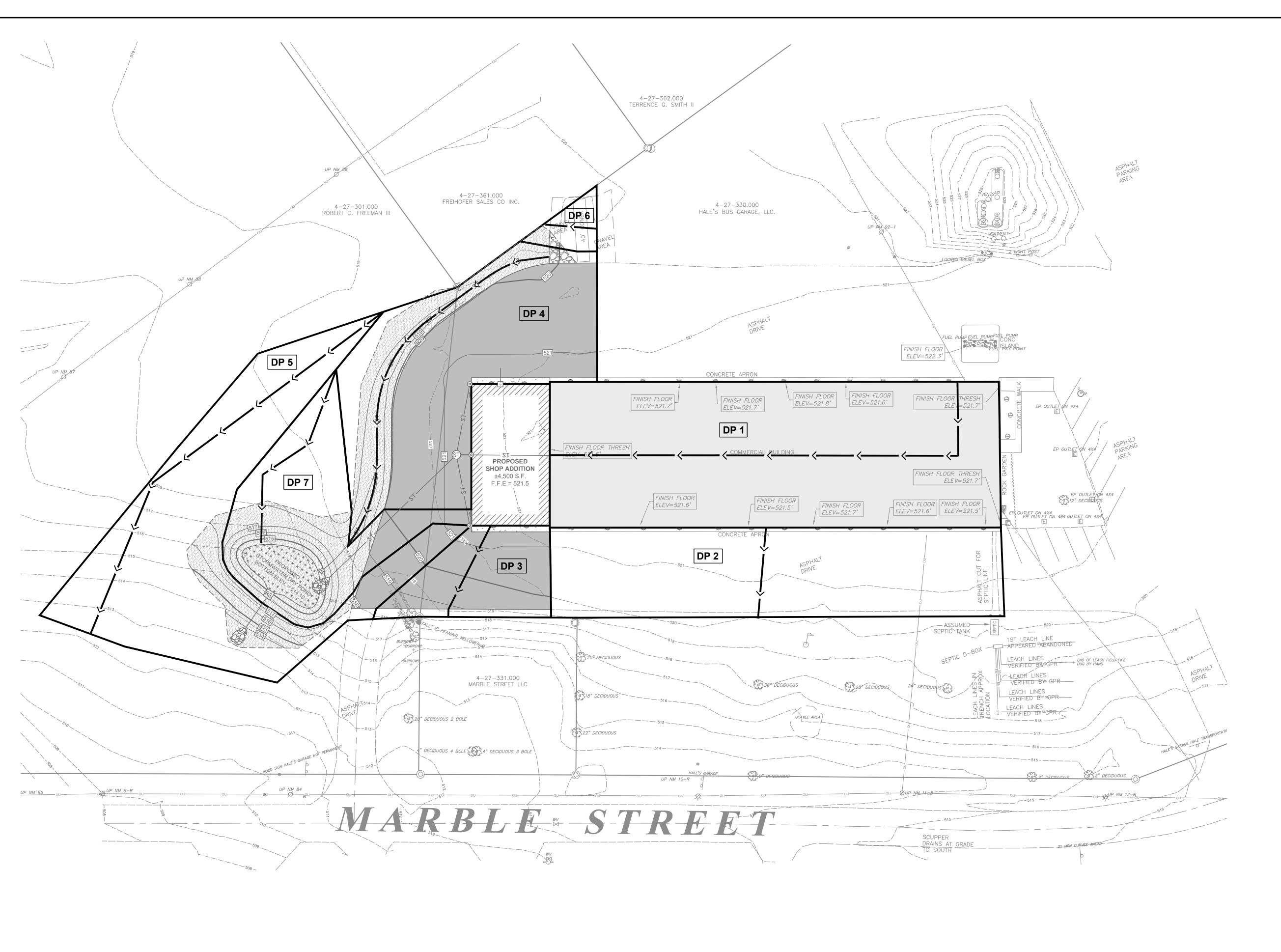
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OF ALTERATION.

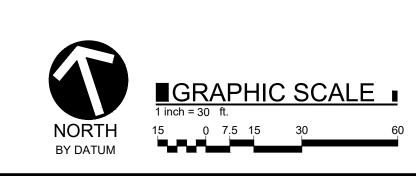
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SCALE:	1" = 30	
DRAWN BY	:	МТ
DESIGNED	BY:	MJC
CHECKED I	3Y:	MJC
DATE ISSU	ED:	11-14-2023

EXISTING DRAINAGE PLAN

FOR APPROVALS ONLY NOT FOR CONSTRUCTION



LAIS	TING LEGEND
nt ^a lin	CENTERLINE OF STREET
£ 35 5	TREE
ĞV ⊠	GAS VALVE
	— EDGE OF PAVEMENT
	PAINTED PAVEMENT MARKING
	PARCEL BOUNDARY
	BUILDING
	MINOR GROUND CONTOUR
— — — —510— —	— MAJOR GROUND CONTOUR
	EDGE OF CONCRETE
-0 00	TRAFFIC SIGNS
UP Ø	UTILITY POLE
8	GUY WIRE
(M)	MANHOLE
©	CLEANOUT
SEPTIC	SEPTIC TANK
	OVERHEAD UTILITY
₩V 	WATER VALVE
GV	GAS VALVE
G	UNDERGROUND GAS LINE
T2	STORM SEWER LINE
<	STORM END SECTION
	— SANITARY SEWER LINE
*	OVERHEAD LIGHT FIXTURE
E	ELECTRIC METER
E	ELECTRIC BOX
	HVAC UNIT
G	GAS METER
•	PIPE BOLLARD
5	FLAG POLE
LIDO	LID
□	DOUBLE LIGHT POST
	IRON PIPE (BY L.W.M.)
\bigcirc	IRON ROD (BY L.W.M.)
	REBAR (BY L.W.M.)



PROPOSED LEGEND

PROPOSED DRAINAGE AREA

PROPOSED TC PATH



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AND A SPECIFIC DESCRIPTION
OF ALTERATION.

PROJECT NO:	2023-045
SCALE:	1" = 30'
DRAWN BY:	MT
DESIGNED BY:	MJC
CHECKED BY:	MJC
DATE ISSUED:	11-14-2023

HALE TRANSPORTATION BUILDING ADDITION 1067 MARBLE STREET CITY OF WATERTOWN, JEFFERSON COUNTY, PROPOSED DRAINAGE PLAN

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APPENDIX B: STORM WATER CALCULATIONS



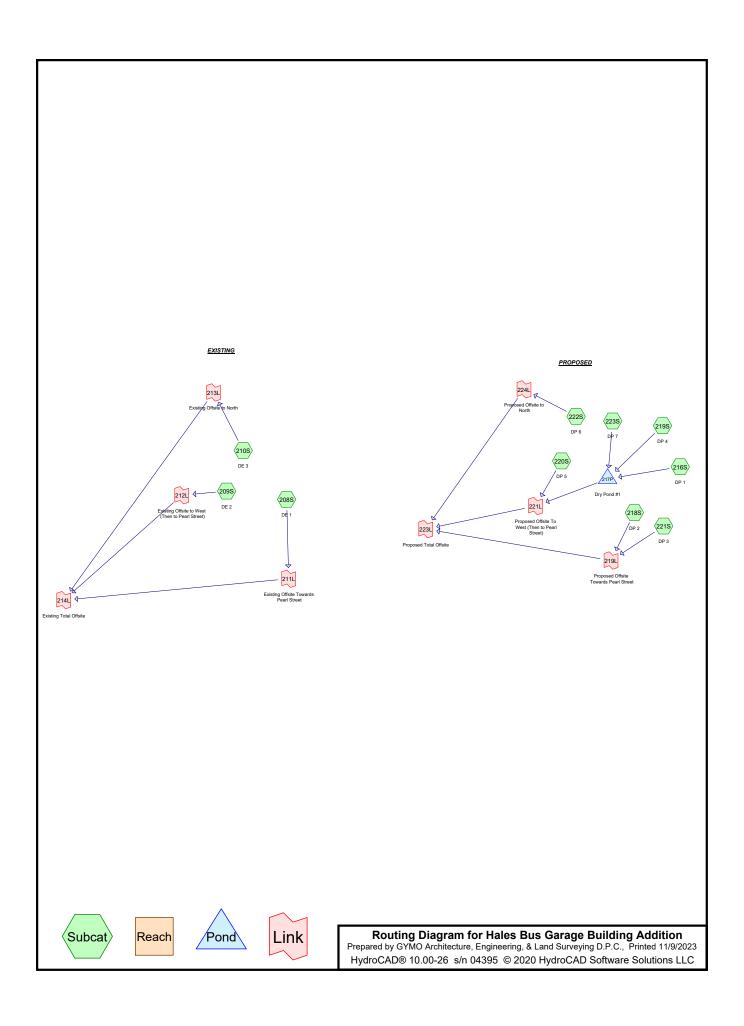
Equations and Constants					
WQv* =	P(Rv)(A)/12	P = 0.9			
Rv =	0.05 + 0.009(I)	1 ac-ft = 43560	ft³		
RRv =	P(Rv*)(Ai)/12	Rv* = 0.95			
Ai =	S(Aic)				

Reduction Fac	ctor S
HSG A	0.55
HSG B	0.4
HSG C	0.3
HSG D	0.2

	Hale's Transportation Building Addition Water Quality Calcs													
WQV & RR	V Provided													
D.A. #	Group A Soils (%)	Group B Soils (%)	Group C Soils (%)	Group D Soils (%)	Impervious Area (ac)	S	I (%)	Rv	A (ac)	WQv (ft³)	Aic (ac)	Ai (ac)	RRv Provided (ft³)	Description
DP 4	0.00	0.00	0.00	100.00	0.26	0.20	65.0	0.6350	0.40	830	0.26	0.05	. ,	Dry Swale, RRv = 20% WQv
WQV & RR	V Required (R	edevelopmer	it)											
D.A. #	Group A Soils (%)	Group B Soils (%)	Group C Soils (%)	Group D Soils (%)	Impervious Area (ac)	S	I (%)	Rv	A (ac)	WQv (ft³)	Aic (ac)	Ai (ac)	Min RRv (ft³)	Notes
Redev.	0.00	0.00	0.00	100.00	0.48	0.20	38.4	0.3956	1.25	404	0.48	0.10	0	Required WQv = 25% calc. WQv No required RRv for Redevelopment
New	0.00	0.00	0.00	100.00	0.04	0.20	100.0	0.9500	0.04	124	0.04	0.01	25	Proposed increase in impervious cove

	*WQv (ac-ft)	RRv (ac-ft)
Required	0.012	0.003
Provided	0.019	0.004

*Project involves both redevelopment of existing impervious and creation of new impervious. The goal is to treat 25% of the WQv from redeveloped impervious area, and 100% of the WQv from new impervious areas. This will be achieved by utilizing a Dry Swale to provide the required WQv and RRv.



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Area Listing (selected nodes)

Area	CN.	Description
(acres))	(subcatchment-numbers)
0.863	80	>75% Grass cover, Good, HSG D (208S, 210S, 218S, 219S, 220S, 221S, 222S, 223S)
3.128	98	Paved parking, HSG D (208S, 209S, 210S, 218S, 219S, 220S, 221S, 222S, 223S)
0.609	98	Unconnected roofs, HSG D (216S)
4.600	95	TOTAL AREA

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Soil Listing (selected nodes)

Area	Soil	Subcatchment
 (acres)	Group	Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
4.600	HSG D	208S, 209S, 210S, 216S, 218S, 219S, 220S, 221S, 222S, 223S
0.000	Other	
4.600		TOTAL AREA

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Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.863	0.000	0.863	>75% Grass cover, Good	208S,
							210S,
							218S,
							219S,
							220S,
							221S,
							222S,
							223S
0.000	0.000	0.000	3.128	0.000	3.128	Paved parking	208S,
							209S,
							210S,
							218S,
							219S,
							220S,
							221S,
							222S,
							223S
0.000	0.000	0.000	0.609	0.000	0.609	Unconnected roofs	216S
0.000	0.000	0.000	4.600	0.000	4.600	TOTAL AREA	

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Pipe Listing (selected nodes)

Line#	Node	In-Invert	Out-Invert	Length	Slope	n	Diam/Width	Height	Inside-Fill
	Number	(feet)	(feet)	(feet)	(ft/ft)		(inches)	(inches)	(inches)
1	216S	0.00	0.00	260.0	0.0100	0.013	15.0	0.0	0.0
2	217P	514.10	513.70	40.0	0.0100	0.013	12.0	0.0	0.0

Hales Bus Garage Building Addition

Type II 24-hr 1 Year Rainfall=2.10"

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Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 208S: DE 1	Runoff Area=48,988 sf 96.85% Impervious Runoff Depth>1.77" Flow Length=150' Tc=1.8 min CN=97 Runoff=3.66 cfs 0.166 af
Subcatchment 209S: DE 2	Runoff Area=44,803 sf 100.00% Impervious Runoff Depth>1.87" Flow Length=295' Tc=21.2 min CN=98 Runoff=1.92 cfs 0.160 af
Subcatchment 210S: DE 3	Runoff Area=6,446 sf 81.24% Impervious Runoff Depth>1.58" Flow Length=116' Tc=1.8 min CN=95 Runoff=0.45 cfs 0.019 af
Subcatchment 216S: DP 1	Runoff Area=26,535 sf 100.00% Impervious Runoff Depth>1.87" Flow Length=305' Tc=2.6 min CN=98 Runoff=1.99 cfs 0.095 af
Subcatchment 218S: DP 2 Flow Length=58	Runoff Area=16,373 sf 92.08% Impervious Runoff Depth>1.77" 3' Slope=0.0200 '/' Tc=1.5 min CN=97 Runoff=1.23 cfs 0.055 af
Subcatchment 219S: DP 4 Flow Length=245	Runoff Area=17,265 sf 66.70% Impervious Runoff Depth>1.32" Slope=0.0075 '/' Tc=18.3 min CN=92 Runoff=0.61 cfs 0.044 af
Subcatchment 220S: DP 5	Runoff Area=19,379 sf 7.48% Impervious Runoff Depth>0.66" Flow Length=287' Tc=20.4 min CN=81 Runoff=0.31 cfs 0.025 af
Subcatchment 221S: DP 3	Runoff Area=4,878 sf 88.42% Impervious Runoff Depth>1.67" Flow Length=65' Tc=1.1 min CN=96 Runoff=0.36 cfs 0.016 af
Subcatchment 222S: DP 6 Flow Length=35	Runoff Area=1,063 sf 79.87% Impervious Runoff Depth>1.49" 5' Slope=0.0200 '/' Tc=1.5 min CN=94 Runoff=0.07 cfs 0.003 af
Subcatchment 223S: DP 7	Runoff Area=14,659 sf 37.87% Impervious Runoff Depth>0.98" Flow Length=128' Tc=9.0 min CN=87 Runoff=0.53 cfs 0.028 af
Pond 217P: Dry Pond #1	Peak Elev=514.93' Storage=1,292 cf Inflow=2.67 cfs 0.166 af Outflow=1.57 cfs 0.164 af
Link 211L: Existing Offsite Towards Pear	I Street Inflow=3.66 cfs 0.166 af Primary=3.66 cfs 0.166 af
Link 212L: Existing Offsite to West (Then	to Pearl Street) Inflow=1.92 cfs 0.160 af Primary=1.92 cfs 0.160 af
Link 213L: Existing Offsite to North	Inflow=0.45 cfs 0.019 af Primary=0.45 cfs 0.019 af
Link 214L: Existing Total Offsite	Inflow=5.00 cfs 0.345 af Primary=5.00 cfs 0.345 af
Link 219L: Proposed Offsite Towards Pea	Inflow=1.59 cfs 0.071 af Primary=1.59 cfs 0.071 af

Hales Bus Garage Building Addition Typ	pe II 24-hr 1 Year Rainfall=2.10"
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Link 221L: Proposed Offsite To West (Then to Pearl Street)	Inflow=1.82 cfs 0.188 af
	Primary=1.82 cfs 0.188 af
Link 223L: Proposed Total Offsite	Inflow=3.07 cfs 0.262 af
	Primary=3.07 cfs 0.262 af
Link 224L: Proposed Offsite to North	Inflow=0.07 cfs 0.003 af
	Primary=0.07 cfs 0.003 af

Total Runoff Area = 4.600 ac Runoff Volume = 0.610 af Average Runoff Depth = 1.59" 18.77% Pervious = 0.863 ac 81.23% Impervious = 3.737 ac

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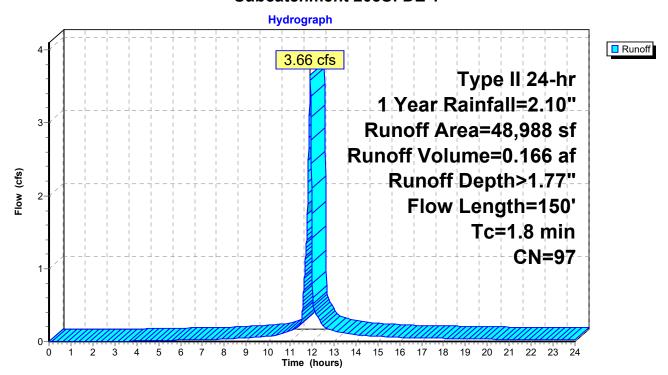
Summary for Subcatchment 208S: DE 1

Runoff = 3.66 cfs @ 11.92 hrs, Volume= 0.166 af, Depth> 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

_	А	rea (sf)	CN D	escription		
		1,544			•	ood, HSG D
_		47,444	98 F	<u>'aved park</u>	ing, HSG D	
		48,988	97 V	Veighted A	verage	
		1,544	3	.15% Perv	ious Area	
		47,444	9	6.85% Imp	ervious Ar	ea
	Tc	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	1.3	90	0.0200	1.19		Sheet Flow, sheet over roof
						Smooth surfaces n= 0.011 P2= 2.50"
	0.2	10	0.0230	0.81		Sheet Flow, Remainder of sheet flow
						Smooth surfaces n= 0.011 P2= 2.50"
	0.3	50	0.0230	3.08		Shallow Concentrated Flow, SC over asphalt
						Paved Kv= 20.3 fps
_	1.8	150	Total			<u> </u>

Subcatchment 208S: DE 1



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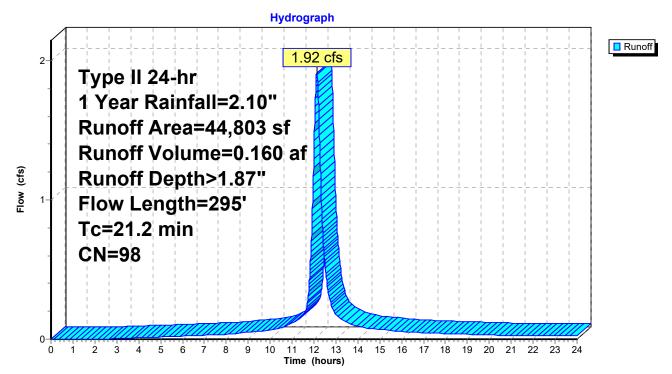
Summary for Subcatchment 209S: DE 2

Runoff = 1.92 cfs @ 12.13 hrs, Volume= 0.160 af, Depth> 1.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

_	Α	rea (sf)	CN I	Description						
		11,400	98 I	Paved parking, HSG D						
_		33,403	1 0,							
44,803 98 Weighted Average										
		44,803	•	100.00% In	npervious A	ırea				
·										
	Тс	Length	Slope	,	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	20.1	100	0.0045	0.08		Sheet Flow, Sheet over Lawn				
						Grass: Short n= 0.150 P2= 2.50"				
	1.1	195	0.0370	2.89		Shallow Concentrated Flow, SC Over Lawn				
						Grassed Waterway Kv= 15.0 fps				
	21.2	295	Total							

Subcatchment 209S: DE 2



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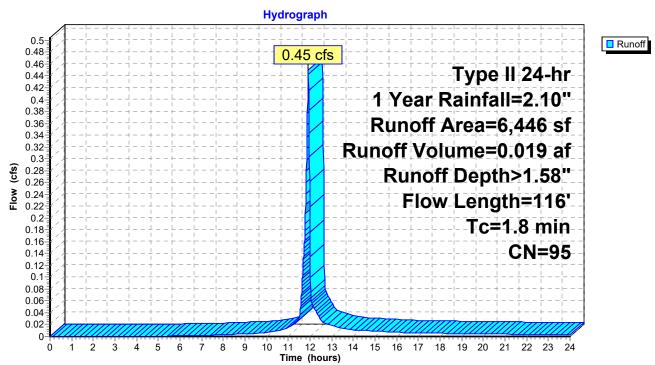
Summary for Subcatchment 210S: DE 3

Runoff = 0.45 cfs @ 11.92 hrs, Volume= 0.019 af, Depth> 1.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

	۸	rea (sf)	CN [Description						
-	^									
		5,237	98 F	Paved park	ing, HSG D					
		1,209	80 >	>75% Ġras	s cover, Go	ood, HSG D				
•		6,446	95 \	Neighted A	verage					
		1,209			rvious Area					
		5,237			pervious Ar					
		3,237	,) 1.24 /0 IIII	Dei vious Air	c a				
To Longth Clane Valenity Congrity Description					Description					
	Tc	Length	Slope		Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	1.7	100	0.0120	0.99		Sheet Flow, Sheet over Pavement / gravel pad				
						Smooth surfaces n= 0.011 P2= 2.50"				
	0.1	11	0.0200	2.28		Shallow Concentrated Flow, SC over remainder of grave				
	0		5.5200	2.20		Unpaved Kv= 16.1 fps				
	0.0	5	0.0300	2.60		Shallow Concentrated Flow, SC over lawn				
	0.0	3	0.0000	2.00						
_						Grassed Waterway Kv= 15.0 fps				
	18	116	Total							

Subcatchment 210S: DE 3



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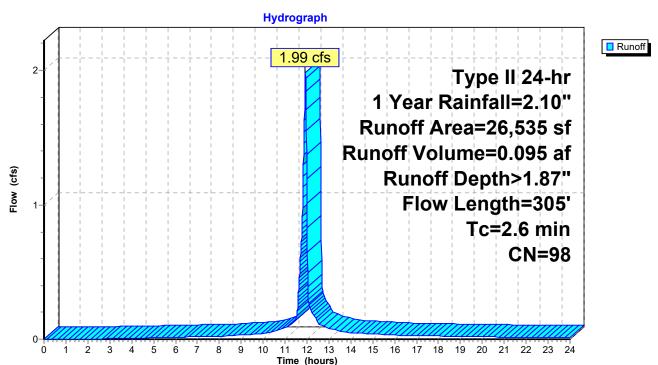
Summary for Subcatchment 216S: DP 1

Runoff = 1.99 cfs @ 11.93 hrs, Volume= 0.095 af, Depth> 1.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

	Α	rea (sf)	CN E	Description				
	26,535 98 Unconnected roofs, HSG D							
		26,535 26,535			npervious Anconnected			
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
	1.8	45	0.0020	0.41		Sheet Flow, Sheet over Roof Smooth surfaces n= 0.011 P2= 2.50"		
_	0.8	260	0.0100	5.26	6.46	Pipe Channel, Flow through roof drain piping 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013 Corrugated PE, smooth interior		
	2.6	305	Total					

Subcatchment 216S: DP 1



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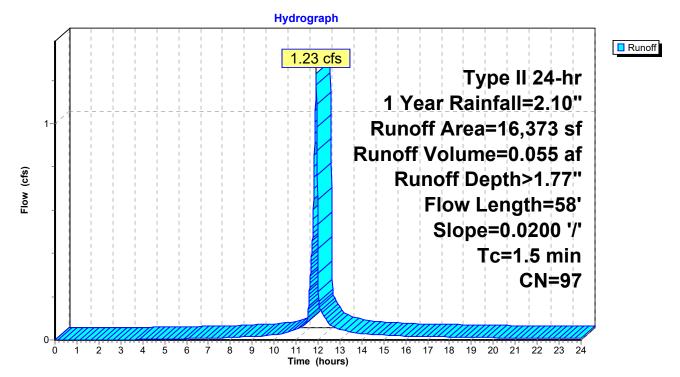
Summary for Subcatchment 218S: DP 2

Runoff = 1.23 cfs @ 11.92 hrs, Volume= 0.055 af, Depth> 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

 Α	rea (sf)	CN E	Description						
	1,296	80 >	75% Gras	s cover, Go	ood, HSG D				
	15,077	98 F	aved park	ing, HSG D					
	16,373	97 V	Veighted A	verage					
	1,296	7	.92% Perv	ious Area					
	15,077	9	2.08% Imp	pervious Are	ea				
_									
Tc	Length	Slope	Velocity	Capacity	Description				
 (min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
8.0	55	0.0200	1.08		Sheet Flow, Sheet over Pavement				
					Smooth surfaces n= 0.011 P2= 2.50"				
0.7	3	0.0200	0.07		Sheet Flow, Sheet over lawn				
					Grass: Short n= 0.150 P2= 2.50"				
1.5	58	Total							

Subcatchment 218S: DP 2



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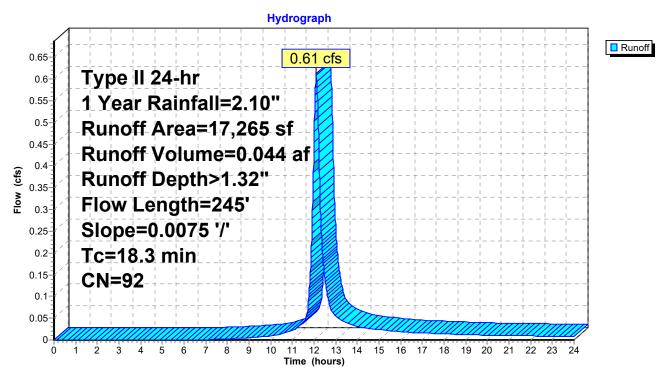
Summary for Subcatchment 219S: DP 4

Runoff = 0.61 cfs @ 12.10 hrs, Volume= 0.044 af, Depth> 1.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

_	Α	rea (sf)	CN E	Description						
		11,516		Paved parking, HSG D						
_		5,749	80 >	>75% Grass cover, Good, HSG D						
		17,265	92 V	2 Weighted Average						
	5,749 33.30% Pervious Area									
		11,516	6	6.70% Imp	ervious Ar	ea				
	Тс	Length	Slope	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	16.4	100	0.0075	0.10		Sheet Flow, Sheet in Dry Swale				
						Grass: Short n= 0.150 P2= 2.50"				
	1.9	145	0.0075	1.30		Shallow Concentrated Flow, SC in Dry Swale				
_						Grassed Waterway Kv= 15.0 fps				
	18.3	245	Total							

Subcatchment 219S: DP 4



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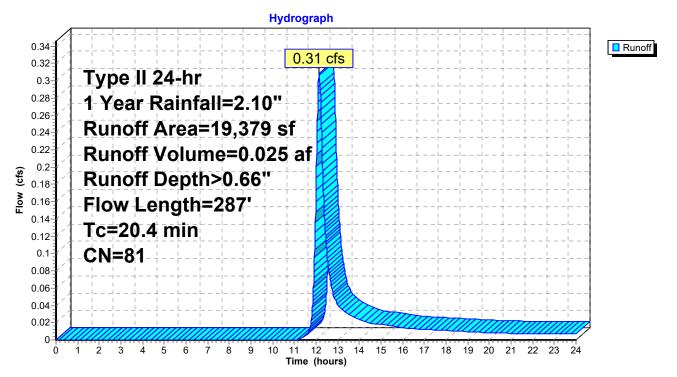
Summary for Subcatchment 220S: DP 5

Runoff 0.31 cfs @ 12.15 hrs, Volume= 0.025 af, Depth> 0.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

_	Α	rea (sf)	CN E	Description						
		1,450	98 F	8 Paved parking, HSG D						
_		17,929	80 >	75% Gras	s cover, Go	ood, HSG D				
		19,379	81 Weighted Average							
	17,929 92.52% Pervious Area									
		1,450	7	.48% Impe	ervious Area	а				
	_									
	Тс	Length	Slope	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	19.3	100	0.0050	0.09		Sheet Flow, Sheet over Lawn				
						Grass: Short n= 0.150 P2= 2.50"				
	1.1	187	0.0375	2.90		Shallow Concentrated Flow, SC Over Lawn				
_						Grassed Waterway Kv= 15.0 fps				
	20.4	287	Total							

Subcatchment 220S: DP 5



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Summary for Subcatchment 221S: DP 3

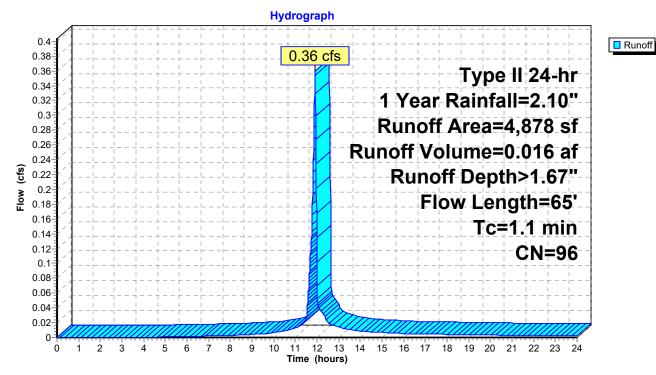
[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.36 cfs @ 11.91 hrs, Volume= 0.016 af, Depth> 1.67"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

A	rea (sf)	CN [Description				
	565	80 >	>75% Grass cover, Good, HSG D				
	4,313	98 F	Paved parking, HSG D				
	4,878	96 V	Weighted Average				
	565	1	11.58% Pervious Area				
	4,313	3	88.42% Impervious Area				
Тс	Length	Slope	Velocity	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	2 coonpact		
0.7	60	0.0400	1.45		Sheet Flow, Sheet over Pavement		
					Smooth surfaces n= 0.011 P2= 2.50"		
0.4	5	0.1600	0.19		Sheet Flow, Sheet over lawn		
					Grass: Short n= 0.150 P2= 2.50"		
1.1	65	Total					

Subcatchment 221S: DP 3



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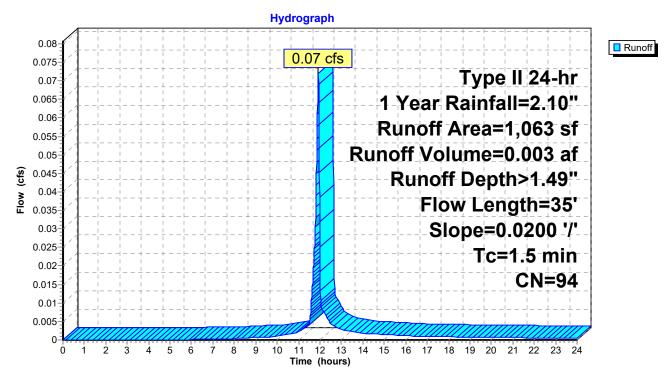
Summary for Subcatchment 222S: DP 6

0.07 cfs @ 11.92 hrs, Volume= 0.003 af, Depth> 1.49" Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

<i>P</i>	Area (sf)	CN E	escription					
	849	98 F	Paved parking, HSG D					
	214	80 >	>75% Grass cover, Good, HSG D					
	1,063	94 V	Weighted Average					
	214	2	20.13% Pervious Area					
	849	79.87% Impervious Area						
Tc		Slope	Velocity	Capacity	Description			
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
0.5	30	0.0200	0.96		Sheet Flow, sheet over gravel			
1.0	5	0.0200	0.08		Smooth surfaces n= 0.011 P2= 2.50" Sheet Flow, sheet over lawn Grass: Short n= 0.150 P2= 2.50"			
1.5	35	Total						

Subcatchment 222S: DP 6



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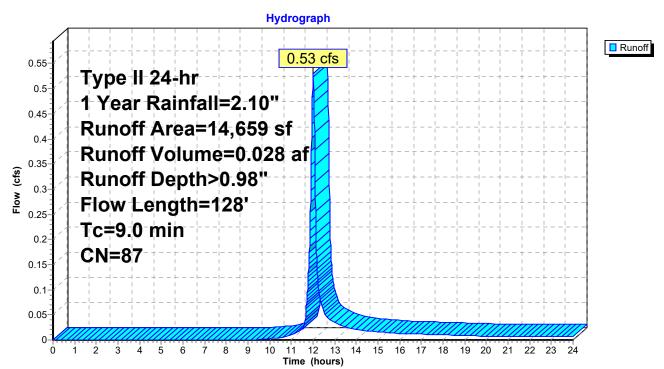
Summary for Subcatchment 223S: DP 7

Runoff 0.53 cfs @ 12.01 hrs, Volume= 0.028 af, Depth> 0.98"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 1 Year Rainfall=2.10"

	\rea (sf)	CN E	escription				
	5,551	98 F	Paved parking, HSG D				
	9,108	80 >	>75% Grass cover, Good, HSG D				
	14,659	87 V	37 Weighted Average				
	9,108	6	62.13% Pervious Area				
	5,551	37.87% Impervious Area					
_							
Tc		Slope	Velocity	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
8.9	100	0.0350	0.19		Sheet Flow, Sheet Over Lawn to Stormwater Pond		
					Grass: Short n= 0.150 P2= 2.50"		
0.1	28	0.2500	7.50		Shallow Concentrated Flow, SC over lawn		
					Grassed Waterway Kv= 15.0 fps		
9.0	128	Total					

Subcatchment 223S: DP 7



Hales Bus Garage Building Addition

Type II 24-hr 1 Year Rainfall=2.10"

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Summary for Pond 217P: Dry Pond #1

Inflow Area = 1.342 ac, 74.59% Impervious, Inflow Depth > 1.49" for 1 Year event

Inflow = 2.67 cfs @ 11.94 hrs, Volume= 0.166 af

Outflow = 1.57 cfs @ 12.03 hrs, Volume= 0.164 af, Atten= 41%, Lag= 5.5 min

Primary = 1.57 cfs @ 12.03 hrs, Volume= 0.164 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 514.93' @ 12.03 hrs Surf.Area= 1,861 sf Storage= 1,292 cf

Plug-Flow detention time= 28.6 min calculated for 0.164 af (98% of inflow)

Avail.Storage Storage Description

Center-of-Mass det. time= 18.8 min (806.5 - 787.7)

Invert

Volume

#1	514.10	7,00	32 cf Custom	Stage Data (Pr	rismatic)Listed below (Recalc)		
Elevation (fee		Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)			
514. ² 517. ²	-	1,271 3,417	0 7,032	7,032			
Device	Routing	Invert	Outlet Devices	S			
#1	#1 Primary 514.10'		12.0" Round 12" HDPE L= 40.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 514.10' / 513.70' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf				
#2 #3 #4	#3 Device 1 514.90'		12.0" W x 5.0" H Vert. 1 Year C= 0.600 3.0" Vert. 10 yr C= 0.600 3.0" Vert. 100 yr C= 0.600				

Primary OutFlow Max=1.57 cfs @ 12.03 hrs HW=514.93' (Free Discharge)

1=12" HDPE (Passes 1.57 cfs of 1.99 cfs potential flow)

2=1 Year (Orifice Controls 1.57 cfs @ 3.76 fps)

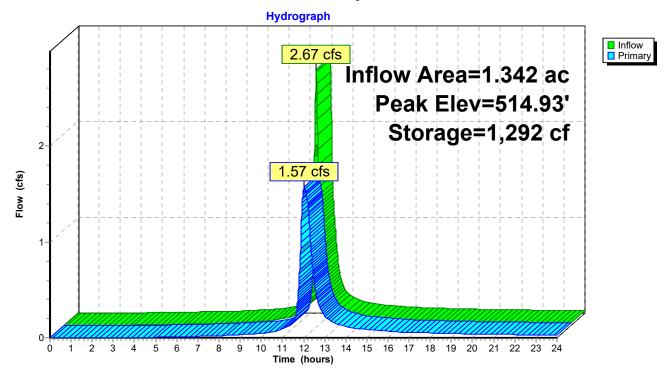
-3=10 yr (Orifice Controls 0.00 cfs @ 0.54 fps)

-4=100 yr (Controls 0.00 cfs)

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Pond 217P: Dry Pond #1



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Summary for Link 211L: Existing Offsite Towards Pearl Street

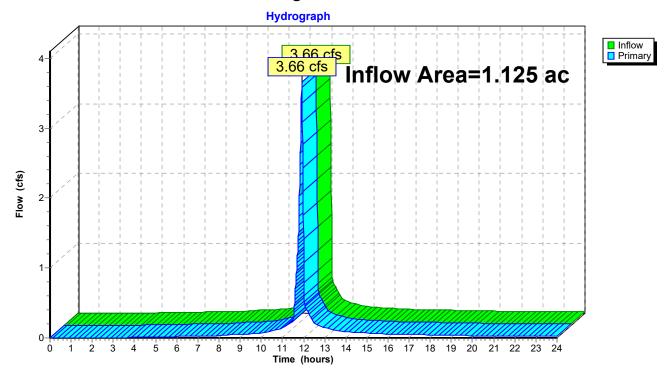
Inflow Area = 1.125 ac, 96.85% Impervious, Inflow Depth > 1.77" for 1 Year event

Inflow = 3.66 cfs @ 11.92 hrs, Volume= 0.166 af

Primary = 3.66 cfs @ 11.92 hrs, Volume= 0.166 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 211L: Existing Offsite Towards Pearl Street



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Summary for Link 212L: Existing Offsite to West (Then to Pearl Street)

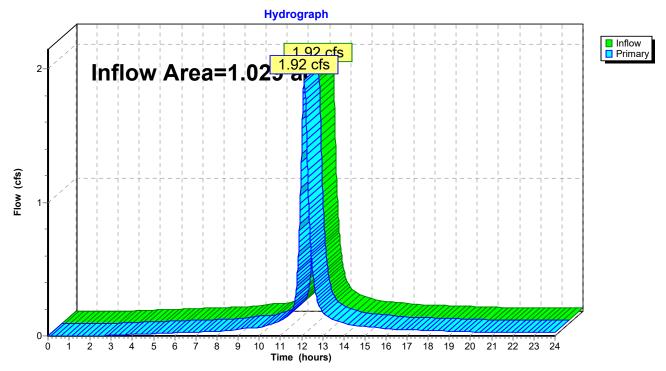
Inflow Area = 1.029 ac,100.00% Impervious, Inflow Depth > 1.87" for 1 Year event

Inflow = 1.92 cfs @ 12.13 hrs, Volume= 0.160 af

Primary = 1.92 cfs @ 12.13 hrs, Volume= 0.160 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 212L: Existing Offsite to West (Then to Pearl Street)



Hales Bus Garage Building Addition

Type II 24-hr 1 Year Rainfall=2.10"

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Summary for Link 213L: Existing Offsite to North

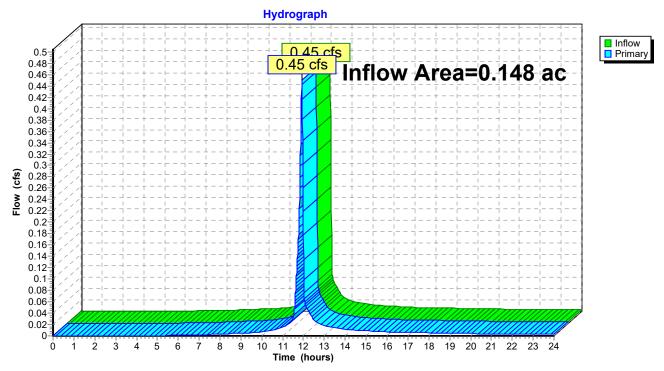
Inflow Area = 0.148 ac, 81.24% Impervious, Inflow Depth > 1.58" for 1 Year event

Inflow = 0.45 cfs @ 11.92 hrs, Volume= 0.019 af

Primary = 0.45 cfs @ 11.92 hrs, Volume= 0.019 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 213L: Existing Offsite to North



Type II 24-hr 1 Year Rainfall=2.10"

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Summary for Link 214L: Existing Total Offsite

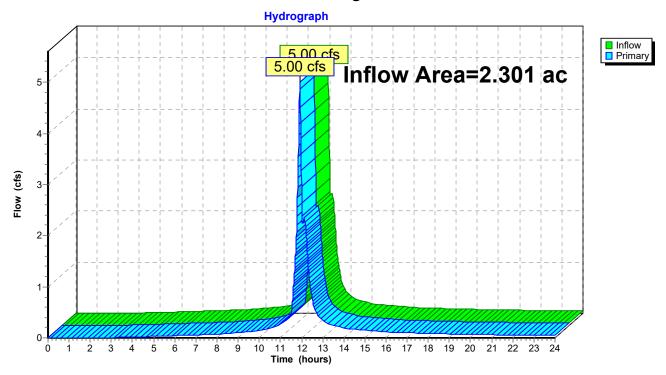
Inflow Area = 2.301 ac, 97.25% Impervious, Inflow Depth > 1.80" for 1 Year event

Inflow = 5.00 cfs @ 11.92 hrs, Volume= 0.345 af

Primary = 5.00 cfs @ 11.92 hrs, Volume= 0.345 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 214L: Existing Total Offsite



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Summary for Link 219L: Proposed Offsite Towards Pearl Street

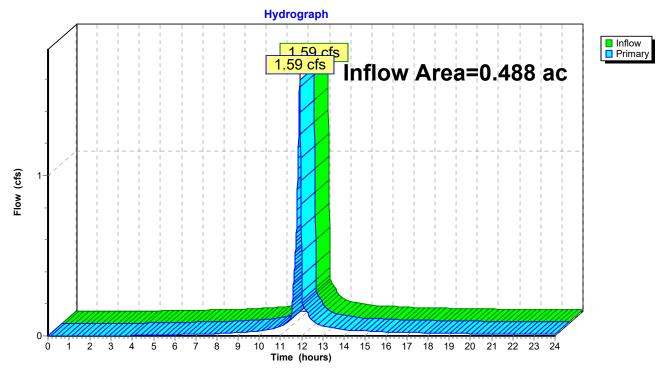
Inflow Area = 0.488 ac, 91.24% Impervious, Inflow Depth > 1.75" for 1 Year event

Inflow = 1.59 cfs @ 11.92 hrs, Volume= 0.071 af

Primary = 1.59 cfs @ 11.92 hrs, Volume= 0.071 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 219L: Proposed Offsite Towards Pearl Street



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Summary for Link 221L: Proposed Offsite To West (Then to Pearl Street)

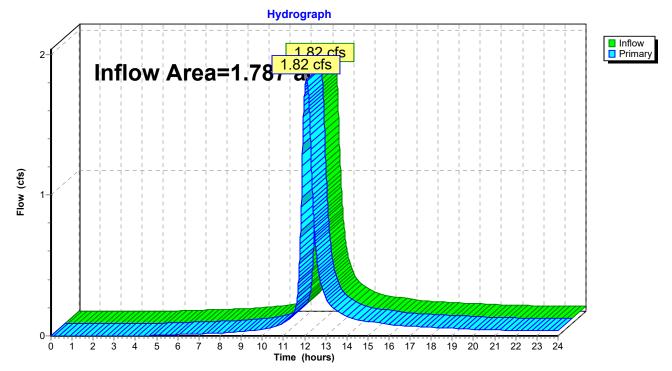
Inflow Area = 1.787 ac, 57.88% Impervious, Inflow Depth > 1.26" for 1 Year event

Inflow = 1.82 cfs @ 12.09 hrs, Volume= 0.188 af

Primary = 1.82 cfs @ 12.09 hrs, Volume= 0.188 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 221L: Proposed Offsite To West (Then to Pearl Street)



Type II 24-hr 1 Year Rainfall=2.10"

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Summary for Link 223L: Proposed Total Offsite

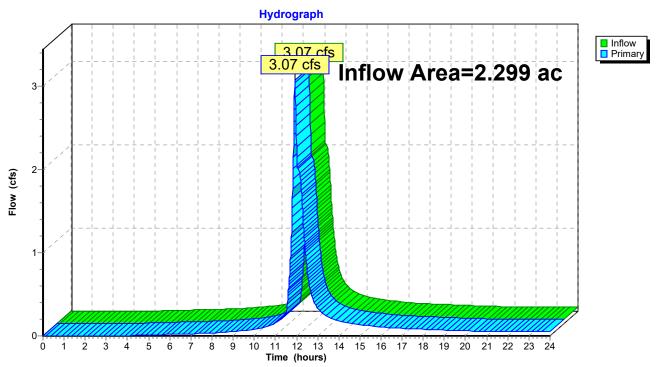
Inflow Area = 2.299 ac, 65.19% Impervious, Inflow Depth > 1.37" for 1 Year event

Inflow = 3.07 cfs @ 11.92 hrs, Volume= 0.262 af

Primary = 3.07 cfs @ 11.92 hrs, Volume= 0.262 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 223L: Proposed Total Offsite



Type II 24-hr 1 Year Rainfall=2.10"

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Summary for Link 224L: Proposed Offsite to North

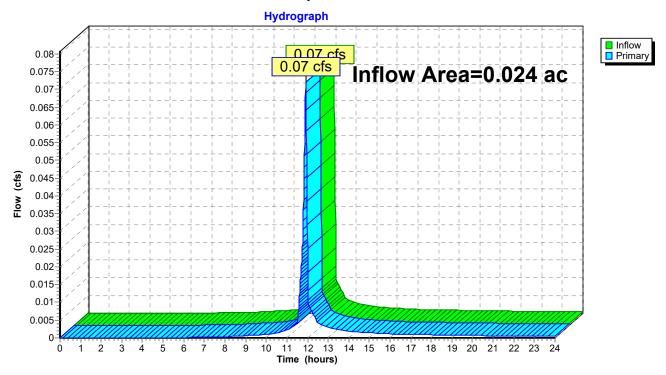
Inflow Area = 0.024 ac, 79.87% Impervious, Inflow Depth > 1.49" for 1 Year event

Inflow = 0.07 cfs @ 11.92 hrs, Volume= 0.003 af

Primary = 0.07 cfs @ 11.92 hrs, Volume= 0.003 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 224L: Proposed Offsite to North



Type II 24-hr 10 Year Rainfall=3.50"

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Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 208S: DE 1	Runoff Area=48,988 sf 96.85% Impervious Runoff Depth>3.15"								
	Flow Length=150' Tc=1.8 min CN=97 Runoff=6.28 cfs 0.296 af								
Subcatchment 209S: DE 2	Runoff Area=44,803 sf 100.00% Impervious Runoff Depth>3.25" Flow Length=295' Tc=21.2 min CN=98 Runoff=3.25 cfs 0.279 af								
Subcatchment 210S: DE 3	Runoff Area=6,446 sf 81.24% Impervious Runoff Depth>2.94" Flow Length=116' Tc=1.8 min CN=95 Runoff=0.80 cfs 0.036 af								
Subcatchment216S: DP 1	Runoff Area=26,535 sf 100.00% Impervious Runoff Depth>3.27" Flow Length=305' Tc=2.6 min CN=98 Runoff=3.36 cfs 0.166 af								
Subcatchment 218S: DP 2	Runoff Area=16,373 sf 92.08% Impervious Runoff Depth>3.15" Flow Length=58' Slope=0.0200 '/' Tc=1.5 min CN=97 Runoff=2.12 cfs 0.099 af								
Subcatchment 219S: DP 4	Runoff Area=17,265 sf 66.70% Impervious Runoff Depth>2.63" low Length=245' Slope=0.0075 '/' Tc=18.3 min CN=92 Runoff=1.19 cfs 0.087 af								
Subcatchment 220S: DP 5	Runoff Area=19,379 sf 7.48% Impervious Runoff Depth>1.70" Flow Length=287' Tc=20.4 min CN=81 Runoff=0.83 cfs 0.063 af								
Subcatchment 221S: DP 3	Runoff Area=4,878 sf 88.42% Impervious Runoff Depth>3.04" Flow Length=65' Tc=1.1 min CN=96 Runoff=0.63 cfs 0.028 af								
Subcatchment 222S: DP 6	Runoff Area=1,063 sf 79.87% Impervious Runoff Depth>2.83" Flow Length=35' Slope=0.0200 '/' Tc=1.5 min CN=94 Runoff=0.13 cfs 0.006 af								
Subcatchment 223S: DP 7	Runoff Area=14,659 sf 37.87% Impervious Runoff Depth>2.18" Flow Length=128' Tc=9.0 min CN=87 Runoff=1.16 cfs 0.061 af								
Pond 217P: Dry Pond #1	Peak Elev=515.55' Storage=2,585 cf Inflow=4.87 cfs 0.314 af Outflow=2.40 cfs 0.310 af								
Link 211L: Existing Offsite	Towards Pearl Street Inflow=6.28 cfs 0.296 af Primary=6.28 cfs 0.296 af								
Link 212L: Existing Offsite to West (Then to Pearl Street) Inflow=3.25 cfs 0. Primary=3.25 cfs 0.									
Link 213L: Existing Offsite	to North Inflow=0.80 cfs 0.036 af Primary=0.80 cfs 0.036 af								
Link 214L: Existing Total O	Inflow=8.61 cfs 0.611 af Primary=8.61 cfs 0.611 af								
Link 219L: Proposed Offsit	e Towards Pearl Street Inflow=2.74 cfs 0.127 af Primary=2.74 cfs 0.127 af								

	l 24-hr 10 Year Rainfall=3.50"
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Link 221L: Proposed Offsite To West (Then to Pearl Street)	Inflow=3.22 cfs 0.373 af
	Primary=3.22 cfs 0.373 af
Link 223L: Proposed Total Offsite	Inflow=5.10 cfs 0.506 af
	Primary=5.10 cfs 0.506 af
Link 004L - Duning and Official to Month	Inflamen 12 etc. 0.000 et
Link 224L: Proposed Offsite to North	Inflow=0.13 cfs 0.006 af
	Primary=0.13 cfs 0.006 af

Total Runoff Area = 4.600 ac Runoff Volume = 1.120 af Average Runoff Depth = 2.92" 18.77% Pervious = 0.863 ac 81.23% Impervious = 3.737 ac

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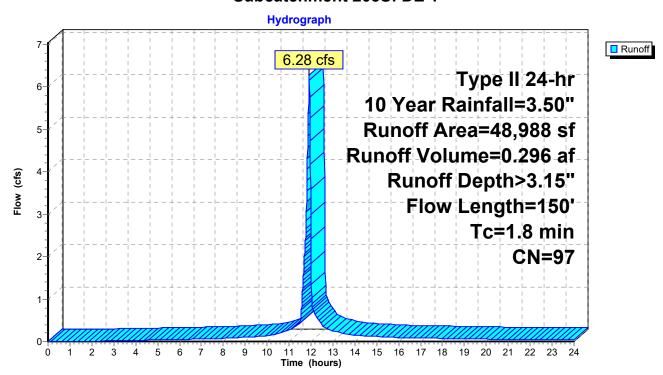
Summary for Subcatchment 208S: DE 1

Runoff = 6.28 cfs @ 11.92 hrs, Volume= 0.296 af, Depth> 3.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

	Α	rea (sf)	CN D	Description								
		1,544 47,444		, ,								
48,988 97 Weighted Average 1,544 3.15% Pervious Area 47,444 96.85% Impervious Area												
(r	Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description						
	1.3	90	0.0200	1.19	, ,	Sheet Flow, sheet over roof Smooth surfaces n= 0.011 P2= 2.50"						
	0.2	10	0.0230	0.81		Sheet Flow, Remainder of sheet flow Smooth surfaces n= 0.011 P2= 2.50"						
	0.3	50	0.0230	3.08		Shallow Concentrated Flow, SC over asphalt Paved Kv= 20.3 fps						
	1.8	150	Total			·						

Subcatchment 208S: DE 1



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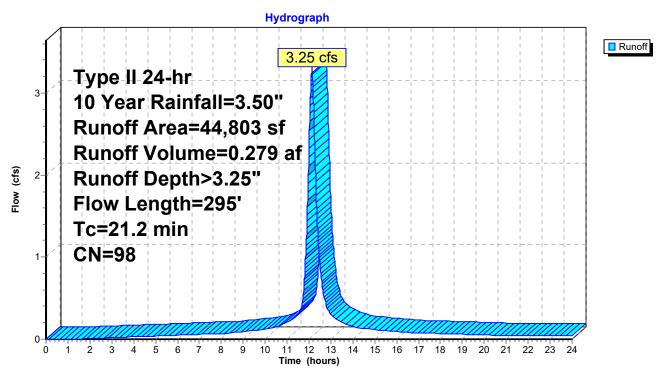
Summary for Subcatchment 209S: DE 2

Runoff = 3.25 cfs @ 12.13 hrs, Volume= 0.279 af, Depth> 3.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

_	Α	rea (sf)	CN I	Description							
		11,400	98 I	Paved parking, HSG D							
_		33,403	98 I	Paved park	ing, HSG D						
_		44,803	98 \	Neighted A	verage						
		44,803	•	100.00% In	npervious A	ırea					
	Тс	Length	Slope	,	Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	20.1	100	0.0045	0.08		Sheet Flow, Sheet over Lawn					
						Grass: Short n= 0.150 P2= 2.50"					
	1.1	195	195 0.0370 2.89		Shallow Concentrated Flow, SC Over Lawn						
						Grassed Waterway Kv= 15.0 fps					
	21.2	295	Total								

Subcatchment 209S: DE 2



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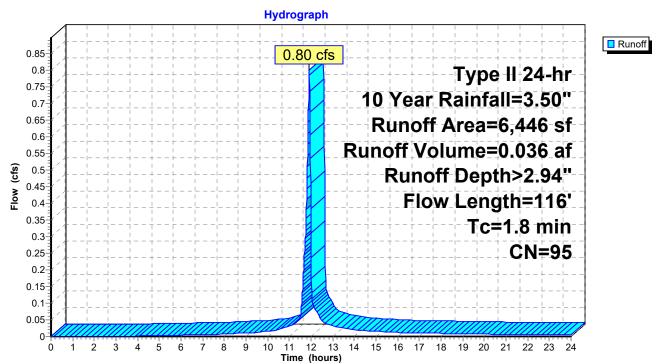
Summary for Subcatchment 210S: DE 3

Runoff = 0.80 cfs @ 11.92 hrs, Volume= 0.036 af, Depth> 2.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

	Α	rea (sf)	CN I	Description							
		5,237		Paved parking, HSG D >75% Grass cover, Good, HSG D							
-		1,209				000, HSG D					
		6,446		Neighted A							
		1,209			rvious Area						
		5,237	8	31.24% lmp	pervious Ar	ea					
	_										
	Tc	Length	Slope		Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	1.7	100	0.0120	0.99		Sheet Flow, Sheet over Pavement / gravel pad					
						Smooth surfaces n= 0.011 P2= 2.50"					
	0.1	11	0.0200	2.28		Shallow Concentrated Flow, SC over remainder of grave					
						Unpaved Kv= 16.1 fps					
	0.0	5	0.0300	2.60		Shallow Concentrated Flow, SC over lawn					
						Grassed Waterway Kv= 15.0 fps					
-	1.8	116	Total			<u> </u>					

Subcatchment 210S: DE 3



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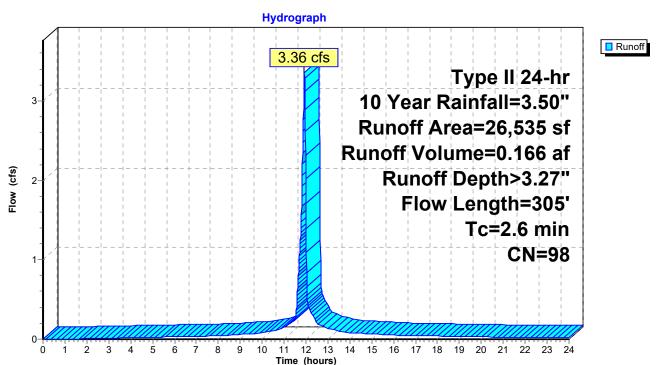
Summary for Subcatchment 216S: DP 1

Runoff = 3.36 cfs @ 11.93 hrs, Volume= 0.166 af, Depth> 3.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

_	Α	rea (sf)	CN E	Description								
		26,535	98 L	98 Unconnected roofs, HSG D								
		26,535 26,535			npervious A							
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description						
-	1.8	45	0.0020	0.41		Sheet Flow, Sheet over Roof Smooth surfaces n= 0.011 P2= 2.50"						
	0.8	260	0.0100	5.26	6.46							
	26	305	Total									

Subcatchment 216S: DP 1



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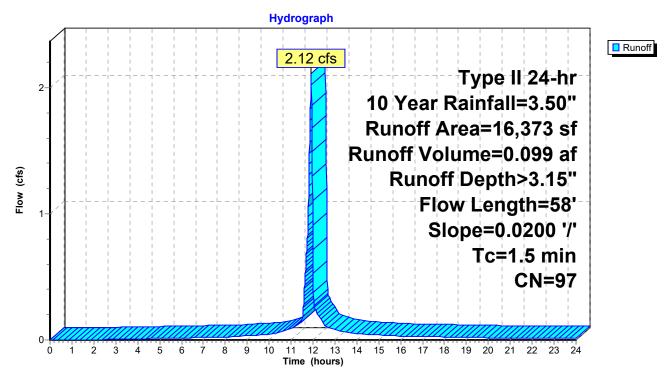
Summary for Subcatchment 218S: DP 2

Runoff = 2.12 cfs @ 11.92 hrs, Volume= 0.099 af, Depth> 3.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

 Α	rea (sf)	CN E	escription									
	1,296	80 >	75% Gras	75% Grass cover, Good, HSG D								
	15,077	98 F	aved park	ing, HSG D								
	16,373	97 V	Veighted A	verage								
	1,296	7	.92% Perv	ious Area								
	15,077	9	2.08% Imp	pervious Are	ea							
_												
Tc	Length	Slope	Velocity	Capacity	Description							
 (min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
8.0	55	0.0200	1.08		Sheet Flow, Sheet over Pavement							
					Smooth surfaces n= 0.011 P2= 2.50"							
0.7	3	0.0200	0.07		Sheet Flow, Sheet over lawn							
					Grass: Short n= 0.150 P2= 2.50"							
1.5	58	Total										

Subcatchment 218S: DP 2



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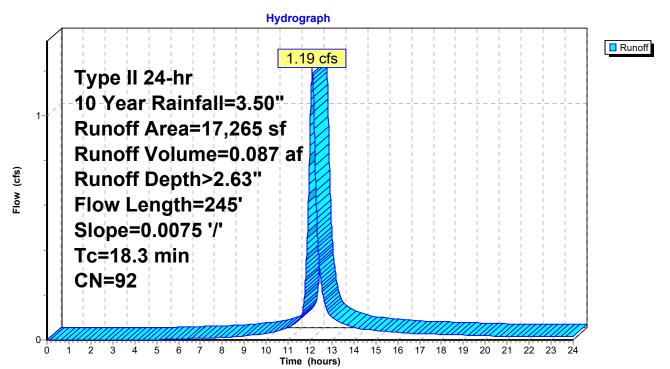
Summary for Subcatchment 219S: DP 4

Runoff = 1.19 cfs @ 12.10 hrs, Volume= 0.087 af, Depth> 2.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

_	Α	rea (sf)	CN E	Description							
		11,516	98 F	Paved parking, HSG D							
_		5,749	80 >	75% Grass	s cover, Go	ood, HSG D					
		17,265	92 V	Veighted A	verage						
		5,749	3	3.30% Per	vious Area						
		11,516	6	6.70% Imp	ervious Ar	ea					
	Тс	Length	Slope	Velocity	Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	16.4	100	0.0075	0.10		Sheet Flow, Sheet in Dry Swale					
						Grass: Short n= 0.150 P2= 2.50"					
	1.9	145	0.0075	1.30		Shallow Concentrated Flow, SC in Dry Swale					
_						Grassed Waterway Kv= 15.0 fps					
	18.3	245	Total								

Subcatchment 219S: DP 4



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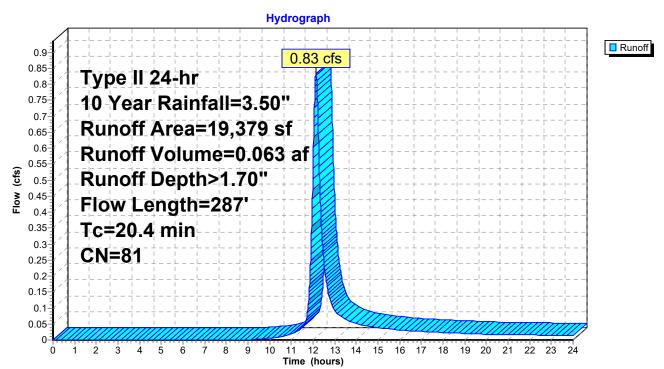
Summary for Subcatchment 220S: DP 5

Runoff = 0.83 cfs @ 12.13 hrs, Volume= 0.063 af, Depth> 1.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

_	Α	rea (sf)	CN E	N Description							
		1,450		98 Paved parking, HSG D							
_		17,929	80 >	·75% Gras	s cover, Go	ood, HSG D					
		19,379	81 V	Veighted A	verage						
		17,929	g	2.52% Per	vious Area						
		1,450	7	.48% Impe	ervious Are	a					
	Tc	Length	Slope	Velocity	Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	19.3	100	0.0050	0.09		Sheet Flow, Sheet over Lawn					
						Grass: Short n= 0.150 P2= 2.50"					
	1.1	187	0.0375	2.90		Shallow Concentrated Flow, SC Over Lawn					
_						Grassed Waterway Kv= 15.0 fps					
	20.4	287	Total								

Subcatchment 220S: DP 5



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Summary for Subcatchment 221S: DP 3

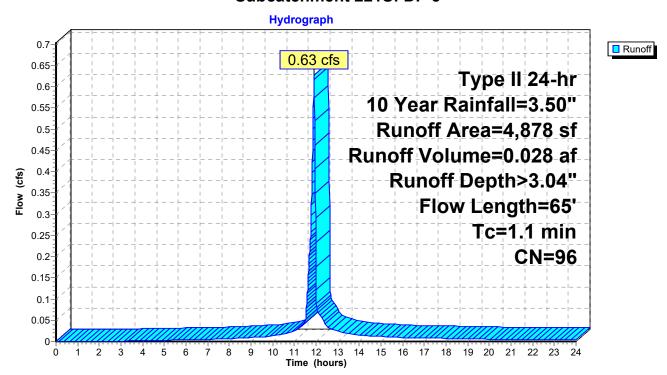
[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.63 cfs @ 11.91 hrs, Volume= 0.028 af, Depth> 3.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

A	rea (sf)	CN [Description	escription							
	565	80 >	75% Gras	75% Grass cover, Good, HSG D							
	4,313	98 F	Paved park	aved parking, HSG D							
	4,878	96 V	Veighted A	verage							
	565	1	1.58% Per	vious Area							
	4,313	3	38.42% Imp	pervious Are	ea						
Tc	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
0.7	60	0.0400	1.45		Sheet Flow, Sheet over Pavement						
					Smooth surfaces n= 0.011 P2= 2.50"						
0.4	5	0.1600	0.19		Sheet Flow, Sheet over lawn						
					Grass: Short n= 0.150 P2= 2.50"						
1.1	65	Total									

Subcatchment 221S: DP 3



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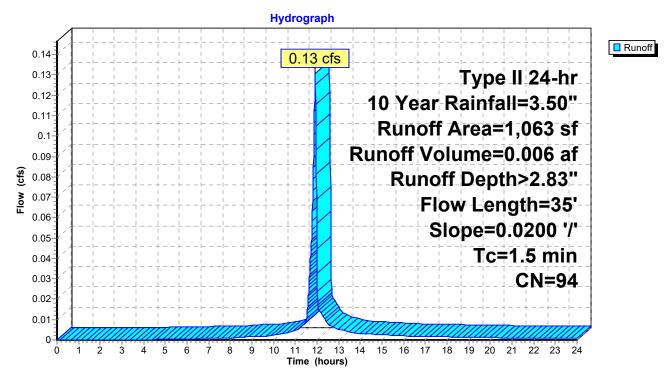
Summary for Subcatchment 222S: DP 6

Runoff = 0.13 cfs @ 11.92 hrs, Volume= 0.006 af, Depth> 2.83"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

A	rea (sf)	CN E	escription								
	849	98 F	aved parking, HSG D								
	214	80 >	75% Gras	s cover, Go	ood, HSG D						
	1,063	94 V	Veighted A	verage							
	214	2	0.13% Per	vious Area							
	849	7	9.87% Imp	pervious Are	ea						
Tc	Length	Slope	Velocity	Capacity	Description						
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)							
0.5	30	0.0200	0.96		Sheet Flow, sheet over gravel						
1.0	5	0.0200	0.08		Smooth surfaces n= 0.011 P2= 2.50" Sheet Flow, sheet over lawn Grass: Short n= 0.150 P2= 2.50"						
1.5	35	Total									

Subcatchment 222S: DP 6



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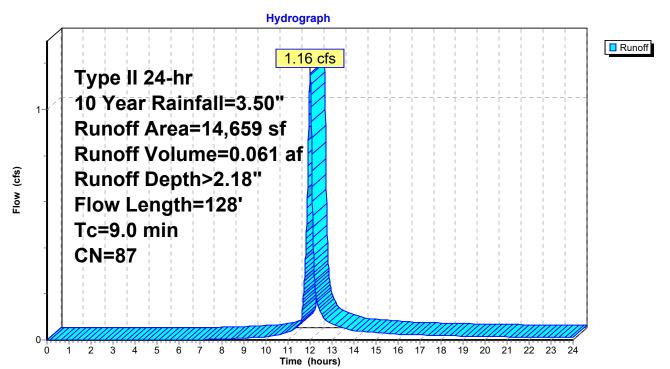
Summary for Subcatchment 223S: DP 7

Runoff = 1.16 cfs @ 12.01 hrs, Volume= 0.061 af, Depth> 2.18"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 10 Year Rainfall=3.50"

_	Α	rea (sf)	CN E	Description							
		5,551	98 F	Paved parking, HSG D							
_		9,108	80 >	75% Gras	s cover, Go	ood, HSG D					
		14,659	87 V	Veighted A	verage						
		9,108	6	2.13% Per	vious Area						
		5,551	3	7.87% Imp	pervious Ar	ea					
	Тс	Length	Slope	Velocity	Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	8.9	100	0.0350	0.19		Sheet Flow, Sheet Over Lawn to Stormwater Pond					
						Grass: Short n= 0.150 P2= 2.50"					
	0.1	28	0.2500	7.50		Shallow Concentrated Flow, SC over lawn					
_						Grassed Waterway Kv= 15.0 fps					
	9.0	128	Total								

Subcatchment 223S: DP 7



Type II 24-hr 10 Year Rainfall=3.50"

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Summary for Pond 217P: Dry Pond #1

Inflow Area = 1.342 ac, 74.59% Impervious, Inflow Depth > 2.80" for 10 Year event

Inflow 4.87 cfs @ 11.94 hrs, Volume= 0.314 af

2.40 cfs @ 12.08 hrs, Volume= Outflow = 0.310 af, Atten= 51%, Lag= 8.6 min

2.40 cfs @ 12.08 hrs, Volume= Primary 0.310 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 515.55' @ 12.08 hrs Surf.Area= 2,305 sf Storage= 2,585 cf

Plug-Flow detention time= 24.2 min calculated for 0.310 af (99% of inflow)

Center-of-Mass det. time= 17.2 min (792.0 - 774.8)

Volume	Inve	ert Avai	l.Storage	ge Storage Description			
#1	514.1	0'	7,032 cf	Custom S	Stage Data (P	rismatic)Listed below (Recalc)	
Elevation (feet	· -	Surf.Area (sq-ft)		:.Store c-feet)	Cum.Store (cubic-feet)		
514.10	0	1,271		0	0		
517.10	0	3,417		7,032	7,032		
Device Routing		Inv	vert Outl	et Devices			
#1 Primary 514.10'			12.0" Round 12" HDPE L= 40.0' CPP, square edge headwall, Ke= 0.500				

#1	Primary	514.10'	12.0" Round 12" HDPE
			L= 40.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 514.10' / 513.70' S= 0.0100 '/' Cc= 0.900
			n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#2	Device 1	514.10'	12.0" W x 5.0" H Vert. 1 Year C= 0.600
#3	Device 1	514.90'	3.0" Vert. 10 yr C= 0.600
#4	Device 1	515.60'	3.0" Vert. 100 yr C= 0.600
			-

Primary OutFlow Max=2.40 cfs @ 12.08 hrs HW=515.55' (Free Discharge)

-1=12" HDPE (Passes 2.40 cfs of 3.49 cfs potential flow)

2=1 Year (Orifice Controls 2.23 cfs @ 5.35 fps)

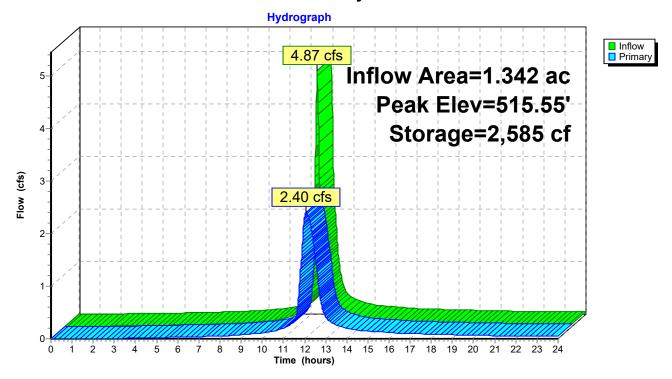
-3=10 yr (Orifice Controls 0.17 cfs @ 3.47 fps)

-4=100 yr (Controls 0.00 cfs)

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Pond 217P: Dry Pond #1



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Summary for Link 211L: Existing Offsite Towards Pearl Street

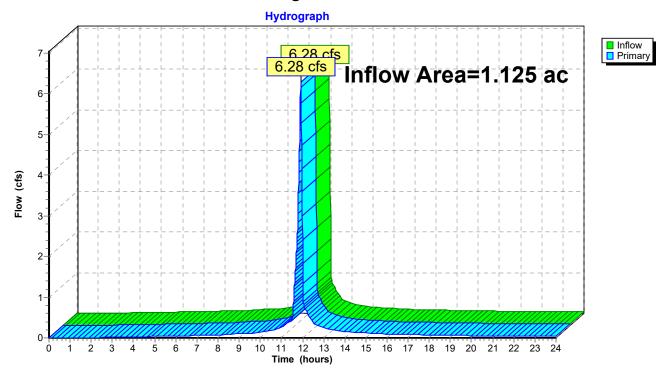
Inflow Area = 1.125 ac, 96.85% Impervious, Inflow Depth > 3.15" for 10 Year event

Inflow = 6.28 cfs @ 11.92 hrs, Volume= 0.296 af

Primary = 6.28 cfs @ 11.92 hrs, Volume= 0.296 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 211L: Existing Offsite Towards Pearl Street



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Summary for Link 212L: Existing Offsite to West (Then to Pearl Street)

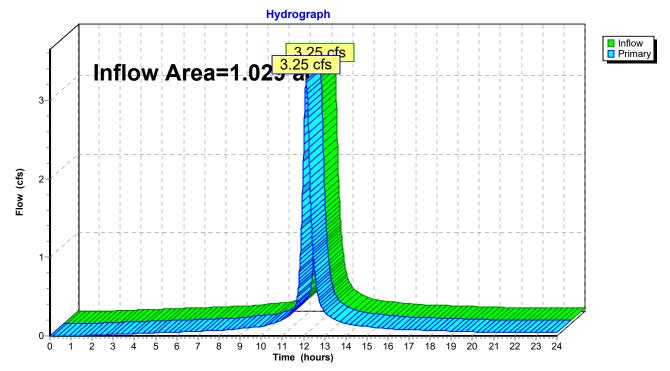
Inflow Area = 1.029 ac,100.00% Impervious, Inflow Depth > 3.25" for 10 Year event

Inflow = 3.25 cfs @ 12.13 hrs, Volume= 0.279 af

Primary = 3.25 cfs @ 12.13 hrs, Volume= 0.279 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 212L: Existing Offsite to West (Then to Pearl Street)



Type II 24-hr 10 Year Rainfall=3.50"

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Summary for Link 213L: Existing Offsite to North

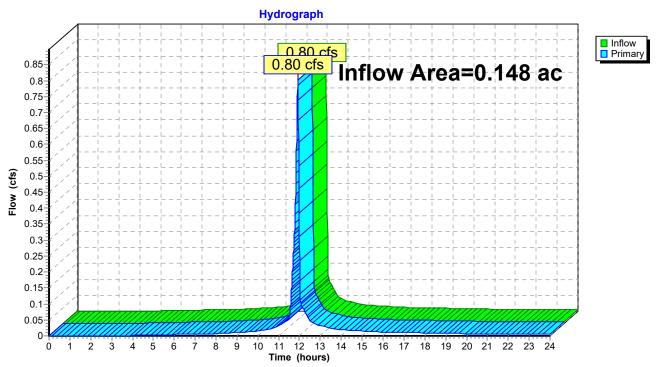
Inflow Area = 0.148 ac, 81.24% Impervious, Inflow Depth > 2.94" for 10 Year event

Inflow = 0.80 cfs @ 11.92 hrs, Volume= 0.036 af

Primary = 0.80 cfs @ 11.92 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 213L: Existing Offsite to North



Type II 24-hr 10 Year Rainfall=3.50"

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Summary for Link 214L: Existing Total Offsite

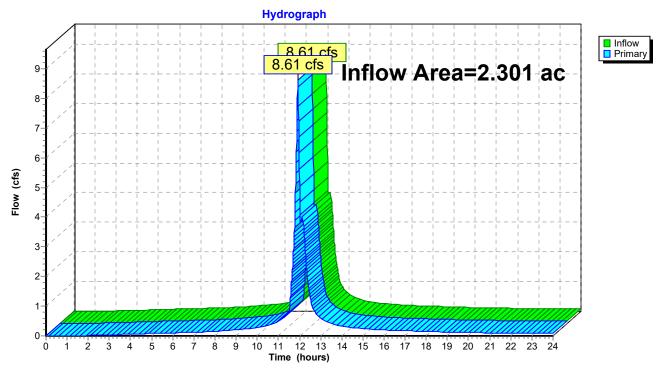
Inflow Area = 2.301 ac, 97.25% Impervious, Inflow Depth > 3.18" for 10 Year event

Inflow = 8.61 cfs @ 11.92 hrs, Volume= 0.611 af

Primary = 8.61 cfs @ 11.92 hrs, Volume= 0.611 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 214L: Existing Total Offsite



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Summary for Link 219L: Proposed Offsite Towards Pearl Street

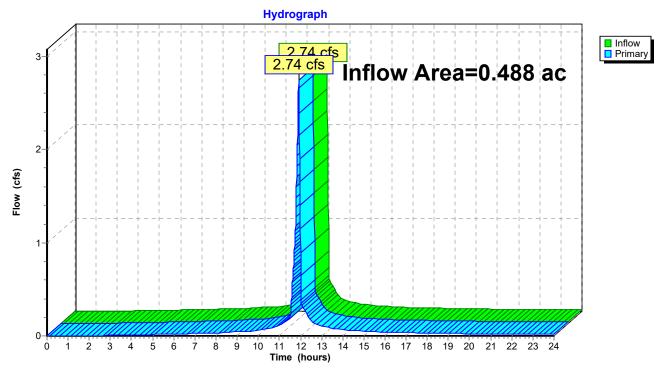
Inflow Area = 0.488 ac, 91.24% Impervious, Inflow Depth > 3.13" for 10 Year event

Inflow = 2.74 cfs @ 11.92 hrs, Volume= 0.127 af

Primary = 2.74 cfs @ 11.92 hrs, Volume= 0.127 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 219L: Proposed Offsite Towards Pearl Street



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Summary for Link 221L: Proposed Offsite To West (Then to Pearl Street)

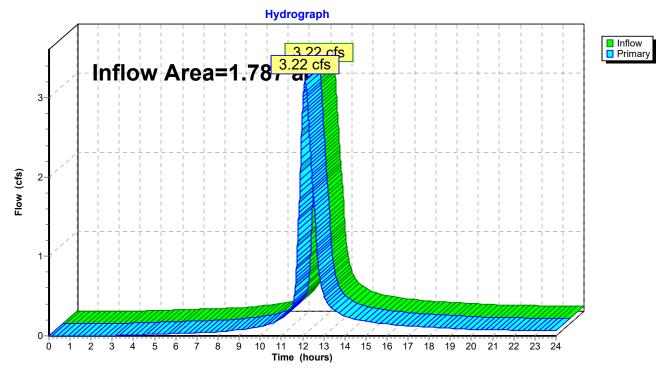
Inflow Area = 1.787 ac, 57.88% Impervious, Inflow Depth > 2.51" for 10 Year event

Inflow = 3.22 cfs @ 12.12 hrs, Volume= 0.373 af

Primary = 3.22 cfs @ 12.12 hrs, Volume= 0.373 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 221L: Proposed Offsite To West (Then to Pearl Street)



Type II 24-hr 10 Year Rainfall=3.50"

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Summary for Link 223L: Proposed Total Offsite

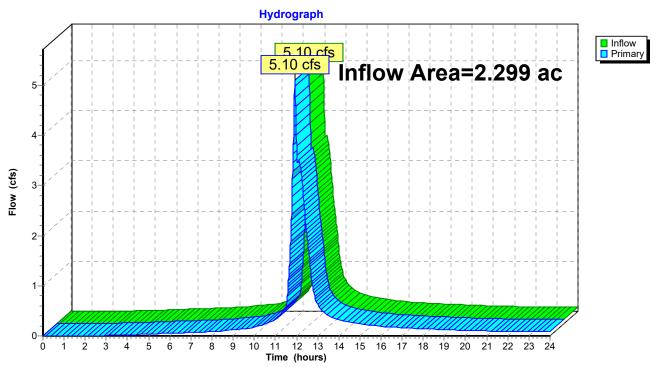
Inflow Area = 2.299 ac, 65.19% Impervious, Inflow Depth > 2.64" for 10 Year event

Inflow = 5.10 cfs @ 11.92 hrs, Volume= 0.506 af

Primary = 5.10 cfs @ 11.92 hrs, Volume= 0.506 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 223L: Proposed Total Offsite



Type II 24-hr 10 Year Rainfall=3.50"

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Summary for Link 224L: Proposed Offsite to North

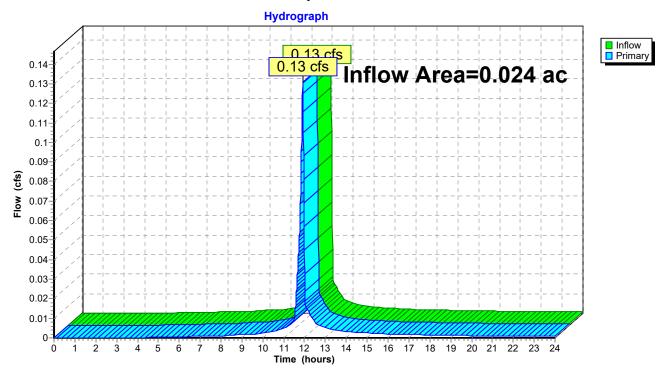
Inflow Area = 0.024 ac, 79.87% Impervious, Inflow Depth > 2.83" for 10 Year event

Inflow = 0.13 cfs @ 11.92 hrs, Volume= 0.006 af

Primary = 0.13 cfs @ 11.92 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 224L: Proposed Offsite to North



Type II 24-hr 100 Year Rainfall=5.70"

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Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 208S: DE 1	Runoff Area=48,988 sf 96.85% Impervious Runoff Depth>5.34" Flow Length=150' Tc=1.8 min CN=97 Runoff=10.35 cfs 0.501 af							
Subcatchment 209S: DE 2	Runoff Area=44,803 sf 100.00% Impervious Runoff Depth>5.44" Flow Length=295' Tc=21.2 min CN=98 Runoff=5.34 cfs 0.466 af							
Subcatchment 210S: DE 3	Runoff Area=6,446 sf 81.24% Impervious Runoff Depth>5.11" Flow Length=116' Tc=1.8 min CN=95 Runoff=1.34 cfs 0.063 af							
Subcatchment 216S: DP 1	Runoff Area=26,535 sf 100.00% Impervious Runoff Depth>5.46" Flow Length=305' Tc=2.6 min CN=98 Runoff=5.50 cfs 0.277 af							
Subcatchment 218S: DP 2 Flow Length=	Runoff Area=16,373 sf 92.08% Impervious Runoff Depth>5.34" 58' Slope=0.0200 '/' Tc=1.5 min CN=97 Runoff=3.49 cfs 0.167 af							
Subcatchment 219S: DP 4 Flow Length=24:	Runoff Area=17,265 sf 66.70% Impervious Runoff Depth>4.76" 5' Slope=0.0075 '/' Tc=18.3 min CN=92 Runoff=2.09 cfs 0.157 af							
Subcatchment 220S: DP 5	Runoff Area=19,379 sf 7.48% Impervious Runoff Depth>3.59" Flow Length=287' Tc=20.4 min CN=81 Runoff=1.76 cfs 0.133 af							
Subcatchment 221S: DP 3	Runoff Area=4,878 sf 88.42% Impervious Runoff Depth>5.23" Flow Length=65' Tc=1.1 min CN=96 Runoff=1.04 cfs 0.049 af							
Subcatchment 222S: DP 6 Flow Length=	Runoff Area=1,063 sf 79.87% Impervious Runoff Depth>5.00" 35' Slope=0.0200 '/' Tc=1.5 min CN=94 Runoff=0.22 cfs 0.010 af							
Subcatchment 223S: DP 7	Runoff Area=14,659 sf 37.87% Impervious Runoff Depth>4.22" Flow Length=128' Tc=9.0 min CN=87 Runoff=2.17 cfs 0.118 af							
Pond 217P: Dry Pond #1	Peak Elev=516.51' Storage=5,126 cf Inflow=8.35 cfs 0.553 af Outflow=3.47 cfs 0.548 af							
Link 211L: Existing Offsite Towards Pea	Inflow=10.35 cfs 0.501 af Primary=10.35 cfs 0.501 af							
Link 212L: Existing Offsite to West (Then to Pearl Street) Inflow=5.34 cfs 0.466 Primary=5.34 cfs 0.466								
Link 213L: Existing Offsite to North Inflow=1.34 cfs 0.063 Primary=1.34 cfs 0.063								
Link 214L: Existing Total Offsite	Inflow=14.22 cfs 1.030 af Primary=14.22 cfs 1.030 af							
Link 219L: Proposed Offsite Towards Pearl Street Inflow=4.53 cfs 0.21 Primary=4.53 cfs 0.21								

	pe II 24-hr 100 Year Rainfall=5.70"
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Link 221L: Proposed Offsite To West (Then to Pearl Street)	Inflow=5.23 cfs 0.682 af
	Primary=5.23 cfs 0.682 af
Link 2021 - Dramagad Tatal Offsita	Inflow=8.17 cfs 0.908 af
Link 223L: Proposed Total Offsite	
	Primary=8.17 cfs 0.908 af
Link 224L: Proposed Offsite to North	Inflow=0.22 cfs 0.010 af
Link 22-12. I Toposcu Offsite to North	Primary=0.22 cfs 0.010 af
	1 1111ai y = 0.22 dis 0.010 ai

Total Runoff Area = 4.600 ac Runoff Volume = 1.943 af Average Runoff Depth = 5.07" 18.77% Pervious = 0.863 ac 81.23% Impervious = 3.737 ac

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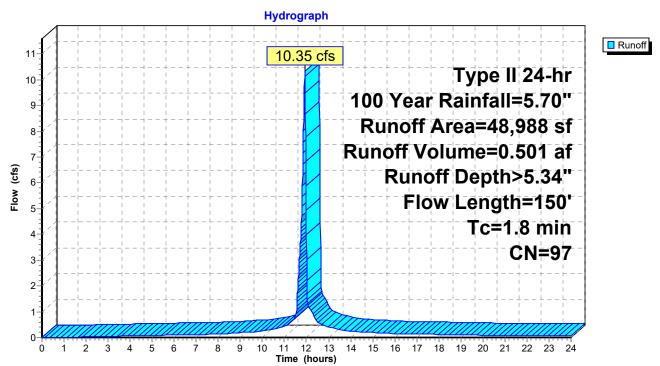
Summary for Subcatchment 208S: DE 1

10.35 cfs @ 11.92 hrs, Volume= 0.501 af, Depth> 5.34" Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

_	Α	rea (sf)	CN D	Description						
		1,544		, ,						
_		47,444			ing, HSG D					
		48,988		Veighted A						
		1,544	3	.15% Perv	ious Area					
		47,444	9	6.85% Imp	pervious Are	ea				
				_						
	Tc	Length	Slope	Velocity	Capacity	Description				
	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	·				
	1.3	90	0.0200	1.19		Sheet Flow, sheet over roof				
						Smooth surfaces n= 0.011 P2= 2.50"				
	0.2	10	0.0230	0.81		Sheet Flow, Remainder of sheet flow				
	· · _	. •	0.0200	0.0.		Smooth surfaces n= 0.011 P2= 2.50"				
	0.3	50	0.0230	3.08		Shallow Concentrated Flow, SC over asphalt				
	3.0	00	0.0200	3.00		Paved Kv= 20.3 fps				
_	1.8	150	Total			1 4104 111 20.0 190				

Subcatchment 208S: DE 1



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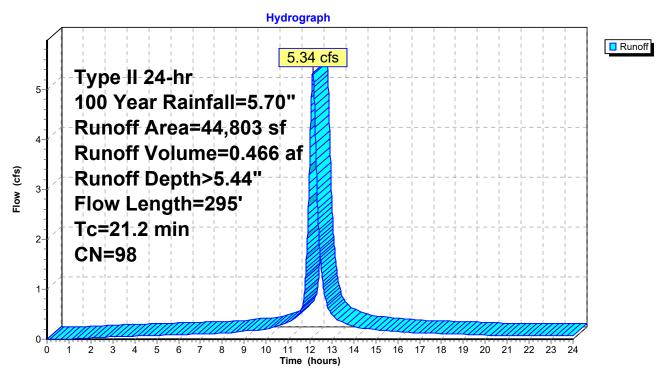
Summary for Subcatchment 209S: DE 2

Runoff = 5.34 cfs @ 12.13 hrs, Volume= 0.466 af, Depth> 5.44"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

_	Α	rea (sf)	CN I	Description					
		11,400	98 I	Paved parking, HSG D					
_		33,403	98 I	Paved park	ing, HSG D				
_		44,803 98 Weighted Average							
44,803 100.00% Impervious Ar					npervious A	ırea			
	Тс	Length	Slope	,	Capacity	Description			
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	20.1	100	0.0045	0.08		Sheet Flow, Sheet over Lawn			
						Grass: Short n= 0.150 P2= 2.50"			
	1.1	195	0.0370	2.89		Shallow Concentrated Flow, SC Over Lawn			
						Grassed Waterway Kv= 15.0 fps			
	21.2	295	Total						

Subcatchment 209S: DE 2



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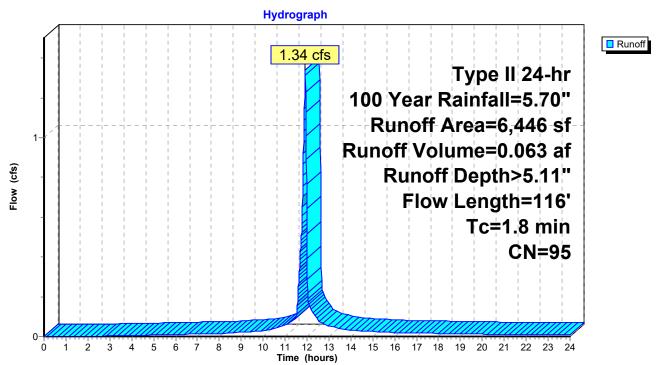
Summary for Subcatchment 210S: DE 3

Runoff = 1.34 cfs @ 11.92 hrs, Volume= 0.063 af, Depth> 5.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

	Α	rea (sf)	CN [CN Description						
		5,237 1,209		Paved parking, HSG D >75% Grass cover, Good, HSG D						
٠		6,446 1,209 5,237	95 \	, , ,						
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
	1.7	100	0.0120	0.99		Sheet Flow, Sheet over Pavement / gravel pad Smooth surfaces n= 0.011 P2= 2.50"				
	0.1	11	0.0200	2.28		Shallow Concentrated Flow, SC over remainder of grave Unpaved Kv= 16.1 fps				
	0.0	5	0.0300	2.60		Shallow Concentrated Flow, SC over lawn Grassed Waterway Kv= 15.0 fps				
•	1.8	116	Total			<u> </u>				

Subcatchment 210S: DE 3



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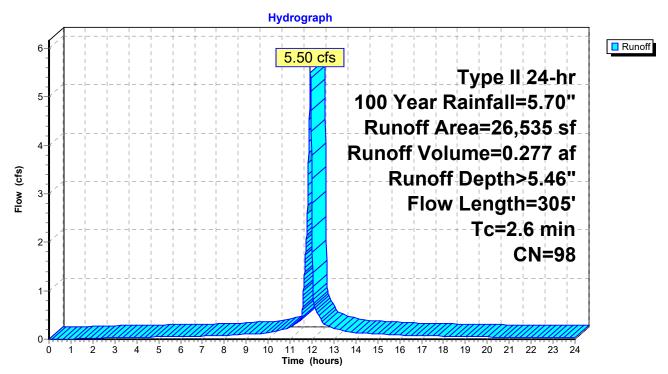
Summary for Subcatchment 216S: DP 1

Runoff = 5.50 cfs @ 11.93 hrs, Volume= 0.277 af, Depth> 5.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

Α	rea (sf)	CN E	escription							
	26,535	98 L	98 Unconnected roofs, HSG D							
	26,535		100.00% Impervious Area							
	26,535	1	00.00% Uı	nconnected						
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
1.8	45	0.0020	0.41		Sheet Flow, Sheet over Roof Smooth surfaces n= 0.011 P2= 2.50"					
 8.0	260	0.0100	5.26	6.46	Pipe Channel, Flow through roof drain piping 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013 Corrugated PE, smooth interior					
26	305	Total								

Subcatchment 216S: DP 1



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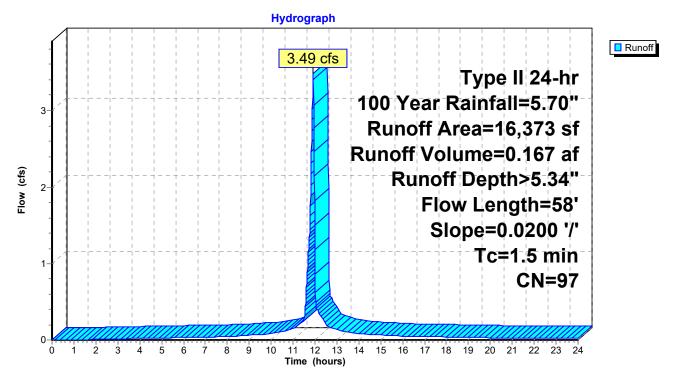
Summary for Subcatchment 218S: DP 2

Runoff = 3.49 cfs @ 11.92 hrs, Volume= 0.167 af, Depth> 5.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

A	rea (sf)	CN E	CN Description						
	1,296	80 >	75% Gras	s cover, Go	ood, HSG D				
	15,077	98 F	aved park	ing, HSG D					
	16,373	97 V	Veighted A	verage					
	1,296	7	.92% Perv	ious Area					
	15,077	9	2.08% Imp	pervious Are	ea				
_									
Tc	Length	Slope	Velocity	Capacity	Description				
(min)_	(feet)	(ft/ft)	(ft/sec)	(cfs)					
8.0	55	0.0200	1.08		Sheet Flow, Sheet over Pavement				
					Smooth surfaces n= 0.011 P2= 2.50"				
0.7	3	0.0200	0.07		Sheet Flow, Sheet over lawn				
					Grass: Short n= 0.150 P2= 2.50"				
1.5	58	Total							

Subcatchment 218S: DP 2



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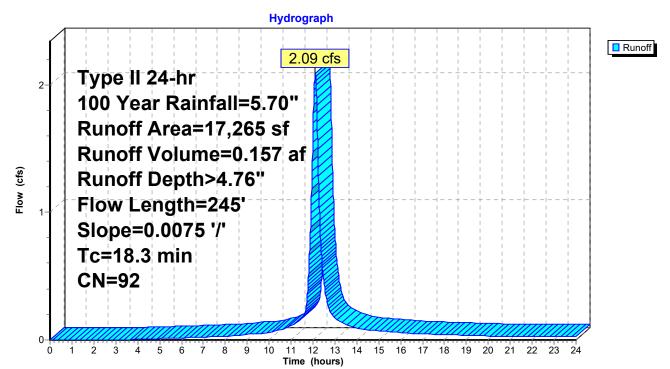
Summary for Subcatchment 219S: DP 4

Runoff = 2.09 cfs @ 12.10 hrs, Volume= 0.157 af, Depth> 4.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

	Α	rea (sf)	CN E	N Description						
		11,516		Paved parking, HSG D						
_		5,749	80 >	75% Grass cover, Good, HSG D						
		17,265	92 V	92 Weighted Average						
		5,749	3	3.30% Per	vious Area					
		11,516	6	6.70% Imp	ervious Ar	ea				
	Тс	Length	Slope	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	16.4	100	0.0075	0.10		Sheet Flow, Sheet in Dry Swale				
						Grass: Short n= 0.150 P2= 2.50"				
	1.9	145	0.0075	1.30		Shallow Concentrated Flow, SC in Dry Swale				
_						Grassed Waterway Kv= 15.0 fps				
	18.3	245	Total	·	·					

Subcatchment 219S: DP 4



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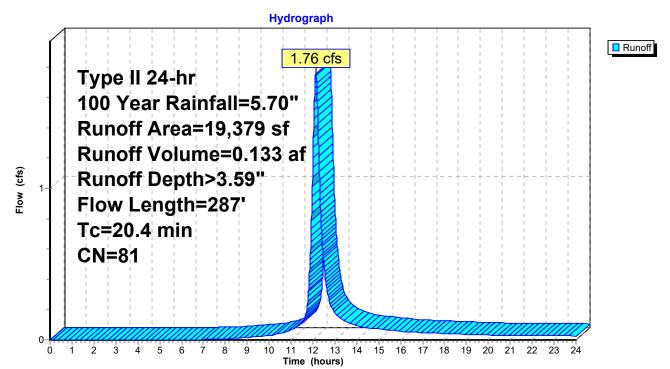
Summary for Subcatchment 220S: DP 5

Runoff = 1.76 cfs @ 12.13 hrs, Volume= 0.133 af, Depth> 3.59"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

_	Α	rea (sf)	CN E	Description						
		1,450	98 F	Paved parking, HSG D						
_		17,929	80 >	>75% Grass cover, Good, HSG D						
		19,379	81 V	Veighted A	verage					
		17,929	9	2.52% Per	vious Area					
		1,450	7	.48% Impe	ervious Area	а				
	_									
	Тс	Length	Slope	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	19.3	100	0.0050	0.09		Sheet Flow, Sheet over Lawn				
						Grass: Short n= 0.150 P2= 2.50"				
	1.1	187	0.0375	2.90		Shallow Concentrated Flow, SC Over Lawn				
_						Grassed Waterway Kv= 15.0 fps				
	20.4	287	Total							

Subcatchment 220S: DP 5



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Summary for Subcatchment 221S: DP 3

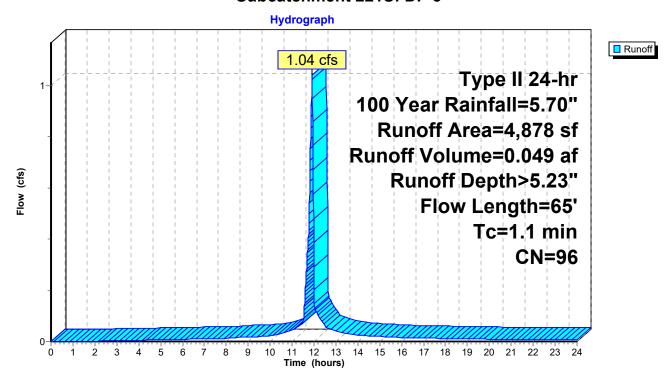
[49] Hint: Tc<2dt may require smaller dt

1.04 cfs @ 11.91 hrs, Volume= 0.049 af, Depth> 5.23" Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

A	rea (sf)	CN [Description						
	565	80 >	>75% Grass cover, Good, HSG D						
	4,313	98 F	Paved park	ing, HSG D					
	4,878	96 \	Veighted A	verage					
	565	1	1.58% Per	vious Area					
	4,313	3	38.42% Imp	pervious Ar	ea				
Tc	Length	Slope	Velocity	Capacity	Description				
(min)_	(feet)	(ft/ft)	(ft/sec)	(cfs)					
0.7	60	0.0400	1.45		Sheet Flow, Sheet over Pavement				
					Smooth surfaces n= 0.011 P2= 2.50"				
0.4	5	0.1600	0.19		Sheet Flow, Sheet over lawn				
					Grass: Short n= 0.150 P2= 2.50"				
1.1	65	Total							

Subcatchment 221S: DP 3



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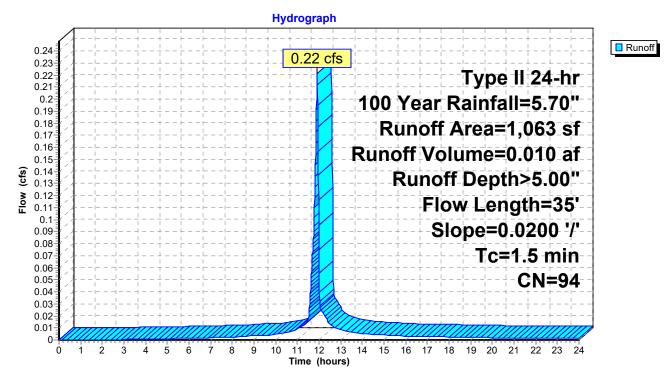
Summary for Subcatchment 222S: DP 6

Runoff = 0.22 cfs @ 11.92 hrs, Volume= 0.010 af, Depth> 5.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

A	rea (sf)	CN E	escription						
	849	98 F	Paved parking, HSG D						
	214	80 >	75% Gras	s cover, Go	ood, HSG D				
	1,063	94 V	Veighted A	verage					
	214	2	0.13% Per	vious Area					
	849	7	9.87% Imp	pervious Are	ea				
Tc	Length	Slope	Velocity	Capacity	Description				
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)					
0.5	30	0.0200	0.96		Sheet Flow, sheet over gravel				
1.0	5	0.0200	0.08		Smooth surfaces n= 0.011 P2= 2.50" Sheet Flow, sheet over lawn Grass: Short n= 0.150 P2= 2.50"				
1.5	35	Total							

Subcatchment 222S: DP 6



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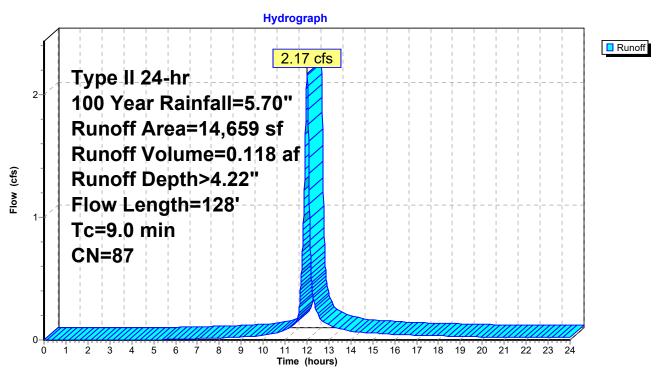
Summary for Subcatchment 223S: DP 7

Runoff = 2.17 cfs @ 12.00 hrs, Volume= 0.118 af, Depth> 4.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr 100 Year Rainfall=5.70"

_	Α	rea (sf)	CN D	N Description						
		5,551			ing, HSG D					
_		9,108	80 >	75% Grass	s cover, Go	ood, HSG D				
		14,659	87 V	Veighted A	verage					
		9,108	6	2.13% Per	vious Area					
		5,551	3	7.87% Imp	ervious Ar	ea				
	_				_					
	Тс	Length	Slope	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	8.9	100	0.0350	0.19		Sheet Flow, Sheet Over Lawn to Stormwater Pond				
						Grass: Short n= 0.150 P2= 2.50"				
	0.1	28	0.2500	7.50		Shallow Concentrated Flow, SC over lawn				
_						Grassed Waterway Kv= 15.0 fps				
	9.0	128	Total							

Subcatchment 223S: DP 7



Type II 24-hr 100 Year Rainfall=5.70"

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Summary for Pond 217P: Dry Pond #1

Inflow Area = 1.342 ac, 74.59% Impervious, Inflow Depth > 4.94" for 100 Year event

Inflow 8.35 cfs @ 11.94 hrs, Volume= 0.553 af

3.47 cfs @ 12.14 hrs, Volume= Outflow = 0.548 af, Atten= 58%, Lag= 11.9 min

3.47 cfs @ 12.14 hrs, Volume= Primary 0.548 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 516.51' @ 12.14 hrs Surf.Area= 2,991 sf Storage= 5,126 cf

Plug-Flow detention time= 22.9 min calculated for 0.548 af (99% of inflow)

Center-of-Mass det. time= 17.6 min (781.2 - 763.5)

Volume	ne Invert Avail.Storage		rage Sto	rage Description			
#1	514.10	7,0	32 cf Cu	stom Stage Data (Prismatic)Listed below (Recalc)			
(fee	Elevation Surf.Area (feet) (sq-ft) 514.10 1,271 517.10 3,417		Inc.Sto (cubic-fee	et) (cubic-feet) 0 0			
Device	Routing	Invert	Outlet D	evices			
#1	Primary	514.10'	12.0" Round 12" HDPE				
				CPP, square edge headwall, Ke= 0.500			
			Inlet / Outlet Invert= 514.10' / 513.70' S= 0.0100 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf				
#2	#2 Device 1 514.10'		12.0" W x 5.0" H Vert. 1 Year C= 0.600				
#3	Device 1	514.90'	3.0" Ver	t. 10 yr C= 0.600			
#4	Device 1	515.60'	3.0" Ver	t. 100 yr C= 0.600			

Primary OutFlow Max=3.47 cfs @ 12.14 hrs HW=516.50' (Free Discharge)

-1=12" HDPE (Passes 3.47 cfs of 5.10 cfs potential flow)

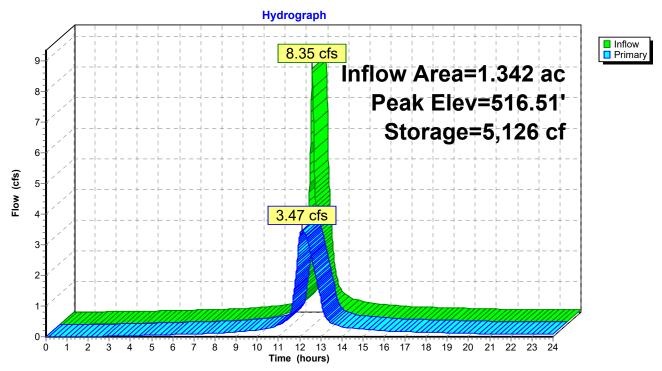
-2=1 Year (Orifice Controls 2.97 cfs @ 7.13 fps)

-3=10 yr (Orifice Controls 0.29 cfs @ 5.86 fps)

-4=100 yr (Orifice Controls 0.21 cfs @ 4.25 fps)

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Pond 217P: Dry Pond #1



Type II 24-hr 100 Year Rainfall=5.70"

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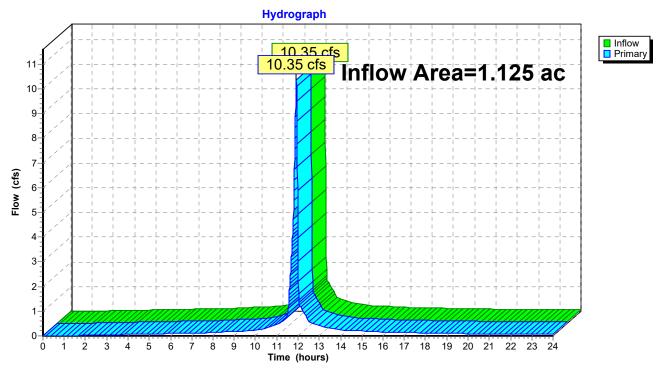
Summary for Link 211L: Existing Offsite Towards Pearl Street

Inflow Area = 1.125 ac, 96.85% Impervious, Inflow Depth > 5.34" for 100 Year event

Inflow = 10.35 cfs @ 11.92 hrs, Volume= 0.501 af

Primary = 10.35 cfs @ 11.92 hrs, Volume= 0.501 af, Atten= 0%, Lag= 0.0 min

Link 211L: Existing Offsite Towards Pearl Street



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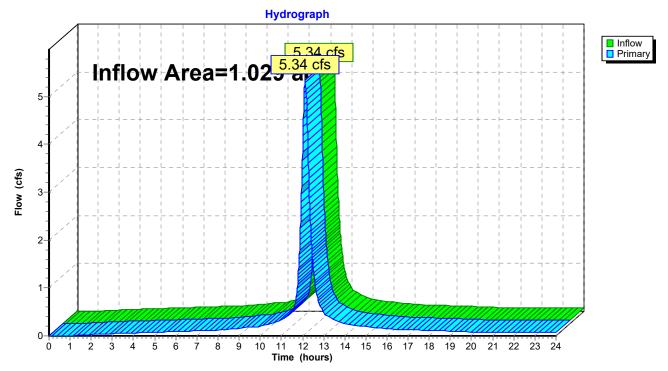
Summary for Link 212L: Existing Offsite to West (Then to Pearl Street)

Inflow Area = 1.029 ac,100.00% Impervious, Inflow Depth > 5.44" for 100 Year event

Inflow = 5.34 cfs @ 12.13 hrs, Volume= 0.466 af

Primary = 5.34 cfs @ 12.13 hrs, Volume= 0.466 af, Atten= 0%, Lag= 0.0 min

Link 212L: Existing Offsite to West (Then to Pearl Street)



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Summary for Link 213L: Existing Offsite to North

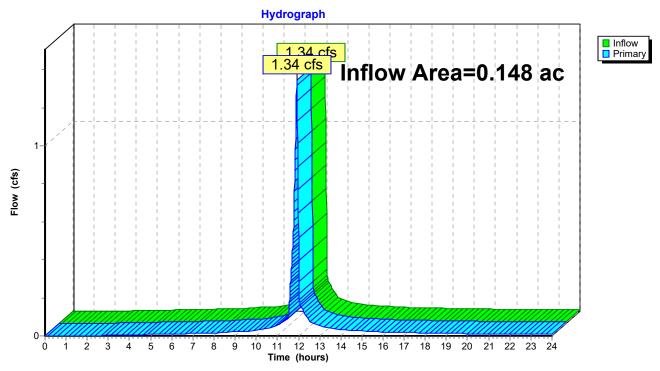
Inflow Area = 0.148 ac, 81.24% Impervious, Inflow Depth > 5.11" for 100 Year event

Inflow = 1.34 cfs @ 11.92 hrs, Volume= 0.063 af

Primary = 1.34 cfs @ 11.92 hrs, Volume= 0.063 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 213L: Existing Offsite to North



Type II 24-hr 100 Year Rainfall=5.70"

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Summary for Link 214L: Existing Total Offsite

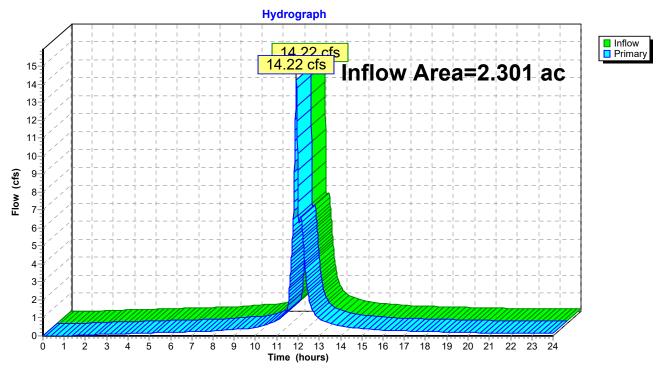
Inflow Area = 2.301 ac, 97.25% Impervious, Inflow Depth > 5.37" for 100 Year event

Inflow = 14.22 cfs @ 11.92 hrs, Volume= 1.030 af

Primary = 14.22 cfs @ 11.92 hrs, Volume= 1.030 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 214L: Existing Total Offsite



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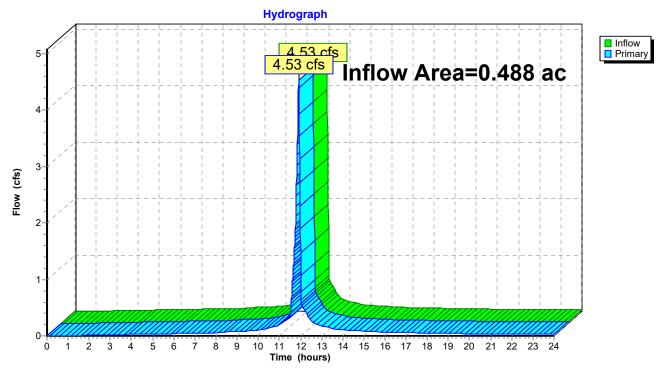
Summary for Link 219L: Proposed Offsite Towards Pearl Street

Inflow Area = 0.488 ac, 91.24% Impervious, Inflow Depth > 5.32" for 100 Year event

Inflow = 4.53 cfs @ 11.92 hrs, Volume= 0.216 af

Primary = 4.53 cfs @ 11.92 hrs, Volume= 0.216 af, Atten= 0%, Lag= 0.0 min

Link 219L: Proposed Offsite Towards Pearl Street



Type II 24-hr 100 Year Rainfall=5.70"

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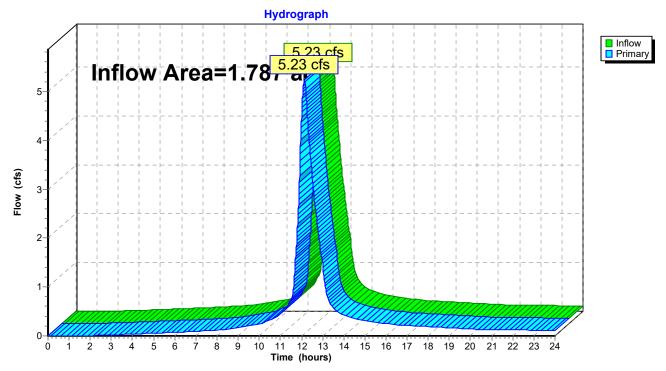
Summary for Link 221L: Proposed Offsite To West (Then to Pearl Street)

Inflow Area = 1.787 ac, 57.88% Impervious, Inflow Depth > 4.58" for 100 Year event

Inflow = 5.23 cfs @ 12.13 hrs, Volume= 0.682 af

Primary = 5.23 cfs @ 12.13 hrs, Volume= 0.682 af, Atten= 0%, Lag= 0.0 min

Link 221L: Proposed Offsite To West (Then to Pearl Street)



Type II 24-hr 100 Year Rainfall=5.70"

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Summary for Link 223L: Proposed Total Offsite

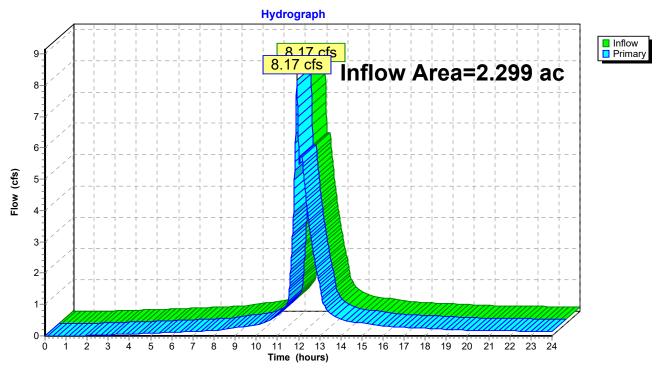
Inflow Area = 2.299 ac, 65.19% Impervious, Inflow Depth > 4.74" for 100 Year event

Inflow = 8.17 cfs @ 11.92 hrs, Volume= 0.908 af

Primary = 8.17 cfs @ 11.92 hrs, Volume= 0.908 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 223L: Proposed Total Offsite



Type II 24-hr 100 Year Rainfall=5.70"

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Summary for Link 224L: Proposed Offsite to North

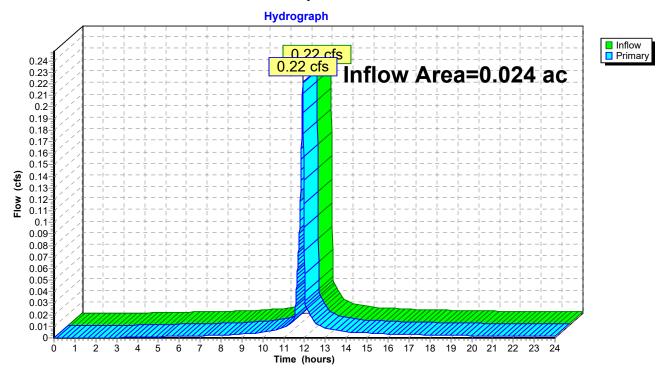
Inflow Area = 0.024 ac, 79.87% Impervious, Inflow Depth > 5.00" for 100 Year event

Inflow = 0.22 cfs @ 11.92 hrs, Volume= 0.010 af

Primary = 0.22 cfs @ 11.92 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 224L: Proposed Offsite to North



Type II 24-hr WQV Rainfall=0.90"

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Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Stor-Ind method - Pond routing by Stor-Ind method

Subcatchment 208S: DE 1	Runoff Area=48,988 sf 96.85% Impervious Runoff Depth>0.61" Flow Length=150' Tc=1.8 min CN=97 Runoff=1.37 cfs 0.057 af
Subcatchment 209S: DE 2	Runoff Area=44,803 sf 100.00% Impervious Runoff Depth>0.69" Flow Length=295' Tc=21.2 min CN=98 Runoff=0.75 cfs 0.059 af
Subcatchment 210S: DE 3	Runoff Area=6,446 sf 81.24% Impervious Runoff Depth>0.48" Flow Length=116' Tc=1.8 min CN=95 Runoff=0.15 cfs 0.006 af
Subcatchment 216S: DP 1	Runoff Area=26,535 sf 100.00% Impervious Runoff Depth>0.69" Flow Length=305' Tc=2.6 min CN=98 Runoff=0.79 cfs 0.035 af
Subcatchment 218S: DP 2 Flow Length=5	Runoff Area=16,373 sf 92.08% Impervious Runoff Depth>0.61" 8' Slope=0.0200 '/' Tc=1.5 min CN=97 Runoff=0.46 cfs 0.019 af
Subcatchment 219S: DP 4 Flow Length=245	Runoff Area=17,265 sf 66.70% Impervious Runoff Depth>0.33" ' Slope=0.0075 '/' Tc=18.3 min CN=92 Runoff=0.15 cfs 0.011 af
Subcatchment 220S: DP 5	Runoff Area=19,379 sf 7.48% Impervious Runoff Depth>0.07" Flow Length=287' Tc=20.4 min CN=81 Runoff=0.01 cfs 0.002 af
Subcatchment 221S: DP 3	Runoff Area=4,878 sf 88.42% Impervious Runoff Depth>0.54" Flow Length=65' Tc=1.1 min CN=96 Runoff=0.13 cfs 0.005 af
Subcatchment 222S: DP 6 Flow Length=3	Runoff Area=1,063 sf 79.87% Impervious Runoff Depth>0.42" 5' Slope=0.0200 '/' Tc=1.5 min CN=94 Runoff=0.02 cfs 0.001 af
Subcatchment 223S: DP 7	Runoff Area=14,659 sf 37.87% Impervious Runoff Depth>0.17" Flow Length=128' Tc=9.0 min CN=87 Runoff=0.08 cfs 0.005 af
Pond 217P: Dry Pond #1	Peak Elev=514.47' Storage=514 cf Inflow=0.89 cfs 0.051 af Outflow=0.51 cfs 0.049 af
Link 211L: Existing Offsite Towards Pear	Inflow=1.37 cfs 0.057 af Primary=1.37 cfs 0.057 af
Link 212L: Existing Offsite to West (Ther	Inflow=0.75 cfs 0.059 af Primary=0.75 cfs 0.059 af
Link 213L: Existing Offsite to North	Inflow=0.15 cfs 0.006 af Primary=0.15 cfs 0.006 af
Link 214L: Existing Total Offsite	Inflow=1.85 cfs 0.122 af Primary=1.85 cfs 0.122 af
Link 219L: Proposed Offsite Towards Pe	Inflow=0.59 cfs 0.024 af Primary=0.59 cfs 0.024 af

Hales Bus Garage Building Addition	Type II 24-hr WQV Rainfall=0.90"
Prepared by GYMO Architecture, Engineering, & Land Surveyir	ng D.P.C. Printed 11/9/2023
HydroCAD® 10.00-26 s/n 04395 © 2020 HydroCAD Software Solutions L	LC Page 73
Link 221L: Proposed Offsite To West (Then to Pearl Street)	Inflow=0.51 cfs 0.052 af
	Primary=0.51 cfs 0.052 af
Link 223L: Proposed Total Offsite	Inflow=0.96 cfs 0.077 af
	Primary=0.96 cfs 0.077 af
Link 224L: Proposed Offsite to North	Inflow=0.02 cfs 0.001 af
	Primary=0.02 cfs 0.001 af

Total Runoff Area = 4.600 ac Runoff Volume = 0.201 af Average Runoff Depth = 0.52" 18.77% Pervious = 0.863 ac 81.23% Impervious = 3.737 ac

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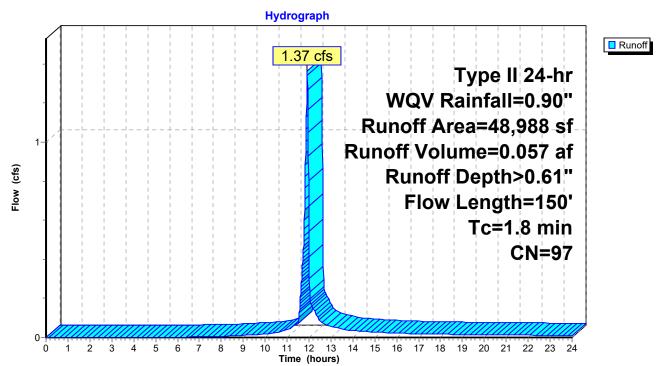
Summary for Subcatchment 208S: DE 1

Runoff = 1.37 cfs @ 11.92 hrs, Volume= 0.057 af, Depth> 0.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

Α	rea (sf)	CN D	escription						
	1,544		>75% Grass cover, Good, HSG D Paved parking, HSG D						
	47,444	98 P	aved park	ing, HSG L					
	48,988		Veighted A						
	1,544	3	.15% Perv	ious Area					
	47,444	9	6.85% Imp	ervious Ar	ea				
Tc	Length	Slope	Velocity	Capacity	Description				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
1.3	90	0.0200	1.19		Sheet Flow, sheet over roof				
					Smooth surfaces n= 0.011 P2= 2.50"				
0.2	10	0.0230	0.81		Sheet Flow, Remainder of sheet flow				
					Smooth surfaces n= 0.011 P2= 2.50"				
0.3	50	0.0230	3.08		Shallow Concentrated Flow, SC over asphalt				
0.0		5.0200	0.00		Paved Kv= 20.3 fps				
4.0	450	Takal			1 4 1 4 1 1 1 2 0 1 0 1 p 0				
1.8	150	Total							

Subcatchment 208S: DE 1



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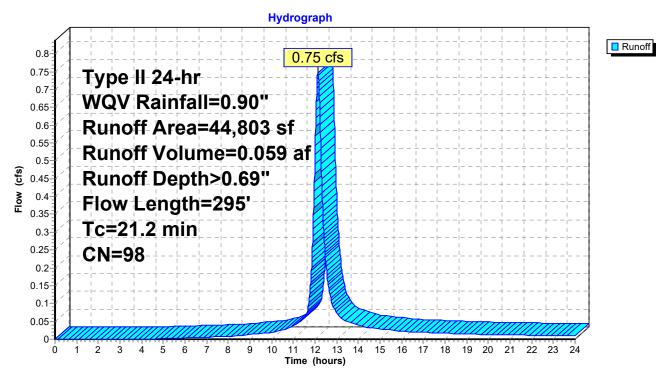
Summary for Subcatchment 209S: DE 2

Runoff = 0.75 cfs @ 12.13 hrs, Volume= 0.059 af, Depth> 0.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

_	Α	rea (sf)	CN I	Description					
		11,400	98	Paved parking, HSG D					
		33,403	98 I	Paved park	ing, HSG D				
		44,803	98 \	Neighted A	verage				
44,803 100.00% Impervious Area						ırea			
·									
	Тс	Length	Slope	,	Capacity	Description			
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	20.1	100	0.0045	0.08		Sheet Flow, Sheet over Lawn			
						Grass: Short n= 0.150 P2= 2.50"			
	1.1	195	0.0370	2.89		Shallow Concentrated Flow, SC Over Lawn			
_						Grassed Waterway Kv= 15.0 fps			
	21.2	295	Total						

Subcatchment 209S: DE 2



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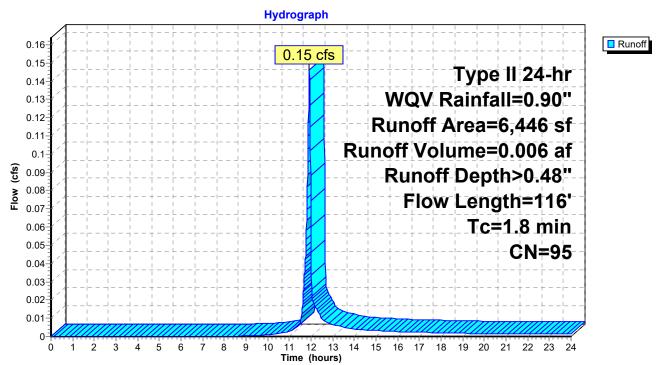
Summary for Subcatchment 210S: DE 3

Runoff = 0.15 cfs @ 11.92 hrs, Volume= 0.006 af, Depth> 0.48"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

Α	rea (sf)	CN [Description						
	5,237 1,209		1 3,						
	6,446 1,209 5,237	95 \	Weighted Average 18.76% Pervious Area 81.24% Impervious Area						
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
1.7	100	0.0120	0.99	, ,	Sheet Flow, Sheet over Pavement / gravel pad Smooth surfaces n= 0.011 P2= 2.50"				
0.1	11	0.0200	2.28		Shallow Concentrated Flow, SC over remainder of grave Unpaved Kv= 16.1 fps				
0.0	5	0.0300	2.60		Shallow Concentrated Flow, SC over lawn Grassed Waterway Kv= 15.0 fps				
1.8	116	Total			, , , , , , , , , , , , , , , , , , , ,				

Subcatchment 210S: DE 3



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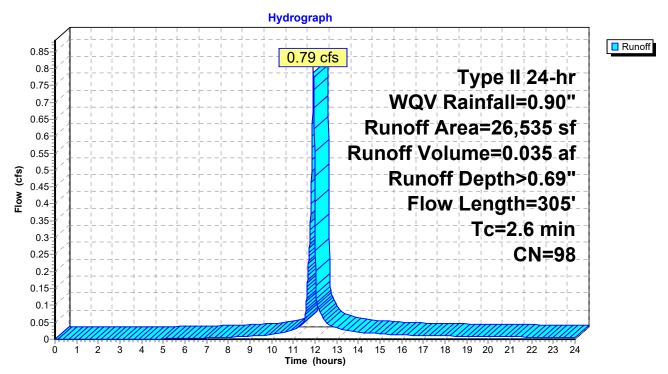
Summary for Subcatchment 216S: DP 1

Runoff = 0.79 cfs @ 11.93 hrs, Volume= 0.035 af, Depth> 0.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

_	Α	rea (sf)	CN E	Description		
		26,535	98 L	Inconnecte	ed roofs, HS	SG D
		26,535 26,535			pervious Anconnected	
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
-	1.8	45	0.0020	0.41		Sheet Flow, Sheet over Roof Smooth surfaces n= 0.011 P2= 2.50"
	0.8	260	0.0100	5.26	6.46	Pipe Channel, Flow through roof drain piping 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013 Corrugated PE, smooth interior
	2.6	305	Total			

Subcatchment 216S: DP 1



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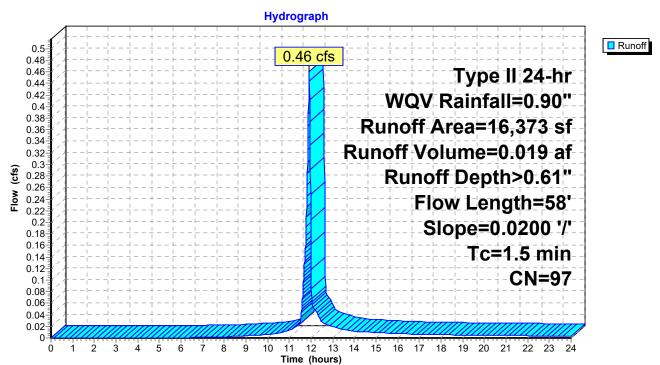
Summary for Subcatchment 218S: DP 2

Runoff = 0.46 cfs @ 11.92 hrs, Volume= 0.019 af, Depth> 0.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

A	rea (sf)	CN E	escription		
	1,296	80 >	75% Gras	s cover, Go	ood, HSG D
	15,077	98 F	aved park	ing, HSG D	
	16,373	97 V	Veighted A	verage	
	1,296	7	.92% Perv	ious Area	
	15,077	9	2.08% Imp	pervious Are	ea
_					
Tc	Length	Slope	Velocity	Capacity	Description
(min)_	(feet)	(ft/ft)	(ft/sec)	(cfs)	
8.0	55	0.0200	1.08		Sheet Flow, Sheet over Pavement
					Smooth surfaces n= 0.011 P2= 2.50"
0.7	3	0.0200	0.07		Sheet Flow, Sheet over lawn
					Grass: Short n= 0.150 P2= 2.50"
1.5	58	Total			

Subcatchment 218S: DP 2



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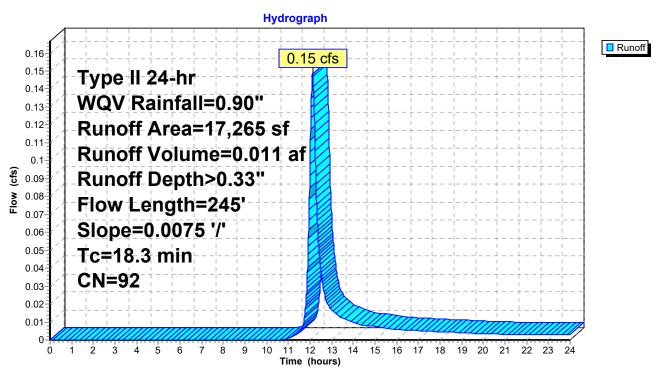
Summary for Subcatchment 219S: DP 4

Runoff = 0.15 cfs @ 12.12 hrs, Volume= 0.011 af, Depth> 0.33"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

_	Α	rea (sf)	CN E	Description						
		11,516	98 F	aved parki	ing, HSG D)				
_		5,749	80 >	75% Grass	s cover, Go	ood, HSG D				
		17,265	92 V	Veighted A	verage					
		5,749	3	3.30% Per	vious Area					
		11,516	6	6.70% Imp	ervious Ar	ea				
	Тс	Length	Slope	Velocity	Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	16.4	100	0.0075	0.10		Sheet Flow, Sheet in Dry Swale				
						Grass: Short n= 0.150 P2= 2.50"				
	1.9	145	0.0075	1.30		Shallow Concentrated Flow, SC in Dry Swale				
_						Grassed Waterway Kv= 15.0 fps				
	18.3	245	Total							

Subcatchment 219S: DP 4



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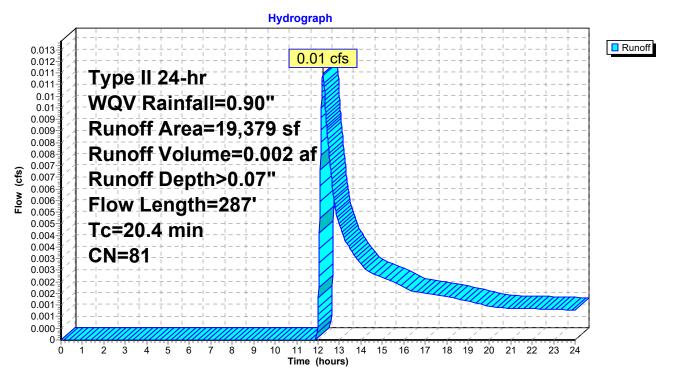
Summary for Subcatchment 220S: DP 5

Runoff = 0.01 cfs @ 12.24 hrs, Volume= 0.002 af, Depth> 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

_	Α	rea (sf)	CN E	Description									
		1,450	98 F	Paved parking, HSG D									
_		17,929	80 >	75% Gras	s cover, Go	ood, HSG D							
	19,379 81 Weighted Average												
	17,929 92.52% Pervious Area												
		1,450	7	.48% Impe	ervious Area	а							
	_												
	Тс	Length	Slope	Velocity	Capacity	Description							
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
	19.3	100	0.0050	0.09		Sheet Flow, Sheet over Lawn							
						Grass: Short n= 0.150 P2= 2.50"							
	1.1	187	0.0375	2.90		Shallow Concentrated Flow, SC Over Lawn							
_						Grassed Waterway Kv= 15.0 fps							
	20.4	287	Total										

Subcatchment 220S: DP 5



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Summary for Subcatchment 221S: DP 3

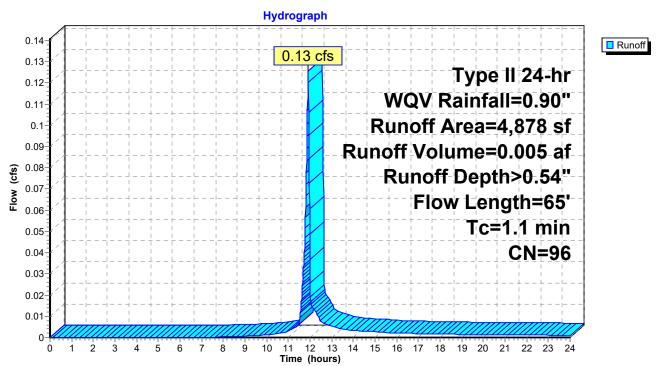
[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.13 cfs @ 11.91 hrs, Volume= 0.005 af, Depth> 0.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

A	rea (sf)	CN [Description Description									
	565	80 >	75% Gras	75% Grass cover, Good, HSG D								
	4,313	98 F	Paved park	ing, HSG D								
	4,878	96 V	Veighted A	eighted Average								
	565	1	11.58% Pervious Area									
	4,313	3	88.42% Imp	pervious Are	ea							
Тс	Length	Slope	Velocity	Capacity	Description							
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	2 coonpact							
0.7	60	0.0400	1.45		Sheet Flow, Sheet over Pavement							
					Smooth surfaces n= 0.011 P2= 2.50"							
0.4	5	0.1600	0.19		Sheet Flow, Sheet over lawn							
					Grass: Short n= 0.150 P2= 2.50"							
1.1	65	Total										

Subcatchment 221S: DP 3



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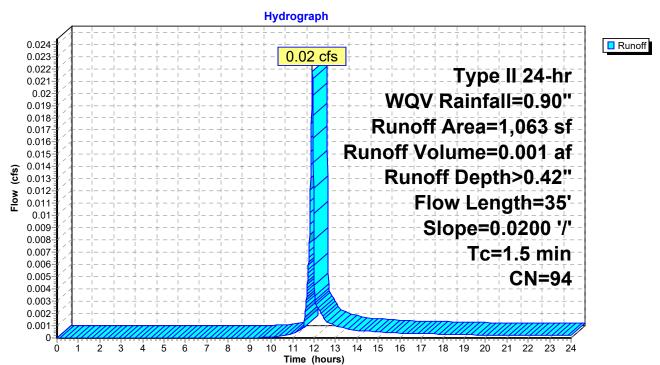
Summary for Subcatchment 222S: DP 6

Runoff = 0.02 cfs @ 11.92 hrs, Volume= 0.001 af, Depth> 0.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

A	rea (sf)	CN D	Description									
	849	98 F	aved parking, HSG D									
	214	80 >	75% Gras	s cover, Go	ood, HSG D							
	1,063	94 V	Veighted A	/eighted Average								
	214	2	0.13% Per	vious Area								
	849	7	9.87% Imp	ervious Are	ea							
_				_								
Tc	Length	Slope	Velocity	Capacity	Description							
<u>(min)</u>	(feet)	(ft/ft)	(ft/sec)	(cfs)								
0.5	30	0.0200	0.96		Sheet Flow, sheet over gravel							
					Smooth surfaces n= 0.011 P2= 2.50"							
1.0	5	0.0200	0.08		Sheet Flow, sheet over lawn							
					Grass: Short n= 0.150 P2= 2.50"							
1.5	35	Total										

Subcatchment 222S: DP 6



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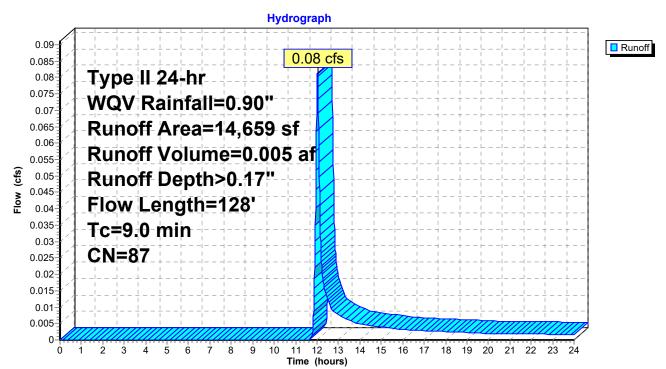
Summary for Subcatchment 223S: DP 7

Runoff = 0.08 cfs @ 12.03 hrs, Volume= 0.005 af, Depth> 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Type II 24-hr WQV Rainfall=0.90"

_	Α	rea (sf)	CN D	Description									
		5,551		Paved parking, HSG D									
_		9,108	80 >	75% Grass	s cover, Go	ood, HSG D							
	14,659 87 Weighted Average												
9,108 62.13% Pervious Area													
		5,551	3	7.87% Imp	ervious Ar	ea							
	_				_								
	Тс	Length	Slope	Velocity	Capacity	Description							
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)								
	8.9	100	0.0350	0.19		Sheet Flow, Sheet Over Lawn to Stormwater Pond							
						Grass: Short n= 0.150 P2= 2.50"							
	0.1	28	0.2500	7.50		Shallow Concentrated Flow, SC over lawn							
_						Grassed Waterway Kv= 15.0 fps							
	9.0	128	Total										

Subcatchment 223S: DP 7



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Summary for Pond 217P: Dry Pond #1

Inflow Area = 1.342 ac, 74.59% Impervious, Inflow Depth > 0.46" for WQV event

Inflow 0.89 cfs @ 11.93 hrs, Volume= 0.051 af

0.51 cfs @ 12.01 hrs, Volume= Outflow = 0.049 af, Atten= 43%, Lag= 4.7 min

0.51 cfs @ 12.01 hrs, Volume= Primary 0.049 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs Peak Elev= 514.47' @ 12.01 hrs Surf.Area= 1,533 sf Storage= 514 cf

Plug-Flow detention time= 46.3 min calculated for 0.049 af (97% of inflow)

Center-of-Mass det. time= 28.2 min (838.9 - 810.7)

Volume	Inve	rt Avail.Sto	rage	Storage De	escription	
#1	514.10	0' 7,0	32 cf	Custom S	tage Data (P	rismatic)Listed below (Recalc)
Elevation (fee	et)	Surf.Area (sq-ft)	Inc.s		Cum.Store (cubic-feet)	
514.1	-	1,271		0	0	
517.	10	3,417	7	7,032	7,032	
Device	Routing	Invert	Outle	t Devices		
#1	Primary	514.10'	12.0"	Round 12	2" HDPE	
						headwall, Ke= 0.500
			Inlet /	Outlet Inve	ert= 514.10' /	513.70' S= 0.0100 '/' Cc= 0.900
			n = 0.0	013 Corrug	gated PE, sm	ooth interior, Flow Area= 0.79 sf
#2	Device 1	514.10'	12.0"	' W x 5.0" F	H Vert. 1 Yea	r C = 0.600
#3	Device 1	514.90'	3.0" \	Vert. 10 yr	C = 0.600	
#4	Device 1	515.60'	3.0" \	Vert. 100 y	r C= 0.600	

Primary OutFlow Max=0.51 cfs @ 12.01 hrs HW=514.47' (Free Discharge)

-1=12" HDPE (Barrel Controls 0.51 cfs @ 2.89 fps)

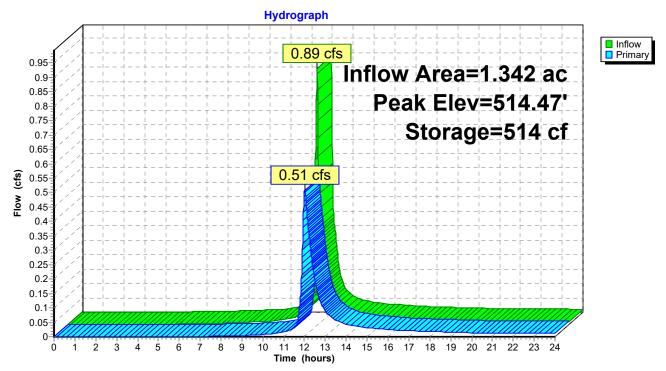
2=1 Year (Passes 0.51 cfs of 0.71 cfs potential flow)

-3=10 yr (Controls 0.00 cfs)

-4=100 yr (Controls 0.00 cfs)

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Pond 217P: Dry Pond #1



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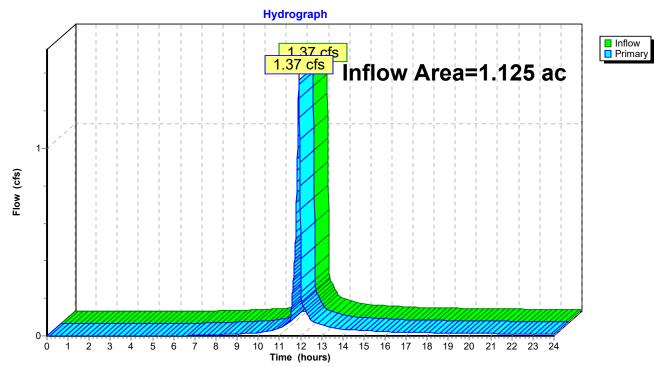
Summary for Link 211L: Existing Offsite Towards Pearl Street

Inflow Area = 1.125 ac, 96.85% Impervious, Inflow Depth > 0.61" for WQV event

Inflow = 1.37 cfs @ 11.92 hrs, Volume= 0.057 af

Primary = 1.37 cfs @ 11.92 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min

Link 211L: Existing Offsite Towards Pearl Street



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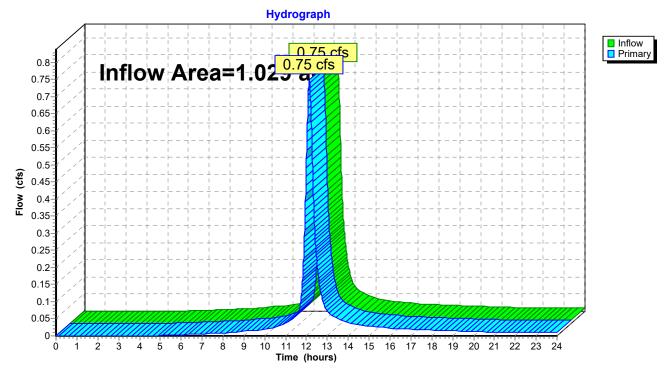
Summary for Link 212L: Existing Offsite to West (Then to Pearl Street)

Inflow Area = 1.029 ac,100.00% Impervious, Inflow Depth > 0.69" for WQV event

Inflow = 0.75 cfs @ 12.13 hrs, Volume= 0.059 af

Primary = 0.75 cfs @ 12.13 hrs, Volume= 0.059 af, Atten= 0%, Lag= 0.0 min

Link 212L: Existing Offsite to West (Then to Pearl Street)



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Summary for Link 213L: Existing Offsite to North

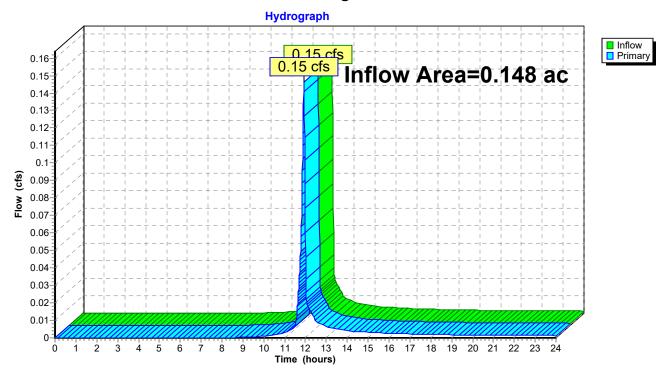
Inflow Area = 0.148 ac, 81.24% Impervious, Inflow Depth > 0.48" for WQV event

Inflow = 0.15 cfs @ 11.92 hrs, Volume= 0.006 af

Primary = 0.15 cfs @ 11.92 hrs, Volume= 0.006 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 213L: Existing Offsite to North



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Summary for Link 214L: Existing Total Offsite

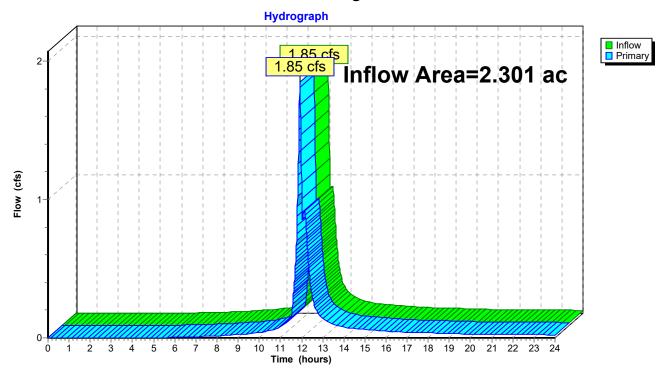
Inflow Area = 2.301 ac, 97.25% Impervious, Inflow Depth > 0.64" for WQV event

Inflow = 1.85 cfs @ 11.92 hrs, Volume= 0.122 af

Primary = 1.85 cfs @ 11.92 hrs, Volume= 0.122 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 214L: Existing Total Offsite



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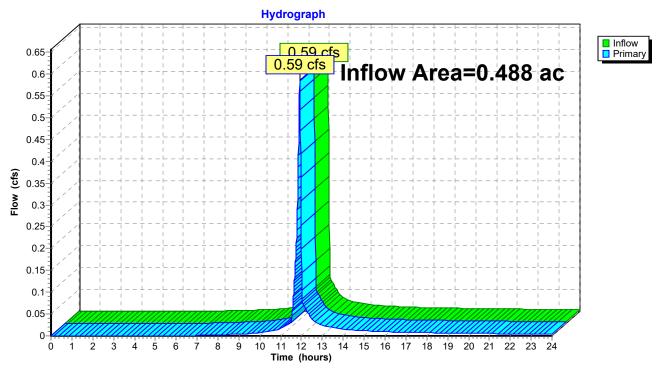
Summary for Link 219L: Proposed Offsite Towards Pearl Street

Inflow Area = 0.488 ac, 91.24% Impervious, Inflow Depth > 0.60" for WQV event

Inflow = 0.59 cfs @ 11.92 hrs, Volume= 0.024 af

Primary = 0.59 cfs @ 11.92 hrs, Volume= 0.024 af, Atten= 0%, Lag= 0.0 min

Link 219L: Proposed Offsite Towards Pearl Street



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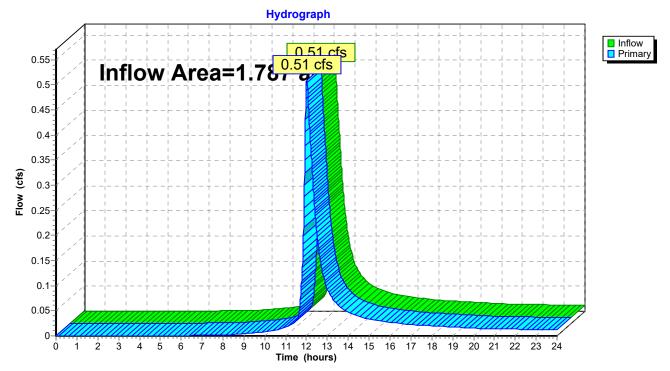
Summary for Link 221L: Proposed Offsite To West (Then to Pearl Street)

Inflow Area = 1.787 ac, 57.88% Impervious, Inflow Depth > 0.35" for WQV event

Inflow = 0.51 cfs @ 12.01 hrs, Volume= 0.052 af

Primary = 0.51 cfs @ 12.01 hrs, Volume= 0.052 af, Atten= 0%, Lag= 0.0 min

Link 221L: Proposed Offsite To West (Then to Pearl Street)



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Summary for Link 223L: Proposed Total Offsite

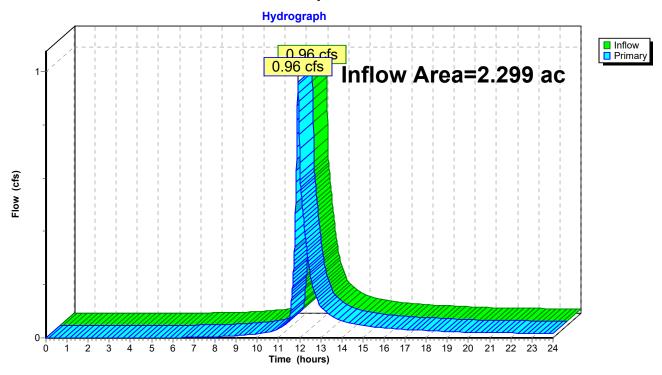
Inflow Area = 2.299 ac, 65.19% Impervious, Inflow Depth > 0.40" for WQV event

Inflow = 0.96 cfs @ 11.93 hrs, Volume= 0.077 af

Primary = 0.96 cfs @ 11.93 hrs, Volume= 0.077 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 223L: Proposed Total Offsite



Type II 24-hr WQV Rainfall=0.90"

Prepared by GYMO Architecture, Engineering, & Land Surveying D.P.C. HydroCAD® 10.00-26 s/n 04395 © 2020 HydroCAD Software Solutions LLC Printed 11/9/2023

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Summary for Link 224L: Proposed Offsite to North

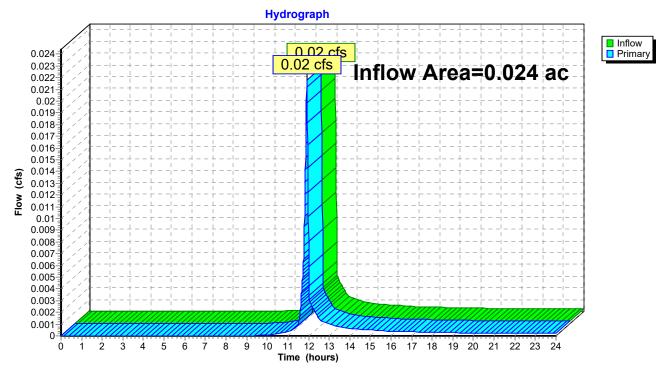
Inflow Area = 0.024 ac, 79.87% Impervious, Inflow Depth > 0.42" for WQV event

Inflow = 0.02 cfs @ 11.92 hrs, Volume= 0.001 af

Primary = 0.02 cfs @ 11.92 hrs, Volume= 0.001 af, Atten= 0%, Lag= 0.0 min

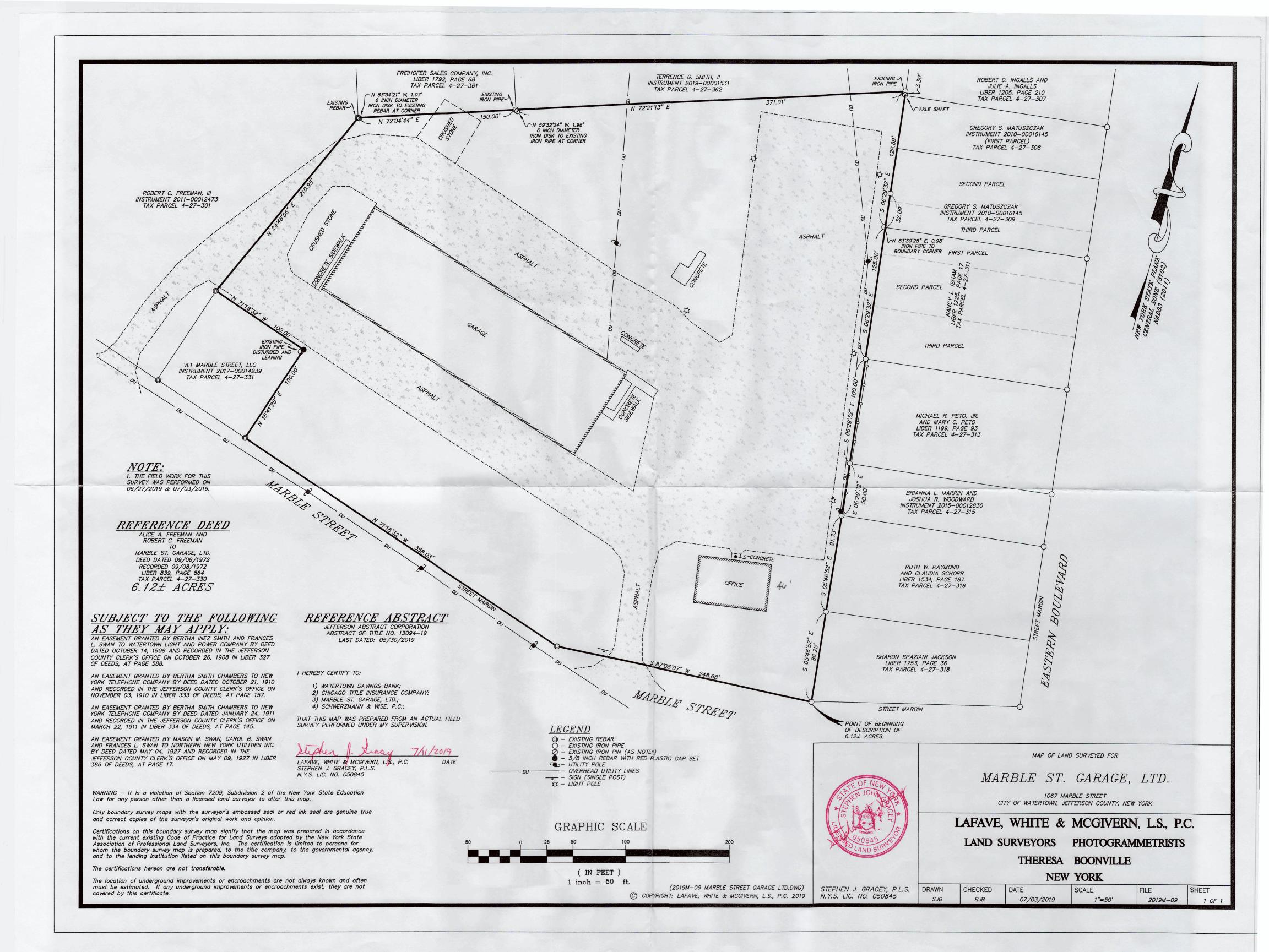
Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link 224L: Proposed Offsite to North



APPENDIX C: TRAFFIC IMPACTS

07-Nov-23	ITE Trip G								- .1:4: .										
	Pass-by r	ates from	IIIEI	rip Ge	neration	ı Han	abook	(- 2na	Editio	n		Instruct	<u>ions</u> : En	iter Expec	ted Unit	Volumes ii	nto Colun	nn 'M'	***************************************
Description/ITE Code		IT	E Vehic	cle Trip	Generat	ion Ra	ates			Expected	Total C	Senerated	Trips	T	otal Dist	ribution	of Gene	rated Tr	ips
	Units	(peak hours are for peak hour of adjacent street traffic unless highlighted)		hlighted)	Units														
		Weekday	AM	РМ	Pass-By	AM In	AM Out	PM In	PM Out		Daily	AM Hour	PM Hour	AM In	AM Out	Pass-By	PM In	PM Out	Pass-By
Automobile Care Center 942	Service Bays	12.48	1.52	2.17	7	68%	32%	NA	NA	4.0	50	6	9	4	2	0	NA	NA	0



FELT EVANS, LLP

ATTORNEYS AND COUNSELORS AT LAW

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Website: http://www.felt-evans.com

November 8, 2023

Via E-Mail

Mark Tompkins, Design Engineer GYMO, DPC 18969 US Route 11 Watertown, New York 13601 mtompkins@gymodpc.com

Re: Freeman & VL1 Marble Street LLC to Hale's Bus Garage, LLC Marble Street Garage

Dear Mr. Tompkins:

This office represents Hale's Bus Garage, LLC. Our client is in the process of closing on tax parcels 4-27-301.000 and 4-27-331.000 owned by Robert C. Freeman and VL1 Marble Street, LLC. We are in receipt of notice that the premises may be the subject of construction of stormwater facilities on the property. By copy of this letter to attorney Todd J. Doldo, I ask for his immediate attention in closing so that you might deal solely with our client moving forward insomuch as we can ensure the same does not interfere with our intended use of the properties.

Sincerely,

FELT EVANS, LLP

Anthony G. Hallak

AGH/lc

cc: Todd J. Doldo, Esq.

Hale's Bus Garage, LLC, Attn: Stephen Hale

Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

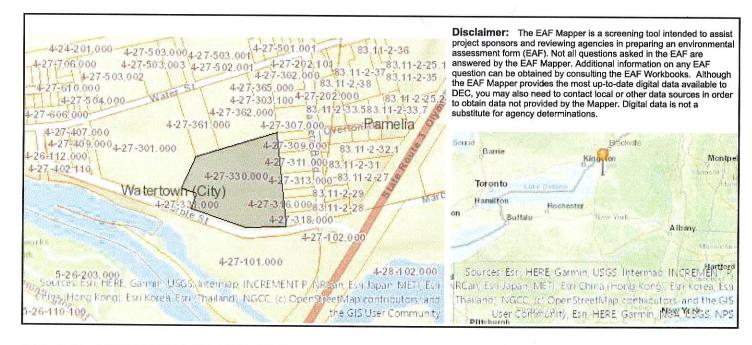
Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information							
Name of Action or Project:							
Hale's Transportation Building Addition							
Project Location (describe, and attach a location map):							
1067 Marble Street (Tax Parcel 4-27-330.000)							
Brief Description of Proposed Action:							
The proposed action includes the permitting, design, and construction of a +/- 4,500 SF addition to the existing Hale's Bus Garage facility at 1067 Marble Street. Two Area Variances would be required for the project. The parking lot / driveway would be expanded slightly to allow for traffic circulation around the expanded facility, a new holding tank would be installed for collection of floor-drain water in both the existing building and addition, and a new stormwater management area would be constructed on the neighboring parcel (also owned by Hale's Bus Garage, LLC) for the collection and attenuation of water from the new and existing building roof drains, and runoff from the new parking lot and driveway areas. In the existing building include the installtion of new exterior lighting and installation of new overhead shop doors.							
Name of Applicant or Sponsor:	Telephone: 315-853-8670)					
Hale's Bus Garage, LLC. (Contact Stephen Hale)	E-Mail: stephen@haletra	nsportationgroup.com					
Address:							
37 Kirkland Ave							
City/PO:	State:	Zip Code:					
Clinton	NY	13323					
1. Does the proposed action only involve the legislative adoption of a plan, loca administrative rule, or regulation?	ıl law, ordinance,	NO YES					
If Yes, attach a narrative description of the intent of the proposed action and the e may be affected in the municipality and proceed to Part 2. If no, continue to ques		at 🔽 🗆					
2. Does the proposed action require a permit, approval or funding from any other		NO YES					
If Yes, list agency(s) name and permit or approval: City of Watertown Site Plan Appro	val						
3. a. Total acreage of the site of the proposed action? b. Total acreage to be physically disturbed? c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 12.85 acres +/- 0.8 acres 13.08 acres							
4. Check all land uses that occur on, are adjoining or near the proposed action:							
5. Urban Rural (non-agriculture) 🗹 Industrial 🔽 Commercia	al 🗹 Residential (subur	ban)					
☐ Forest ☐ Agriculture	cify):						
☐ Parkland							

5.	Is	the proposed action,	NO	YES	N/A
	a.	A permitted use under the zoning regulations?		V	
	b.	Consistent with the adopted comprehensive plan?		V	
6.	Īs	the proposed action consistent with the predominant character of the existing built or natural landscape?	-	NO	YES
0.	15	the proposed action consistent with the predominant character of the existing built or natural landscape?			V
7.	Is	the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		NO	YES
If	es,	identify:		1	
				NO	YES
8.	a.	Will the proposed action result in a substantial increase in traffic above present levels?			IES
	Ъ.	Are public transportation services available at or near the site of the proposed action?			
	c.	Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?		<u></u>	
9.	Do	ses the proposed action meet or exceed the state energy code requirements?		NO	YES
Ift	ne p	roposed action will exceed requirements, describe design features and technologies:			
Prop	ose	d building addition will meet energy code requirements			V
10.	W	ill the proposed action connect to an existing public/private water supply?		NO	YES
		If No, describe method for providing potable water:		\Box	
	эгор	osed building addition will connect to the existing water service from City of Watertown water infrastructure.			
11.	Wi	ill the proposed action connect to existing wastewater utilities?		NO	YES
		If No, describe method for providing wastewater treatment:			
The	огор	osed building addition will connect to the existing onsite septic system.			V
		Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district	,	NO	YES
		s listed on the National or State Register of Historic Places, or that has been determined by the ssioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the		~	
		egister of Historic Places?	-	<u></u>	
					1
arcl	b. naec	Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for slogical sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?			<u></u>
13.		Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain tlands or other waterbodies regulated by a federal, state or local agency?		NO	YES
		Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?		~	
If Y	es,	identify the wetland or waterbody and extent of alterations in square feet or acres:			
		·			
					

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
Shoreline Forest Agricultural/grasslands Early mid-successional		
☐Wetland ☑ Urban ☐ Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or	NO	YES
Federal government as threatened or endangered? Northern Long-eared Bat		V
16. Is the project site located in the 100-year flood plan?	NO	YES
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes,		V
a. Will storm water discharges flow to adjacent properties?		V
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:	<u> </u>	
The proposed project would involve the construction of swales and stormwater dry ponds to treat stormwater and attenuate flows. The proposed stormwater dry pond will be located on the neighboring parcel, which is in the process of being sold to the applicant. The outfall of the dry pond will direct stormwater to the adjacent roadside ditch, and eventually flow to the Black River.		
18. Does the proposed action include construction or other activities that would result in the impoundment of water	NO	YES
or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment:		
The proposed project would involve the construction of stormwater swales and stormwater dry ponds. The dry pond may fill up with		V
stormwater during a rain event, however the pond will be designed to infiltrate and/or release stormwater at a controlled rate so that after rain events the pond holds no water.	II	<u> </u>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste	NO	YES
management facility? If Yes, describe:		
	~	
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste? If Yes, describe:		
	V	
		<u> </u>
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BE MY KNOWLEDGE	ST OF	
Applicant/sponsor/name: Hale's Bus Garage, LLC. (Contact Stephen Hale) Date: 10-18-23		
0. 6.11		
Signature: Xtephon Hale, Title: Menhan		



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 15 [Threatened or Endangered Animal - Name]	Northern Long-eared Bat
Part 1 / Question 16 [100 Year Flood Plain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Part 1 / Question 20 [Remediation Site]	No