



GENESEE COUNTY PLANNING BOARD REFERRALS NOTICE OF FINAL ACTION

GCDP Referral ID

T-06-ALA-08-24

Review Date

8/8/2024

Municipality
Board Name
Applicant's Name
Referral Type
Variance(s)
Description:

ALABAMA, T.

PLANNING BOARD

Sweet Haven Farms/The Broadway Group, LLC

Site Plan Review

Site Plan Review for an Approx. 10,566 sq. ft. new commercial retail building (Dollar General).

Location
Zoning District

7174 Alleghany Rd. (NYS Rt. 77), Alabama

Commercial (C) District

PLANNING BOARD RECOMMENDS:

APPROVAL WITH MODIFICATION(S)

EXPLANATION:

The required modifications are as follows: 1) The applicant provides documentation from the NYS Department of Environmental Conservation (DEC) as to the project's impacts on threatened and endangered species; 2) The applicant provide a pedestrian connection to Sumner Rd.; and 3) The applicant merge the remaining land with the parcels immediately north to avoid creating an additional nonconforming lot with no road frontage. With these required modifications, the proposed development should pose no significant county-wide or intercommunity impact.

Director

August 8, 2024

Date

If the County Planning Board disapproved the proposal, or recommends modifications, the referring agency shall NOT act contrary to the recommendations except by a vote of a majority plus one of all the members and after the adoption of a resolution setting forth the reasons for such contrary action. Within 30 days after the final action the referring agency shall file a report of final action with the County Planning Board. An action taken form is provided for this purpose and may be obtained from the Genesee County Planning Department.

SEND OR DELIVER TO:

GENESEE COUNTY DEPARTMENT OF PLANNING
3837 West Main Street Road
Batavia, NY 14020-9404
Phone: (585) 815-7901

DEPARTMENT USE ONLY:
GCDP Referral # T-06-ALA-08-24



*** GENESEE COUNTY *
PLANNING BOARD REFERRAL**

RECEIVED
Genesee County
Dept. of Planning
7/30/2024

Required According to:
GENERAL MUNICIPAL LAW ARTICLE 12B, SECTION 239 L, M, N
(Please answer ALL questions as fully as possible)

1. REFERRING BOARD(S) INFORMATION

Board(s) Town of Alabama Planning Board
Address 2218 Judge Road
City, State, Zip Oakfield, NY 14125
Phone (585) 948 - 9341 Ext. 2

2. APPLICANT INFORMATION

Name Sweet Haven Farms/Broadway Group
Address 216 Westside Squard
City, State, Zip Huntsville, AL 35801
Phone (256) 929 - 5874 Ext. _____ Email _____

MUNICIPALITY: City Town Village of Alabama

3. TYPE OF REFERRAL: (Check all applicable items)

- | | | |
|--|--|--------------------------------------|
| <input type="checkbox"/> Area Variance | <input type="checkbox"/> Zoning Map Change | Subdivision Proposal |
| <input type="checkbox"/> Use Variance | <input type="checkbox"/> Zoning Text Amendments | <input type="checkbox"/> Preliminary |
| <input type="checkbox"/> Special Use Permit | <input type="checkbox"/> Comprehensive Plan/Update | <input type="checkbox"/> Final |
| <input checked="" type="checkbox"/> Site Plan Review | <input type="checkbox"/> Other: _____ | |

4. LOCATION OF THE REAL PROPERTY PERTAINING TO THIS REFERRAL:

A. Full Address 7174 Alleghany Road, Basom, NY 14013
B. Nearest intersecting road Sumner Rd.
C. Tax Map Parcel Number 14.-1-32.2
D. Total area of the property 3.70 acres Area of property to be disturbed 2.19 acres
E. Present zoning district(s) Commercial

5. REFERRAL CASE INFORMATION:

A. Has this referral been previously reviewed by the Genesee County Planning Board?
 NO YES If yes, give date and action taken _____
B. Special Use Permit and/or Variances refer to the following section(s) of the present zoning ordinance and/or law

C. Please describe the nature of this request Site Plan Review for retail store

6. ENCLOSURES – Please enclose copy(s) of all appropriate items in regard to this referral

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Local application | <input type="checkbox"/> Zoning text/map amendments | <input type="checkbox"/> New or updated comprehensive plan |
| <input checked="" type="checkbox"/> Site plan | <input type="checkbox"/> Location map or tax maps | <input type="checkbox"/> Photos |
| <input type="checkbox"/> Subdivision plot plans | <input type="checkbox"/> Elevation drawings | <input type="checkbox"/> Other: _____ |
| <input checked="" type="checkbox"/> SEQR forms | <input type="checkbox"/> Agricultural data statement | |

7. CONTACT INFORMATION of the person representing the community in filling out this form (required information)

Name Carl Kumpf Title PB Chairperson Phone (585) 948 - 9341 Ext. 2
Address, City, State, Zip 2218 Judge Road, Oakfield, NY 14125 Email ckumpf21plngbrd@gmail.com

Permit # _____
 Zoning Permit Fee \$ _____
 Building Permit Fee \$ _____
 Fee Total \$ _____

Town of Alabama
 Genesee County, New York

Application For Zoning/Building Permit

Fill out the application with a black or blue ballpoint pen. Return the completed application to the Town Clerk.
 Once the application has been processed the Town Clerk will contact the applicant to inform them it is ready to be picked up and the cost of the permit. Permits must be picked up within two weeks from the date the town clerk notifies the applicant. If applicant fails to pick up the permit within the time stated the application will be returned to the Zoning/Building Officer and Voided. A new application will need to be submitted for the project. Permits Expire one year from the date it is issued.

Sweet Haven Farms, LLC
 Property Owners Name (Print)

[Signature]
 Property Owners Signature

07 / 03 / 24
 Date Submitted

Property Owners Mailing Address

Owners Home Phone: _____ Owners Cell Phone: _____

Address of property where work will be done if different than mailing address 7174 Allegany

Contractors Name Broadway Construction Contractors Phone Number 256.975.3603
 *Contractors MUST provide proof of Workers Compensation Insurance before starting work. ✓

Nature of work: New structure PEMB [] Addition to _____ [] Remodel _____
What is it? - is it Pre Fab or Stick built (What) (Number of rooms)
 [] Other (explain) _____

If a NEW dwelling: No. of Stories 1 No. of Families N/A Garage - Attached N/A Unattached N/A No. Cars 0/A

1. Solid Fuel Burring Units (what type) _____ Must provide MF installation manual

2. Remodeling - _____ Total Sq. Ft. _____

3. Dimensions of addition _____ Ft. BY _____ Ft. Total Sq. Ft. _____

4. Dimensions of New structure 76 Ft By 140 Ft Total Sq Ft 10,640 Sq ft

5. Pools, Spas & Hot tubs _____ Ft BY _____ Ft Depth _____
What is it? If a pool above or in-ground

6 Size and Area of the lot See ALTA Ft. BY _____ Ft. Total Sq. Ft. 2.19 ACRES 95,396.4 Sq ft
Width Depth (Lot size must be feet not Acres)

7 **Zoning District** in which property is located - [] Agricultural / Residential [] Residential Commercial [] Industrial
 WNY Science & Technology Advanced Manufacturing Park - [] TD-1 [] TD-2 [] TD-3

8. Tax Map # 14.1-32.2 9. Estimated cost of project \$ 474,550 Lot creation date per Table 1 Row _____
(This will be provided by ZEO)

DO NOT WRITE BELOW THIS LINE, FOR OFFICIAL USE ONLY

Does the proposed construction or use violate any Town Zoning Law, Ordinance, or Regulation? _____
 If yes give details _____

[] Approved Date | ____/____/____ Permit Expires ____/____/____ [] Denied Date ____/____/____

Reason Denied [] A is Variance required [] A Special Use Permit is required Other S.F. PLAN

[Signature]
 Signature of Zoning Enforcement Officer

TOWN OF ALABAMA

Genesee County New York

SITE PLAN REVIEW PUBLIC HEARING

Note: If the applicant is **NOT** the owner of the property for which the request is being made, a signed letter by the property owner giving authorization to the applicant to apply for the request **MUST** accompany the request, or no action can be taken.

PLEASE PRINT OR TYPE

Applicant's Name The Broadway Group, LLC Phone # 256.929.5874 Date 07/08/24

Applicant's Mailing Address 216 WESTSIDE Square Huntsville, AL 35801

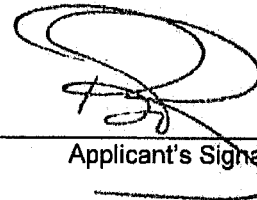
Address of site plan review (if different) 7174 Alleghany Road Basom, NY 14013

Tax map # of property 14-1-32.2 Zoning District of property Commercial

Explain why you are requesting a Site Plan Review:

for the development of a 10,640 sq-ft retail space with
supporting infrastructure; parking, drainage and lighting etc..

*You must include a site plan showing the layout and size of the lot, the location of all buildings and structures located on the property as well as driveways and parking areas for both the resident and the business. **Note:** The Planning Board may require a more detailed site plan.



Applicant's Signature

If a Public Hearing is required the fee for said hearing must be paid before the said hearing will be scheduled.

FOR OFFICIAL USE ONLY

The above request is for a Site Plan Review by the Town of Alabama Planning Board according to Article VIII Section 808-C of the Town of Alabama Zoning Law.

Site Plan has been Approved Disapproved Date ___/___/___ (see attached resolution)

Planning Board Chairman _____

Planning Board Member _____

Planning Board Member _____

Planning Board Member _____

Planning Board Member _____

Application Fee** \$200.00

Received By [Signature]

Date Received 7/8/24

Escrow

****Section 813 – Public hearing and Notice Requirements. Town of Alabama Zoning Law.** When a public hearing is required by the Town of Alabama Zoning Law, the requirements set forth in this section, as well as the applicable requirements of the NYS Town Law, shall be followed. All costs for the public hearing including, but not limited to the legal ad(s), required mail notifications and posting of signs, shall be paid by the applicant.

617.20
Appendix B
Short Environmental Assessment Form

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: 10,566 Square Foot Commercial Building			
Project Location (describe, and attach a location map): 7174 Alleghany Road (State Route 77), Basom, NY			
Brief Description of Proposed Action: The project consists of the installation of a new 10,566 square foot retail building with associated access drive, parking, and utilities. The Project Site access will be a single access point on Alleghany Road (State Route 77).			
Name of Applicant or Sponsor: The Broadway Group		Telephone: 256-533-7287	
		E-Mail: deanna.hych@broadwaygroup.net	
Address: 216 Westside Square			
City/PO: Huntsville		State: AL	Zip Code: 35801
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input checked="" type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: NYS DOT - Highway Work Permit, Genesee County DOH septic system permit, NYSDEC - SWPPP			YES <input checked="" type="checkbox"/>
3.a. Total acreage of the site of the proposed action?		2.50 acres	
b. Total acreage to be physically disturbed?		2.00 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		2.50 acres	
4. Check all land uses that occur on, adjoining and near the proposed action. <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input checked="" type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Parkland			

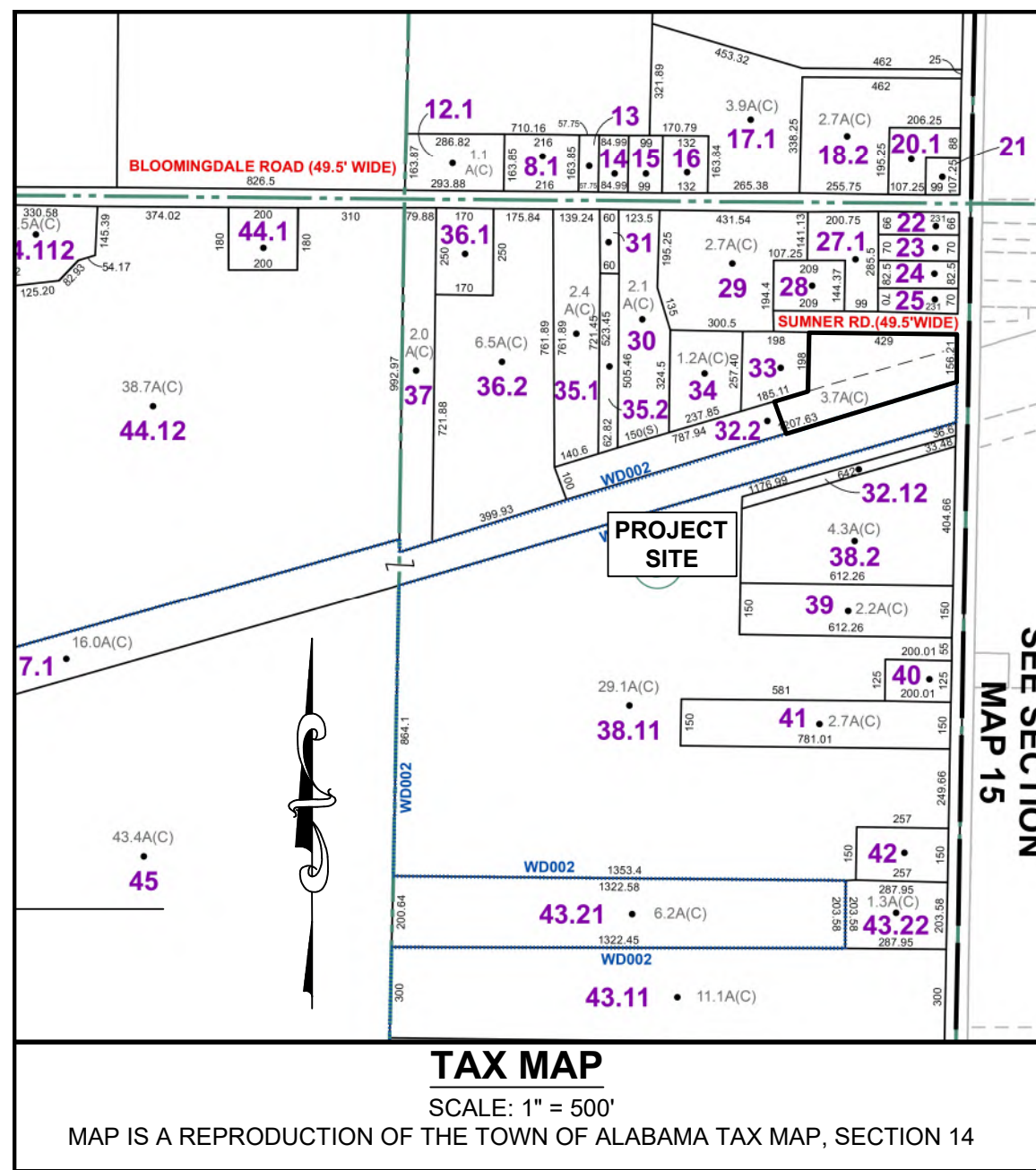
5. Is the proposed action, a. A permitted use under the zoning regulations? b. Consistent with the adopted comprehensive plan?	<table border="1"> <tr><td>NO</td><td>YES</td><td>N/A</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
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7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input type="checkbox"/>								
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8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation service(s) available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: <u>The development of the Project Site will meet the state energy code requirements.</u>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
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10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
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11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: <u>on lot septic system</u>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input type="checkbox"/>								
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12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places? b. Is the proposed action located in an archeological sensitive area?	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
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13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
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14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban																		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? <u>Northern Harrier</u>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
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16. Is the project site located in the 100 year flood plain?	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input type="checkbox"/>								
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17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? <input type="checkbox"/> NO <input type="checkbox"/> YES b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: <input type="checkbox"/> NO <input type="checkbox"/> YES	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <tr><td>NO</td><td>YES</td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </table>	NO	YES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
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18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: <u>Two bioretention basins to provide water quality treatment.</u>	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE		
Applicant/sponsor name: <u>Bob Bedaroway ; The Broadway Group</u> Date: <u>07-01-24</u>		
Signature: _____		

APPLICANT STOP HERE. PLEASE PRINT ENTIRE FORM.

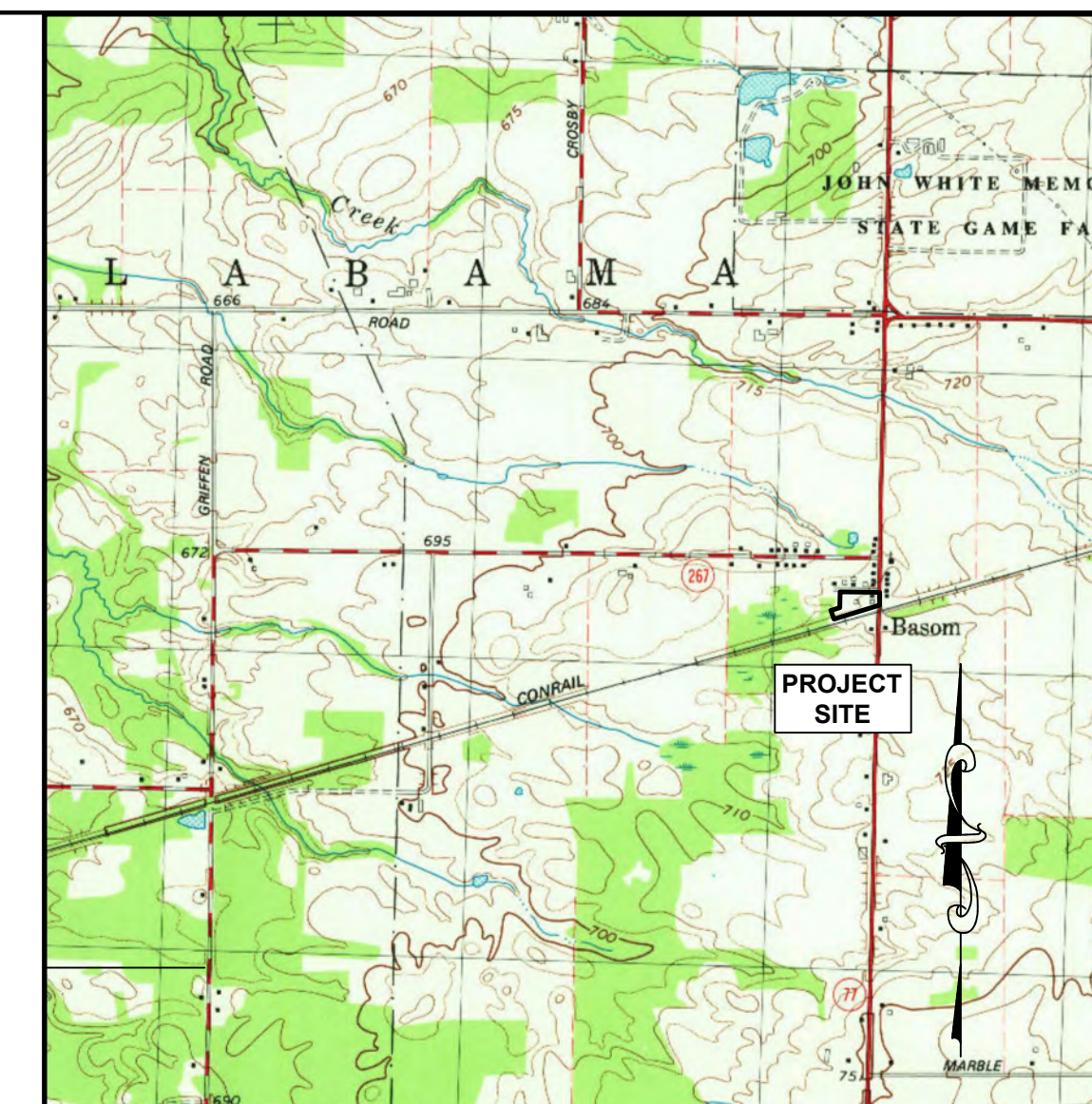
Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>
2. Will the proposed action result in a change in the use or intensity of use of land?	<input type="checkbox"/>	<input type="checkbox"/>
3. Will the proposed action impair the character or quality of the existing community?	<input type="checkbox"/>	<input type="checkbox"/>
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	<input type="checkbox"/>	<input type="checkbox"/>
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will the proposed action impact existing:	<input type="checkbox"/>	<input type="checkbox"/>
a. public / private water supplies?	<input type="checkbox"/>	<input type="checkbox"/>
b. public / private wastewater treatment utilities?	<input type="checkbox"/>	<input type="checkbox"/>
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	<input type="checkbox"/>	<input type="checkbox"/>
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	<input type="checkbox"/>	<input type="checkbox"/>



SITE PLAN DRAWINGS FOR 10,566 SQUARE FOOT RETAIL STORE

LOCATED AT
**7174 ALLEGHANY ROAD (SR77)
TOWN OF ALABAMA
GENESEE COUNTY, NY
TAX PARCEL 14-1-32.2**



NO.	DATE	DESCRIPTION	INT.
1	2023-07-27	INITIAL SUBMISSION	DWY
1	2024-07-03	SUBMIT TO TOWNSHIP	DWY

NOTICE

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DEVELOPER
THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801
(256)533-7287

OWNER
SWEET HAVEN FARMS, LLC

ENGINEER
WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
(607)565-8800



DEVELOPER:

THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801



DESIGN PROFESSIONAL FIRM:

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-8800

PROJECT ID: 21-274.02-DY	DRAWN: JAM
DATE: 2023-07-27	DESIGN: DWY
SCALE: AS NOTED	CHECKED: DWY

PROJECT:
10,566 SF RETAIL BUILDING
LOCATED AT
**7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEE COUNTY, NY**

DRAWING TITLE:
COVER SHEET

PLAN STATUS: DESIGN	SHEET NUMBER: C-100
-------------------------------	-------------------------------

PROJECT NARRATIVE

THE PROPOSED PROJECT INCLUDES THE INSTALLATION OF A 10,566 SQUARE FOOT RETAIL BUILDING AT 7174 ALLEGHANY ROAD (SR77) IN THE TOWN OF ALABAMA, NY. THE PROJECT SITE IS CURRENTLY VACANT. THE EXISTING ON-SITE BUILDING AND PARKING LOT WILL BE DEMOLISHED TO ALLOW FOR THE INSTALLATION OF THE PROPOSED RETAIL BUILDING AND PARKING. THE SITE IS ZONED COMMERCIAL (C). A RETAIL BUILDING IS A PERMITTED USE IN THIS ZONE.

ELECTRIC, GAS, AND MUNICIPAL WATER ARE READILY AVAILABLE AT THE PROJECT SITE. SANITARY SEWAGE GENERATED AT THE PROPOSED BUILDING WILL BE DISPOSED THROUGH AN ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS). A FIRE HYDRANT IS LOCATED NORTHEAST OF THE PROJECT SITE.

ACCESS TO THE PROJECT SITE IS ANTICIPATED TO BE THROUGH THE INSTALLATION OF A NEW ACCESS DRIVE. THE PROPOSED ACCESS WILL REQUIRE ALL SITE TRAFFIC TO ENTER AND EXIT THROUGH A SINGLE DRIVEWAY.

BULK ZONING TABLE

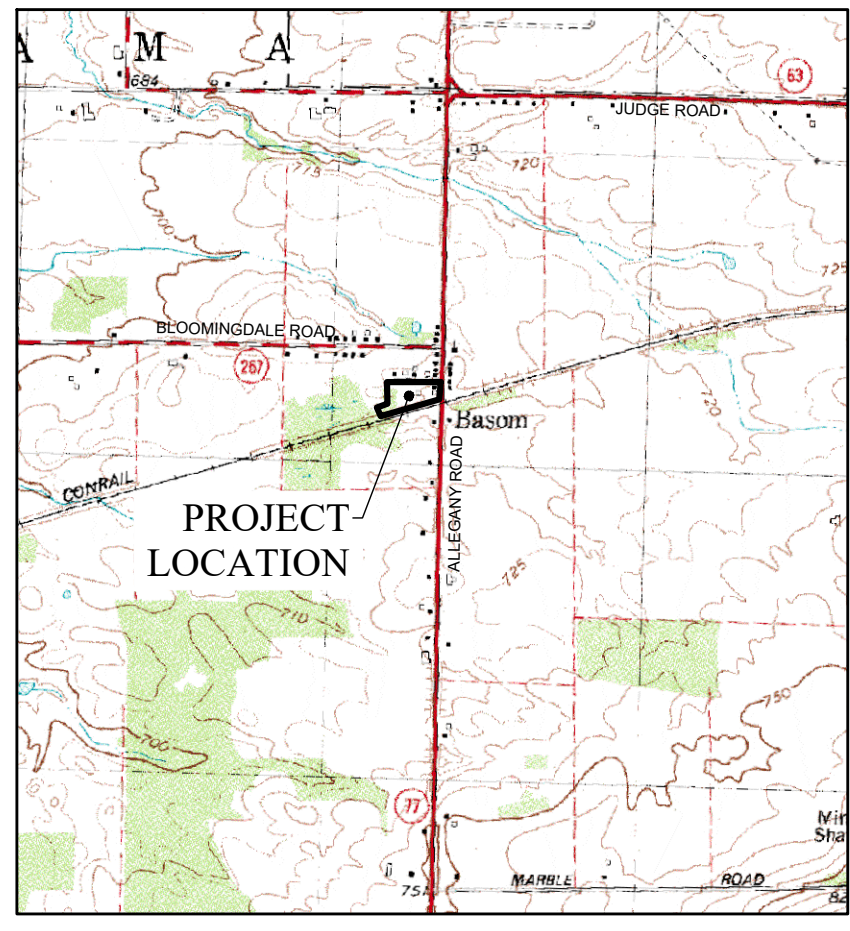
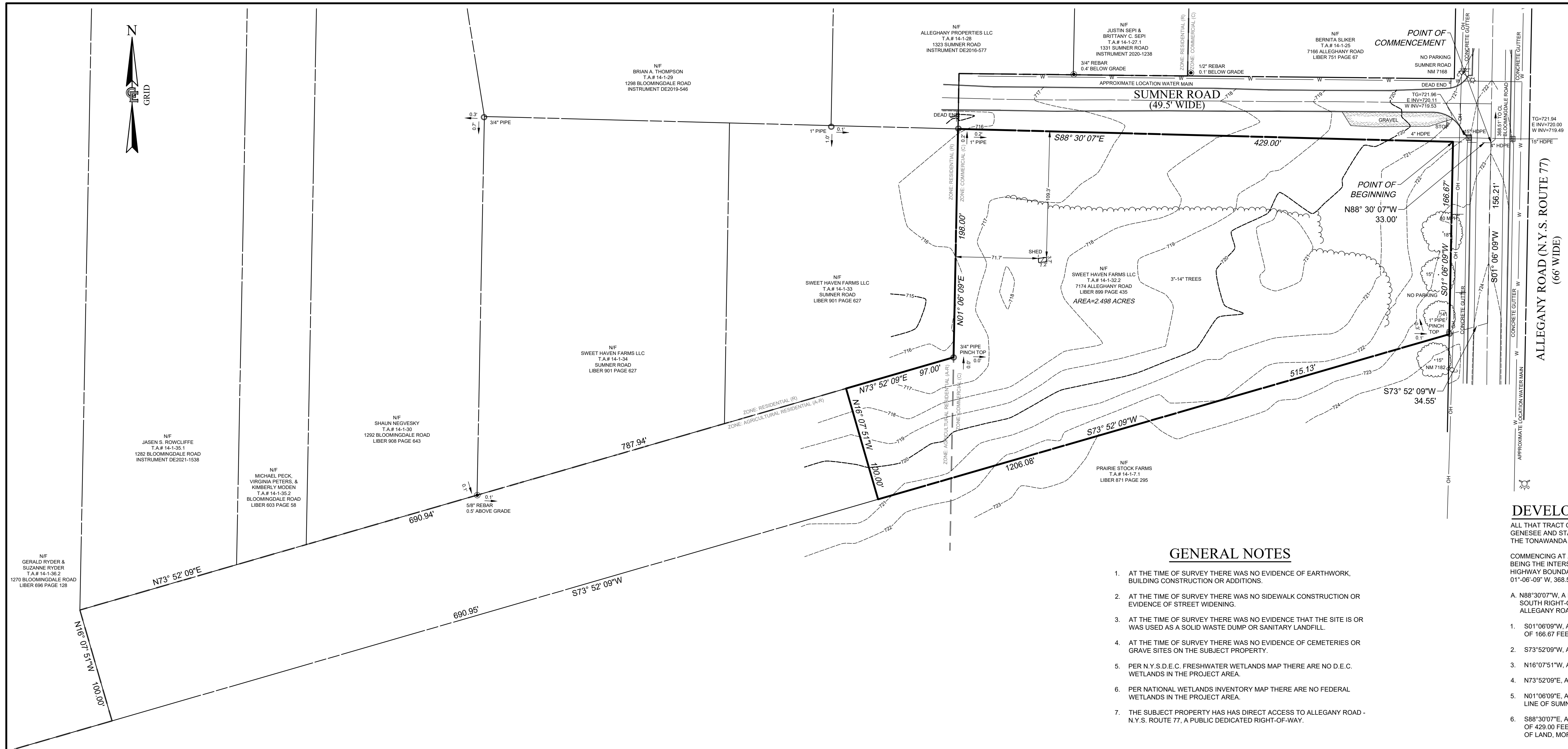
TOWN OF ALABAMA, NY COMMERCIAL (C) DISTRICT:		
ZONING REQUIREMENTS:	REQUIRED	PROPOSED
MINIMUM LOT AREA	40,000 SF	108,813 SF
MINIMUM LOT WIDTH	200 FEET	190.46 FEET
MINIMUM FRONT YARD	75 FEET	75.00 FEET
MINIMUM SIDE YARD	15 FEET	68.43 FEET
MINIMUM REAR YARD	35 FEET	218.11 FEET
MAXIMUM LOT COVERAGE	35%	9.71%
MAXIMUM BUILDING HEIGHT	35 FEET	20.00 FEET

PROJECT LOCATION NOTES

- NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYS DOT) - SEE SHEET C-203 FOR NYS DOT REGION 4 GENERAL NOTES AND HOLIDAY OPERATIONS NOTES.
- PROJECT BOUNDARY - FOR THE METES AND BOUNDS DESCRIPTION OF THE PROJECT SITE PROPERTY, PLEASE SEE C-110.
- EXISTING ROAD NETWORK - ALLEGHANY ROAD IS STATE ROUTE 77 WITH A POSTED SPEED LIMIT OF 40 MILES PER HOUR (MPH).
- FLOODPLAIN - THE PROJECT SITE IS LOCATED IN A "ZONE C - AREA OUTSIDE OF 500 YEAR FLOOD" PER TOWN OF ALABAMA FLOOD INSURANCE RATE MAP.
- FLOODPLAIN - THE PROJECT SITE IS LOCATED IN A "ZONE C - AREA OUTSIDE OF 500 YEAR FLOOD" PER TOWN OF ALABAMA FLOOD INSURANCE RATE MAP 361067C.
- WETLANDS - THE NATIONAL WETLANDS INVENTORY SHOWS NO AREA OF WETLANDS OR STATE REGULATED CHECKZONE ON THE PROJECT SITE. NO VISIBLE EVIDENCE OF WETLANDS WAS FOUND IN THE AREA OF DEVELOPMENT DURING A SITE VISIT BY WMB STAFF.
- WATERWAY - STORMWATER RUNOFF FROM THE PROJECT SITE IS TRIBUTARY TO WHITNEY CREEK WHICH HAS A NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYS DEC) CLASSIFICATION OF "C (BEST USAGE FISHING)". CROOKED CREEK IS NOT CLASSIFIED AS A TROUT OR TROUT SPAWNING WATERWAY.
- AGRICULTURAL DISTRICT - THE GENESEE 2 CERTIFIED AGRICULTURAL DISTRICT IS LOCATED ON THE EAST SIDE OF ALLEGHANY ROAD AND TO THE SOUTH OF THE SITE.
- ENVIRONMENTAL JUSTICE AREAS - THE PROJECT SITE IS NOT LOCATED WITHIN A NYS DEC DESIGNATED ENVIRONMENTAL JUSTICE AREA.
- ACCORDING TO THE NYS DEC MAPPER - THE PROJECT SITE IS LOCATED WITHIN AN AREA LABELED AS A NORTHERN HARRIER HABITAT WHICH IS LABELED AS AN ENDANGERED OR THREATENED SPECIES. CLEARANCE HAS BEEN RECEIVED FROM THE NYS DEC IN A LETTER DATED JULY 13, 2023.

LIST OF DRAWINGS

SHEET TITLE	SHEET NUMBER
COVER SHEET	C-100
SITE SURVEY (BY OTHERS)	C-110
DEMOLITION PLAN	C-111
SITE PLAN	C-120
GRADING AND DRAINAGE PLAN	C-130
UTILITY PLAN	C-140
LANDSCAPING PLAN	C-150
EROSION AND SEDIMENT CONTROL PLAN	C-160
LIGHTING PLAN (BY OTHERS)	C-170
SITE DETAILS	C-200
SITE DETAILS	C-201
MAINTENANCE AND PROTECTION OF TRAFFIC	C-202
MAINTENANCE AND PROTECTION OF TRAFFIC	C-203
STORMWATER SYSTEM DETAILS	C-204
UTILITY DETAILS	C-210
EROSION AND SEDIMENT CONTROL DETAILS	C-215
EROSION AND SEDIMENT CONTROL NOTES	C-216
ALTA SURVEY (BY OTHERS)	



LOCATION SKETCH
NOT TO SCALE

DEVELOPMENT PARCEL DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND, SITUATE IN THE TOWN OF ALABAMA, COUNTY OF GENESSEE AND STATE OF NEW YORK, BEING PART OF LOT 3, TOWNSHIP 13, RANGE 4 OF THE TONAWANDA RESERVATION, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

- COMMENCING AT A POINT IN THE CENTERLINE OF ALLEGANY ROAD (ROUTE 77), SAID POINT BEING THE INTERSECTION OF THE CENTERLINE OF ALLEGANY ROAD AND THE SOUTHERLY HIGHWAY BOUNDARY OF SUMNER ROAD (A.K.A PENDER ROAD), SAID POINT BEING S 01°-06'-09" W, 368.51' FROM THE NORTHEAST CORNER OF LOT 3; THENCE
- A. N88°30'07"W, A DISTANCE OF 33.00 FEET TO A POINT AT THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF SUMNER ROAD AND THE WEST RIGHT-OF-WAY LINE OF ALLEGANY ROAD, SAID POINT BEING THE POINT AND PLACE OF BEGINNING;
 1. S01°06'09"W, ALONG THE WEST RIGHT-OF-WAY LINE OF ALLEGANY ROAD, A DISTANCE OF 166.67 FEET TO A POINT; THENCE
 2. S73°52'09"W, A DISTANCE OF 515.13 FEET TO A POINT; THENCE
 3. N16°07'51"W, A DISTANCE OF 100.00 FEET TO A POINT; THENCE
 4. N73°52'09"E, A DISTANCE OF 97.00 FEET TO A POINT; THENCE
 5. N01°06'09"E, A DISTANCE OF 198.00 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF SUMNER ROAD; THENCE
 6. S88°30'07"E, ALONG THE SOUTH RIGHT-OF-WAY LINE OF SUMNER ROAD, A DISTANCE OF 429.00 FEET TO THE POINT AND PLACE OF BEGINNING. CONTAINING 2.498 ACRES OF LAND, MORE OR LESS.

GENERAL NOTES

1. AT THE TIME OF SURVEY THERE WAS NO EVIDENCE OF EARTHWORK, BUILDING CONSTRUCTION OR ADDITIONS.
2. AT THE TIME OF SURVEY THERE WAS NO SIDEWALK CONSTRUCTION OR EVIDENCE OF STREET WIDENING.
3. AT THE TIME OF SURVEY THERE WAS NO EVIDENCE THAT THE SITE IS OR WAS USED AS A SOLID WASTE DUMP OR SANITARY LANDFILL.
4. AT THE TIME OF SURVEY THERE WAS NO EVIDENCE OF CEMETERIES OR GRAVE SITES ON THE SUBJECT PROPERTY.
5. PER N.Y.S.D.E.C. FRESHWATER WETLANDS MAP THERE ARE NO D.E.C. WETLANDS IN THE PROJECT AREA.
6. PER NATIONAL WETLANDS INVENTORY MAP THERE ARE NO FEDERAL WETLANDS IN THE PROJECT AREA.
7. THE SUBJECT PROPERTY HAS DIRECT ACCESS TO ALLEGANY ROAD - N.Y.S. ROUTE 77, A PUBLIC DEDICATED RIGHT-OF-WAY.

SCHEDULE A - PROPERTY DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND, SITUATE IN THE TOWN OF ALABAMA, COUNTY OF GENESSEE AND STATE OF NEW YORK, BEING PART OF LOT 3, TOWNSHIP 13, RANGE 4 OF THE TONAWANDA RESERVATION, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE CENTERLINE OF ALLEGANY ROAD (ROUTE 77), SAID POINT BEING THE INTERSECTION OF THE CENTERLINE OF ALLEGANY ROAD AND THE SOUTHERLY HIGHWAY BOUNDARY OF SUMNER ROAD (A.K.A PENDER ROAD), SAID POINT BEING S 07°-30'-00" W, 368.51' FROM THE NORTHEAST CORNER OF LOT 3;

THENCE N 82°-06'-16" W, ALONG THE SOUTHERLY HIGHWAY BOUNDARY OF SUMNER ROAD, A DISTANCE OF 462.00' TO A POINT, SAID POINT BEING THE NORTHEAST CORNER OF LAND CONVEYED TO WILBUR AND ALBERTA M. O'DELL AT LIBER 579 OF DEEDS, PAGE 321;

THENCE S 07°-30'-00" W, ALONG THE EASTERLY LINE OF O'DELL LANDS, A DISTANCE OF 198.00' TO A POINT ON THE NORTHERLY LINE OF LAND FORMERLY OWNED BY THE NEW YORK, WEST SHORE AND BUFFALO RAILROAD COMPANY, SAID POINT BEING THE SOUTHEAST CORNER OF O'DELL LANDS;

THENCE S 80°-16'-00" W, ALONG THE NORTHERLY LINE OF SAID RAILROAD LANDS, A DISTANCE OF 787.94' TO A POINT, SAID POINT BEING THE SOUTHWEST CORNER OF LAND CONVEYED TO BONNIE C. ROWCLIFFE AT LIBER 853 OF DEEDS, PAGE 539;

THENCE S 09°-44'-00" E, A DISTANCE OF 100.00' TO A POINT;

THENCE N 80°-16'-00" E, A DISTANCE OF 1240.63' TO A POINT IN THE CENTERLINE OF ALLEGANY ROAD;

THENCE N 07°-30'-00" E, ALONG THE CENTERLINE OF ALLEGANY ROAD, A DISTANCE OF 156.21' TO THE POINT OF BEGINNING, CONTAINING 4.207± ACRES.

SCHEDULE B - EXCEPTIONS

5. RIGHTS OF THE PUBLIC IN AND TO ANY PORTION OF THE PREMISES LOCATED WITHIN THE BOUNDS OF ALLEGANY ROAD.

REFERENCES

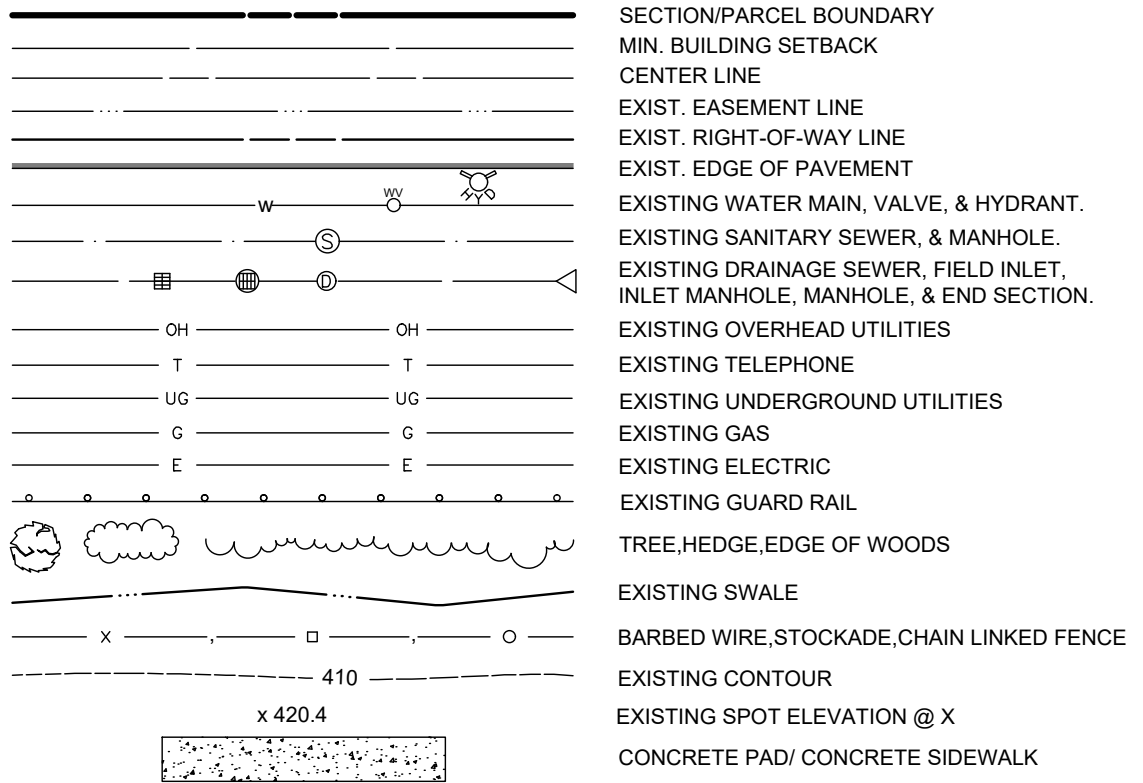
1. THE DEEDS AS SHOWN ON FILE AT THE GENESSEE COUNTY CLERK'S OFFICE.
2. TITLE REPORT PREPARED BY FRONTIER ABSTRACT, HAVING COMMITMENT NO. 5162218, DATED 1/16/2022, LAST REVISED 12/5/2022.

UTILITY INFORMATION

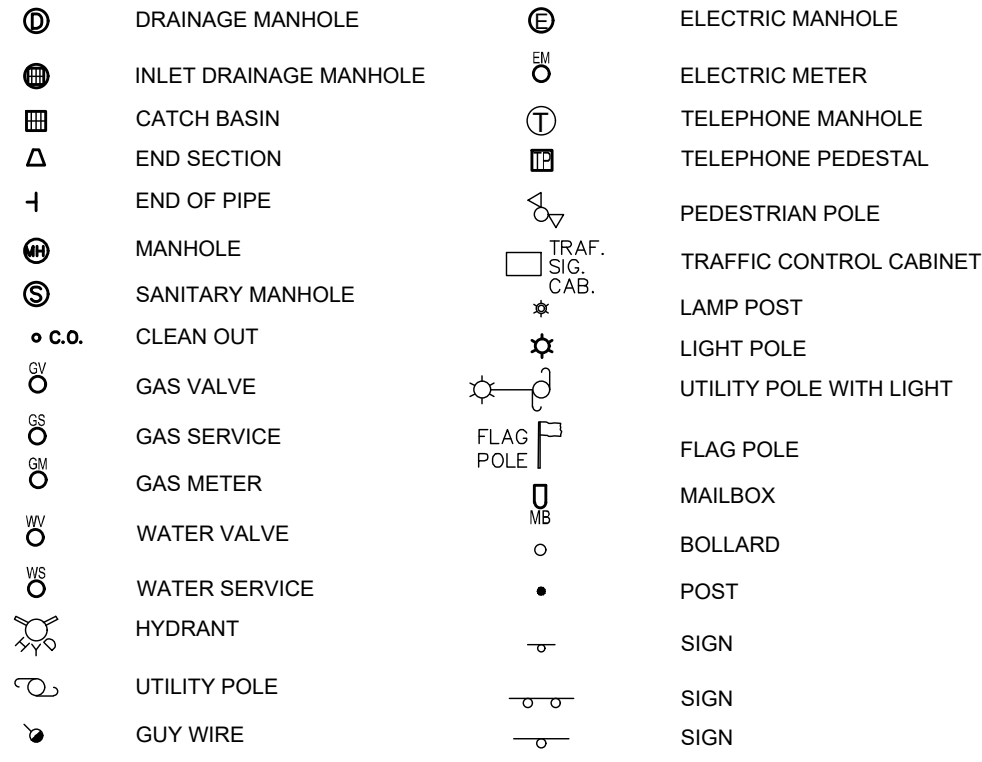
UTILITY INFORMATION PER UFPO DESIGN TICKET # 12132-000-754-00 DATED DECEMBER 13, 2022

1. EMPIRE ACCESS	607-522-4276	NO RESPONSE
2. NATIONAL FUEL GAS / BATAVIA - NFG01	716-857-7431	NO RESPONSE
3. NATIONAL GRID / WEST/ ELECTRIC	315-428-6319	NO CONFLICT
4. TOWN OF BATAVIA	585-343-1729 x220	NO RESPONSE
5. VERIZON / BUFFALO	315-937-2515	NO RESPONSE

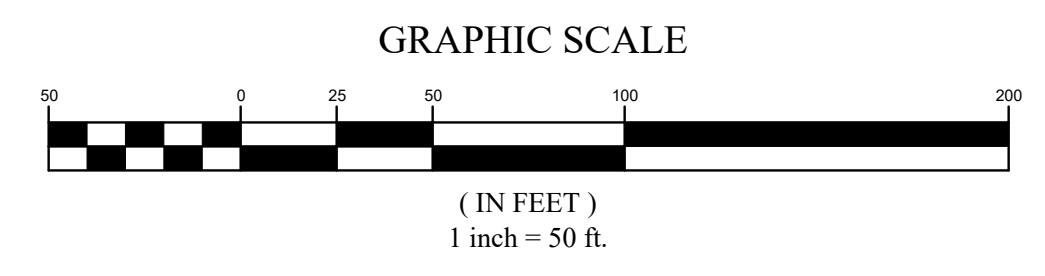
LINE LEGEND



SYMBOL LEGEND



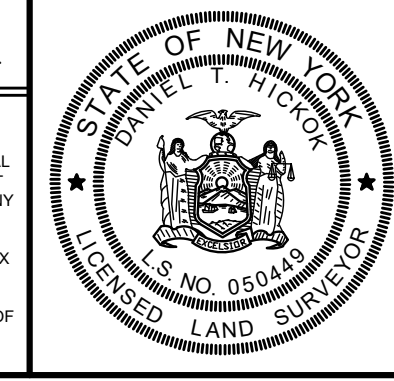
FLOOD NOTE:
By graphic plotting only, this property is in Zone X of the Flood Insurance Rate Map, Community Panel No. 361067 C, Town of Alabama, which bears an effective date of November 18, 1983. No field surveying was performed to determine this zone and an elevation certificate may be needed to verify this determination or apply for a variance from the Federal Emergency Management Agency.



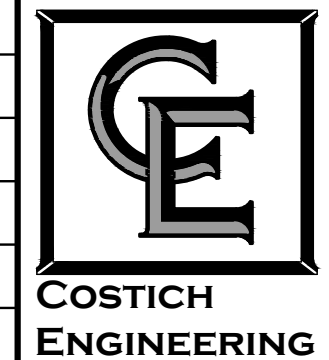
NO.	DATE	REVISION	BY	CHKD.	APVLS.

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COSTICH ENGINEERING, D.P.C.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR, ARCHITECT OR LANDSCAPE ARCHITECT, TO ALTER ANY ITEM ON THIS DOCUMENT IN ANY WAY. ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION, TO THE DOCUMENT.



PROJECT MANAGER	D.T.H.
DRAWN BY	G.M.S.
BOUNDARY	G.M.S.
TOPOBASE	G.L.R.
DATE	1/10/2023
SCALE	1"=50'

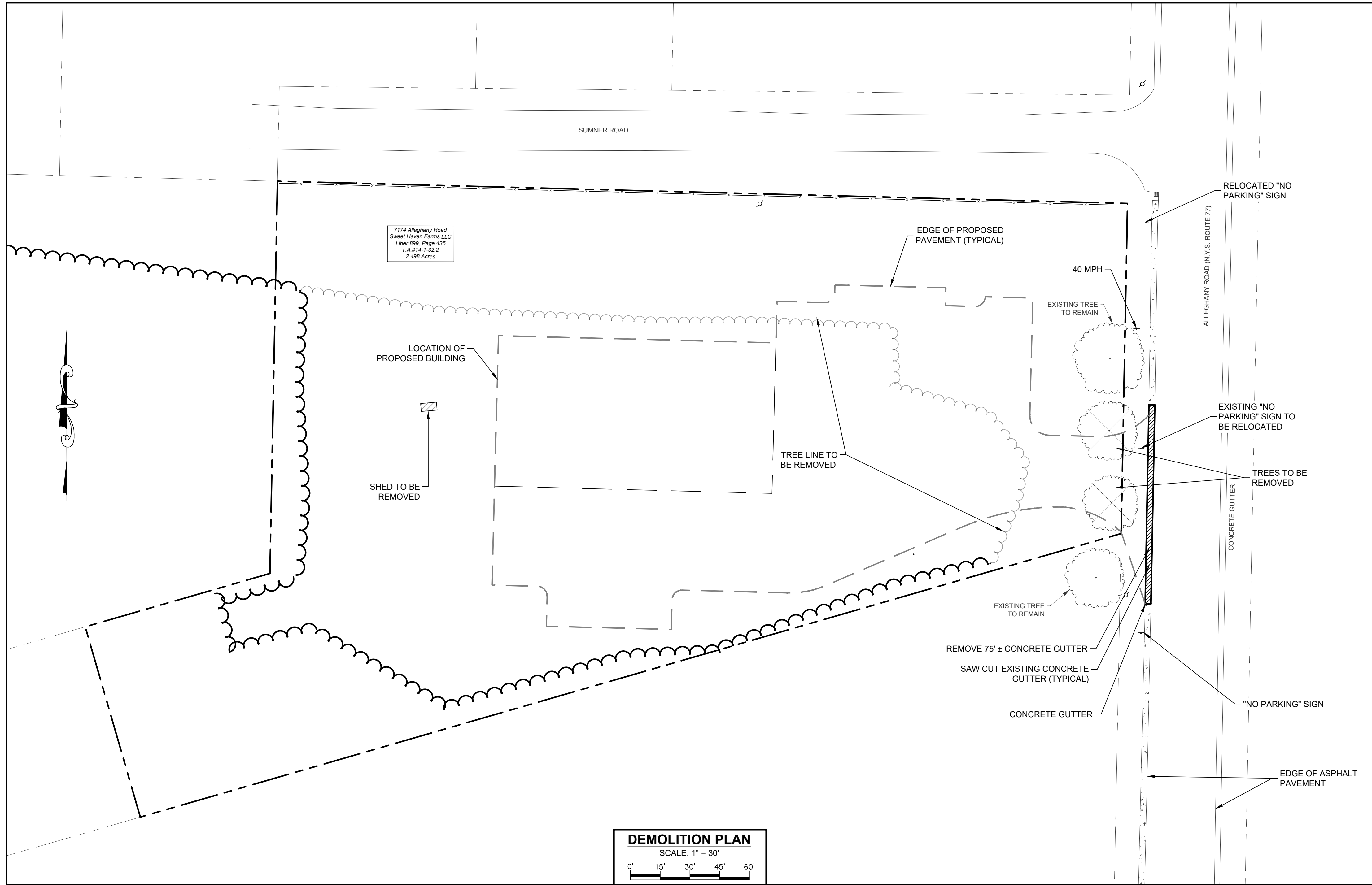


- CIVIL ENGINEERING
 - LAND SURVEYING
 - LANDSCAPE ARCHITECTURE
- 217 LAKE AVENUE
ROCHESTER, NY 14608
(585) 458-3020

TITLE OF PROJECT	DOLLAR GENERAL STORE 7174 ALLEGANY ROAD
TITLE OF DRAWING	ALTA/NSPS LAND TITLE SURVEY
LOCATION OF PROJECT	TAX PARCEL NO. 14-1-32.2 TOWN LOT 3, TOWNSHIP 13, RANGE 4, TONAWANDA RESERVATION TOWN OF ALABAMA, COUNTY OF GENESSEE, STATE OF NEW YORK
CLIENT	THE BROADWAY GROUP 216 WESTSIDE SQUARE HUNTSVILLE, ALABAMA 35801
DWG #	8802
SHEET #	VT100 SHEET 1 OF 1



EXISTING UTILITIES (LOCATION, SIZES AND INVERTS) SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, OR UNDER, THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGES OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY UNDERGROUND UTILITY LOCATION SERVICE AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK.



DEMOLITION PLAN
SCALE: 1" = 30'
0' 15' 30' 45' 60'

LEGEND:

	PROJECT PROPERTY LINE
	ADJOINER PROPERTY LINE
	UTILITY POLE
	EX TREE LINE TO REMAIN
	EX TREE LINE TO BE REMOVED
	PROPOSED AND BUILDING
	PROPOSED EDGE OF PAVEMENT

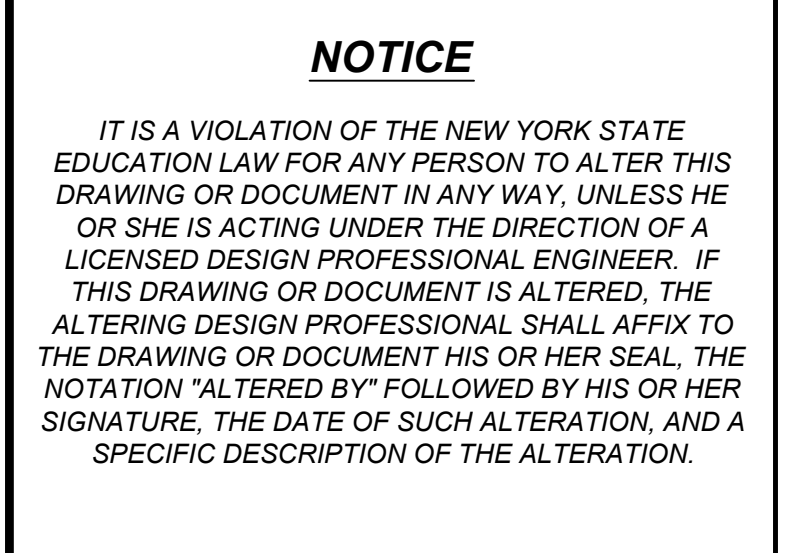
DEMOLITION NOTES:

- REFER TO SHEET C-110 FOR PROJECT SITE BOUNDARY METES AND BOUNDS.
- REFER TO REQUIREMENTS OUTLINED IN THE EROSION & SEDIMENT CONTROL PLANS & NOTES PRIOR TO COMMENCEMENT OF WORK.
- CONFORM TO APPLICABLE CODE FOR DEMOLITION OF GUIDERAIL, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND HAULING, DISPOSAL AND STORAGE OF DEBRIS.
- PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
- MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
- NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE WITH OWNER.
- PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
- LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT. NOTIFY AFFECTED UTILITY COMPANIES 48 HOURS BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED.
- DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER.
- PROTECT EXISTING FEATURES THAT ARE NOT TO BE DEMOLISHED.
- CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.
- MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS OR SIDEWALKS WITHOUT PERMITS. COORDINATE WITH AUTHORITY HAVING JURISDICTION.
- CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION.
- ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CONTOURS.
- FIELD VERIFY EXISTING CONDITIONS AND CORRELATE WITH DEMOLITION REQUIREMENTS TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH SELECTIVE DEMOLITION OPERATIONS.
- CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
- USE WATER MIST, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION, SUCH AS CAUSING ICING, FLOODING, AND TRANSPORTING POLLUTANTS.
- REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION.
- PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE AT A FACILITY APPROVED TO RECEIVE THE DEBRIS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE.
- CONCRETE GUTTER SECTIONS TO BE REMOVED BY SAWCUTTING ALONG ASPHALT SHOULDER AND AT JOINT IN GUTTER.

NO.	DATE	DESCRIPTION	INT.
0	2023-07-27	INITIAL SUBMISSION	DWY
1	2024-07-03	SUBMIT TO TOWNSHIP	DWY

NOTICE

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DEVELOPER:

THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801



DESIGN PROFESSIONAL FIRM:

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID:	21-274.02-DY	DRAWN:	JAM
DATE:	2023-07-27	DESIGN:	DWY
SCALE:	AS NOTED	CHECKED:	DWY

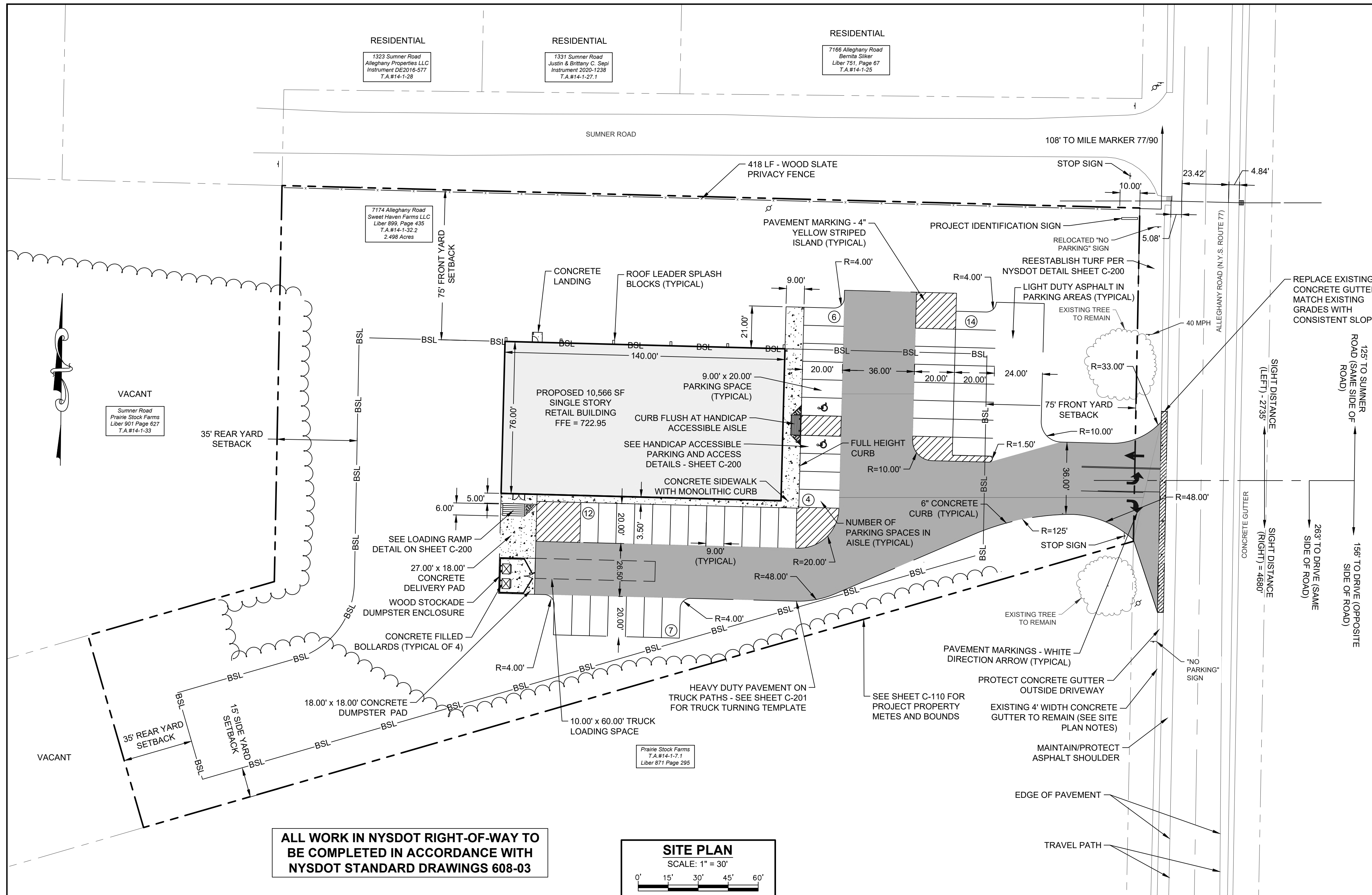
PROJECT:

10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEEE COUNTY, NY

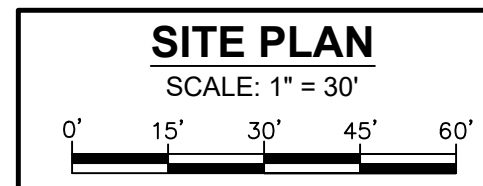
DRAWING TITLE:

DEMOLITION PLAN

PLAN STATUS:	DESIGN	SHEET NUMBER:	C-111
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ALL WORK IN NYS DOT RIGHT-OF-WAY TO BE COMPLETED IN ACCORDANCE WITH NYS DOT STANDARD DRAWINGS 608-03



LEGEND

- PROPERTY LINE
- - - ADJOINER PROPERTY LINE
- - - BSL BUILDING SETBACK LINE
- ~ ~ ~ PROPOSED TREE LINE
- [Solid Grey Box] PROPOSED BUILDING
- [Dotted Box] PROPOSED CONCRETE
- [Hatched Box] PROPOSED PARKING AISLE (NO PARKING)
- [Handicap Symbol] HANDICAP PARKING SYMBOL
- x - x - PROPOSED FENCE LINE

SITE PLAN NOTES:

1. SEE SHEET C-100 FOR ZONING AND SITE ENVIRONMENTAL CONDITIONS.
2. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
3. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES.
4. ALL CONCRETE GUTTER INSTALLED TO BE CONVENTIONALLY FORMED OR MACHINE FORMED IN ACCORDANCE WITH NYS DOT ITEM 624.01. ALL CONCRETE SAW CUT LINES SHALL BE IN ACCORDANCE WITH NYS DOT ITEM 627.50140008.
5. ALL ARCHITECTURE IS SUBJECT TO PLANNING BOARD REVIEW.
6. NOTIFY THE ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
7. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW AND APPROVAL FROM THE ENGINEER.
8. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR PROPERLY AND SAFELY MAINTAINING AREA BETWEEN THE PROJECT SITE AND ALL ADJOINING PROPERTIES.
10. NO WORK, STORAGE, OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
11. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CULVERTS, OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOBE), MAILBOXES, SIGN POSTS, ETC. SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE. SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE. REMOVE LAWN AND REPLACE TO MINIMUM LIMIT OF EXCAVATION.
12. THE FOLLOWING EQUIPMENT IS REQUIRED TO BE ON SITE ON A DAILY BASIS AND FULLY OPERATIONAL:
 - A. VIBRATORY TRENCH ROLLER - PRIMARY COMPACTION EQUIPMENT.
 - B. JUMPING JACK COMPACTOR - SECONDARY COMPACTION EQUIPMENT FOR USE IN TIGHT AREAS, WHERE THE VIBRATORY TRENCH ROLLER CANNOT BE USED.
 IF ANY OF THE EQUIPMENT LISTED ABOVE IS NOT OPERATIONAL, NO EXCAVATING SHALL BE PERFORMED UNTIL ALL EQUIPMENT IS FUNCTIONING PROPERLY.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS, GUIDE RAILS, GUIDE POSTS, CULVERT PIPES, MAILBOXES, HEADWALLS, ETC. WHICH MUST BE REMOVED FOR CONSTRUCTION. CONTRACTOR SHALL REINSTALL ANY REMOVED ITEMS ON A DAILY BASIS. ANY ITEMS DAMAGED BY REMOVAL OR REINSTALLATION SHALL BE REPLACED AND REINSTALLED BY THE CONTRACTOR WITH A NEW ITEM.
14. NO TRACK EQUIPMENT IS ALLOWED ON THE STATE AND COUNTY ROADWAYS WITHOUT PLACING MATS, PLYWOOD, TIRES, ETC. TO PROTECT THE ASPHALT LOAD.
15. NO OPEN TRENCHES ARE ALLOWED TO REMAIN OPEN OVERNIGHT. ALL OPEN TRENCHES ARE REQUIRED TO BE BACKFILLED ON A DAILY BASIS.
16. NO ROAD PLATES ARE ALLOWED TO BE USED OVERNIGHT. ROAD PLATES ARE ONLY ALLOWED TO BE USED DURING DAILY OPERATIONS TO MAINTAIN TRAFFIC ON THE ROADWAY.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER COORDINATION WITH HOMEOWNERS AND BUSINESSES TO ENSURE THAT THEY CAN ENTER AND EXIT THEIR DRIVEWAYS DURING THE COURSE OF DAY TO DAY OPERATIONS.
18. NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE COUNTY HIGHWAY DEPARTMENT AND/OR STATE DEPARTMENT OF TRANSPORTATION
19. PROJECT IDENTIFICATION SIGN TO BE SUBMITTED TO TOWN WITH BUILDING PERMIT APPLICATION.

PAVING NOTES:

1. NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED AND IS READY FOR PAVING. SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
2. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST EDITION. CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THESE DRAWINGS.
3. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREEN. PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
4. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAYS' WORK.
5. TACK COAT WHEN SPECIFIED OR CALLED OUT ON THE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH THE FOLLOWING:
 - A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702 ASPHALT EMULSION FOR TACK COAT OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST EDITION, SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407 - TACK COAT AND SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
 - B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS, OR HAND BROOM.
 - C. APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES AND SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
 - D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.
6. AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL, OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

LAYOUT NOTES:

1. BUILDING DIMENSIONS TO BE TAKEN FROM THE ARCHITECTURAL BUILDING PLANS.
2. NOTIFY THE ENGINEER OF ANY DEVIATION FROM CONDITIONS SHOWN ON THESE PLANS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED UP AS BUILTS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

STRIPING:

1. STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
2. COLOR: DRIVE LANE DIVIDERS - WHITE OR AOBÉ
NO PARKING ZONE WARNINGS - WHITE OR AOBÉ
PARKING DIVIDERS - WHITE OR AOBÉ
WALKING LINES - WHITE OR AOBÉ
HANDICAP PARKING LINES AND SYMBOL - BLUE
3. REFLECTORIZED PAVEMENT MARKING PAINTS SHALL BE SELECTED FROM THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION APPROVED LIST OF WHITE AND YELLOW REFLECTORIZED PAVEMENT MARKING PAINTS. IMMEDIATELY FOLLOWING PAINT APPLICATION, REFLECTIVE GLASS BEADS SHALL BE UNIFORMLY APPLIED AT A RATE OF 5 POUNDS PER GALLON OF PAINT.

PARKING REQUIRED BY ZONING:

1 SPACE PER 200 SF BUILDING AREA = 10,566 SF/200 SF = 53 SPACES
 1 SPACE PER EMPLOYEE = 2
 TOTAL SPACES REQUIRED = 55
 SPACES PROVIDED: 43

HANDICAP ACCESSIBLE SPACES REQUIRED BY ADA:
 1 SPACE PER 25 TOTAL SPACES = 43/25 = 2
 HANDICAP ACCESSIBLE SPACES PROVIDED = 2

NO.	DATE	DESCRIPTION	INT.
1	2023-07-27	INITIAL SUBMISSION	DWY

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

DEVELOPER:

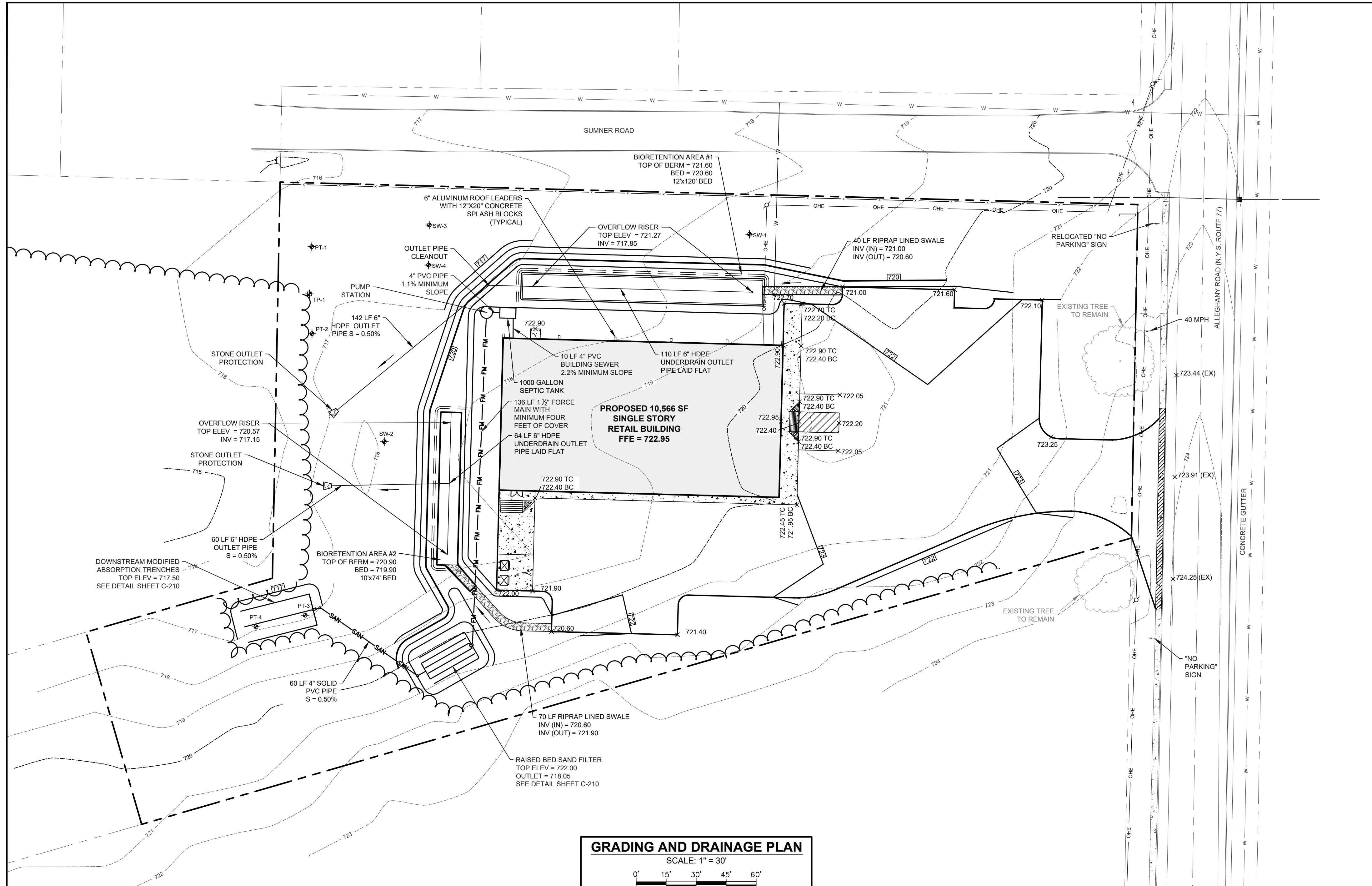
THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801

SEAL OF PROFESSIONAL:

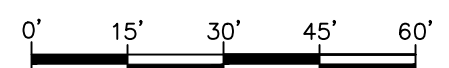
DESIGN PROFESSIONAL FIRM:

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID:	21-274.02-DY	DRAWN:	JAM
DATE:	2023-07-27	DESIGN:	DWY
SCALE:	AS NOTED	CHECKED:	DWY
PROJECT:	10,566 SF RETAIL BUILDING LOCATED AT 7174 ALLEGHANY ROAD TOWN OF ALABAMA GENESEEE COUNTY, NY		
DRAWING TITLE:	SITE PLAN		
PLAN STATUS:	DESIGN	SHEET NUMBER:	C-120



GRADING AND DRAINAGE PLAN
SCALE: 1" = 30'



LEGEND

- PROPERTY LINE
- ADJOINER PROPERTY LINE
- PROPOSED TREE LINE
- █ PROPOSED BUILDING
- █ EXISTING CONCRETE
- █ PROPOSED CONCRETE
- PROPOSED FENCE LINE
- × PROPOSED SPOT ELEVATION
- ⊕ TP-1 SEPTIC TEST PIT
- ⊕ PT-1 SEPTIC PERCOLATION TEST
- ⊕ SW-1 STORM INFILTRATION TEST
- STORM SYSTEM
- FM PROPOSED SANITARY SEWER FORCE MAIN
- SAN PROPOSED SANITARY SEWER GRAVITY MAIN

GRADING NOTES:

1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
2. CONTRACTOR SHALL REVIEW AND COMPLY WITH THE GEOTECHNICAL REPORT AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT SITE.
3. GRAVEL AREAS TO BE CONVERTED TO A LAWN SURFACE SHALL RECEIVE "DEEP RIPPING AND DECOMPACTION" TREATMENT PER THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION GUIDANCE PROVIDED IN THE SWPPP.
4. IF ROCK IS ENCOUNTERED DURING CONSTRUCTION & REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
5. ALL BLASTING OPERATIONS WILL ADHERE TO NEW YORK STATE AND LOCAL AUTHORITY ORDINANCES GOVERNING THE USE OF EXPLOSIVES. THE STATE REGULATIONS ARE CONTAINED IN 12 NYCRR 39 AND INDUSTRIAL CODE RULE 753 STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED AND REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN.
6. BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND REPLANTED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.
8. REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.
9. IF PREVIOUSLY UNKNOWN CULTURAL, ARCHAEOLOGICAL, OR HISTORIC REMAINS OR ARTIFACTS ARE DISCOVERED IN THE COURSE OF CONSTRUCTION OF THIS PROJECT, THE PROJECT SPONSORS SHALL SUSPEND CONSTRUCTION OPERATIONS IN THE PERTINENT AREA AND SHALL NOTIFY THE PROJECT ENGINEER. CONSTRUCTION IN THAT AREA SHALL RESUME ONLY AFTER COMPLETION OF FEDERAL, TRIBAL, AND STATE COORDINATION TO DETERMINE WHETHER PROTECTION OR RECOVERY OF THE REMAINS IS WARRANTED, OR WHETHER THE SITE IS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES.

ROCK BLASTING NOTES:

- BLASTING OF BEDROCK IS NOT ANTICIPATED AT THIS SITE IN ORDER TO COMPLETE THE PROPOSED DEVELOPMENT. HOWEVER, IF BLASTING OF BEDROCK BECOMES NECESSARY, CONTRACTOR SHALL COMPLY WITH THE FOLLOWING:
1. ALL RECOMMENDED SAFETY REQUIREMENTS AND STANDARDS REFERENCED AND ANY LOCAL RESTRICTIONS SHALL BE APPLIED AS REQUIRED FOR SAFETY, SECURITY, AND SPECIFICALLY RELATED DETAILS FOR BLASTING PROCEDURES. AT ALL TIMES, FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE FOLLOWED CONCERNING THE TRANSPORTATION AND STORAGE OF EXPLOSIVES.
 2. A MINIMUM OF FOUR (4) DAYS PRIOR TO COMMENCEMENT OF THE INITIAL BLASTING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AS APPROPRIATE: POLICE AGENCIES, GAS AND ELECTRIC SERVICE COMPANIES, TELEPHONE AND CABLE OPERATING COMPANIES, TOWN WATER AND SEWER DEPARTMENTS, NYS DOT, AND LOCAL FIRE, RESCUE, AND AMBULANCE SERVICES.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM THE USE OF EXPLOSIVES. EXPLOSIVES SHALL BE STORED IN A SECURE MANNER IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES.
 4. THE CONTRACTOR SHALL NOTIFY EACH PROPERTY AND UTILITY OWNER HAVING A BUILDING, STRUCTURE, OR OTHER INSTALLATION ABOVE OR BELOW GROUND IN PROXIMITY TO THE SITE OF THE WORK OF HIS INTENTION TO USE EXPLOSIVES. NOTICE SHALL BE GIVEN SUFFICIENTLY IN ADVANCE TO ENABLE THE OWNERS TO TAKE STEPS TO PROTECT THEIR PROPERTY. NOTICE SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DAMAGE RESULTING FROM HIS BLASTING OPERATIONS.
 5. THE CONTRACTOR SHALL SCHEDULE AND CONDUCT PRE-BLAST SURVEYS WITH PROPERTY OWNERS LOCATED IN THE AREA POTENTIALLY AFFECTED BY AIRBLAST OVERPRESSURE AND GROUND VIBRATION OR AS REQUIRED. THE CONTRACTOR SHALL IMPLEMENT ENGINEERING MEASURES IN ORDER TO MINIMIZE THE POTENTIAL IMPACTS OF DUST, NOISE AND GROUND VIBRATION. BLAST VIBRATION CONTROL WILL BE ACHIEVED BY LIMITING THE CHARGE PER DELAY SO THAT THE PEAK PARTICLE VELOCITY REMAINS BELOW THE SPECIFIED LEVELS.
 6. AN APPROPRIATELY QUALIFIED, LICENSED BLASTING SPECIALIST, WITH EXPERIENCE SHALL BE ONSITE AND SUPERVISE BLASTING OPERATIONS. AT ALL TIMES, THE BLASTING AREA SHALL BE RESTRICTED TO BLASTING OPERATIONS AND AUTHORIZED PERSONNEL ONLY.
 7. PROTECTIVE MEASURES INCLUDING INSTALLATION OF SIGNAGE, NOTIFICATION OF NEARBY RESIDENTS, TRAFFIC CONTROL AS NECESSARY ALONG NEARBY ROADS, AUDIBLE PRE-BLAST WARNINGS, AND USE OF BLAST MATS SHALL BE IMPLEMENTED. DELIVERY AND TRANSPORT OF EXPLOSIVES FROM THE POWDER MAGAZINES TO THE BLAST AREA WILL BE BY VEHICLES SPECIFICALLY DESIGNED FOR THIS USE BY THE CRITERIA OUTLINED IN THE SAFETY REQUIREMENTS. ONLY AUTHORIZED PERSONS WILL TRANSPORT AND HANDLE THE EXPLOSIVES AS DESIGNATED BY THE ISSUING AUTHORITY OF THOSE LICENSES FOR THIS PURPOSE.
 9. MONITORING OF PEAK PARTICLE VELOCITY (INCHES/SECOND) AND PEAK AIRBLAST OVERPRESSURE (PSI) SHALL BE PERFORMED DURING ALL BLASTS.

NO.	DATE	DESCRIPTION	INT.
0	2023-07-27	INITIAL SUBMISSION	DWY
1	2024-07-03	SUBMIT TO TOWNSHIP	DWY

NO.	DATE	DESCRIPTION	INT.

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DEVELOPER:

THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801

SEAL OF PROFESSIONAL:

DESIGN PROFESSIONAL FIRM:

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID:	21-274.02-DY	DRAWN:	JAM
DATE:	2023-07-27	DESIGN:	DWY
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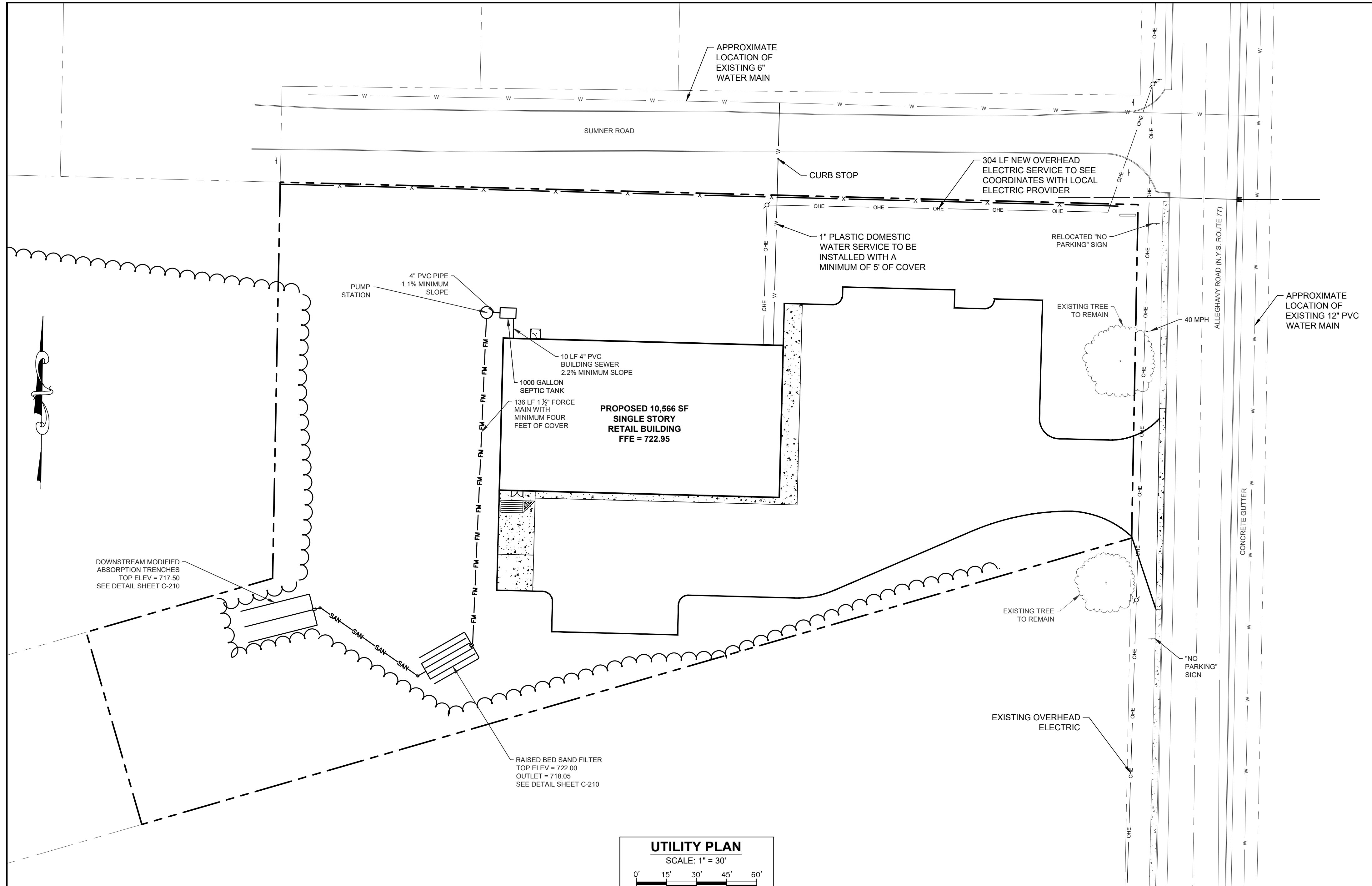
PROJECT:

10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEE COUNTY, NY

DRAWING TITLE:

GRADING AND DRAINAGE PLAN

PLAN STATUS:	DESIGN	SHEET NUMBER:	C-130
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UTILITY PLAN
SCALE: 1" = 30'

UTILITY PLAN NOTES:

- ALL UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION IS TO PROCEED.
- ALL PROPOSED UTILITIES SHALL TERMINATE FIVE (5) FEET FROM ANY PROPOSED BUILDING FACE. CONTRACTOR TO COORDINATE WITH BUILDING PLANS FOR ANY CONNECTIONS.
- THE CONTRACTOR SHALL NOTIFY THE TOWN OF ALABAMA WATER SERVICES AT A MINIMUM OF 48 HOURS PRIOR TO STARTING THE CONNECTION FOR THE NEW WATER SERVICE.
- ALL STORM SEWERS SHALL BE SMOOTH INTERIOR HDPE UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
- EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE FOR THE DURATION OF THE WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
- IF ROCK REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE TOWN OF ALABAMA.
- A MINIMUM OF TEN (10) FEET OF HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
- SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES THAT CROSS THROUGH ANY PAVEMENT AREA. SEE BACKFILL NOTE ON C140.

SEPTIC DESIGN NOTES:

- SEPTIC DESIGN FLOW = 60 GALLONS PER DAY (GPD) BASED ON PREVIOUS DEVELOPMENT EXPERIENCE BY THE DEVELOPER.
- SITE PERCOLATION TESTS COMPLETED BY TERRACON ON MAY 15, 2023. PERCOLATION RATES WERE FOUND TO BE BETWEEN 0 AND 0.25 INCHES PER HOUR. ADDITIONAL PERCOLATION TESTS WERE COMPLETED AT THE SURFACE BY WMB GEOLOGIC & ENGINEERING SERVICES, DPC.
- SITE DEEP TEST COMPLETED BY TERRACON ON MAY 15, 2023. SOILS WERE FOUND TO BE CHANNERY SILT LOAM IN NATURE AND GENERALLY CONSISTENT WITH THE SOIL SURVEY.
- SEPTIC TANK SIZE FOR A 60 GPD SYSTEM = 1,000 GALLONS.
- DUE TO THE POOR SUBSURFACE SOILS TESTING RESULTS, A RAISED BED SAND FILTER HAS BEEN DESIGNED FOR THE SITE WITH A DOWNSTREAM MODIFIED ABSORPTION TRENCHES SYSTEM.
- MAINTAIN TEN FOOT SEPARATION BETWEEN SEPTIC SYSTEM PIPING AND THE BUILDING WATER FEED PIPING.
- MAINTAIN A TEN FOOT SEPARATION BETWEEN THE SEPTIC TANK AND THE BUILDING.

WATER NOTES:

- WATER DEMAND IS ANTICIPATED TO BE 60 GALLONS PER DAY BASED ON PREVIOUS DEVELOPMENT EXPERIENCE BY THE DEVELOPER.
- FIVE FEET OF COVER MUST BE MAINTAINED OVER ALL WATER LINES.
- THE TOWN OF ALABAMA IS TO BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO STARTING THE CONNECTION FOR A NEW WATER SERVICE.
- RETAINING GLANDS ARE REQUIRED ON ALL WATERLINE FITTINGS.

NO.	DATE	DESCRIPTION	INT.
0	2023-07-27	INITIAL SUBMISSION	DWY
1	2024-07-03	SUBMIT TO TOWNSHIP	DWY

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DEVELOPER:

THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801

SEAL OF PROFESSIONAL:

DESIGN PROFESSIONAL FIRM:

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID: **21-274.02-DY** DRAWN: **JAM**

DATE: **2023-07-27** DESIGN: **DWY**

SCALE: **AS NOTED** CHECKED: **DWY**

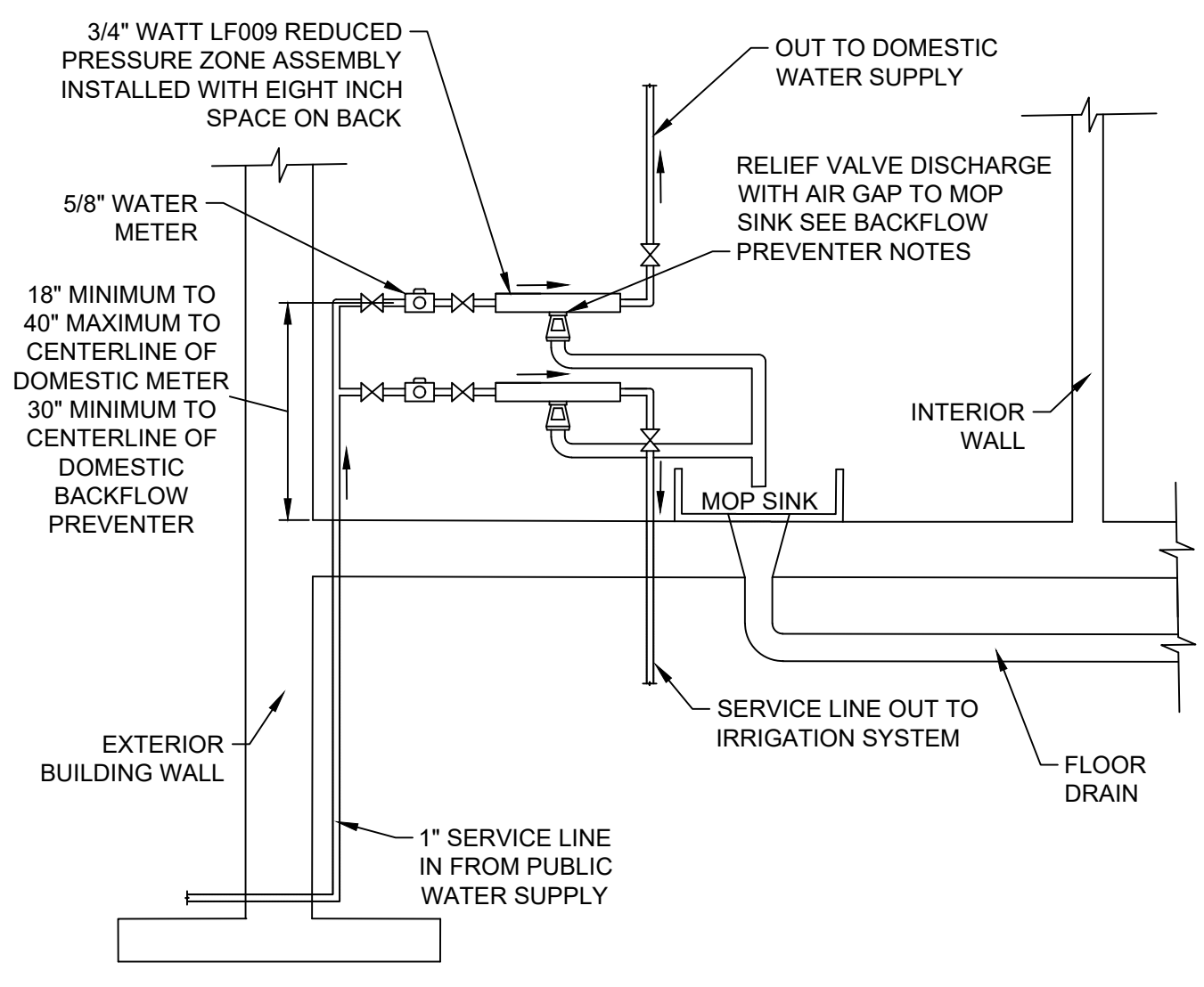
PROJECT: **10,566 SF RETAIL BUILDING**
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESSEE COUNTY, NY

DRAWING TITLE: **UTILITY PLAN**

PLAN STATUS: **DESIGN** SHEET NUMBER: **C-140**

LEGEND

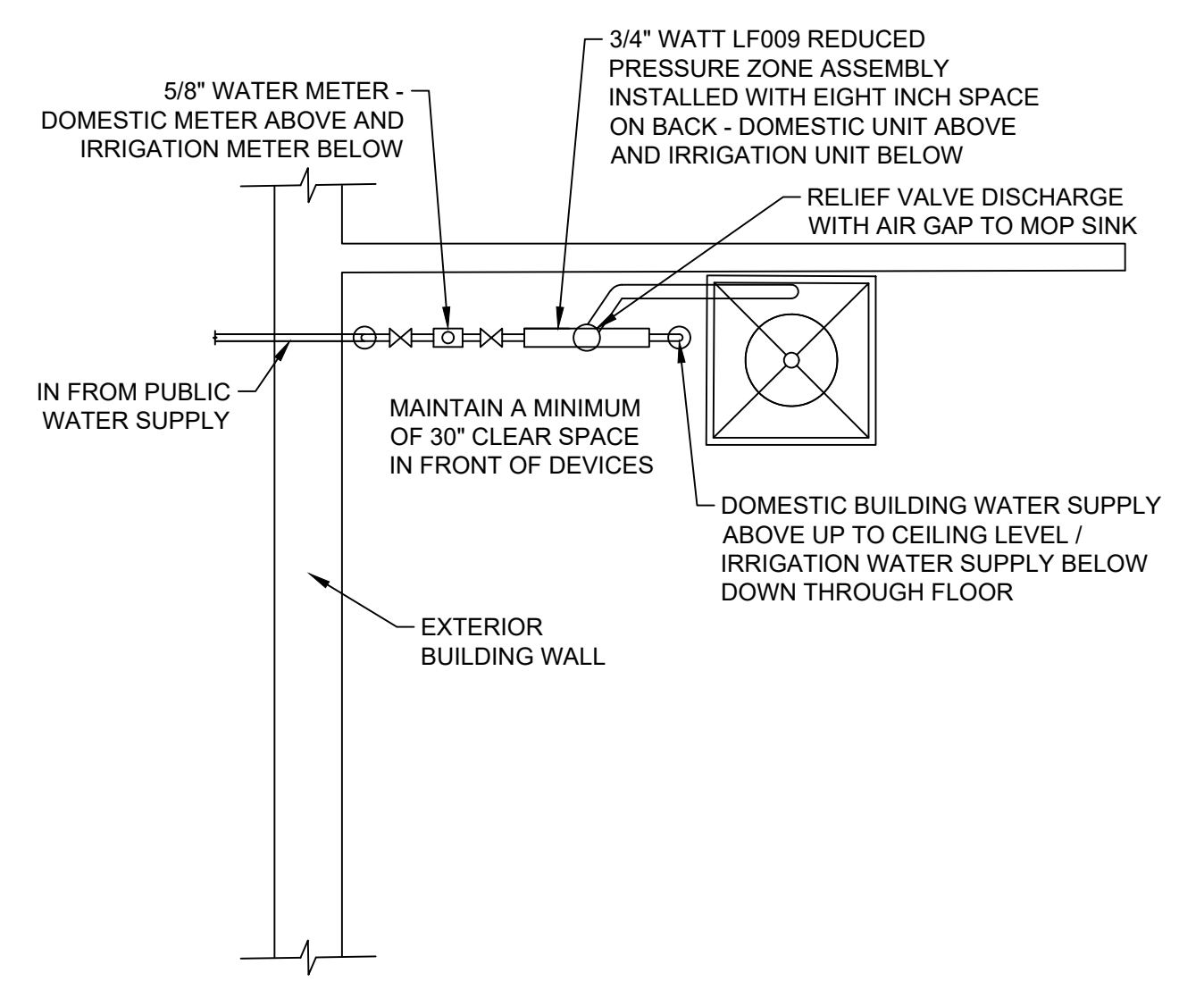
	PROPERTY LINE
	ADJOINER PROPERTY LINE
	PROPOSED TREE LINE
	EXISTING CONCRETE
	PROPOSED CONCRETE
	PROPOSED FENCE LINE
	PROPOSED SANITARY SEWER FORCE MAIN
	PROPOSED SANITARY SEWER GRAVITY MAIN
	PROPOSED WATER SERVICE
	PROPOSED STORM DRAINAGE PIPING
	PROPOSED GAS SERVICE
	PROPOSED OVERHEAD ELECTRIC SERVICE



BACKFLOW PREVENTER ELEVATION
SCALE: 1"=2'

BACKFLOW PREVENTER NOTES

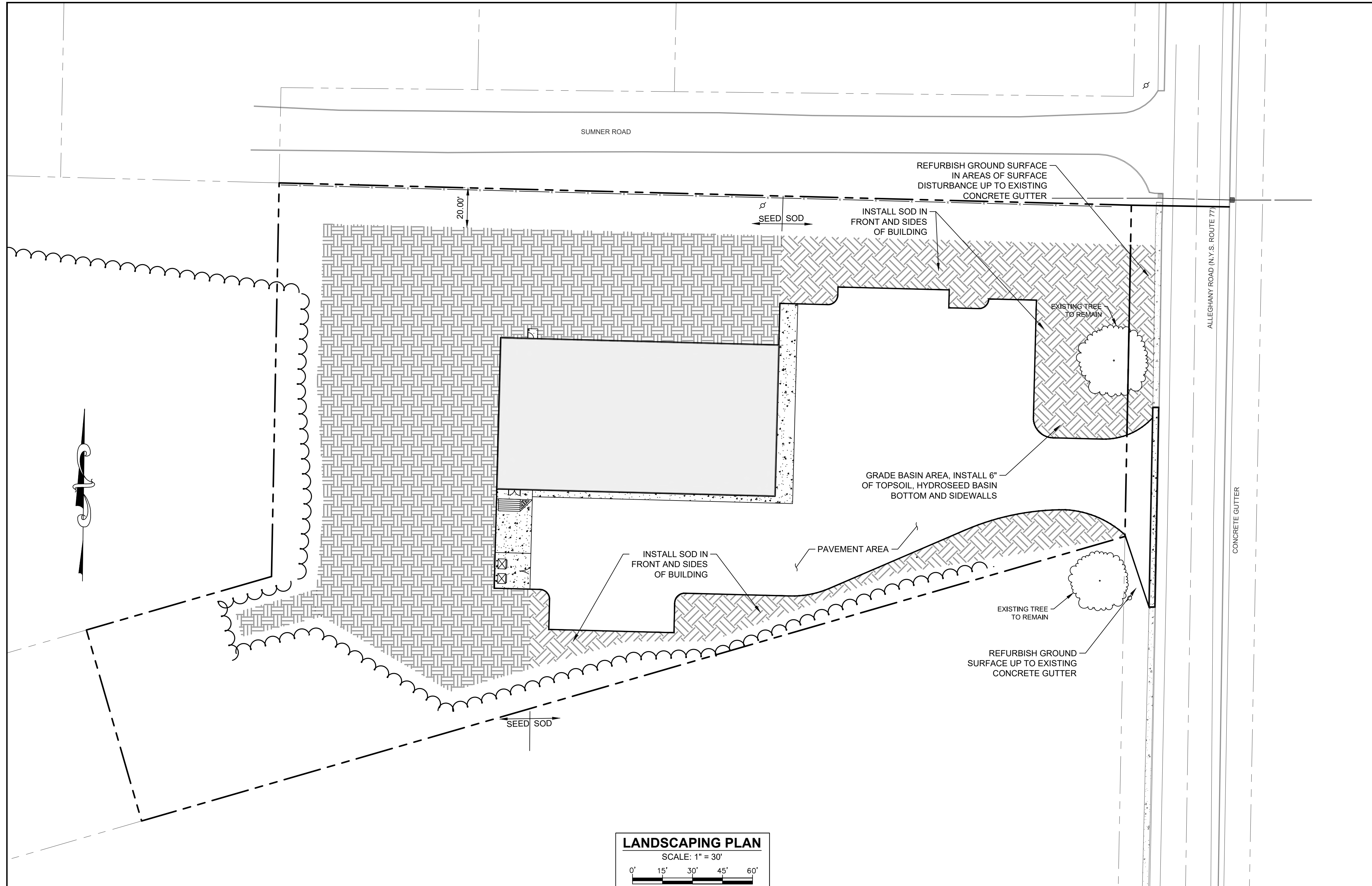
- BACKFLOW PREVENTER SHALL HAVE NO LESS THAN 30 INCHES OF FRONT CLEARANCE FOR DEVICE ACCESS.
- BACKFLOW PREVENTER SHALL HAVE NO LESS THAN 8 INCHES BETWEEN BACK OF DEVICE AND WALL OR NEAREST OBSTRUCTION.
- INSTALLED CENTERLINE OF BACKFLOW PREVENTER SHALL BE NO LESS THAN 30 INCHES NOR MORE THAN 60 INCHES ABOVE FINISHED FLOOR ELEVATION.
- BACKFLOW PREVENTERS SHALL HAVE NO LESS THAN 18 INCHES AND NO MORE THAN 40 INCHES CLEAR BETWEEN BOTTOM OF RELIEF VALVE AND FLOOR TO PREVENT SUBMERSION AND FACILITATE VALVE SERVICING.
- NO LESS THAN 12 INCHES SHALL REMAIN CLEAR ABOVE DEVICES TO FACILITATE VALVE SERVICE AND TESTING.
- ALL MATERIAL BEFORE THE BACKFLOW PREVENTER SHALL BE BRASS, COPPER OR CEMENT LINE DUCTILE IRON AND BE MECHANICALLY JOINED.
- BACKFLOW PREVENTER SHALL BE INSTALLED SO ALL TESTING PORTS WILL BE TOP OF FRONT SIDE OF DEVICE.
- AIR GAP BETWEEN DISCHARGE OF BACKFLOW DEVICE AND MOP SINK TO BE TWICE THE DIAMETER OF THE EFFECTIVE OPENING OF THE RELIEF VALVE AND A MINIMUM OF ONE INCH.
- AIR CAP FITTINGS ARE NOT PERMITTED.
- VICTAULIC FITTINGS SHALL NOT BE USED UPSTREAM OF THE BACKFLOW PREVENTER.



BACKFLOW PREVENTER PLAN
SCALE: 1"=2'

APPROVED BY: _____ GENESSEE COUNTY WATER AUTHORITY

DATE: _____



LANDSCAPING PLAN
SCALE: 1" = 30'

LEGEND

— LOD — LOD —	LIMITS OF EARTH DISTURBANCE
— — —	PROPERTY LINE
- - - - -	ADJOINER PROPERTY LINE
⊖ ⊖ ⊖	PROPOSED TREE LINE
▒ ▒ ▒	EXISTING CONCRETE
▒ ▒ ▒	PROPOSED CONCRETE
▨ ▨ ▨	AREA OF SOD INSTALLATION
▧ ▧ ▧	AREA OF GRASS SEEDING

LANDSCAPING NOTES

GRADING:

- 1) CONTRACTOR TO GRADE ALL AREAS SHADED IN THE PLAN, INCLUDING ROW.
- 2) TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS. PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES DURING CONSTRUCTION.
- 3) TILL SOIL TO A DEPTH OF 4" MINIMUM.
- 4) REMOVE ALL ROCKS LARGER THAN 1" MEASURED IN LARGEST DIRECTION.
- 5) GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.
- 6) ALL GRADED AREAS TO RECEIVE SEED OR SOD, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- 7) REFER TO SHEET C130 FOR MAXIMUM SLOPES.

LAWN SEEDING AND SODDING:

- 1) ALL LAWNS FROM FACE OF THE BUILDING AND ON THE SIDE WHERE THERE IS PARKING OR A STREET ARE REQUIRED TO BE FULLY SODDED. ALL OTHER LANDSCAPE AREAS TO RECEIVE SEED.
- 2) AREAS TO RECEIVE SEED OR SOD SHALL BE CLEAN OF DEBRIS AND FREE OF WEEDS.
- 3) SEED MIX TO BE DROUGHT TOLERANCE FESCUE OR REGIONAL SPECIFIC BLEND. 41 TO 31 OF THE SEED MIXTURE TO BE ANNUAL RYE TO AIDE IN LIMITING EROSION OF PERENNIAL SEED DURING GERMINATION.
- 4) STRAW SHALL BE THRESHED STRAW OF HAY, OATS, WHEAT, BARLEY, OR RYE. SPREAD AT A RATE OF 2 1/2 TONS PER ACRE. STRAW, NETTING, AND OTHER ANTI-EROSION MATERIALS TO BE REMOVED AFTER ESTABLISHED LAWN.
- 5) MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER SEEDING. WATER REGULARLY TO KEEP LAWN AREAS MOIST TO MAXIMIZE GERMINATION AND MAINTAIN OPTIMUM GROWTH AND SURVIVAL TO ACHIEVE AN ACCEPTABLE STAND OF ESTABLISHED LAWN PRIOR TO THE STORE POSSESSION DATE, FREE OF ERODED OR BARE AREAS.

LANDSCAPING:

- 1) PROVISIONS FOR LOCAL AND/OR REGIONAL REQUIREMENTS, ARE NOT SHOWN ON THESE DRAWINGS. DEVELOPER SHALL PROVIDE LANDSCAPING IN ACCORDANCE WITH JURISDICTION REQUIREMENTS.
- 2) ALL SOIL USED FOR PLANTING SHALL CONSIST OF REGIONALLY APPROPRIATE SOILS.
- 3) ALL PLANTING BEDS SHALL HAVE A MINIMUM 3" DEPTH OF MULCH, WITH EDGING AS REQUIRED.
- 4) ALL TREES LOCATED IN SOD AREAS SHALL HAVE A MULCH RING AROUND THEM WITH EDGING AS REQUIRED.
- 5) ALL PLANTINGS SHALL BE THOROUGHLY WATERED BY THE LANDSCAPE CONTRACTOR AT THE TIME OF THE PLANTINGS.
- 6) PRIOR TO FINAL ACCEPTANCE OF STORE BY DOLLAR GENERAL, THE SITE SHALL BE CLEAN OF ALL DEBRIS AND TRASH, AND MEET ALL REQUIREMENTS OUTLINED IN SECTIONS A-C ABOVE.
- 7) MAXIMUM SLOPE CUTS SHALL NOT EXCEED 4:1. ALL DISTURBED GRADES GREATER THAN 8:1 SHALL BE STABILIZED BY SODDING. SODDING PINS ARE TO BE USED ON ALL 4:1 GRADES.

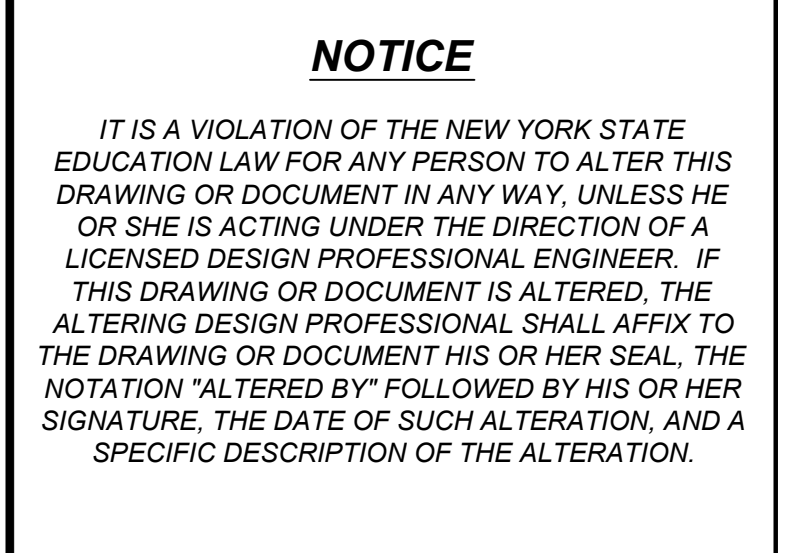
IRRIGATION:

- 1) ALL LANDSCAPE AREAS AND LAWNS ADJACENT TO PAVED AREAS AND/OR STREETS ARE TO BE FULLY IRRIGATED.
- 2) IRRIGATION SYSTEM TO INCLUDE ALL SPRAY HEADS, VALVES AND CONTROLLERS. A SEPARATE METER AND BACKFLOW PREVENTER WILL BE REQUIRED.
- 3) LOCATE HEAD A MINIMUM OF 2'-0" FROM EDGE OF PAVEMENT/CURB.
- 4) LOCATE RAINBIRD CONTROL PANEL IN RECEIVING AREA NEXT TO ELECTRICAL PANELS.

NO.	DATE	DESCRIPTION	INT.
0	2023-07-27	INITIAL SUBMISSION	DWY
1	2024-07-03	SUBMIT TO TOWNSHIP	DWY

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DEVELOPER:

The Broadway Group
Commercial Real Estate Development

THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801



DESIGN PROFESSIONAL FIRM:

WMB
GEOLOGIC & ENGINEERING SERVICES, DPC

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID:	21-274.02-DY	DRAWN:	JAM
DATE:	2023-07-27	DESIGN:	DWY
SCALE:	AS NOTED	CHECKED:	DWY

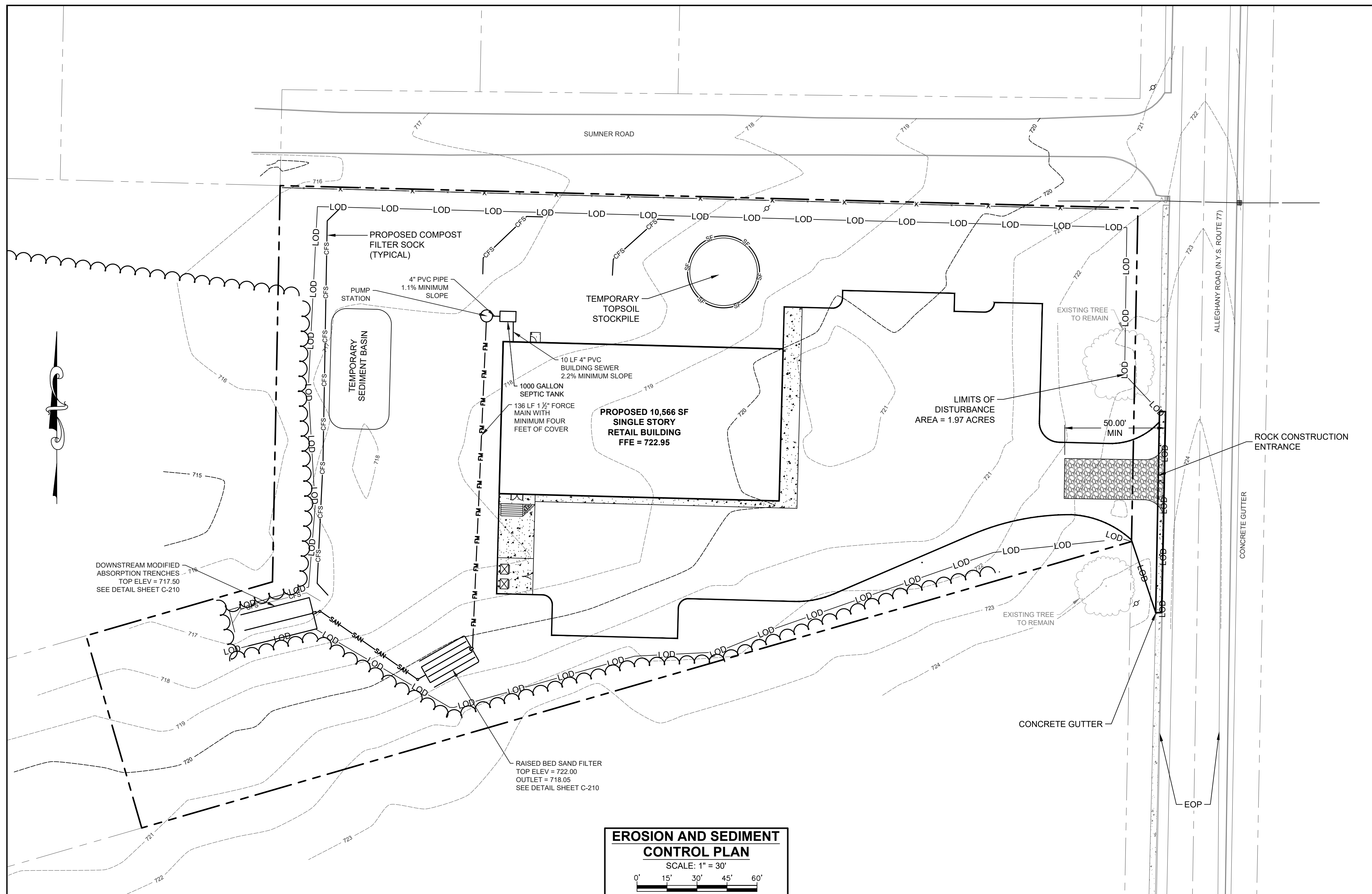
PROJECT:

10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEEE COUNTY, NY

DRAWING TITLE:

LANDSCAPING PLAN

PLAN STATUS:	DESIGN	SHEET NUMBER:	C-150
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- LEGEND:**
- PROJECT PROPERTY LINE
 - ADJOINER PROPERTY LINE
 - ⊗ UTILITY POLE
 - W --- WATER MAIN
 - PROPOSED TREE LINE
 - LOD --- LIMITS OF DISTURBANCE
 - PROPOSED CONCRETE
 - CFS --- PROPOSED COMPOST FILTER SOCK
 - SF --- PROPOSED SILT FENCE

EROSION AND SEDIMENT CONTROL PLAN
SCALE: 1" = 30'

NO.	DATE	DESCRIPTION	INT.
0	2023-07-27	INITIAL SUBMISSION	DWY
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216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801



DESIGN PROFESSIONAL FIRM:

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

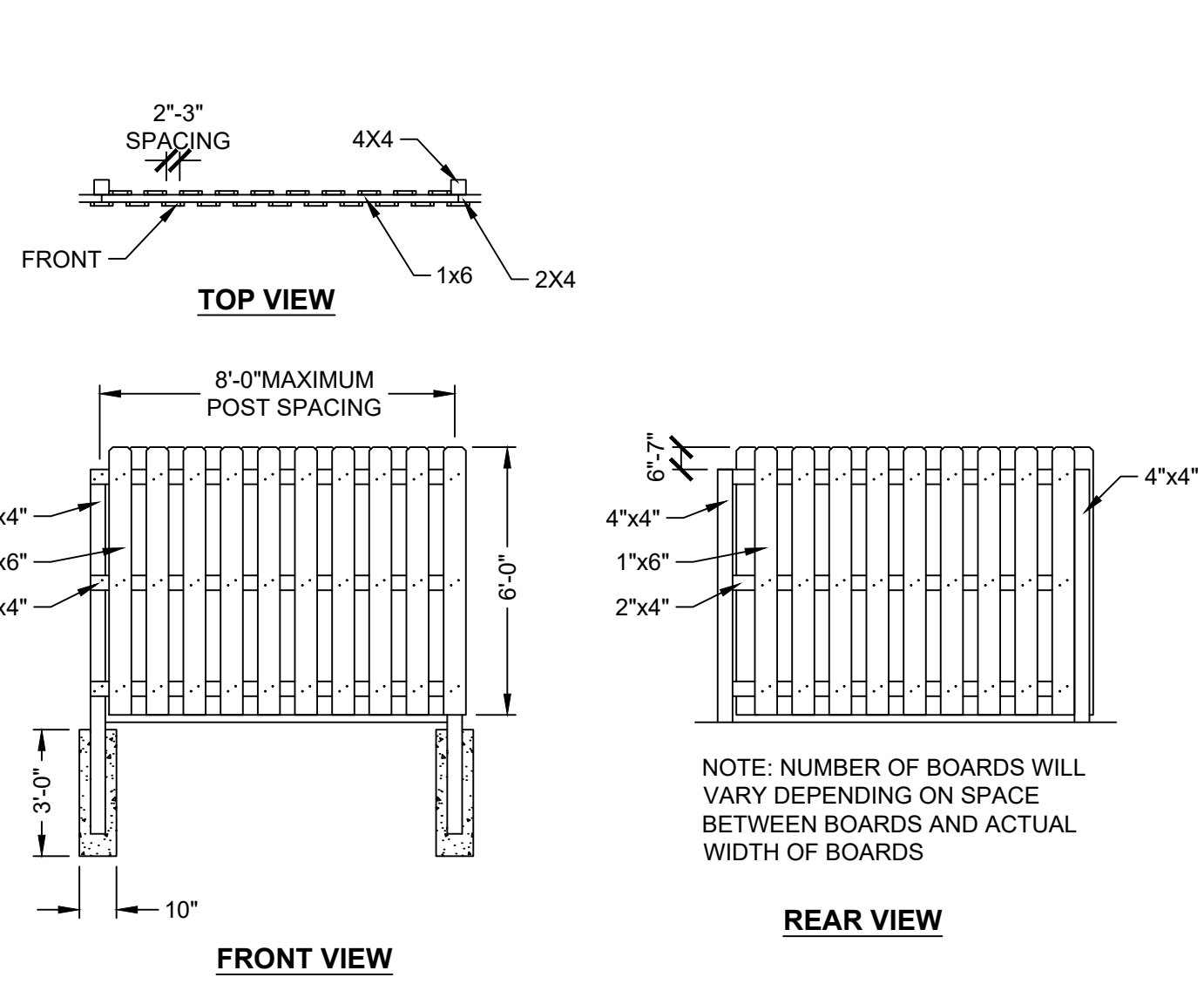
PROJECT ID: 21-274.02-DY	DRAWN: JAM
DATE: 2023-07-27	DESIGN: DWY
SCALE: AS NOTED	CHECKED: DWY

PROJECT:

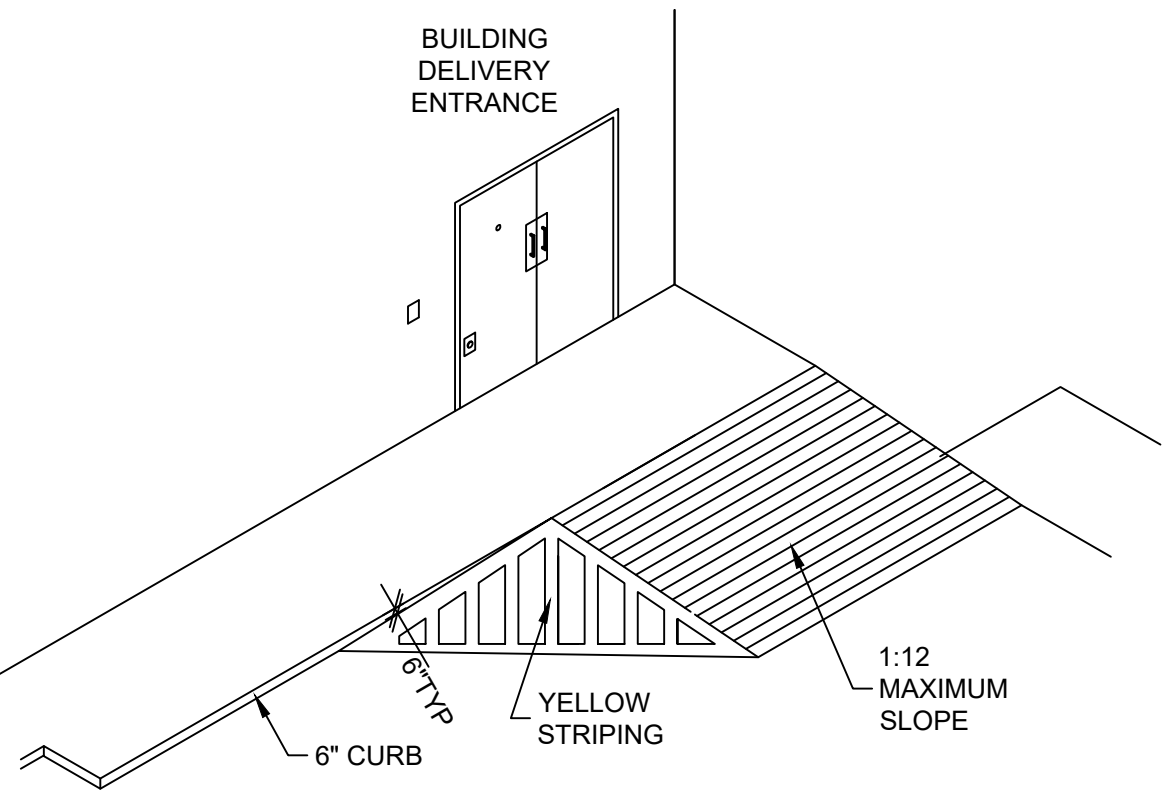
10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEEE COUNTY, NY

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL PLAN

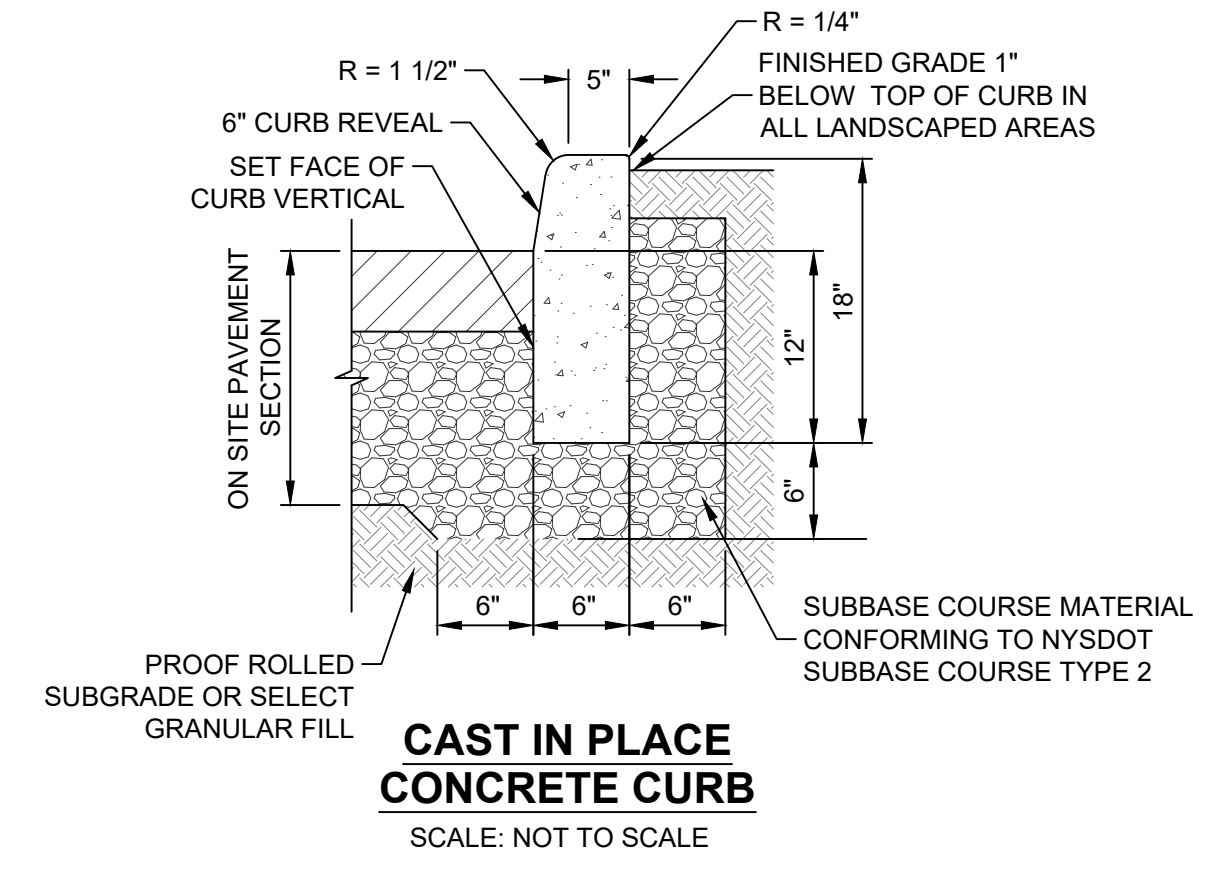
PLAN STATUS: DESIGN	SHEET NUMBER: C-160
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STRAIGHT SHADOWBOX PRIVACY FENCING
TREATED PINE (USE GALVANIZED NAILS FOR FASTENING)

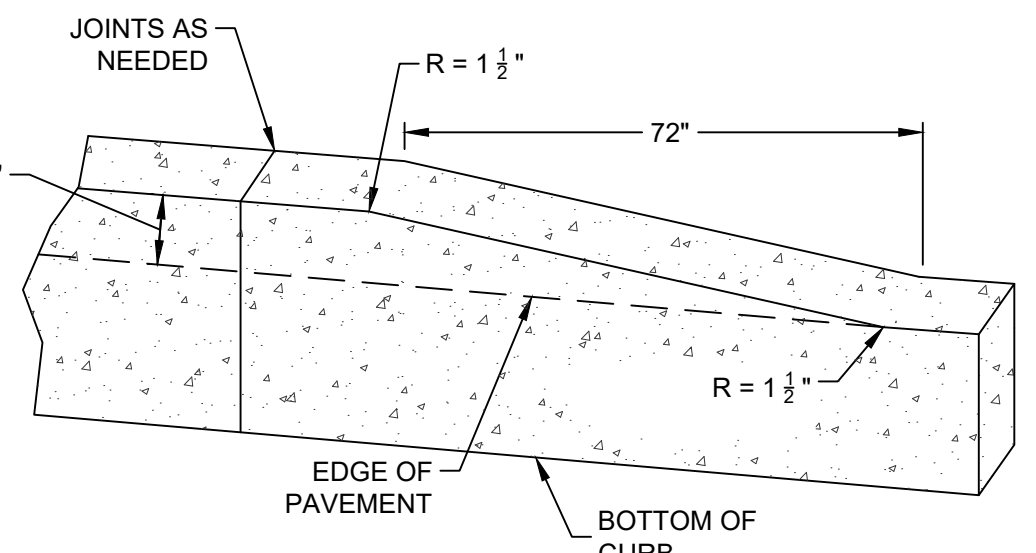


LOADING RAMP
SCALE: NOT TO SCALE

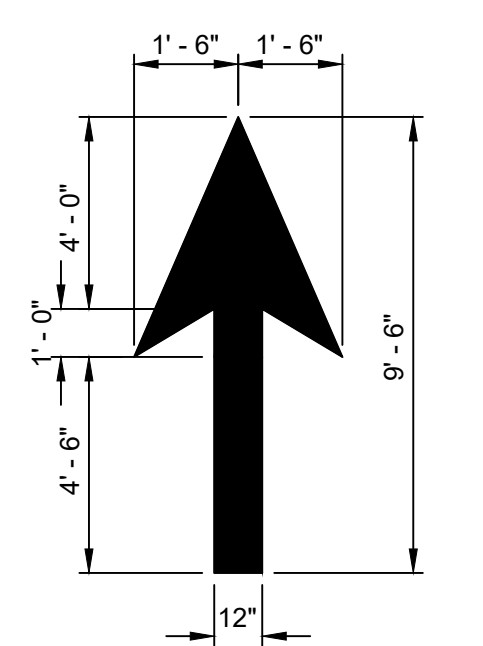


CAST IN PLACE CONCRETE CURB
SCALE: NOT TO SCALE

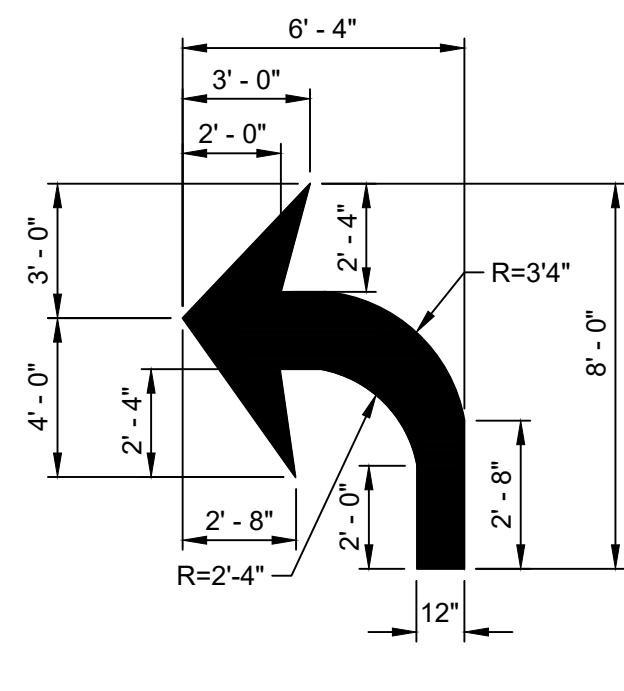
NOTES:
1) CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.



CAST-IN-PLACE CONCRETE CURB TRANSITIONS

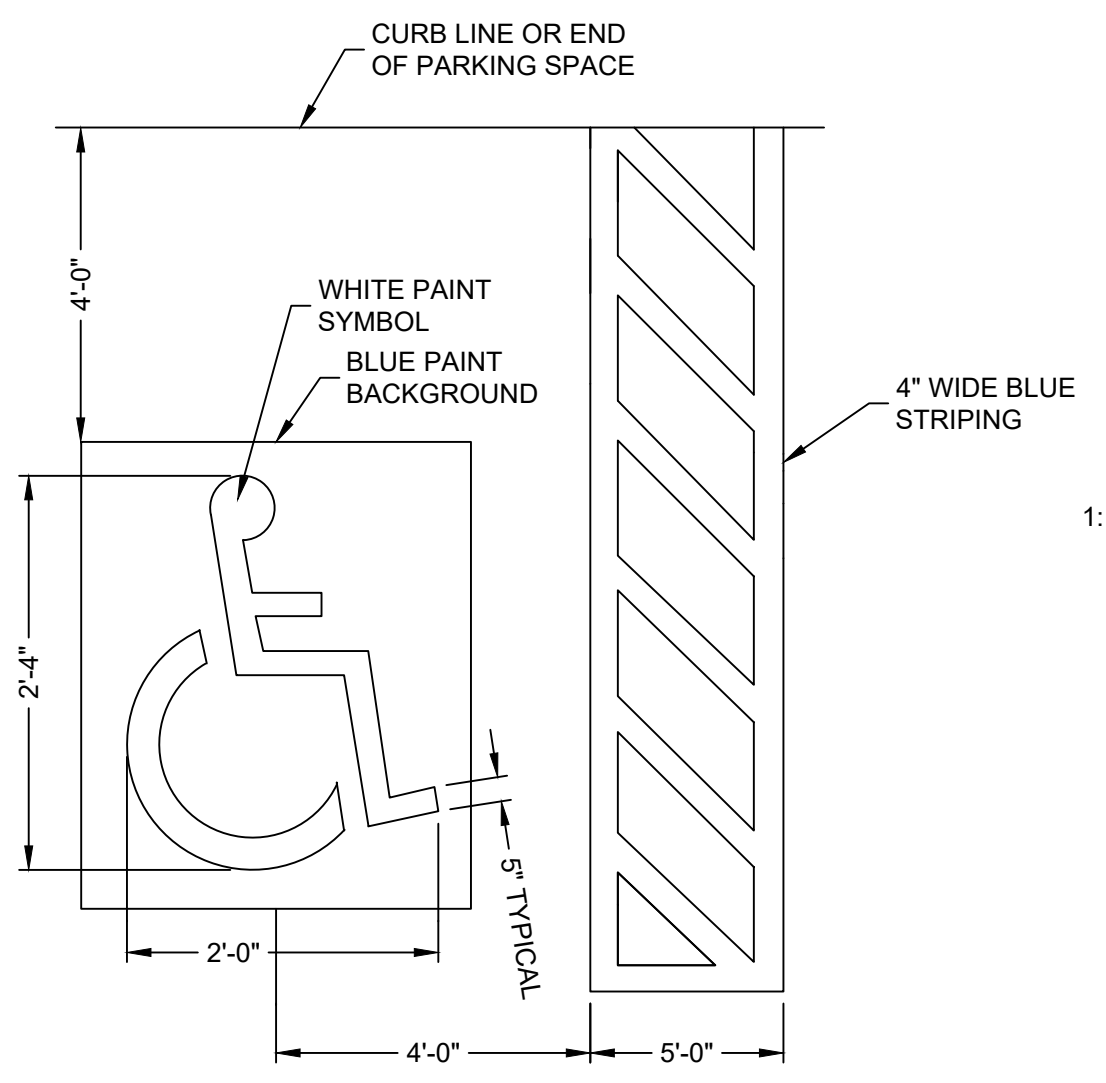


DIRECTIONAL ARROW PAVEMENT MARKING
SCALE: NOT TO SCALE

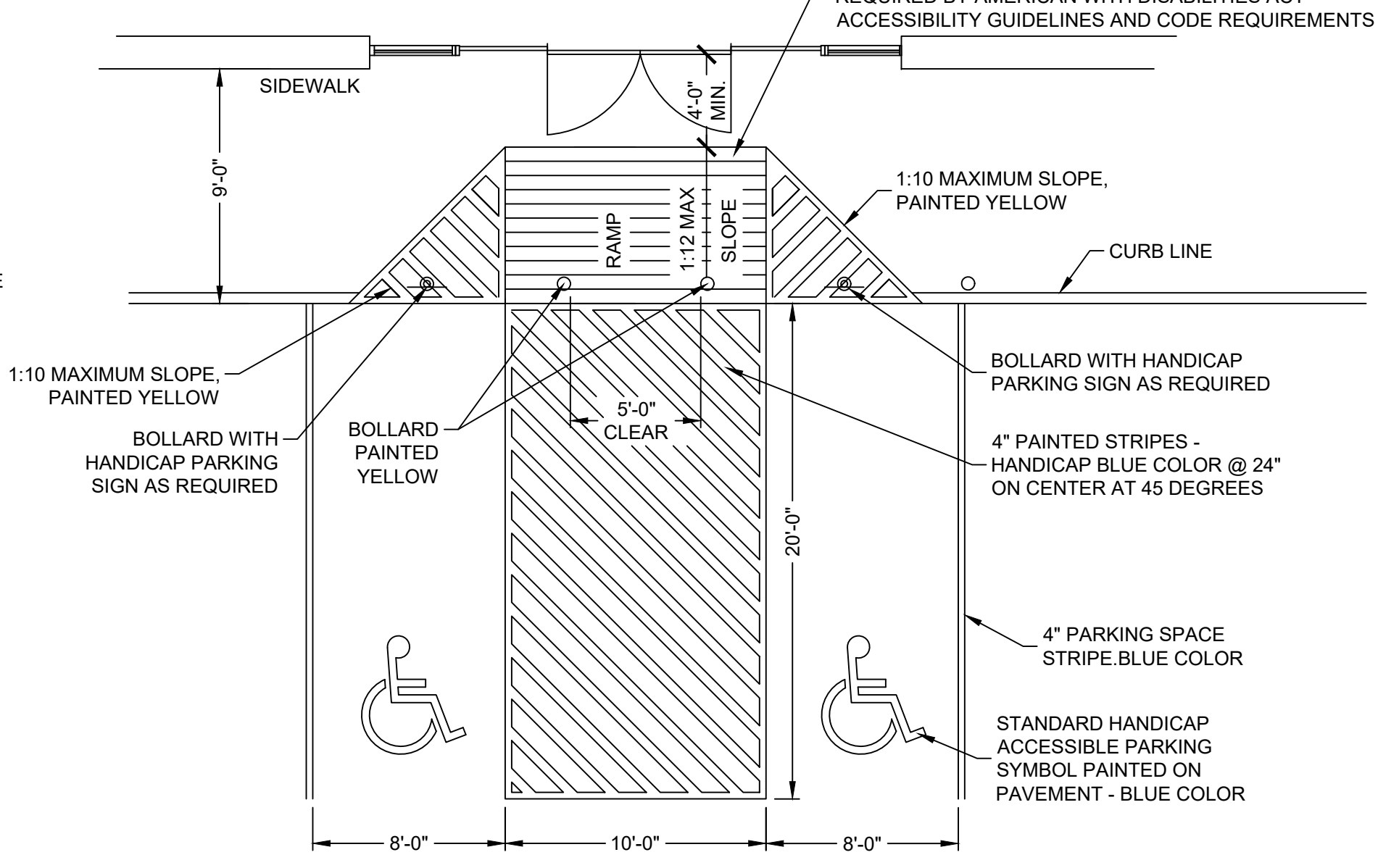


DIRECTIONAL ARROW PAVEMENT MARKING
SCALE: NOT TO SCALE

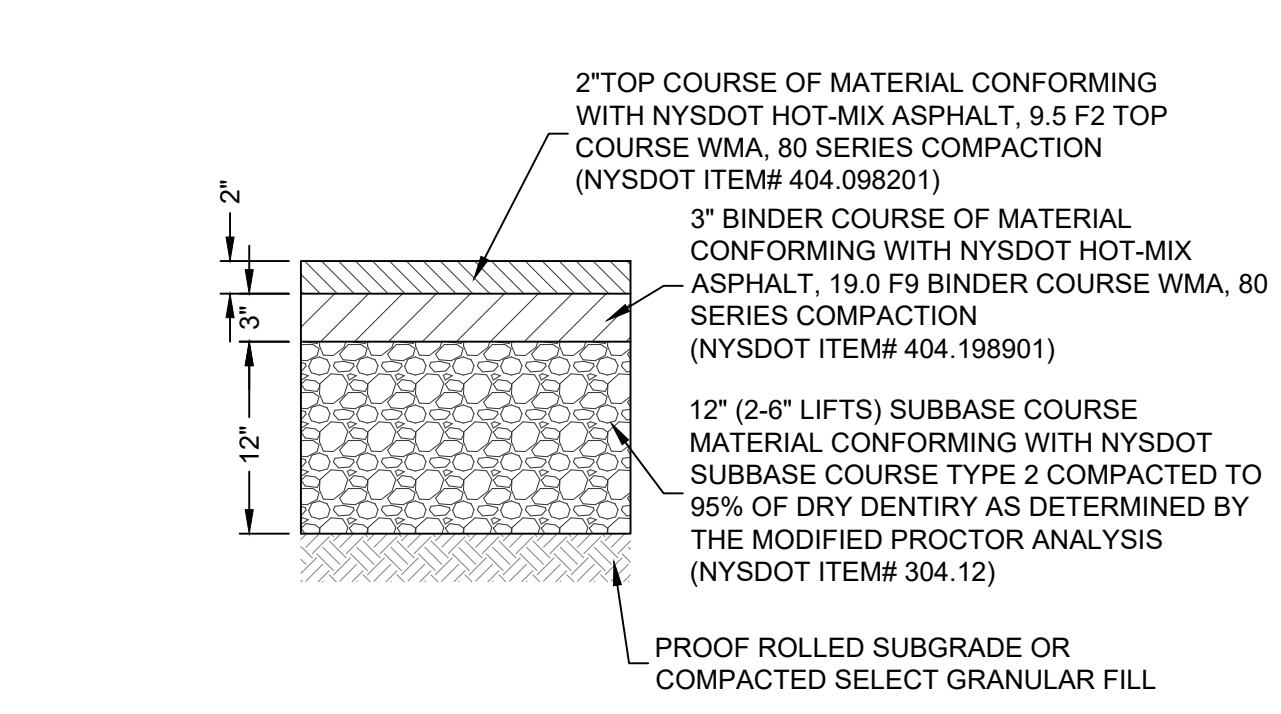
NOTES:
1) ALL HANDICAPPED RAMP AND ACCESS AISLES SHALL MEET ALL CODES AND ADAAG REGULATIONS.
2) HANDICAP ACCESSIBLE / SHOPPING CART RAMP TO BE CENTERED ABOUT THE FRONT DOOR.



HANDICAP ACCESSIBLE PARKING SPACE
SCALE: NOT TO SCALE

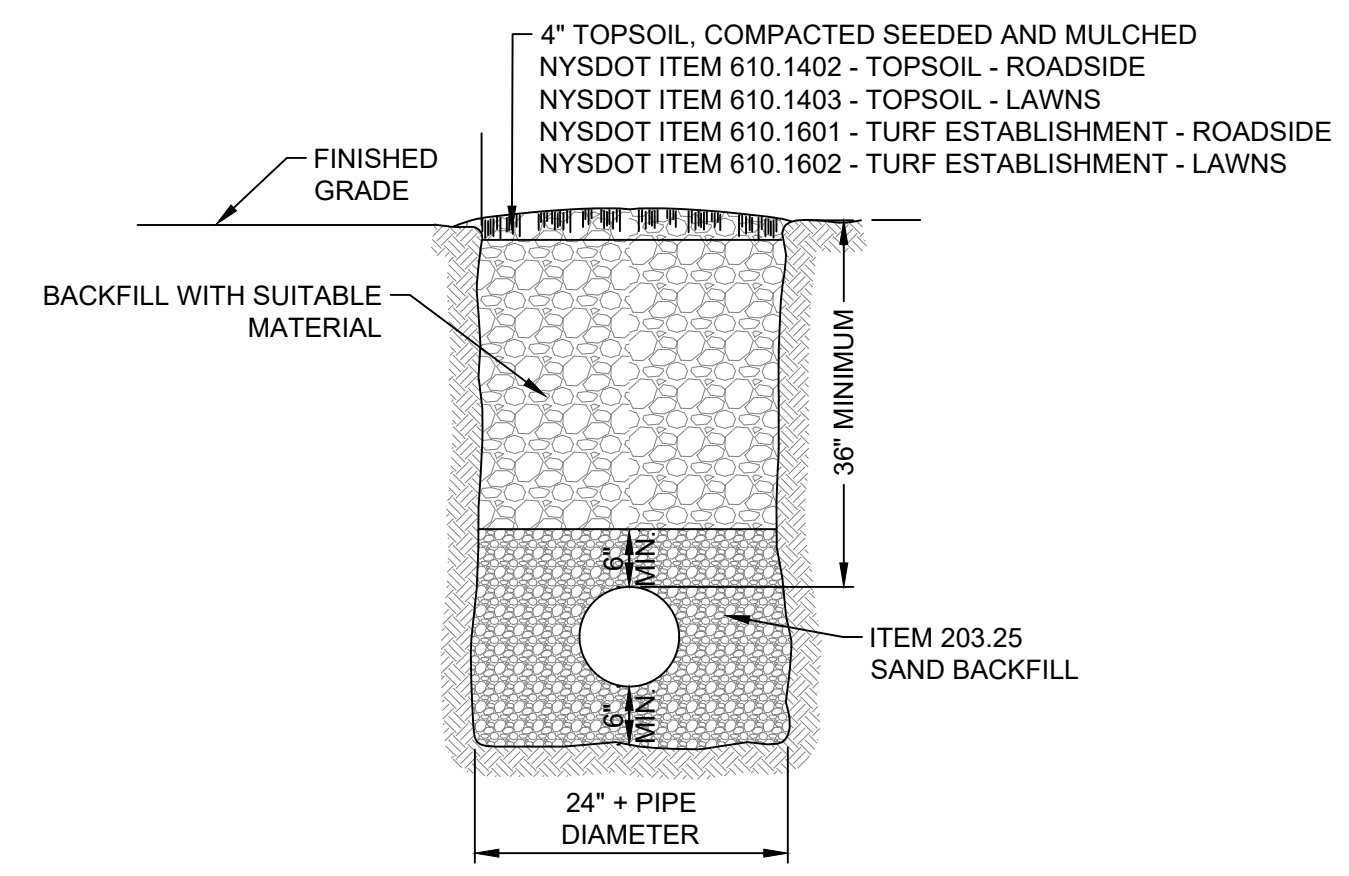


HANDICAP ACCESSIBLE PARKING AND ACCESS
SCALE: NOT TO SCALE



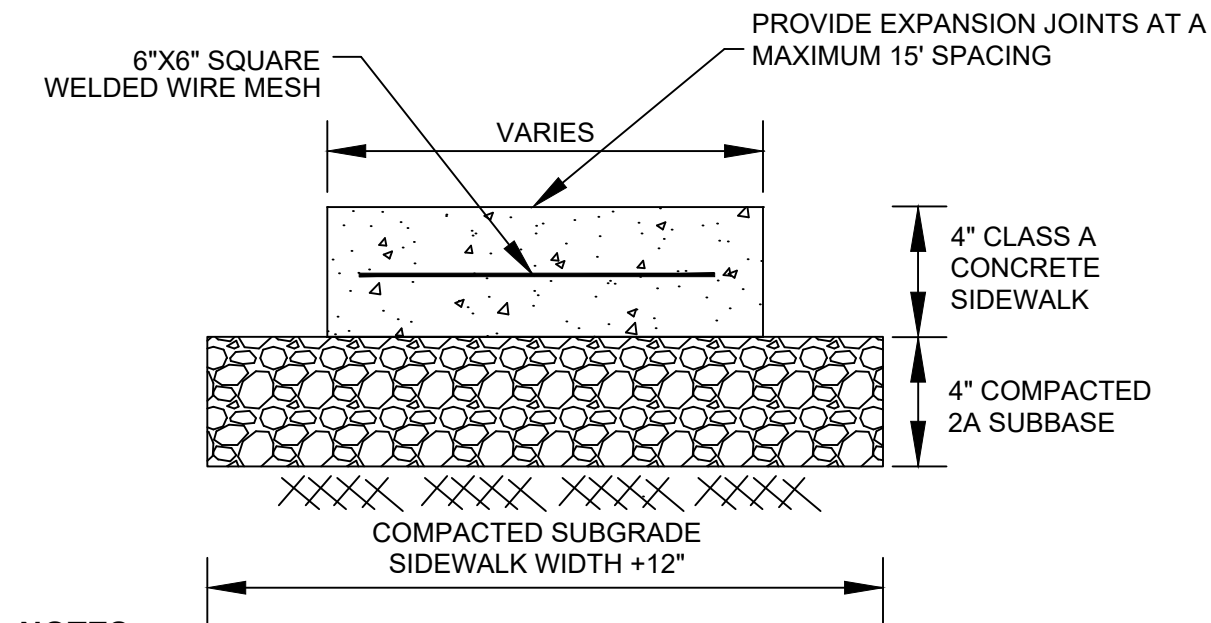
NYSDOT PAVEMENT SECTION
SCALE: NOT TO SCALE

NOTES:
1) A TACK COAT SHALL BE APPLIED PRIOR TO EVERY ASPHALT LAYER IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS



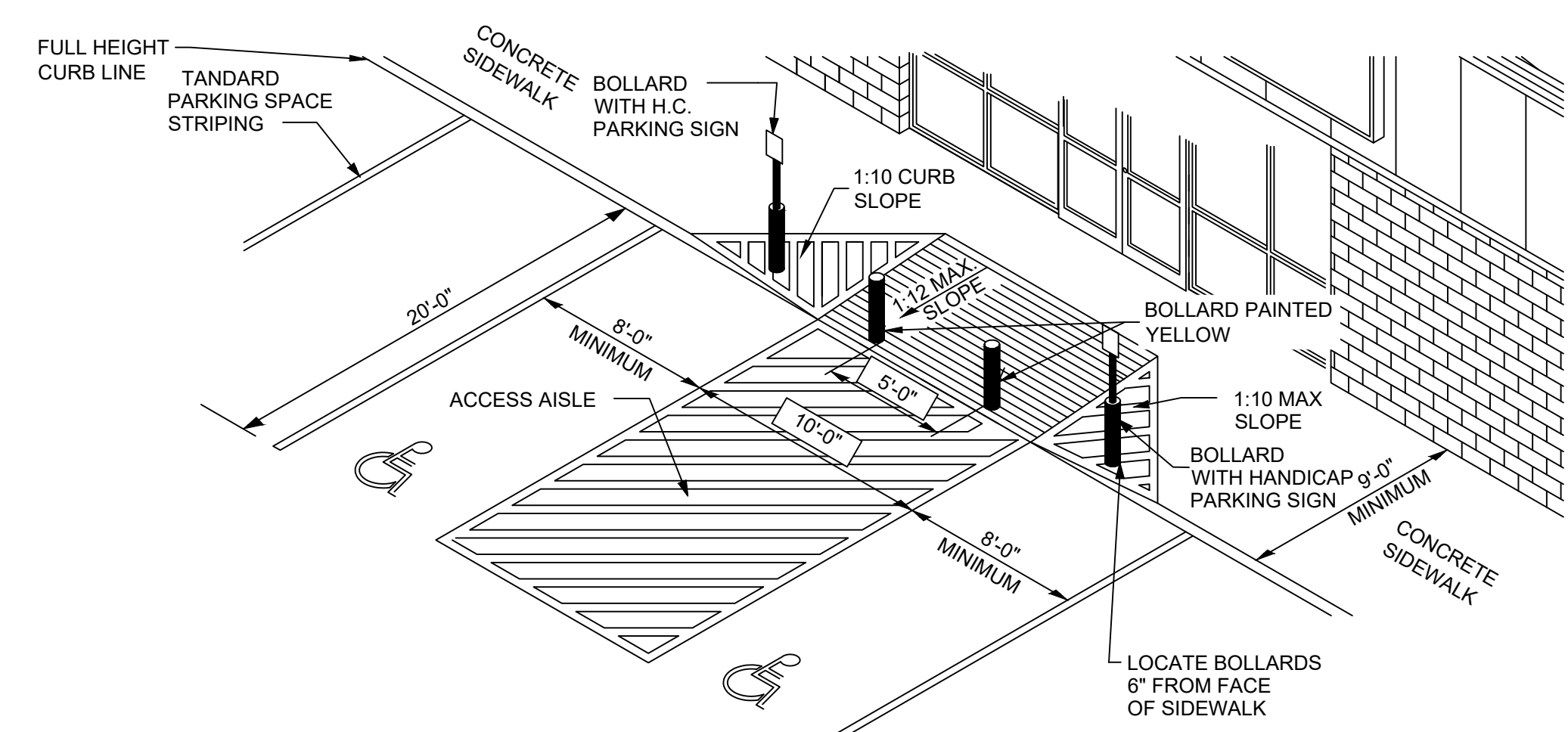
NYSDOT ROW EXCAVATION / RESTORATION OUTSIDE OF PAVEMENT AND SHOULDER
NOT TO SCALE

NOTES:
1) BACKFILL OF SUITABLE MATERIAL SHALL BE COMPACTED IN MAXIMUM 6" LIFTS
2) ALL DISTURBED WORK AREAS SHALL BE MULCHED OR HAVE TURF ESTABLISHED WITHIN 10 DAYS
3) ALL WORK SHALL CONFORM TO NYSDOT SPECIFICATIONS



NOTES:
1) EXPANSION JOINTS TO BE 1/2" PREMOLDED EXPANSION JOINT MATERIAL FOR FULL DEPTH OF SIDEWALK.
2) EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SECTIONS OF SIDEWALK AND BETWEEN SIDEWALK AND CURB.
3) INTEGRAL SIDEWALK AND CURB WILL BE ACCEPTABLE AFTER APPROVAL OF CONSTRUCTION METHOD BY ENGINEER AND OR OWNER.
4) PLACE TRAVERSE DUMMY JOINTS AT 5-FOOT INTERVALS, APPROXIMATELY 1/8" WIDE AND A MINIMUM OF 1 INCH DEEP.

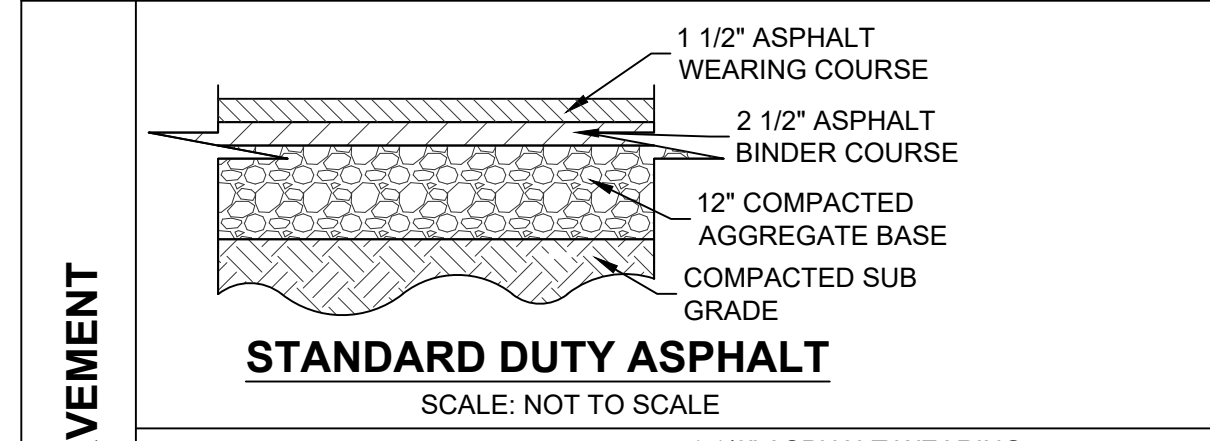
REINFORCED CONCRETE SIDEWALK
NOT TO SCALE



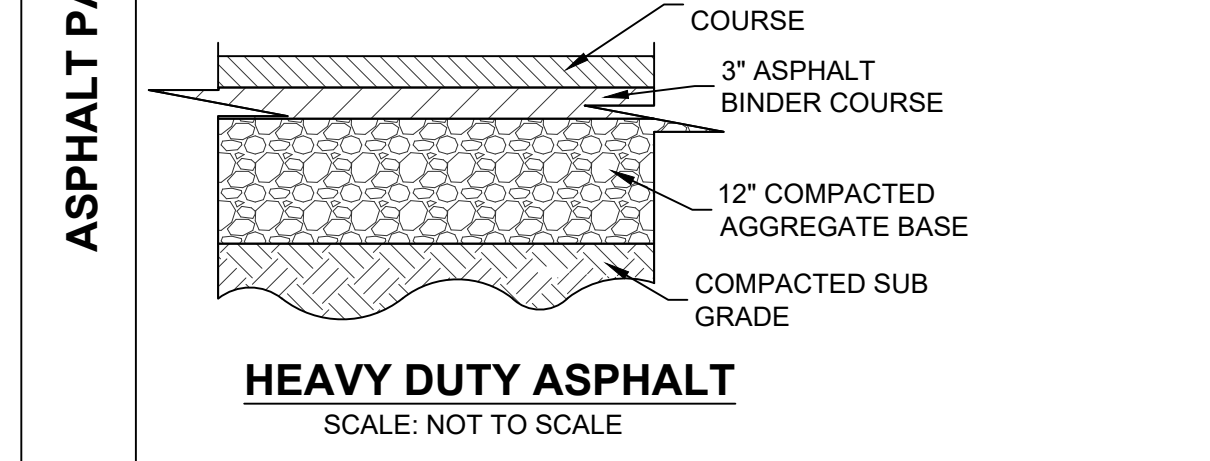
HANDICAP ACCESSIBLE PARKING AND ACCESS
SCALE: NOT TO SCALE

PAVEMENT DETAILS

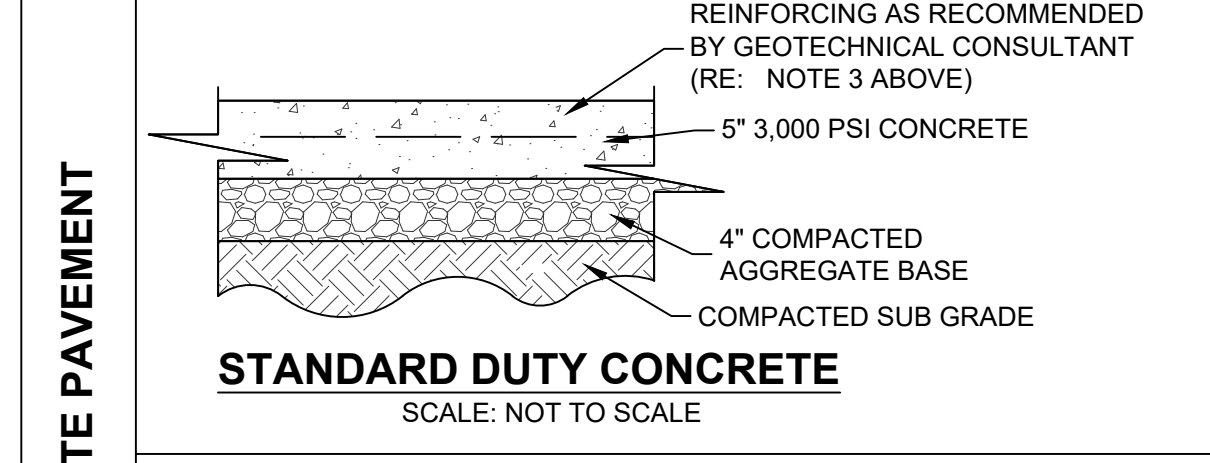
1. DETAILS ARE DOLLAR GENERAL STANDARD REQUIREMENTS AND MAY INCREASE OR DECREASE WITH VARIOUS SOIL CONDITIONS. A GEOTECHNICAL INVESTIGATION WITH PAVEMENT DESIGN RECOMMENDATIONS SHALL BE COMPLETED FOR EACH DEVELOPMENT. THE FOLLOWING DETAILS ARE MINIMUM DOLLAR GENERAL PAVEMENT REQUIREMENTS. INCREASED RECOMMENDATIONS ARE TO BE USED.
2. THE SUBGRADE MATERIALS SHALL BE PROOF ROLLED AND/OR SCARIFIED AND COMPACTED PRIOR TO PLACEMENT OF BASE MATERIAL. WHERE EXISTING SUBGRADE MATERIALS ARE UNSUITABLE, THEY SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT MATERIAL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
3. HEAVY DUTY CONCRETE PAVEMENT AND STANDARD DUTY CONCRETE PAVEMENT (AS RECOMMENDED BY THE GEOTECHNICAL REPORT OR DOLLAR GENERAL MINIMUMS) SHALL BE STEEL REINFORCED. REINFORCEMENT TYPE SHALL BE PRIOR APPROVED BY DOLLAR GENERAL.
4. CONCRETE PAVEMENT PLAN SHALL BE PROVIDED TO DOLLAR GENERAL FOR PRIOR APPROVAL. ALL JOINTS MUST BE SEALED WITH AN APPROVED SEALANT. STEEL REINFORCING SHALL BE USED AT JOINTS. REFER TO ACI 330R (GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS) FOR JOINT DESIGN AND LAYOUT.



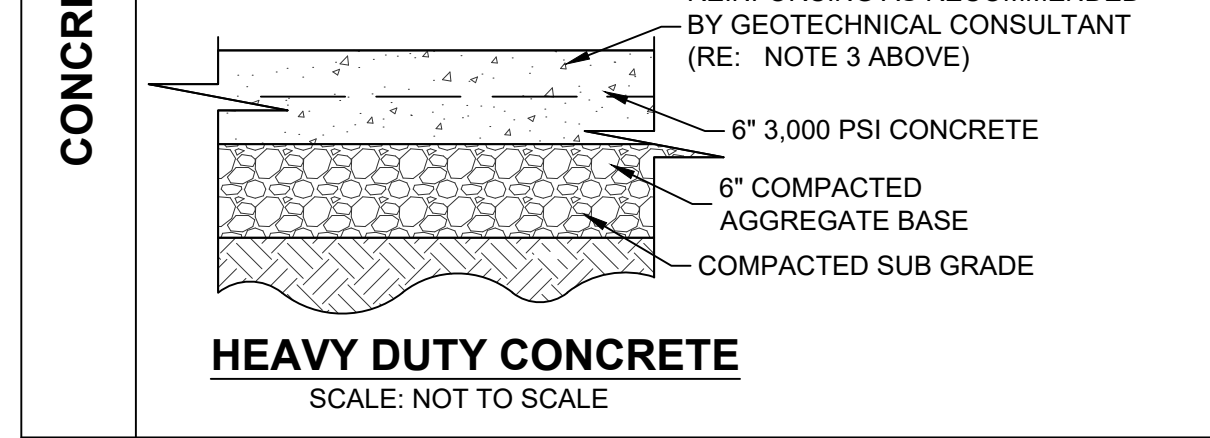
STANDARD DUTY ASPHALT
SCALE: NOT TO SCALE



HEAVY DUTY ASPHALT
SCALE: NOT TO SCALE



STANDARD DUTY CONCRETE
SCALE: NOT TO SCALE



HEAVY DUTY CONCRETE
SCALE: NOT TO SCALE

NO.	DATE	DESCRIPTION	INT.
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NO.	DATE	DESCRIPTION	INT.

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HUNTSVILLE, AL 35801



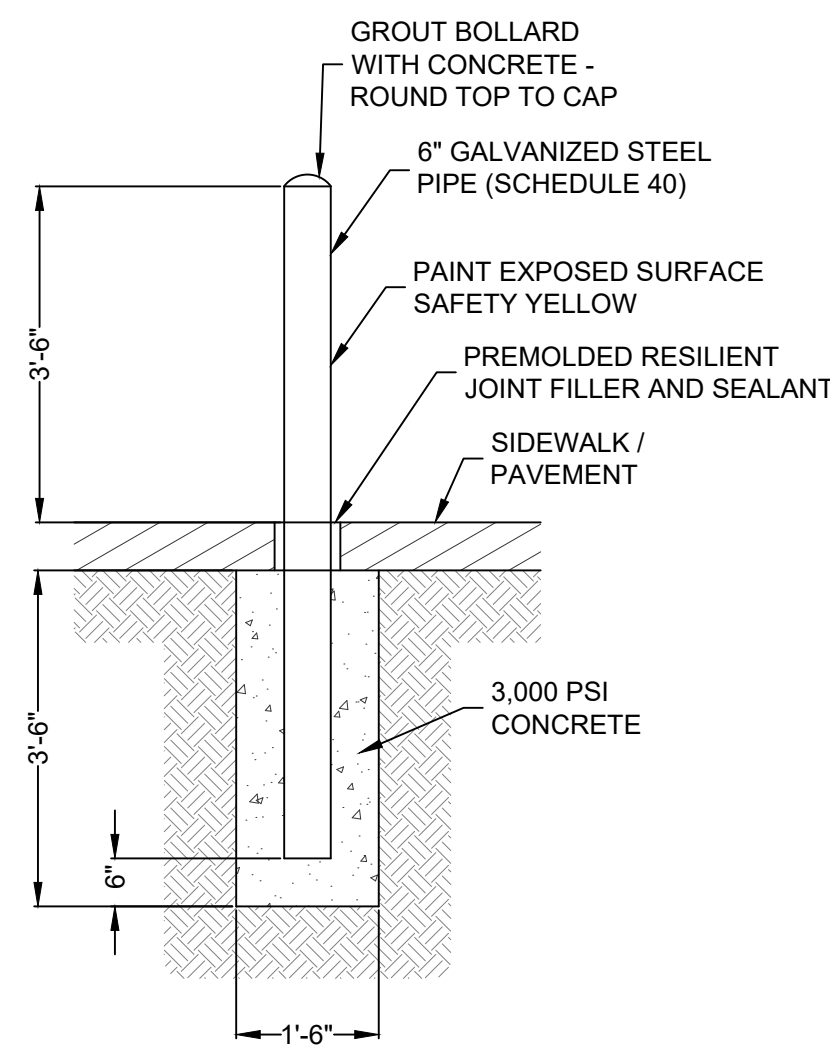
DESIGN PROFESSIONAL FIRM:
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WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID: **21-274.02-DY** DRAWN: **JAM**
DATE: **2023-07-27** DESIGN: **DWY**
SCALE: **AS NOTED** CHECKED: **DWY**

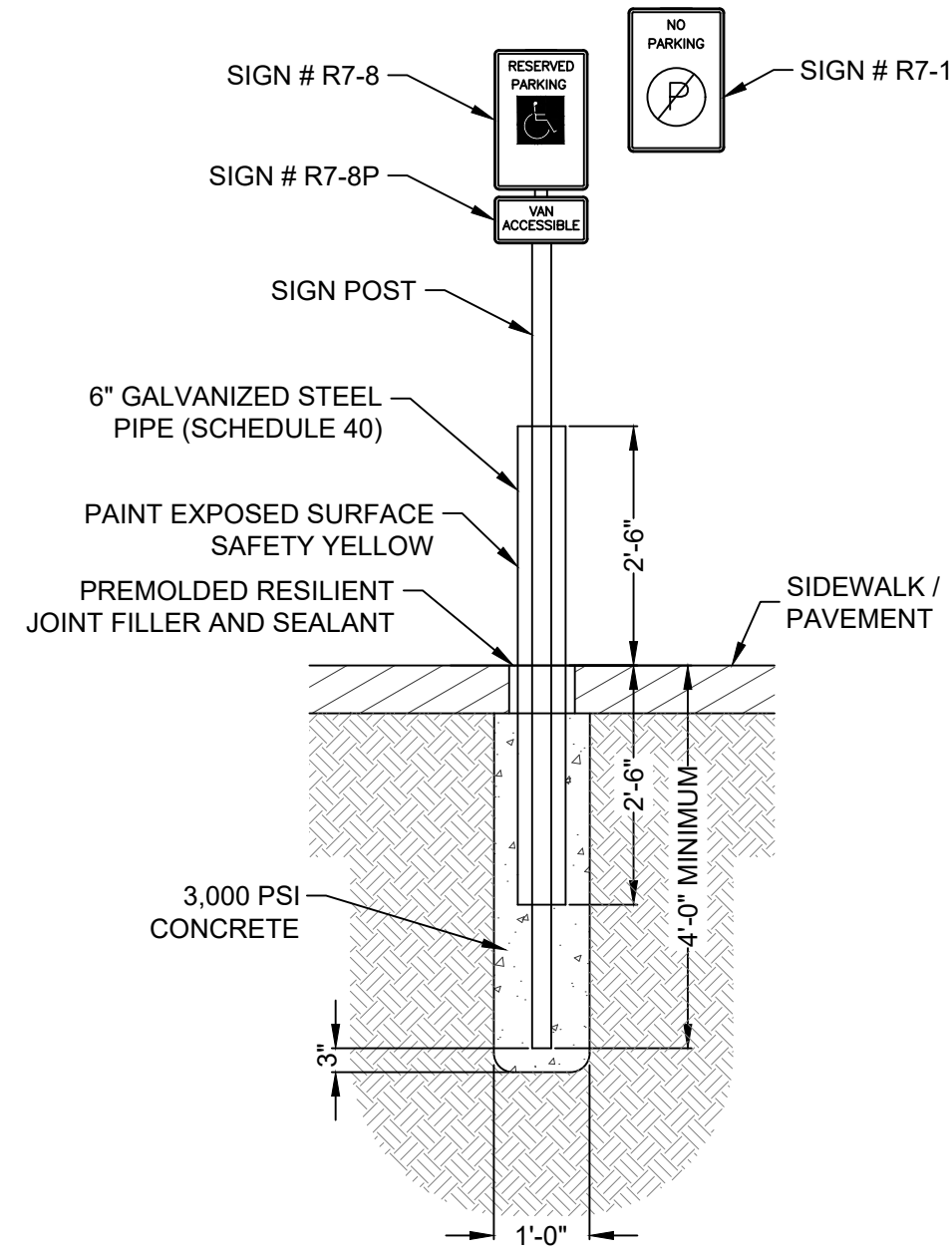
PROJECT:
10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEEE COUNTY, NY

DRAWING TITLE:
SITE DETAILS

PLAN STATUS: **DESIGN** SHEET NUMBER: **C-200**

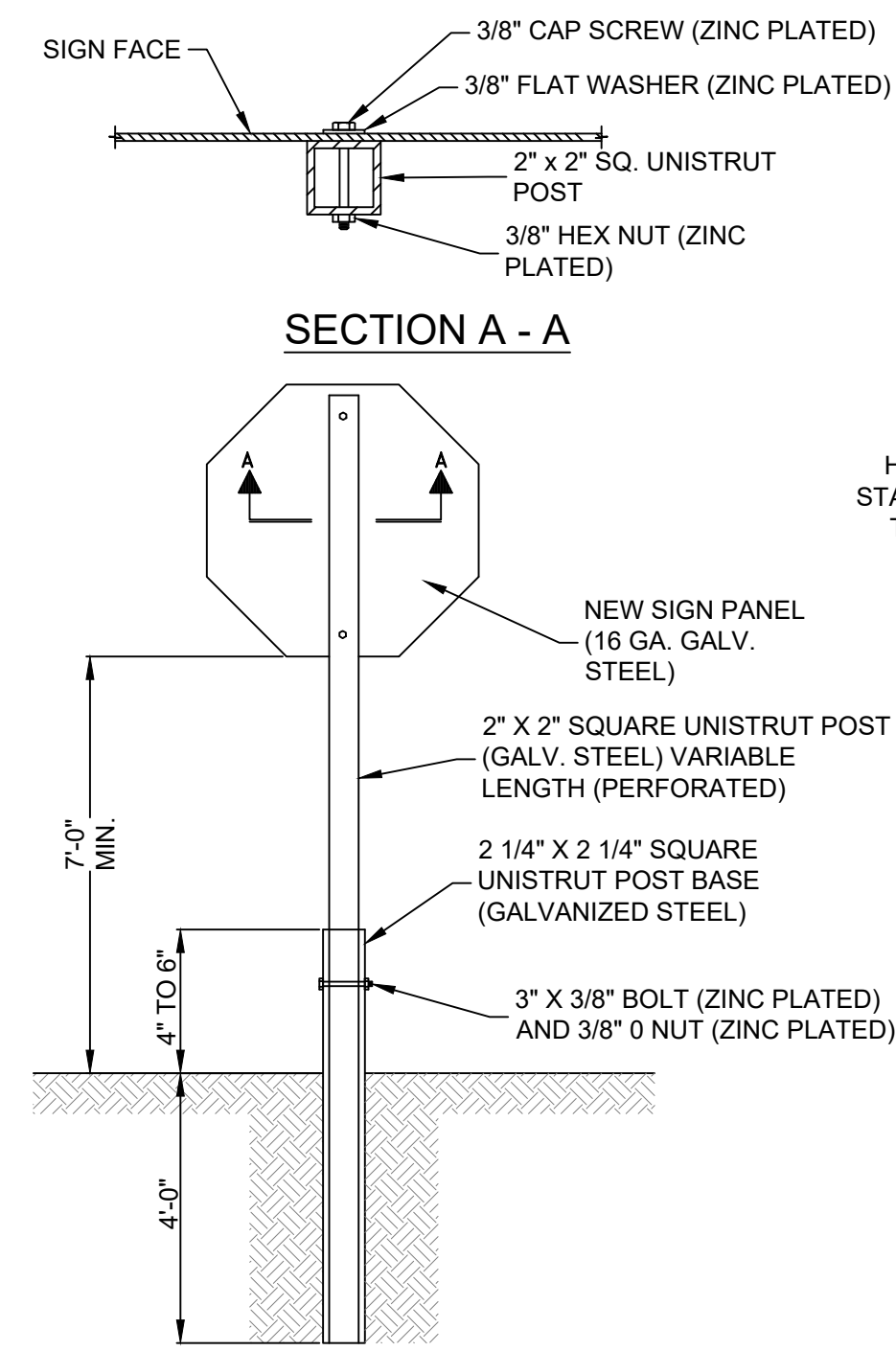


STEEL PIPE BOLLARD
NOT TO SCALE

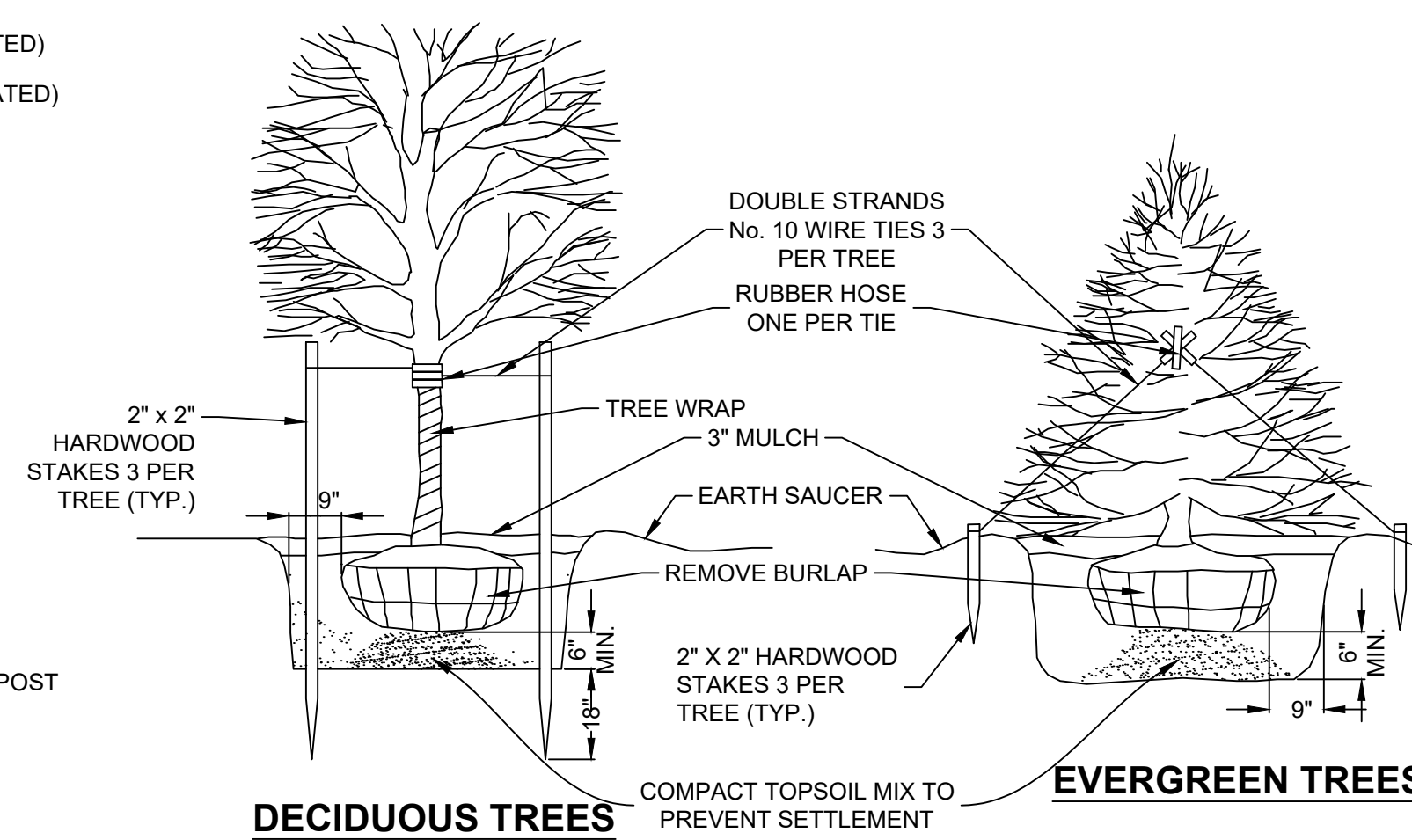


SPECIAL PARKING SIGN
NOT TO SCALE

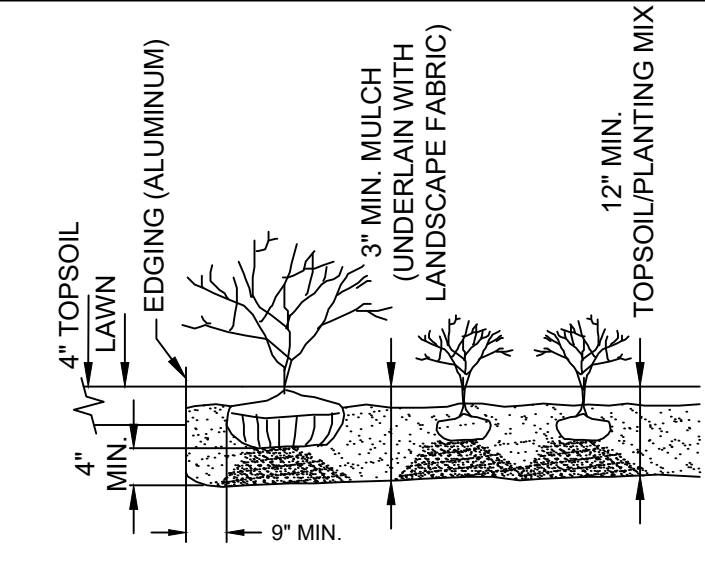
NOTES:
1. ONE SIGN TO BE INSTALLED AT EACH ACCESSIBLE PARKING SPACE.
2. INSTALL AT LOCATIONS SHOWN ON SITE PLAN DRAWINGS



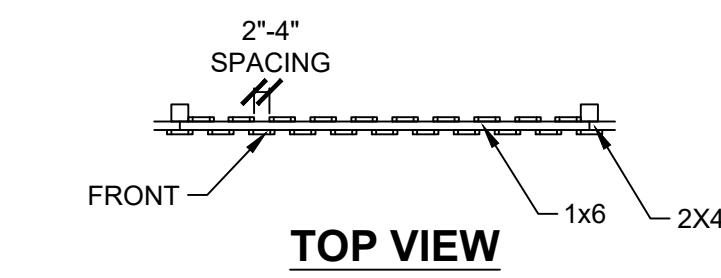
POST MOUNT SIGN INSTALLATION IN SOIL
NOT TO SCALE



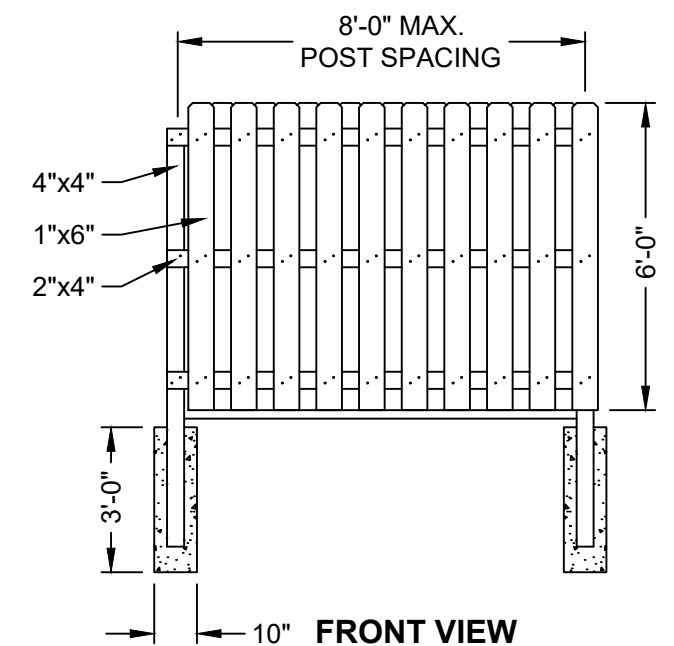
TREE AND SHRUB PLANTING
NOT TO SCALE



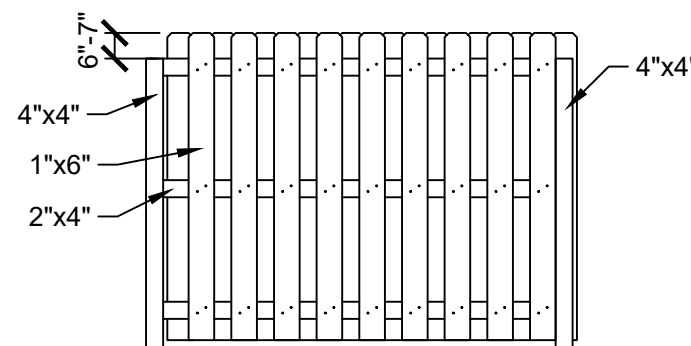
SHRUB AND PLANTING BEDS



TOP VIEW



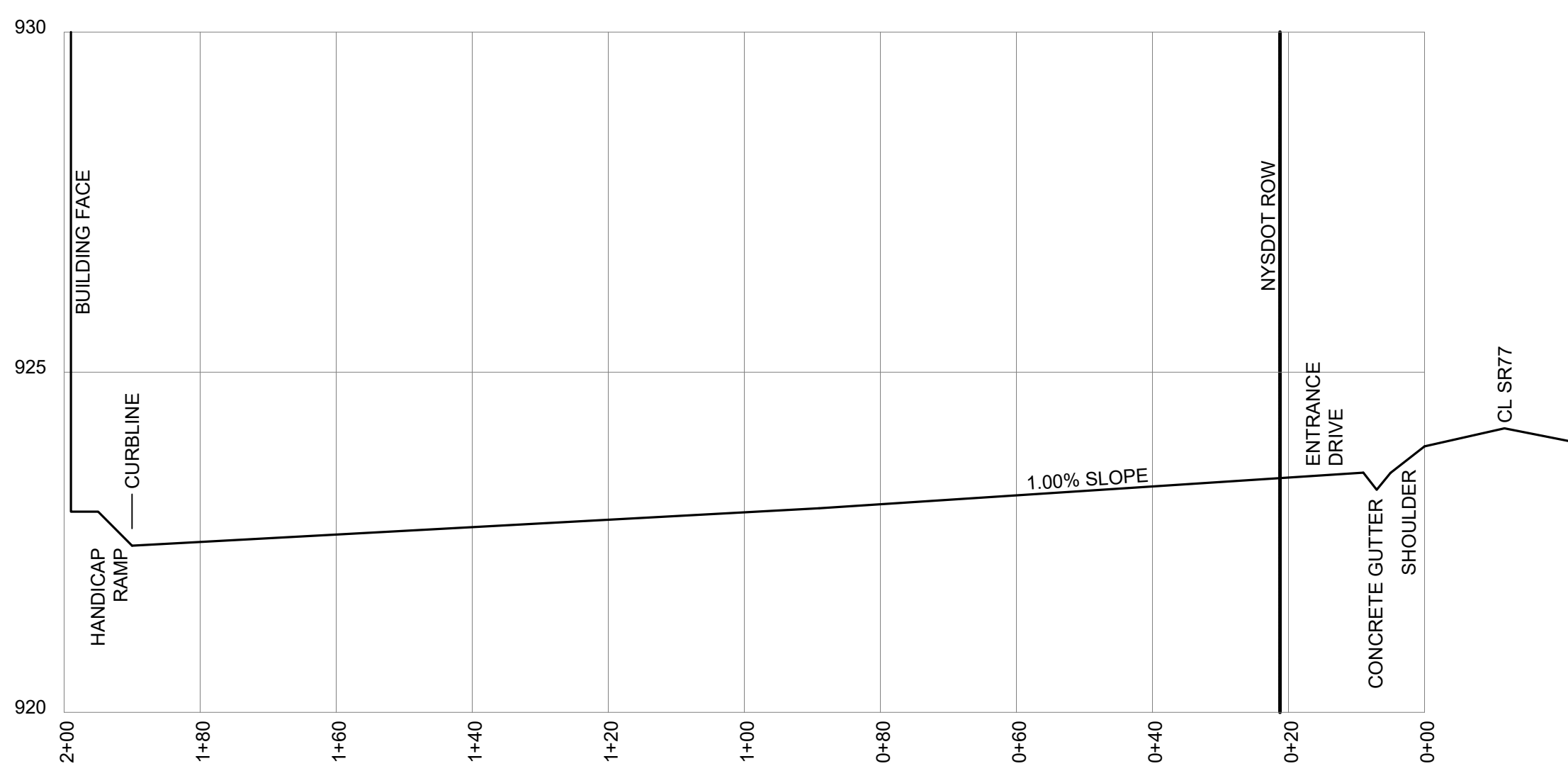
FRONT VIEW



REAR VIEW

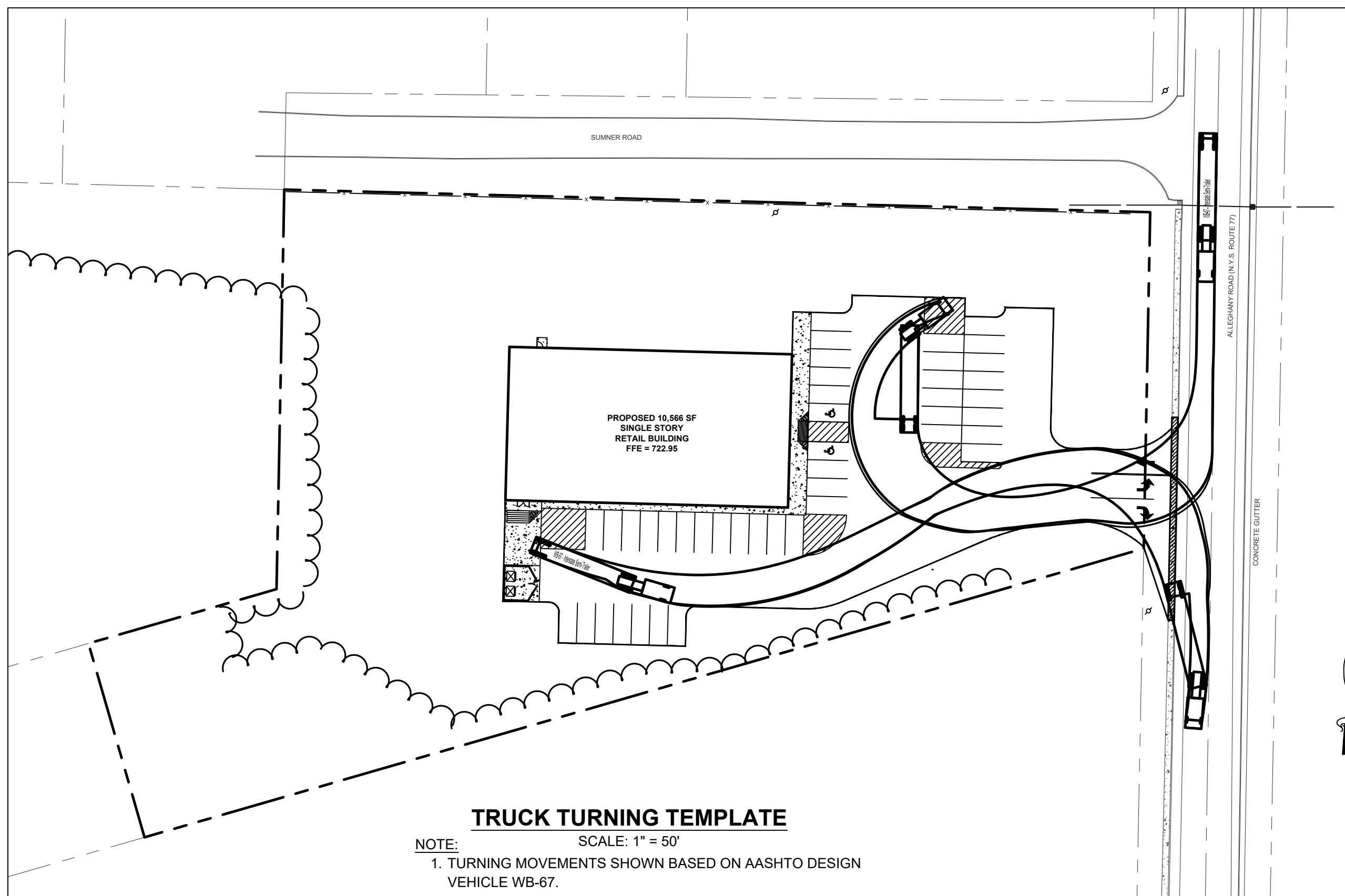
STRAIGHT SHADOWBOX PRIVACY FENCING
TREATED PINE (USE GALVANIZED NAILS FOR FASTENING)

NOTE: NUMBER OF BOARDS WILL VARY DEPENDING ON SPACE BETWEEN BOARDS AND ACTUAL WIDTH OF BOARDS



PROPOSED DRIVE PROFILE (CENTERLINE)

VERTICAL SCALE: 1" = 1'
HORIZONTAL SCALE: 1" = 10'



TRUCK TURNING TEMPLATE

NOTE:
SCALE: 1" = 50'
1. TURNING MOVEMENTS SHOWN BASED ON AASHTO DESIGN VEHICLE WB-67.

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Commercial Real Estate Development
THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801

SEAL OF PROFESSIONAL:

DESIGN PROFESSIONAL FIRM:
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GEOLOGIC & ENGINEERING SERVICES, DPC
WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID: **21-274.02-DY** DRAWN: **JAM**
DATE: **2023-07-27** DESIGN: **DWY**
SCALE: **AS NOTED** CHECKED: **DWY**
PROJECT:
10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEE COUNTY, NY
DRAWING TITLE:
SITE DETAILS
PLAN STATUS: **DESIGN** SHEET NUMBER: **C-201**

REGION 4 STANDARD GENERAL PLAN NOTES

TABLE 310-01: PROTECTIVE VEHICLE REQUIREMENTS

CLOSURE TYPE	ROAD TYPE & SPEED	NON-FREEMAN			
		> 45 MPH	35 - 40 MPH	≤ 30 MPH	
LANE CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMA	P, TMA	P	P
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMA	P	P	SEE NOTE 2
SHOULDER CLOSURE OR ENCROACHMENT	WORKERS ON FOOT OR VEHICLE EXPOSED TO TRAFFIC	P, TMA	P	P	P
	OTHER HAZARDS NO WORKERS EXPOSED	P, TMA	P	P	SEE NOTE 2

TABLE 310-02: ROLL AHEAD DISTANCE

ROLL AHEAD DISTANCE (FT.)	POSTED SPEED	STATIONARY OPERATION
150	40	400
150	45	500
150	50	600
150	55	700
150	60	800
150	65	900
150	70	1000
150	75	1100
150	80	1200

TABLE 310-03: ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS	SSN LEGEND
URBAN < 30 MPH	100	100
URBAN 30-40 MPH	200	200
URBAN 40-45 MPH	300	300
URBAN 45-50 MPH	400	400
URBAN 50-55 MPH	500	500
URBAN 55-60 MPH	600	600
URBAN 60-65 MPH	700	700
URBAN 65-70 MPH	800	800
URBAN 70-75 MPH	900	900
URBAN 75-80 MPH	1000	1000
URBAN 80-85 MPH	1100	1100
URBAN 85-90 MPH	1200	1200
URBAN 90-95 MPH	1300	1300
URBAN 95-100 MPH	1400	1400
RURAL	500	500

TABLE 310-04: LONGITUDINAL BUFFER SPACE AND TAPER LENGTHS

PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	LONGITUDINAL BUFFER SPACE (FT.)		TAPER LENGTH (FT.)		SHOULDER TAPER LENGTH (L) (FT.)	L (FT.)
	FOR LANE WIDTH IN FT.	FOR SHOULDER WIDTH	FOR LANE WIDTH IN FT.	FOR SHOULDER WIDTH		
25	155/4	120/2/4	120/2/4	40/1/2	40/1/2	40/1/2
30	200/5	160/4/5	160/4/5	50/2/5	50/2/5	50/2/5
35	250/6	200/5/6	200/5/6	60/2/6	60/2/6	60/2/6
40	300/8	280/7/8	280/6/9	80/2/8	80/2/8	80/2/8
45	360/9	440/11/12	350/8/9	100/2/9	100/2/9	100/2/9
50	425/11	520/13/14	460/11/15	120/2/10	120/2/10	120/2/10
55	495/13	560/14/15	600/15/16	140/2/11	140/2/11	140/2/11

TABLE 310-05: REQUIRED SIGN SIZES*

SSN	NON-FREEMAN	FREEMAN
SS-1	36x18	48x24
SS-2	36x18	48x24
W1-3a	24x18	36x30
W1-23	36x36	48x48
W2-1	36x36	48x48
W2-2	36x36	48x48
W2-3	36x36	48x48
W2-4	36x36	48x48
W2-5	36x36	48x48
W2-6	36x36	48x48
W2-7	36x36	48x48
W2-8	36x36	48x48
W2-9	36x36	48x48
W2-10	36x36	48x48
W2-11	36x36	48x48
W2-12	36x36	48x48
W2-13	36x36	48x48
W2-14	36x36	48x48
W2-15	36x36	48x48
W2-16	36x36	48x48
W2-17	36x36	48x48
W2-18	36x36	48x48
W2-19	36x36	48x48
W2-20	36x36	48x48
W2-21	36x36	48x48
W2-22	36x36	48x48
W2-23	36x36	48x48
W2-24	36x36	48x48
W2-25	36x36	48x48
W2-26	36x36	48x48
W2-27	36x36	48x48
W2-28	36x36	48x48
W2-29	36x36	48x48
W2-30	36x36	48x48

SPECIAL NOTE

TEMPORARY LANE/SHOULDER CLOSURE RESTRICTIONS FOR MAJOR HOLIDAYS

THERE SHALL BE NO TEMPORARY LANE/SHOULDER CLOSURES ON ROADWAY FACILITIES OWNED AND/OR MAINTAINED BY NYSDOT ON THE MAJOR HOLIDAYS LISTED BELOW.

CONSTRUCTION ACTIVITIES THAT WILL RESULT IN TEMPORARY LANE/SHOULDER CLOSURES SHALL BE SUSPENDED TO MINIMIZE TRAVEL DELAYS ASSOCIATED WITH ROAD WORK FOR MAJOR HOLIDAYS AS FOLLOWS:

HOLIDAY	FALLS ON	TEMPORARY LANE CLOSURES ARE NOT ALLOWED FROM
NEW YEAR'S DAY INDEPENDENCE DAY CHRISTMAS DAY	SUNDAY OR MONDAY	6:00 AM FRIDAY BEFORE TO 6:00 AM TUESDAY AFTER
	TUESDAY	6:00 AM SATURDAY BEFORE TO 6:00 AM WEDNESDAY AFTER (STARTING AT 6:00 AM FRIDAY BEFORE TO 6:00 AM WEDNESDAY AFTER FOR CHRISTMAS DAY)
	WEDNESDAY	6:00 AM TUESDAY BEFORE TO 6:00 AM THURSDAY AFTER (STARTING AT 6:00 AM SATURDAY BEFORE TO 6:00 AM THURSDAY AFTER FOR CHRISTMAS DAY)
THURSDAY	THURSDAY	6:00 AM THURSDAY TO 6:00 AM MONDAY AFTER (STARTING AT 6:00 AM WEDNESDAY BEFORE TO 6:00 AM MONDAY AFTER FOR CHRISTMAS DAY)
	FRIDAY OR SATURDAY	6:00 AM THURSDAY BEFORE TO 6:00 AM MONDAY AFTER

HOLIDAY	FALLS ON	TEMPORARY LANE CLOSURES ARE NOT ALLOWED FROM
MEMORIAL DAY LABOR DAY	MONDAY	6:00 AM FRIDAY BEFORE TO 6:00 AM TUESDAY AFTER
	THURSDAY	6:00 AM WEDNESDAY BEFORE TO 6:00 AM MONDAY AFTER

EXCEPTIONS CAN ONLY BE MADE UNDER THE FOLLOWING CONDITIONS:

- EMERGENCY WORK
- WORK WITHIN LONG-TERM STATIONARY LANE/SHOULDER CLOSURES.
- SAFETY WORK THAT DOES NOT ADVERSELY IMPACT TRAFFIC MOBILITY AND HAS BEEN AUTHORIZED BY THE REGIONAL TRAFFIC ENGINEER.

NOTE: THE DEPARTMENT RESERVES THE RIGHT TO CANCEL ANY WORK OPERATIONS, INCLUDING LANE CLOSURES AND/OR TOTAL ROAD CLOSURES, THAT WOULD CREATE TRAFFIC DELAYS BY UNFORESEEN EVENTS. THE CONTRACTOR WOULD BE NOTIFIED AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO THE PROPOSED WORK.

NO.	DATE	DESCRIPTION	INT.
0	2023-07-27	INITIAL SUBMISSION	ENVY
1	2024-07-03	SUBMIT TO TOWNSHIP	ENVY

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811

Know what's below. Call before you dig.

DEVELOPER:

The Broadway Group
Commercial Real Estate Development

THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801

SEAL OF PROFESSIONAL:

PROFESSIONAL ENGINEER
STATE OF NEW YORK
DEPARTMENT OF STATE
DIVISION OF PROFESSIONAL SERVICES
RICHARD W. YOUNG
No. 07198
PROFESSIONAL ENGINEER

DESIGN PROFESSIONAL FIRM:

WMB
GEOLOGIC & ENGINEERING SERVICES, DPC

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID: **21-274.02-DY** DRAWN: **JAM**

DATE: **2023-07-27** DESIGN: **DWY**

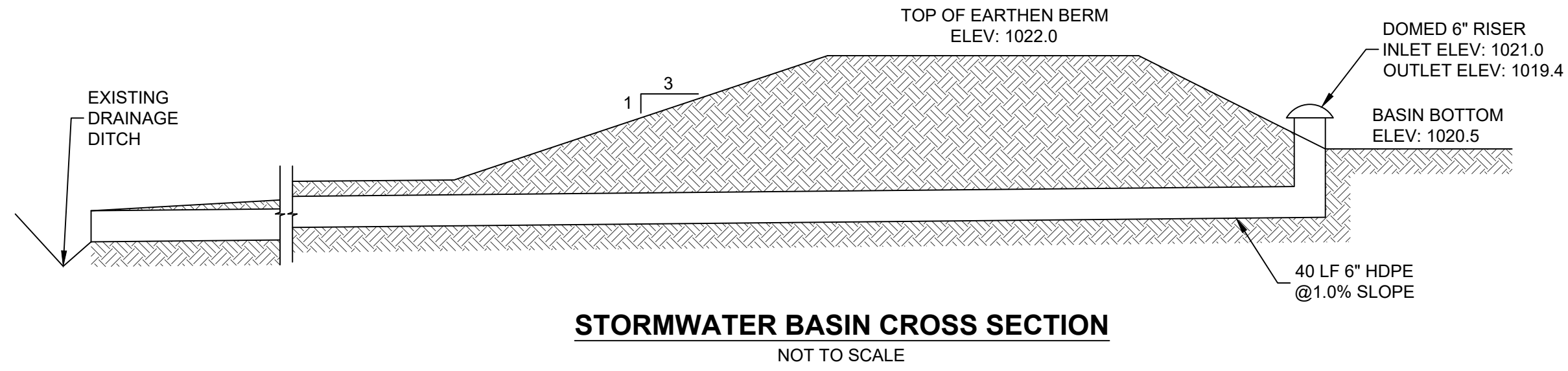
SCALE: **AS NOTED** CHECKED: **DWY**

PROJECT:

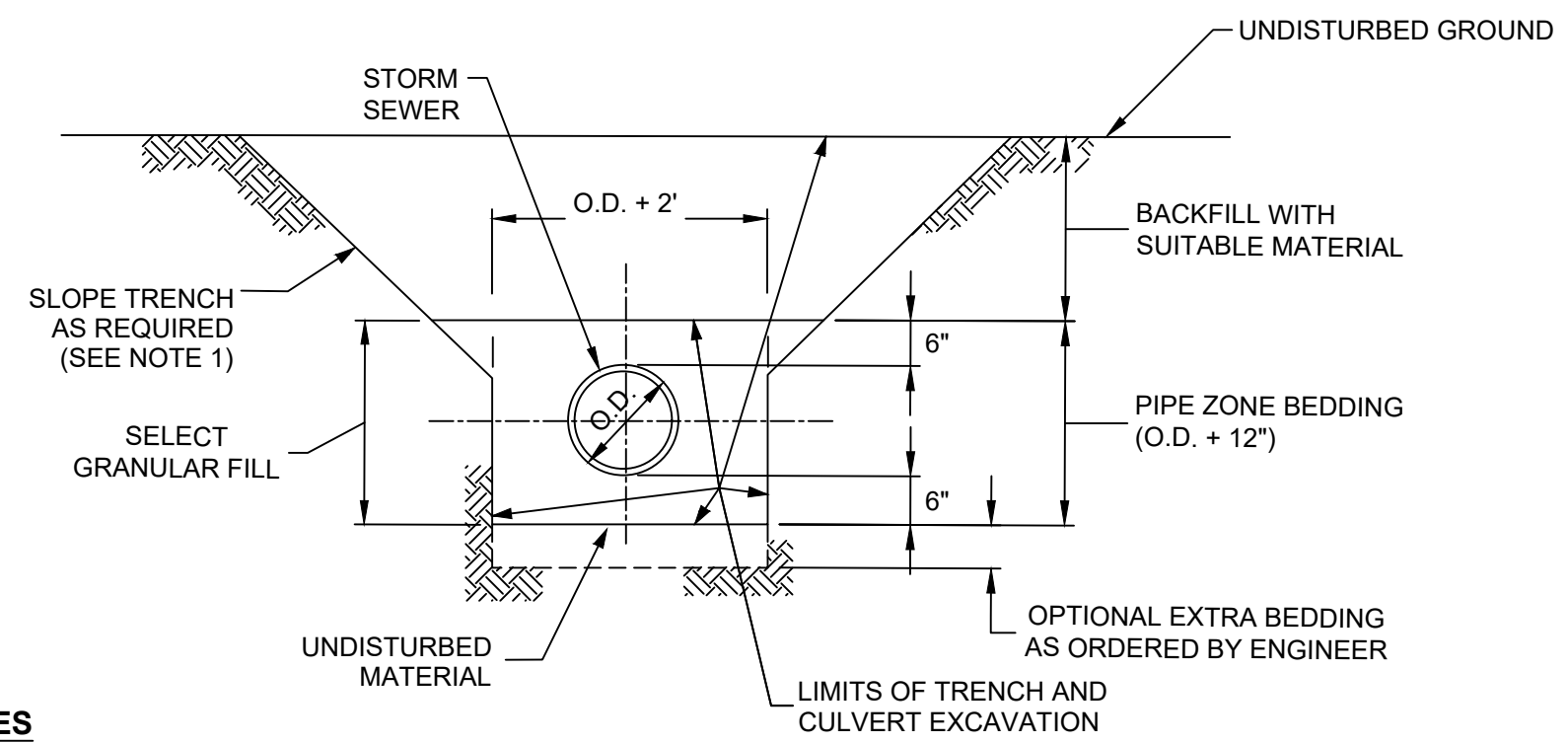
10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEEE COUNTY, NY

DRAWING TITLE: **WORK ZONE TRAFFIC CONTROL STANDARD SHEET 2**

PLAN STATUS: **DESIGN** SHEET NUMBER: **C-203**



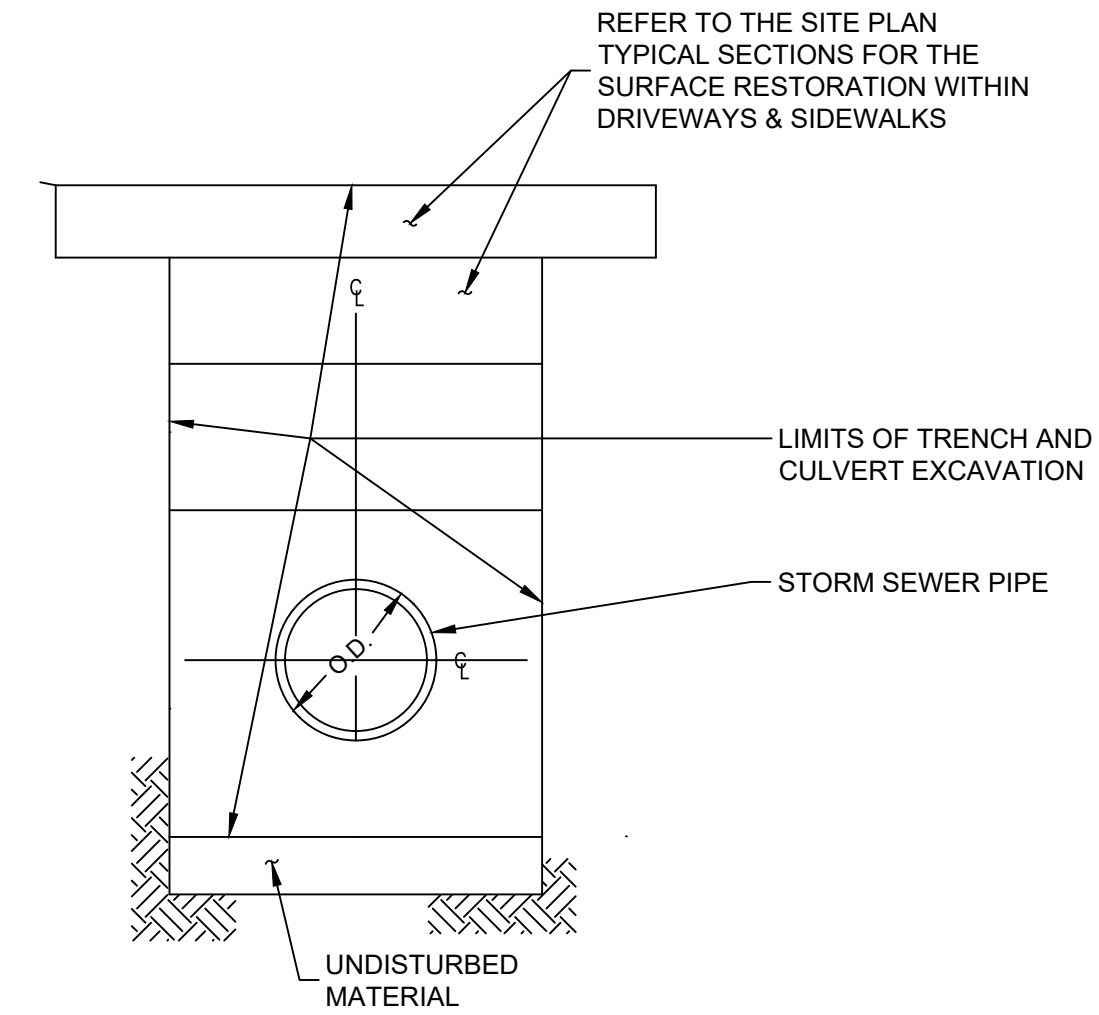
STORMWATER BASIN CROSS SECTION
NOT TO SCALE



NOTES

1. SLOPE, SHEETING & BRACING PER OSHA SPECIFICATIONS. TRENCH SHIELD OR SHEETING TO BE LIFTED ABOVE THE SPRING LINE. FOR EXCAVATIONS GREATER THAN 5', THE CONTRACTOR SHALL USE ONE OF THE FOLLOWING TREATMENT OPTIONS:
 - A. LAYBACK OF TRENCH AT 1:1.5 (H:V). NO ADDITIONAL PAYMENT WILL BE MADE FOR EXCAVATION OR BACKFILL BEYOND THE TYPICAL TRENCH WIDTH OF O.D. + 2'.
2. WHERE STORM SEWER CROSSES PREVIOUSLY INSTALLED SANITARY SEWER, WATER OR GAS MAIN, ETC. TRENCH SHALL BE EXCAVATED DOWN TO THE PREVIOUSLY LAID UTILITY AND BACKFILLED WITH #2 CRUSHED STONE COMPACTED IN 6" LIFTS TO INSURE ADEQUATE SUPPORT.
3. 6" STONE BEDDING, CONSISTING OF A BLENDING OF #1 AND #2 STONE, IS REQUIRED FOR SANITARY AND STORM SEWER INSTALLATIONS WITH CRUSHED STONE HAUNCHING TO A MINIMUM OF ONE-HALF OF THE PIPE DIAMETER ON THE SIDE OF THE PIPE.

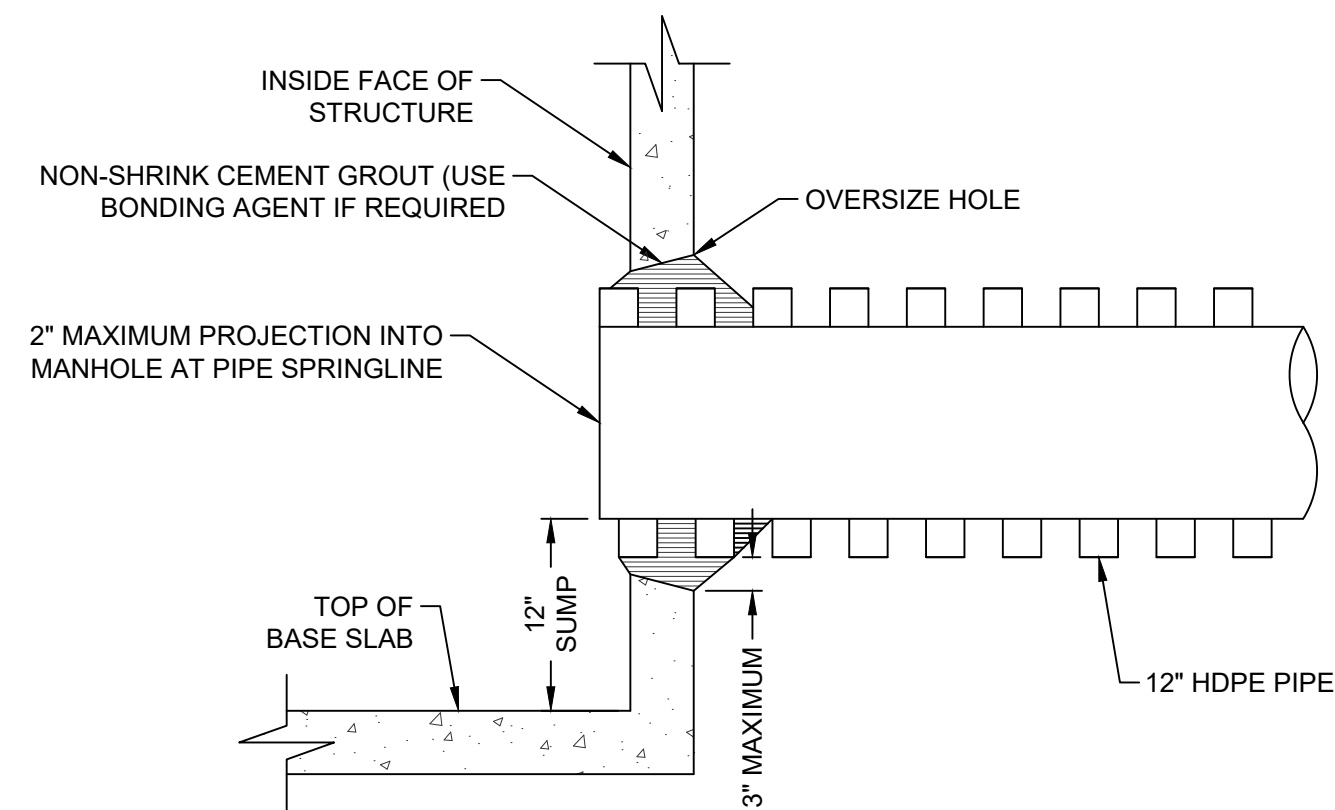
STORM SEWER TRENCH IN GRASS AREA
NOT TO SCALE



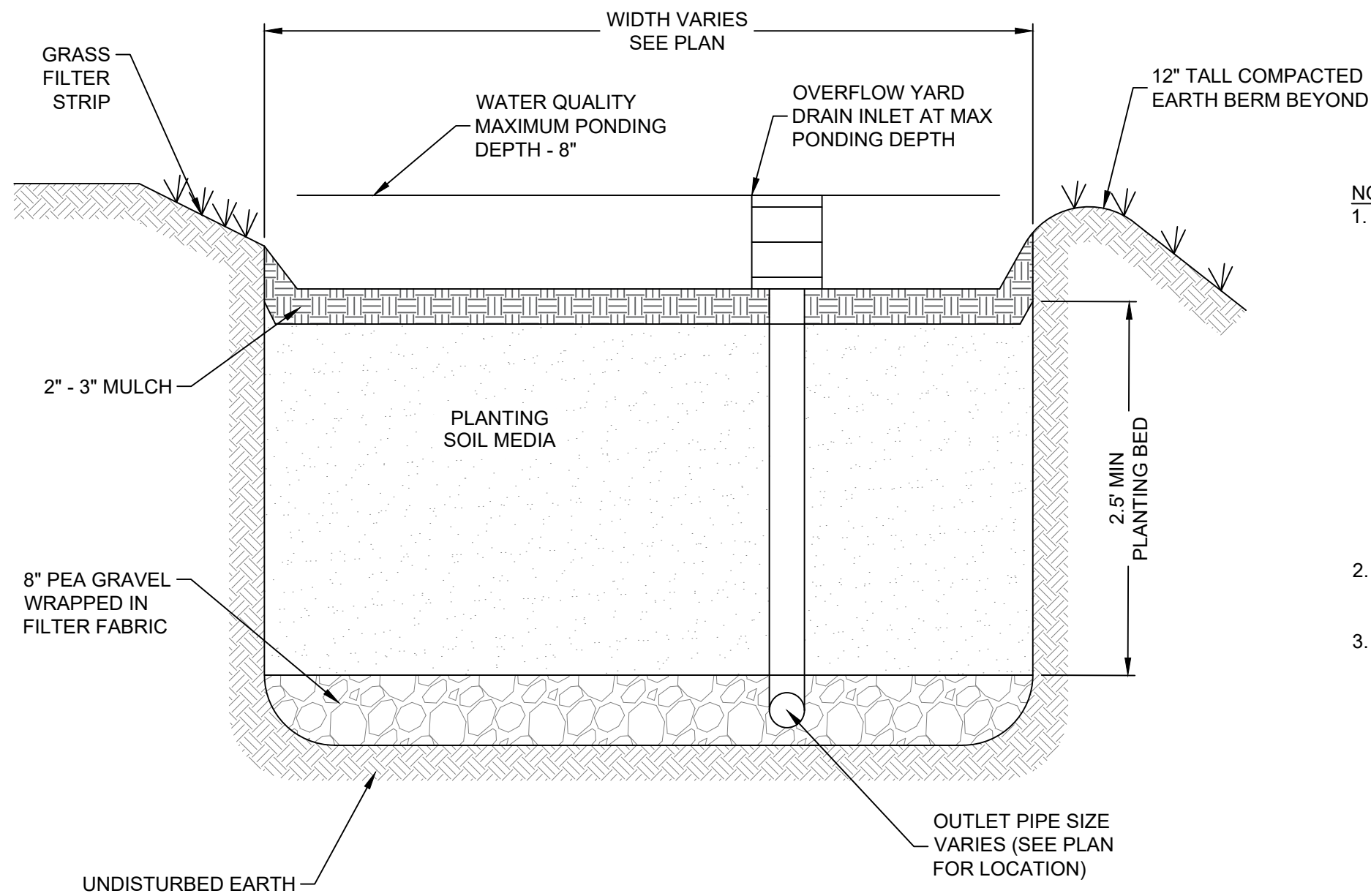
NOTES

1. BACKFILL WILL BE MADE WITH SELECT GRANULAR MATERIAL TO THE BOTTOM OF TEMPORARY PAVEMENT, OR TO THE BOTTOM OF SUBBASE.
2. SLOPE SHEETING & BRACING PER OSHA, SPECIFICATION. TRENCH SHIELD OR SHEETING TO BE LIFTED ABOVE THE SPRING LINE. FOR EXCAVATIONS GREATER THAN 5', THE CONTRACTOR SHALL USE ONE OF THE FOLLOWING TREATMENT OPTIONS:
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STORM SEWER TRENCH IN PAVED AREA
NOT TO SCALE



PIPE CONNECTION TO DRAINAGE STRUCTURE
NOT TO SCALE



TYPICAL BIORETENTION SECTION
NOT TO SCALE

NOTES:

1. SOIL COMPOSITION:
 - 35-60% SAND*
 - 30-55% SILT
 - 10-25% CLAY

SOIL WILL BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1\"/>
 - *SAND SUBSTITUTION SUCH AS DIABASE, GRAYSTONE #10, OR ROCK DUST ARE NOT ACCEPTABLE. NO CALCIUM CARBONATE OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE.
2. MULCH: SINGLE OR DOUBLE SHREDDED, WELL COMPOSTED, UNCOLORED HARDWOOD MULCH AGED 6 MONTHS.
3. SOIL FOR EACH BIORETENTION AREA SHALL MEET THE FOLLOWING CRITERIA:

PH RANGE **	5.2 - 7.0
ORGANIC MATTER	1.5 - 4.0%
MAGNESIUM	35 LBS/ACRE
PHOSPHOROUS	75 LBS/ACRE
POTASSIUM	95 LBS/ACRE
SOLUBLE SALTS	NOT TO EXCEED 500 PPM

**IF PH FALLS OUT OF ACCEPTABLE RANGE, PH OF SOIL MAY BE MODIFIED WITH LIME (HIGHER PH), OR WITH IRON SULFATE PLUS SULFUR (LOWER PH)

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DEVELOPER:

THE BROADWAY GROUP, LLC
216 WESTSIDE SQUARE
HUNTSVILLE, AL 35801

SEAL OF PROFESSIONAL:

DESIGN PROFESSIONAL FIRM:

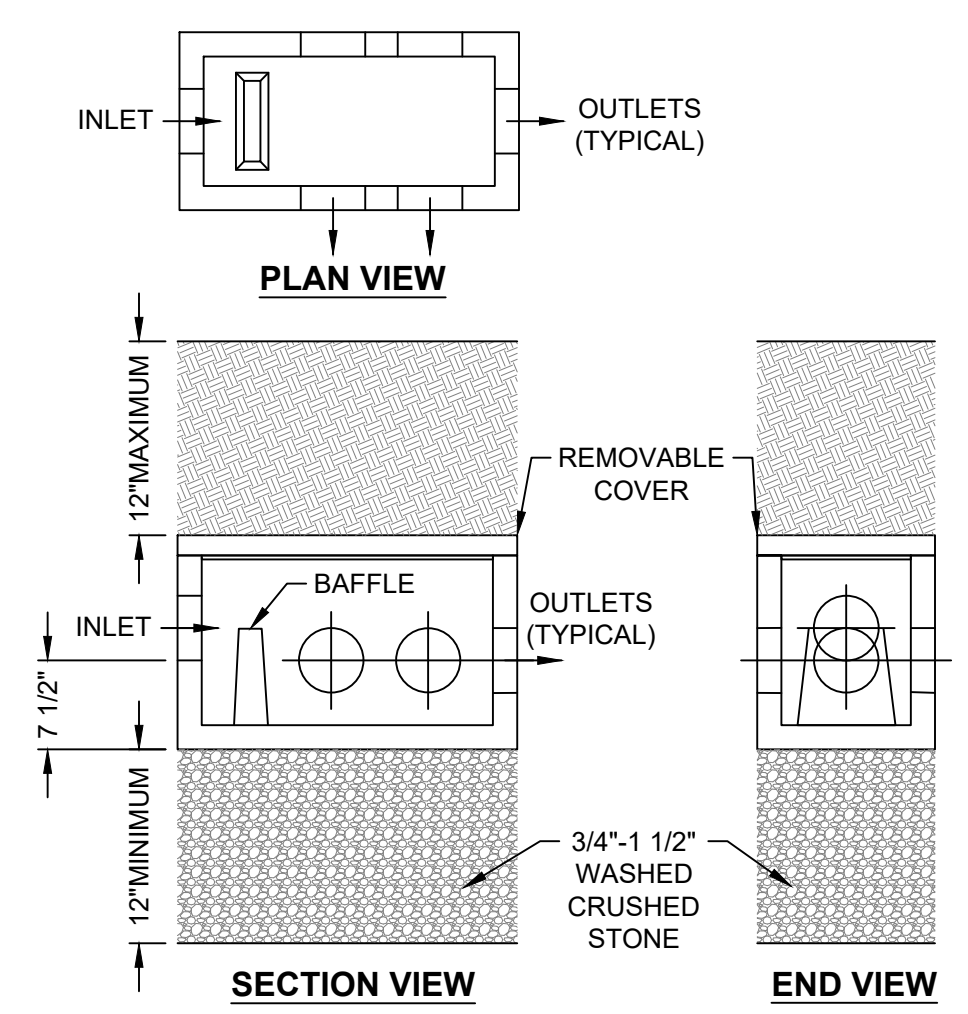
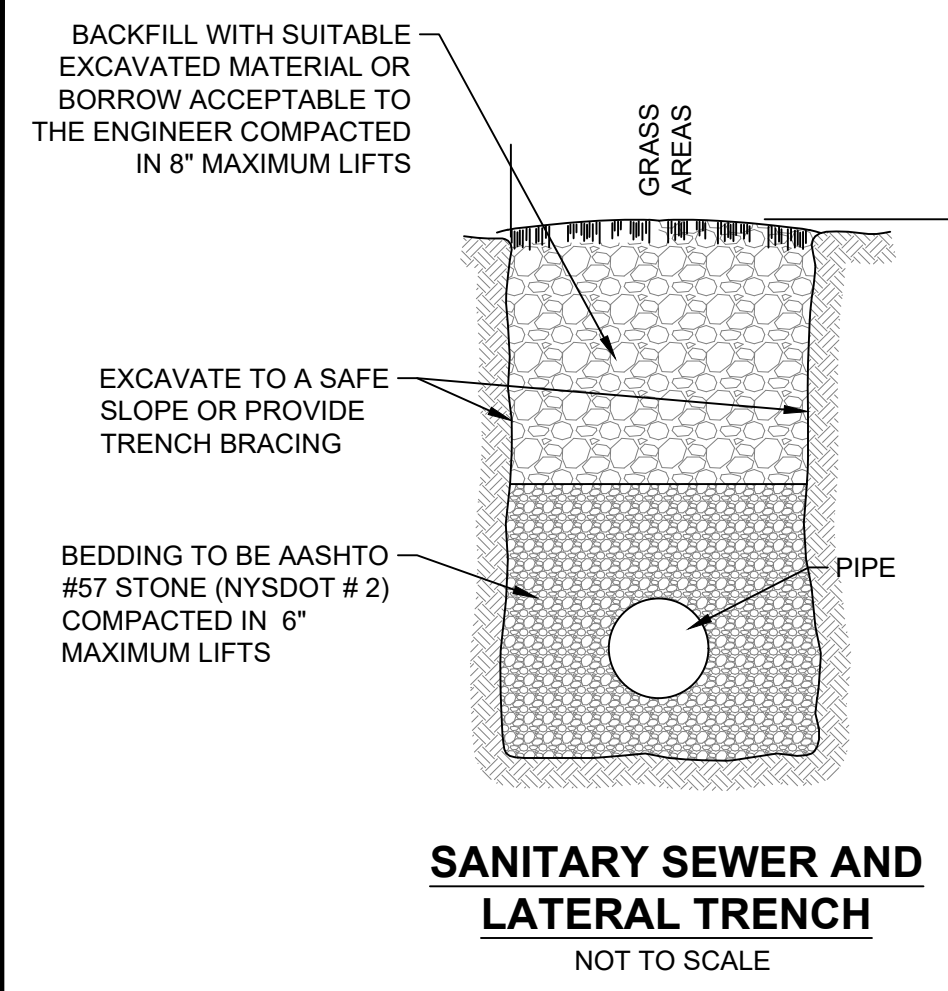
WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID: 21-274.02-DY	DRAWN: JAM
DATE: 2023-07-27	DESIGN: DWY
SCALE: AS NOTED	CHECKED: DWY

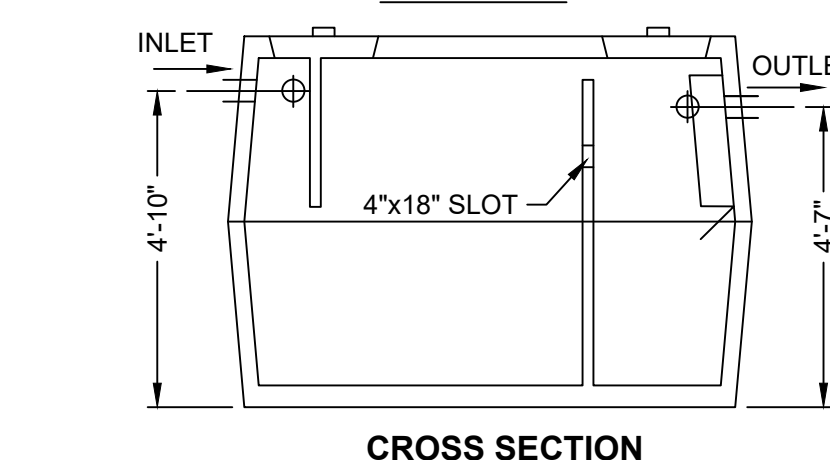
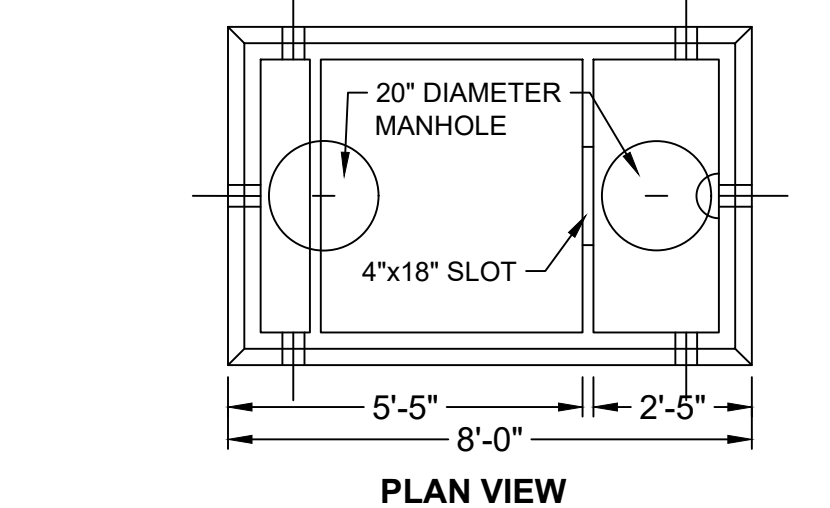
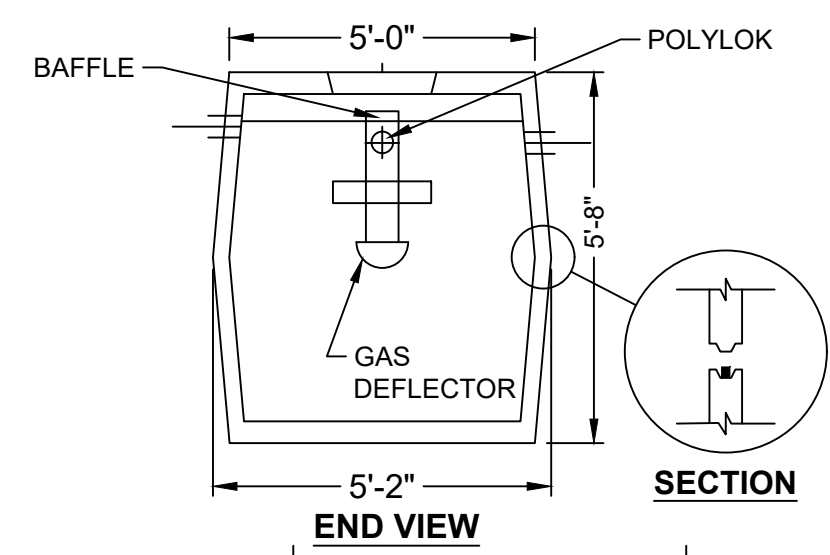
PROJECT:
10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEE COUNTY, NY

DRAWING TITLE:
STORMWATER DETAILS

PLAN STATUS: DESIGN	SHEET NUMBER: C-204
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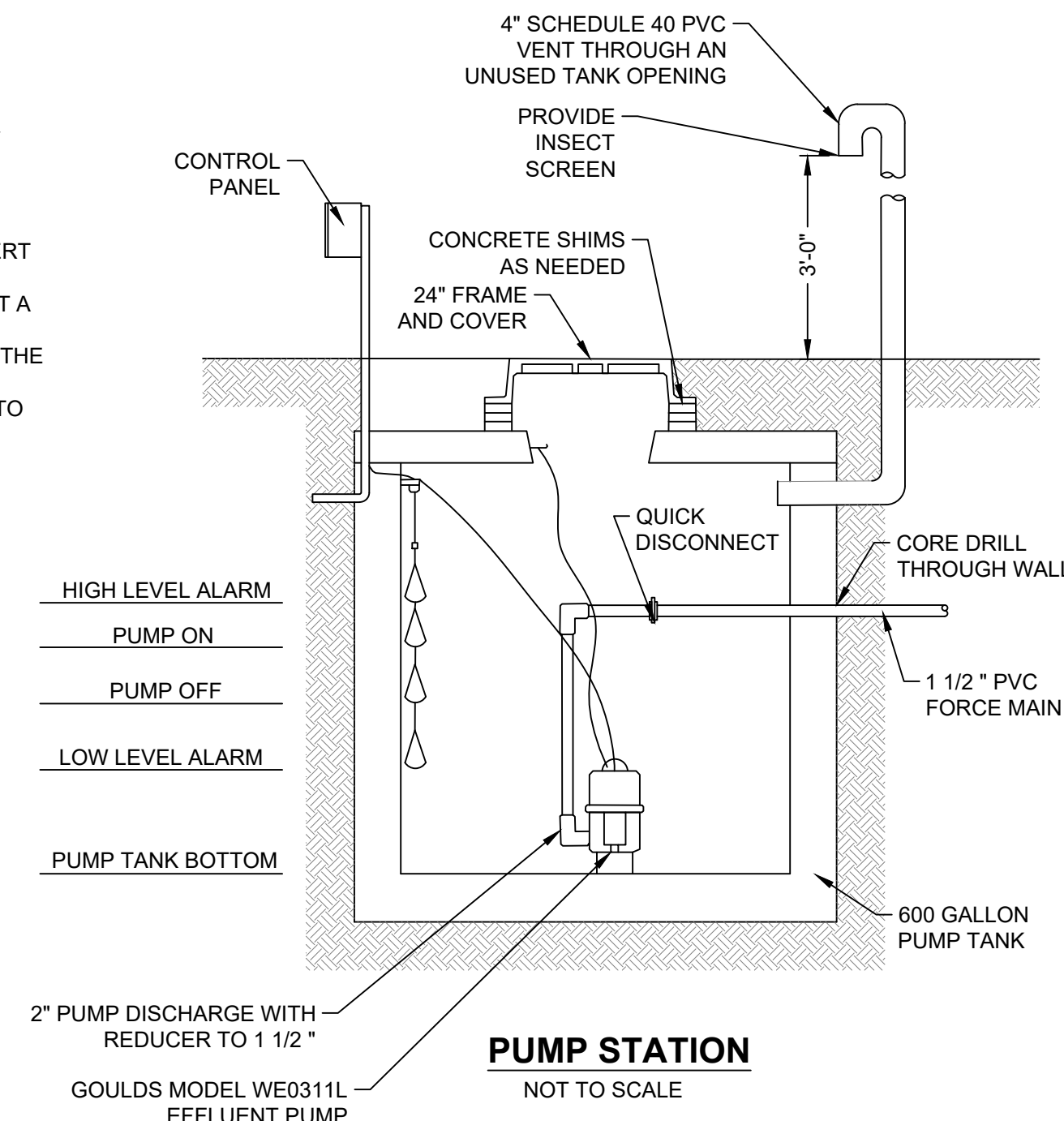
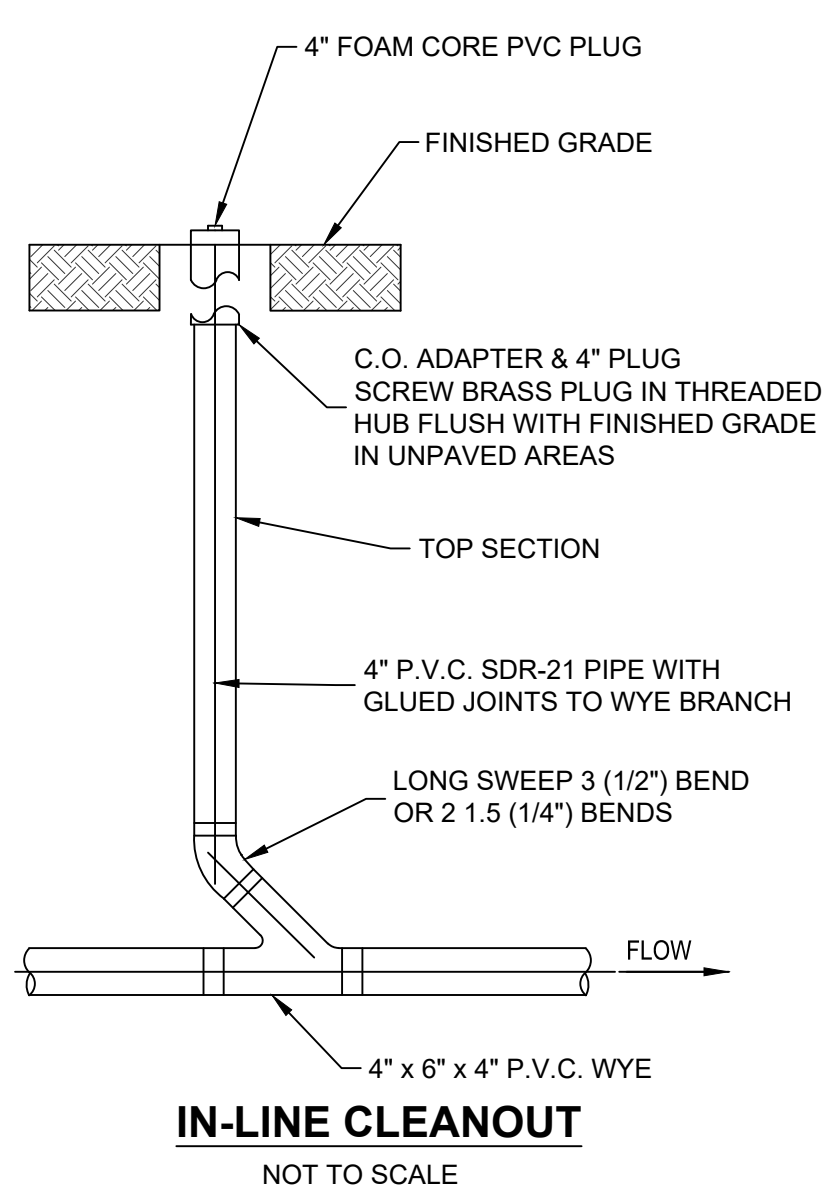
- NOTES:**
- DISTRIBUTION BOX TO BE AS MANUFACTURED BY ZEISER-WILBERT VAULT COMPANY OR APPROVED EQUAL. BOX TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
 - PIPE JOINTS TO BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.
 - INVERT ELEVATIONS OF ALL OUTLET PIPES MUST BE EQUAL. USE OR FLOW EQUALIZATION DEVICES IS RECOMMENDED.
 - THE PIPE FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX INLET MUST BE SLOPED AT LEAST 1/8" PER FOOT.
 - THE SLOPE OF OUTLET PIPES (HEADER PIPES) BETWEEN THE DISTRIBUTION BOX AND DISTRIBUTION LATERALS MUST BE SLOPED AT LEAST 1/32" PER FOOT.
 - BAFFLE REQUIRED FOR SIPHON OR AUTOMATIC DOSING OS IF INLET PIPE EXCEEDS 1/2" PER FOOT.
 - BAFFLE CAN BE BUILT IN ON A PIPE ELBOW OR TEE.



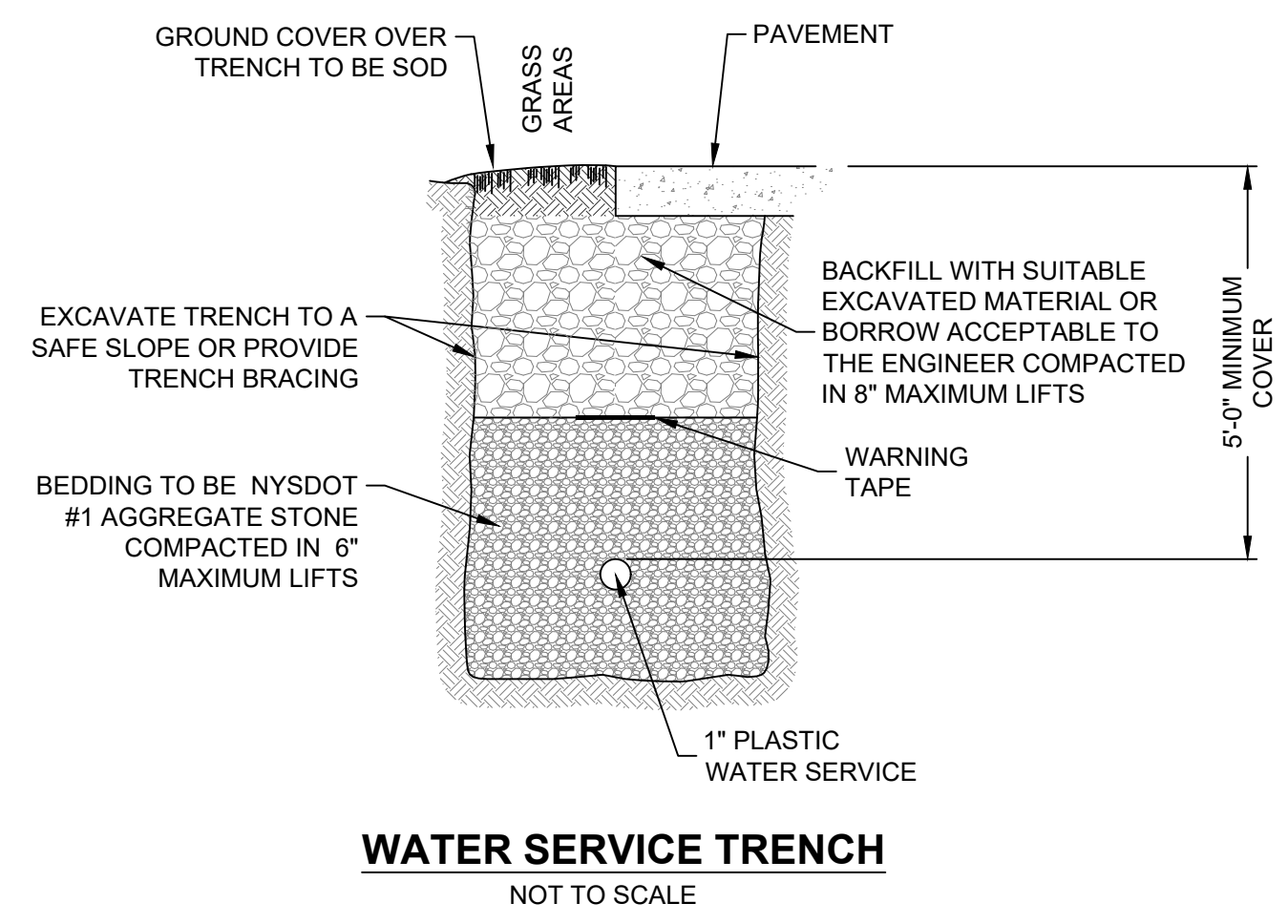
PUMP STATION ELEVATIONS	
TOP OF FRAME	722.50
EXISTING GRADE FLOOR	722.25
4" LATERAL INV.	714.00
1 1/2" FORCE MAIN OUTLET INVERT	718.31
	718.50
LEVEL CONTROLS:	
HIGH LEVEL ALARM	716.50
PUMP ON	716.25
PUMP OFF	716.00
LOW LEVEL ALARM	715.50
	715.25

1000 GALLON DUAL COMPARTMENT SEPTIC TANK NOT TO SCALE

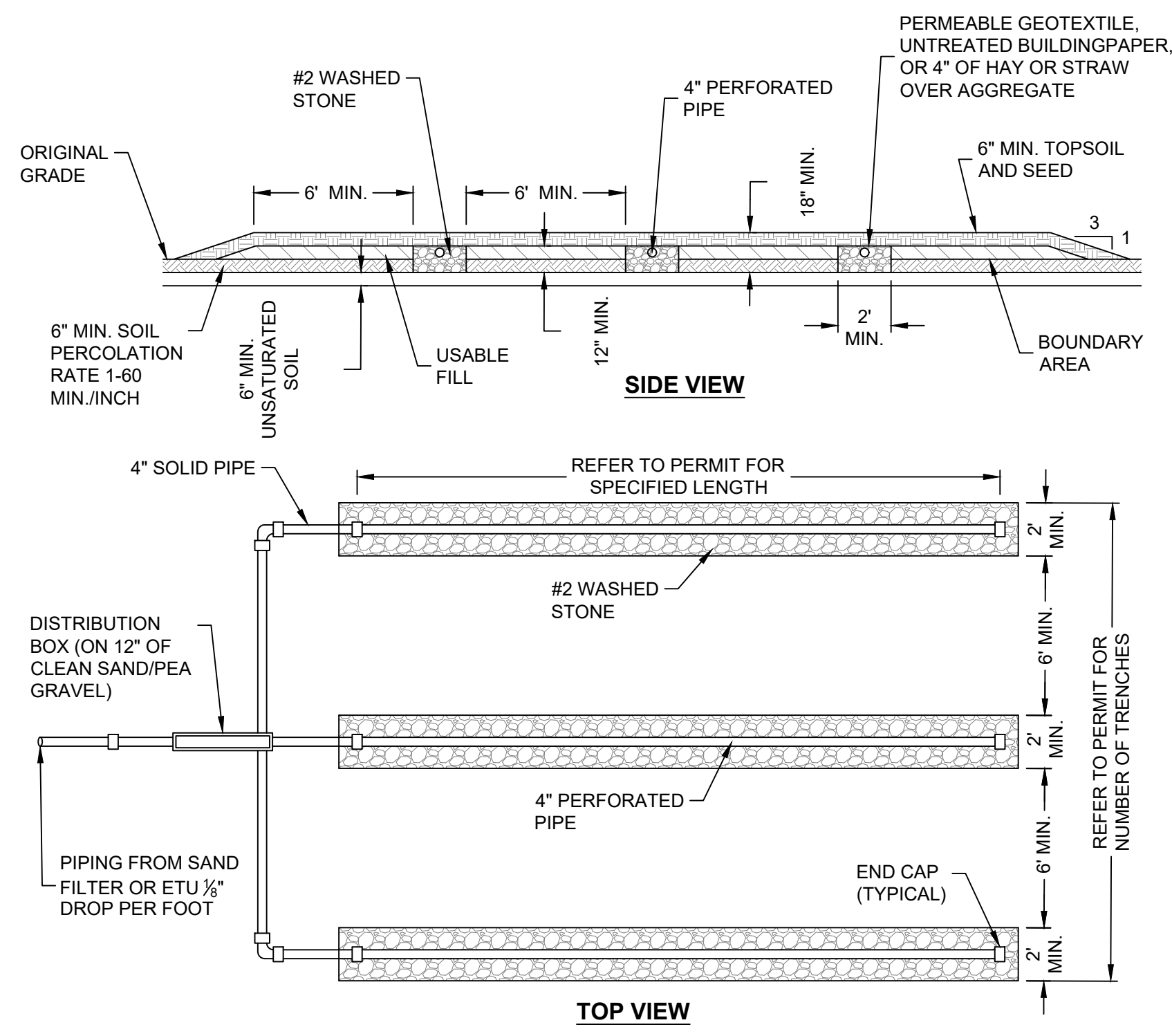
- NOTES:**
- SEPTIC TANK TO BE AS MANUFACTURED BY ZEISER-WILBERT VAULT COMPANY OR APPROVED EQUAL.
 - CONNECTIONS TO COMPARTMENTS SHALL BE LOCATED AT A DISTANCE BELOW THE LIQUID LEVEL EQUAL TO 1/3 THE DISTANCE (D) BETWEEN THE INVERT OF THE INLET AND THE BOTTOM OF THE TANK.
 - AT LEAST ONE ACCESS MANHOLE SHALL BE PROVIDED INTO EACH COMPARTMENT.



- NOTES:**
- PUMP TANK TO BE AS MANUFACTURED BY LAKELANDS CONCRETE PRODUCTS, INC. OR APPROVED EQUAL.
 - CONTROL PANEL TO BE WEATHER PROOF AND MOUNTED ON A CONCRETE PAD.
 - FINISHED GRADE TO BE SLOPED AWAY FROM MANHOLE COVER IN AREA SURROUNDING PUMP STATION ACCESS.

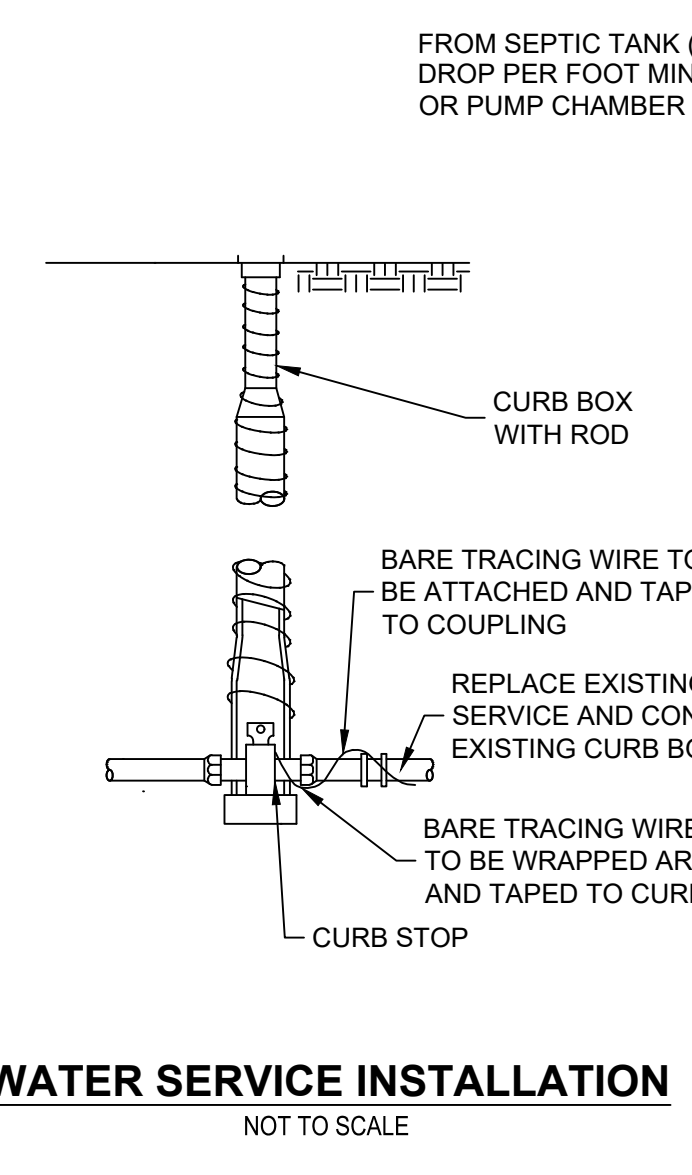


- NOTES:**
- WATER SERVICE TO BE BURIED WITH A MINIMUM COVER DEPTH OF FIVE FEET.
 - CONTRACTOR TO KEEP TRENCH FREE OF WATER AND PROVIDE A STABLE BASE FOR THE PIPE BEDDING.



DOWNSTREAM MODIFIED ABSORPTION TRENCHES (DMAT) NOT TO SCALE

- NOTE:**
- REFER TO SEPARATION DISTANCES TABLE FOR MORE INFORMATION ON VERTICAL SEPARATION DISTANCES TO BEDROCK.
 - TRENCHES SHOULD BE AS LONG AS POSSIBLE TO MINIMIZE PARALLEL TRENCHES.
 - DISTRIBUTOR LENGTH SHALL NOT EXCEED 60 FEET.
 - DISTRIBUTORS IN AGGREGATE MUST BE SLOPED 1/16" TO 1/32" PER FOOT.
 - USABLE FILL MUST BE SIMILAR TO THE INSITU PERMEABLE SOIL.
 - SYSTEM DEPTH (INCLUDING A MINIMUM OF 6" OF PERMEABLE COVER) MUST BE AT LEAST 18", WITH A MINIMUM OF 12" OF AGGREGATE CONTACTING PERMEABLE SOIL SIDEWALL OF TRENCH.
 - SEE PERMIT FOR MAXIMUM BOTTOM DEPTH OF TRENCHES.



NYS DOT REGION 4 UTILITY PERMIT NOTES

ROAD PAVEMENT, SHOULDER AND DRAINAGE ARE NOT TO BE DISTURBED OR UNDERMINED UNLESS INDICATED OTHERWISE IN THE PLANS.

SUITABLE NON-FROZEN, NON-SATURATED BACKFILL TO BE USED AND PLACED IN 6" COMPACTED LIFTS.

PAVEMENT TO BE MAINTAINED UNTIL A PERMANENT REPAIR CAN BE MADE.

PAVEMENT TO BE REPLACED IN KIND OR AS SPECIFIED ON ATTACHED PLANS.

ALL DISTURBED GRASS AREAS WITHIN THE R.O.W. ARE TO BE FINE GRADED, 4" TOPSOIL PLACED AND TURF ESTABLISHED.

NOTE

ROAD PLATES SHALL NOT BE USED DURING THE SNOW AND ICE SEASON (NOVEMBER 1ST THROUGH APRIL 1ST). DURING THE MONTHS OF OCTOBER AND APRIL, CALL THE WORK AREA JURISDICTIONAL NYS DOT TRANSPORTATION MAINTENANCE RESIDENCY WITH PLATE LOCATIONS. ROAD PLATES SHALL BE PINNED AND RAMPED. A "STEEL PLATE AHEAD" SIGN (W8-24) SHALL BE INSTALLED IN ADVANCE OF THE PLATE IN ACCORDANCE WITH TABLE NY9H-3 ON STANDARD SHEET 619-11. IF THE SURFACE OF THE PLATE IS 1" OR GREATER ABOVE/BELOW THE SURROUNDING PAVEMENT, A "BUMP" SIGN (W8-1) SHALL BE INSTALLED BETWEEN THE PLATE AND "STEEL PLATE AHEAD" SIGN IN ACCORDANCE WITH TABLE NY9H-3 ON STANDARD SHEET 619-11 AND A BARREL WITH A TYPE A FLASHER SHALL BE PLACED ON THE SHOULDER AT THE PLATE.

WINTER ASPHALT PAVEMENT AND SHOULDER RESTORATION

EXCAVATION BACKFILL SHALL BE WITH NO. 2 STONE (NOT CRUSHER RUN), ITEM 623.12, PLACED TO SIX INCHES (6") BELOW THE EXISTING PAVEMENT SURFACE. THE REMAINING SIX INCHES (6") SHALL HAVE CONCRETE PLACED TO MATCH EXISTING ADJACENT PAVEMENT GRADE AND SHALL HAVE A GOOD, SMOOTH, NON-POLISHED RIDING SURFACE.

IN THE SPRING, WHEN ASPHALT PLANTS OPEN, THE CONCRETE AND STONE SHALL BE REMOVED TO THE EXISTING BOTTOM OF THE SUBBASE IN ORDER TO PERFORM FINAL RESTORATION PER PREVIOUSLY APPROVED NYS DOT PAVEMENT RESTORATION PROCEDURES.

TEST PITS

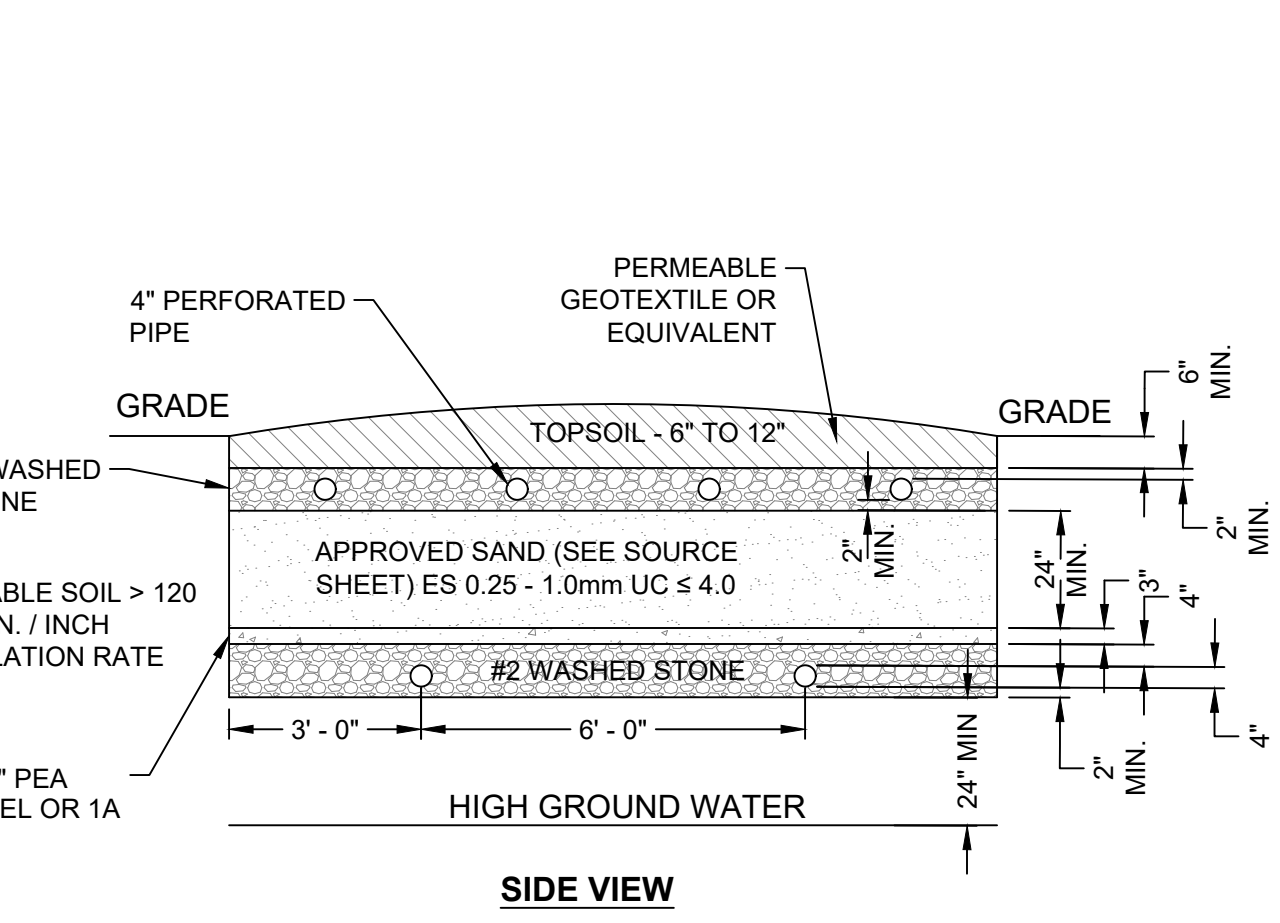
ALL TEST PITS IN THE PAVEMENT SHALL BE COMPLETED BY AN 18" SQUARE/ROUND VACUUM EXCAVATION.

EXCAVATION SUPPORT SYSTEM REQUIREMENTS

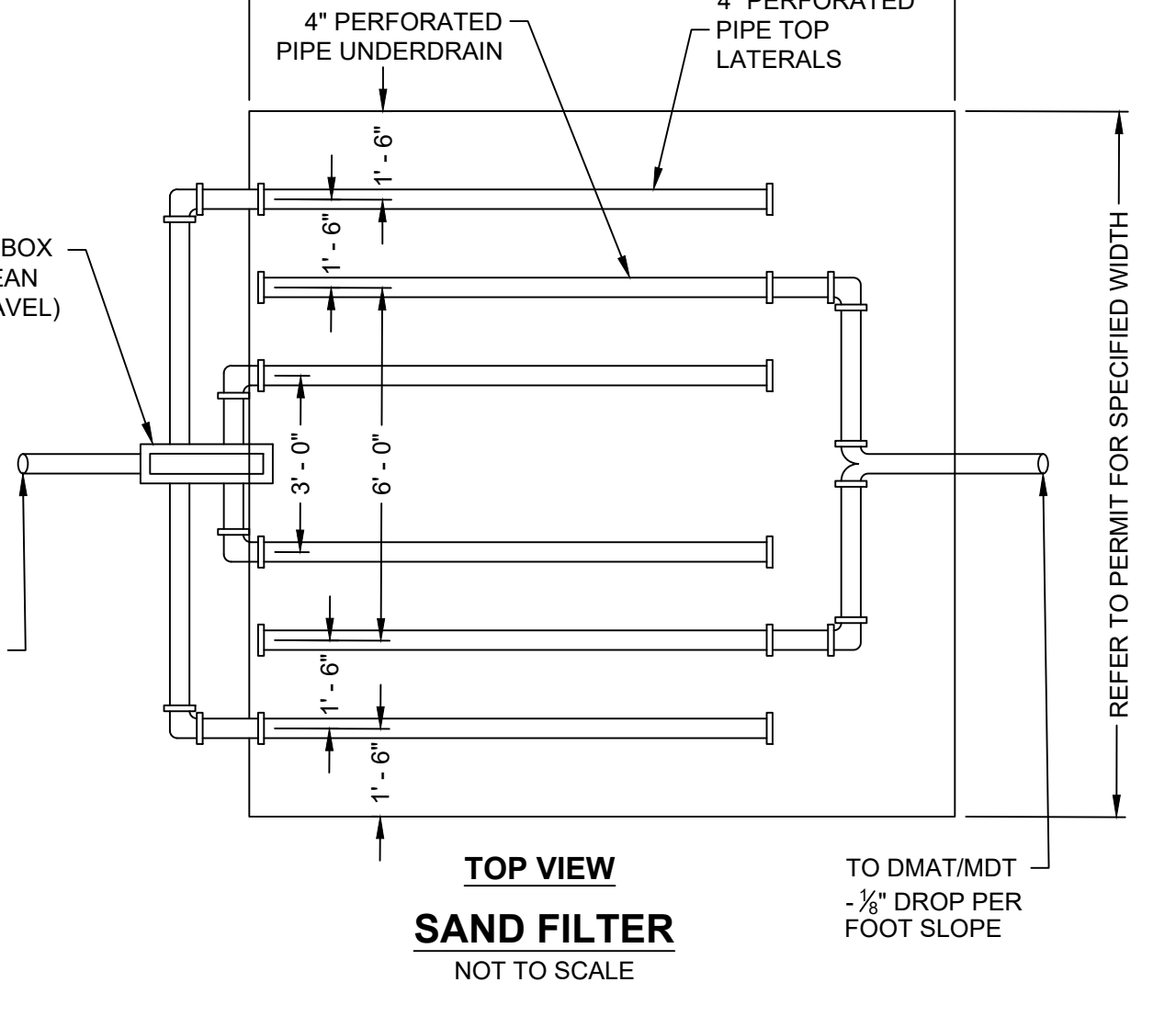
ANY EXCAVATION 5 FEET OR MORE IN DEPTH SHALL UTILIZE A SHIELDS AND SHORING OR SHEETING SYSTEM WHICH PROVIDES DIRECT CONTACT AND SUPPORT OF THE EXCAVATION SIDES. THE SYSTEM SHALL ACCOMMODATE ANY ASSOCIATED SURCHARGE LOADS AND SHALL BE SUBMITTED TO NYS DOT'S REGIONAL GEOTECHNICAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE.

A SLOPING (LAYBACK) OPTION WILL NOT BE ALLOWED.

SHIELDS AND SHORING OR SHEETING SYSTEM REQUIREMENTS DO NOT PERTAIN TO TEST PITS WHICH ARE 18" OR LESS IN DIAMETER.



SAND FILTER NOT TO SCALE

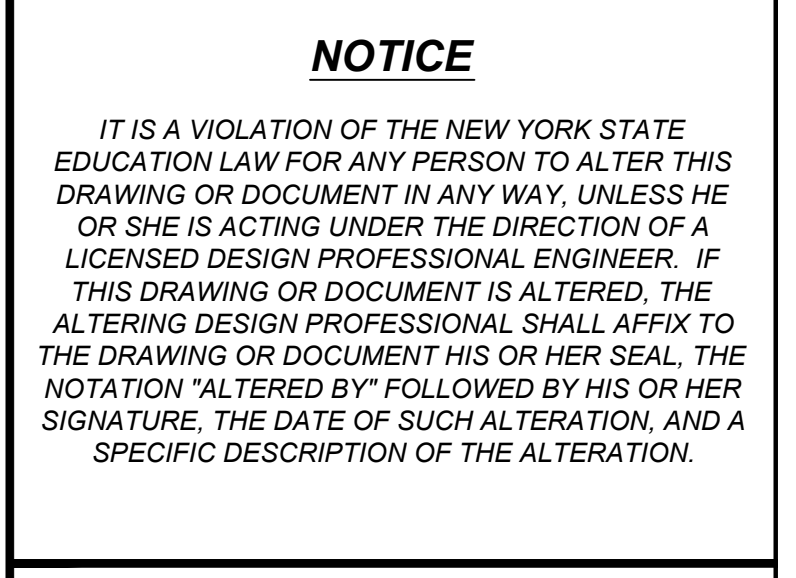


- NOTES:**
- A SINGLE CENTER UNDERDRAIN MAY BE USED WHEN THE FILTER WIDTH DOES NOT EXCEED 12 FEET.
 - UNDERDRAIN LINES TO BE CENTERED BETWEEN DISTRIBUTOR LINES.
 - ENDS OF ALL PIPES MUST BE CAPPED.
 - PERFORATED TOP LATERALS SHALL HAVE 1/8" DROP PER FOOT SLOPE FOR GRAVITY SYSTEMS.
 - INSTALL PERFORATED TOP LATERALS LEVEL FOR PUMPED/DOSING SYSTEMS.
 - PERFORATED UNDERDRAIN PIPING SHALL HAVE 1/8" TO 1/4" DROP PER FOOT SLOPE.

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216 WESTSIDE SQUARE
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DESIGN PROFESSIONAL FIRM:

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GEOLOGIC & ENGINEERING SERVICES, DPC

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284 ROUTE 17C
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PROJECT ID: **21-274.02-DY** DRAWN: **JAM**

DATE: **2023-07-27** DESIGN: **DWY**

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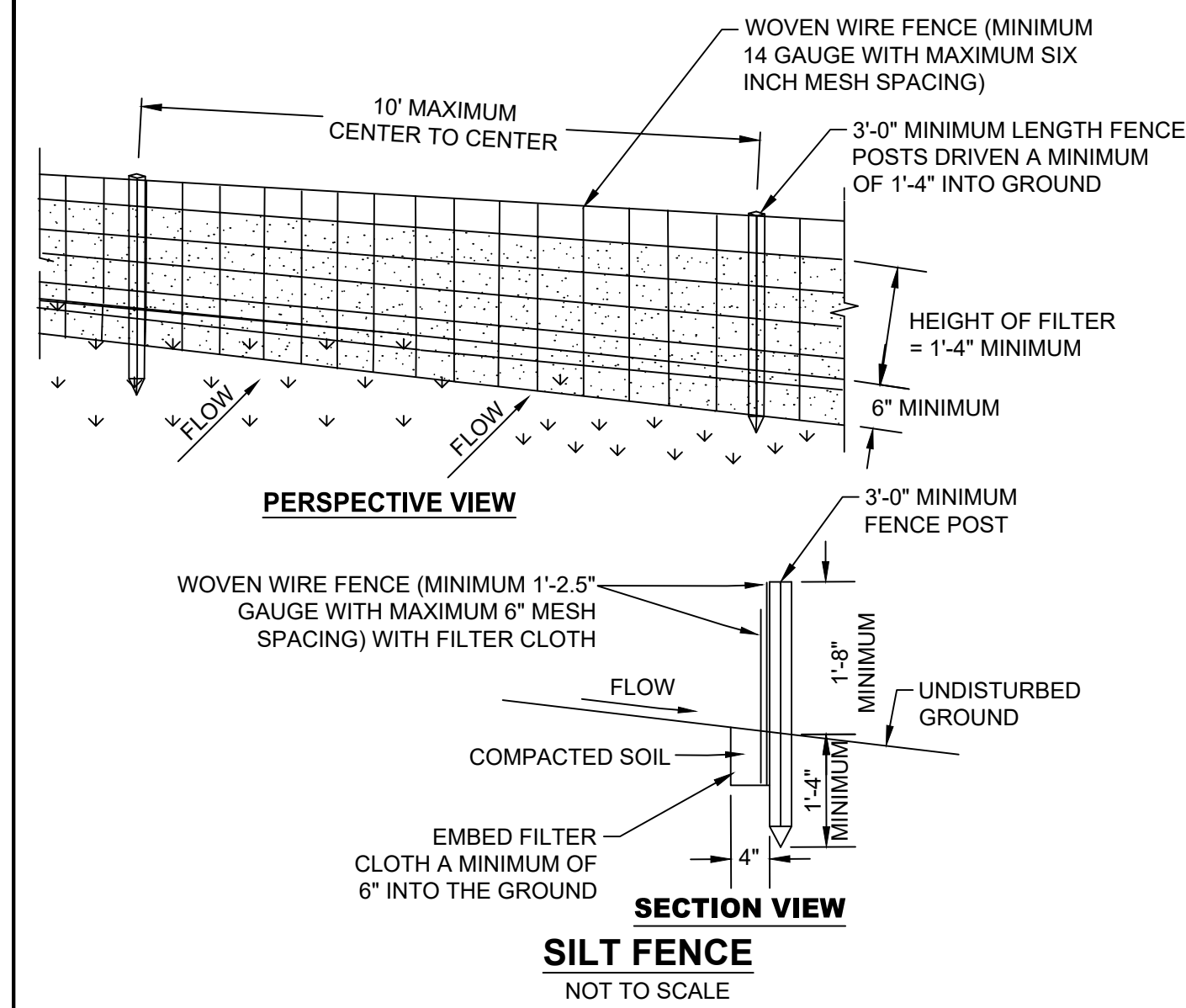
PROJECT:

10,566 SF RETAIL BUILDING
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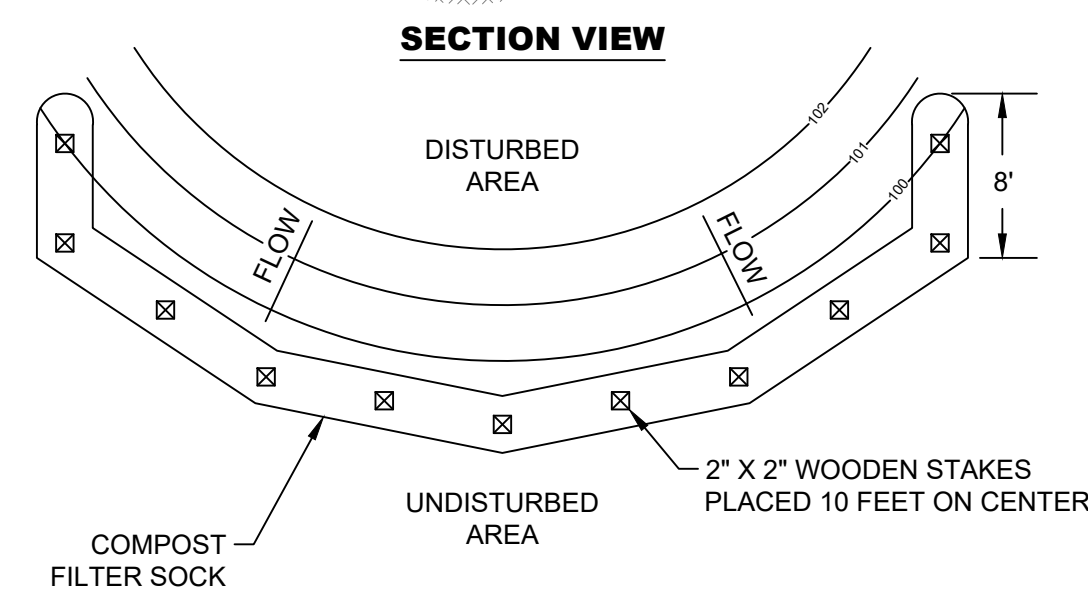
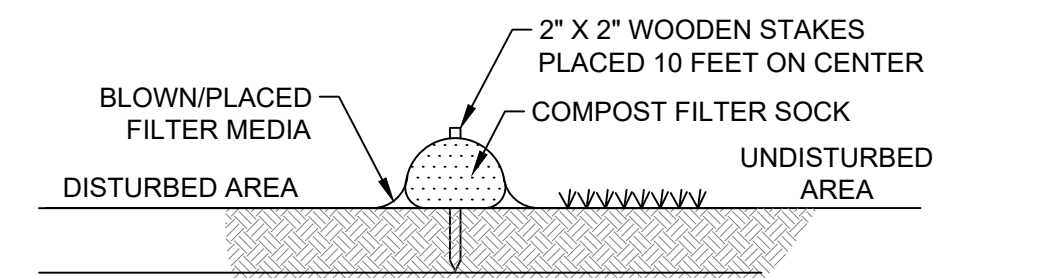
DRAWING TITLE:

UTILITY DETAILS

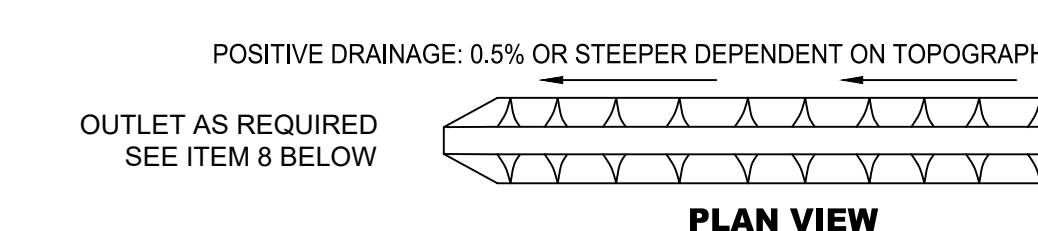
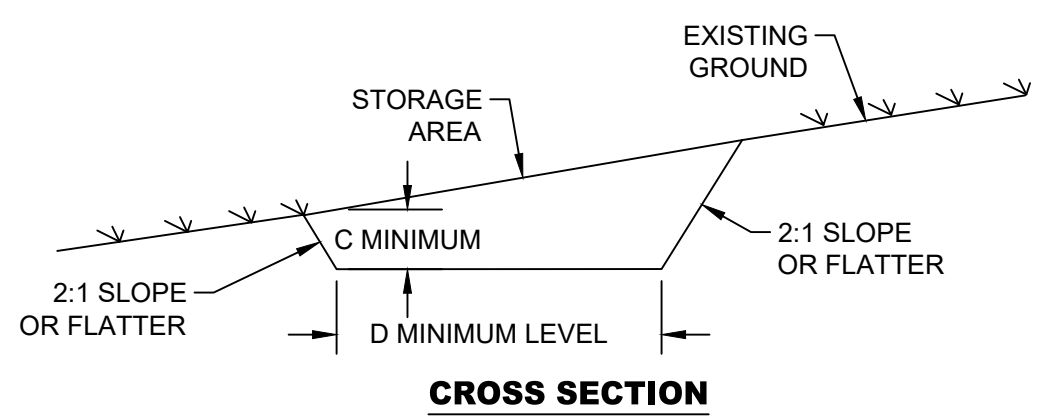
PLAN STATUS: **DESIGN** SHEET NUMBER: **C-210**



- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



COMPOST FILTER SOCK
NOT TO SCALE

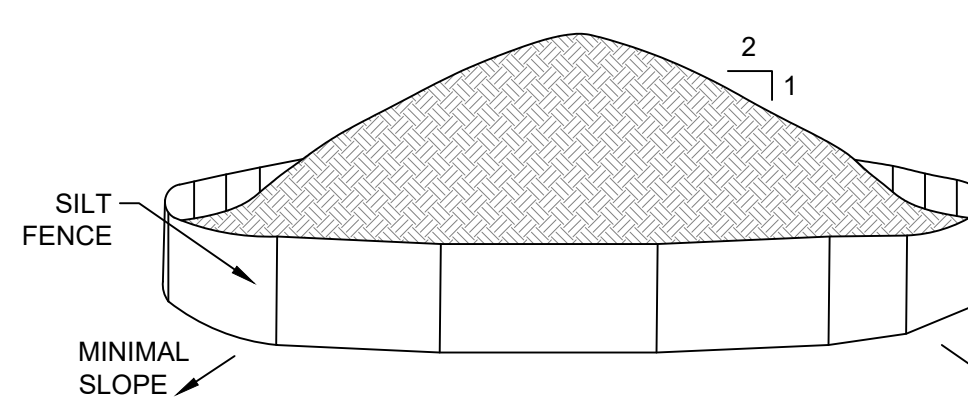


CONSTRUCTION DITCH
NOT TO SCALE

- ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- THE DITCH SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.
- STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

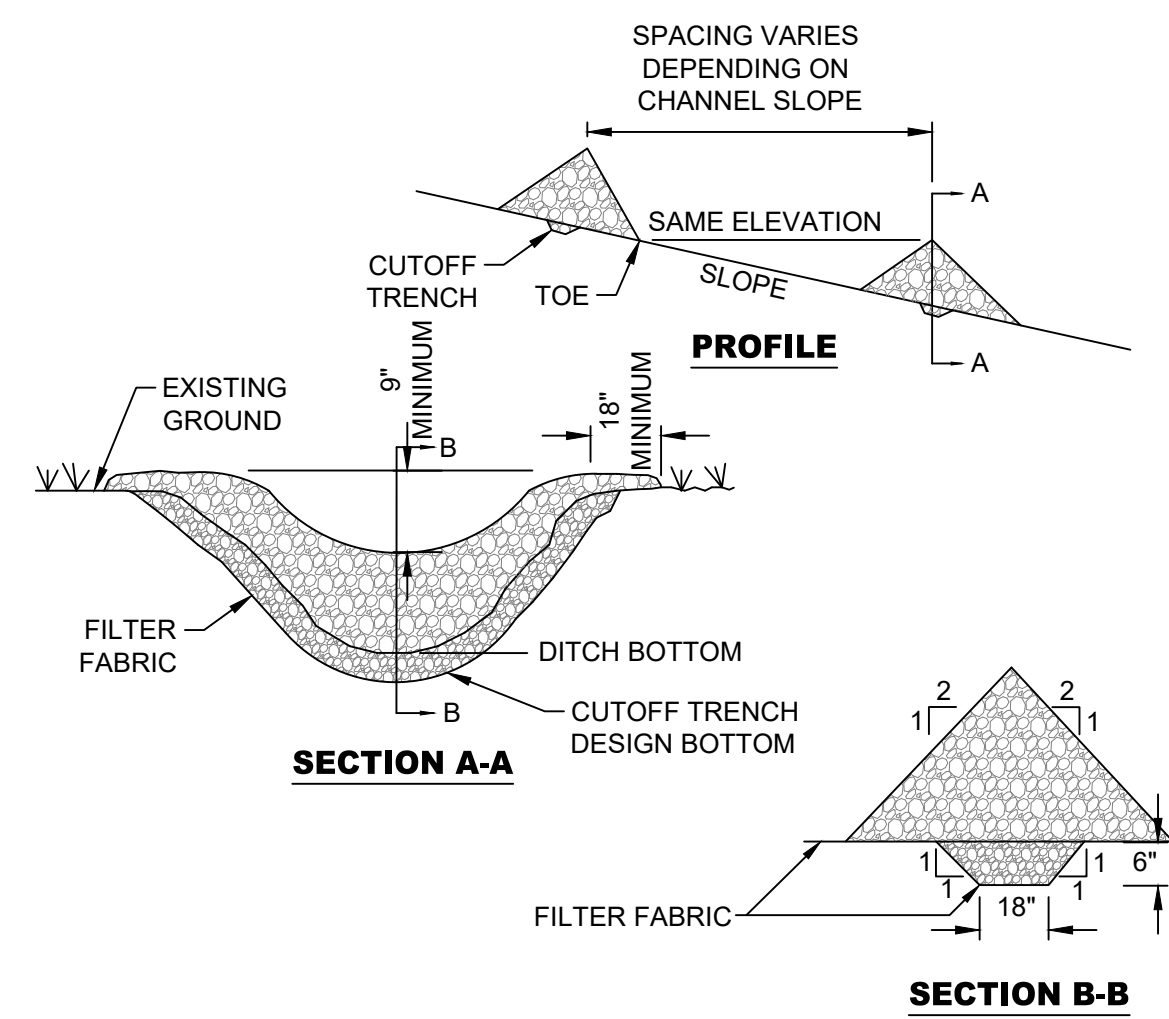
TYPE OF TREATMENT	CHANNEL GRADE	A (5 ACRES OR LESS)	B (5-10 ACRES)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED AND COVER USING RECP
3	5.1-8.0%	SEED AND COVER WITH RECP	LINED WITH 4-8" RIP-RAP OR GEOTEXTILE
4	8.1-10.0%	LINED WITH 4-8" RIP-RAP OR GEOTEXTILE	SITE SPECIFIC DESIGN

- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



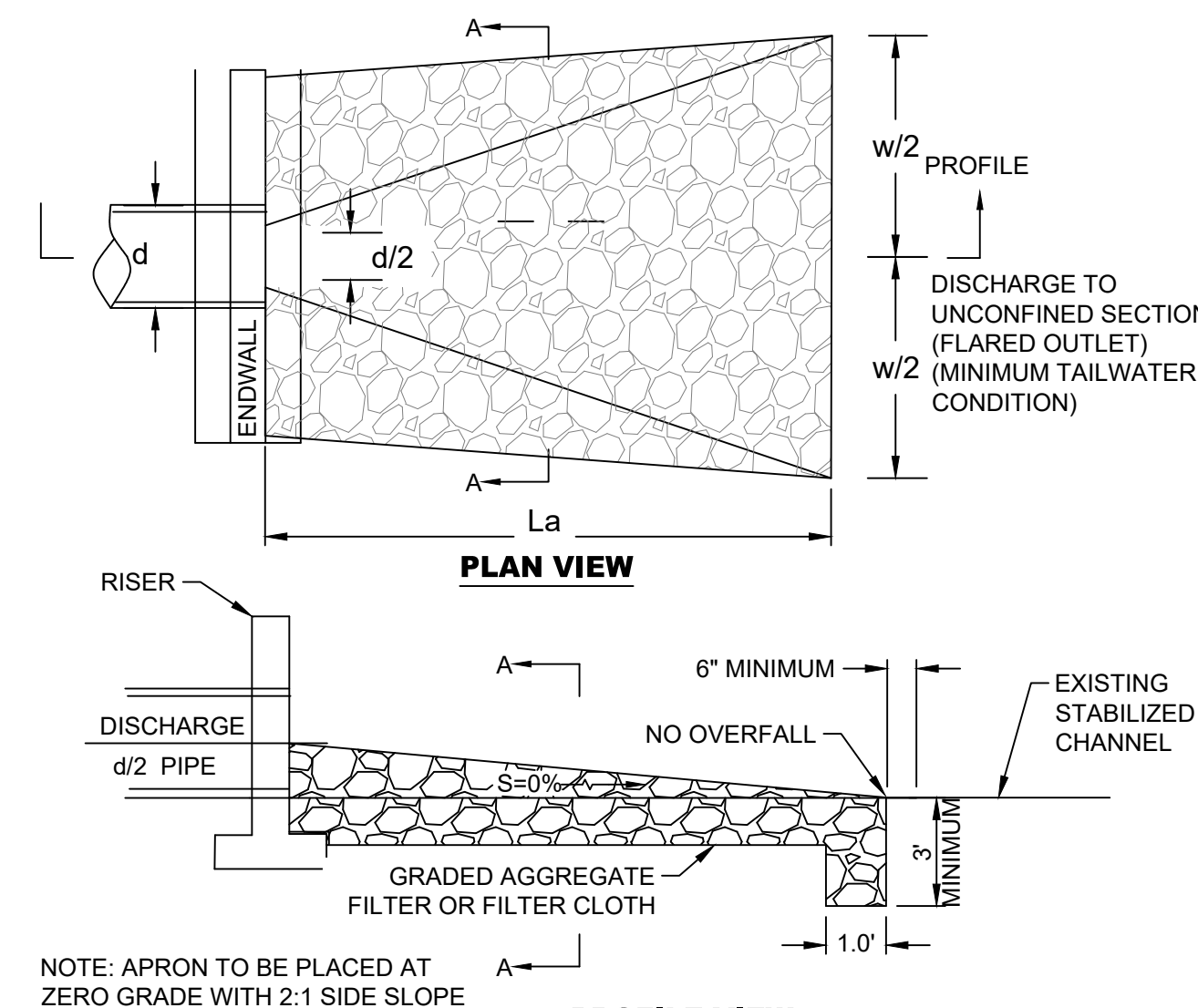
TEMPORARY SOIL STOCKPILE
NOT TO SCALE

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
- UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
- SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

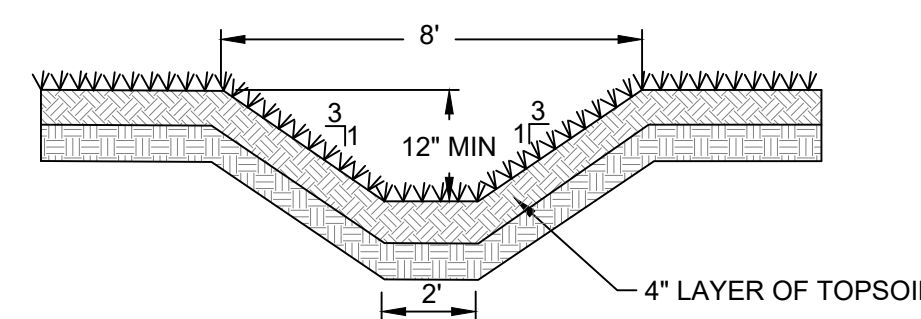


STONE CHECK DAM
NOT TO SCALE

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

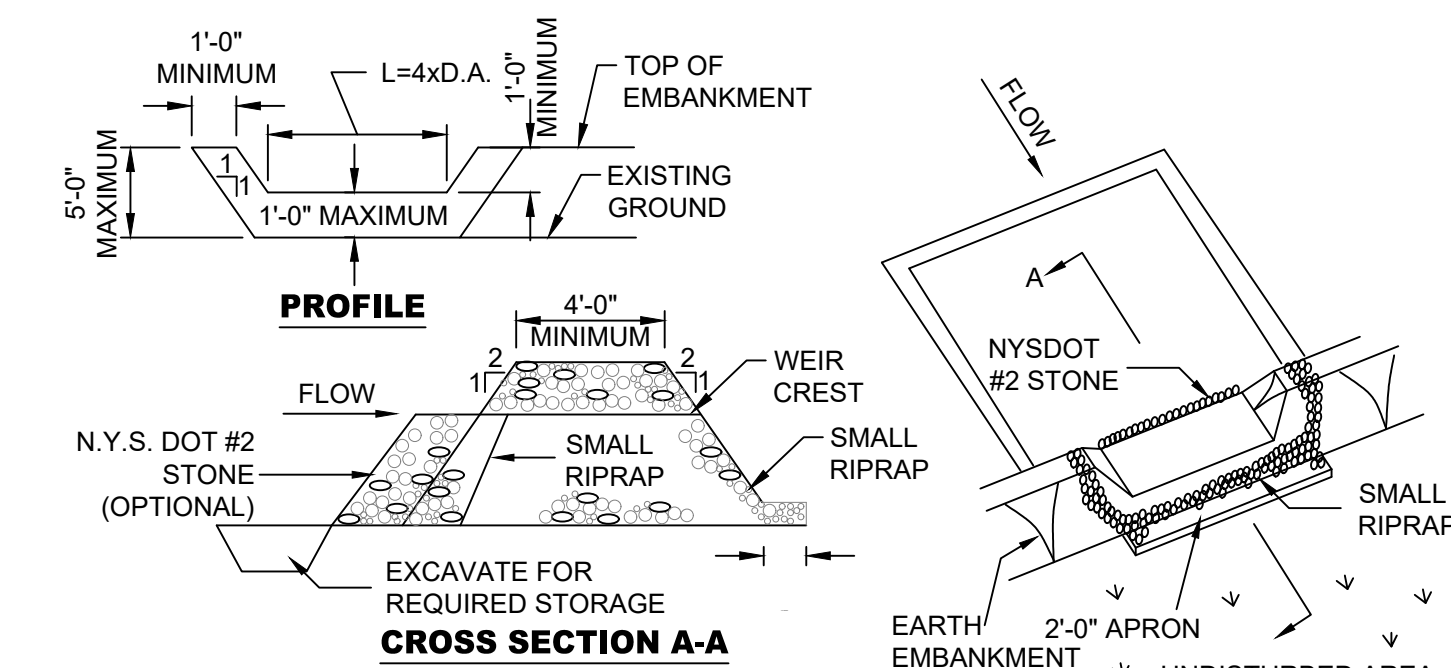


RIPRAP OUTLET PROTECTION
NOT TO SCALE



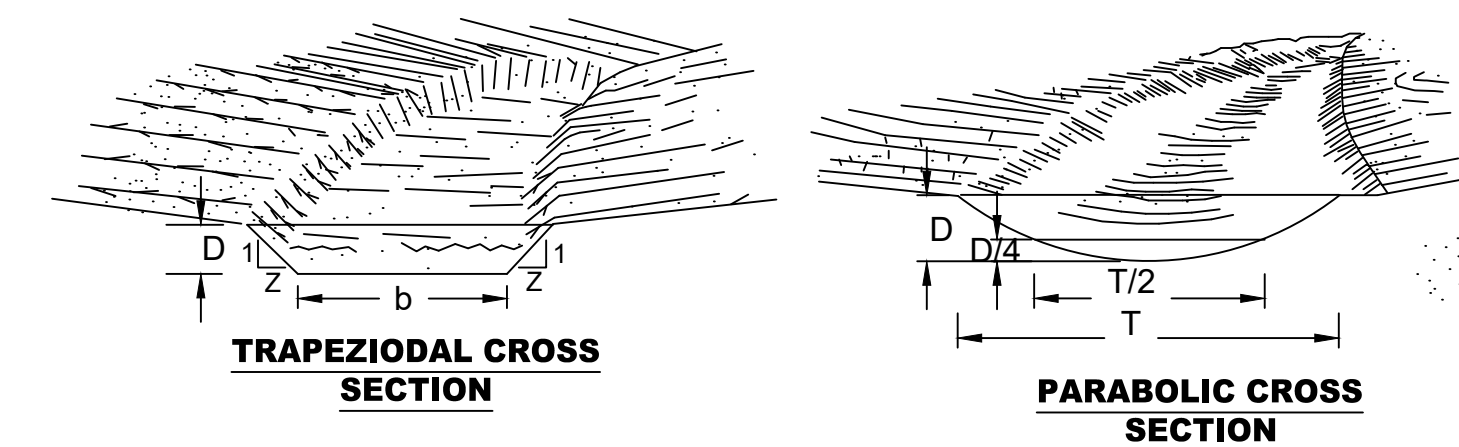
PERMANENT GRASS LINED DIVERSION SWALE
NOT TO SCALE

- MINIMUM DEPTH OF SWALE SHALL BE 12".
- SWALE SHALL BE AT LEAST 6 FEET WIDE AT TOP.
- SWALE SHALL BE SEEDED AND MULCHED WITH FAST GERMINATING RYE 15 LBS. TO 25 LBS. PER 1,000 SF.
- SLOPE OF SWALE SHALL BE MINIMUM 2%.



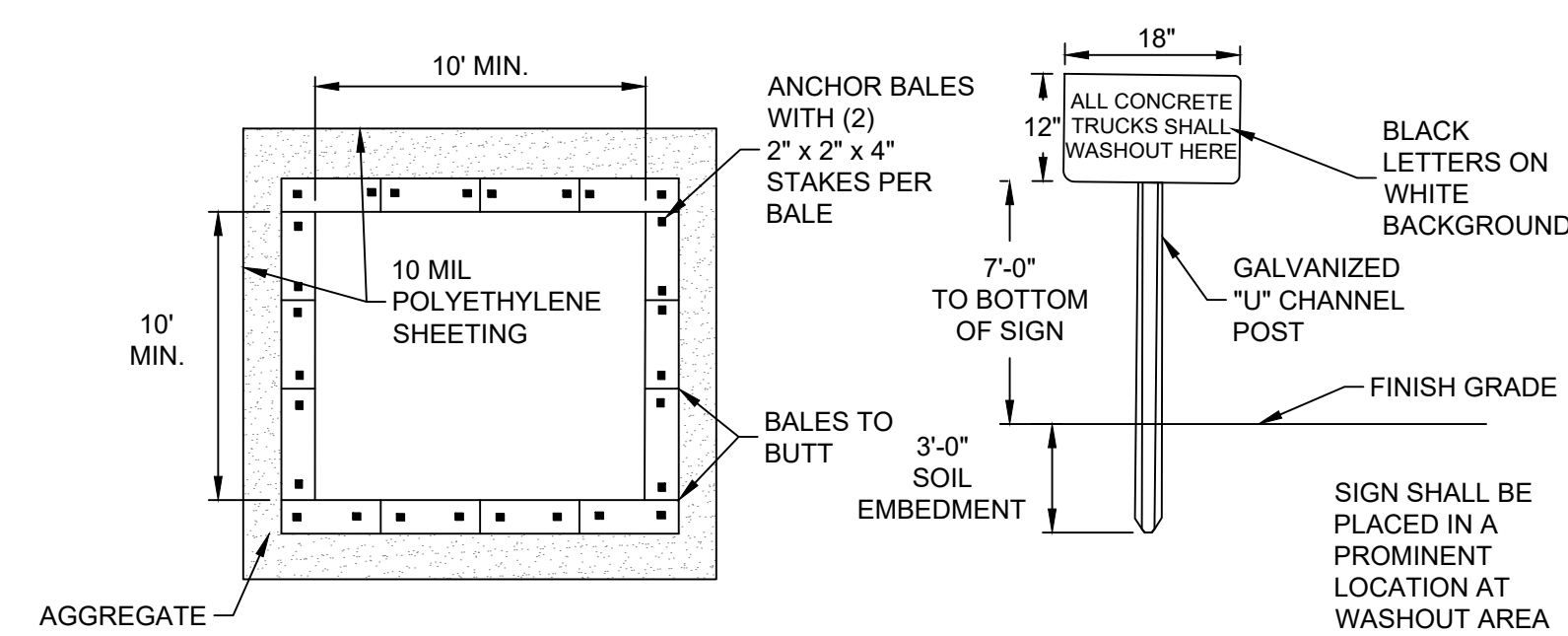
STONE OUTLET SEDIMENT TRAP ST-II
NOT TO SCALE

- AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
- THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1" THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. IT SHALL BE PLACED ON SITE AND STABILIZED.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
- THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. MAXIMUM DRAINAGE AREA 5 ACRES



GRASSED WATERWAY
NOT TO SCALE

- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY.
- ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
- FOR DESIGN VELOCITIES OF LESS THAN 3.5 FEET PER SECOND, SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY WATERWAYS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.
- FOR DESIGN VELOCITIES OF MORE THAN 3.5 FEET PER SECOND, THE WATERWAY SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY JUTE OR EXCELSIOR MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.
- STRUCTURAL - VEGETATIVE PROTECTION SUBSURFACE DRAIN FOR BASE FLOW SHALL BE CONSTRUCTED AS SHOWN ON THE STANDARD DRAWING AND AS SPECIFIED IN THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN.



CONCRETE WASHOUT AREA
NOT TO SCALE

- CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
- CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
- WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL. THIS INCLUDES REPLACEMENT OF THE 10 MIL. POLYETHYLENE SHEETING.
- WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
- ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
- AT LEAST WEEKLY, REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

NO.	DATE	DESCRIPTION	INT.
1	2023-07-27	INITIAL SUBMISSION	DWY
1	2024-07-03	SUBMIT TO TOWNSHIP	DWY

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WMB GEOLOGIC & ENGINEERING SERVICES, DPC
284 ROUTE 17C
WAVERLY, NY 14892
607-565-9800

PROJECT ID: **21-274.02-DY** DRAWN: **JAM**

DATE: **2023-07-27** DESIGN: **DWY**

SCALE: **AS NOTED** CHECKED: **DWY**

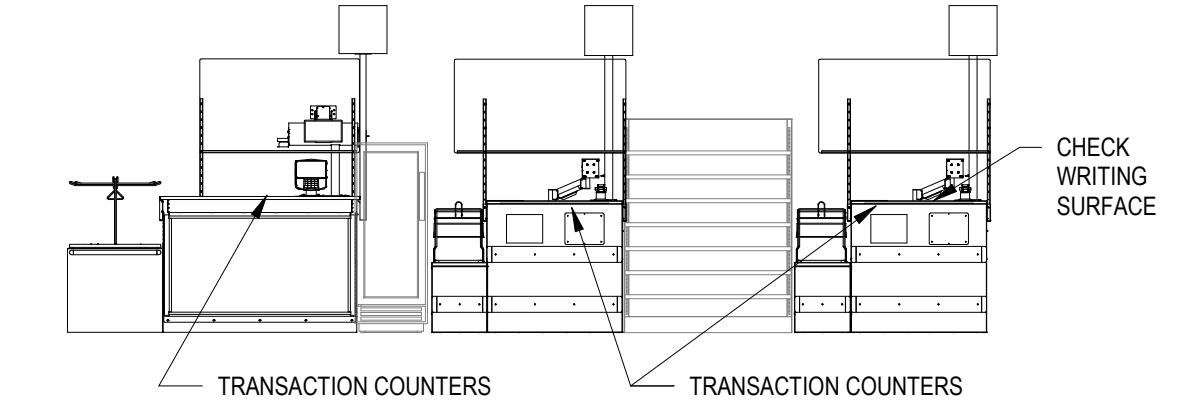
PROJECT:

10,566 SF RETAIL BUILDING
LOCATED AT
7174 ALLEGHANY ROAD
TOWN OF ALABAMA
GENESEEE COUNTY, NY

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL DETAILS

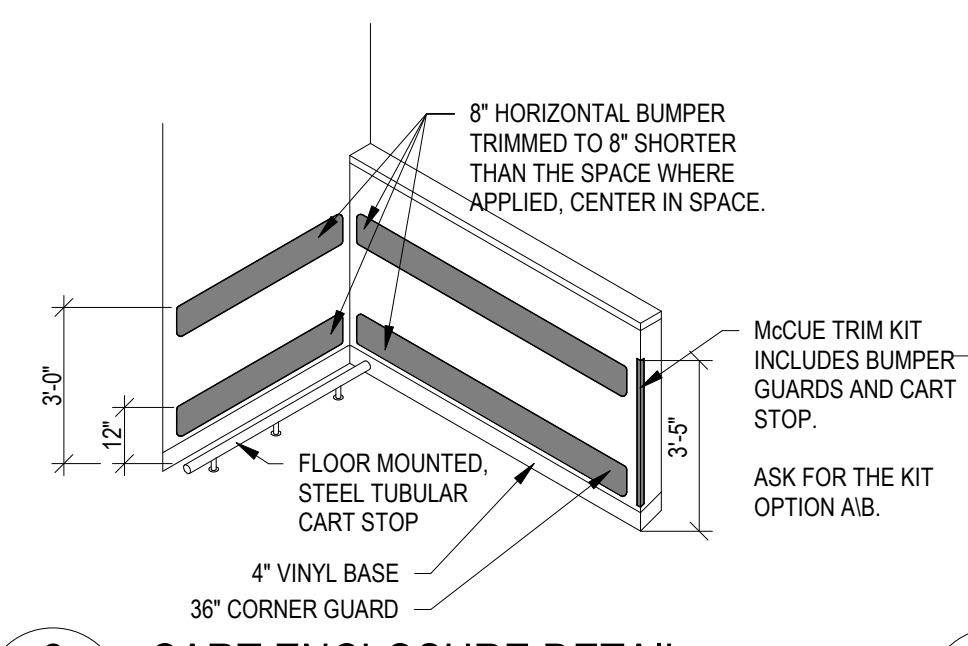
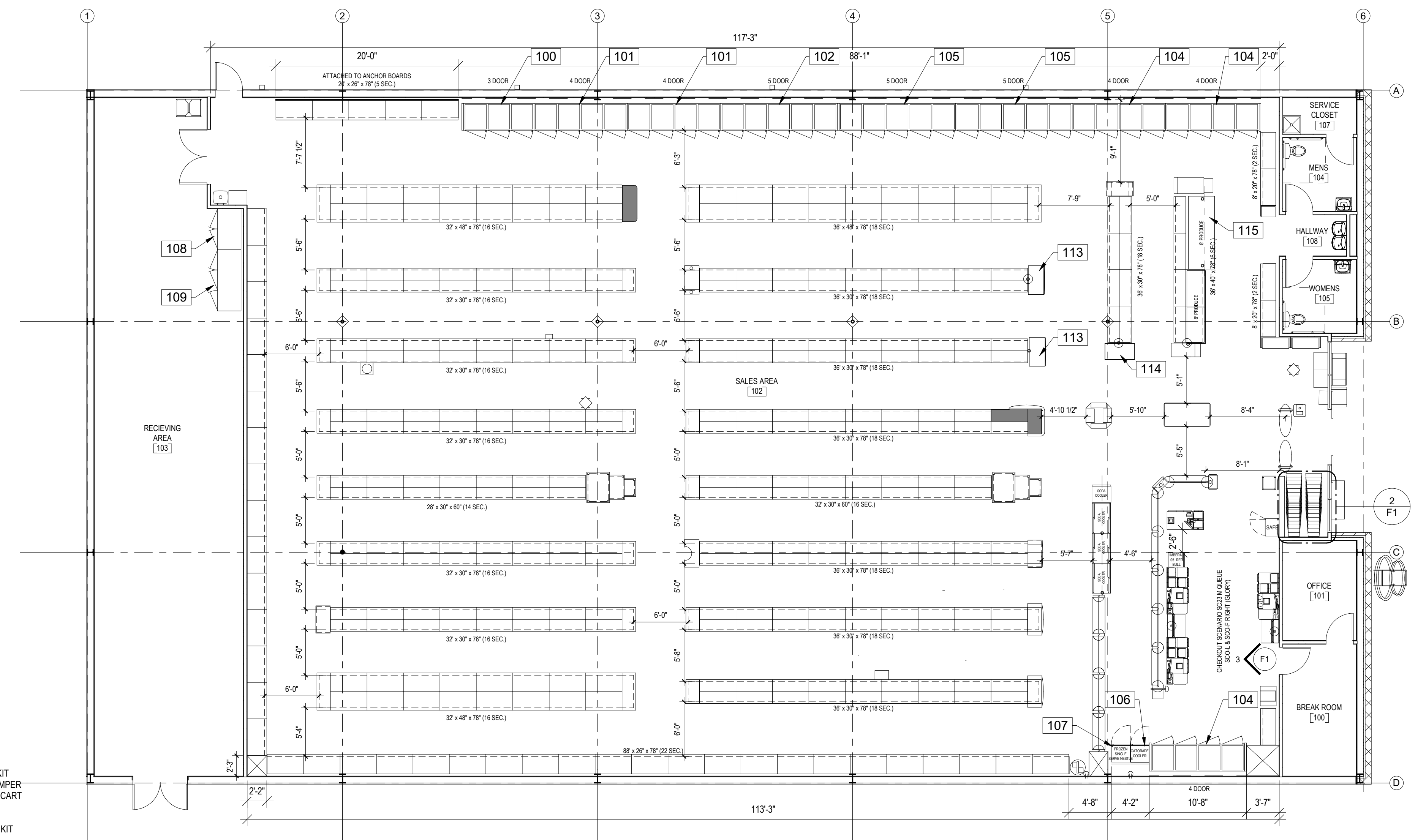
PLAN STATUS: **DESIGN** SHEET NUMBER: **C-215**

NOTE: FRONT CHECKOUT COUNTER TO BE PROVIDED BY DOLLAR GENERAL AND INSTALLED AT DOLLAR GENERAL'S DIRECTION. COUNTERS SHALL INCLUDE A PORTION OF AT LEAST 36" IN LENGTH WHICH IS NO MORE THAN 34" ABOVE THE FINISH FLOOR. COUNTERS SHALL BE ON AN ACCESSIBLE ROUTE.



3 SERVICE COUNTER DETAILS
F1 1/4" = 1'-0"

REFRIGERATION		
100 - 3 DOOR LOW TEMP OR	HUSSMAN ZERO ZONE	RFL 3-DOOR RHZC30 3-DOOR
101 - 4 DOOR LOW TEMP OR	HUSSMAN ZERO ZONE	RFL 4-DOOR RHZC30 4-DOOR
102 - 5 DOOR LOW TEMP OR	HUSSMAN ZERO ZONE	RFL 5-DOOR RHZC30 5-DOOR
103 - 3 DOOR MID TEMP OR	HUSSMAN ZERO ZONE	RFM 3-DOOR RHCC30 4-DOOR
104 - 4 DOOR MID TEMP OR	HUSSMAN ZERO ZONE	RFM 4-DOOR RHMC30 4-DOOR
105 - 5 DOOR LOW TEMP OR	HUSSMAN ZERO ZONE	RF1 5-DOOR RHCC30 5-DOOR
106 - 1 DOOR MID TEMP	TRUE	GDM-12-HC-TSL01
107 - 1 DOOR LOW TEMP	TRUE	GDM-12F-HC-LD
108 - 2 DOOR MID TEMP	MAXX COLD	MCRT-46FD
109 - 3 DOOR LOW TEMP	MAXX COLD	MCFT-72FD
110 - CLICK AND COLLECT FREEZER	TURBO AIR	TGF-15SD-N
111 - CLICK AND COLLECT COOLER	TURBO AIR	TGM-15SD-N6
112 - SLIDING DOOR PASS-THRU	TRUE	GDM-33CPT-54-HC-LD
113 - ENDCAP COOLER	IDW	GS-4
114 - ENDCAP COOLER	IDW	GS-5
115 - PRODUCE COOLER	HOWARD MCCRAY	SC-OP3SE-8-LED-DIG (ONLY IN SELECTED STORES)
116 - 1-DOOR MID TEMP	TRUE	GDM-10-HC-TSL01



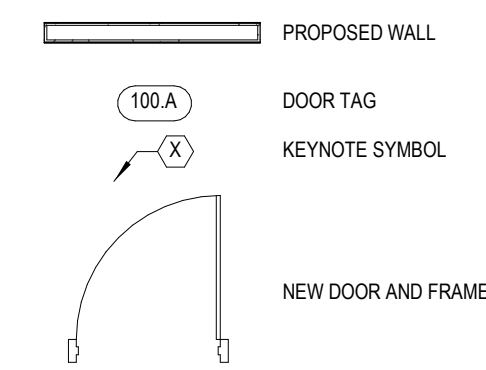
2 CART ENCLOSURE DETAIL
F1 1/8" = 1'-0"

1 FIXTURE PLAN
F1 1/8" = 1'-0"

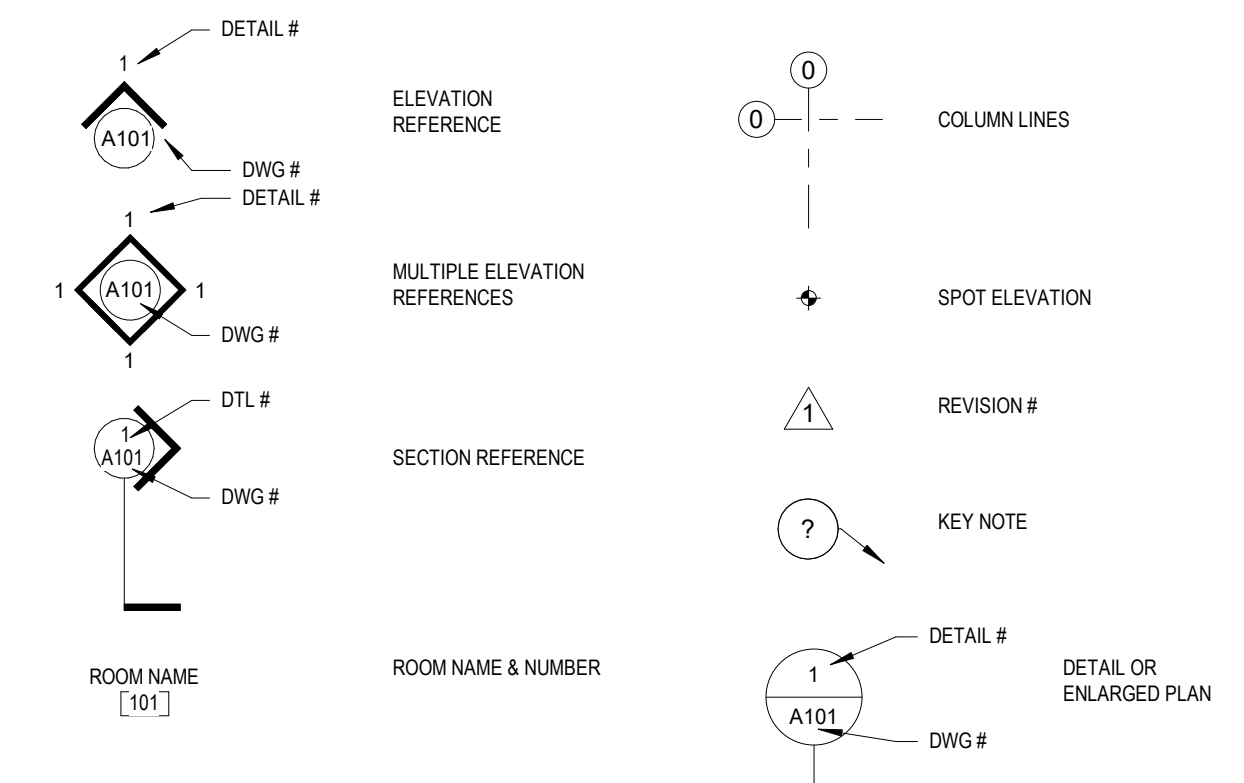
FLOOR PLAN KEYED NOTES

- A1 RECEIVING DOOR BUZZER
- A2 2" DOOR VIEWER
- A3 STRIPE FLOOR FOR DESIGNATED CLEAR EGRESS PATH (PAINT YELLOW) AND DESIGNATED EMS PANEL CLEARANCE (PAINT RED).
- A4 STRIPE FLOOR FOR DESIGNATED CLEAR ADA EGRESS PATH (PAINT YELLOW.)
- A5 PROVIDE AND INSTALL WATER HEATER ABOVE THE MOP SINK. REFER TO PLUMBING DRAWINGS FOR SIZE.
- A7 METAL LINER PANELS TO 8'-0" A.F.F. (BY PRE-ENGINEERED BUILDING MANUFACTURER).
- A9 METAL BUILDING PANELS (BY PRE-ENGINEERED BUILDING MANUFACTURER).
- A10 CONCRETE SLAB WITH STRUCTURAL MIN. 6x6xW1.4 WELDED WIRE MESH OVER POLYETHYLENE VAPOR BARRIER (MIN. 10 MM THICK) OVER CRUSHED STONE BASE. TYPICAL, OR EQUIVALENT. PROVIDE CONTROL JOINTS AT 14'-0" ON CENTER EACH WAY MAX. SEE STRUCTURAL.
- A11 METAL BUILDING FRAME. REFER TO DETAIL 5/A3 FOR ADDITIONAL INFORMATION.
- A12 METAL LINER PANELS (28/29 GAUGE) WITH 1/2" GYPSUM BOARD. SEE INTERIOR ELEVATIONS ON SHEET A4. PROVIDE R-25 METAL BUILDING INSULATION.
- A13 8" SMOOTH FACED CMU PAINTED SW #7037 BALANCED BEIGE. ALIGN FACE OF BLOCK WITH STEEL GIRT. PROVIDE PROPER ANCHORAGE TO STRUCTURE.
- A14 SLOPE CONCRETE MIN. 1/8" PER FOOT MIN. AWAY FROM BUILDING. REFER TO CIVIL.
- A15 COORDINATE CONCRETE SIDEWALK WITH CIVIL AND BROOM FINISH, TYP.
- A16 BRONZE STOREFRONT SYSTEM. REFER TO SHEETS A4 AND A5 FOR ADDITIONAL INFORMATION. CONTINUE METAL LINER PANELS TO DECK.
- A17 LINE OF SOFFIT OR CANOPY ABOVE.
- A18 A.D.A. COMPLIANT H.C. RAMP WITH PAINTED SIDES TO ACCESS PARKING STALLS, REFER TO CIVIL DRAWINGS.
- A19 MC CUE CART AND BUMPER GUARDS 3'-5" A.F.F., ORDER TRIMKIT FOR THIS PROTOTYPE.
- A20 WALL HYDRANT. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- A21 ROUND STEEL PIPE COLUMN WITH RECESSED BASE PLATE-PAINT SECOND CONCRETE POUR SW6991 BLACK MAGIC. PAINT STEEL COLUMN SW7005 PURE WHITE. WRAP COLUMN WITH TIGHT LOOP CARPET (BLACK) 48" HIGH AT BASE.
- A22 WALL OUTLETS FOR BANKS OF COOLERS AND FREEZERS. SEE ELECTRICAL FOR DETAILS. OUTLETS TO BE 11" FROM RIGHT SIDE OF UNITS AS YOU FACE THEM FROM THE SALES FLOOR.
- A23 MAINTAIN 2" AIR GAP BETWEEN THE REACH IN COOLER / FREEZER AND THE WALL FOR VENTILATION.
- A24 REFRIGERATION BY DOLLAR GENERAL.
- A25 FREESTANDING COOLER/FREEZERS (INCLUDING PRODUCE COOLER AND DISPLAY LIGHTING) TO BE HARDWIRED THROUGH SO CORD. GC TO LEAVE BOTTOM OF CORD HANGING AT 8" A.F.F. (SEE ELECTRICAL). SO CORD ANCHORED TO PURLINS ABOVE. COORDINATE LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN.
- A26 POWER POLE. COORDINATE FINAL LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN (F01).
- A27 MC CUE RAILING IN FRONT OF ELECTRICAL PANEL. 8'-0" LONG WITH TWP TOP RAILINGS AND NO MIDDLE POST.
- A28 NON-REFRIGERATION EQUIPMENT (REGISTERS, HIGI KIOSK, ATM, KEYME) BY DOLLAR GENERAL.
- A29 REFRIGERATION AND NON-REFRIGERATION EQUIPMENT ON WALLS TO BE POWERED THROUGH OUTLETS - SEE ELECTRICAL. COORDINATE LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN.

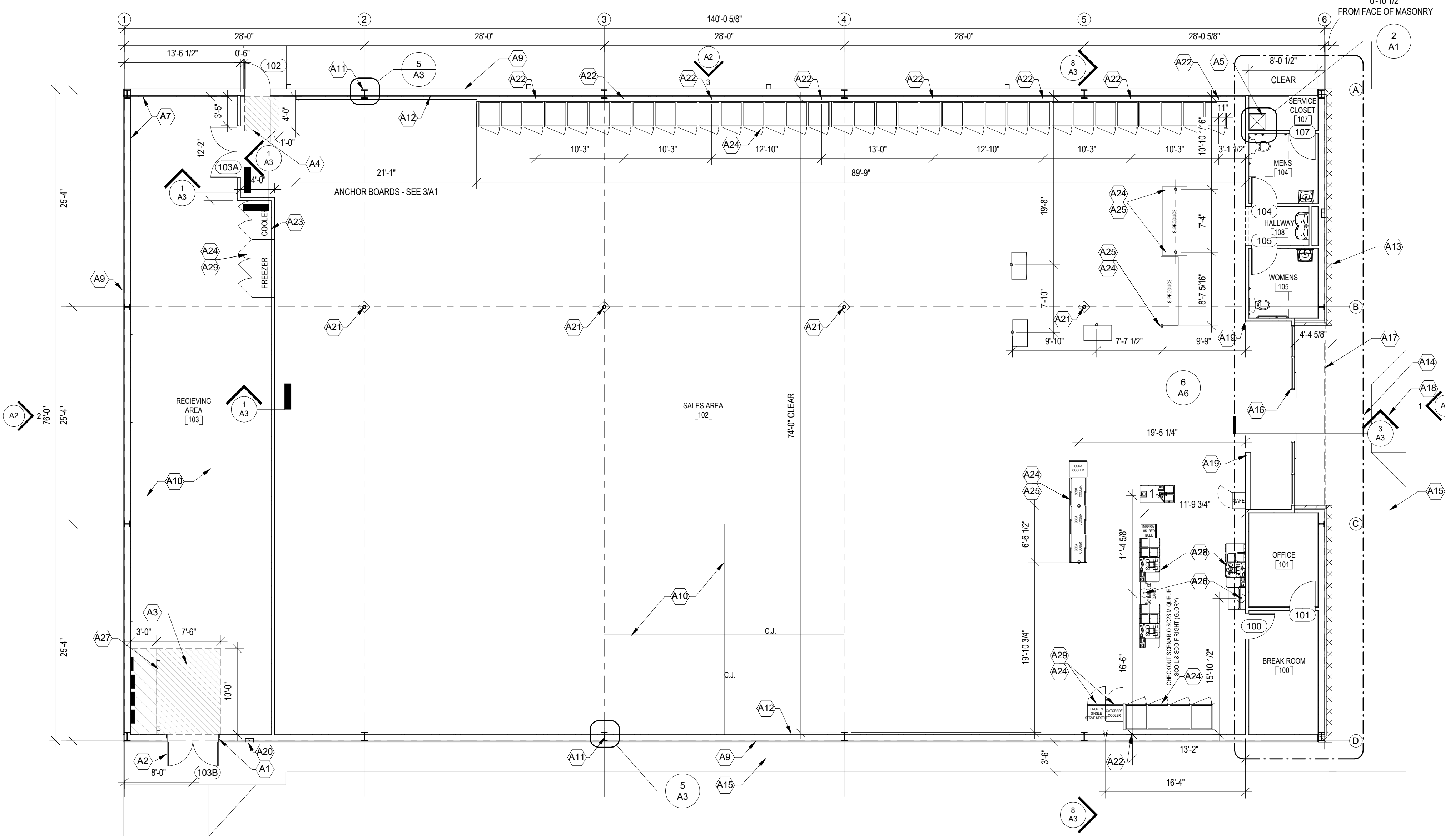
GENERAL FLOOR PLAN LEGEND



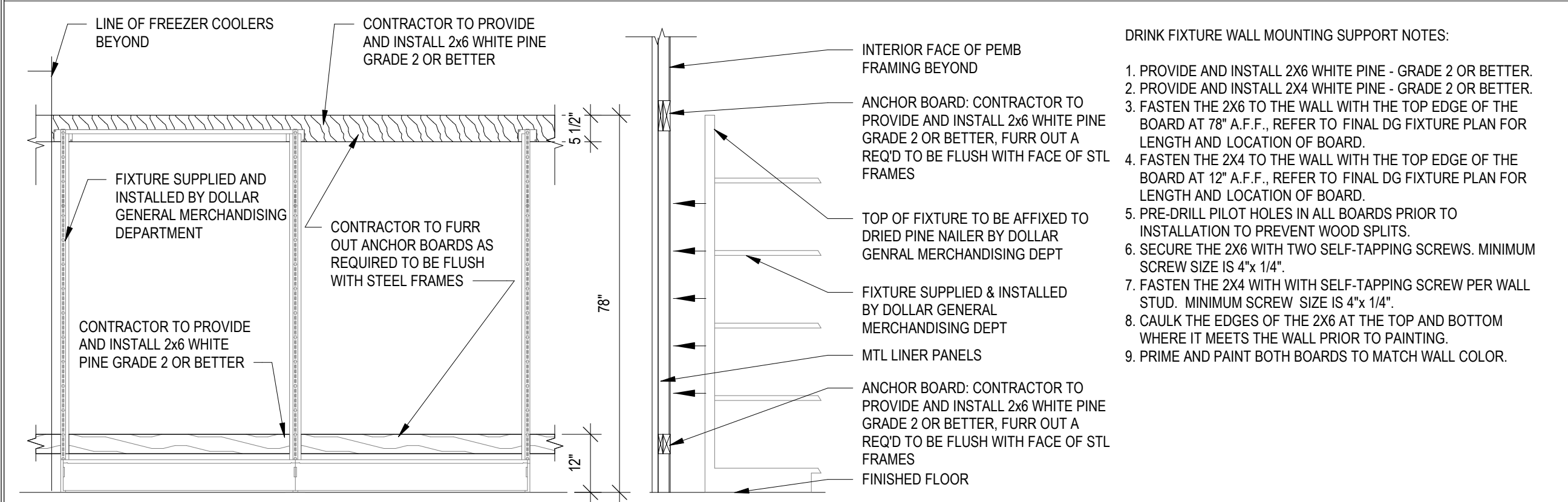
TYPICAL SYMBOLS LEGEND



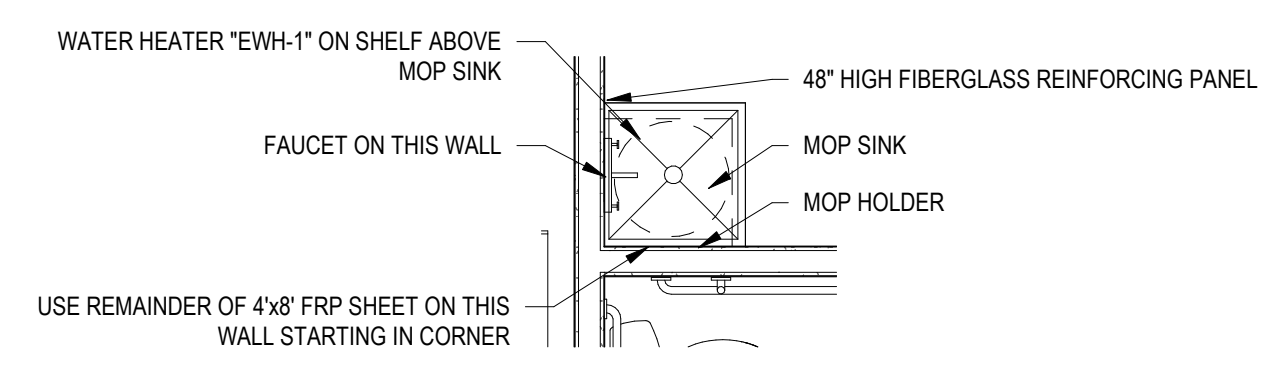
NOTE:
THE ALLOWABLE CLEAR DISTANCE BEHIND THE SALES FLOOR FIXTURES IS 1-1/2" MAXIMUM TO THE FACE OF THE DRYWALL. IF IT IS LARGER THAN THIS, PROVIDE HORIZONTAL WOOD FURRING STRIPS, PAINTED WALL COLOR, MOUNTED ON THE DRYWALL AT 78" AFF TO THE TOP OF THE STRIP TO REDUCE THE GAP TO LESS THAN 1-1/2".



1 FLOOR PLAN
A1 1/8" = 1'-0"



- DRINK FIXTURE WALL MOUNTING SUPPORT NOTES:**
1. PROVIDE AND INSTALL 2x6 WHITE PINE - GRADE 2 OR BETTER.
 2. PROVIDE AND INSTALL 2x4 WHITE PINE - GRADE 2 OR BETTER.
 3. FASTEN THE 2x6 TO THE WALL WITH THE TOP EDGE OF THE BOARD AT 78" A.F.F., REFER TO FINAL DG FIXTURE PLAN FOR LENGTH AND LOCATION OF BOARD.
 4. FASTEN THE 2x4 TO THE WALL WITH THE TOP EDGE OF THE BOARD AT 12" A.F.F., REFER TO FINAL DG FIXTURE PLAN FOR LENGTH AND LOCATION OF BOARD.
 5. PRE-DRILL PILOT HOLES IN ALL BOARDS PRIOR TO INSTALLATION TO PREVENT WOOD SPLITS.
 6. SECURE THE 2x6 WITH TWO SELF-TAPPING SCREWS. MINIMUM SCREW SIZE IS 4x 1/4".
 7. FASTEN THE 2x4 WITH WITH SELF-TAPPING SCREW PER WALL STUD. MINIMUM SCREW SIZE IS 4x 1/4".
 8. CAULK THE EDGES OF THE 2x6 AT THE TOP AND BOTTOM WHERE IT MEETS THE WALL PRIOR TO PAINTING.
 9. PRIME AND PAINT BOTH BOARDS TO MATCH WALL COLOR.

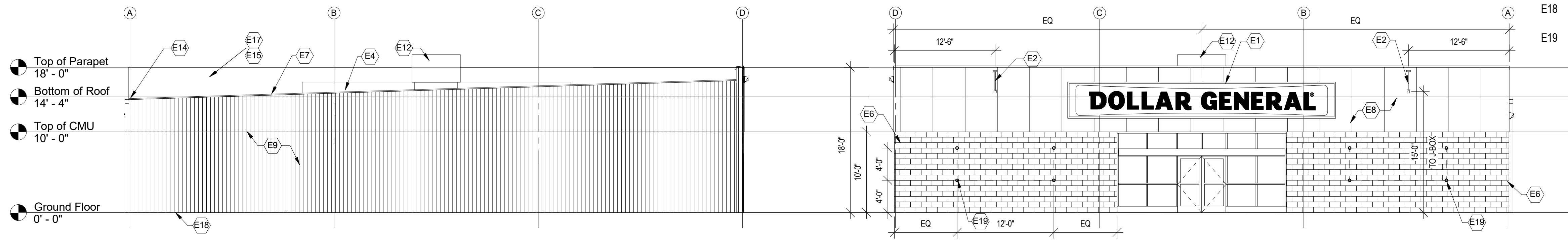


2 ENLARGED PLAN AT MOP SINK
A1 3/8" = 1'-0"

ELEVATION KEYED NOTES

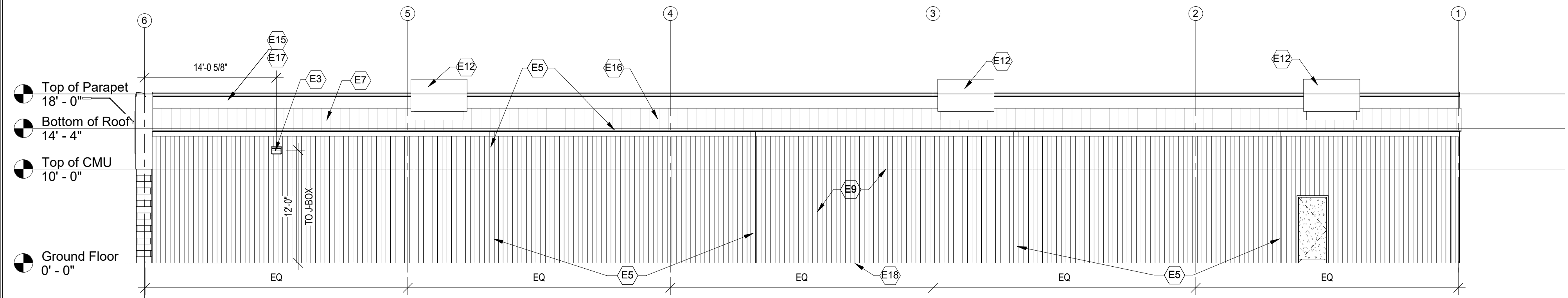
- E1 SIGN FURNISHED AND INSTALLED BY DOLLAR GENERAL CORP. WITH CIRCUIT AS NOTED ON ELECTRICAL PLAN. SIGN TO BE CENTERED ON FRONT OF BUILDING. CONTRACTOR IS TO PROVIDE ADEQUATE BLOCKING AS REQUIRED BY SIGN MANUFACTURER TO SUPPORT SIGN WEIGHT OF UP TO 1,400 LBS. EXTERIOR CANOPY SIGN SHALL BE SUPPORTED BY THE FACE OF THE CANOPY. CONTRACTOR IS TO PROVIDE ADEQUATE STRUCTURE TO SUPPORT SIGN. COORDINATE THE PROPER SIGNAGE TO BE USED WITH DOLLAR GENERAL.
- E2 FLOOD LIGHT. REFER TO ELEC. DRAWINGS FOR ADDITIONAL INFO.
- E3 WALL PACK. REFER TO ELEC DRAWINGS FOR ADDITIONAL INFO.
- E4 TRIM - SEE FINISH SCHEDULE FOR COLOR.
- E5 GUTTER AND DOWNSPOUT - SEE FINISH SCHEDULE FOR COLOR.
- E6 8" SPLIT FACE CONCRETE MASONRY UNIT.
- E7 STANDING SEAM METAL ROOF.
- E8 PRE-FINISHED METAL WALL PANELS FOR FASCIA AND PARAPET OVER ENTRANCE, REVERSED RIB PROFILE.
- E9 PRE-FINISHED METAL WALL PANELS FOR SIDE AND REAR. PROVIDE TAMPER RESISTANT FASTENERS FOR BOTTOM 8'-0".
- E10 VENT FOR BATHROOM EXHAUST. REFER TO MECHANICAL DRAWING M1 FOR ADDITIONAL INFORMATION.
- E11 DOOR BUZZER. REFER TO ELECTRICAL DRAWING E1 FOR ADDITIONAL INFORMATION.
- E12 HVAC UNITS MOUNTED ON ROOF. REFER TO MECHANICAL SHEET M1 FOR ADDITIONAL INFORMATION.
- E13 OUTSIDE AIR TEMP. SENSOR MOUNTED OVER RECEIVING DOOR AT 9'-0" A.F.F.
- E14 MINIMUM EAVE HEIGHT IS 14'-0" A.F.F.
- E15 PARAPET BEYOND.
- E16 IN NORTHERN CLIMATES, PROVIDE SNOW GUARDS ON ROOF PER LOCAL CODE.
- E17 EXTEND PARAPET WALL UP AS NEEDED TO SCREEN ROOF MOUNTED EQUIPMENT IF REQUIRED BY LOCAL ORDINANCE.
- E18 FINISH GRADE TO BE A MINIMUM OF 6" BELOW FINISHED FLOOR LEVEL AT ALL NONPAVED AREAS. REFER TO CIVIL DRAWINGS.
- E19 1/2" DIAMETER x 6" LONG STEEL EYE BOLTS (CLOSED) WITH 1" DIAMETER OPENINGS. 4 BOLTS TO BE LOCATED AS SHOWN EACH SIDE OF ENTRY. TOTAL OF 8 BOLTS.

FINISHES	PEMB VENDOR		VP BUILDINGS ATTN: RANDY SPEARS 205-907-8176		STAR BUILDING SYSTEMS ATTN: JEFF HORN 866-664-8899		NUCOR BUILDING SYSTEMS ATTN: BOB BARRY 315-622-4440		BIG BEE STEEL BUILDINGS ATTN: KEVIN BUSLER 800-633-3378		CHIEF BUILDINGS ATTN: ERIN SULLIVAN 800-845-1767		PREFERRED COLORS IF ALTERNATE EXTERIOR MATERIALS ARE USED INSTEAD OF METAL PANELS
	COX	EGYPTIAN WHITE	COX	EGYPTIAN WHITE	COX	EGYPTIAN WHITE	COX	EGYPTIAN WHITE	COX	EGYPTIAN WHITE	COX	EGYPTIAN WHITE	
EXTERIOR FINISHES ARE TO MATCH OR BE EQUAL TO VP METAL BUILDING SYSTEMS FINISH SELECTION UNLESS AUTHORITY HAVING JURISDICTION DOES NOT ALLOW.													
GUTTERS													
DOWN SPOUTS													
SIDE AND REAR METAL WALL PANELS & TRIM RECEIVING & EMERGENCY EXIT DOORS (EXTERIOR OF DOORS TO BE PAINTED. REFER TO DOOR SCHEDULE).													
ARCHITECTURAL BLOCK AT BUILDING FACADE TO BE PRE-FINISHED OR PAINTED (2 COATS - LONON VP MASONRY COATING AERINAD SERIES) TO MATCH THE METAL WALL PANEL FLAT METAL SOFFIT AT STOREFRONT VESTIBULE.													
BUILDING FASCIA WALL PARAPET OVER ENTRANCE AND CANOPY													
STOREFRONT SYSTEM													
STANDING SEAM METAL ROOF PANELS													
INTERIOR SALES AND RECEIVING FLOOR LINER PANELS													

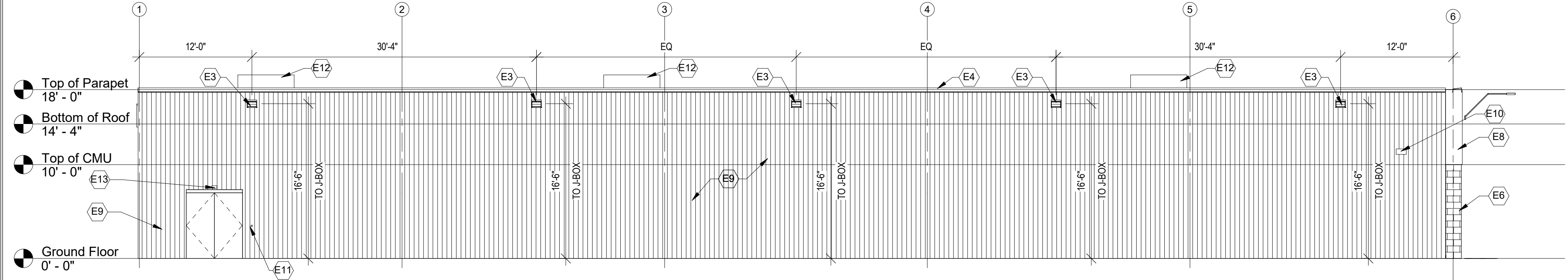


2 REAR ELEVATION
A2 1/8" = 1'-0"

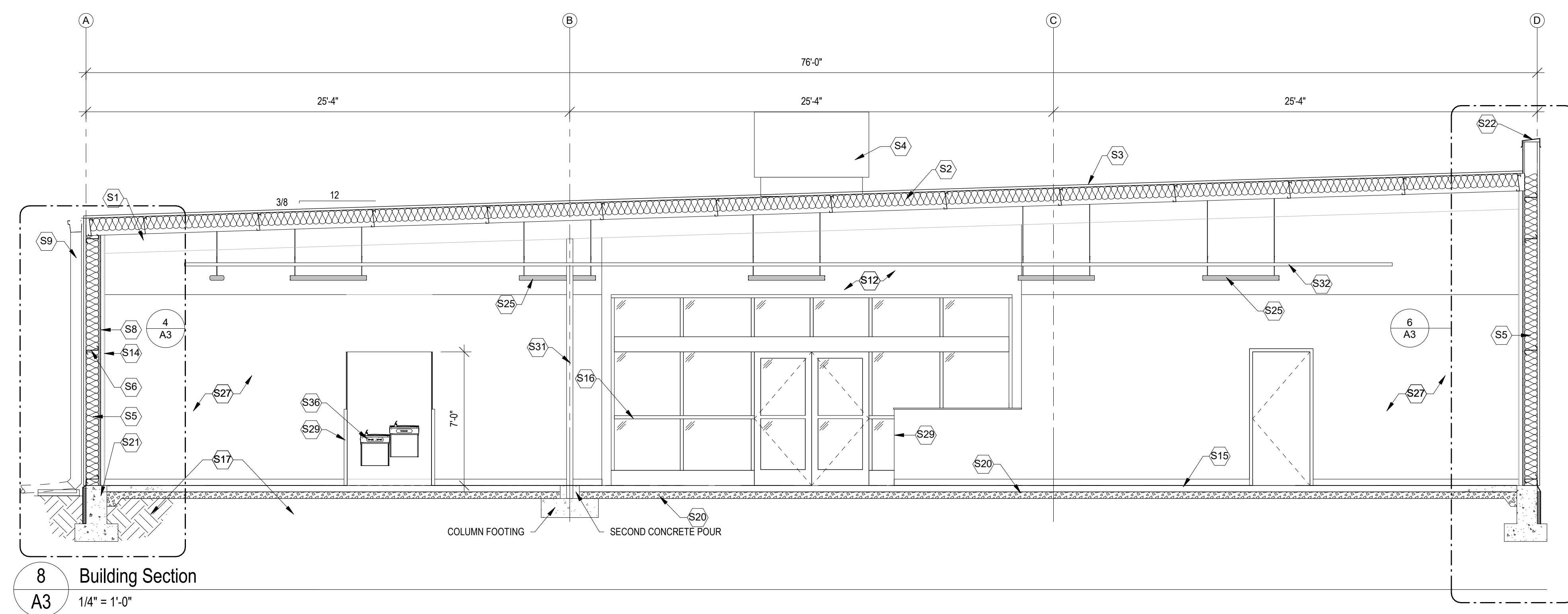
1 FRONT ELEVATION
A2 1/8" = 1'-0"



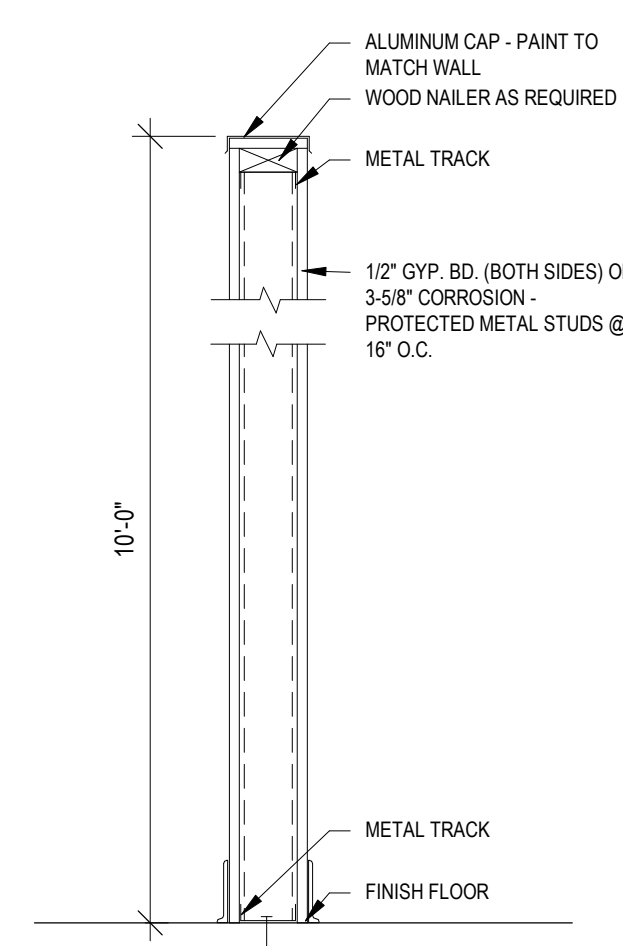
3 LOW SIDE ELEVATION
A2 1/8" = 1'-0"



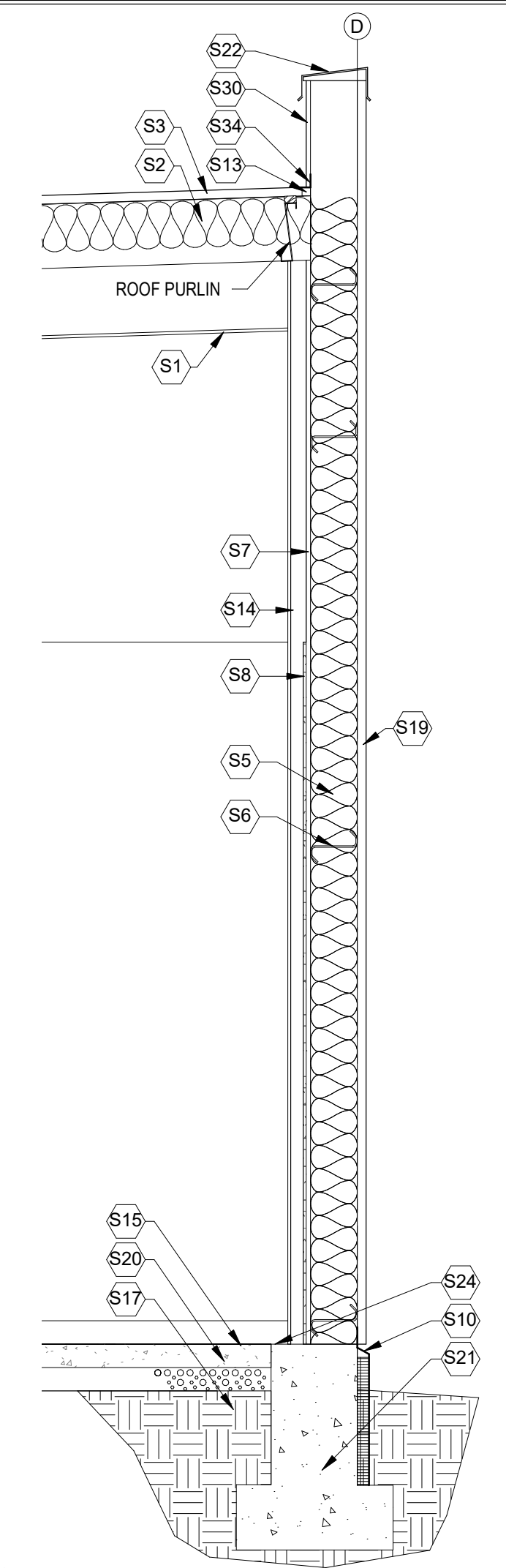
4 HIGH SIDE ELEVATION
A2 1/8" = 1'-0"



8 Building Section
A3 1/4" = 1'-0"



7 Wall Section - Interior Partition to 10'-0"
A3 1/2" = 1'-0"



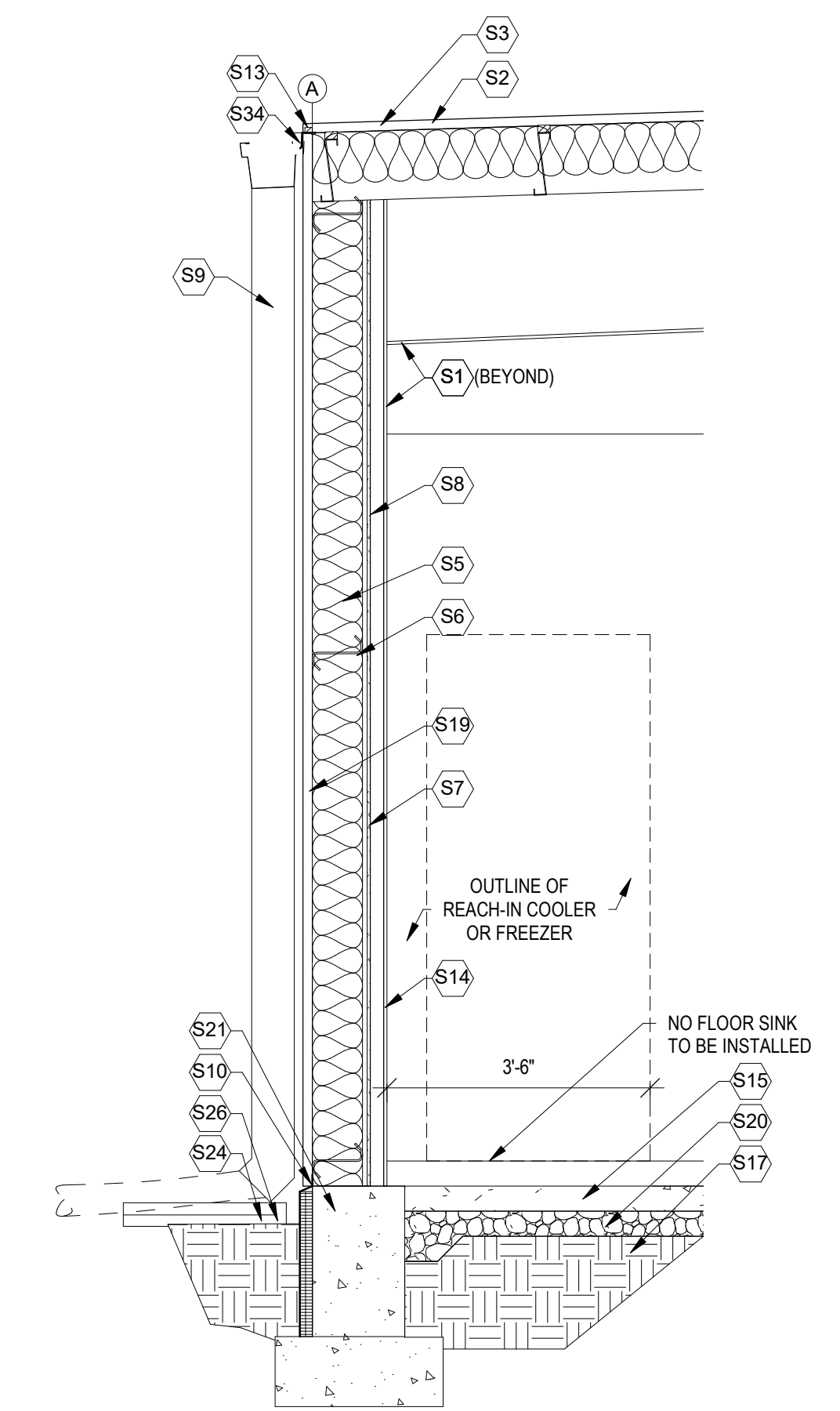
6 Wall Section - Exterior High Side
A3 1/2" = 1'-0"

SECTION KEYED NOTES

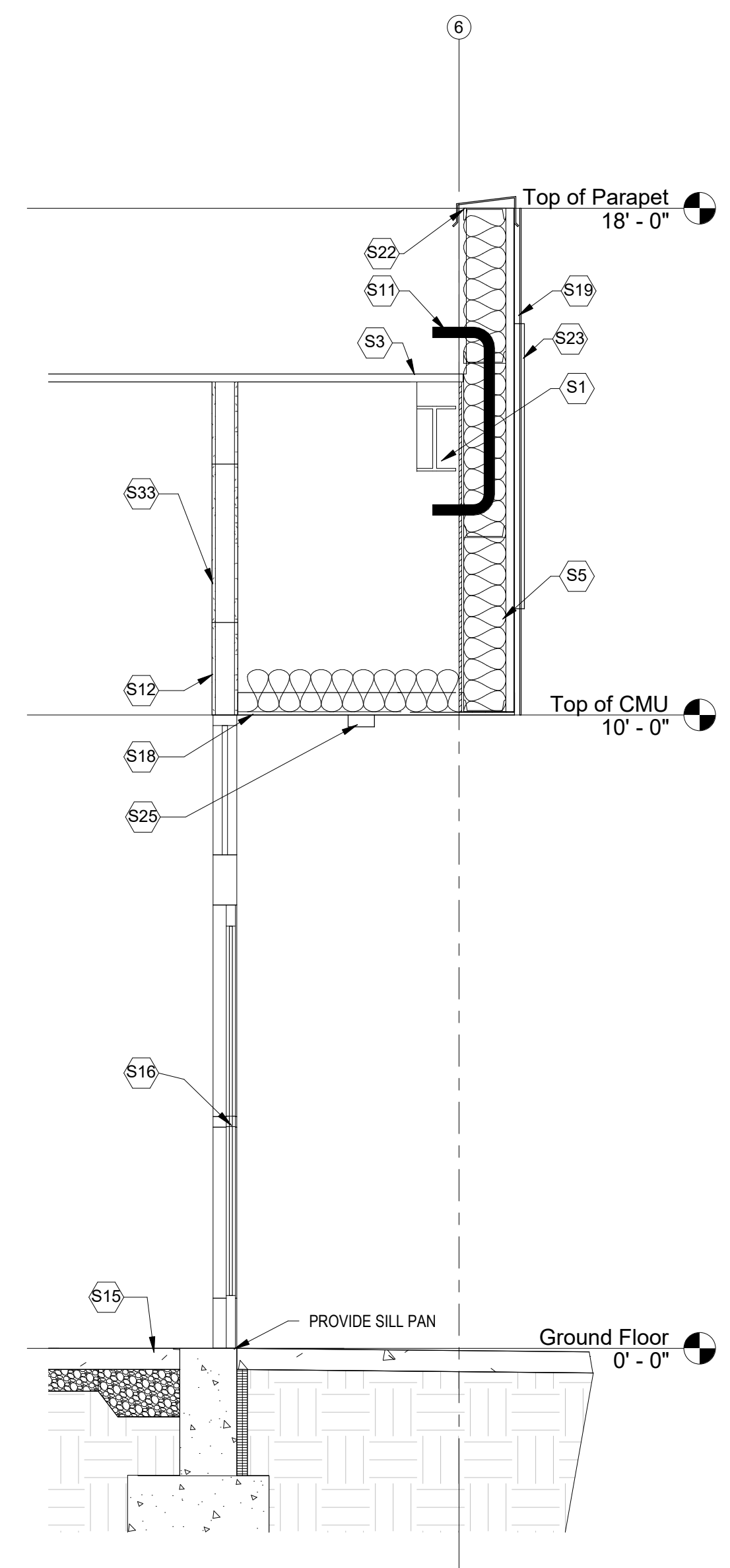
- S1 PRE-ENGINEERED METAL BUILDING SYSTEM BY BUILDING MANUF.
- S2 R-30 LINER SYSTEM WITH R-5 THERMAL BLOCKS AT EACH PURLIN. (BY PEMB) - INSULATION SYSTEM TO LEAVE BOTTOM OF PURLINS EXPOSED FOR ATTACHMENTS
- S3 STANDING SEAM METAL ROOF - GALVALUME FINISH. APPLY ROOF MASTIC BETWEEN PANELS PER MANUFACTURER RECOMMENDATIONS
- S4 ROOF MOUNTED HVAC UNIT. SEE MECH.
- S5 R-25 LINER SYSTEM BY METAL BUILDING MANUFACTURER.
- S6 1/2" METAL BUILDING GIRT
- S7 VERTICAL METAL LINER PANELS
- S8 1/2" GYPSUM BOARD OVER LINER PANELS (PAINTED). SEE SHEET AA
- S9 PRE-FINISHED DOWNSPOUT & GUTTER.
- S10 PROVIDE METAL CLOSURE, SEAL, AND DRAIN TO ROOF PROOF BUILDING.
- S11 LOCATION OF 7" CONDUIT WITH HULLSTRUNG ABOVE OFFICE FOR SATELLITE LINE. PROVIDE WEATHERTIGHT SEAL AT HORIZONTAL PENETRATION. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF CONDUIT. EXTEND CONDUIT TO OFFICE. COORDINATE PENETRATIONS W/ MANUF. RECOMMENDED DETAILS
- S12 1/2" GYPSUM BOARD TO DECK
- S13 ROOF CLOSURE. INSTALL PER MANUFACTURER RECOMMENDATIONS
- S14 METAL BUILDING COLUMNS SHALL BE STRAIGHT.
- S15 REIN. CONC. SLAB ON VINYL VAPOR BARRIER
- S16 2"x10" ALUMINUM BI-PART DOOR AND STOREFRONT GLAZING SYSTEM. COLOR BRONZE.

SECTION KEYED NOTES

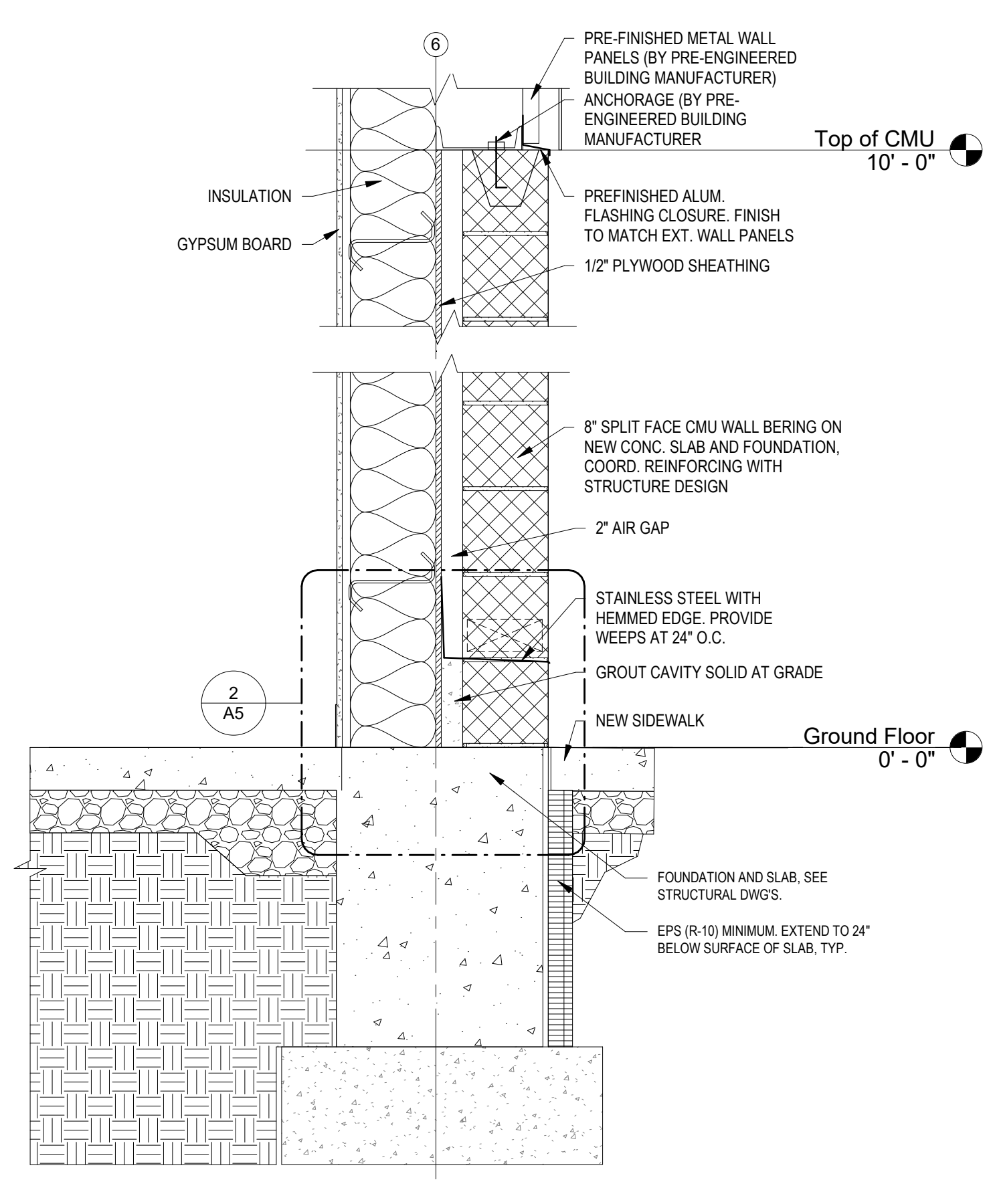
- S17 UNDISTURBED EARTH AND COMPACTED SUB GRADE
- S18 SOFFIT PROVIDED BY PRE-ENGINEERED BUILDING MANUF.
- S19 PRE-FINISHED METAL WALL PANELS
- S20 GRANULAR FILL
- S21 REINFORCED CONCRETE FOOTING. (REFER TO NOTES ON S2)
- S22 PREFINISHED METAL SIDING
- S23 STOREFRONT SIGN (BY DOLLAR GENERAL)
- S24 FINISH GRADE TO BE MINIMUM OF 6" BELOW FINISHED FLOOR AT ALL NONPAVED AREAS. REFER TO CIVIL DRAWINGS
- S25 LIGHTING. SEE ELECTRICAL DRAWINGS
- S26 WHERE NO SIDEWALK EXISTS, MIN. 5" LONG 4" PERFORATED LANDSCAPE PIPE, STRAPPED TO A 12"x30" CONCRETE SPASH BLOCK.
- S27 INTERIOR WALL - PAINTED - SEE ROOM SCHEDULE FOR MORE INFORMATION.
- S28 MC CUE TRIM KIT
- S29 PRE-FINISHED METAL FASCIA PANEL
- S30 METAL COLUMN WRAP WITH CARPET TO 48" HIGH AT BASE
- S31 CABLE TRAY - SEE AB
- S32 20"x30" MINIMUM ACCESS PANEL FOR SIGNAGE, ANCHOR BOX, COORDINATE LOCATION WITH ELECTRICAL DRAWINGS AND SIGNAGE VENDOR.
- S33 PROVIDE CONTINUOUS METAL FLASHING
- S34 ADA COMPLIANT DRINKING FOUNTAIN. SEE PLUMBING DWGS.



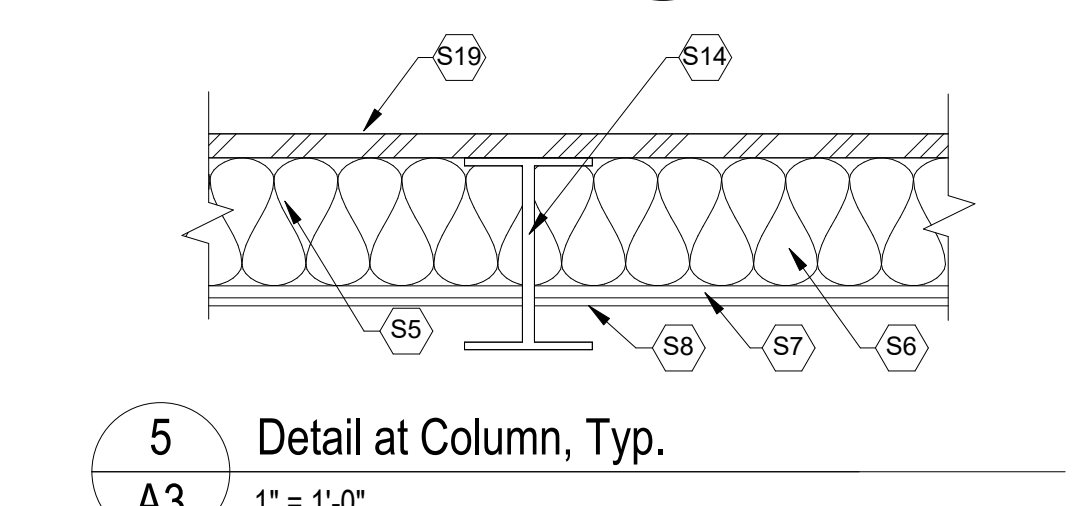
4 Wall Section - Exterior Low Side
A3 1/2" = 1'-0"



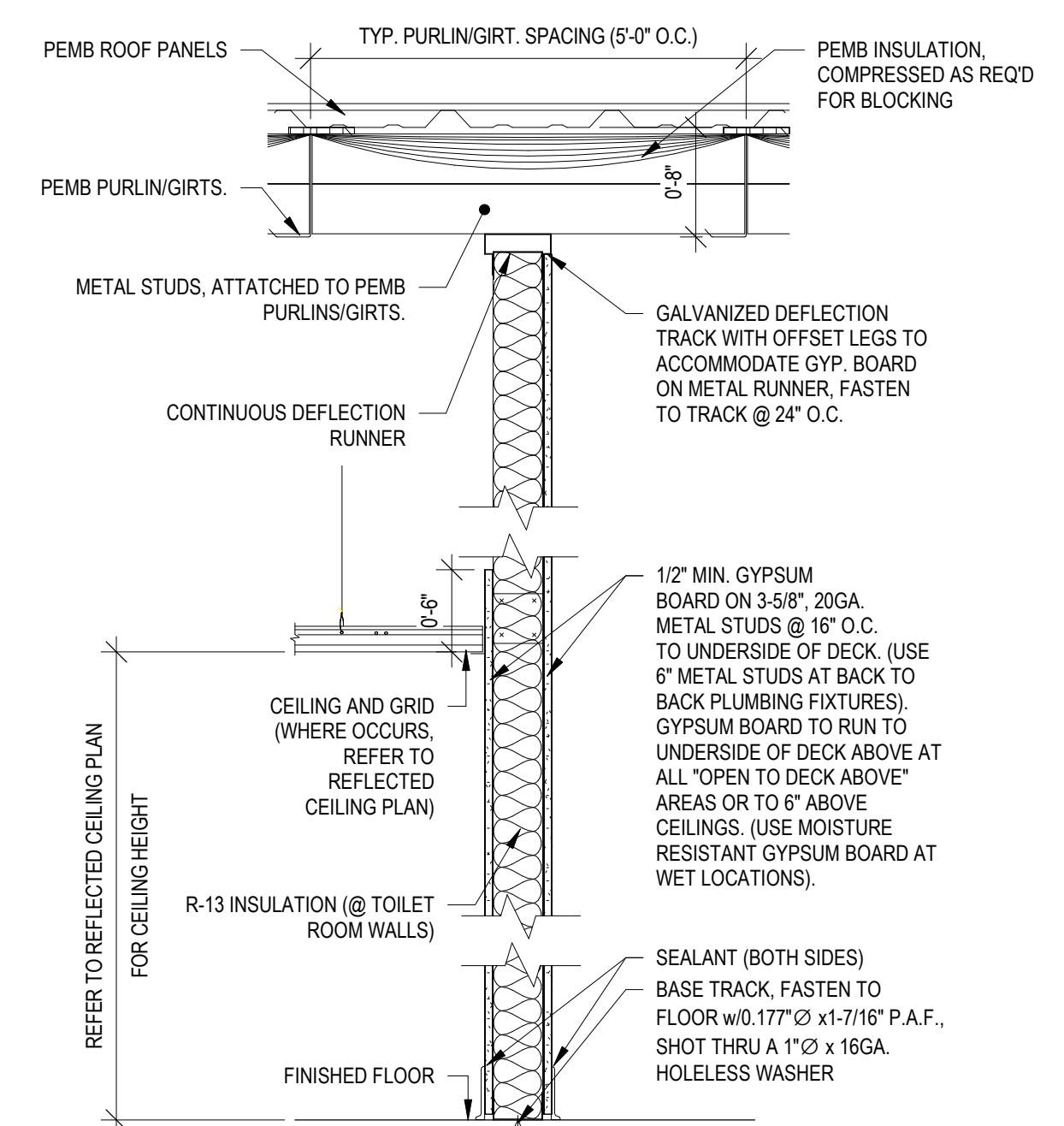
3 Wall Section - Exterior Entry Vestibule
A3 1/2" = 1'-0"



2 Wall Section - Exterior Front
A3 1" = 1'-0"

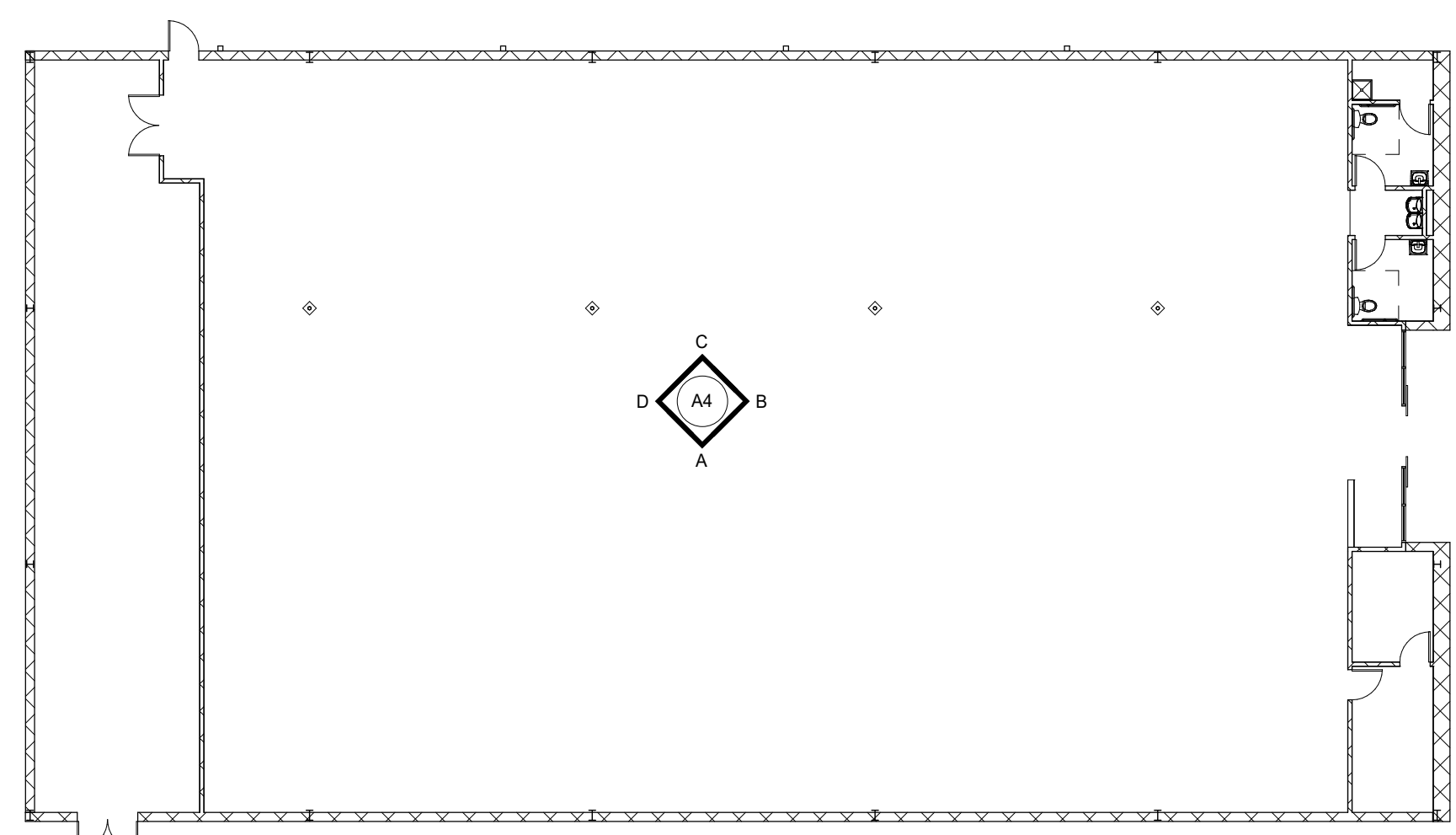


5 Detail at Column, Typ.
A3 1" = 1'-0"



1 Wall Section - Interior Partition to Structure
A3 1" = 1'-0"

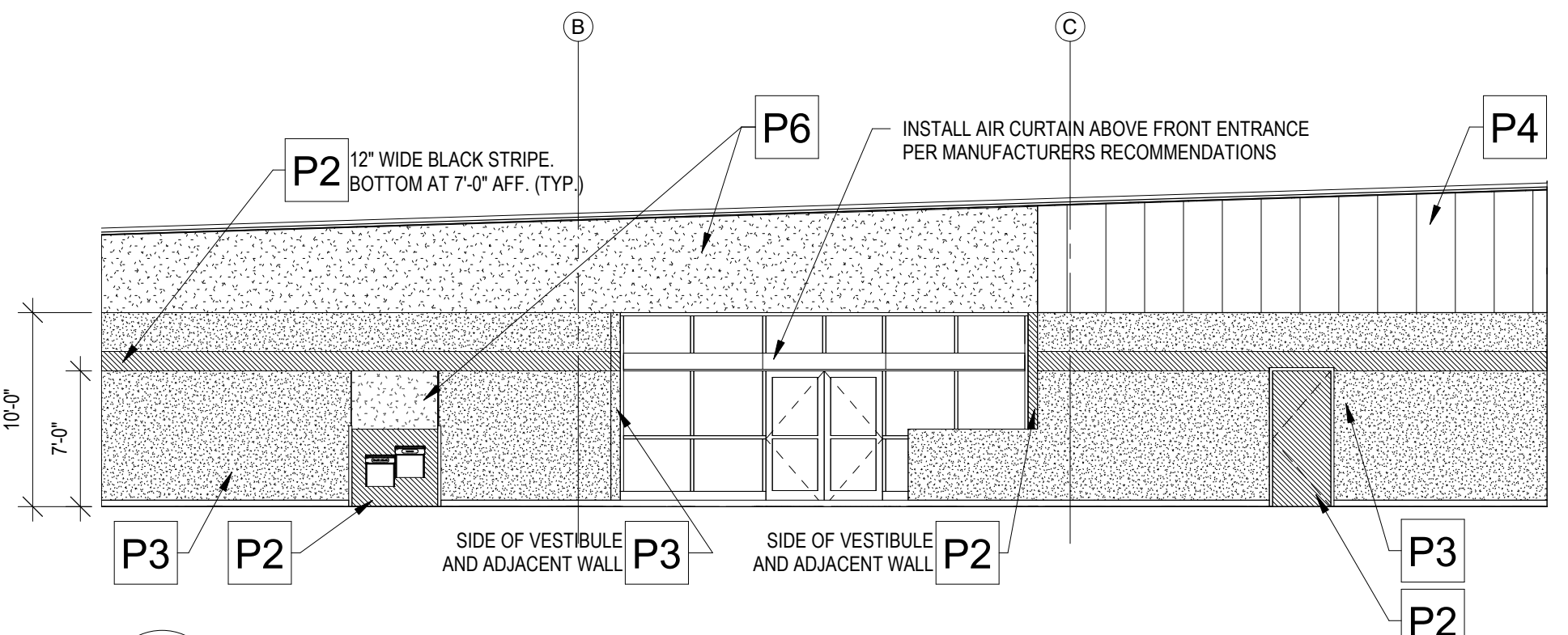
NO	ROOM NAME	FLOOR		BASE		A WALL		B WALL		C WALL		D WALL		CEILING MATERIAL	CEILING FINISH	REMARKS		
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH					
100	BREAK ROOM	CONCRETE FLOOR SEALED	CONCRETE WITH SEALER	4" RUBBER / VINYL BASE	BLACK	GYPSUM BOARD TO 10'-0" A.F.F. WHITE METAL LINER PANELS ABOVE	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" A.F.F. WHITE METAL LINER PANELS ABOVE	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS	EXPOSED TO STRUCTURE ABOVE	PAINT EXPOSED STRUCTURE SHERWIN WILLIAMS - SW7005 PURE WHITE			
101	OFFICE	CONCRETE FLOOR SEALED	CONCRETE WITH SEALER	4" RUBBER / VINYL BASE	BLACK	GYPSUM BOARD TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS	GYPSUM BOARD TO 10'-0" A.F.F. WHITE METAL LINER PANELS ABOVE	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS	EXPOSED TO STRUCTURE ABOVE	PAINT EXPOSED STRUCTURE SHERWIN WILLIAMS - SW7005 PURE WHITE			
102	SALES AREA	CONCRETE FLOOR POLISHED (STEPS 1-9)	POLISHED CONCRETE WITH SEALER	4" RUBBER / VINYL BASE	BLACK	REFER TO INTERIOR ELEVATIONS BELOW										EXPOSED TO STRUCTURE ABOVE	PAINT EXPOSED STRUCTURE SHERWIN WILLIAMS - SW7005 PURE WHITE	SEE INTERIOR ELEVATIONS
103	RECEIVING AREA	CONCRETE FLOOR SEALED	CONCRETE WITH SEALER	N/A	N/A	METAL LINER PANEL FROM FLOOR TO 8'-0" AFF	WHITE	METAL LINER PANEL FROM FLOOR TO 8'-0" AFF	WHITE	METAL LINER PANEL FROM FLOOR TO 8'-0" AFF	WHITE	GYPSUM BOARD TO ROOF DECK.	TAPED, PAINTED AS REQUIRED BY CODE. MTL. LINER PANEL TO DECK AS ALTERNATE	EXPOSED TO STRUCTURE ABOVE	PAINT EXPOSED STRUCTURE SHERWIN WILLIAMS - SW7005 PURE WHITE	FINISH ALL WALLS TO THE ROOF DECK		
104	WOMENS	CONCRETE FLOOR SEALED	SHERWIN WILLIAMS ACRYLIC SILICONE SILK CHOCOLATE HC-117.	4" RUBBER / VINYL BASE	BLACK	GYPSUM BOARD TO ROOF DECK.	8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD TO ROOF DECK.	8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD TO 8'-0" A.F.F.	8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD TO 8'-0" A.F.F.	8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD @ 8'-0" A.F.F.	WHITE			
105	MENS	CONCRETE FLOOR SEALED	SHERWIN WILLIAMS ACRYLIC SILICONE SILK CHOCOLATE HC-117.	4" RUBBER / VINYL BASE	BLACK	GYPSUM BOARD TO 8'-0" A.F.F.	8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD TO ROOF DECK.	8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD TO 8'-0" A.F.F.	8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD TO 8'-0" A.F.F.	8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD @ 8'-0" A.F.F.	WHITE			
107	SERVICE CLOSET	CONCRETE FLOOR SEALED	SHERWIN WILLIAMS ACRYLIC SILICONE SILK CHOCOLATE HC-117.	4" RUBBER / VINYL BASE	BLACK	GYPSUM BOARD TO 8'-0" A.F.F.	4'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD TO ROOF DECK.	4'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE"	GYPSUM BOARD TO 8'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS.	GYPSUM BOARD TO 8'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS.	GYPSUM BOARD @ 8'-0" A.F.F.	WHITE			
108	HALLWAY	CONCRETE FLOOR POLISHED (STEPS 1-9)	POLISHED CONCRETE WITH SEALER	4" RUBBER / VINYL BASE	BLACK	GYPSUM BOARD TO 8'-0" A.F.F.	SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS TO 4" AFF. SHERWIN WILLIAMS - SW7005 PURE WHITE, PRO-MAR LATEX SEMI-GLOSS ABOVE 4" AFF.	GYPSUM BOARD TO 8'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS.	GYPSUM BOARD TO 8'-0" A.F.F.	SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS TO 4" AFF. SHERWIN WILLIAMS - SW7005 PURE WHITE, PRO-MAR LATEX SEMI-GLOSS ABOVE 4" AFF.	GYPSUM BOARD TO 8'-0" A.F.F.	SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS.	GYPSUM BOARD @ 8'-0" A.F.F.	WHITE			
106	VESTIBULE (IF REQUIRED)	POLISHED CONCRETE (STEPS 1-9)	POLISHED CONCRETE WITH SEALER	4" RUBBER / VINYL BASE	BLACK	GYP. BD. TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW7065 ARGOS, PRO-MAR LATEX SEMI-GLOSS.	GYP. BD. TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW6910 DAISY, PRO-MAR LATEX SEMI-GLOSS.	GYP. BD. TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW7065 ARGOS, PRO-MAR LATEX SEMI-GLOSS.	GYP. BD. TO 10'-0" A.F.F.	SHERWIN WILLIAMS - SW7065 ARGOS, PRO-MAR LATEX SEMI-GLOSS.	EXTERIOR GRADE GYP BD @ 10'-0"	WHITE			



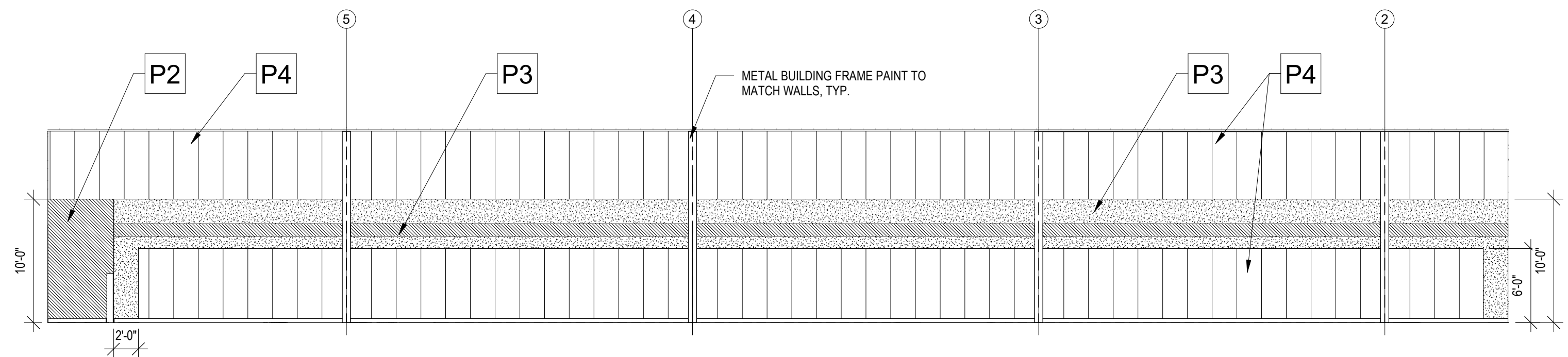
2 FINISH PLAN
A4 1/16" = 1'-0"

NO.	TYPE	SIZE			DOOR HARDWARE	REMARKS
		W	H	T		
100	A	3' - 0"	7' - 0"	0' - 1 3/4"	(1-1/2 PAIR HINGES), (1) FALCON PASSAGE LEVERSET #W101S-DANE-626 - NO KEY REQ'D., (1) HAGER DOOR CLOSER #5400, (1) IVES WALL STOP, #402-1/2B-26D	SOLID CORE WOOD DOOR OR HOLLOW METAL DOOR. PAINTED.
101	B	3' - 0"	7' - 0"	0' - 1 3/4"	(1-1/2 PAIR HINGES), (1) FALCON STOREROOM LEVERSET #W581PD-DANE-626 - KEY #1, (1) HAGER DOOR CLOSER #5400, (1) IVES WALL STOP #402-1/2B-26D, (1) TACO DOOR VIEWER #TA3310PC.	SOLID WOOD DOOR OR HOLLOW METAL DOOR. PAINTED.
102	E	3' - 0"	7' - 0"	0' - 1 3/4"	(1-1/2 PAIR HINGES), (1) VON DUPRIN GUARD-X EXIT ALARM LOCK #2670-28, (1) HAGER DOOR CLOSER #5400, (1) DOOR SWEEP, WEATHERSTRIPPING. (1) 7015SC8-26D RIM CYLINDER, (1) HAGER 8N PULL.	INSULATED METAL DOOR. PAINTED.
103A	C	6' - 0"	7' - 0"	0' - 1 3/4"	(3 PAIR HINGES), (2) BURNS PULL PLATES #5410-32D-26D-GRIP, (2) BURNS PUSH PLATES #54-US32D, (4) IVES KICK PLATES #8400-S32D-8X34, (2) HAGER DOOR CLOSERS #5400, (2) IVES 4" DOOR HOLDER #452B26D-4, (1) IVES WALL STOP #402-1/2B-26D (PROVIDE PANIC HARDWARE IF DOOR IS FIRE RATED.) (NO DOOR HOLDERS IF FIRE-RATED.)	SOLID CORE WOOD DOOR OR HOLLOW METAL DOOR. PAINTED. PROVIDE FIRE RATED DOORS IF REQUIRED.
103B	D	6' - 0"	7' - 0"	0' - 1 3/4"	(3 PAIR HINGES), (1) VON DUPRIN GUARD-X EXIT ALARM LOCK #2670-28, (1) VON DUPRIN GUARD-X DOUBLE DOOR STRIKE #2609, (1) DETEX DOUBLE DOOR HOLDER #DDH-2250 TOP & BOTTOM, (2) HAGER DOOR CLOSERS #5400, (2) BURNS PULL PLATES #5410-32D-26D-GRIP, (1) 2" DOOR SCOPE #DS1000MB, (2) 8" DOOR HOLDERS #608Z, (1) NATIONAL GUARD HD THRESHOLD #425 HD-6 FT, (2) DOOR SWEEPS #770SAV-3FT, WEATHER-STRIPPING HAGER #892SAV. (1) 7015SC8-26D RIM CYLINDER	INSULATED METAL DOOR. PAINTED.
104	A	3' - 0"	7' - 0"	0' - 1 3/4"	(1-1/2 PAIR HINGES), (1) FALCON STOREROOM LEVERSET #W581PD-DANE-626 - KEY #2, (1) HAGER DOOR CLOSER #5400, (1) IVES WALL STOP #402-1/2B-26D.	SOLID CORE WOOD DOOR OR HOLLOW METAL DOOR. PAINTED.
105	A	3' - 0"	7' - 0"	0' - 1 3/4"	(1-1/2 PAIR HINGES), (1) FALCON STOREROOM LEVERSET #W581PD-DANE-626 - KEY #2, (1) HAGER DOOR CLOSER #5400, (1) IVES WALL STOP #402-1/2B-26D.	SOLID CORE WOOD DOOR OR HOLLOW METAL DOOR. PAINTED.
106	F	6' - 0"	7' - 0"	0' - 1 3/4"	BY DOOR MANUFACTURER TO BE RE-KEYED BY DOLLAR GENERAL AREA MANAGER WITH (1) ILCO RIM CYLINDER #7015SC8-26D.	21'-0" BI-PART WITH TRANSOM AND GLASS. BRONZE FINISH
107	A	3' - 0"	7' - 0"	0' - 1 3/4"	(1-1/2 PAIR HINGES), (1) FALCON STOREROOM LEVERSET #W581PD-DANE-626 - KEY #2, (1) HAGER DOOR CLOSER #5400, (1) IVES 4" DOOR HOLDER #452B26D-4, (1) IVES WALL STOP #402-1/2B-26D.	SOLID CORE WOOD DOOR OR HOLLOW METAL DOOR. PAINTED.

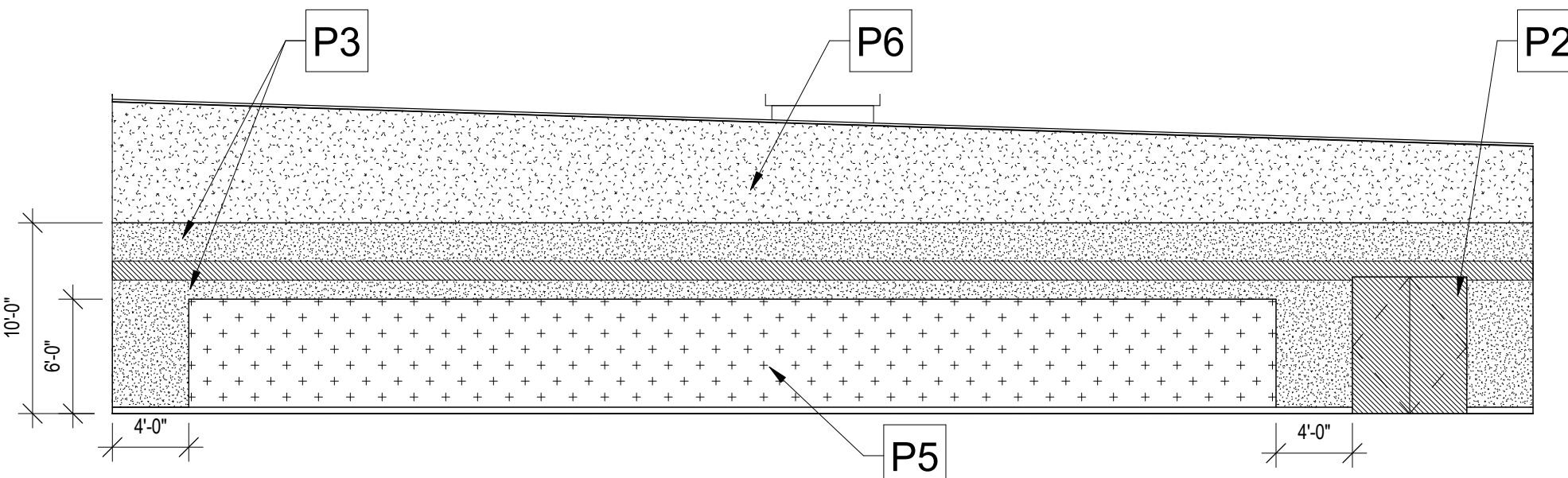
NOTE:
INTERIOR HOLLOW METAL FRAMES AND INTERIOR DOORS TO BE PAINTED SW 6991 BLACK MAGIC (SEMI-GLOSS).
EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE PAINTED SW 7041 VAN DYKE BROWN. THE INTERIOR SIDE TO BE PAINTED SW 6991 BLACK MAGIC.



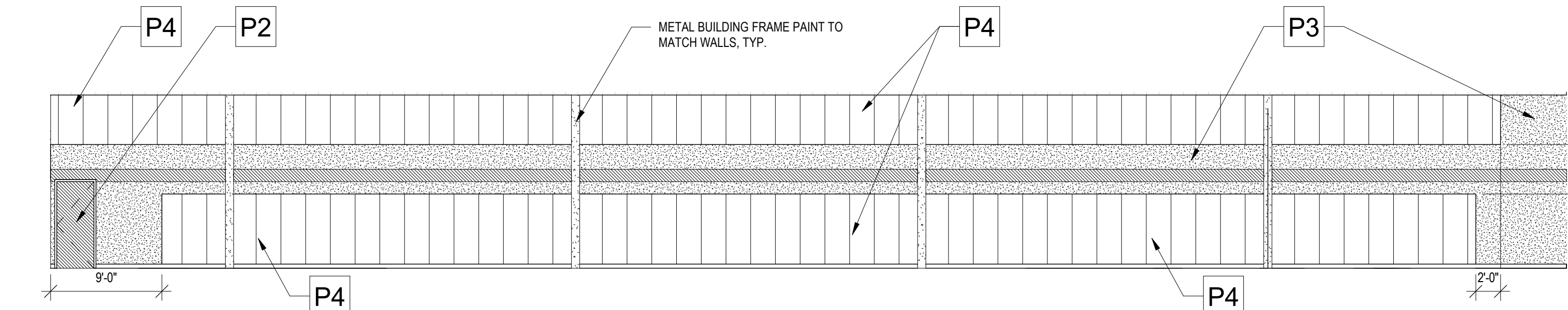
B ELEVATION WALL B
A4 1/8" = 1'-0"



A ELEVATION WALL A
A4 1/8" = 1'-0"



D ELEVATION WALL D
A4 1/8" = 1'-0"



C ELEVATION WALL C
A4 1/8" = 1'-0"

WALL PAINT LEGEND

- P1** SW6910 "DAISY"
- P2** SW6991 "BLACK MAGIC"
- P3** SW7065 "ARGOS"
- P4** EXPOSED PREFINISHED METAL LINER PANELS
- P5** DENOTES GYPSUM BOARD TAPED AND MUDDED ONLY
- P6** SW7005 "PURE WHITE"

ALL EXPOSED STRUCTURE AT ROOF TO BE PAINTED P6

ISSUED FOR PERMIT
1 06/01/2023

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BASOM - NEW YORK

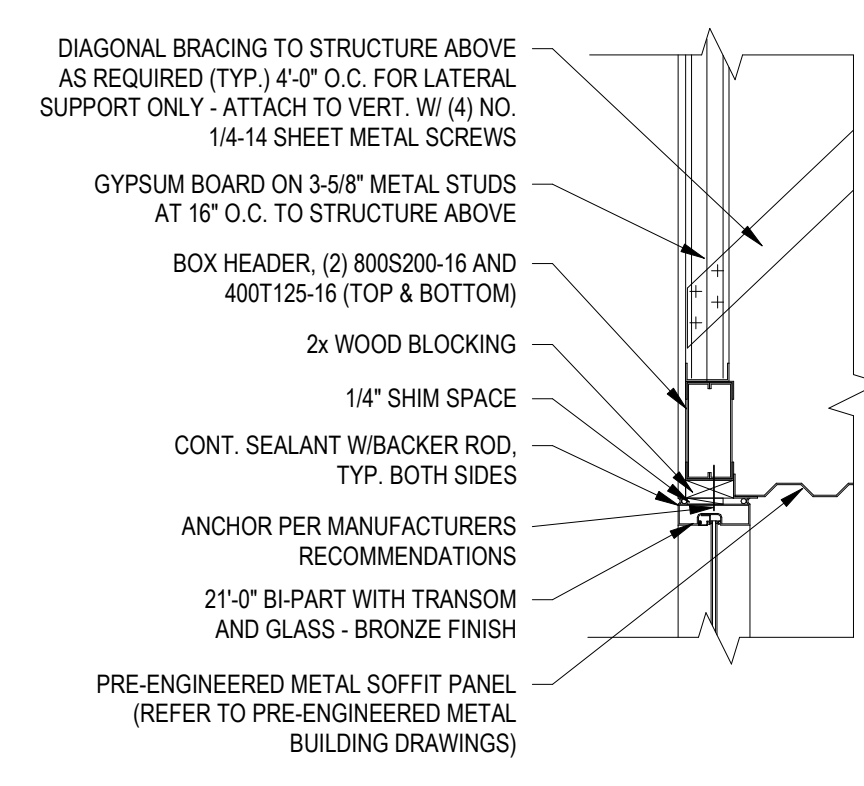


DOLLAR GENERAL

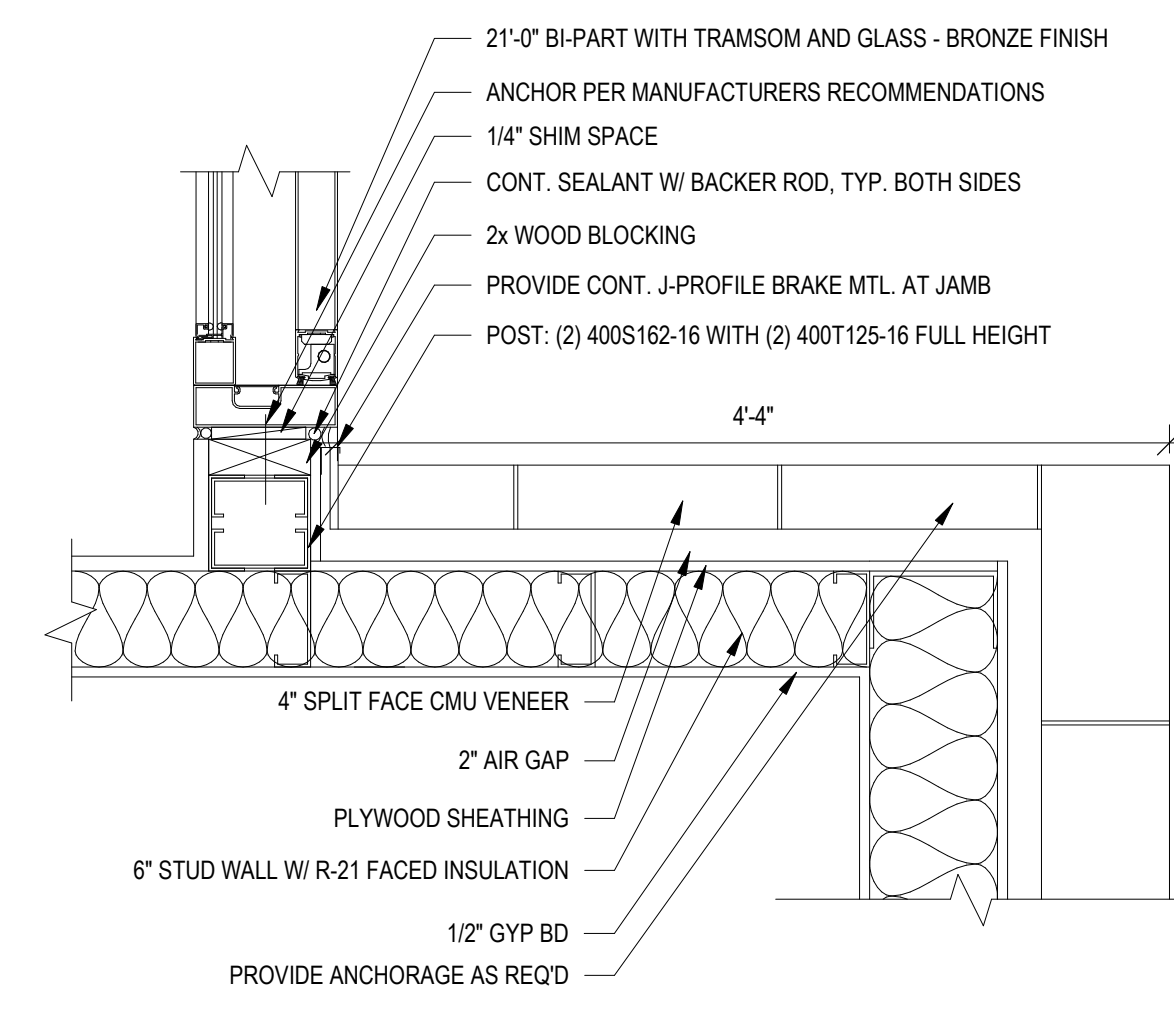


DATE: 04/07/2023
DRAWING TITLE: SCHEDULES
SCALE: AS NOTED
SHEET NO.

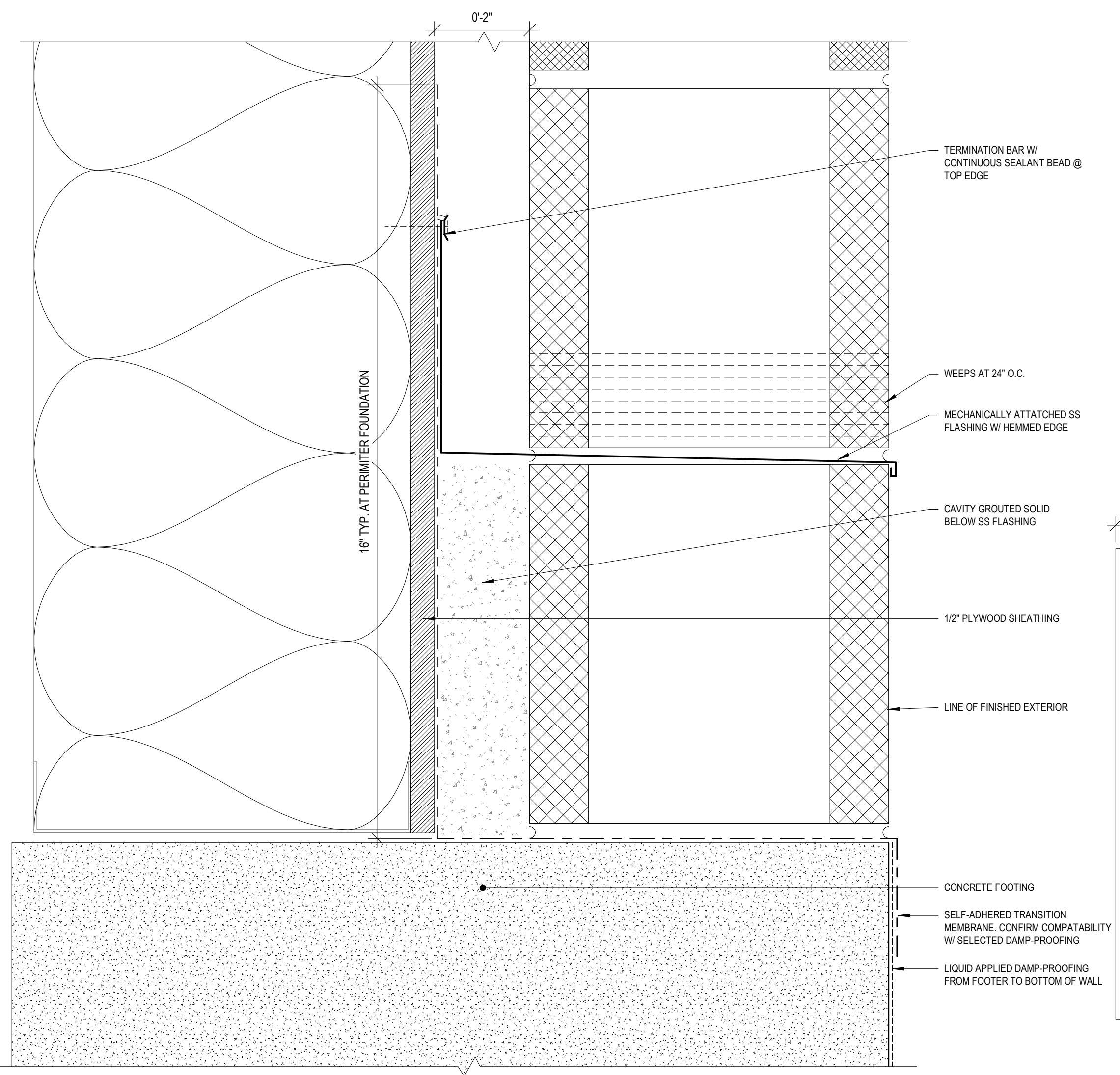
A4



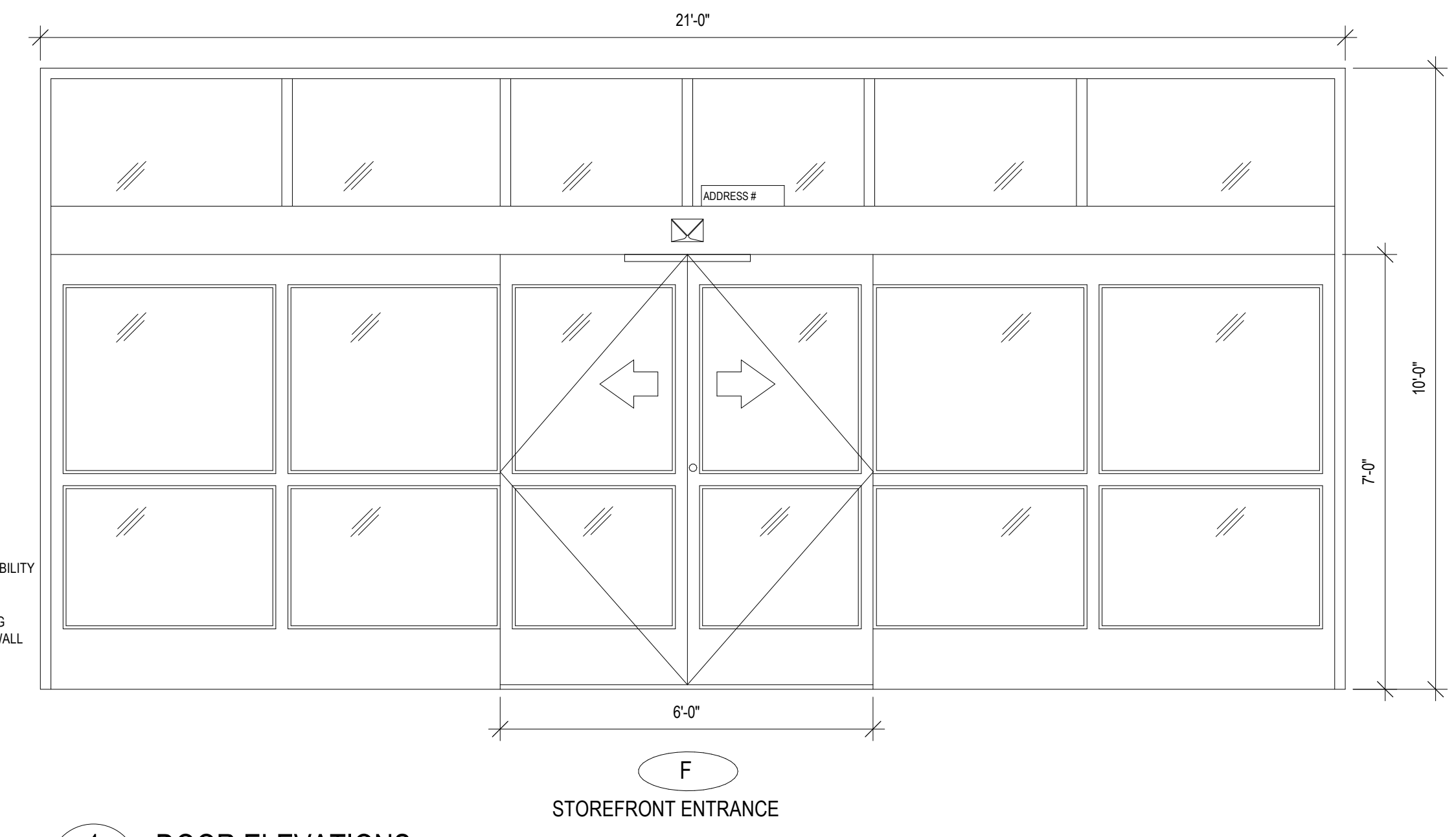
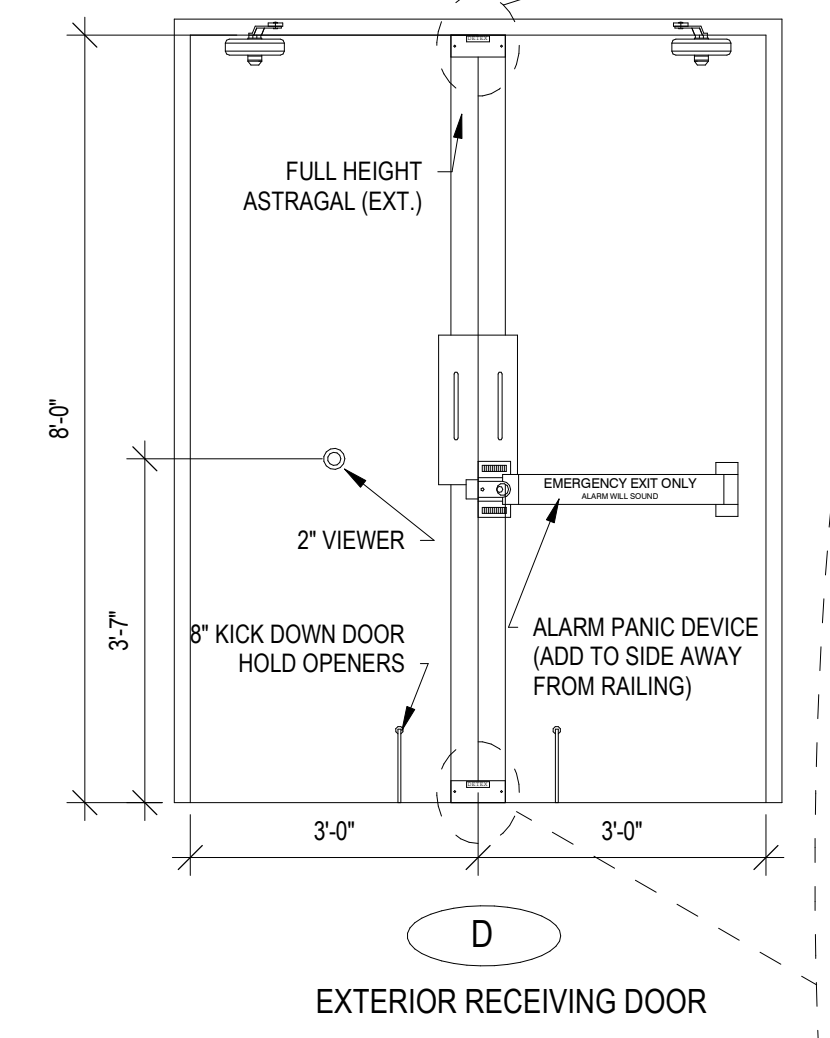
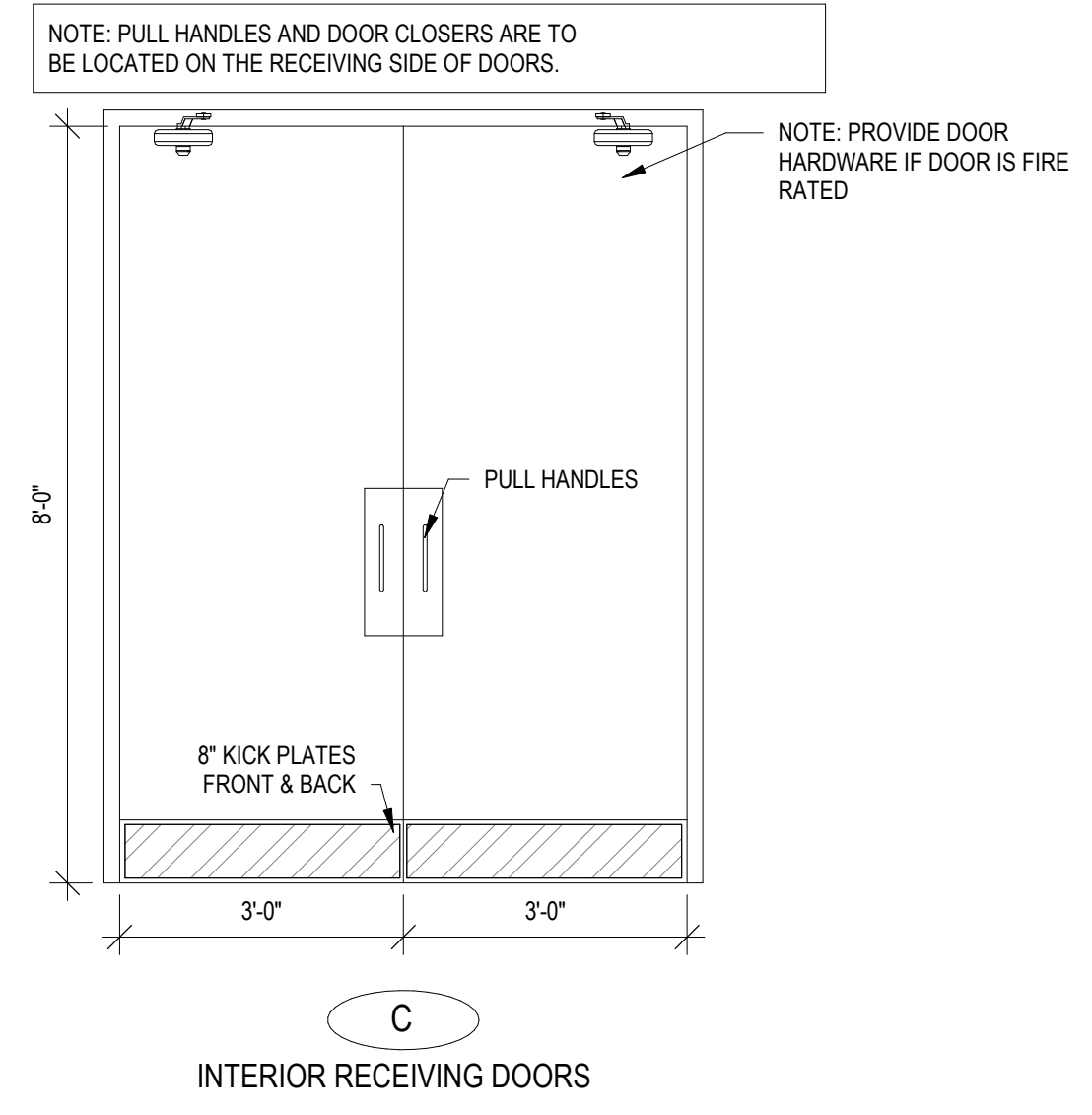
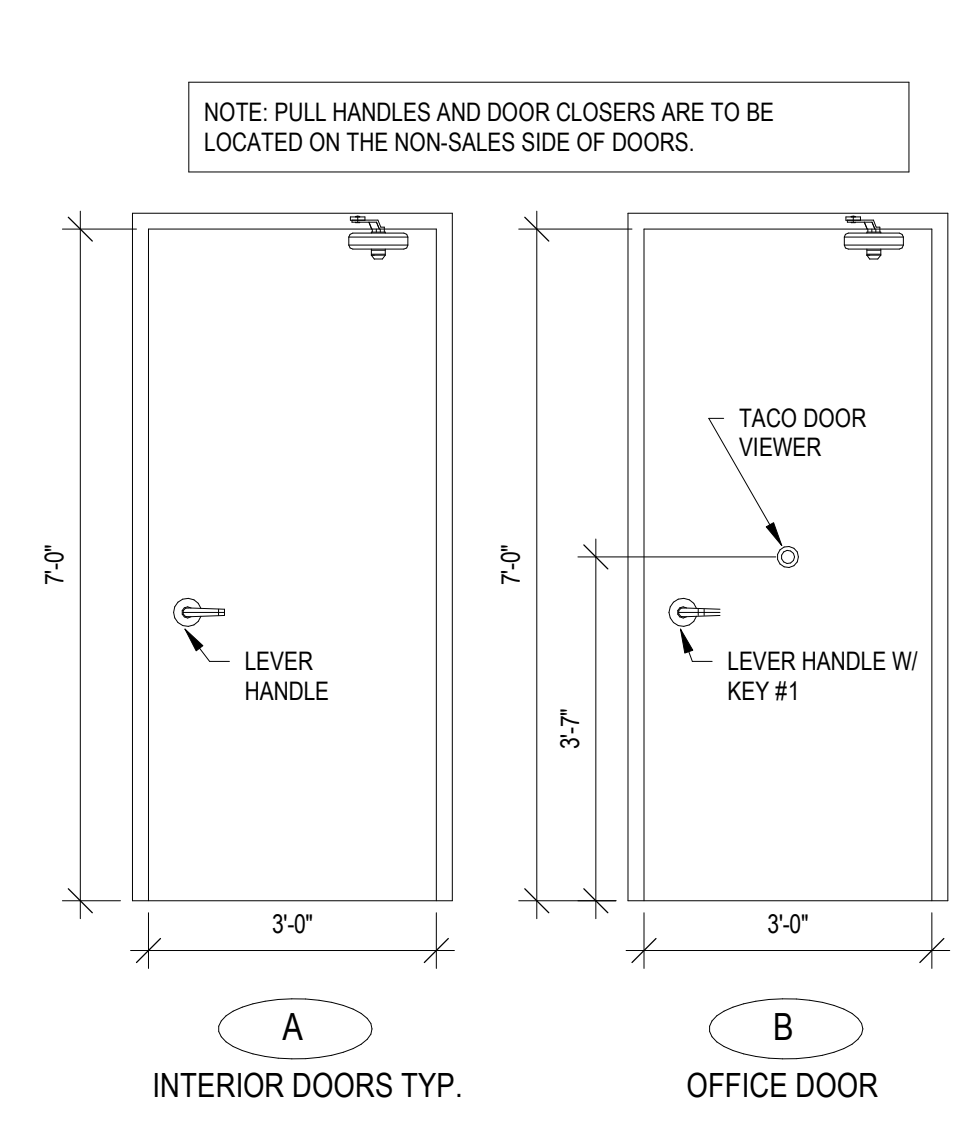
4 HEAD DETAIL
A5 1" = 1'-0"



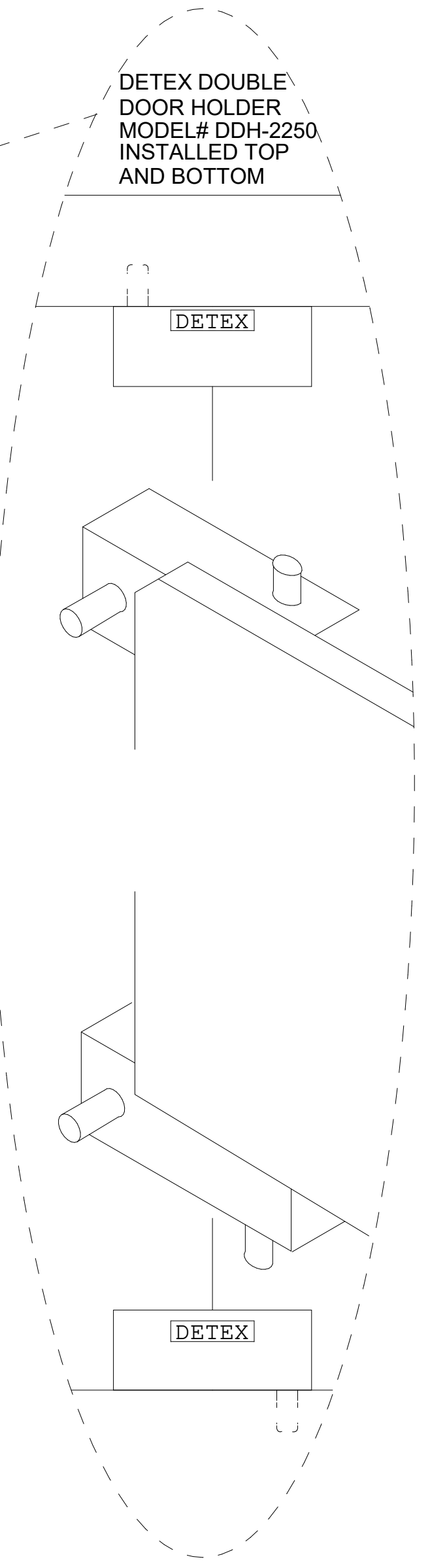
3 JAMB DETAIL
A5 1" = 1'-0"



2 Base Section Detail - Overlap Diagram
A5 6" = 1'-0"

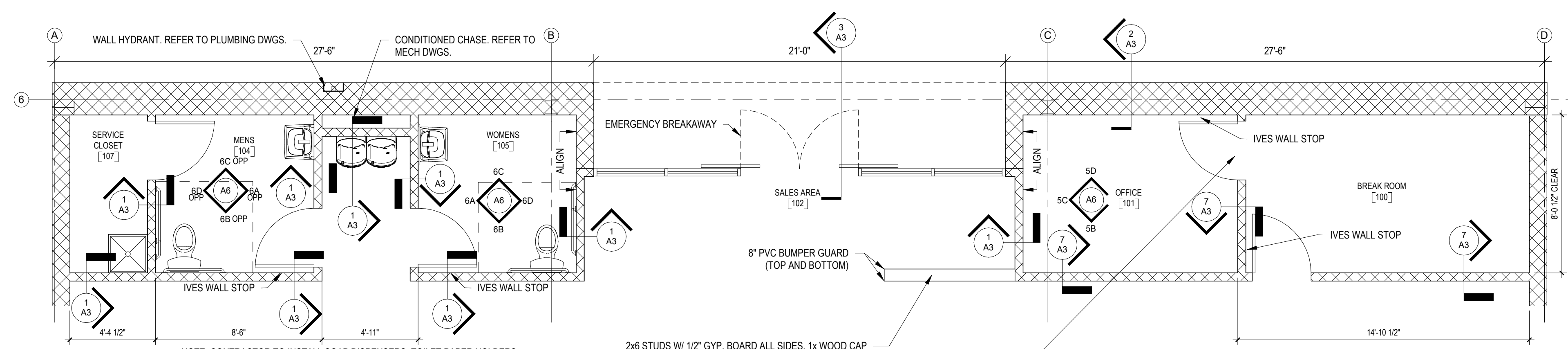


1 DOOR ELEVATIONS
A5 1/2" = 1'-0"

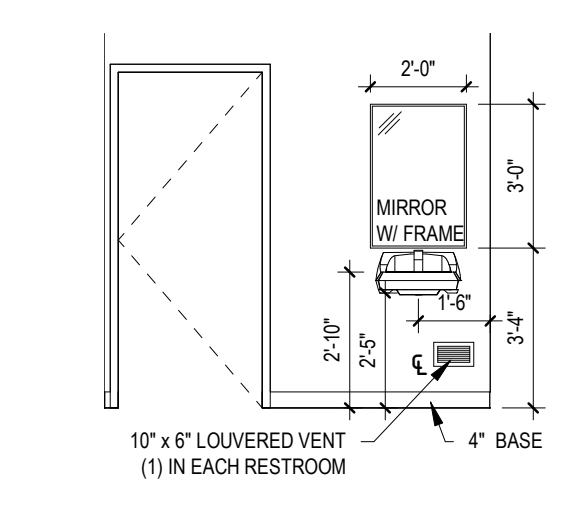


888-774-3400 EXT. 925	
TOILET ACCESSORIES	
B2740	BOBRICK DOUBLE TOILET TISSUE DISPENSER
B253	BOBRICK PAPER TOWEL DISPENSER
A-24x36	GAMCO 24" x 36" ANGLE FRAME MIRROR
150Sx36	GAMCO 1 1/2" X 36" GRAB BAR
150Sx42	GAMCO 1 1/2" X 42" GRAB BAR
150Sx18	GAMCO 1 1/2" X 18" GRAB BAR
MS-1	GAMCO MOP HOLDER

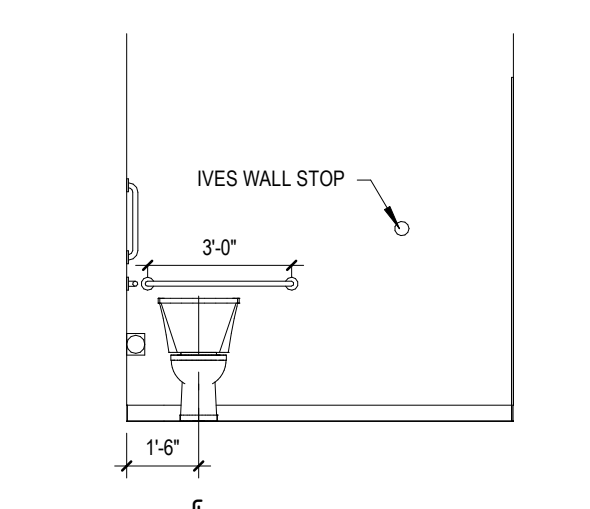
CONTRACTOR TO INSTALL SOAP DISPENSERS, TOILET PAPER HOLDERS, DOOR CLOSERS, DOOR HOLDERS, EXHAUST FANS, AND ALL TOILET ACCESSORIES IN BOTH RESTROOMS. PROVIDE ALL NECESSARY WOOD BLOCKING FOR ACCESSORIES.



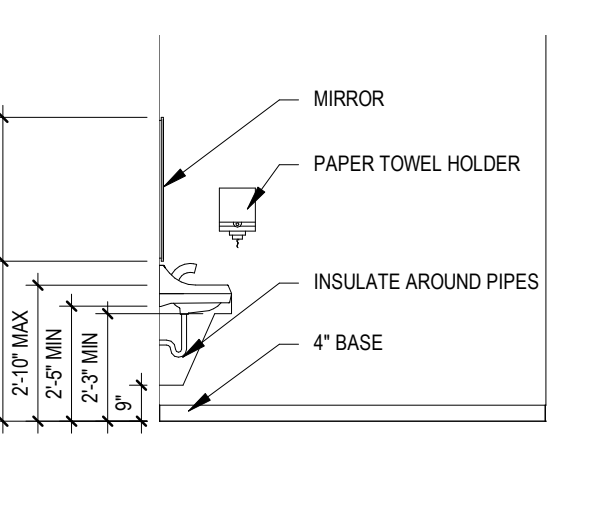
6 Restroom/Office Plan
A6 1/4" = 1'-0"



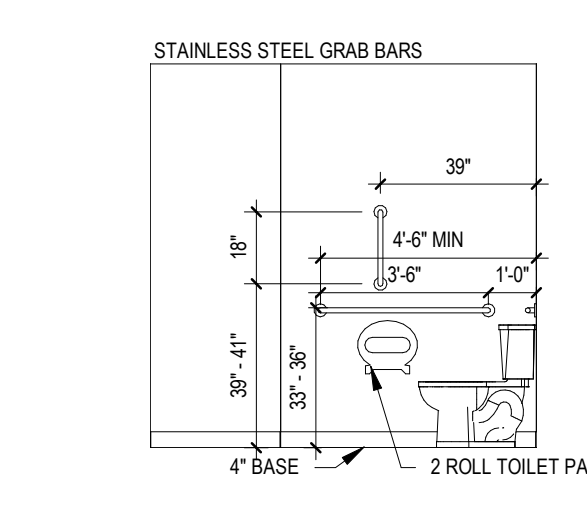
6A Restroom Elevation A
A6 1/4" = 1'-0"



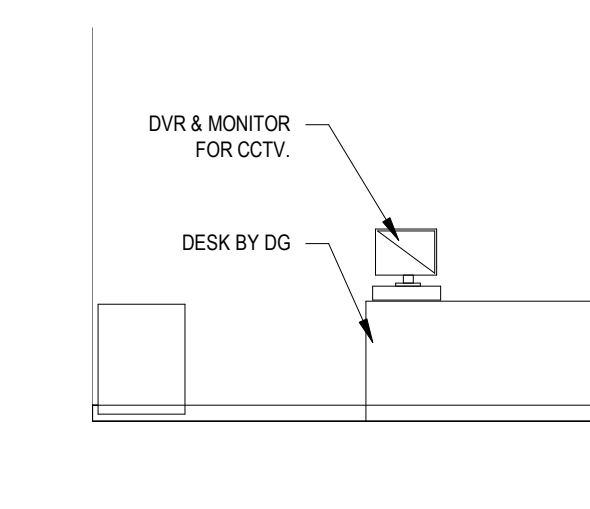
6B Restroom Elevation B
A6 1/4" = 1'-0"



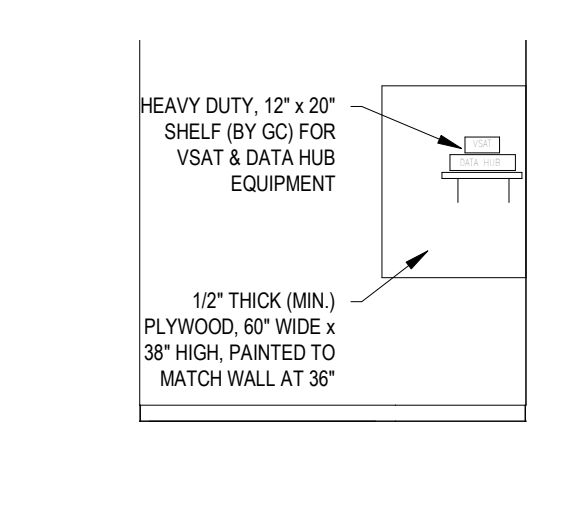
6C Restroom Elevation C
A6 1/4" = 1'-0"



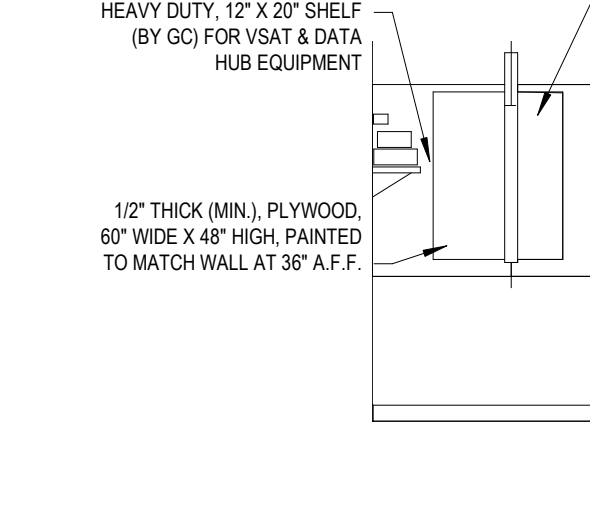
6D Restroom Elevation D
A6 1/4" = 1'-0"



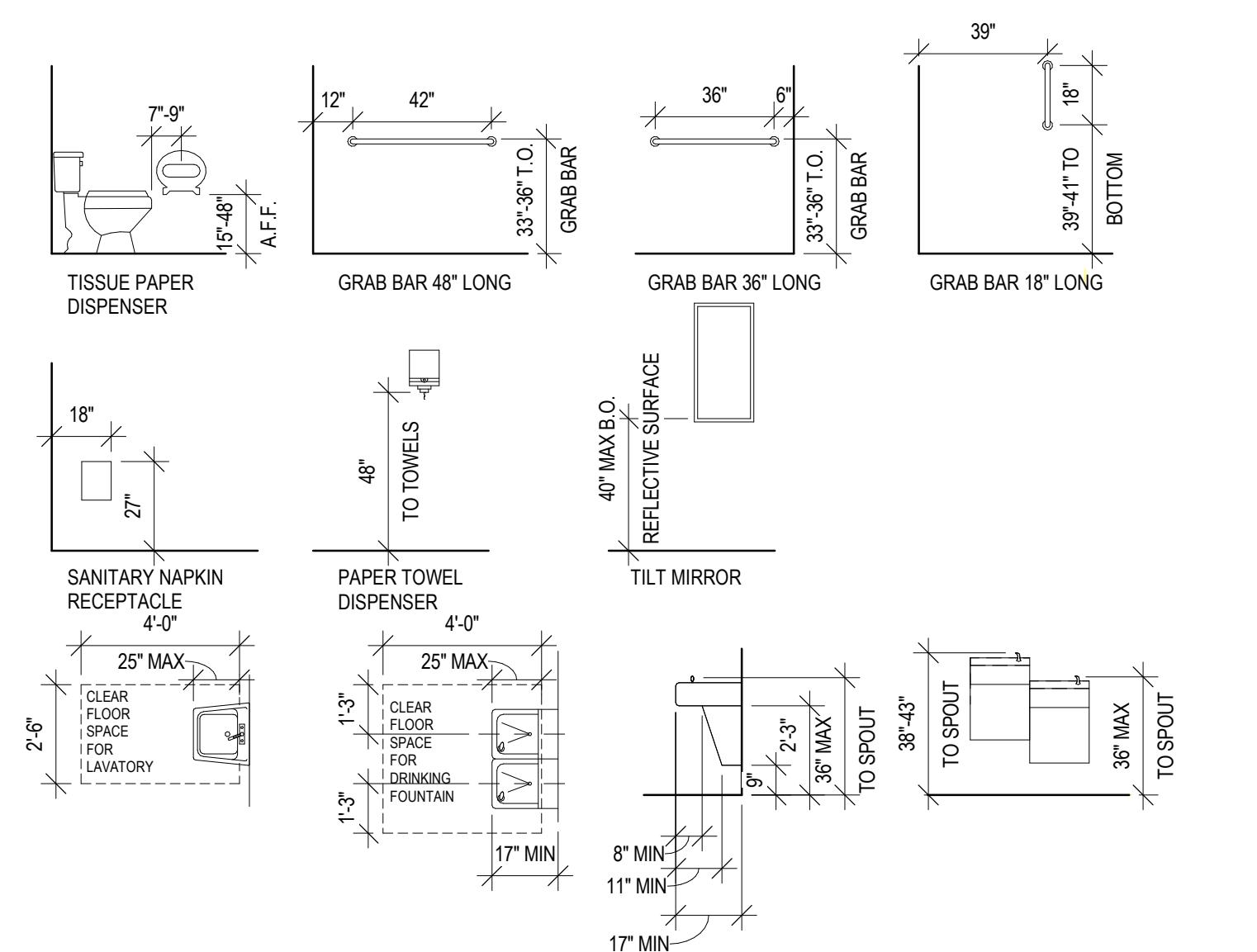
5B Office Elevation B
A6 1/4" = 1'-0"



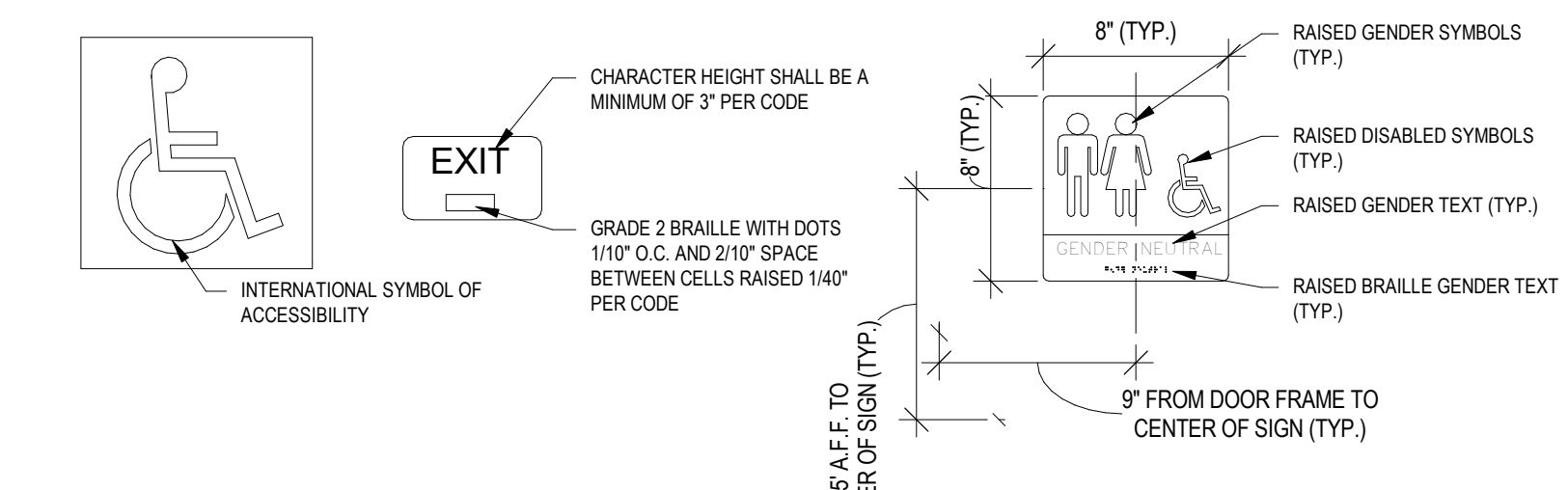
5C Office Elevation C
A6 1/4" = 1'-0"



5D Office Elevation D
A6 1/4" = 1'-0"



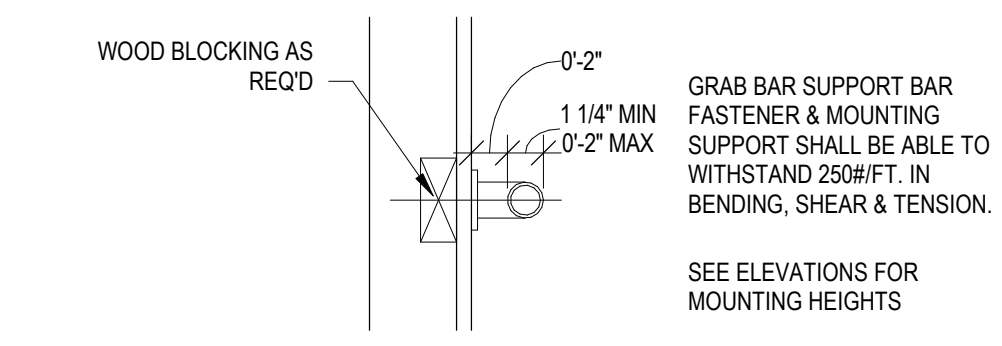
4 ADA CLEARANCES
A6 1/4" = 1'-0"



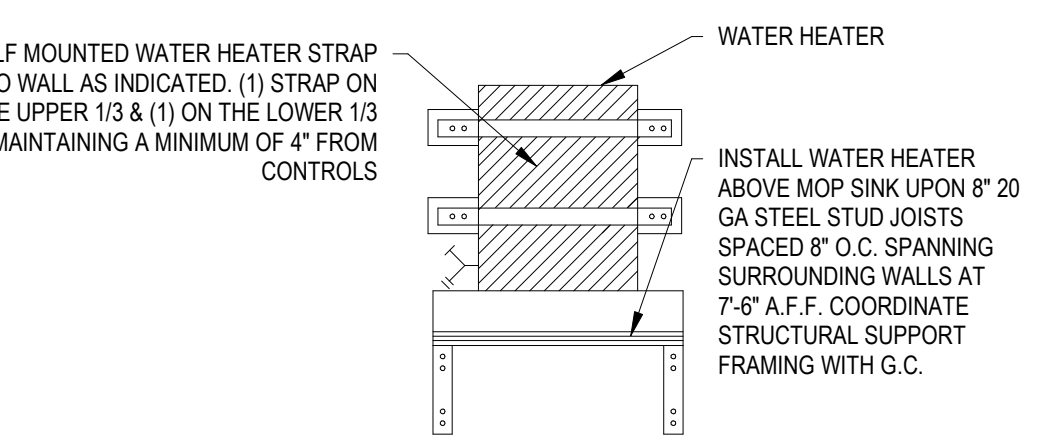
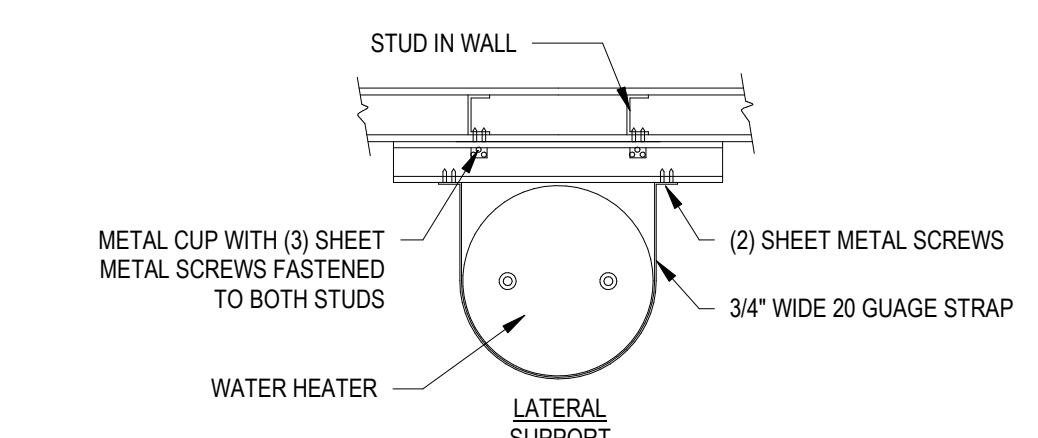
NOTES:

- SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE STRINGENT.
- ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
- G.C. TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS PER CODE.
- SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST WALL PREFERABLY ON THE RIGHT. SIGNAGE SHALL HAVE NON GLARE FINISH W/ A CONTRASTING BACKGROUND. SEE A1 FOR LOCATION OF SIGNAGE.

3 ACCESSIBLE SIGNAGE
A6 1 1/2" = 1'-0"



2 GRAB BAR DETAIL
A6 1 1/2" = 1'-0"



1 WATER HEATER SHELF DETAIL
A6 1/8" = 1'-0"

REVISIONS:
1 06/01/2023 Issued for Permit

STORE 25355
7174 ALLEGHANY RD
BASOM - NEW YORK



DOLLAR GENERAL



DATE: 04/07/2023
DRAWING TITLE: RESTROOM DETAILS
SCALE: AS NOTED
SHEET NO.

A6

Building Signs				
Sign Size	Sign Weight	# Of Circuits	Amps	Voltage
3'-9" x 26" box	441 lbs.	(1) 15 A	5	115
4'-6" x 33'-3" box	750 lbs.	(1) 15 A	8.4	115

Building Letters				
Sign Size	Sign Weight	# Of Circuits	Amps	Voltage
18"	215 lbs.	(2) 15 A	19.6	115
24"	288 lbs.	(1) 15 A & (1) 20 A	23.45	115
30"	387 lbs.	(2) 20 A	28	115
36"	649 lbs.	(2) 15 A & (1) 20 A	32.9	115

Pylon Signs				
Sign Size	Sign Weight	# Of Circuits	Amps	Voltage
4' x 8'	188 lbs.	(1) 15 A	1.7	115
5' x 10'	375 lbs.	(1) 15 A	3.4	115
6' x 16'	738 lbs.	(1) 15 A	5	115

SIGN SPECIFICATIONS

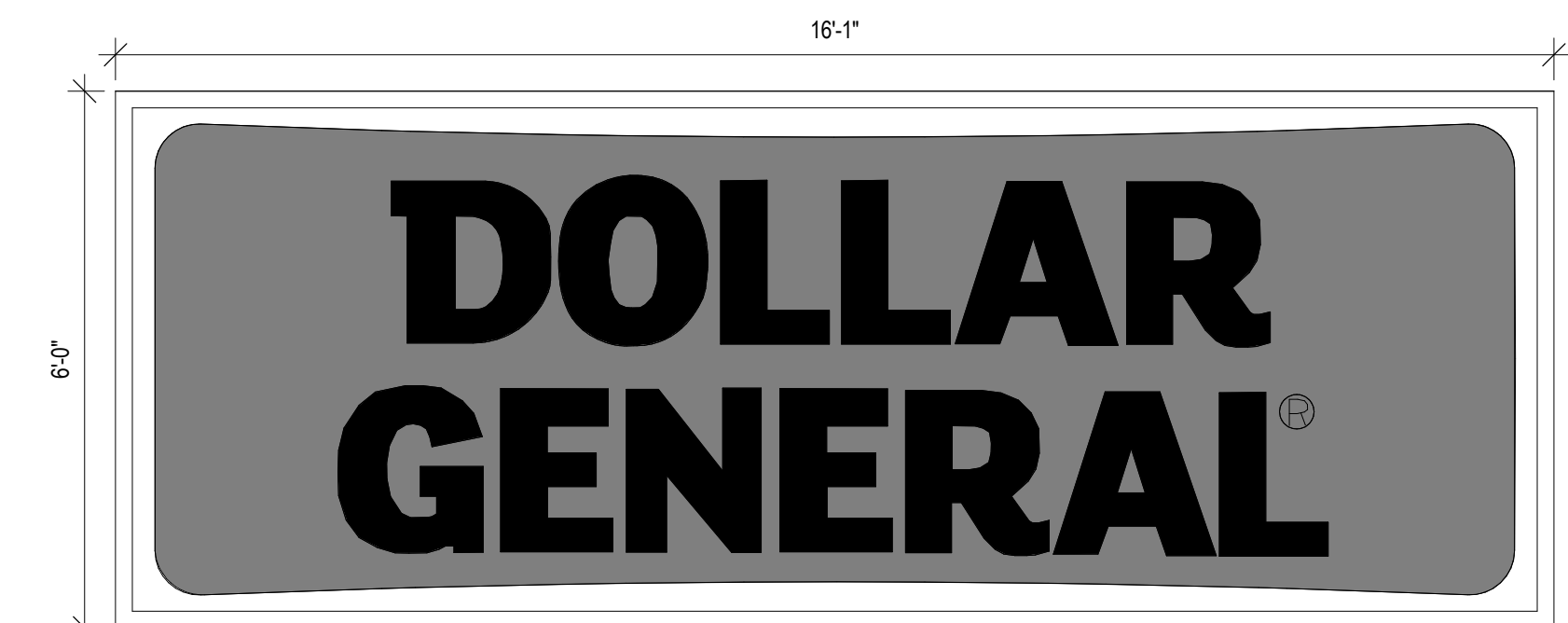
1. BUILDING SIGNS: PROVIDE CONDUIT AND WIRE FROM ELECTRICAL PANEL TO THE SIGN CANOPY. THE CONDUIT IS TO BE 1" AND HAVE ONE SET OF 10/2 WIRE WITH GROUND. BUILDING CANOPY MUST BE SUFFICIENTLY BUILT TO SUPPORT THE DOLLAR GENERAL SIGN OF UP TO 1400 LBS. NOTE: IF THE LEASE SPECIFIES A 5'-0" X 40'-0" BUILDING SIGN OR 24" LETTER SET (OR LARGER), 2 qty. - 10/2 WIRE WITH GROUND.
2. PYLON SIGNS: PROVIDE CONDUIT FROM ELECTRICAL PANEL TO LOCATION OF THE PYLON SIGN BASE. BURY CONDUIT UNDER PARKING AREA. THE CONDUIT IS TO BE 1" AND HAVE ONE SET OF 10/2 WIRE WITH GROUND.
3. FINAL ELECTRICAL CONNECTIONS FOR SIGN SHALL BE THE SIGN VENDORS RESPONSIBILITY SINCE THE 'J' BOX AND WIRES ARE IN PLACE.
4. SEE CHART ABOVE FOR SIGN SPECIFICATIONS.
5. SEE SHEET A8 FOR SIGN BRACING DETAILS.
6. PYLON SIGN CABINETS TO CLEAR 15' FROM GRADE AND EDGE SHALL BE LOCATED NO CLOSER THAN 10' TO ANY OVERHEAD UTILITY LINES.



THIS SIGN IS TO BE PROVIDED AND INSTALLED BY THE DEVELOPER OR CONTRACTOR AT THE BEGINNING OF CONSTRUCTION PROJECT.

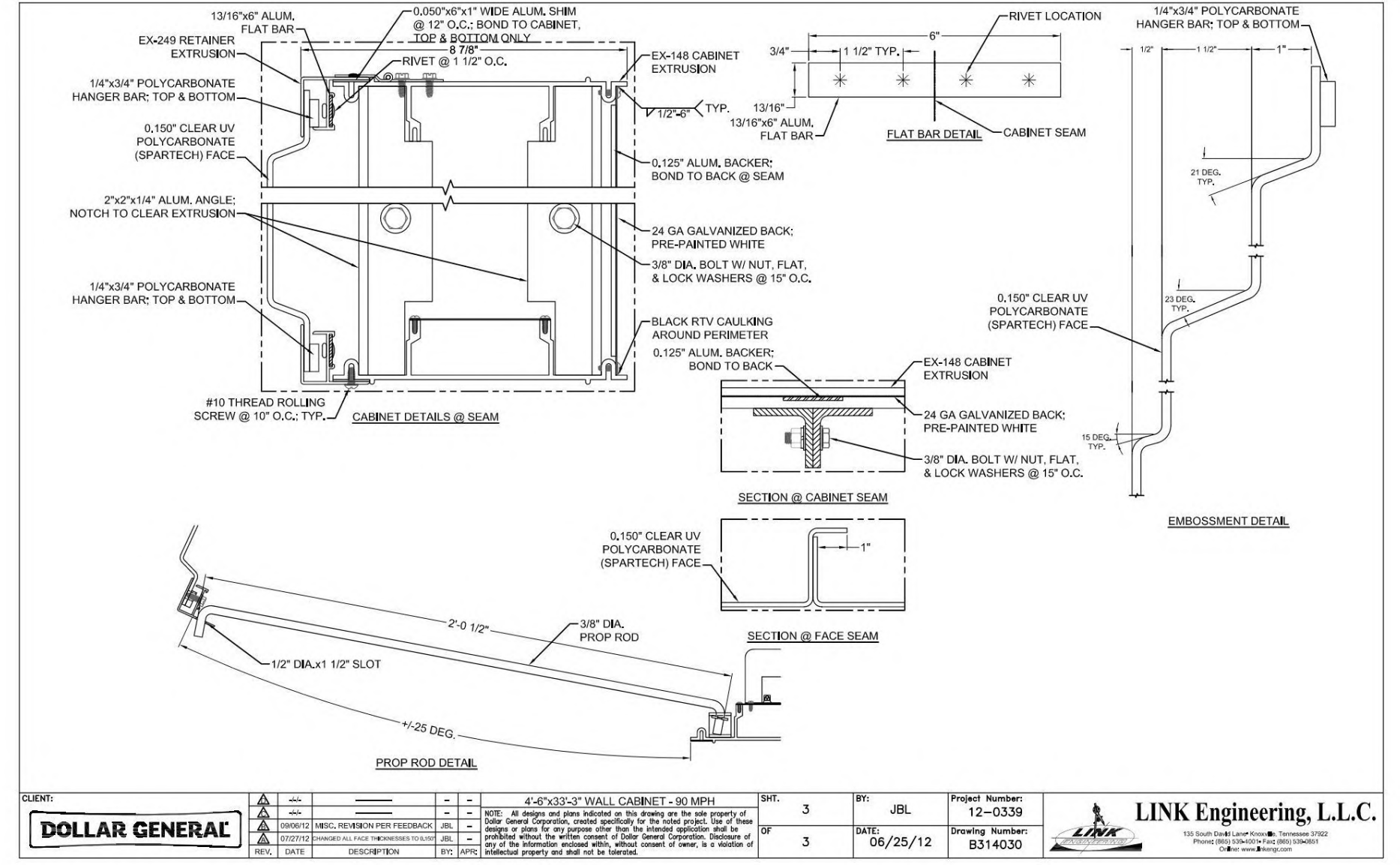
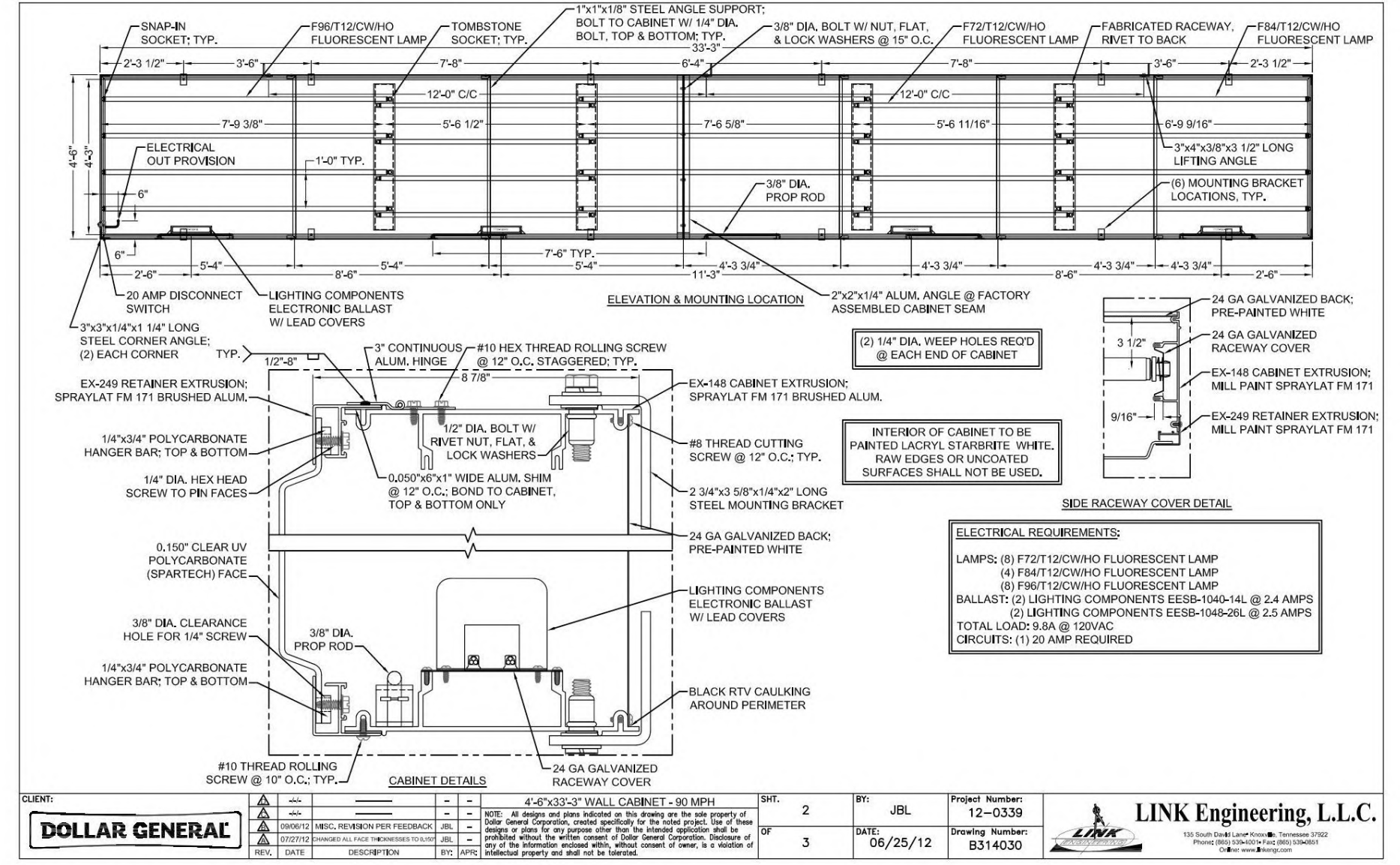
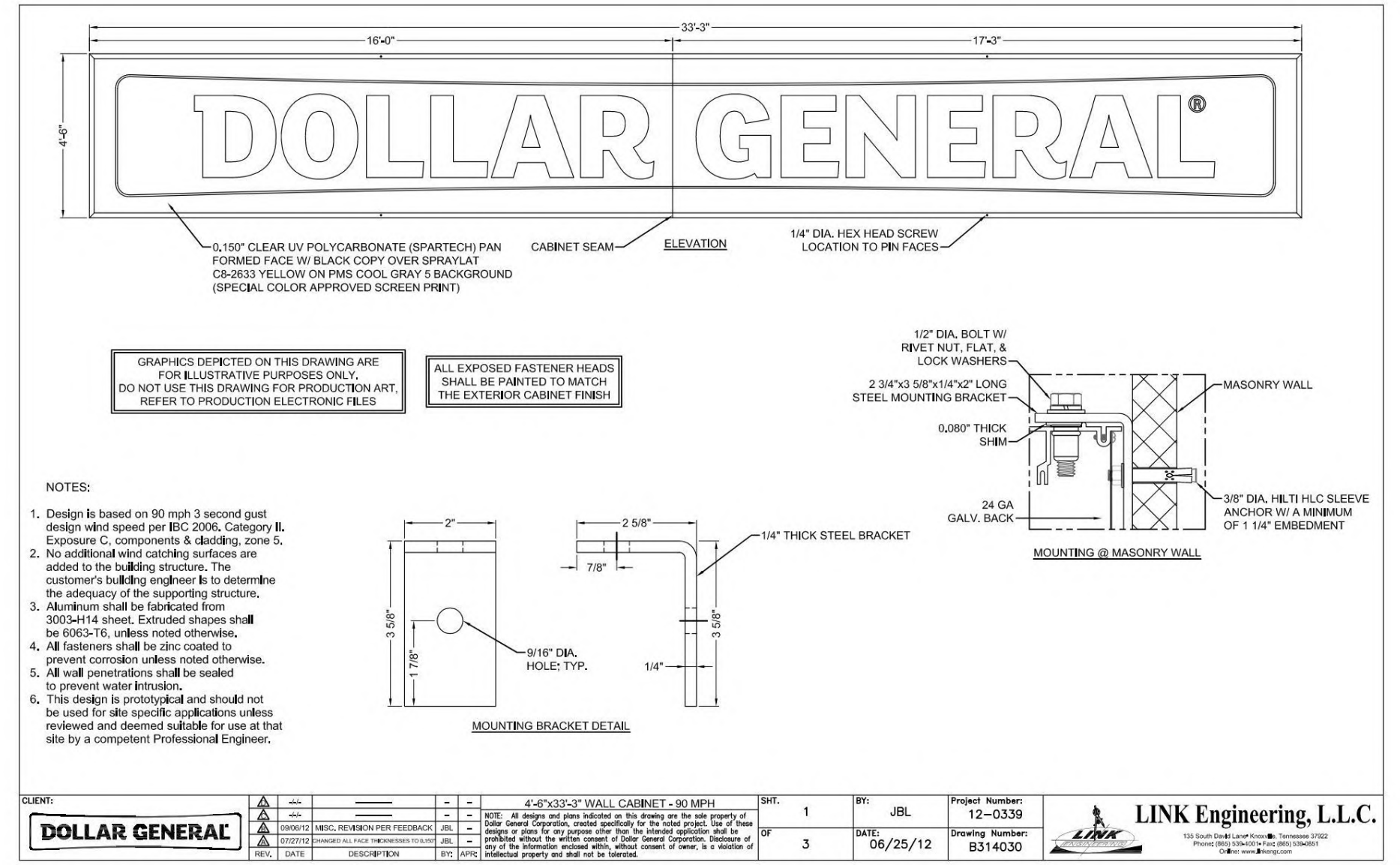


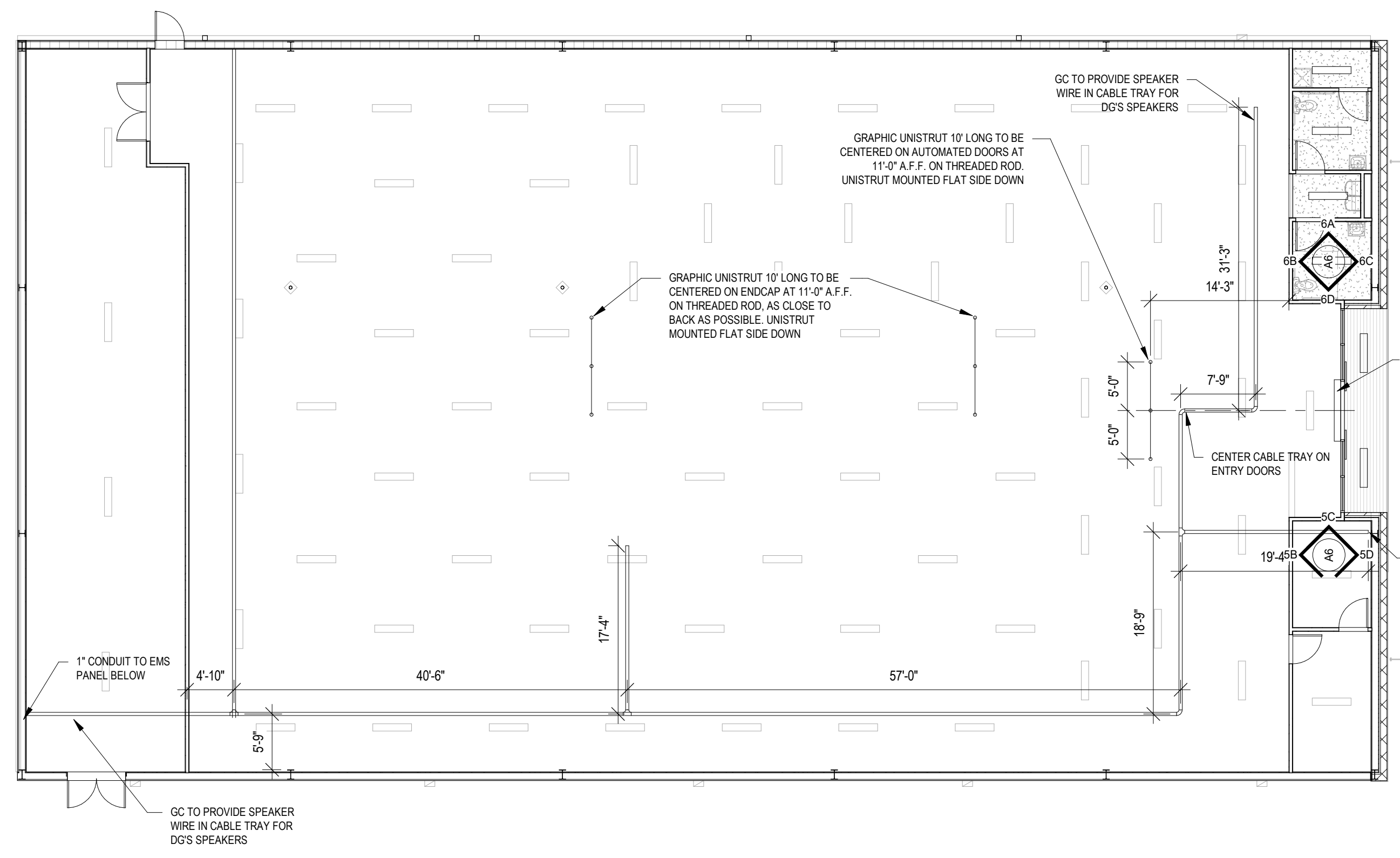
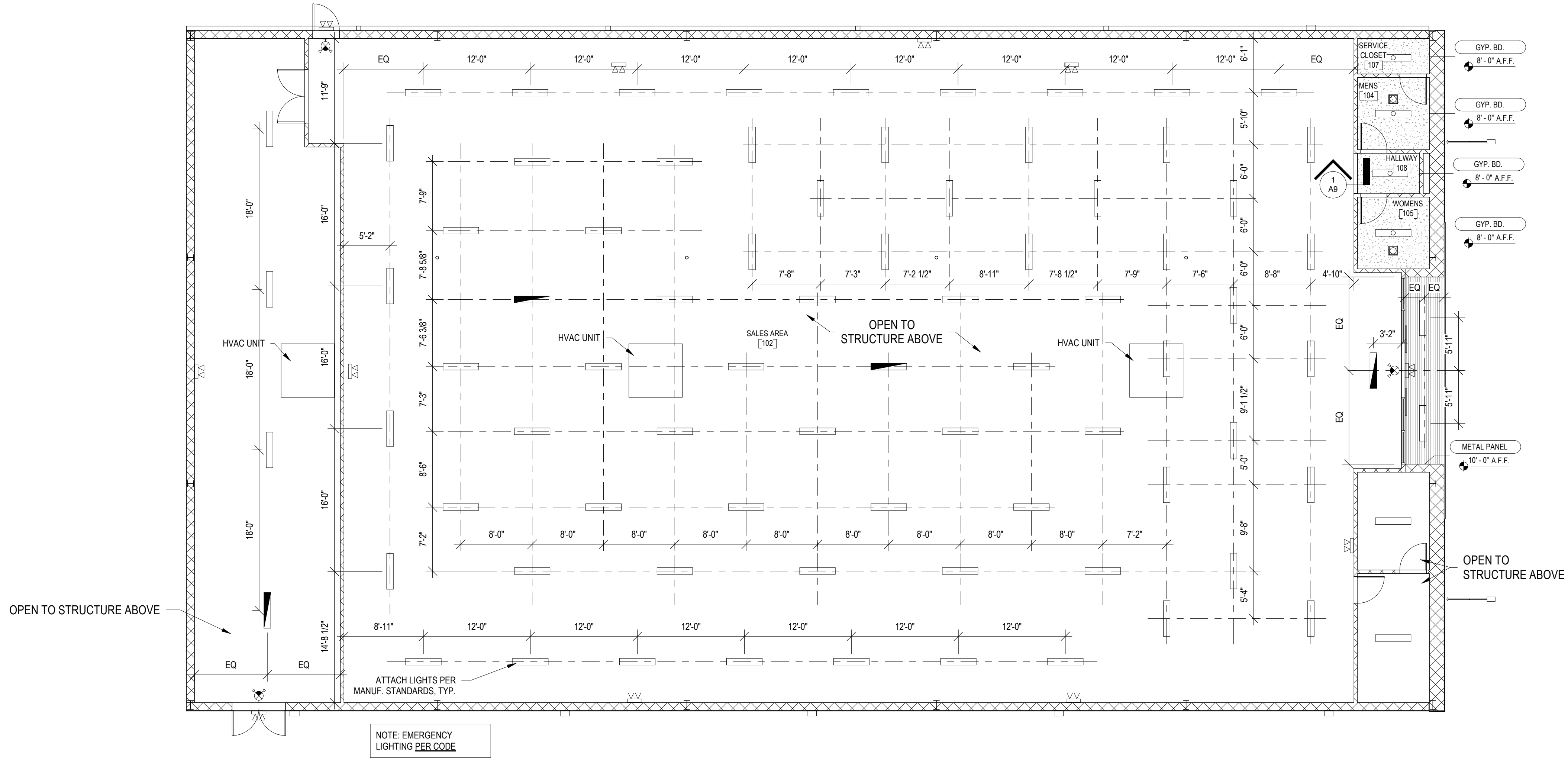
PROTOTYPICAL MAIN BUILDING SIGN FOR 'C' & 'D' SCHEMES



THIS IS THE PRIMARY PYLON SIGN FOR ALL LOCATIONS.

1 SIGN ELEVATIONS
A7 1/2" = 1'-0"



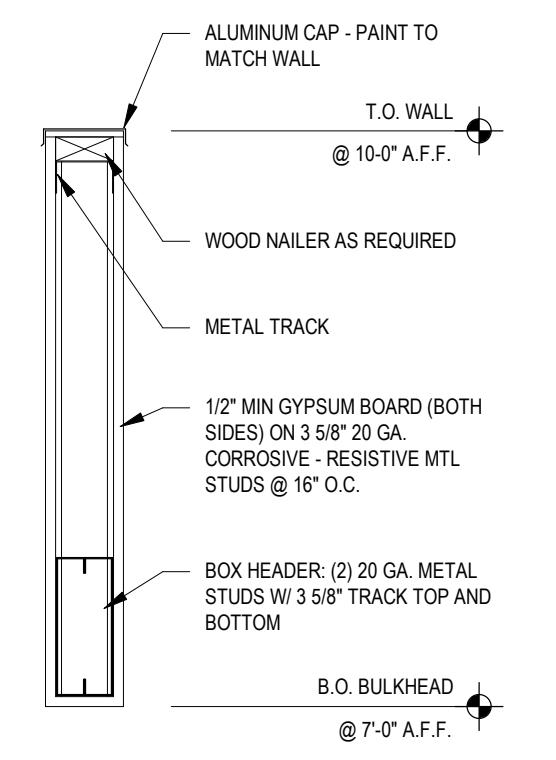


REFLECTED CEILING PLAN LEGEND

- EXTERIOR DOWNLIGHT
- EXTERIOR WALLPACK
- LIGHT FIXTURE
- LIGHT FIXTURE
- EXHAUST FAN
- EXIT LIGHTS
- EMERGENCY LIGHTS
- 24" X 24" ACOUSTIC CEILING TILE SYSTEM (ACT-1)

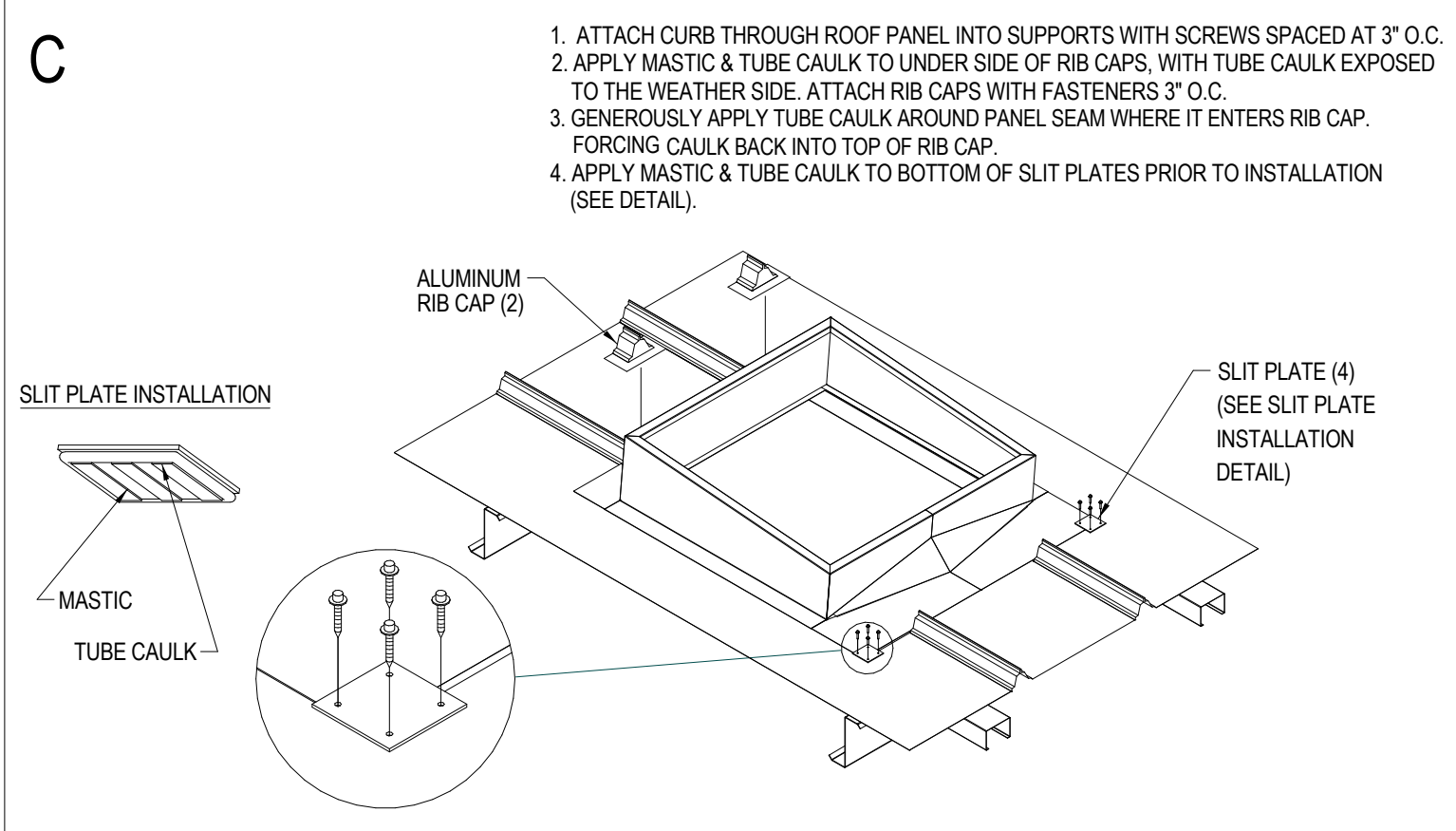
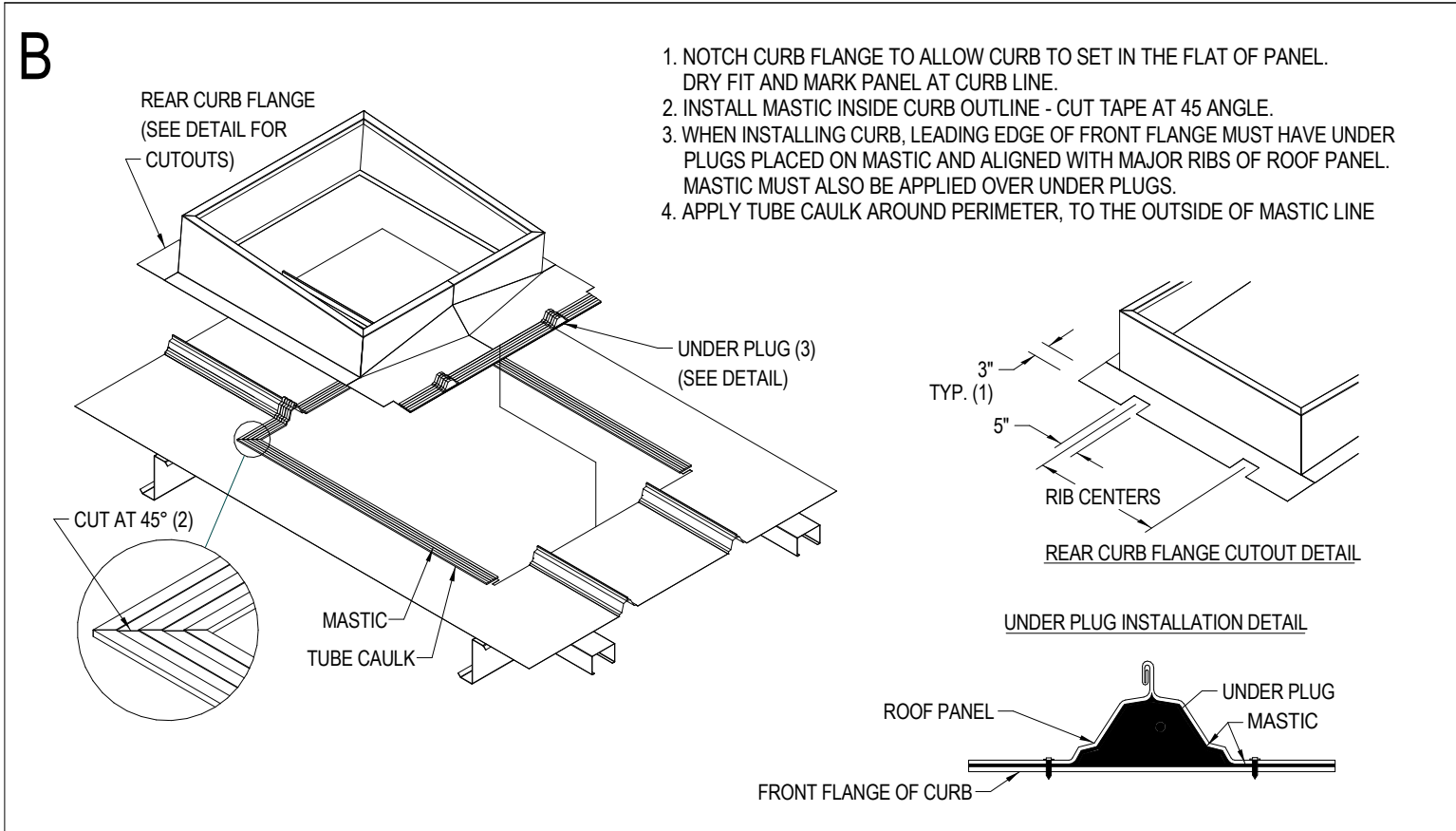
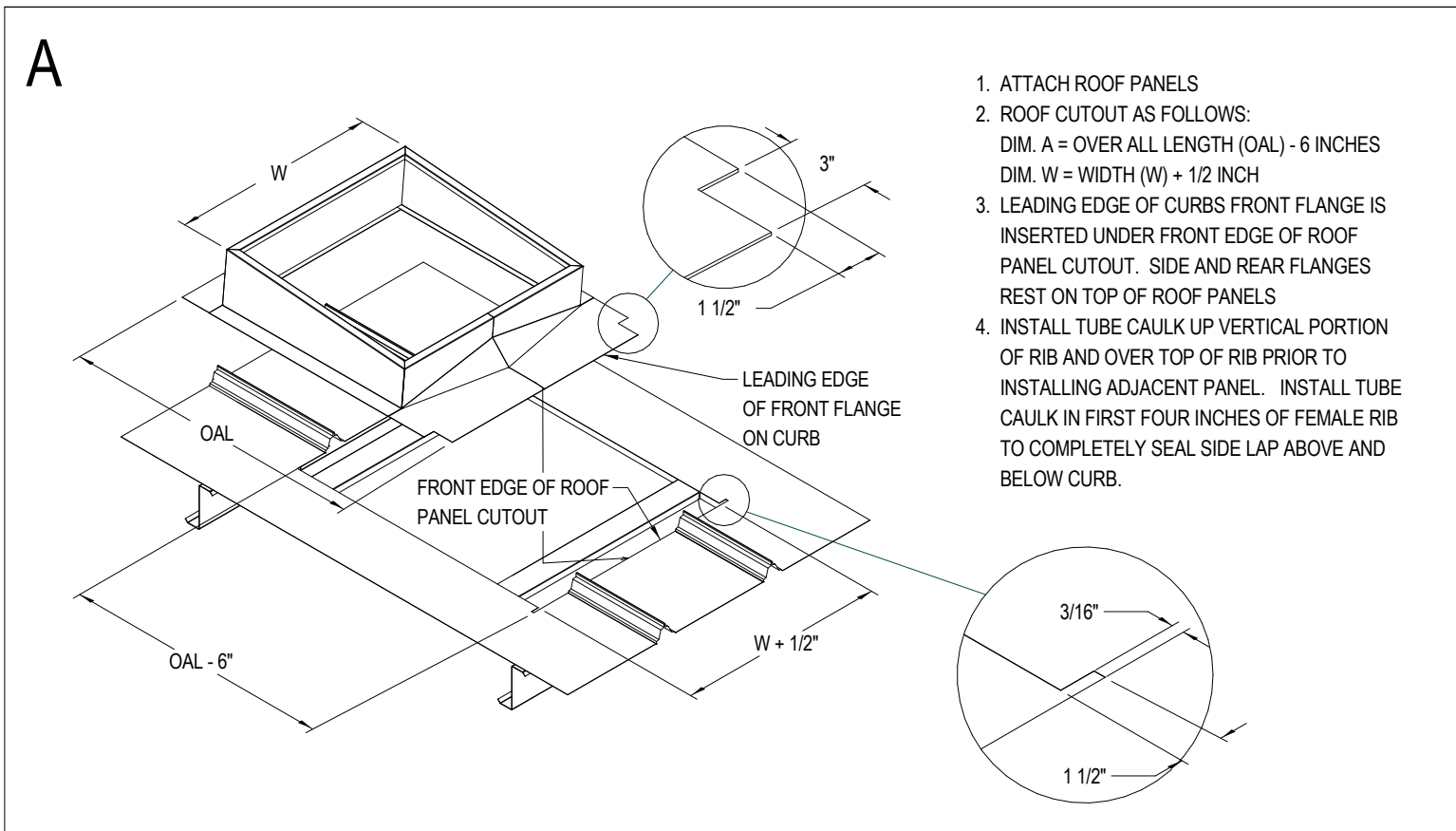
REFLECTED CEILING PLAN NOTES

1. ALL LIGHTS TO BE MOUNTED SUCH THAT THE TOP OF THE FIXTURES ARE AT 11'-0" A.F.F. UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. CABLE TRAY TO BE MOUNTED SUCH THAT THE BOTTOM OF THE TRAY IS AT 11'-6" A.F.F.
3. CABLE TRAY SYSTEM TO BE INSTALLED USING FULL LENGTHS WITH MINIMAL CUTTING OF SECTIONS. AREAS WHERE CUTTING MAY BE REQUIRED ARE AS NOTED ON THE PLAN.
4. THREADED RODS TO 9'-0" A.F.F. UNISTRUT TO BE MOUNTED FLAT SIDE DOWN.



2 CABLE TRAY PLAN
A9 3/32" = 1'-0"

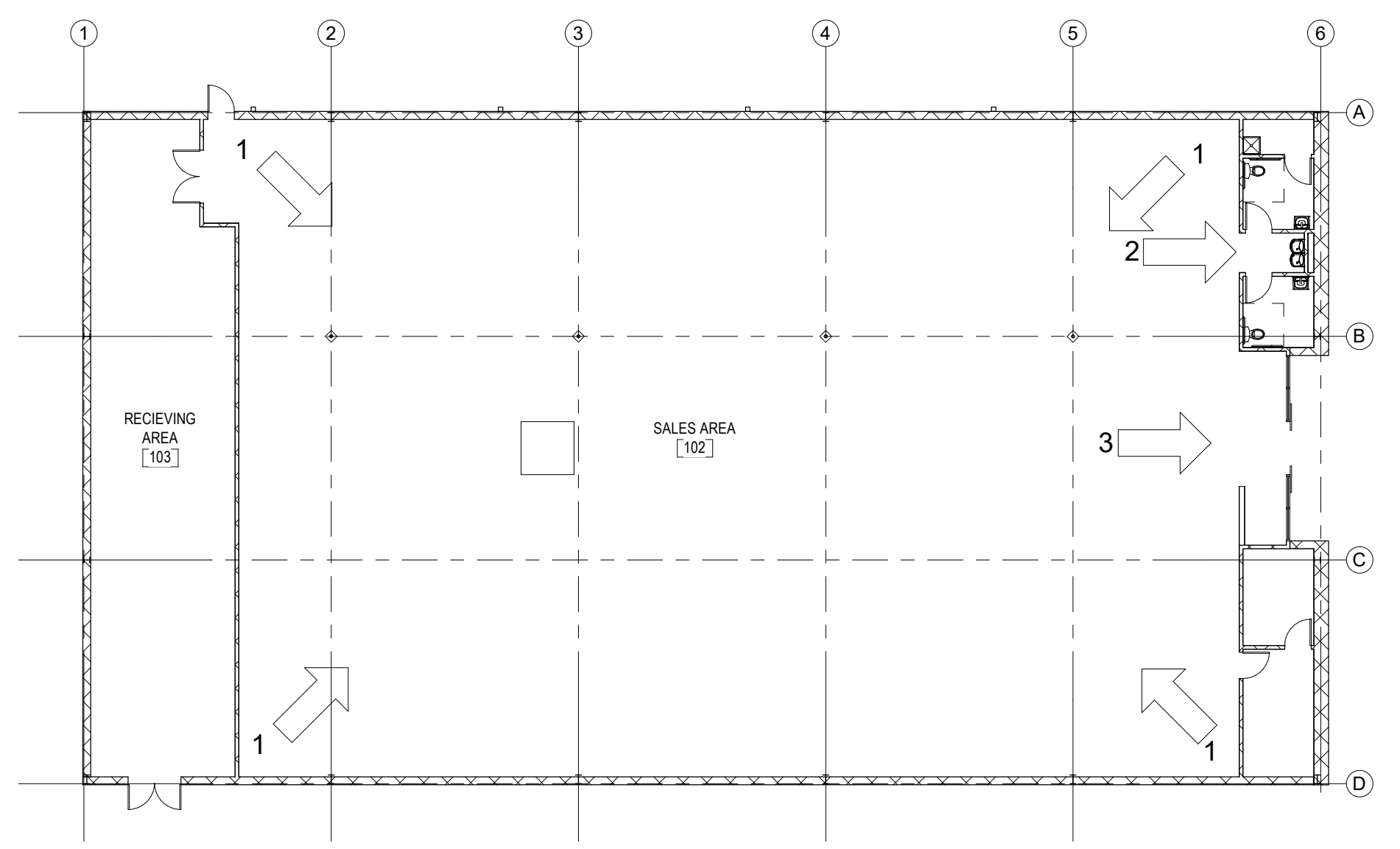
1 BULKHEAD DETAIL
A9 1" = 1'-0"



CURB INSTALLATION INSTRUCTIONS
TRAPEZOIDAL STANDING SEAM PANEL - UNDER / OVER
 FOLLOW MANUFACTURER'S SPECIFICATIONS

REQUIRED NATIONAL ACCOUNT ROOF CURB DG VENDORS:

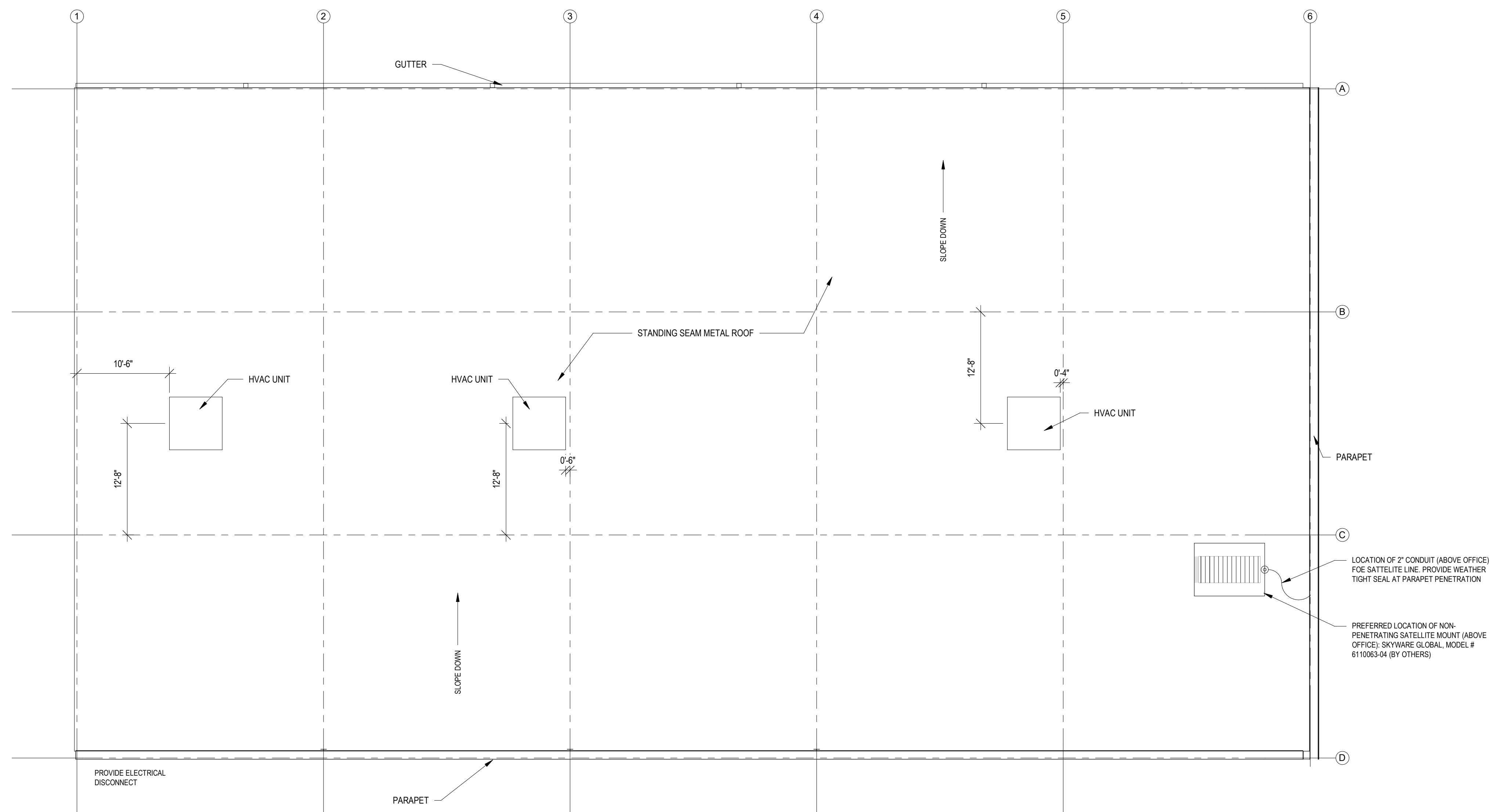
ROOF CURB SYSTEMS	GREG SMYTH	800-683-5848	GSMYTH@ROOFCURB.COM
CURBS PLUS INC.	ALAN THRAILKILL	888-639-2872	ALAN.THRAILKILL@CURBS-PLUS.COM
KCC INTERNATIONAL INC.	GREG CONRAD	800-382-2872	GCONRAD@KCCURBS.COM



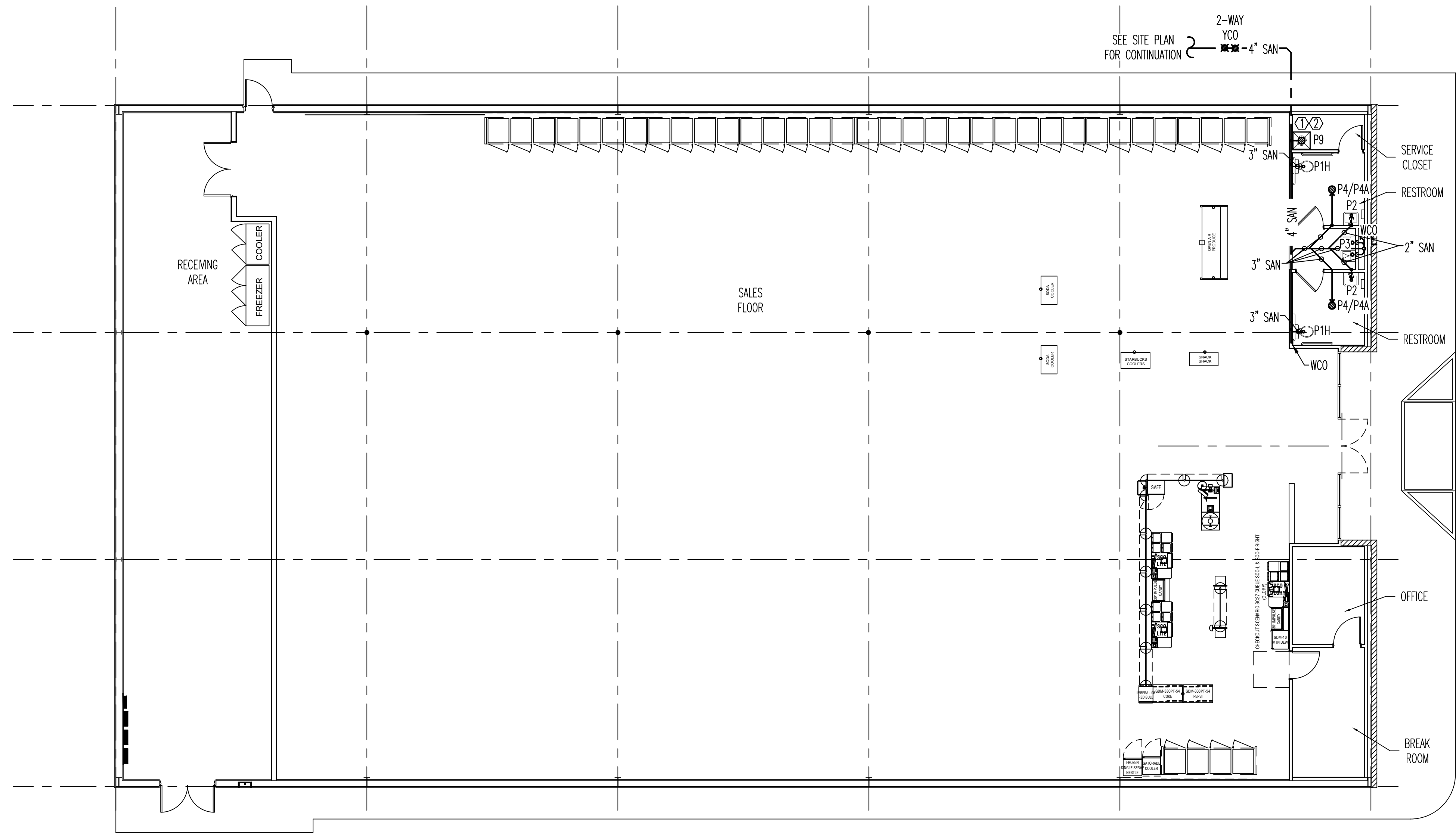
REQUIRED PHOTOS:
 THE FOLLOWING LAYOUT SHOWS THE REQUIRED PHOTOS TO BE TAKEN AT COMPLETION. (MAKE SURE THE OVERHEAD LIGHTS ARE ON FOR YOUR PHOTOS.)

1. FROM EACH CORNER OF THE SALES FLOOR, FACING THE OPPOSITE CORNER.
2. HALL (INSIDE ENTRANCE STORES. ONE PICTURE FROM EACH END OF THE HALL).
3. STANDING 10' FROM THE ENTRANCE FACING THE ENTRANCE.

2 PHOTO KEY PLAN
 1/16" = 1'-0"



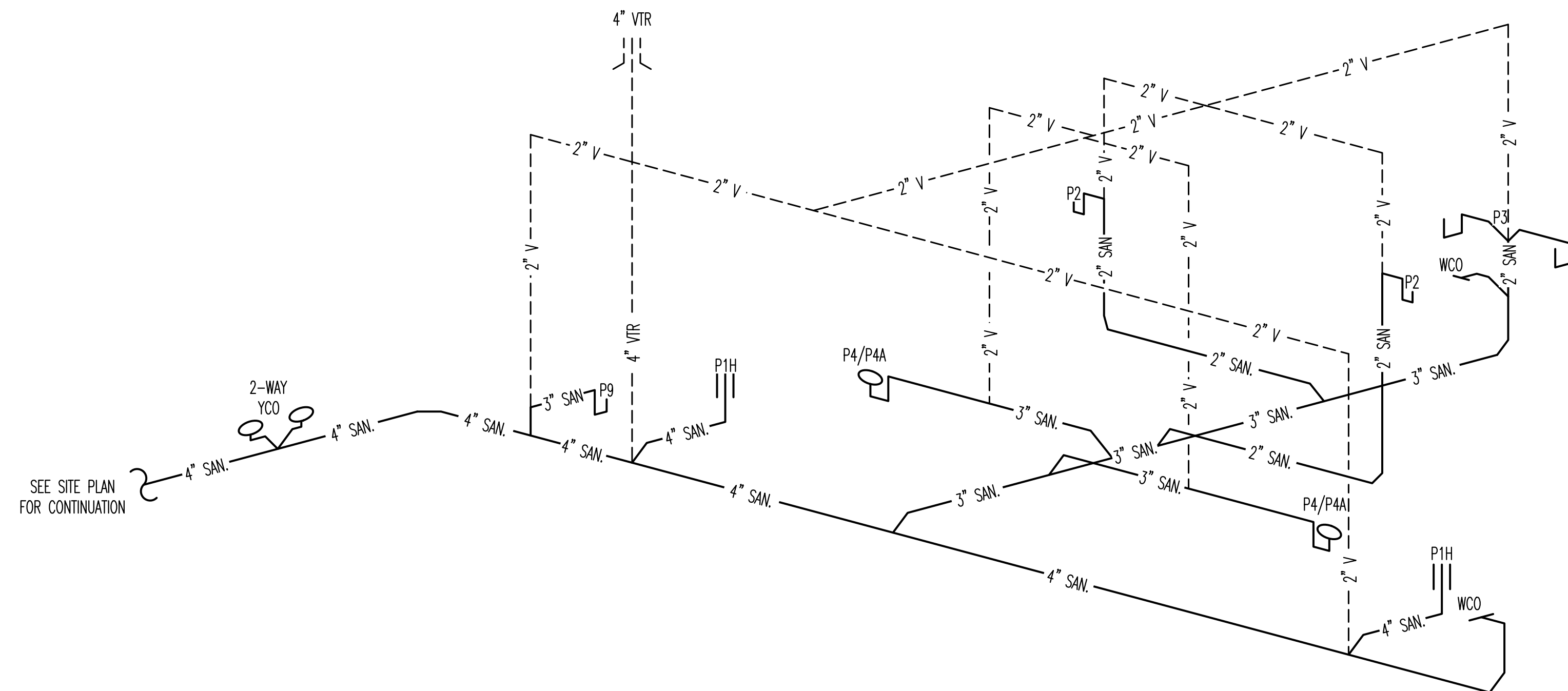
1 ROOF PLAN
 1/8" = 1'-0"



PLUMBING PLAN - SCALE: 1/8"=1' 1

PLUMBING KEYED NOTES

- ① WATER HEATER MOUNTED ABOVE MOP SINK. ROUTE DRAIN PAN DRAIN AND T&P RELIEF VALVE DRAIN FROM WATER HEATER DOWN WALL TO MOP SINK BASIN AND SPILL INTO.
- ② ROUTE RTU CONDENSATE LINE TO SPILL INDIRECTLY TO MOP SINK. PITCH PIPE WITH ROOF SLOPE (TYP.).



DWV RISER - NO SCALE 2



DOLLAR GENERAL
 STORE # 25355
 7174 ALLEGANY RD
 BASOM, NY

REVISION:

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ISSUED:

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DRAWN BY: REW/TD
 CHECKED BY: JAB/REW
 PLUMBING PLAN AND DWV RISER

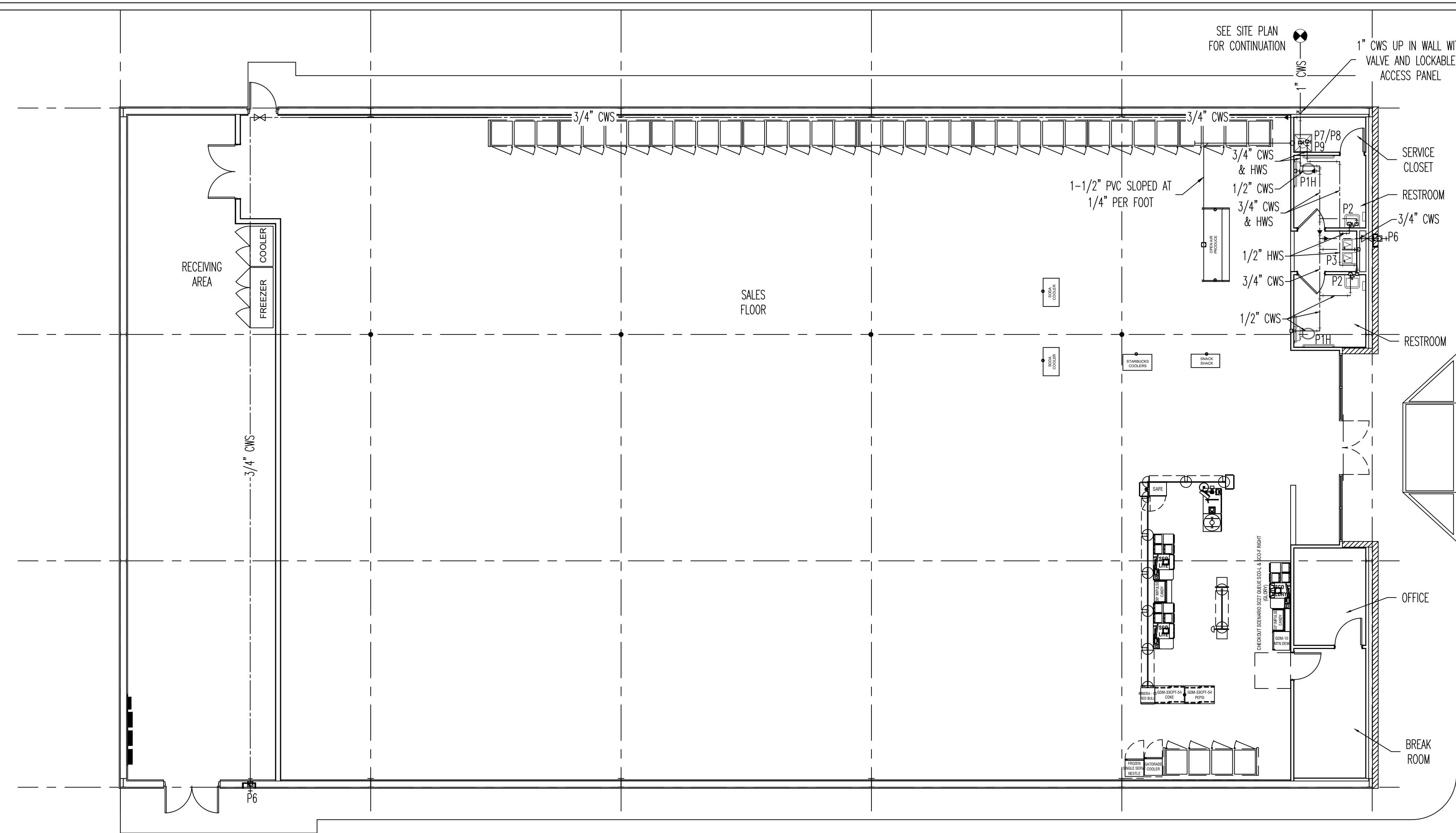
SHEET NO.

P1

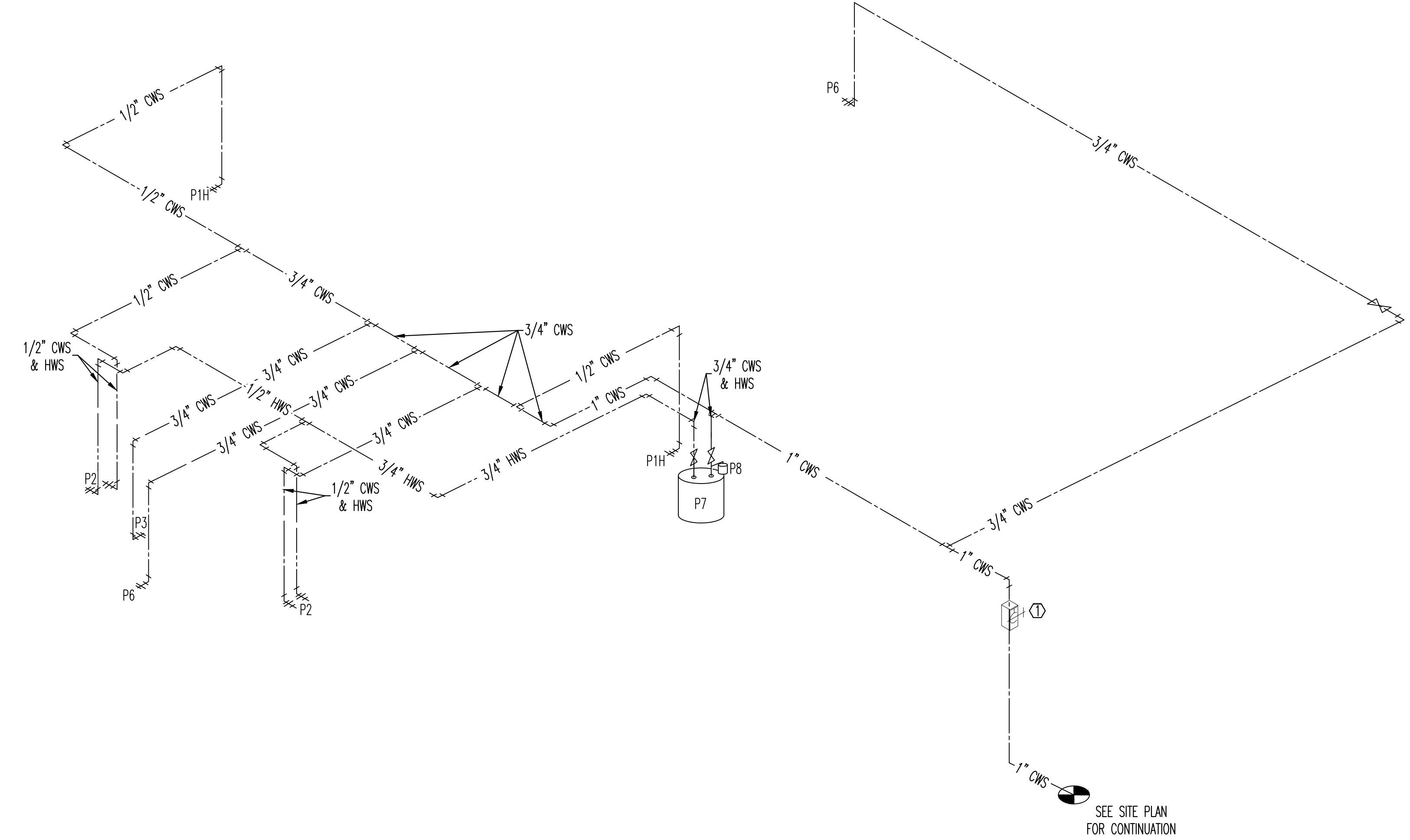
PROJECT NO: 230338

PLUMBING KEYED NOTES

- ① 1" CW UP IN WALL WITH VALVE AND LOCKABLE ACCESS PANEL.
 - ② PLUMBING CONTRACTOR TO RUN WATER LINE IN SALES AREA AS HIGH AS POSSIBLE OVERHEAD.
 - ③ CONTRACTOR TO COORDINATE WATER METER SIZES WITH LOCAL WATER COMPANY AND CIVIL.
- * PROVIDE FULL-OPEN AND SHUT OFF VALVES PER 2020 NY PLUMBING CODE 606.1 THROUGH 606.3



DOMESTIC WATER DELIVERY PLAN - SCALE: 1/8"=1' 1



DOMESTIC WATER DELIVERY RISER - NO SCALE 2

Jacob A. Bender, PE
 P.O. Box 3301, Henderson, NC 27536 | www.jakobengineering.com
 P 252.438.8778 | CORPORATE LICENSE C2217



DOLLAR GENERAL
 STORE # 25355
 7174 ALLEGHENY RD
 BASOM, NY

REVISION:

ISSUED:

DRAWN BY: REW/TD
 CHECKED BY: JAB/REW
 DOMESTIC WATER DELIVERY PLAN
 AND RISER
 SHEET NO.

P2

GENERAL MECHANICAL NOTES:

ADMINISTRATIVE:

- 1. THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:
PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR,
ME - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
FA - FIRE ALARM SYSTEM CONTRACTOR.

MATERIALS:

- 1. THE MC SHALL PROVIDE ALL DX UNITARY HEATING AND COOLING EQUIPMENT AS SCHEDULED ON THE DRAWINGS. AIR-COOLED ROOFTOP AIR CONDITIONER UNITS SHALL BE BY CARRIER, NO SUBSTITUTIONS.

- 5. DUCT LINER MAY BE SUBSTITUTED FOR EXTERIOR DUCT WRAP. DUCT LINER INSULATION MATERIALS SHALL MEET THE REQUIREMENTS OF ASTM C 1071, AND ASTM G 21. EXTERIOR DUCT R-VALUE SHALL BE R-8 AND INTERIOR R-VALUE SHALL BE R-6 IN ACCORDANCE WITH THE 2020 NEW YORK ENERGY CONSERVATION CODE. NOMINAL DUCT SIZES SHALL BE ADJUSTED AS NECESSARY SO THAT FREE AREA DIMENSIONS ARE PRESERVED AS SHOWN ON THE PLANS. FABRICATION AND INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S LATEST EDITION OF THE NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION FIBROUS GLASS DUCT LINER STANDARDS AND/OR SMACNA HANG DUCT CONSTRUCTION STANDARDS. DUCT LINER SHALL HAVE A BLACK PIGMENTED MAT ON THE AIRSTREAM SIDE TO RESIST DAMAGE DURING INSTALLATION AND SERVICE. EDGES SHALL BE FACTORY COATED WITH BLACK PIGMENTED COATING TO COMPLY WITH SMACNA DCS REQUIREMENTS. ALL PORTIONS OF DUCT DESIGNATED TO RECEIVE DUCT LINER SHALL BE COMPLETELY COVERED WITH DUCT LINER. TRANSVERSE JOINTS SHALL BE HEAVILY BUTTED AND THERE SHALL BE NO INTERRUPTIONS OR GAPS. THE BLACK PIGMENTED OR MAT FACE SURFACES SHALL FACE THE AIRSTREAM. DUCT LINER SHALL BE ADHERED TO THE SHEET METAL WITH 90 PERCENT COVERAGE OF ADHESIVE COMPLYING WITH REQUIREMENTS OF ASTM C 916. ALL EXPOSED LEADING EDGES AND TRANSVERSE JOINTS SHALL BE FACTORY COATED OR COATED WITH ADHESIVE DURING FABRICATION. DUCT LINER SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS, EITHER WELD-SECURED OR IMPACT DRIVEN, WHICH SHALL COMPRESS THE DUCT LINER SUFFICIENTLY TO HOLD IT FIRMLY IN PLACE. ADHESIVE BONDED PINS ARE NOT PERMITTED DUE TO LONG-TERM ADHESIVE AGING CHARACTERISTICS. UNINGS SHALL BE INTERRUPTED AT THE AREA OF OPERATION OF A FIRE DAMPER AND AT A MINIMUM OF 6 INCHES UPSTREAM AND 6 INCHES DOWNSTREAM OF ELECTRIC RESISTANCE AND FUEL-BURNING HEATERS IN A DUCT SYSTEM. METAL NOSINGS OR SLEEVES SHALL BE INSTALLED OVER EXPOSED DUCT LINER THAT FACE OPPOSITE THE DIRECTION OF AIRFLOW. UPON COMPLETION OF INSTALLATION OF DUCT LINER AND BEFORE OPERATION IS TO COMMENCE, VISUALLY INSPECT SYSTEM AND VERIFY THAT THE DUCT LINER IS PROPERLY INSTALLED. OPEN ALL SYSTEM DAMPERS AND TURN ON FANS TO BLOW ALL SCRAPES AND OTHER LOOSE PIECES OF MATERIAL OUT OF THE DUCT SYSTEM. ALLOW FOR A MEANS OF REMOVAL OF SUCH MATERIAL.

- 1. INSULATE DUCTWORK WITH FIBERGLASS DUCT WRAP. INSTALLED R-VALUE SHALL BE A MINIMUM R-6. COVERINGS AND UNINGS, INCLUDING ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL NEW DUCTWORK SHALL RECEIVE INSULATION ON THE OUTSIDE. INSTALL DUCT WRAP INSULATION WITH FACING OUTSIDE SO THAT TAPE FLAP OVERLAPS INSULATION AND FACING OF ADJACENT PIECE OF DUCT WRAP. INSULATION SHALL BE TIGHTLY BUTTED. FOR RECTANGULAR DUCTS, INSTALL SO INSULATION IS NOT EXCESSIVELY COMPRESSED AT DUCT CORNERS. STAPLE SEAMS APPROXIMATELY 6 INCHES ON CENTER WITH OUTWARD CLINCHING STAPLES. SEAL SEAMS WITH PRESSURE SENSITIVE TAPE MATCHING THE FACING. FOR RECTANGULAR DUCTS 24 INCHES IN WIDTH OR GREATER, SECURE DUCT WRAP TO THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS SPACED 18 INCHES ON CENTER TO PREVENT SAGGING OF INSULATION. ADJACENT SECTIONS OF DUCT WRAP SHALL BE TIGHTLY BUTTED WITH THE 2 INCH TAPE FLAP OVERLAPPING ALL TEARS, PUNCTURES, ETC. OF THE DUCT WRAP. INSULATION SHALL BE SEALED WITH TAPE OR MASTIC TO PROVIDE A VAPOR TIGHT SYSTEM. INSULATION SHALL BE BY KNAUF INSULATION, OWENS CORNING CORP. OR CERTAINTED CORPORATION. VERIFY THAT DUCTS HAVE BEEN TESTED BEFORE APPLYING INSULATION MATERIALS. VERIFY THAT DUCT SURFACES ARE CLEAN, DRY AND FREE OF FOREIGN MATERIAL PRIOR TO INSULATING. DUCT COVERINGS SHALL NOT PENETRATE A WALL OR FLOOR REQUIRED TO HAVE A FIRE-RESISTANCE RATING OR REQUIRED TO BE FIRE BLOCKED.

- HEATING LOAD: 215,804 BTU/H
LATENT COOLING LOAD: 108,638 BTU/H
MECHANICAL SPACING/CONDITIONING SYSTEM: UNITARY
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS): SEE SCHEDULES
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE, THE MECHANICAL DESIGN FOR THIS BUILDING COMPLIES WITH MECHANICAL AND EQUIPMENT REQUIREMENTS OF THE 2020 NMC.

- MECHANICAL SYSTEM, SERVICE SYSTEMS, AND EQUIPMENT
METHOD OF COMPLIANCE: ZONE SA
EXTERIOR DESIGN CONDITIONS: HEATING DESIGN DRY BULB 7.4 F, COOLING DESIGN DRY BULB 83.9 F, COOLING DESIGN WET BULB 69.9 F
INTERIOR DESIGN CONDITIONS: HEATING DESIGN DRY BULB 70 F, COOLING DESIGN DRY BULB 75 F, COOLING RELATIVE HUMIDITY 50%
HEATING LOAD: 215,804 BTU/H
SENSIBLE COOLING LOAD: 108,638 BTU/H
LATENT COOLING LOAD: 66,029 BTU/H
MECHANICAL SPACING/CONDITIONING SYSTEM: UNITARY
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS): SEE SCHEDULES
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE, THE MECHANICAL DESIGN FOR THIS BUILDING COMPLIES WITH MECHANICAL AND EQUIPMENT REQUIREMENTS OF THE 2020 NMC.

- MECHANICAL NOTES AND SCHEDULES 1
VENTILATION CALCULATION (FOR UNIT GP-1&2)
Room Name(s) Zone Type Area (sq.ft.) Rp Ra Default Occupancy Pz Ez Airflow to Zone (cfm)
Retail Sales 8812 7.5 0.12 15 132.18 0.8 8000
N/A 0 0 0 0.00 0.8 0
N/A 0 0 0 0.00 0.8 0
N/A 0 0 0 0.00 0.8 0
N/A 0 0 0 0.00 0.8 0
Maximum Zp: 0.320123
Ev: 0.8
Actual System Population: 60
Uncorrected Intake 1507 cfm
Outdoor Air Intake 1884 cfm
Percent of Unit Air 24%

- VENTILATION CALCULATION (FOR UNIT GP-3)
Room Name(s) Zone Type Area (sq.ft.) Rp Ra Default Occupancy Pz Ez Airflow to Zone (cfm)
Retail Sales 1299 7.5 0.12 15 19.49 0.8 2000
N/A 0 0 0 0.00 0.8 0
N/A 0 0 0 0.00 0.8 0
N/A 0 0 0 0.00 0.8 0
Maximum Zp: 0.188761
Ev: 0.9
Actual System Population: 5
Uncorrected Intake 193 cfm
Outdoor Air Intake 215 cfm
Percent of Unit Air 11%

MECHANICAL DESIGNER'S STATEMENT 2

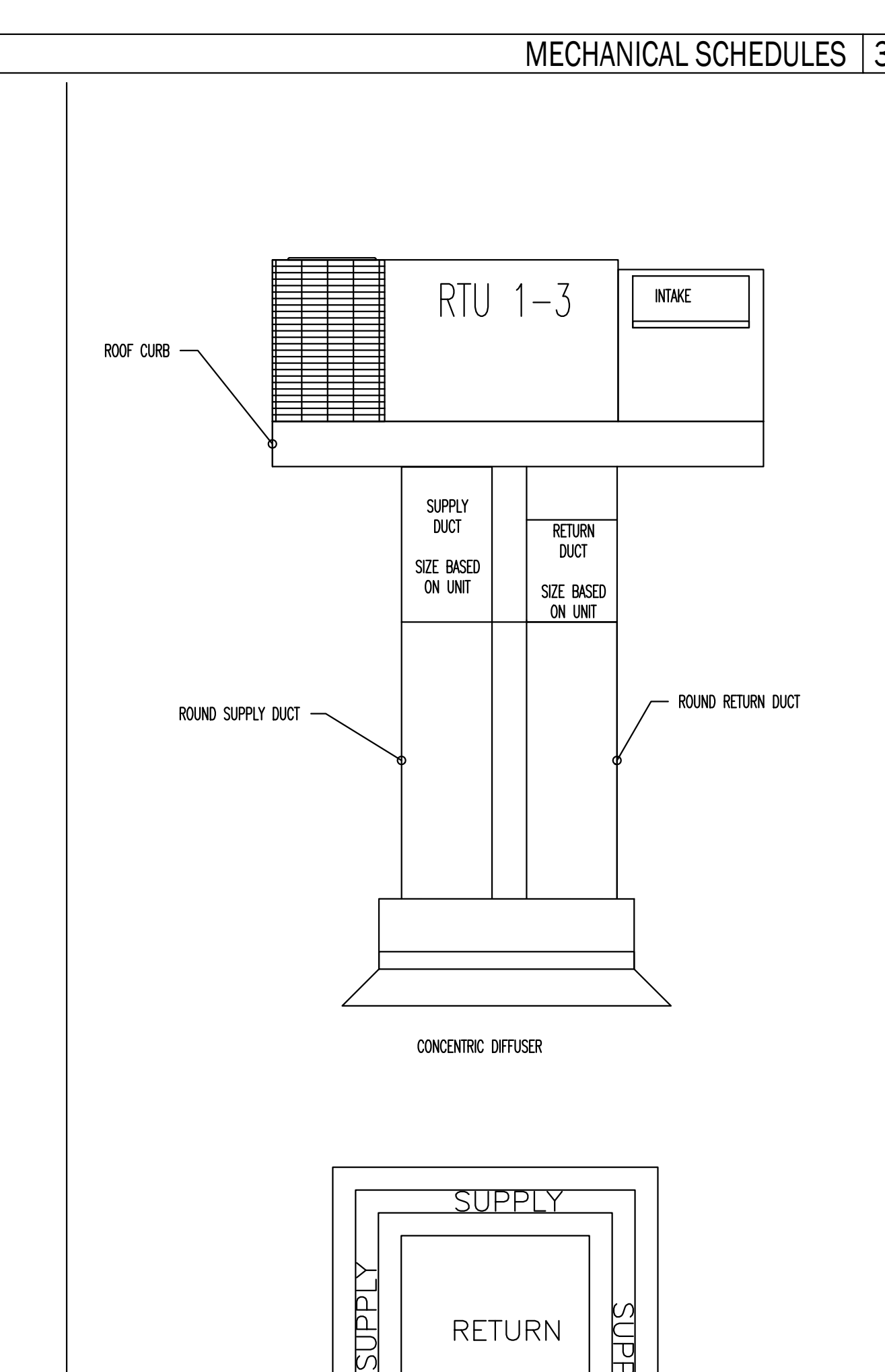
MECHANICAL SCHEDULES 3

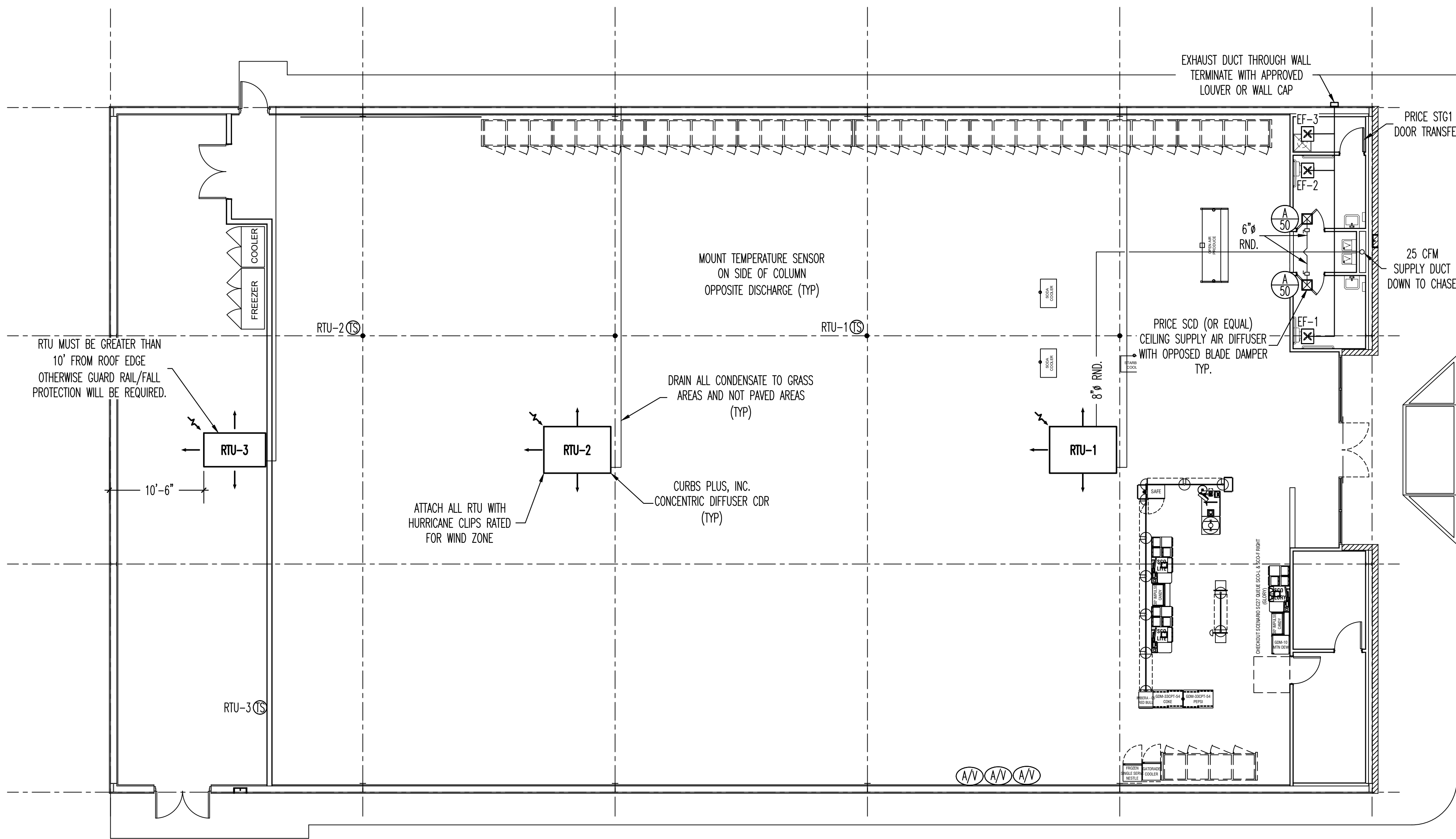
ROOFTOP PACKAGE GAS/ELECTRIC SCHEDULE

- 1. PROVIDE COMPATIBLE ROOF CURB
2. PROVIDE DUCT DETECTOR IN RETURN DUCT. PROVIDE RELAY FOR KILLING POWER TO UNITY'S FAN
3. PROVIDE WITH 0-100% ECONOMIZER WITH BAROMETRIC RELIEF
4. PROVIDE WITH COMPARATIVE ENTHALPY CONTROLS
5. PROVIDE HINGED ACCESS DOORS
6. PROVIDE HAIL GUARDS FOR COIL
7. PROVIDE OVER SIZED FAN MOTOR
8. REPLACE ALL FILTERS AT PROJECT'S COMPLETION
9. PROVIDE POWERED EXHAUST
10. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH NIGHT-TIME SET BACK
11. ANY EQUIPMENT SUBSTITUTIONS MUST EQUAL OR EXCEED EFFICIENCIES LISTED (RATINGS PER ARI)
12. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES
13. PROVIDE WITH CONCENTRIC VENT KIT
14. GAS REGULATOR AND DIELECTRIC UNION IS REQUIRED AT EACH UNIT

EXHAUST FAN SCHEDULE

- 1. PROVIDE WITH PITCHED ROOF CAP OR HINGED WALL CAP AS APPLICABLE.
2. PROVIDE WITH SQUARE TO ROUND DUCT ADAPTER AS NECESSARY
3. OR EQUAL BY LOREN COOK OR PENNBARRY





MECHANICAL PLAN - SCALE: 1/8"=1' 1

HVAC PROJECT NOTES

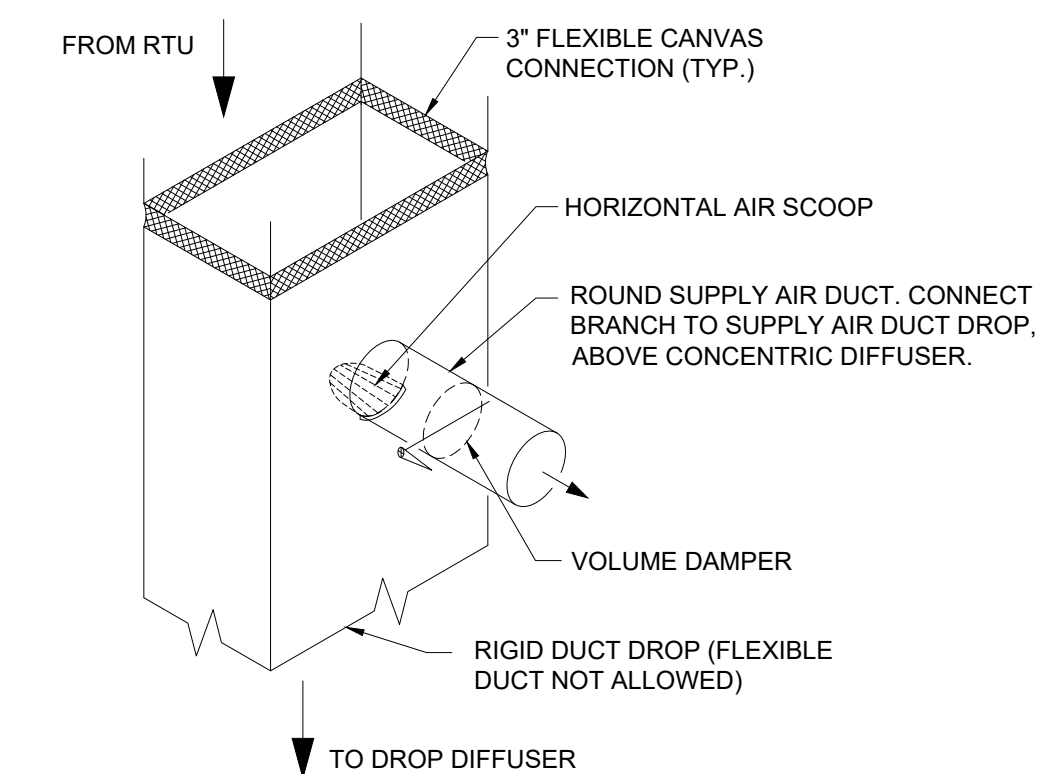
1. ALL MECHANICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS AND ORDINANCES AND IN A MANNER SATISFACTORY TO THE AUTHORITY HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL APPLICABLE FEES.
2. DUCTWORK AND HVAC SYSTEMS ARE NOT DIMENSIONED. DO NOT SCALE FROM DRAWING(S). MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ENSURE THERE IS AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATION.
3. UNLESS OTHERWISE NOTED ON DRAWINGS, ANY REQUIRED DUCTWORK SHALL BE INSTALLED TIGHT TO STRUCTURE.
4. DESIGN ENGINEER TO INDICATE FIRE DAMPERS IN ALL RATED CONSTRUCTION ASSEMBLIES. COORDINATE PLACEMENT OF ALL FIRE DAMPERS WITH RATED ASSEMBLIES ON ARCHITECTURAL DRAWINGS.
5. COORDINATE ALL DIFFUSER, GRILLE & REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
6. NECK SIZE OF LAY-IN DIFFUSERS SHALL BE EQUAL IN DIAMETER TO DUCT RUNOUT.
7. THE MECHANICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND INCIDENTALS TO THE WORK INVOLVED FOR A COMPLETE AND OPERATING FACILITY.
8. ALL EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ELECTRICAL STARTER, PROTECTIVE DEVICES AND INTERLOCKS, ECT. REQUIRED FOR COMPLETE OPERABLE SYSTEM.
9. ALL HVAC EQUIPMENT LOCATIONS SHALL BE COORDINATED TO ENSURE CLEAR ACCESS TO ALL AREAS. EQUIPMENT SHALL BE ORIENTED IN SUCH A MANNER AS TO ALLOW FOR FULL SERVICE MAINTENANCE.
10. COLOR AND FINISH FOR ALL EXTERIOR LOUVER/WALL CAP SHALL BE COORDINATED WITH THE ARCHITECT/OOWNER.
11. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR TEST, ADJUST AND BALANCE OF THE AIR DISTRIBUTION SYSTEM.
12. ALL SUPPLY AND RETURN DUCT SHALL BE CONNECTED TO THE HVAC UNIT WITH FLEXIBLE UL LISTED CANVAS.
13. DUCTWORK DIMENSIONS SHOWN ON MECHANICAL PLANS ARE NET CLEAR INSIDE DIMENSIONS.
14. OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE, SECTION 401.4.
15. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLING ANY EQUIPMENT SHIPPED IN SECTIONS, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
16. UNITS GREATER THAN 2,000 CFM REQUIRE A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT. UNITS BELOW 2,000 CFM ARE TO BE EQUIPPED WITH A FIRESTAT. LOCAL ORDINANCES MAY HAVE MORE STRINGENT REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR.
17. SEE ARCHITECTURAL PLANS FOR TYPE OF CONSTRUCTION, OCCUPANCY, AND THE INTENDED USE OF EACH SPACE.
18. SEE ARCHITECTURAL PLANS FOR R' VALUES OF CONSTRUCTION COMPONENTS (SUCH AS WALLS, FLOORS, CEILING & PERIMETER INSULATION.)
19. INSULATING MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT EXCEEDING 450 IN ACCORDANCE WITH ASTM E 84.
20. ALL HVAC EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY AS TO REDUCE VIBRATION TRANSMISSION TO STRUCTURAL MEMBERS.

MECHANICAL PROJECT NOTES 2

SYMBOL LEGEND	
	EXHAUST FAN
	SUPPLY AIR DIFFUSER
	TEMPERATURE SENSOR
	RETURN/EXHAUST AIRFLOW
	SUPPLY AIRFLOW
	VOLUME DAMPER
	CONDENSATE PIPE

HVAC SPECIFICATIONS:

1. SEE SHEET M0 FOR GENERAL MECHANICAL PROJECT NOTES
2. ROOF MOUNTED SYSTEM WITH ANY REQUIRED DUCTWORK, CONFORMING TO ASHRAE SPECIFICATIONS IN SALES FLOOR, OFFICES, REST ROOM, AND RECEIVING AREAS.
3. ANY DUCTWORK MUST BE INSTALLED ABOVE 11'-6" A.F.F. NO HVAC DUCT TRUNKLINE TO BE INSTALLED WITHIN 48" RADIUS OF REGISTER/ICE CREAM POWER POLES. REFER TO SHEET E1.1 FOR EXACT LOCATION OF POWER POLES.
4. FOR HVAC SENSOR LOCATIONS SEE EMS1 SHEET.
5. LENNOX, CARRIER OR YORK PACKAGED HVAC SYSTEMS ARE REQUIRED. SEE HEATING SOURCE REQUIREMENT BY REGION ON M0.
6. PROVIDE CEILING EXHAUST FANS FOR RESTROOMS. INTERLOCK WITH RESTROOM LIGHTS. VENT EXHAUST FANS THRU SIDE WALL. NOT THRU THE ROOF. INSTALL BACKDRAFT DAMPERS AT EACH FAN.
7. REFER TO S3 FOR ROOF CURB INFORMATION AND DESIGN INTENT.
8. CONCENTRIC DIFFUSERS, AVAILABLE THROUGH YORK, CAN BE USED ON ALL VENDOR'S EQUIPMENT. CONTACT YORK NATIONAL PRICING FOR INFORMATION. LOCATE THE BOTTOM OF DIFFUSER AT 12'-0" AFF.



NOTE:
INSTALL HORIZONTAL AIR SCOOP HAVING A CONTINUOUSLY CURVED CROSS SECTION AND BALANCING DAMPER AT DUCT CONNECTION TO DIVERT SUPPLY AIR INTO THE CONNECTED DUCTWORK. LENGTH OF SCOOP SHALL BE LIMITED TO THE WIDTH OF THE SUPPLY AIR ANNULAR SPACE.

MECHANICAL SPECIFICATIONS AND SCHEDULE 3

HVAC DUCT DETAIL - NO SCALE 4

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DOLLAR GENERAL STORE# 25355
7174 ALLEGANY RD
BASOM, NY

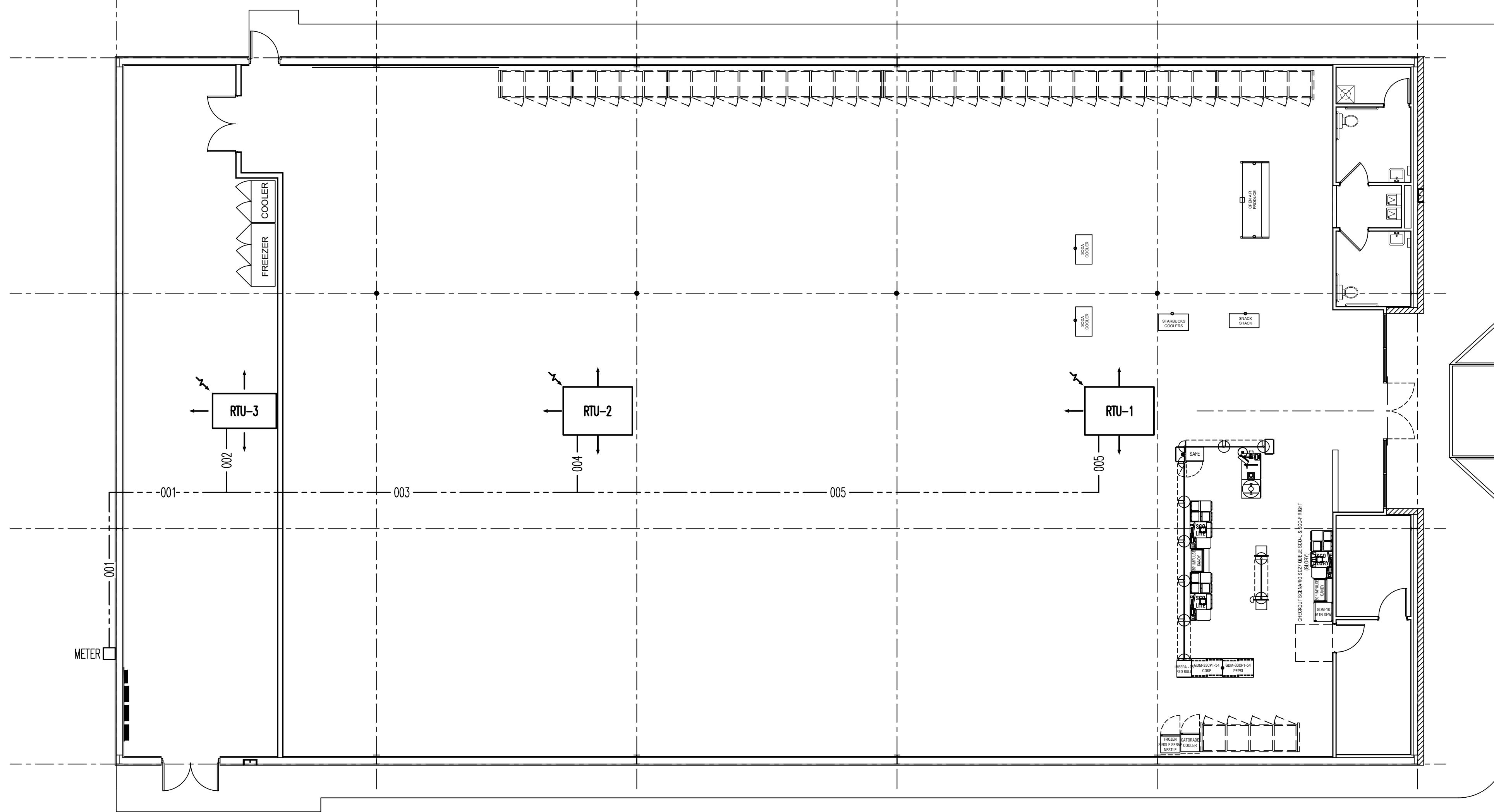
REVISION:

ISSUED:

DRAWN BY: REW/TJD
CHECKED BY: JAB/REW
MECHANICAL PLAN

SHEET NO.
M1

PROJECT NO: 230338



GENERAL GAS LINE PIPING NOTES

- THE GAS PIPING CONTRACTOR (GPC) SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS.
- THE GPC SHALL INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE 2018 NORTH CAROLINA FUEL GAS CODE AND ANY APPLICABLE LOCAL CODES. WHERE A CONFLICT EXISTS BETWEEN THE ABOVE REQUIREMENTS, THE MORE STRINGENT SHALL BE USED. THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ENGINEER IN THE EVENT ANY PART OF THESE PLANS CONFLICTS WITH THE ABOVE REQUIREMENTS.
- THE GPC SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
- DO NOT SCALE THESE DRAWINGS—REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS.
- THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL HIGH PRESSURE REGULATORS AT EACH PIECE OF EQUIPMENT AS NECESSARY.
- INSTALL A DRIP LEG IN GAS LINE AT EACH POINT WHERE CONDENSATE COULD COLLECT. ALL DRIP LEGS SHALL BE READILY ACCESSIBLE FOR CLEANING OR EMPTYING. PIPING SHALL BE SCHEDULE 40 STEEL OR WROUGHT IRON AND COMPLY WITH ANSI/ASME B36.10, ASTM A 53, OR ASTM A 106.
- ALL PIPES AND FITTINGS SHALL BE NEW, FREE OF DEFECTS, AND RATED FOR THE APPLICATION.
- ALL PIPING SHALL BE INSTALLED SO AS NOT

- TO BE SUBJECT TO PHYSICAL DAMAGE.
- PVC VENT PIPING SHALL NOT BE INSTALLED INDOORS.
- THE TYPE OF PIPING JOINT USED SHALL BE SUITABLE FOR THE PRESSURE-TEMPERATURE CONDITIONS AND SHALL BE SELECTED CONSIDERING JOINT TIGHTNESS AND MECHANICAL STRENGTH UNDER THE SERVICE CONDITIONS.
- PIPE JOINTS SHALL BE THREADED, FLANGED, BRAZED, OR WELDED.
- FLEXIBILITY SHALL BE PROVIDED BY THE USE OF BENDS, LOOPS, OFFSETS, OR COUPLINGS OF THE SLIP TYPE. PROVISIONS SHALL BE MADE TO ABSORB THERMAL CHANGES BY THE USE OF EXPANSION JOINTS OF THE BELLOWS TYPE OR BY THE USE OF 'BALL' OR 'SWIVEL' JOINTS. DO NOT USE EXPANSION JOINTS OF THE SLIP TYPE INSIDE THE BUILDING. PIPE ALIGNMENT GUIDES SHALL BE USED WITH EXPANSION JOINTS PER THE MFG.
- ALL GAS PIPING SHALL BE LABELED TO INDICATE THE PRESSURE.
- PIPE HANGERS AND SUPPORTS SHALL CONFORM TO ANSI/MSS SP-58.
- BENDS SHALL BE MADE ONLY WITH BENDING TOOLS AND PROCEDURES INTENDED FOR THAT PURPOSE. DO NOT BEND PIPE THROUGH AN ARC OF MORE THAN 90°. ALL BENDS SHALL BE SMOOTH AND FREE OF CRACKS, BUCKLING, OR OTHER EVIDENCE OF DAMAGE.
- INSTALL GAS SHUTOFF VALVES UPSTREAM OF EACH GAS REGULATOR. VALVES SHALL BE READILY ACCESSIBLE AND NOT SUBJECT TO PHYSICAL DAMAGE.
- WHERE A SEDIMENT TRAP IS NOT INCORPORATED AS PART OF THE APPLIANCE, A SEDIMENT TRAP SHALL BE INSTALLED DOWNSTREAM OF THE APPLIANCE SHUTOFF VALVE AS CLOSE TO THE INLET OF THE APPLIANCE AS PRACTICAL.
- PRIOR TO ACCEPTANCE BY THE OWNER, ALL GAS PIPING INSTALLATIONS SHALL BE INSPECTED AND PRESSURE TESTED IN ACCORDANCE WITH SECTION 406 OF THE NC FUEL GAS CODE.

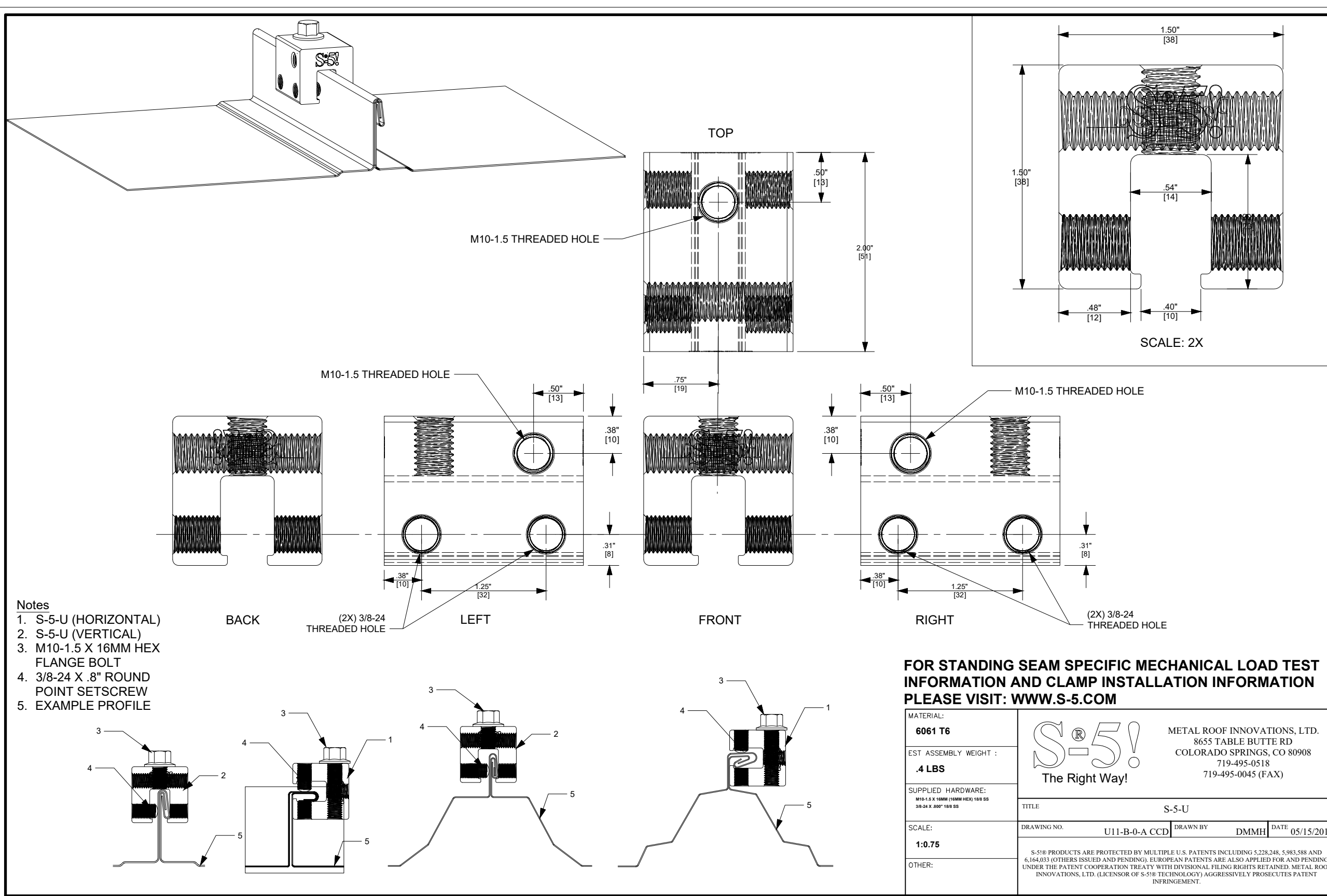
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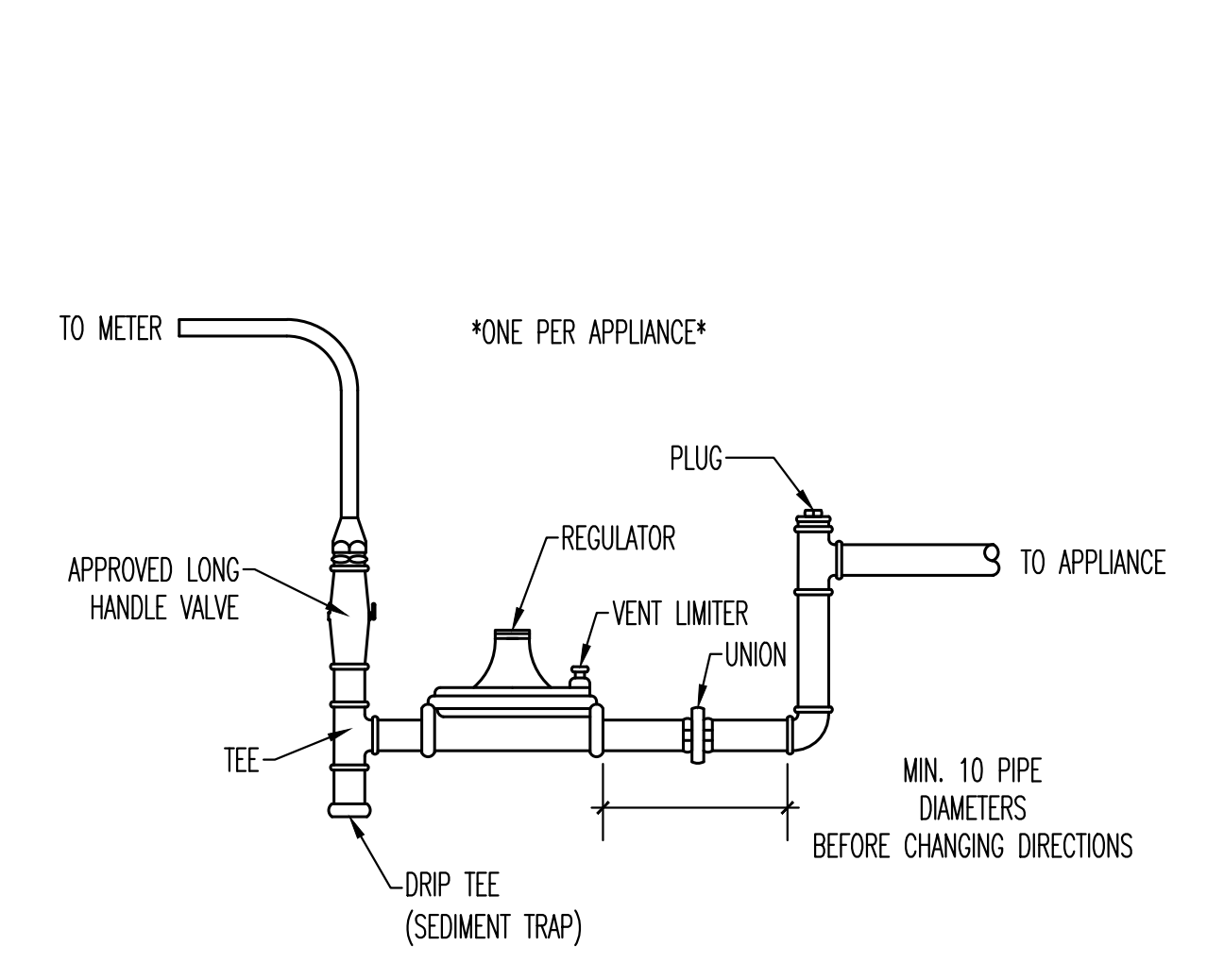
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ROOF GAS PLAN - SCALE: 1/8"=1' 1

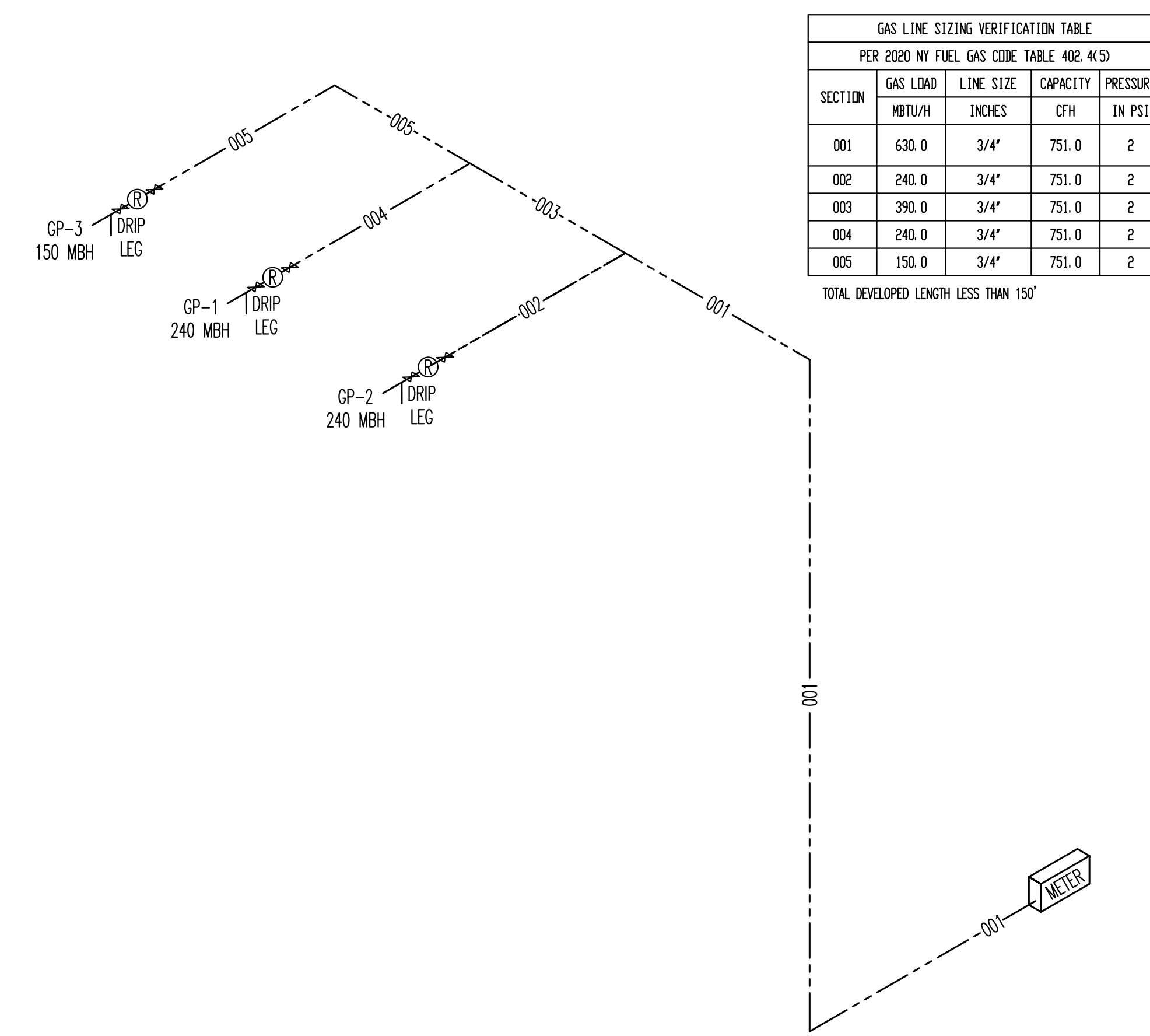
GAS NOTES 2



ROOF CLAMP DETAIL - NO SCALE 3



GAS PIPING REGULATOR DETAIL - NO SCALE 4



GAS DELIVERY PLAN - NO SCALE 5

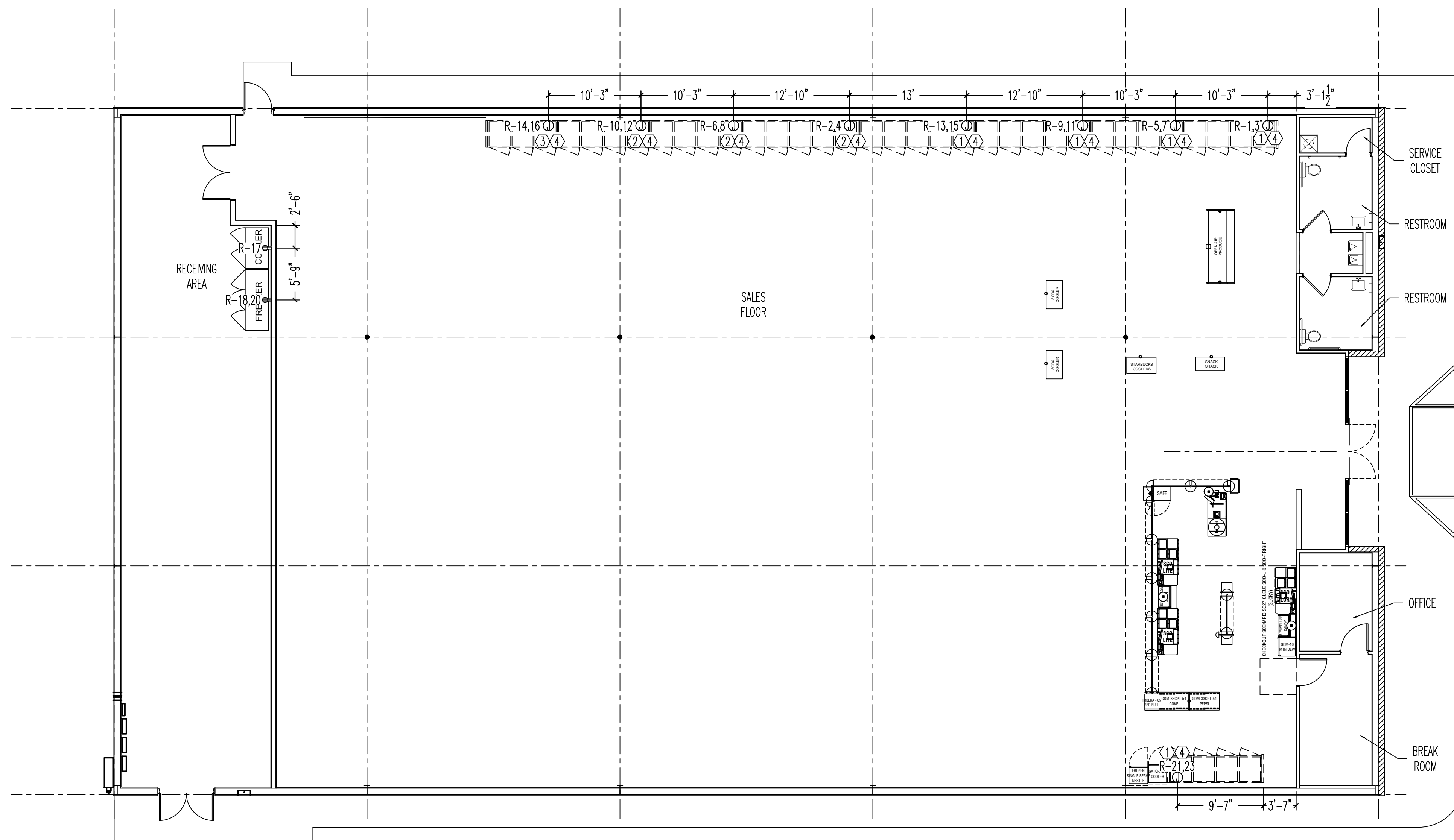
REVISION:

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DRAWN BY: REV/TO
CHECKED BY: JAB/REV
GAS PLAN, DETAILS, AND RISER

SHEET NO. M2

PROJECT NO: 230338



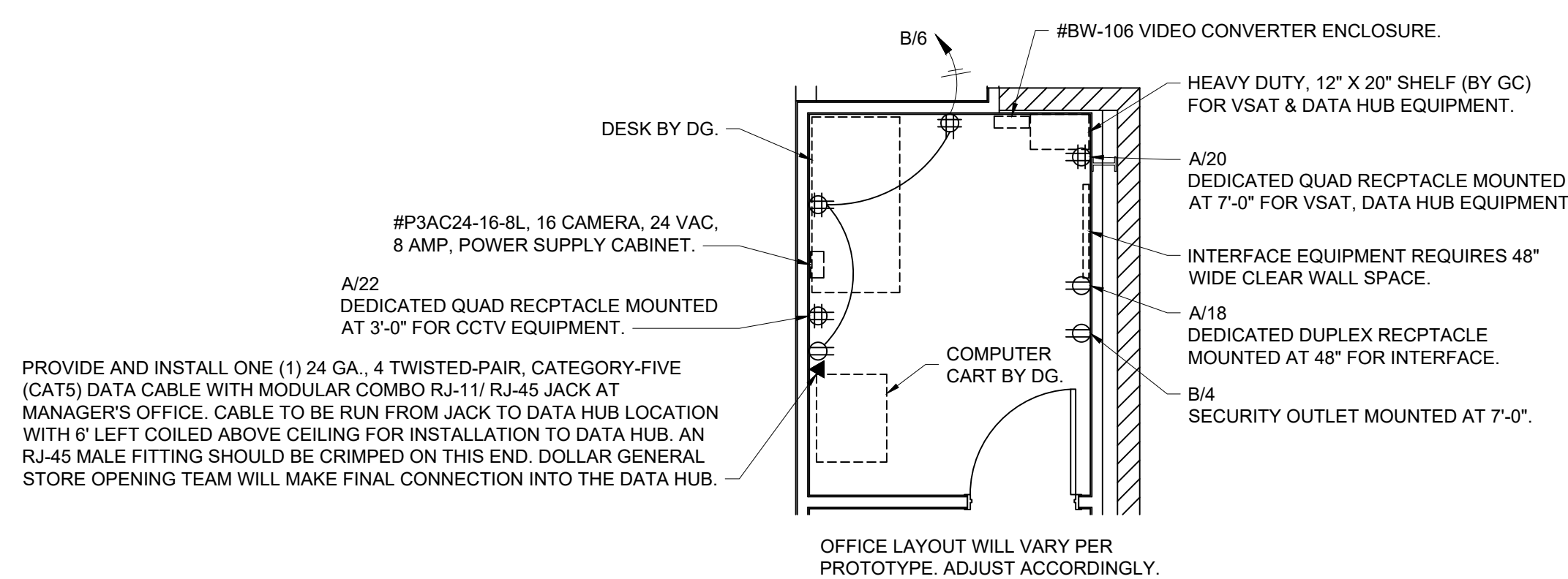
LEGEND	
SYMB	DESCRIPTION
	BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592
	COMMERCIAL GRADE PUSH BUTTON
	125V NEMA 5-20R DUPLEX. PANEL/CIRCUIT IN PANEL
	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
	125V NEMA 5-20R QUAD
	DISCONNECT
	BLACK MAGIC POWER POLE
	PHONE JACK
	RJ-11, RJ-45 DATA JACK, PHONE COMBO
	A-23 PANEL/CIRCUIT IN PANEL
	PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW
	20 AMP TOGGLE SWITCH
	NL NIGHT LIGHT CIRCUIT

- GENERAL NOTES**
- A. MOUNT ALL REFRIGERATOR OUTLETS AT 12" AFF.
- ELECTRICAL KEYED NOTES**
1. PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#12 CU. & #12 GROUND IN 3/4" R.C. TO PROVIDE AND INSTALL 30A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
 2. PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#8 CU. & #10 GROUND IN 1" R.C. TO PROVIDE AND INSTALL 60A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
 3. PROVIDE 208V, 1 PHASE CONNECTION TO A J-BOX AT 90° AFF WITH (3)#10 CU. & #10 GROUND IN 3/4" R.C. TO PROVIDE AND INSTALL 30A/2NF DISCONNECT SWITCH AND WIRE FROM DISCONNECT SWITCH TO EQUIPMENT CONNECTIONS.
 4. MOUNT J-BOX 11" FROM THE RIGHT SIDE OF EACH UNIT. CONFIRM EXACT LOCATION WITH REFRIGERATION VENDOR PRIOR TO WORK (TYP).

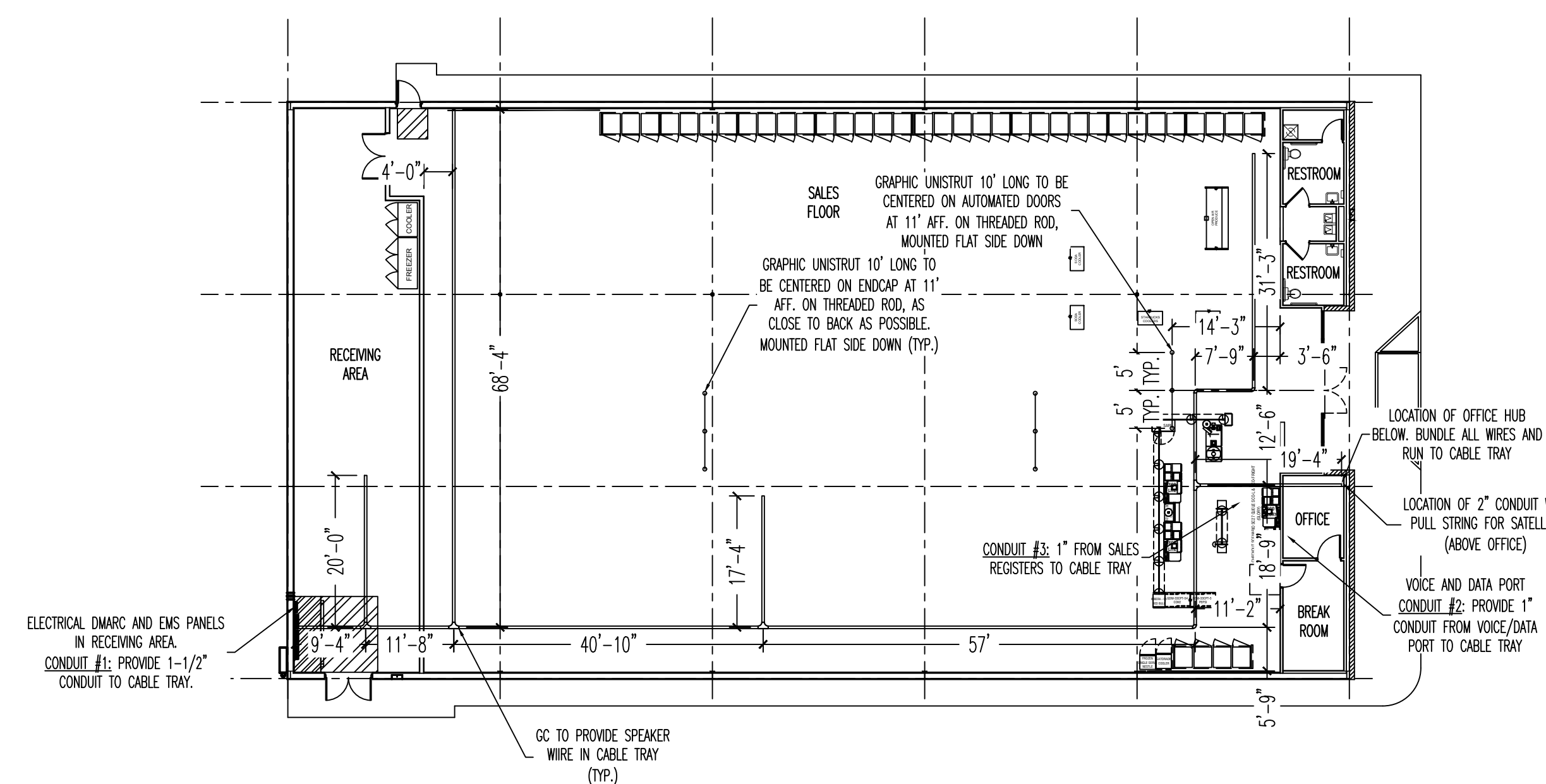
REFRIGERATION POWER PLAN - SCALE: 1/8"=1'-0" 1

ELECTRICAL LEGEND - NO SCALE 2

ELECTRICAL KEY NOTES AND SPECIFICATIONS - NO SCALE 3



OFFICE ENLARGEMENT PLAN - SCALE: 1/8"=1'-0" 4



CABLE TRAY PLAN AND CONDUIT DIAGRAM - SCALE: 1/16"=1'-0" 5

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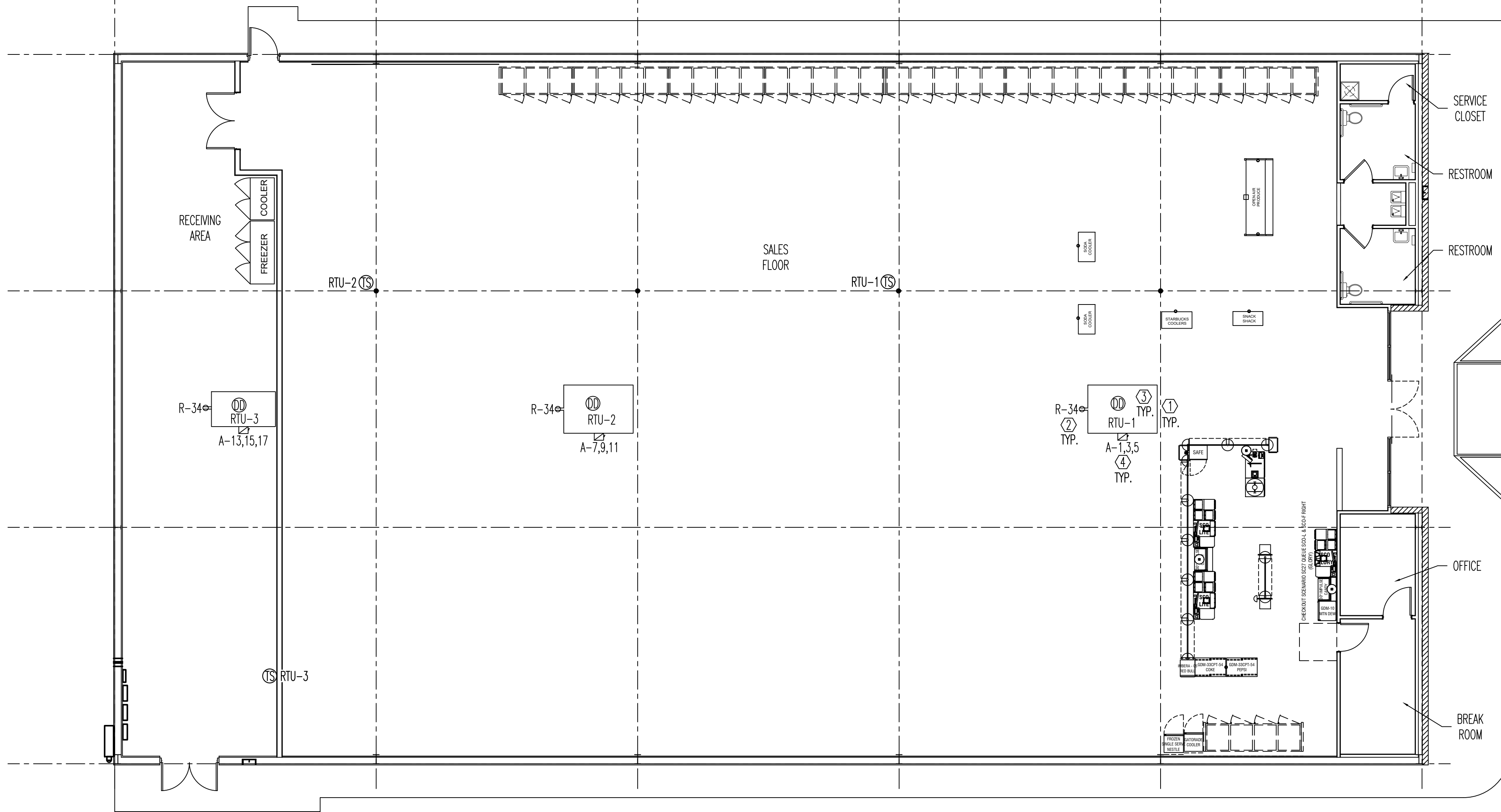
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COOLER POWER LAYOUT AND CABLE TRAY PLAN AND DETAILS

SHEET NO.

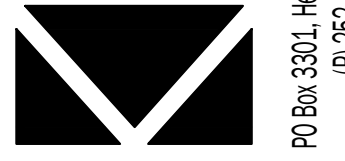
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PROJECT NO: 230338



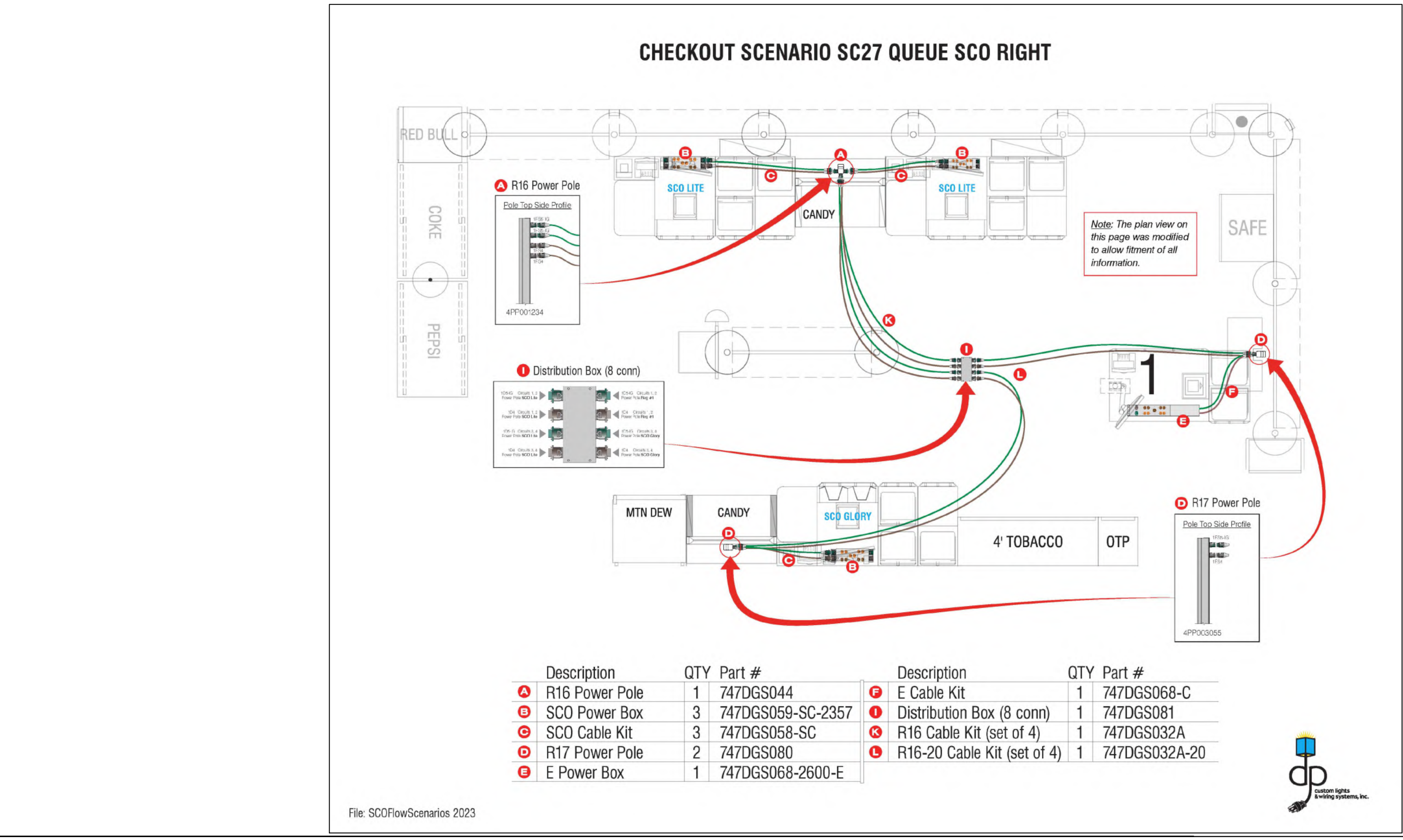
LEGEND	
SYMB	DESCRIPTION
⊕	BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592
⊕	COMMERCIAL GRADE PUSH BUTTON
⊕A-23	125V NEMA 5-20R DUPLEX PANEL/CIRCUIT IN PANEL
⊕	125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
⊕	125V NEMA 5-20R QUAD
⊕	DISCONNECT
⊕	BLACK MAGIC POWER POLE
⊕	PHONE JACK
⊕	RJ-11, RJ-45 DATA JACK, PHONE COMBO
A-23	PANEL/CIRCUIT IN PANEL
\$m	PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW
‡	20 AMP TOGGLE SWITCH
NL	NIGHT LIGHT CIRCUIT

- ### ELECTRICAL KEYED NOTES
- LOCATIONS SHOWN FOR MECHANICAL UNITS ARE ONLY APPROXIMATE. CONTRACTOR MUST CONSULT MECHANICAL OR STRUCTURAL DRAWINGS TO DETERMINE ACTUAL UNIT LOCATIONS. PROVIDE 1/2" PENETRATION THRU ROOF WITHIN FOOTPRINT OF UNIT FOR USE WITH CONTROL WIRING TO UNIT BY OTHERS. PROVIDE PROPER WATERSEAL. (TYPICAL)
 - FACTORY MOUNTED POWERED CONVENIENCE OUTLET. FIELD VERIFY THAT OUTLET IS POWERED. WIRE ALL WITH THIS NOTE TO CIRCUIT R-34 IF THEY ARE NOT POWERED.
 - PHOTOELECTRIC DUCT DETECTOR WITH HOUSING. TIE TO LED READOUT, STAND ALONE DEVICE, 120V, SIMPLEX #4098-9687 IS SPECIFIED WITH 4098-9842 CONTROL STATION. PROVIDE ONE DEVICE PER UNIT. MOUNT DEVICE IN SUPPLY AIR DUCTWORK. DEVICE SHALL BE PROVIDED AND WIRED TO THE CONTROL STATION BY THE ELECTRICAL CONTRACTOR. HIRE THE MECHANICAL CONTRACTOR FOR INSTALLATION IN DUCTWORK & CONNECTION TO SHUTDOWN CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS AND 120V POWER. DO NOT POWER DUCT DETECTORS FROM HVAC UNIT LOW VOLTAGE. PLACE ANY REQUIRED LABELING ON CEILING TILE DIRECTLY BELOW UNIT. RUN CONDUIT & WIRE UNDERGROUND FROM UNIT TO INSIDE OF SPACE.
 - MOUNT DISCONNECT SWITCH AT UNIT AS DESCRIBED IN GENERAL NOTE 1 ON THIS SHEET.

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HVAC UNIT WIRING TABLE

UNIT	WIRE	COND	DISC	FUSE	ENCL	PH	VOLT	GND	BRKR	LOAD	CFM	TONS
GP-1	#4	1 1/4"	60A-3P	60A	NEMA 3R	3φ	208	#8	60A-3P	18,351	4,000	10
GP-2	#4	1 1/4"	60A-3P	60A	NEMA 3R	3φ	208	#8	60A-3P	18,351	4,000	10
GP-3	#8	1"	60A-3P	35A	NEMA 3R	3φ	208	#10	35A-3P	9,360	2,000	5.0
EF-1	#12	3/4"	MOTOR RATED SWITCH		NEMA 1	1φ	120	#12	W/ LIGHTS	50	75	--
EF-2	#12	3/4"	MOTOR RATED SWITCH		NEMA 1	1φ	120	#12	20A-1P	50	75	--

TABLE NOTES:

- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH THE MECHANICAL CONTRACTOR CONCERNING THE ELECTRICAL INFO OF ALL MECHANICAL DEVICES REQUIRING AN ELECTRICAL CONNECTION PRIOR TO DOING ANY WORK. ANY DISCREPANCIES BETWEEN THE FIELD OBTAINED INFORMATION AND THE INFORMATION SHOWN ON THE ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DOING ANY WORK.
- PROVIDE NEUTRALS ON AS REQUIRED BASIS, FIELD VERIFY.
- ALL DISCONNECTS TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE, SUBMIT SHOP DRAWINGS. BUSSMAN FRN-R-(AMP) IS SPECIFIED.

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 ROOF POWER PLAN AND DETAILS
 SHEET NO. **E1.3**



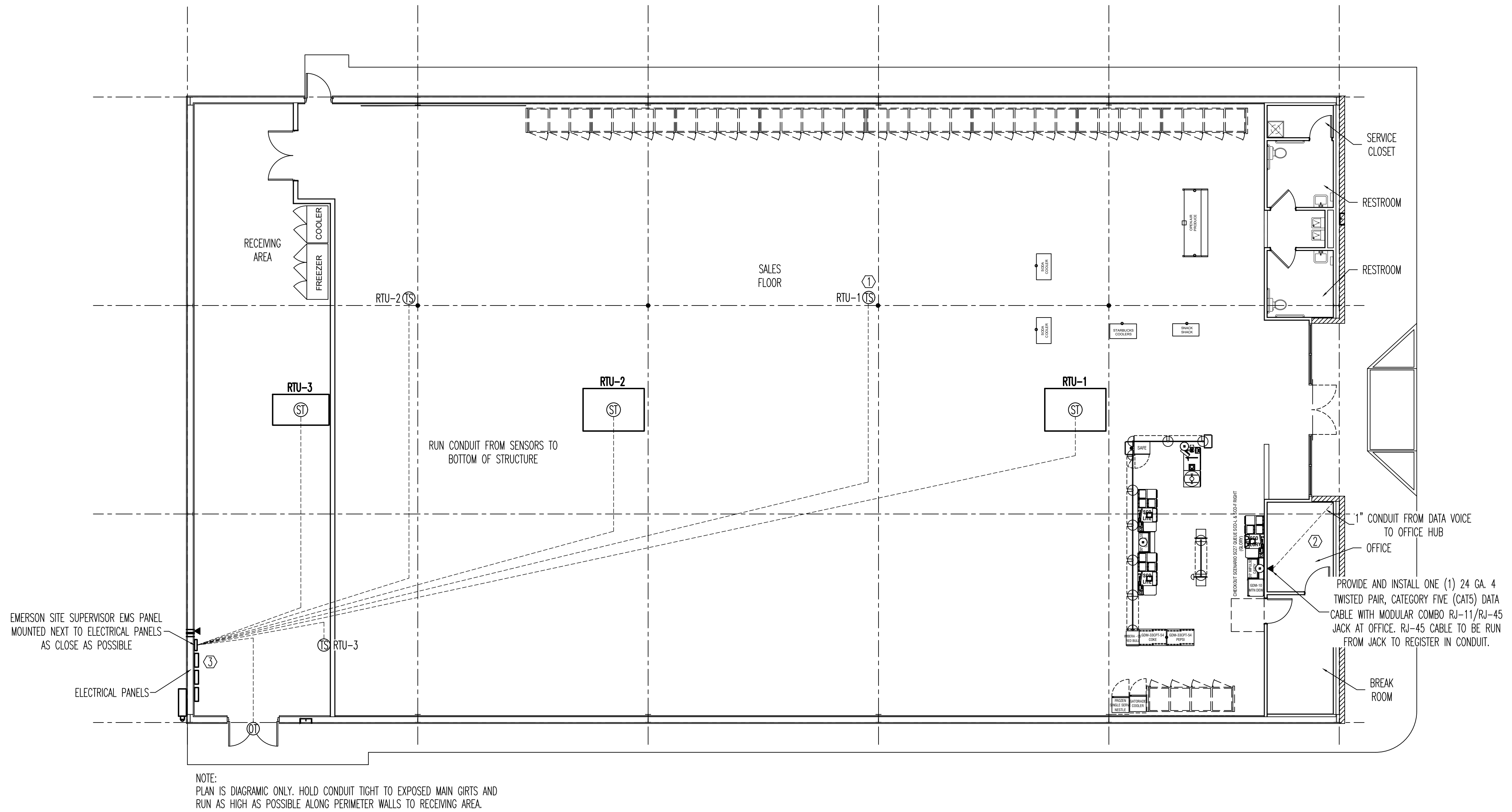
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GENERAL NOTES

- A. REFER TO E1 FOR GENERAL CONTRACTOR RESPONSIBILITIES. E.C. MAY USE CABLE TRAY FOR LOW VOLTAGE CABLES. SEE 2/EZ.
- B. RUN CONDUIT FROM SENSORS TO BOTTOM OF STRUCTURE.
- C. REFRIGERATION UNITS TO BE CONNECTED TO EMS PANEL BY DOLLAR GENERAL REFRIGERATION CONTRACTOR.

SENSOR PLAN KEYED NOTES

- 1. ALWAYS INSTALL THESE SENSORS AT 8'-0" AFF IF ADDITIONAL HVAC UNITS ARE USED, ADD ADDITIONAL TEMPERATURE SENSORS "TS".
- 2. PHONE LINE #1 - TWO RJ-11 PORTS. ONE (1) LOCATED IN OFFICE W/RJ-45 DATA JACK COMBO AND ONE (1) AT REGISTER. 24 GA. CAT 5, 4-PAIR TWISTED WIRE ONLY. USE BLUE AND BLUE & WHITE WIRES. HOOK TO LINE #1 TERMINAL IN RJ-11 JACK EACH PHONE JACK TO HAVE DEDICATED. SEPARATE HOME RUN TO DMARC. LABEL AS "PHONE" AT THE DESTINATION AND AT DMARC. PHONE COMPANY PROVIDES FINAL HOOK UP TO DMARC ONLY. PHONE LINE #2 - RJ-11 PHONE JACK SUPPLIED AND WIRED BY CONTRACTOR.
- 3. EMS REFRIGERATION PANEL CX E2 400. PANEL BY OTHERS. CONNECTION FROM THIS PANEL TO HVAC AND LIGHTING PANEL BY OTHERS. ELECTRICAL CONTRACTOR TO RUN AN EMPTY 1-1/2" C. WITH PULL ROPE BETWEEN THE TWO PANELS.



NOTE:
PLAN IS DIAGRAMIC ONLY. HOLD CONDUIT TIGHT TO EXPOSED MAIN GIRTS AND RUN AS HIGH AS POSSIBLE ALONG PERIMETER WALLS TO RECEIVING AREA.

EMS LOW VOLTAGE PLAN - SCALE 1/8"=1' 1

EMERSON CONTACT

- A. PLEASE CONTACT EMERSON FOR FULL DETAILS.
- B. CONTACT TONY VERTUCA - NATIONAL ACCOUNT EXECUTIVE (404)824-9389. Tony.Vertuca@Emerson.com

EMS GENERAL NOTES

- 1. EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & CITY. OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING. EMS SYSTEMS INSTALLATION GUIDE WITH PHOTOS IS AVAILABLE ON NATIONAL ACCOUNT WEBSITE. ALL QUESTIONS PERTAINING TO THE EMS PANEL, SYSTEM INSTALLATION & SETUP SHOULD BE DIRECTED TO EMERSON'S DOLLAR GENERAL SUPPORT TEAM AT 770-425-2724.
- 2. ALL SIGN & LIGHTING CIRCUITS MUST BE FED THROUGH THE DESIGNATED CONTACTORS AS NOTED ON THIS PAGE.
- 3. ALL LOW VOLTAGE HVAC & DOOR SENSORS MUST BE CONNECTED TO THE PROPER TERMINAL. 24 GA. SHIELDED (SHIELD MUST BE GROUNDED) CABLE, BELDEN #8641, 2 CONDUCTOR WIRE OR ITS EQUIVALENT IS REQUIRED.
- 4. COOLER & FREEZER HOME RUNS WILL BE TERMINATED AT ALL POINTS BY DOLLAR GENERAL REFRIGERATION DEPARTMENT.

TESTING NOTES

TESTING OF HVAC UNITS THRU EMS PANEL IS ACCOMPLISHED BY SIMPLY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR (USING A BLOW DRYER OR ELECTRONIC EQUIPMENT DUSTER AEROSOL) AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES...ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH OPERATION OF THE AHU. WHEN COMPLETE, PRESS THE HOME BUTTON TO RETURN TO THE MAIN SCREEN.

CONTROL PANEL NOTES

- 1. EMS SYSTEM SHOULD BE TESTED FOR HVAC OPERATION, INTERIOR LIGHTING, EXTERIOR LIGHTING AND SIGN LIGHTING PRIOR TO CONTRACTOR'S ELECTRICAL POSSESSION DATE. USE OUTSIDE LIGHT AND SIGN LIGHT OVERRIDE FOR EXTERIOR TESTING.

DEVICE SCHEDULE

SYMB	DESCRIPTION	CABLE TYPE	SUPPLIER	INSTALLER	NOTES
OT	OUTDOOR AIR TEMP MOUNTED 8'-0" A.F.F.	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER RECEIVING ENTRY
ST	SUPPLY TEMP (501-1121) IN SUPPLY DUCT	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER HVAC UNIT
TS	TEMP SPACE SENSOR (609-6590) 8'-0" A.F.F.	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER HVAC UNIT ZONE
	RJ-11/RJ-45 DATA JACK PHONE COMBO	CAT-5 DATA CABLE (24AWG, 4 TWISTED PAIR)	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) AT OFFICE COMPUTER CART
	MOTION SENSOR SWITCH	LEVITON EZ-FIND ODS-10-IDW	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) PER RESTROOM (1) PER BREAK ROOM (1) PER OFFICE

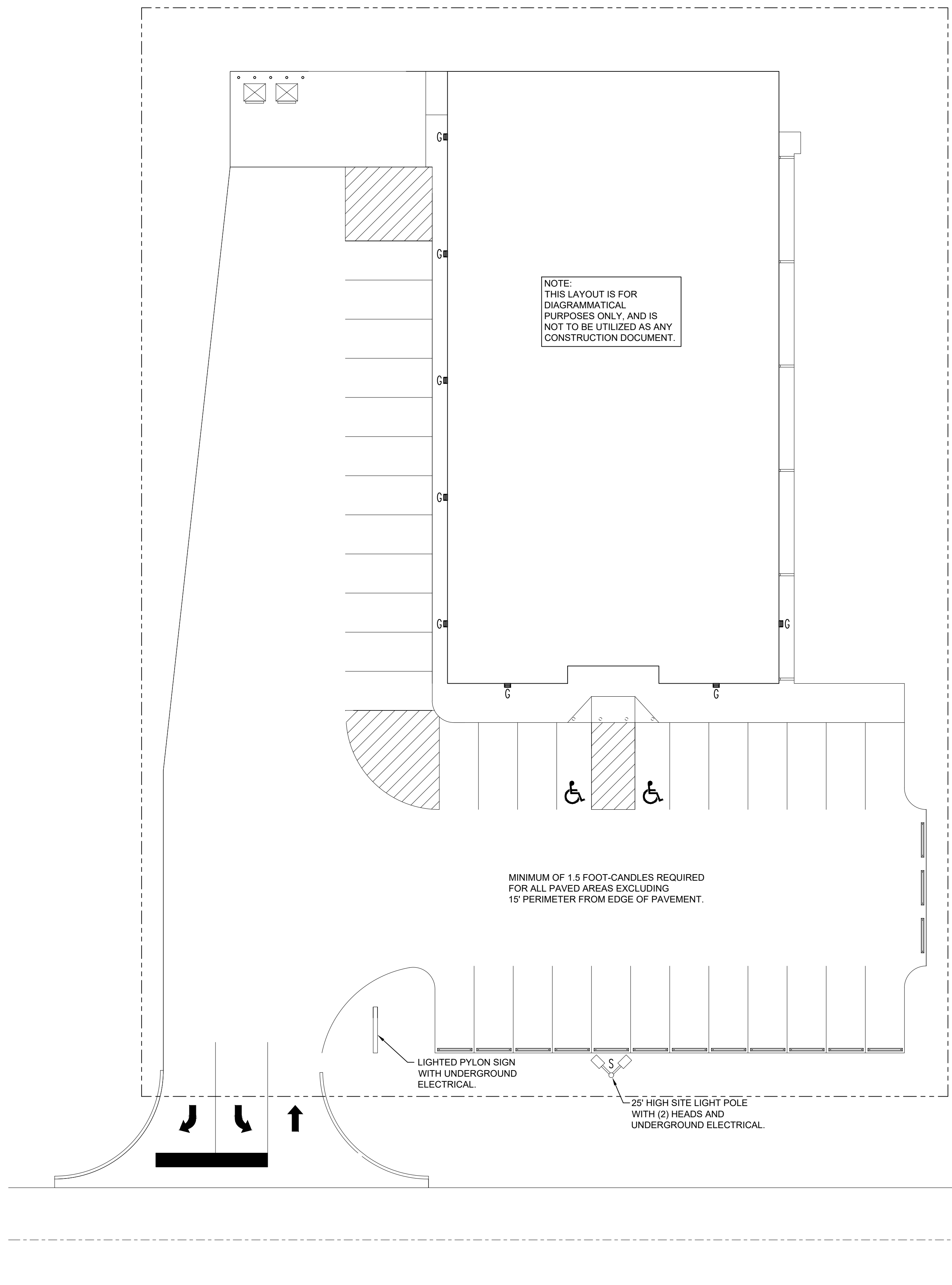
REVISION:

NO.	DATE	DESCRIPTION

ISSUED:

NO.	DATE	DESCRIPTION

06/29/2023 FOR PERMITTING
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GENERAL NOTES:

- A. FINAL SIGN CONNECTION AND UNDERGROUND CONDUIT IS LANDLORD RESPONSIBILITY. PROVIDE CONDUIT FROM THE ELECTRICAL PANEL TO LOCATION OF THE PYLON SIGN BASE. BURY CONDUIT UNDER PARKING AREA. THE CONDUIT IS TO BE 1" AND HAVE ONE SET TO 10/2 WIRE WITH GROUND AND A 20-AMP TWO POLE BREAKER AT THE PANEL. A TEMPORARY 3' TALL STAKE SHALL BE PROVIDED TO DESIGNATE THE PYLON SIGN LOCATION UNTIL THE SIGN IS PERMANENTLY INSTALLED. REMOVE POST AFTER SIGN IS INSTALLED.
- B. SITE / PARKING LOT LIGHTING: PROVIDE ADEQUATE POLE AND/OR WALL LIGHTING FOR NIGHT VISION AROUND ENTRY, PARKING AND DUMPSTER PAD AREAS.
- C. MINIMUM OF 1.5 FOOT-CANDLES REQUIRED FOR ALL PAVED AREAS EXCLUDING 15' PERIMETER FROM EDGE OF PAVEMENT.
- D. REQUIRED LIGHTING: A COMBINATION OF POLE LIGHTS, FLOOD LIGHTS WITH ARM AND WALL PACKS WILL BE USED. REFER TO ELECTRICAL SITE PLAN AND SHEET E2 FOR ADDITIONAL INFORMATION.
- E. PLEASE NOTE THAT LIGHTING DESIGN AND LAYOUT SHOULD BE SITE SPECIFIC & MAY REQUIRE ADDITIONAL LIGHTING TO COMPLY WITH SITE DESIGN CONDITIONS. THEREFORE, MAKE PROVISIONS FOR MORE POLE LIGHTING WHEN A SPECIFIC SITE REQUIRES IT.
- F. UNDERGROUND ELECTRICAL SHALL BE PROVIDED TO THE SITE LIGHT POLES.
- G. WHERE LOCAL JURISDICTIONS DO NOT ALLOW DOLLAR GENERAL'S REQUIRED LIGHTING PLAN, AN ALTERNATE SITE LIGHTING PLAN & PHOTOMETRIC PLAN MUST BE SUBMITTED FOR APPROVAL TO THE DOLLAR GENERAL ARCHITECTURAL AND ENGINEERING DEPARTMENT.
- H. PHOTOMETRIC SITE ANALYSIS AVAILABLE THROUGH DOLLAR GENERAL VENDOR, LEDS LLC.
- I. DOLLAR GENERAL VENDOR PRICING FOR WALL PACKS OR POLE LIGHTING AVAILABLE FROM LEDS LLC.
- J. SEE SHEET E2 FOR MORE INFORMATION.
- K. VERIFY LOCAL DARK SKY REQUIREMENTS AND CONTACT VENDORS FOR APPROVED ALTERNATES IF REQUIRED.

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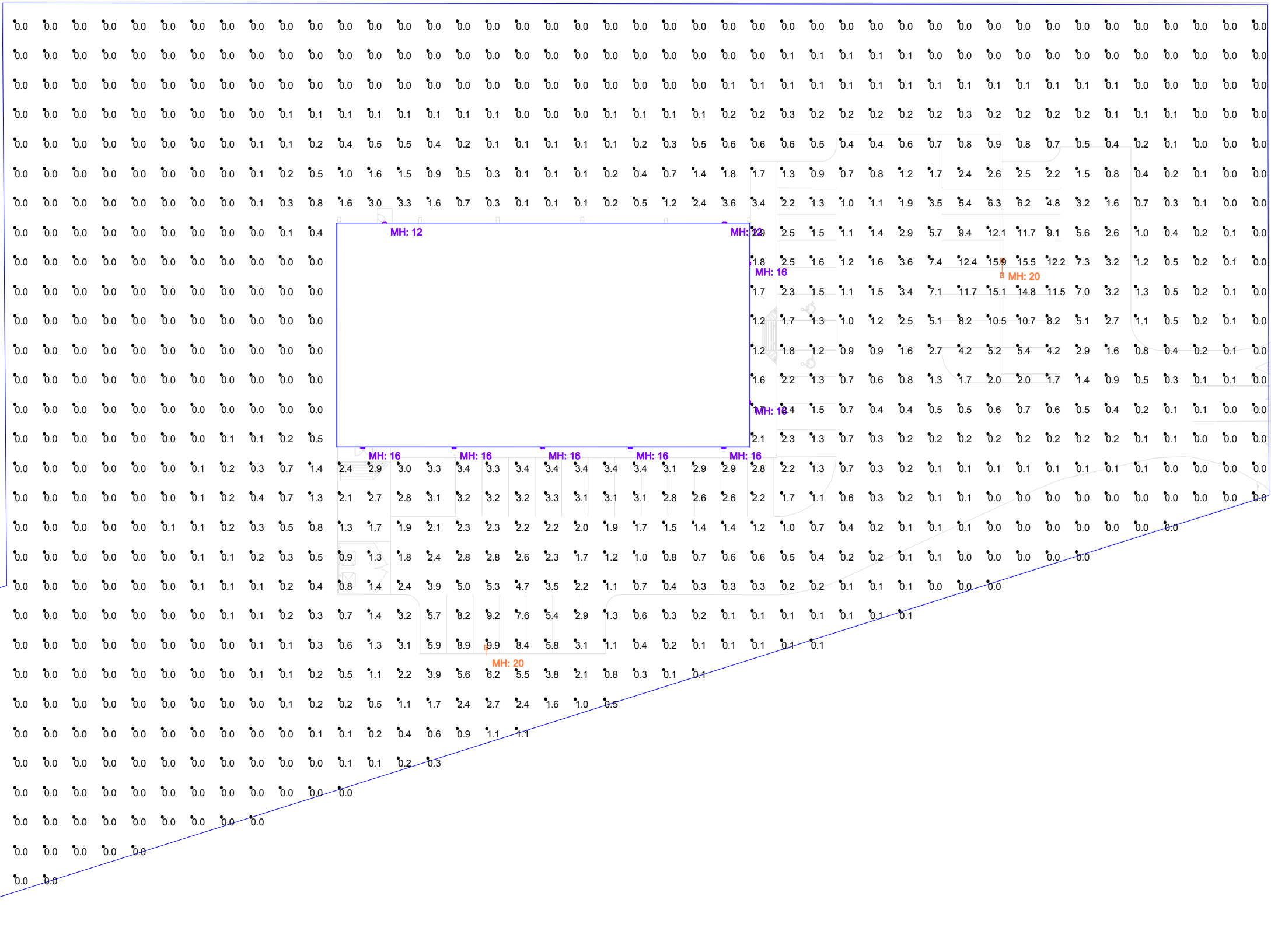
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ELECTRICAL SITE PLAN

SHEET NO.
ES1



Layout designs are based on information provided by the client and are only to be used as USLED recommendations for luminaire placement. Determination of luminaire application within existing or new field conditions is the responsibility of the engineer and/or architect.
 The illumination level calculations within this layout are of those luminaires that have been laboratory tested under controlled conditions in accordance with Illuminating Engineering Society standard practices. Performance of any USLED luminaire may vary based on any varying field conditions. Unless otherwise noted, calculations do not include landscaping, buildings, curbs, or any other architectural elements which may alter the results.




DG #25355 - Basom NY (E).AGI
 Date:7/3/2024
 Project Name: 10640 SF A
 Prepared For: Dollar General

500 Morris Oliver Way
 Suite 200
 Katy, TX 77494

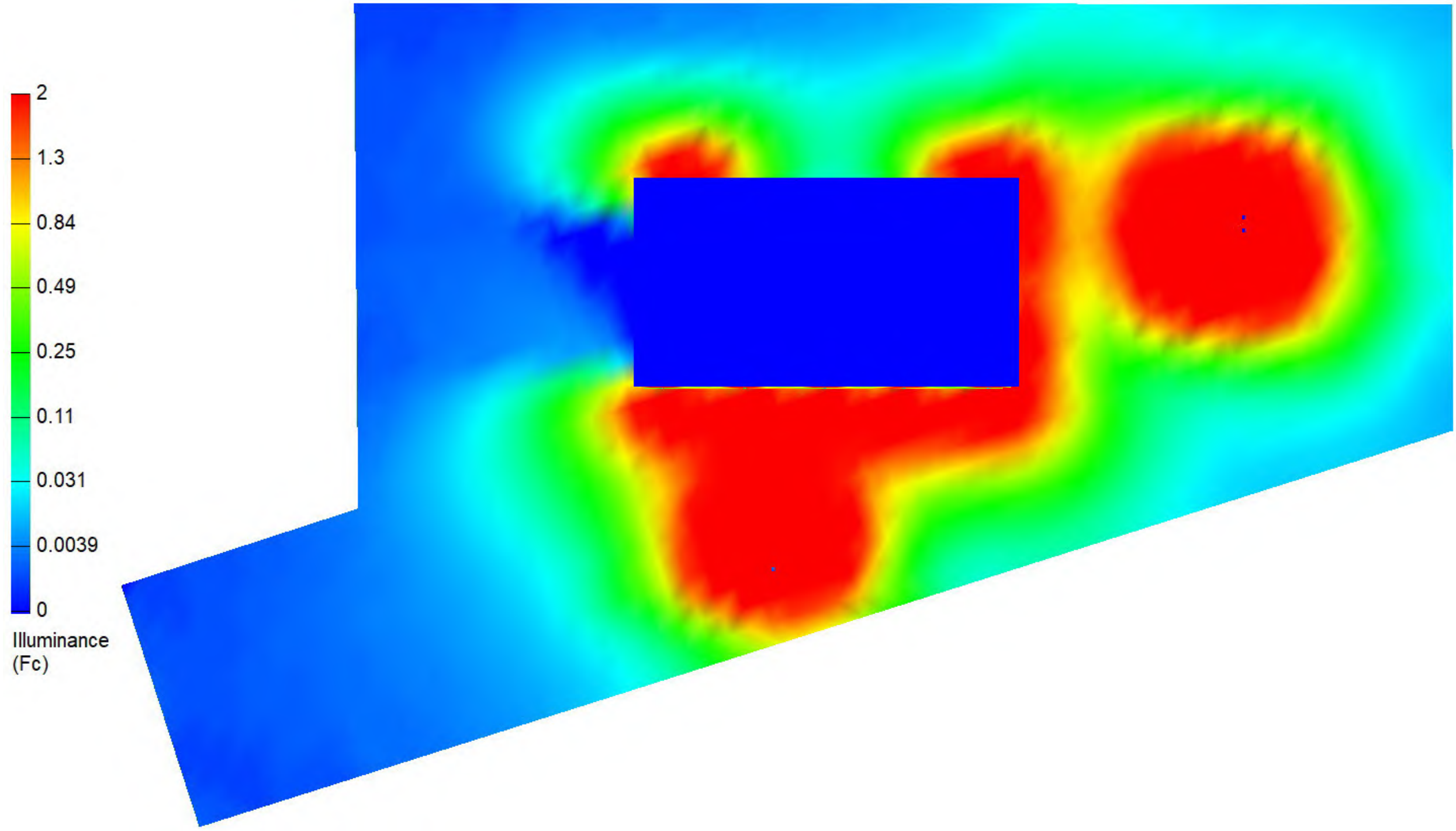
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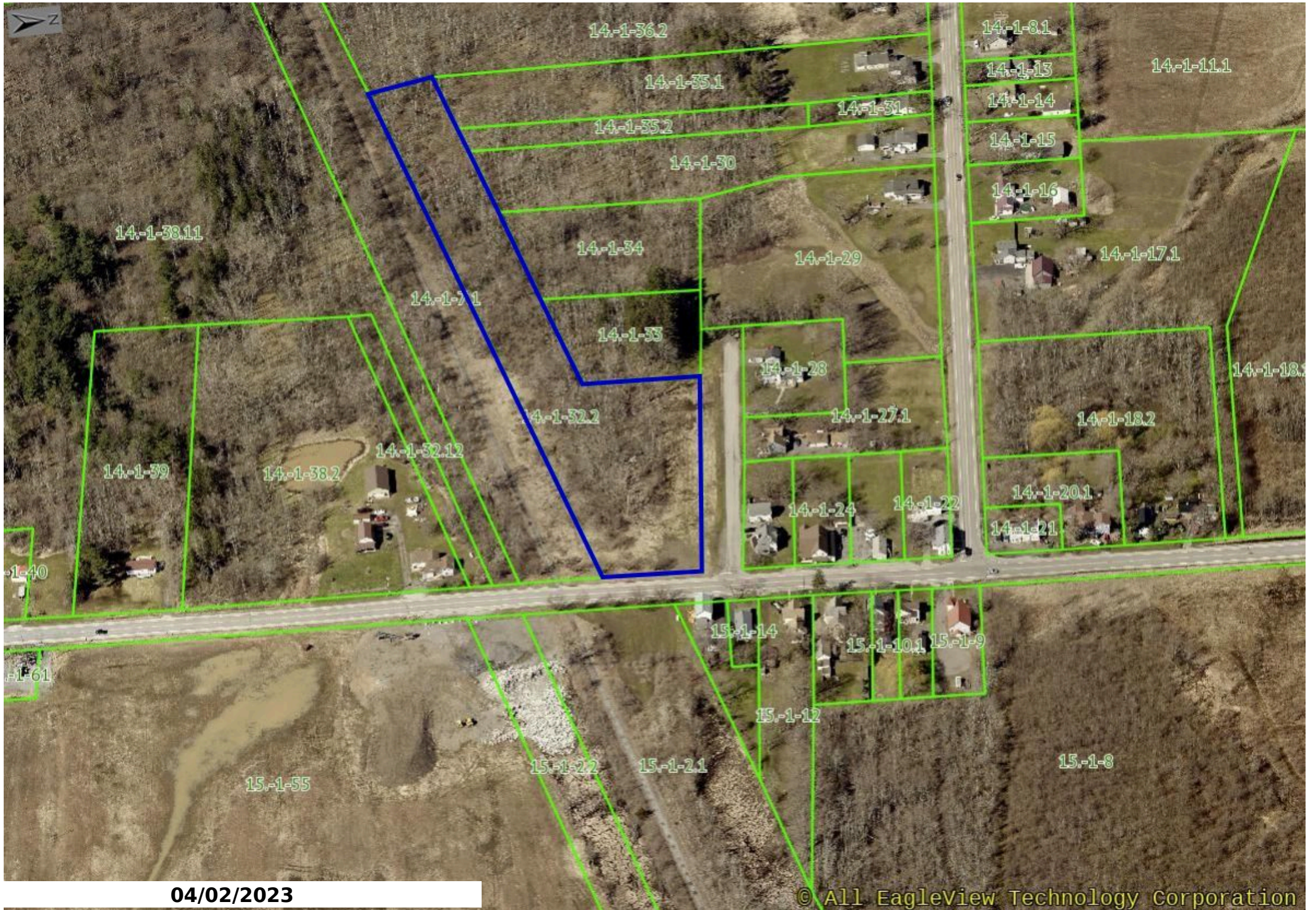
Luminaire Schedule										
Symbol	Qty	Label	Description	Arrangement	LLF	Lum. Watts	Total Watts	Lum. Lumens	MH	
	1	QDXLR-150-50-UNVL-1-3-N-Z5	Pole Single - Dorado XLR 19115lm 148W 120-277V 5000K 3M Lens	SINGLE	0.963	148.6	148.6	20790	20'	
	9	WPR3-UNVL-30-4-50-BZ	Wall Pack 37.1W 4701 Lumens 5000K Bronze	SINGLE	0.963	30	270	4616	20'	
	1	QDXLR-150-50-UNVL-1-3-N-Z5B2B	Pole Single - Dorado XLR 19115lm 148W 120-277V 5000K 3M Lens	BACK-BACK	0.963	148.6	297.2	20790	12'/16'	

Calculation Summary @ GRADE - Calculation Points = 10'x10'						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
Ground 1_Planar	Fc	0.86	15.9	0.0	N.A.	N.A.



Layout designs are based on information provided by the client and are only to be used as USLED recommendations for luminaire placement. Determination of luminaire application within existing or new field conditions is the responsibility of the engineer and/or architect. The illumination level calculations within this layout are of those luminaires that have been laboratory tested under controlled conditions in accordance with Illuminating Engineering Society standard practices. Performance of any USLED luminaire may vary based on any varying field conditions. Unless otherwise noted, calculations do not include landscaping, buildings, curbs, or any other architectural elements which may alter the results.

T-06-ALA-08-24



04/02/2023

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STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Prepared for Construction Activities At:

7174 Alleghany Road
Alabama, NY 14040

SWPPP Prepared For:

The Broadway Group, LLC
216 Westside Square
Huntsville, AL 35801
(256)533-7287

SWPPP Prepared By:

WMB Geologic & Engineering Services, DPC
David W. Young, PE
284 Route 17C
Waverly, NY 14892
(607)738-2704

SWPPP Preparation Date:

June 28, 2023

Estimated Project Start and End Dates:

September 1, 2023 – June 1, 2024

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1. PROJECT NARRATIVE

This Stormwater Pollution Prevention Plan (SWPPP) have been prepared for earth disturbance activities associated with the construction of a 10,566 square foot commercial building located at 7174 Alleghany Road (SR 77) (Project Site) in the Town of Alabama, Genesee County, NY.

This SWPPP includes the elements necessary to comply with the national baseline general permit for construction activities enacted by the U.S. Environmental Protection Agency (EPA) under the National Pollutant Discharge Elimination System (NPDES) program and all local governing agency requirements. This SWPPP must be implemented at the start of construction.

This SWPPP have been developed in accordance with the “New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) General Permit Number GP-0-20-001, effective January 29, 2020 through January 28, 2025. The SWPPP and accompanying plans identify and detail stormwater management, pollution prevention, and erosion and sediment control measures necessary during and following completion of construction.

This SWPPP and the accompanying plans entitled “7174 Alleghany Road Commercial Building” have been submitted as a set. These engineering drawings are considered an integral part of this SWPPP. Therefore, this SWPPP is not considered complete without them. References made hereing to “the plans” or to a specific “sheet” refer to these drawings.

This report considers the impacts associated with the intended development with the purpose of:

- 1) Maintaining existing drainage patterns as much as possible while continuing the conveyance of upland watershed runoff;
- 2) Controlling increases in the rate of stormwater runoff resulting from the proposed development so as not to adversely alter downstream conditions; and
- 3) Mitigating potential stormwater quality impacts and preventing soil erosion and sedimentation resulting from stormwater runoff generated both during and after construction.

The analysis and design completed and documented in this report is intended to be part of the application made for a commercial development project completed on behalf of the Owner.

2. SWPPP IMPLEMENTATION RESPONSIBILITIES

A summary of the responsibilities and obligations of all parties involved with compliance with the NYSDEC SPDES General Permit GP-0-20-001 conditions is outlined in the subsequent sections. For a complete listing of the definitions, responsibilities, and obligations, refer to the SPDES General Permit GP-0-20-001 presented in Appendix A.

A. Definitions:

1. "General SPDES Permit" means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 authorizing a category of discharges.
2. "Owner" or "Operator" means the person, persons, or legal entity which owns or leases the property on which the construction activity is occurring; an/or an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications. There may be occasions during the course of a project in which there are multiple Owners/Operators, all of which will need to file and maintain the appropriate SWPPP documents and plans, including without limitation, the Notice of Intent (NOI) and Notice of Termination (NOT).
3. "Owner's/Operator's Engineer" means the person or entity retained by an Owner/Operator to design and oversee the implementation of the SWPPP.
4. "Contractor" means the person or entity identified as such in the construction contract with the Owner/Operator. The term "Contractor" shall also include the Contractor's authorized representative, as well as any and all subcontractors retained by the Contractor.
5. "Qualified Inspector" means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that an individual working under direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

NOTE: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

6. "Qualified Professional" means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect, or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (See Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.
7. "Trained Contractor" means an employee from a contracting (construction) company, identified in Part III.A.6. of the SPDES General Permit, that has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *Trained Contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from a contracting (construction) company, identified in Part II.A.6 of the SPDES General Permit, that meets the Qualified Inspector qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity.

The "Trained Contractor(s)" will be responsible for the day to day implementation of the SWPPP.

B. Owner's/Operator's Responsibilities

1. Ensure that control measures are selected, designed, installed, implemented and maintained to minimize the discharge of pollutants and prevent a violation of the water quality standards, meeting the non-numeric effluent limitations in Part I.B.1.(a)-(f) of the SPDES General Permit and in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.

2. Ensure that practices are selected, designed, installed, and maintained to meet the performance criteria in the Design Manual. Practices must be designed to meet the applicable sizing criteria in Part I.C.2.a., b., c. or d. of SPDES General Permit.
3. Retain the services of a “Qualified Inspector” or “Qualified Professional” as defined under *Definitions* above, to provide the services outlined in *Qualified Inspector’s/Qualified Professional’s Responsibilities* below.
4. Retain the services of a “Qualified Professional,” as defined under *Definitions* above, to provide the services outlined in *Owner’s/Operator’s Engineers Responsibilities*.
5. Have an authorized corporate officer sign the completed NOI. A copy of the completed NOI is included in Appendix B.
6. Submit the electronic version of the NOI (ENOI) using the NYSDEC’s website (<http://www.dec.ny.gov/chemical/43133.html>):

NOTICE OF INTENT

NYS DEC, Bureau of Water Permits 625 Broadway, 4th Floor
Albany, New York 12233-3505

Mike Morris
Town of Alabama
2218 Judge Road
Oakfield, NY 14125
585-948-9341 x5

7. Pay the required initial and annual fees upon receipt of invoices from NYSDEC. These invoices are generally issued in the fall of each year. The initial fee is calculated as \$110.00 per acre disturbed plus \$675.00 per acre of net increase in impervious cover, and the annual fee is \$110.00.
8. Prior to the commencement of construction activity, identify the contractor(s) and subcontractor(s) that will be responsible for implementing the erosion and sediment control measures and stormwater management practices described in this SWPPP. Have each of these contractors and subcontractors identify at least one “Trained Contractor”, as defined under *Definitions* above that will be responsible for the implementation of the SWPPP. Ensure that the Contractor has at least one “Trained Contractor” on site on a daily basis when soil disturbance activities are being performed.
9. Schedule a pre-construction meeting which shall include the Town of Alabama representative, Owner’s/Operator’s Engineer, Contractor, and their sub-contractors to discuss responsibilities as they relate to the implementation of this SWPPP.

10. Retain the services of an independent certified materials testing and inspection firm operating under the direction of a licensed Professional Engineer to perform regular tests, inspections, and certifications of the construction materials used in the construction of all post-construction stormwater management practices.
11. Retain the services of a NYS licensed land surveyor to perform an as-built topographic survey of the completed post-construction stormwater management facilities.
12. Require the Contractor to fully implement the SWPPP prepared for the site by the Owner/Operator's Engineer to ensure that the provisions of the SWPPP are implemented from the commencement of construction activity until all areas of disturbance have achieved final stabilization and the Notice of Termination (NOT) has been submitted to the NYSDEC.
13. Forward a copy of the NOI Acknowledgement Letter received from the regulatory agency to the Owner's/Operator's Engineer for project records, and to the Contractor for display at the construction site.
14. Maintain a copy of the SPDES General Permit (GP-0-20-001), NOI, NOI Acknowledgement Letter, SWPPP, inspection reports, Spill Prevention, Countermeasures, Cleanup ("SPCC") Plan, and all documentation in accordance with Part I.F.8.a.-d of the SPDES General Permit necessary to demonstrate eligibility with the permit at the construction site, until all disturbed areas have achieved final stabilization and the NOT has been submitted to the NYSDEC. Place documents in a secure location that must be accessible during normal business hours to an individual performing a compliance inspection.
15. Prior to submitting a Notice of Termination, ensure that post-construction stormwater management practice(s) that are privately owned, the Owner/Operator has a deed restriction in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.
16. Submit a Notice of Termination (NOT) form (see Appendix B) within 48 hours of receipt of the Owner's/Operator's Engineer's certification of final site stabilization to the following:

NOTICE OF TERMINATION
NYS DEC, Bureau of Water Permits 625 Broadway, 4th Floor
Albany, New York 12233-3505

Mike Morris
Town of Alabama
2218 Judge Road
Oakfield, NY 14125
585-948-9341 x5

17. Request and receive all SWPPP records from the Owner's/Operator's Engineer and archive those records for a minimum of five (5) years after the NOT is filed.
18. Implement the Post-Construction Inspections and Maintenance procedures outlined in Appendix F.
19. The NOI, SWPPP, and inspection reports required by the NPDES General Permit are public documents that the Owner/Operator must make available for review and copying by any person within five (5) business days of the Owner/Operator receiving a written request by any such person to review the NOI, SWPPP, or inspection reports. Copying of documents will be done at the requester's expense.
20. The Owner/Operator must keep the SWPPP current at all times. At a minimum, the Owner/Operator shall amend the SWPPP:
 - a) Whenever the current provisions prove to be ineffective in minimizing pollutants in stormwater discharges from the project site;
 - b) Whenever there is a change in design, construction, or operation at the construction site that has or could have an effect on the discharge of pollutants; and
 - c) To address issues or deficiencies identified during an inspection by the "Qualified Inspector," the Department, or other Regulatory Authority.

C. Owner's/Operator's Engineer's Responsibilities

1. Prepare the SWPPP using good engineering practices, best management practices, and in compliance with all federal, state, and local regulatory requirements.
2. Prepare the Notice of Intent (NOI) form (see Appendix B), sign the "SWPPP Preparer Certification" section of the NOI, and forward to Owner/Operator for signature.
3. Provide copies of the SWPPP to the Town of Alabama once all signatures and attachments are complete.
4. Enter Contractor's information in Section 2.F "SWPPP Participants" once a Contractor is selected by the Owner/Operator.
5. Update the SWPPP each time there is a significant modification to the pollution prevention measures or a change of the principal Contractor working on the project who may disturb site soil.

D. Contractor's Responsibilities

1. Sign the SWPPP Contractor's Certification Form contained within Appendix D and forward to the Owner's/Operator's Engineer for inclusion in the Site Log Book.

2. Identify at least one Trained Contractor that will be responsible for implementation of this SWPPP. Ensure that at least one Trained Contractor is on site on a daily basis when soil disturbance activities are being performed. The Trained Contractor shall inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating conditions at all times. If deficiencies are identified, the contractor shall begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.
3. Provide the names and addresses of all subcontractors working on the project site. Require all subcontractors who will be involved with construction activities that will result in soil disturbance to identify at least one Trained Contractor that will be on site on a daily basis when soil disturbance activities are being performed; and to sign a copy of the Subcontractor's Certification Form contained within Appendix D, then forward to the Owner's/Operator's Engineer for inclusion into the Site Log Book. This information must be retained as part of the Site Log Book.
4. Maintain a Spill Prevention and Response Plan in accordance with requirements outlined in Section 4.E. of this SWPPP. This plan shall be provided to the Owner's/Operator's Engineer for inclusion in the Site Log Book, prior to mobilization on-site.
5. Participate in a pre-construction meeting which shall include the Town of Alabama representative, Owner/Operator, Owner's/Operator's Engineer, and all subcontractors to discuss responsibilities as they relate to the implementation of this SWPPP.
6. If Contractor plans on utilizing adjacent properties for material, waste, borrow, or equipment storage areas, or if Contractor plans to engage in industrial activity other than construction (such as operating asphalt and/or concrete plants) at the site, Contractor shall submit appropriate documentation to the Owner's/Operator's Engineer so that the SWPPP can be modified accordingly.
7. Implement site stabilization, erosion and sediment control measures, and other requirements of the SWPPP.
8. In accordance with the requirements in the most current version of the NYS Standards and Specifications for Erosion and Sediment Control, conduct inspections of erosion and sediment control measures installed at the site to ensure that they remain in effective operating condition at all times. Prepare and retain written documentation of inspections as well as of all repairs/maintenance activities performed. This information must be retained as part of the Site Log Book.
9. Begin implementing corrective actions within one (1) business day of receipt of notification by the Qualified Inspector/Qualified Professional that deficiencies exist with the erosion

and sediment control measures employed at the site. Corrective actions shall be completed within a reasonable time frame.

10. Maintain a record of the date(s) and location(s) that soil restoration is performed in accordance with the accompanying plans and NYSDEC Division of Water's publication "Deep-Ripping and Decompaction," dated April 2008. A copy of this publication is provided in Appendix L. The record that is to be maintained shall be a copy of the overall site grading plan delineating the area(s) and date(s) that the soil was restored.
11. Upon completion of all construction at the site, the contractor responsible for overall SWPPP Compliance shall sign the certification on their Contractor Certification Form indicating that: a.) all temporary erosion and sediment control measures have been removed from the site, b.) the on-site soils disturbed by construction activity have been restored in accordance with the SWPPP and the NYSDEC Division of Water's publication "Deep-Ripping and Decompaction," and c.) all permanent stormwater management practices required by the SWPPP have been installed in accordance with the contract documents.

E. Qualified Inspector's/Qualified Professional's Responsibilities

1. Participate in a pre-construction meeting with the Town of Alabama representative, Owner/Operator, Contractor, and their subcontractors to discuss responsibilities as they relate to the implementation of this SWPPP.
2. Conduct an initial assessment of the site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment control measures described within this SWPPP have been adequately installed and implemented to ensure overall preparedness of the site.
3. Provide on-site inspections to determine compliance with the SWPPP. Site inspections shall occur at an interval of at least once every seven calendar days. A written inspection report shall be provided to the Owner/Operator and general contractor within one business day of the completion of the inspection, with any deficiencies identified. A sample inspection form is provided in Appendix E.
4. Prepare an inspection report subsequent to each and every inspection that shall include/address the items listed in Part IV.C.4.a-k of SPDES GENERAL PERMIT. Sign all inspection reports and maintain on site with the SWPPP.
5. Notify the owner/operator and appropriate contractor or subcontractor of any corrective actions that need to be taken.
6. Prepare a construction Site Log Book to be used as a record of all inspection reports generated throughout the duration of construction. Ensure that the construction Site Log Book is maintained and kept up-to-date throughout the duration of construction.

7. Review the Contractor's SWPPP records on a periodic basis to ensure compliance with the requirements for daily reports, soil restoration, inspections, and maintenance logs.
8. Based on the as-built survey and material testing certifications performed by others, perform evaluations of the completed stormwater management practices to determine whether they were constructed in accordance with this SWPPP.
9. Conduct a final site assessment and prepare a certification letter to the Owner/Operator indicating that, upon review of the material testing and inspection reports prepared by the firm retained by the Owner/Operator, review of the completed topographic survey, and evaluation of the completed stormwater management facilities, the stormwater management facilities have been constructed substantially in accordance with the contract documents and should function as designed.
10. Prepare the Notice of Termination (NOT). Sign the NOT Certifications VI (Final Stabilization) and VII (Post-construction Stormwater Management Practices) and forward the NOT to the Owner/Operator for signature on Certification VIII (Owner/Operator Certification).
11. Transfer the SWPPP documents, along with all NOI's, permit certificates, NOT's, construction Site Log Book, and written records required by the General Permit to the Owner/Operator for archiving.

F. SWPPP Participants

1. OWNER/OPERATOR: The Broadway Group, LLC
 216 Westside Square
 Huntsville, AL 35801
 (256)533-7287

2. OWNER'S/OPERATOR'S David W. Young, PE
ENGINEER: WMB Geologic and Engineering Services, DPC
 284 Route 17C
 Waverly, NY 14892
 (607)738-2704

3. CONTRACTOR¹: Name and Title: _____

 Company Name: _____

 Mailing Address: _____

 Phone: _____

 Fax: _____

1 Contractor's informaton to be entered once the Contractor has been selected.

3. EXISTING SITE CONDITIONS

A. Land Use And Topography

The Project Site is located at the intersection of Broadway Road (SR20) and Pinkham Road within the Town of Alabama Commercial (C) zoning district. A retail facility is an approved use within this district.

Land Uses surrounding the Project Site include:

1. Residential Development to the south, east and northeast;
2. Agricultural to the north; and
3. Commercial to the west.

The overall Project Site is fairly flat with a minor drop in elevation along the western property boundary. Development site elevations range from approximately 1026 feet above mean sea level (MSL) on the southern property boundary to 1019 feet MSL in the northwest corner of the property at a small drainage channel. This channel flows to the south along the western property boundary.

B. Soils And Groundwater

The United States Department of Agriculture (USDA) Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/>) was used to obtain surficial soil conditions for the Project Site. The soils map for the Project Site is included in this report as Appendix H - Figure H4. Soil data for the Project Site as provided by the USDA is presented in Table 1.

TABLE 1 – USDA SOIL DATA

Map Symbol & Description	Hydrologic Soil Group	Depth to Water Table (Inches)	Depth to Bedrock (inches)
La - Lakemont Silty Clay Loam, 0-3% Slopes	D	0	>80
OdA – Odessa Silt Loam, 0-3% Slopes	D	6-18	>80

Upon review of the soil data presented in Table 1, the project site does not contain soils with a soil slope phase of E or F.

The Soil Conservation Service defines the hydrologic soil groups as follows:

- Type A Soils: Soils having a high infiltration rate and low runoff potential when thoroughly wet. These soils consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a moderate rate of water transmission.

- Type B Soils: Soils having a moderate infiltration rate when thoroughly wet and consisting mainly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately coarse textures. These soils have a moderate rate of water transmission.
- Type C Soils: Soils having a low infiltration rate when thoroughly wet and consisting chiefly of soils with a layer that impedes downward movement of water and soils with moderately fine-to-fine texture. These soils have a low rate of water transmission.
- Type D Soils: Soils having a very low infiltration rate and high runoff potential when thoroughly wet. These soils consist chiefly of clays that have high shrink-swell potential, soils that have a permanent high water table, soils that have a clay pan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very low rate of water transmission.

C. Watershed Designation

The Project Site is not located in a restricted watershed identified in Appendix C of the NPDES General Permit.

D. Receiving Water Bodies

The nearest natural classified water course into which runoff from the project site will discharge is Stream 837-79, Whitney Creek. Whitney Creek is classified by NYSDEC as a Class C water course and is not included in the Section 303(d) list of impaired waters found in Appendix E of SPDES GENERAL PERMIT. A copy of the SPDES GENERAL PERMIT is attached to this SWPPP as Appendix A.

E. Aquifer Designation

The project site is not located over a US EPA designated Sole Source aquifer; nor is it located over a Primary or Principal aquifer listed in the NYSDEC Technical and Operational Guidance Series (TOGS) 2.1.3 (1980).

F. Wetlands

The New York State Department of Environmental Conservation Environmental Resource Mapper indicates that State regulated wetlands are not located on or near the overall project parcel. The NYSDEC wetland bearing the designation AX-8 is located to the south approximately 1,600 feet from the Project Site. This wetland is located completely on an adjacent parcel. No impact is anticipated to this NYSDEC Wetland as a result of the proposed project.

G. Floodplains

According to the National Flood Insurance Program Flood Insurance Rate Map (FIRM), Town of Alabama, New York, Community Panel Number 361067 C, the project site lies within Flood Zone C, an area outside the 500-year flood.

H. Listed, Endangered, Or Threatened Species

The Project Site was reviewed for the presence of Listed, Endangered or Threatened Species of plant and animal life. The NYSDEC Environmental Resource Mapper shows the site within an area of rare plants or animals. Upon research, the NYSDEC environmental assessment form identified the endangered or threatened species as the northern harrier.

I. Historic Places

A search on the New York State Cultural Resource Information System (CRIS) database, performed on March 28, 2023, revealed the construction activity is not located within an archeologically sensitive area. A printout of the historic places screening map is presented in Appendix H, as Figure H3.

To confirm the information gained from the CRIS database, coordination with the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) was completed. An NYSOPRHP letter was received clearing the site and is attached to this SWPPP as Appendix N.

J. Rainfall Data

Rainfall data utilized in the stormwater modeling and analysis was obtained from the National Oceanic and Atmospheric Administration online Point Precipitation Frequency Estimates website. An IDF file was imported into HydroCAD to evaluate the pre- and post-development stormwater runoff characteristics. Mass curves specific to the project site were generated by HydroCAD from the IDF file. Rainfall data specific to the portion of Alabama County under consideration, for various 24-hour storm events, is presented in the following Table:

Design Storm	24-Hour Rainfall (Inches)
1-year	1.90
10-year	3.27
100-year	4.91

4. EROSION & SEDIMENT CONTROLS

The SWPPP and accompanying plans identify the temporary and permanent erosion and sediment control measures that have been incorporated into the design of this project. These measures will be implemented during construction, to minimize soil erosion and control sediment transport off-site, and after construction, to control the quality and quantity of stormwater runoff from the developed site.

Erosion control measures, designed to minimize soil loss, and sediment control measures, intended to retain eroded soil and prevent it from reaching water bodies or adjoining properties, have been developed in accordance with the following documents:

- NYSDEC SPDES General Permit for Stormwater Discharges From Construction Activity, Permit No. GP-0-20-001 SPDES GENERAL PERMIT (effective January 29, 2020 through January 28, 2025)
- New York State Standards and Specifications for Erosion and Sediment Control, NYSDEC (November 2016)

The SWPPP and accompanying plans outline the construction scheduling for implementing the erosion and sediment control measures. These documents include limitations on the duration of soil exposure, criteria and specifications for placement and installation of the erosion and sediment control measures, a maintenance schedule, and specifications for the implementation of erosion and sediment control practices and procedures.

Temporary and permanent erosion and sediment control measures that shall be applied during construction generally include:

1. Minimizing soil erosion and sedimentation by stabilization of disturbed areas and by removing sediment from construction site discharges.
2. Preservation of existing vegetation to the greatest extent practical. Following the completion of construction activities in any portion of the site, permanent vegetation shall be established on all exposed soils.
3. Site preparation activities to minimize the area and duration of soil disruption.
4. Establishment of permanent traffic corridors to ensure that "routes of convenience" are avoided.

A. Construction Sequence

Less than five acres of land disturbance of on-site and additional off-site properties to facilitate construction is anticipated. Therefore, written approval from the Town of Alabama allowing the disturbance of more than five acres of land at any one time is not required. Should the Contractor's construction sequence require the disturbance of more than five acres at any one

time, written approval must be obtained from the Town of Alabama prior to disturbing more than five acres.

The "Erosion and Sediment Control Plan" in the accompanying drawings identifies the major construction activities that are the subject of this SWPPP. The order (or sequence) in which the major activities are expected to begin is presented on the accompanying drawings, though each activity will not necessarily be completed before the next begins. In addition, these activities could occur in a different order if necessary to maintain adequate erosion and sediment control. If this is the case, the contractor shall notify the Owner's/Operator's Engineer overseeing the implementation of the SWPPP.

The Contractor will be responsible for implementing the erosion and sediment control measures identified on the plans. The Contractor may designate these tasks to certain subcontractors as they see fit, but the ultimate responsibility for implementing these controls and ensuring their proper function remains with the Contractor. Refer to the accompanying plans for details and specifications regarding the construction sequencing schedule.

B. Temporary Erosion And Sediment Control Measures

The temporary erosion and sediment control measures described in the following sections are included as part of the construction documents.

1. Stabilized Construction Entrance

Prior to construction, stabilized construction entrance(s) will be installed, per accompanying plans, to reduce the tracking of sediment onto public roadways.

Construction traffic must enter and exit the site at the stabilized construction entrance(s). The intent is to trap dust and mud that would otherwise be carried off-site by construction traffic.

The entrance(s) shall be maintained in a condition, which will control tracking of sediment onto public rights-of-way or streets. When necessary, additional aggregate will be placed atop the filter fabric to assure the minimum thickness is maintained. All sediment and/or soil spilled, dropped, or washed onto public rights-of-way must be removed immediately. Periodic inspection and needed maintenance shall be provided after each substantial rainfall event.

2. Dust Control

Water trucks shall be used as needed during construction to reduce dust generated on-site. Dust control must be provided by the Contractor(s) to a degree that is acceptable to the Owner, and in compliance with the applicable local and state dust control requirements.

3. Temporary Soil Stockpile

Materials, such as topsoil, will be temporarily stockpiled (if necessary) on the site during the construction process. Stockpiles shall be located in an area away from storm drainage,

water bodies and/or courses, and will be properly protected from erosion by a surrounding silt fence barrier.

4. Silt Fencing

Prior to the initiation of and during construction activities, a geotextile filter fabric (or silt fence) will be established downgradient of all disturbed areas. These barriers may extend into non-impact areas to provide adequate protection of adjacent lands.

Clearing and grubbing will be performed only as necessary for the installation of the sediment control barrier. To facilitate effectiveness of the silt fencing, daily inspections and inspections immediately after significant storm events will be performed by the Contractor(s). Maintenance of the fence will be performed as needed.

5. Compost Filter Sock

Prior to the initiation of and during construction activities, a compost filter sock (or silt sock) will be established downgradient of all disturbed areas. These filters may extend into non-impact areas to provide adequate protection of adjacent lands. The spacing of the compost filter sock, which will depend on the ground slope and diameter of the sock, shall be based upon New York State or EPA guidance.

Clearing and grubbing will be performed only as necessary for the installation of the sediment control filter; and unlike sediment control barriers, trenching is not required. The ends of the filter sock should be directed upslope, to prevent stormwater from running around the end of the sock. The preferred anchoring method is to drive stakes through the center of the sock at regular intervals; alternatively, stakes can be placed on the downstream side of the sock. To facilitate effectiveness of the compost filter sock, daily inspections and inspections immediately after significant storm events will be performed by the Contractor(s) to ensure that they are intact and the area behind the sock is not filled with sediment. Maintenance of the sock will be performed as needed.

6. Temporary Seeding

For areas undergoing clearing, grading, and disturbance as part of construction activities, where work has temporarily ceased, temporary soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the soil disturbance activity has temporarily ceased.

7. Stone and Block Drop Inlet Protection

Concrete blocks surrounded by wire mesh and crushed stone will be placed around both existing catch basins, and proposed catch basins once they have been installed, to prevent sediment from entering the catch basins and storm sewer system. During construction, crushed stone shall be replaced as necessary to ensure proper function.
Filter Fabric Drop Inlet Protection

C. Permanent Erosion And Sediment Control Measures

The permanent erosion and sediment control measures described in the following sections are included as part of the construction documents.

1. Establishment of Permanent Vegetation

Disturbed areas that will be vegetated must be seeded in accordance with the contract documents. The type of seed, mulch, and maintenance measures as described in the contract documents shall also be followed.

Permanent soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the soil disturbance activity has permanently ceased.

2. Rock Outlet Protection

Rock outlet protection shall be installed at the locations as indicated and detailed on the accompanying plans. The installation of rock outlet protection will reduce the velocity and energy of water, such that the flow will not erode downstream surfaces.

3. Permanent Turf Reinforcement

Permanent turf reinforcement mats (TRMs) provide long-term erosion protection and vegetation establishment assistance while permanently reinforcing vegetation. TRMs shall be installed on slopes/channels where specified. TRM's provide two key advantages. First, their unique fiber shape and 3-D pattern create a thick matrix of voids that trap seed, soil, and water in place for quicker, thicker vegetation growth. Secondly, they provide additional reinforcement that doubles the vegetation's natural erosion protection abilities by remaining a permanent part of the application and anchoring mature plants to the soil for superior, long-term erosion resistance.

D. Other Pollutant Controls

Other necessary pollutant controls are listed below:

1. Solid and Liquid Waste Disposal

No solid or liquid waste materials, including building materials, shall be discharged from the site with stormwater. All solid waste, including disposable materials incidental to any construction activities, must be collected and placed in containers. The containers shall be emptied periodically by a licensed trash disposal service and hauled away from the site.

Substances that have the potential for polluting surface and/or groundwater must be controlled by whatever means necessary in order to ensure that they do not discharge from the site. As an example, special care must be exercised during equipment fueling and servicing operations. If a spill occurs, it must be contained and disposed of so that it will not flow from the site or enter groundwater, even if this requires removal, treatment, and disposal of soil. In this regard, potentially polluting substances should be handled in a manner consistent with the impact they represent.

2. Sanitary Facilities

Temporary sanitary facilities will be provided by the Contractor throughout the construction phase. They must be utilized by all construction personnel and will be serviced by a licensed commercial Contractor. These facilities must comply with state and local sanitary or septic system regulations.

3. Water Sources

Non-stormwater components of site discharge must be clean water. Water used for construction, which discharges from the site, must originate from a public water supply or private well approved by the Health Department. Water used for construction that does not originate from an approved public supply must not discharge from the site; such water can be retained in temporary ponds/sediment traps until it infiltrates and/or evaporates.

E. Construction Housekeeping Practices

During the construction phase, the Contractor(s) will implement the following measures:

1. Material Stockpiles

Material resulting from clearing and grubbing operations that will be stockpiled on-site, must be adequately protected with downgradient erosion and sediment controls.

2. Equipment Cleaning and Maintenance

The Contractor(s) will designate areas for equipment cleaning, maintenance, and repair. The Contractor(s) and subcontractor(s) will utilize those areas. The areas will be protected by a temporary perimeter berm.

3. Detergents

The use of detergents for large-scale washing is prohibited (i.e., vehicles, buildings, pavement surfaces, etc.)

4. Spill Prevention and Response

A Spill Prevention and Response Plan shall be developed for the site by the Contractor(s). The plan shall detail the steps required in the event of an accidental spill and shall identify contact names and phone numbers of people and agencies that must be notified.

The plan shall include Material Safety Data Sheets (MSDS) for all materials to be stored on-site. All workers on-site will be required to be trained on safe handling and spill prevention procedures for all materials used during construction. Regular tailgate safety meetings shall be held and all workers that are expected on the site during the week shall be required to attend.

5. Concrete Wash Areas

Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water on the site, but only in specifically designated diked and impervious washout areas,

which have been prepared to prevent contact between the concrete wash and stormwater. Waste generated from concrete wash water shall not be allowed to flow into drainage ways, inlets, receiving waters, or highway right of ways, or any location other than the designated concrete wash areas. Proper signage designating the "Concrete Wash Areas" shall be placed near the facility. Concrete wash areas shall be located at minimum 100 linear feet from drainage ways, inlets, and surface waters.

The hardened residue from the concrete wash areas will be disposed of in the same manner as other non-hazardous construction waste materials. Maintenance of the wash area is to include removal of hardened concrete. Facility shall have sufficient volume to contain all the concrete waste resulting from washout and a minimum freeboard of 12 inches. Facility shall not be filled beyond 95% capacity and shall be cleaned out once 75% full unless a new facility is constructed. The Contractor will be responsible for seeing that these procedures are followed.

Sawcut Portland Cement Concrete (PCC) slurry shall not be allowed to enter drainage ways, inlets, and/or surface waters. Sawcut residue should not be left on the surface of pavement or be allowed to flow over and off pavement.

The Project may require the use of multiple concrete wash areas. All concrete wash areas will be located in an area where the likelihood of the area contributing to stormwater discharges is negligible. If required, additional BMPs must be implemented to prevent concrete wastes from contributing to stormwater discharges.

6. Material Storage

Construction materials shall be stored in a dedicated staging area. The staging area shall be located in an area that prevents negative impacts of construction materials on stormwater quality.

Chemicals, paints, solvents, fertilizers, and other toxic material must be stored in waterproof containers. Except during application, the contents must be kept in trucks or within storage facilities. Runoff containing such material must be collected, removed from the site, treated, and disposed of at an approved solid waste or chemical disposal facility.

5. STORMWATER MANAGEMENT PLANNING

Chapter 3 of the New York State Stormwater Management Design Manual (Design Manual) outlines a six-step planning and selection process for site planning and selection of stormwater management practices that must be implemented for both new development and redevelopment projects. This process is intended to develop a design that maintains pre-construction hydrologic conditions through the application of environmentally sound development principles, as well as treatment and control of runoff discharges from the site. The following sections outline the step-by-step process and how it has been applied to this project.

The goals of this Stormwater Management Plan are to analyze the peak rate of runoff under pre- and post-development conditions, to maintain the pre-development rate of runoff in order to minimize impacts to adjacent or downstream properties, and to minimize the impact to the quality of runoff exiting the site.

The Design Manual provides both water quality and water quantity objectives to be met by projects requiring a “Full SWPPP”. These objectives will be met by applying stormwater control practices to limit peak runoff rates and improve the quality of runoff leaving the developed site.

5.1 Step 1 – Site Planning

During the Site Planning process, the project site is evaluated for implementation of the green infrastructure planning measures identified in Table 3.1 of the Design Manual, in order to preserve natural resources and reduce impervious cover. Appendix L provides a description of each green infrastructure planning measure, along with a project specific evaluation.

5.2 Step 2 - Determine Water Quality Treatment Volume (WQv)

Stormwater runoff from impervious surfaces is recognized as a significant contributor of pollution that can adversely affect the quality of receiving water bodies. Therefore, treatment of stormwater runoff is important since most runoff related water quality contaminants are transported from land, particularly the impervious surfaces, during the initial stages of storm events.

5.2.1 NYSDEC Requirements for New Development

The Design Manual requires that water quality treatment be provided for the initial flush of runoff from every storm. The NYSDEC refers to the amount of runoff to be treated as the “Water Quality Volume” (WQv). Section 4.2 of the Design Manual defines the Water Quality Volume as follows:

$$WQ_v = \frac{[(P)(R_v)(A)]}{12}$$

Where: P = 90% Rainfall Event Number

R_v = 0.05 + 0.009 (I)

I = Impervious Cover (Percent)

A = Contributing Area in Acres

This definition ensures that, all other things being equal, the Water Quality Volume will increase along with the impervious cover percentage.

5.2.2 Methodology

The Water Quality Volume equation has been applied to the drainage area tributary to each of the stormwater quality practices proposed for this project. The practices have been sized to accommodate the Water Quality Volume, as per the performance criteria presented in Chapter 6 of the Design Manual. Water quality volume calculations for each of the proposed practices are presented in Appendix L.

5.3 Step 3 – Apply Runoff Reduction Techniques and Standard SMPs with RR_v Capacity to Reduce Total WQ_v

Land use change and development in the watershed increases the volume of runoff. As such, reductions in the amount of runoff from new development, accomplished through the implementation of a stormwater management plan for the site, will play an important role in the success or failure of the watershed-wide stormwater management plan. Runoff reduction techniques can be applied to manage, reduce, and treat stormwater, while maintaining and restoring natural hydrology through infiltration, evapo-transpiration, and the capture and reuse of stormwater. Volume reduction techniques by themselves typically are not sufficient to provide adequate attenuation of stormwater runoff, but they can decrease the size of the peak runoff rate reduction facilities.

5.3.1 NYSDEC Requirements for New Development

The Design Manual states that runoff reduction shall be achieved through infiltration, groundwater recharge, reuse, recycle, and/or evaporation/evapotranspiration of 100-percent of the post-development water quality volume to replicate pre-development hydrology. Runoff control techniques provide treatment in a distributed manner before runoff reaches the collection system, by maintaining preconstruction infiltration, peak runoff flow, discharge volume, as well as minimizing concentrated flow. This can be accomplished by applying a combination of Runoff Reduction Techniques, standard Stormwater Management Practices (SMPs) with RR_v capacity, and good operation and maintenance.

5.3.2 Methodology

In order to reduce the required WQv, a site specific evaluation must be performed to determine the most practical means of reducing runoff volume. The Design Manual strongly encourages implementation of a combination of RR techniques and standard SMPs with RRv capacity. The following Table demonstrates a summary of the RRv practices being applied, and both the water quality and runoff reduction volumes they provide. The RR Technique(s) have been designed in accordance with Chapter 5 of the Design Manual. The standard SMP(s) with RRv capacity have been designed in accordance with Chapter 6 of the Design Manual. Refer to the contract drawings for practice dimensions, material specifications, and installation details. Practice specific calculations are presented in Appendix L.

Table 3: Summary of RR Techniques and Standard SMPs with RRv Capacity

5.3.3 Application of Standard Stormwater Management Practices (SMPs) with RRv Capacity

The standard SMPs with RRv capacity, described in the following section, have been incorporated into the stormwater management plan for this project. Design calculations for each measure have been included in Appendix L.

5.3.3.1 Bioretention (F-5)

Bioretention filters are shallow landscaped depressions commonly located in parking lot islands or within small pockets in residential areas that receive stormwater runoff. Stormwater flows into the bioretention area, ponds on the surface, and is gradually infiltrated into the soil bed. Pollutants are removed by a number of processes, such as adsorption, filtration, volatilization, ion exchange, and decomposition. Filtered runoff can either be allowed to infiltrate into the surrounding soil, functioning as an infiltration basin or rainwater garden or collected by an under drain system and discharged to the storm sewer system or directly to receiving waters, functioning like a surface sand filter. Runoff from larger storms is generally diverted past the bioretention area to the stormwater collection and conveyance system.

The Bioretention filter (F-5) was designed according to the criteria set forth in Section 6.4 “Stormwater Filtering Systems” of the Design Manual.

5.4 Step 4 – Determine the Minimum RRv Required

Projects that cannot achieve 100% of the runoff reduction requirement due to site limitations that prevent the use of an infiltration technique and/or infiltration of the total WQv must, at a minimum, reduce a percentage of the runoff from impervious areas to be constructed on the site. In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than minimum Runoff Reduction Volume (RRvmin) determined by the following equation:

$$RRV_{\min} = \frac{[(P)(Rv^*)(Aic)(S)]}{12}$$

Where: RRV_{\min} = Runoff Reduction Volume (in acre-feet)

P = 90% Rainfall Event Number

Aic = Total area of new impervious cover (acres)

$Rv^* = 0.05 + 0.009(I)$, where I is 100% impervious

S = Hydrologic Soil Group (HSG) Specific Reduction Factor where:

HSG A = 0.55 HSG C = 0.30

HSG B = 0.40 HSG D = 0.20

Based upon the soil survey data, the majority of the development site consists of soils having a hydrologic soil type C/D. As such, a specific reduction factor of 0.25 could be applied, if site limitations prevent 100% of the WQv from being reduced. Those projects implementing the minimum RRV_{\min} , must incorporate additional stormwater management practices to meet the balance of the WQv requirement. Design calculations for the minimum required RRV_{\min} are presented in Appendix L.

5.5 Step 5 – Apply Standard Stormwater Management Practices to Address Remaining Water Quality Volume

If the entire Water Quality Volume is not reduced through implementation of RR techniques and standard SMPs with RRV_{\min} capacity, then the design must achieve the remaining WQv through the standard SMPs listed in Table 3.3 of the Design Manual.

Table 4: Summary of WQv Provided

Step 2 WQv Required (CF)	Step 3 WQv Reduction by RR Techniques & Standard SMPs w/ RRV_{\min} Capacity (CF)	Step 5 Reduced WQv to be Treated by Standard SMPs (CF)
2,573	1,046	1,526

Based upon the results listed in Tables 4, 100% of the required RRV_{\min} and WQv have been met through implementation of RR techniques and standard SMPs with RRV_{\min} capacity as described in Section 6.3 of this report. The bioretention ponds (P1) provide both RRV_{\min} capacity (above the minimum RRV_{\min} volume calculated in Section 6.4 of this report) and provides additional treatment storage equal to the WQv volume remaining, for a total treatment volume equal to the WQv required.

Based on the above, the stormwater quality requirements of the general permit have been met.

5.6 Step 6 - Apply Volume and Peak Rate Control

This report presents the pre-development and post-development features and conditions associated with the rate of surface water runoff within the study area. For both cases, the drainage patterns, drainage structures, soil types, and ground cover types are considered in this study.

5.6.1 NYSDEC Requirements for New Development

Chapter 4 of the Design Manual requires that projects meet three separate stormwater quantity criteria:

1. The Channel Protection (CPv) requirement is designed to protect stream channels from erosion. This is accomplished by providing 24 hours of extended detention for the 1-year, 24-hour storm event. The Manual defines the CPv detention time as the center of mass detention time through each stormwater management practice. The dry detention pond (P2) has a minimum allowed outlet control orifice size of 3" (to prevent clogging), meeting the design requirements of the SWDM.

2. The Overbank Flood Control (Qp) requirement is designed to prevent an increase in the frequency and magnitude of flow events that exceed the bank-full capacity of a channel, and therefore must spill over into the floodplain. This is accomplished by providing detention storage to ensure that, at each design point, the post-development 10-year 24-hour peak discharge rate does not exceed the corresponding pre-development rate.

4. The Extreme Flood Control (Qf) requirement is designed to prevent the increased risk of flood damage from large storm events, to maintain the boundaries of the pre-development 100-year floodplain, and to protect the physical integrity of stormwater management practices. This is accomplished by providing detention storage to ensure that, at each design point, the postdevelopment 100-year 24-hour peak discharge rate does not exceed the corresponding predevelopment rate.

5.6.2 Methodology

In order to demonstrate that the NYSDEC detention requirements are being met, the Design Manual requires that a hydrologic and hydraulic analysis of the pre- and post-development conditions be performed using the Natural Resources Conservation Service Technical Release 20 (TR-20) and Technical Release 55 (TR-55) methodologies. HydroCAD, developed by HydroCAD Software Solutions LLC of Tamworth, New Hampshire, is a Computer-Aided-Design (CAD) program for analyzing the hydrologic and hydraulic characteristics of a given watershed and associated stormwater management facilities. HydroCAD uses the TR-20 algorithms and TR-55 methods to create and route runoff hydrographs.

HydroCAD has the capability of computing hydrographs (which represent discharge rates characteristic of specified watershed conditions, precipitation, and geologic factors) combining hydrographs and routing flows through pipes, streams and ponds. HydroCAD can also calculate the center of mass detention time for various hydraulic features. Documentation for HydroCAD can be found on their website: <http://www.hydrocad.net/>.

For this analysis, the watershed and drainage system was broken down into a network consisting of three types of components as described below:

1. Subcatchment: A relatively homogeneous area of land, which produces a volume and rate of runoff unique to that area.
2. Reach: Uniform streams, channels, or pipes that convey stormwater from one point to another.
3. Pond: Natural or man-made impoundment, which temporarily stores stormwater runoff and empties in a manner determined by its geometry and the hydraulic structure located at its outlets.

Subcatchments, reaches, and ponds are represented by hexagons, squares, and triangles respectively, on the watershed routing diagrams provided with the computations included in Appendix I and Appendix J.

The analysis of hydrologic and hydraulic conditions and proposed stormwater management facilities, servicing the study area, was performed by dividing the tributary watershed into relatively homogeneous subcatchments. The separation of the watershed into subcatchments was dictated by watershed conditions, methods of collection, conveyance, and points of discharge. Watershed characteristics for each subcatchment were then assessed from United States Geological Service (USGS) 7.5-minute topographic maps, aerial photographs, a topographical survey, soil surveys, site investigations, and land use maps.

Proposed stormwater management facilities were designed and evaluated in accordance with the Design Manual and local regulatory requirements. The hydrologic and hydraulic analysis considered the 24-hour storm events identified in Table 5.

Table 5: Design Events

Facility	24-hour Storm Event
Storm Sewer	25-year
Detention Basin (pond)	1-year
	10-year
	100-year
Flood Conditions	100-year

5.6.3 Description of Design Points

The study area consists of an overall watershed that encompasses approximately 3.2 acres and contains the approximate 2.0 acres of the proposed developed area. The overall watershed was assumed to drain to the same low point in the middle of the western property line. This location was analyzed to compare the effects resulting from stormwater management facilities proposed as part of the project. Description of the selected design point is provided below.

- Design Point 1: On-site drainage for the entirety of the site development area (including release from the stormwater ponds) is tributary to the property west of the project site, based on the proposed topography and stormwater design.

5.6.4 Pre-development Watershed Conditions

The pre-development project site is covered predominantly by woodlands and meadows. Analysis of pre-development conditions considered existing drainage patterns, soil types, ground cover, and topography. The Pre-Development Watershed Delineation Map has been provided in Appendix H, as Figure H5.

The results of the computer modeling used to analyze the overall watershed under pre-development conditions are presented in Appendix J. A summary of the pre-development watershed runoff rates at each design point is presented in Table 2.

5.6.5 Post-development Watershed Conditions

The post-development improvements include asphalt access drive, parking lot, building, and the loading area. The analysis of post-development conditions considered existing drainage patterns, soil types, ground cover to remain, planned site development, site grading and, stormwater management facilities proposed as part of site improvements. The Post-Development Watershed Delineation Map has been provided in Appendix H, as Figure H6.

The results of the computer modeling used to analyze the overall watershed under post-development conditions are presented in Appendix K. A summary of the post-development watershed runoff rates for each design point and subcatchment area is presented in Table 2.

5.6.6 Performance Summary

A comparison of the pre- and post-development watershed conditions was performed for all design points and storm events evaluated herein. For all design points and design storms, this comparison demonstrates that the peak rate of runoff will not be increased. Therefore, the project will not have a significant adverse impact on the adjacent or downstream properties or receiving water courses.

The results of the computer modeling used to analyze the pre- and post-development watersheds are presented in Appendix J and Appendix K, respectively. The following Table summarizes the results of this analysis.

Discharge Flow Rate Comparison

Design Storm	1-year (cfs)	10-year (cfs)	100-year (cfs)
DA1 Pre	1.38	4.45	8.71
DA1 Post (No Treatment)	2.10	5.48	9.86

Discharge Volume Comparison

Design Storm	1-year (acre feet)	10-year (acre feet)	100-year (acre feet)
DA1 Pre	0.118	0.351	0.687
DA1 Post (No Treatment)	0.173	0.443	0.808

For each of the stormwater management facilities that provide detention, the maximum allowable diameter of the Channel Protection Volume orifice has been calculated. Calculations are provided in Appendix L.

6. CONSTRUCTION INSPECTION

A. Preconstruction Inspection And Certification

Prior to the commencement of construction, the Qualified Inspector/Qualified Professional shall conduct an assessment of the site and certify that the appropriate erosion and sediment control measures have been adequately installed and implemented. The Contractor shall contact the Qualified Inspector/Qualified Professional once the erosion and sediment control measures have been installed.

B. Construction Phase Inspections And Maintenance

A Qualified Inspector/Qualified Professional, as defined in Appendix A of the General Permit SPDES GENERAL PERMIT, shall conduct regular site inspections between the time this SWPPP is implemented and final site stabilization. Site inspections shall occur at an interval of at least once every seven (7) calendar days.

The purpose of site inspections is to assess performance of pollutant controls. Based on these inspections, the Qualified Inspector/Qualified Professional will decide whether it is necessary to modify this SWPPP, add or relocate sediment barriers, or whatever else may be needed in order to prevent pollutants from leaving the site via stormwater runoff. The general contractor has the duty to cause pollutant control measures to be repaired, modified, maintained, supplemented, or whatever else is necessary in order to achieve effective pollutant control.

Examples of particular items to evaluate during site inspections are listed below. This list is not intended to be comprehensive. During each inspection the inspector must evaluate overall pollutant control system performance as well as particular details of individual system components. Additional factors should be considered as appropriate to the circumstances.

1. Locations where vehicles enter and exit the site must be inspected for evidence of off-site sediment tracking. A stabilized construction entrance will be constructed where vehicles enter and exit. This entrance will be maintained or supplemented as necessary to prevent sediment from leaving the site on vehicles.
2. Sediment barriers must be inspected and, if necessary, they must be enlarged or cleaned in order to provide additional capacity. All material from behind sediment barriers will be stockpiled on the up-slope side. Additional sediment barriers must be constructed as needed.
3. Inspections will evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage system. If necessary, the materials must be covered, or original covers must be repaired or supplemented. Also, protective berms must be constructed, if needed, in order to contain runoff from material storage areas.
4. Grassed areas will be inspected to confirm that a healthy stand of grass is maintained. The site has achieved final stabilization once all areas are covered with building foundation or pavement or have a stand of grass with at least 80 percent density. The

density of 80 percent or greater must be maintained to be considered as stabilized. Areas must be watered, fertilized, and reseeded as needed to achieve this goal.

5. All discharge points must be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters.

The inspection reports must be completed entirely, and additional remarks should be included if needed to fully describe a situation. An important aspect of the inspection report is the description of additional measures that need to be taken to enhance plan effectiveness. The inspection report must identify whether the site was in compliance with the SWPPP at the time of inspection and specifically identify all incidents of non-compliance.

Within one (1) business day of the completion of an inspection, the Qualified Inspector/Qualified Professional shall notify the Owner/Operator and appropriate contractor or subcontractor of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one (1) business day of the notification and shall complete the corrective actions in a reasonable time frame.

In addition to the inspections performed by the Qualified Inspector/Qualified Professional, the Contractor shall perform routine inspections that include a visual check of all erosion and sediment control measures. All inspections and maintenance shall be performed in accordance with the inspection and maintenance schedule provided on the accompanying plans. Sediment removed from erosion and sediment control measures will be exported from the site, stockpiled for later use, or used immediately for general non-structural fill.

It is the responsibility of the general contractor to assure the adequacy of site pollutant discharge controls. Actual physical site conditions or contractor practices could make it necessary to install more structural controls than are shown on the accompanying plans. (For example, localized concentrations of runoff could make it necessary to install additional sediment barriers, sediment traps, etc.) Assessing the need for additional controls and implementing them or adjusting existing controls will be a continuing aspect of this SWPPP until the site achieves final stabilization.

C. Temporary Suspension of Construction Activities

For construction sites where soil disturbance activities have been temporarily suspended (e.g. Winter shutdown) and temporary stabilization measures have been applied to all disturbed areas, the frequency of Qualified Inspector/Qualified Professional inspections can be reduced to once every 30 calendar days. Prior to reducing the frequency of inspections, the Owner/Operator shall notify the NYSDEC Region 8 stormwater contact person and the Town of Alabama in writing.

D. Partial Project Completion

For construction sites where soil disturbance activities have been shut down with partial project completion, all areas disturbed as of the project shutdown date have achieved final stabilization, and all post-construction stormwater management practices required for the completed portion

of the project have been constructed in conformance with the SWPPP and are operational, the inspections by the Qualified Inspector/Qualified Professional can stop. Prior to the shutdown, the Owner/Operator shall notify the NYSDEC Region 8 stormwater contact person and the Town of Alabama in writing.

If soil disturbance activities have not resumed within two years from the date of shutdown, a Notice of Termination (NOT) shall be properly completed and submitted to the NYSDEC.

E. Postconstruction Inspections And Maintenance

Inspections and maintenance of final stabilization measures and post-construction stormwater management practices shall be performed in accordance with Appendix F, once all disturbed areas are stabilized and all stormwater management systems are in place and operable.

7. REPORTING REQUIREMENTS

A. Inspection And Maintenance Reports

Inspection/maintenance reports shall be prepared prior to and during construction in accordance with the schedule outlined herein and in the SPDES General Permit SPDES GENERAL PERMIT Part IV.C. The reports shall be prepared to identify and document the maintenance of the erosion and sediment control measures. A sample inspection form is provided in Appendix E.

Specifically, each inspection shall record the following information:

1. Date and time of inspection.
2. Name and title of person(s) performing inspection.
3. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection.
4. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow.
5. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface water body.
6. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance.
7. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced.
8. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection.
9. Indication of the current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards.
10. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s).
11. Identification and status of all corrective actions that were required by previous inspection.
12. Color photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The Qualified Inspector/Qualified Professional shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The Qualified Inspector/Qualified Professional shall also take digital photographs, with

date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The Qualified Inspector/Qualified Professional shall attach the paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.

All inspection reports shall be signed by the Qualified Inspector/Qualified Professional. Pursuant to Part II.C.2 of SPDES GENERAL PERMIT, the inspection reports shall be maintained on site with the SWPPP.

B. Site Log Book

The Owner/Operator shall retain a copy of the SWPPP required by the SPDES General Permit at the construction site from the date of initiation of construction activities to the date of final stabilization.

During construction, the Owner's/Operator's Engineer shall maintain a record of all SWPPP inspection reports at the site in the Site Log Book. The Site Log Book shall be maintained on-site and made available to the permitting authority, if necessary.

C. Postconstruction Records And Archiving

Following construction, the Owner/Operator shall retain copies of the SWPPP, the complete construction Site Log Book, and records of all data used to complete the NOI to be covered by this permit, for a period of at least five years from the date that the site is finally stabilized. This period may be extended by the NYSDEC, at its sole discretion, at any time upon written notification.

Records shall be maintained of all post construction inspections and maintenance work performed in accordance with the requirements outlined in Appendix G.

APPENDIX A
NYSDEC SPDES
GENERAL PERMIT GP-0-20-001



Department of
Environmental
Conservation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT
FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP- 0-20-001

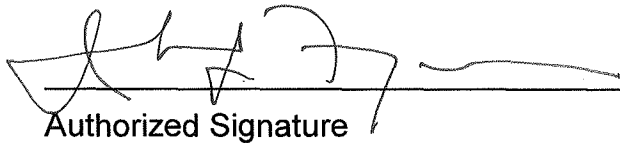
Issued Pursuant to Article 17, Titles 7, 8 and Article 70
of the Environmental Conservation Law

Effective Date: January 29, 2020

Expiration Date: January 28, 2025

John J. Ferguson

Chief Permit Administrator



Authorized Signature

1-23-20
Date

Address: NYS DEC
Division of Environmental Permits
625 Broadway, 4th Floor
Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act (“CWA”), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System (“NPDES”)* permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An *owner or operator* of a *construction activity* that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of “*construction activity*”, as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a *point source* and therefore, pursuant to ECL section 17-0505 and 17-0701, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

***Note: The italicized words/phrases within this permit are defined in Appendix A.**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM
CONSTRUCTION ACTIVITIES**

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Part 1. PERMIT COVERAGE AND LIMITATIONS

A. Permit Application

This permit authorizes stormwater *discharges* to *surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

1. *Construction activities* involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
2. *Construction activities* involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State*.
3. *Construction activities* located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

B. Effluent Limitations Applicable to Discharges from Construction Activities

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

1. Erosion and Sediment Control Requirements - The *owner or operator* must select, design, install, implement and maintain control measures to *minimize* the *discharge of pollutants* and prevent a violation of the *water quality standards*. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must include in the *Stormwater Pollution Prevention Plan* (“SWPPP”) the reason(s) for the

deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

- a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:
- (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharges*;
 - (ii) Control stormwater *discharges*, including both peak flowrates and total stormwater volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points;
 - (iii) *Minimize* the amount of soil exposed during *construction activity*;
 - (iv) *Minimize* the disturbance of *steep slopes*;
 - (v) *Minimize* sediment *discharges* from the site;
 - (vi) Provide and maintain *natural buffers* around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharges*, unless *infeasible*;
 - (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;
 - (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
 - (ix) *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.
- b. **Soil Stabilization.** In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments

listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

- c. **Dewatering.** *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.

- d. **Pollution Prevention Measures.** Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:
 - (i) *Minimize* the *discharge* of *pollutants* from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;

 - (ii) *Minimize* the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use) ; and

 - (iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.

- e. **Prohibited *Discharges*.** The following *discharges* are prohibited:
 - (i) Wastewater from washout of concrete;

 - (ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

- (iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;
 - (iv) Soaps or solvents used in vehicle and equipment washing; and
 - (v) Toxic or hazardous substances from a spill or other release.
- f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-construction Stormwater Management Practice Requirements

1. The *owner or operator of a construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual (“Design Manual”), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices (“SMPs”) are not designed in conformance with the *performance criteria* in the Design Manual, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
2. The *owner or operator of a construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

a. Sizing Criteria for New Development

- (i) Runoff Reduction Volume (“RRv”): Reduce the total Water Quality Volume (“WQv”) by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.
- (ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP.

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual.

The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (“Cpv”): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
 - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
 - (2) The site discharges directly to tidal waters, or fifth order or larger streams.

- (iv) *Overbank* Flood Control Criteria (“Qp”): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.

- (v) Extreme Flood Control Criteria (“Qf”): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.

b. Sizing Criteria for New Development in Enhanced Phosphorus Removal Watershed

- (i) Runoff Reduction Volume (RRv): Reduce the total Water Quality Volume (WQv) by application of RR techniques and standard SMPs with RRv capacity. The total WQv is the runoff volume from the 1-year, 24 hour design storm over the post-developed watershed and shall be

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

- (ii) Minimum RRv and Treatment of Remaining Total WQv: *Construction activities* that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to *site limitations* shall direct runoff from all newly constructed *impervious areas* to a RR technique or standard SMP with RRv capacity unless *infeasible*. The specific *site limitations* that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each *impervious area* that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered *infeasible*.

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
 - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
 - (2) The site *discharges* directly to tidal waters, or fifth order or larger streams.
- (iv) *Overbank* Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak *discharge* rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.

c. Sizing Criteria for Redevelopment Activity

- (i) Water Quality Volume (WQv): The WQv treatment objective for *redevelopment activity* shall be addressed by one of the following options. *Redevelopment activities* located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other *redevelopment activities* shall calculate the WQv in accordance with Section 4.2 of the Design Manual.
- (1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or
 - (2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity., or
 - (3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or
 - (4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 – 4 above.

- (ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iii) *Overbank* Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site

d. Sizing Criteria for Combination of Redevelopment Activity and New Development

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

D. Maintaining Water Quality

The Department expects that compliance with the conditions of this permit will control *discharges* necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;
2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharges* authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharges* authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharges* will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

E. Eligibility Under This General Permit

1. This permit may authorize all *discharges* of stormwater from *construction activity to surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.
2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharges*; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from *construction activities*.
3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: “Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned”; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated *discharges* from *construction site* de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.
4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

F. Activities Which Are Ineligible for Coverage Under This General Permit

All of the following are **not** authorized by this permit:

1. *Discharges after construction activities* have been completed and the site has undergone *final stabilization*;
2. *Discharges* that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;
3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;
4. *Construction activities or discharges from construction activities* that may adversely affect an *endangered or threatened species* unless the *owner or*

operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;
6. *Construction activities* for residential, commercial and institutional projects:
 - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
 - b. Which are undertaken on land with no existing *impervious cover*; and
 - c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture (“USDA”) Soil Survey as Soil Slope Phase “D”, (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase “E” or “F” (regardless of the map unit name), or a combination of the three designations.
7. *Construction activities* for linear transportation projects and linear utility projects:
 - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
 - b. Which are undertaken on land with no existing *impervious cover*; and
 - c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase “D” (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase “E” or “F” (regardless of the map unit name), or a combination of the three designations.

8. *Construction activities* that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:
- a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.
 - 1-5 acres of disturbance - 20 feet
 - 5-20 acres of disturbance - 50 feet
 - 20+ acres of disturbance - 100 feet, or
 - b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
 - (i) the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
 - (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
 - (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
 - (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or
 - c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

- (i) No Affect
- (ii) No Adverse Affect
- (iii) Executed Memorandum of Agreement, or

d. Documentation that:

- (i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.
9. *Discharges from construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

Part II. PERMIT COVERAGE

A. How to Obtain Coverage

1. An *owner or operator* of a *construction activity* that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.
2. An *owner or operator* of a *construction activity* that is subject to the requirements of a *regulated, traditional land use control MS4* must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department. The *owner or operator* shall have the “MS4 SWPPP Acceptance” form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.
3. The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of Owner or Operator) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4* . This exemption does not apply to *construction activities* subject to the New York City Administrative Code.

B. Notice of Intent (NOI) Submittal

1. Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (<http://www.dec.ny.gov/>). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:

**NOTICE OF INTENT
NYS DEC, Bureau of Water Permits
625 Broadway, 4th Floor
Albany, New York 12233-3505**

2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the *owner or operator* must submit the NOI electronically using the *Department's* online NOI.
3. The *owner or operator* shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.
4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

C. Permit Authorization

1. An *owner or operator* shall not *commence construction activity* until their authorization to *discharge* under this permit goes into effect.
2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied all of the following criteria:
 - a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (<http://www.dec.ny.gov/>) for more information,
 - b. where required, all necessary Department permits subject to the *Uniform Procedures Act ("UPA")* (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). *Owners or operators of construction activities* that are required to obtain *UPA* permits

must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

- c. the final SWPPP has been prepared, and
 - d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.
3. An *owner or operator* that has satisfied the requirements of Part II.C.2 above will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:
- a. For *construction activities* that are not subject to the requirements of a *regulated, traditional land use control MS4*:
 - (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or
 - (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has not been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;
 - (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.

- b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:
 - (i) Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed “MS4 SWPPP Acceptance” form, or
 - (ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed “MS4 SWPPP Acceptance” form.
4. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.C. of this permit.

D. General Requirements For Owners or Operators With Permit Coverage

1. The *owner or operator* shall ensure that the provisions of the SWPPP are implemented from the *commencement of construction activity* until all areas of disturbance have achieved *final stabilization* and the Notice of Termination (“NOT”) has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.
2. The *owner or operator* shall maintain a copy of the General Permit (GP-0-20-001), NOI, *NOI Acknowledgment Letter*, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor’s or subcontractor’s certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the *construction site* until all disturbed areas have achieved *final stabilization* and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.
3. The *owner or operator of a construction activity* shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land*

- use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity). At a minimum, the owner or operator must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:*
- a. The *owner or operator* shall have a *qualified inspector* conduct **at least two** (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
 - b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.
 - c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
 - d. The *owner or operator* shall install any additional site-specific practices needed to protect water quality.
 - e. The *owner or operator* shall include the requirements above in their SWPPP.
4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..
 5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.
 6. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*, the *owner or operator* shall notify the

regulated, traditional land use control MS4 in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the *owner or operator* shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice.

E. Permit Coverage for Discharges Authorized Under GP-0-15-002

1. Upon renewal of SPDES General Permit for Stormwater Discharges from *Construction Activity* (Permit No. GP-0-15-002), an *owner or operator* of a *construction activity* with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to *discharge* in accordance with GP- 0-20-001, unless otherwise notified by the Department.

An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.

F. Change of Owner or Operator

1. When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original *owner or operator* must notify the new *owner or operator*, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For *construction activities* subject to the requirements of a *regulated, traditional land use control MS4*, the original *owner or operator* must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.
2. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.B.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.
3. Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or*

operator was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new *owner or operator*.

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. General SWPPP Requirements

1. A SWPPP shall be prepared and implemented by the *owner or operator* of each *construction activity* covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the *commencement of construction activity*. A copy of the completed, final NOI shall be included in the SWPPP.
2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.
3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.
4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP, including construction drawings:
 - a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;

- b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*;
 - c. to address issues or deficiencies identified during an inspection by the *qualified inspector*, the Department or other regulatory authority; and
 - d. to document the final construction conditions.
5. The Department may notify the *owner or operator* at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.
6. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor*. The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with

the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharges* from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

B. Required SWPPP Contents

1. Erosion and sediment control component - All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:
 - a. Background information about the scope of the project, including the location, type and size of project

- b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours ; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge(s)*;
- c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);
- d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;
- e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;
- f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;
- g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;
- h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;
- i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

- j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;
 - k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and
 - l. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
2. Post-construction stormwater management practice component – The *owner or operator* of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable *sizing criteria* in Part I.C.2.a., c. or d. of this permit and the *performance criteria* in the technical standard, New York State Stormwater Management Design Manual dated January 2015

Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

The post-construction stormwater management practice component of the SWPPP shall include the following:

- a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;
- c. A Stormwater Modeling and Analysis Report that includes:
 - (i) Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;
 - (ii) Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;
 - (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and post-development runoff rates and volumes for the different storm events;
 - (iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;
 - (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and
 - (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;
- d. Soil testing results and locations (test pits, borings);
- e. Infiltration test results, when required; and
- f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria*, Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

C. Required SWPPP Components by Project Type

Unless otherwise notified by the Department, *owners or operators of construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators of the construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS

A. General Construction Site Inspection and Maintenance Requirements

1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.
2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York or protect the public health and safety and/or the environment.

B. Contractor Maintenance Inspection Requirements

1. The *owner or operator* of each *construction activity* identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.
3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. Qualified Inspector Inspection Requirements

The *owner or operator* shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
 - Certified Professional in Erosion and Sediment Control (CPESC),
 - New York State Erosion and Sediment Control Certificate Program holder
 - Registered Landscape Architect, or
 - someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].
1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, with the exception of:
 - a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located

in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;

- b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E;
 - c. construction on agricultural property that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres; and
 - d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:
- a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.
 - b. For construction sites where soil disturbance activities are on-going and the *owner or operator* has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
 - c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.

- d. For construction sites where soil disturbance activities have been shut down with partial project completion, the *qualified inspector* can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the *owner or operator* shall have the *qualified inspector* perform a final inspection and certify that all disturbed areas have achieved *final stabilization*, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the “*Final Stabilization*” and “*Post-Construction Stormwater Management Practice*” certification statements on the NOT. The *owner or operator* shall then submit the completed NOT form to the address in Part II.B.1 of this permit.
 - e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization*, all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site*, and all points of *discharge* from the *construction site*.
 4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

- a. Date and time of inspection;
- b. Name and title of person(s) performing inspection;
- c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;
- d. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This shall include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
- e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This shall include identification of any *discharges* of sediment to the surface waterbody;
- f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;
- g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
- h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;
- i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
- j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);
- k. Identification and status of all corrective actions that were required by previous inspection; and

- I. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.
5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.
6. All inspection reports shall be signed by the *qualified inspector*. Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

Part V. TERMINATION OF PERMIT COVERAGE

A. Termination of Permit Coverage

1. An *owner or operator* that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.
2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:
 - a. Total project completion - All *construction activity* identified in the SWPPP has been completed; and all areas of disturbance have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

- b. Planned shutdown with partial project completion - All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;
 - c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.F. of this permit.
 - d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.
3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the “*Final Stabilization*” and “Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.
4. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4* and meet subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *regulated, traditional land use control MS4* sign the “MS4 Acceptance” statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The *regulated, traditional land use control MS4* official, by signing this statement, has determined that it is acceptable for the *owner or operator* to submit the NOT in accordance with the requirements of this Part. The *regulated, traditional land use control MS4* can make this determination by performing a final site inspection themselves or by accepting the *qualified inspector’s* final site inspection certification(s) required in Part V.A.3. of this permit.
5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:
 - a. the post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

- b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),
- c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,
- d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

Part VI. REPORTING AND RETENTION RECORDS

A. Record Retention

The *owner or operator* shall retain a copy of the NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

Part VII. STANDARD PERMIT CONDITIONS

A. Duty to Comply

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water

Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

C. Enforcement

Failure of the *owner or operator*, its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

E. Duty to Mitigate

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Duty to Provide Information

The *owner or operator* shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the *owner or operator* must make available for review and copying by any person within five (5) business days of the *owner or operator* receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit, or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

H. Signatory Requirements

1. All NOIs and NOTs shall be signed as follows:
 - a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
 - (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or
 - c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - (i) the chief executive officer of the agency, or
 - (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,

- c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.
3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.
4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4*, or by a duly authorized representative of that person.

It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

I. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

J. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

K. Requirement to Obtain Coverage Under an Alternative Permit

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge(s)*, the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

L. Proper Operation and Maintenance

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

M. Inspection and Entry

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.
4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

O. Definitions

Definitions of key terms are included in Appendix A of this permit.

P. Re-Opener Clause

1. If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.
2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

Q. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

APPENDIX A – Acronyms and Definitions

Acronyms

APO – Agency Preservation Officer

BMP – Best Management Practice

CPESC – Certified Professional in Erosion and Sediment Control

Cpv – Channel Protection Volume

CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)

DOW – Division of Water

EAF – Environmental Assessment Form

ECL - Environmental Conservation Law

EPA – U. S. Environmental Protection Agency

HSG – Hydrologic Soil Group

MS4 – Municipal Separate Storm Sewer System

NOI – Notice of Intent

NOT – Notice of Termination

NPDES – National Pollutant Discharge Elimination System

OPRHP – Office of Parks, Recreation and Historic Places

Qf – Extreme Flood

Qp – Overbank Flood

RRv – Runoff Reduction Volume

RWE – Regional Water Engineer

SEQR – State Environmental Quality Review

SEQRA - State Environmental Quality Review Act

SHPA – State Historic Preservation Act

SPDES – State Pollutant Discharge Elimination System

SWPPP – Stormwater Pollution Prevention Plan

TMDL – Total Maximum Daily Load

UPA – Uniform Procedures Act

USDA – United States Department of Agriculture

WQv – Water Quality Volume

Definitions

All definitions in this section are solely for the purposes of this permit.

Agricultural Building – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property – means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the “Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State” prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

Alter Hydrology from Pre to Post-Development Conditions - means the post-development peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer - means a sewer that is designed to collect and convey both “sewage” and “stormwater”.

Commence (Commencement of) Construction Activities - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for “*Construction Activity(ies)*” also.

Construction Activity(ies) - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Construction Site – means the land area where *construction activity(ies)* will occur. See definition for “*Commence (Commencement of) Construction Activities*” and “*Larger Common Plan of Development or Sale*” also.

Dewatering – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Direct Discharge (to a specific surface waterbody) - means that runoff flows from a *construction site* by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system

and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

Discharge(s) - means any addition of any pollutant to waters of the State through an outlet or *point source*.

Embankment – means an earthen or rock slope that supports a road/highway.

Endangered or Threatened Species – see 6 NYCRR Part 182 of the Department’s rules and regulations for definition of terms and requirements.

Environmental Conservation Law (ECL) - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

Equivalent (Equivalence) – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

General SPDES permit - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

Groundwater(s) - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

Historic Property – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

Larger Common Plan of Development or Sale - means a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term “plan” in “larger common plan of development or sale” is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not concurrently being disturbed.

Minimize – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State;
- (ii) Designed or used for collecting or conveying stormwater;
- (iii) Which is not a *combined sewer*; and
- (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

Natural Buffer –means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

NOI Acknowledgment Letter - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

Nonpoint Source - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank –means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

Performance Criteria – means the design criteria listed under the “Required Elements” sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

Point Source - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be discharged.

Pollutant - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq .

Qualified Inspector - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Regulated, Traditional Land Use Control MS4 - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Routine Maintenance Activity - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities,
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

Site limitations – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank Flood* (Qp), and Extreme Flood (Qf).

State Pollutant Discharge Elimination System (SPDES) - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

Steep Slope – means land area designated on the current United States Department of Agriculture (“USDA”) Soil Survey as Soil Slope Phase “D”, (provided the map unit name is inclusive of slopes greater than 25%) , or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Streambank – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls; for many projects, includes post-construction stormwater management controls); and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

Surface Waters of the State - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Loads (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint sources*. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for *point source* discharges, load allocations (LAs) for *nonpoint sources*, and a margin of safety (MOS).

Trained Contractor - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

Uniform Procedures Act (UPA) Permit - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

Water Quality Standard - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

APPENDIX B – Required SWPPP Components by Project Type

Table 1
Construction Activities that Require the Preparation of a SWPPP That Only Includes Erosion and Sediment Controls

<p>The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:</p> <ul style="list-style-type: none">• Single family home <u>not</u> located in one of the watersheds listed in Appendix C or <u>not directly discharging</u> to one of the 303(d) segments listed in Appendix E• Single family residential subdivisions with 25% or less impervious cover at total site build-out and <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E• Construction of a barn or other <i>agricultural building</i>, silo, stock yard or pen.
<p>The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:</p> <p>All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.</p>
<p>The following construction activities that involve soil disturbances of one (1) or more acres of land:</p> <ul style="list-style-type: none">• Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains• Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects• Pond construction• Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover• Cross-country ski trails and walking/hiking trails• Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;• Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.• Slope stabilization projects• Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics

Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that *alter hydrology from pre to post development* conditions,
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious area* and do not *alter hydrology from pre to post development* conditions
- Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

Table 2
CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES
POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's, water treatment plants, and water storage tanks
- Office complexes
- Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

The following construction activities that involve soil disturbances of one (1) or more acres of land:

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover*, and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre to post development* conditions, and are not listed in Table 1

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual (“Design Manual”).

- Entire New York City Watershed located east of the Hudson River - Figure 1
- Onondaga Lake Watershed - Figure 2
- Greenwood Lake Watershed -Figure 3
- Oscawana Lake Watershed – Figure 4
- Kinderhook Lake Watershed – Figure 5

Figure 1 - New York City Watershed East of the Hudson

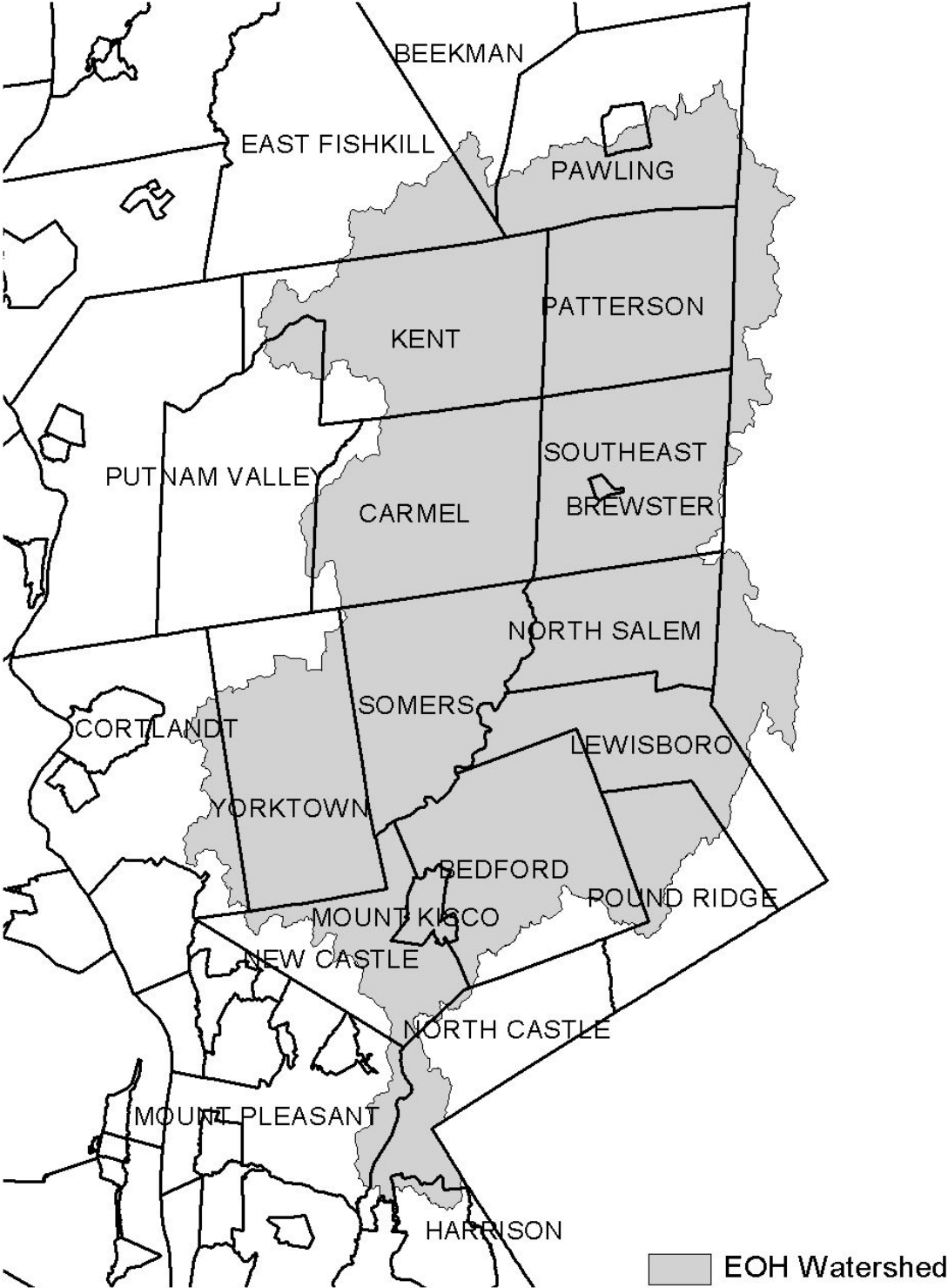


Figure 2 - Onondaga Lake Watershed



Figure 3 - Greenwood Lake Watershed



Figure 4 - Oscawana Lake Watershed

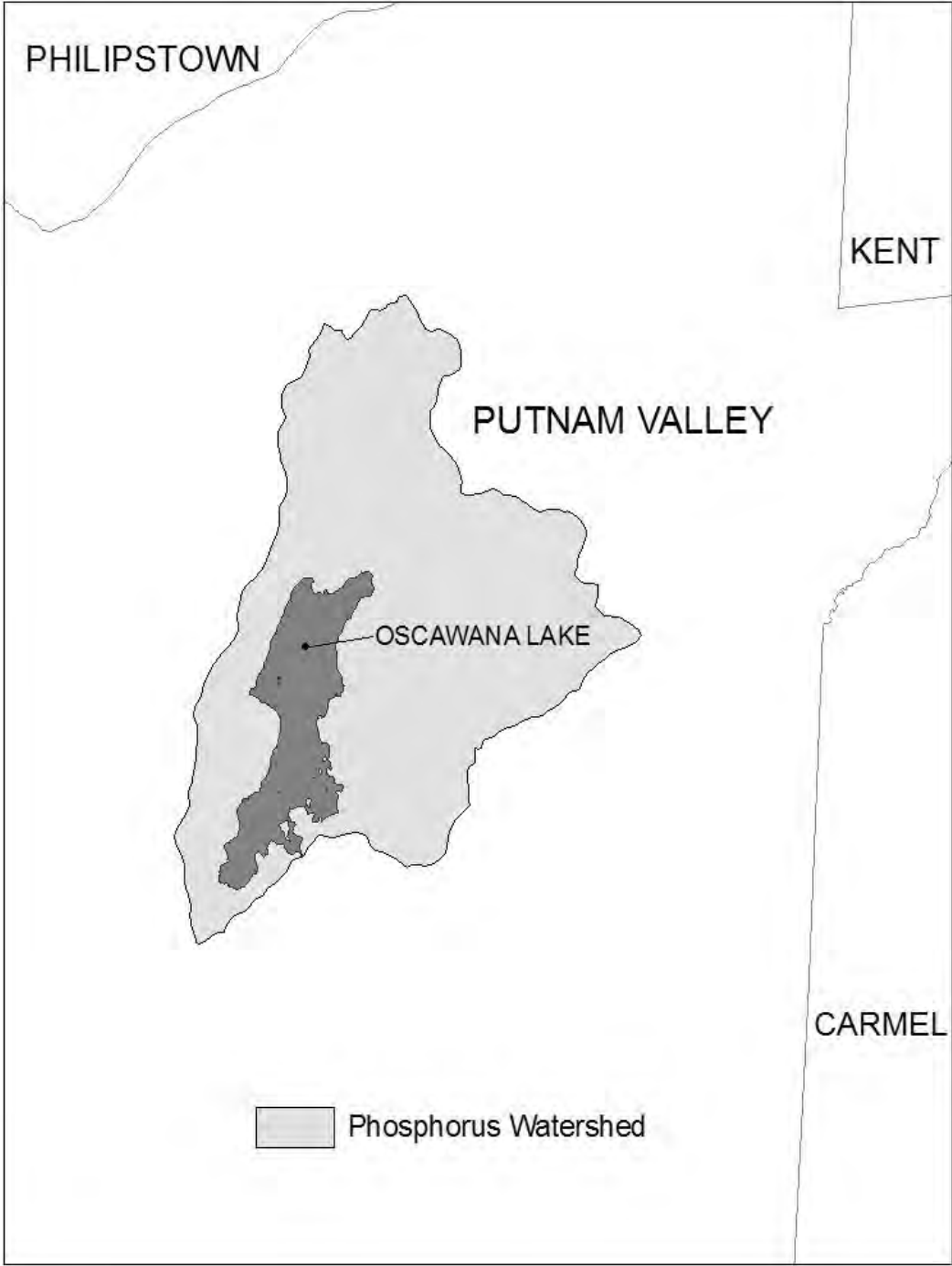
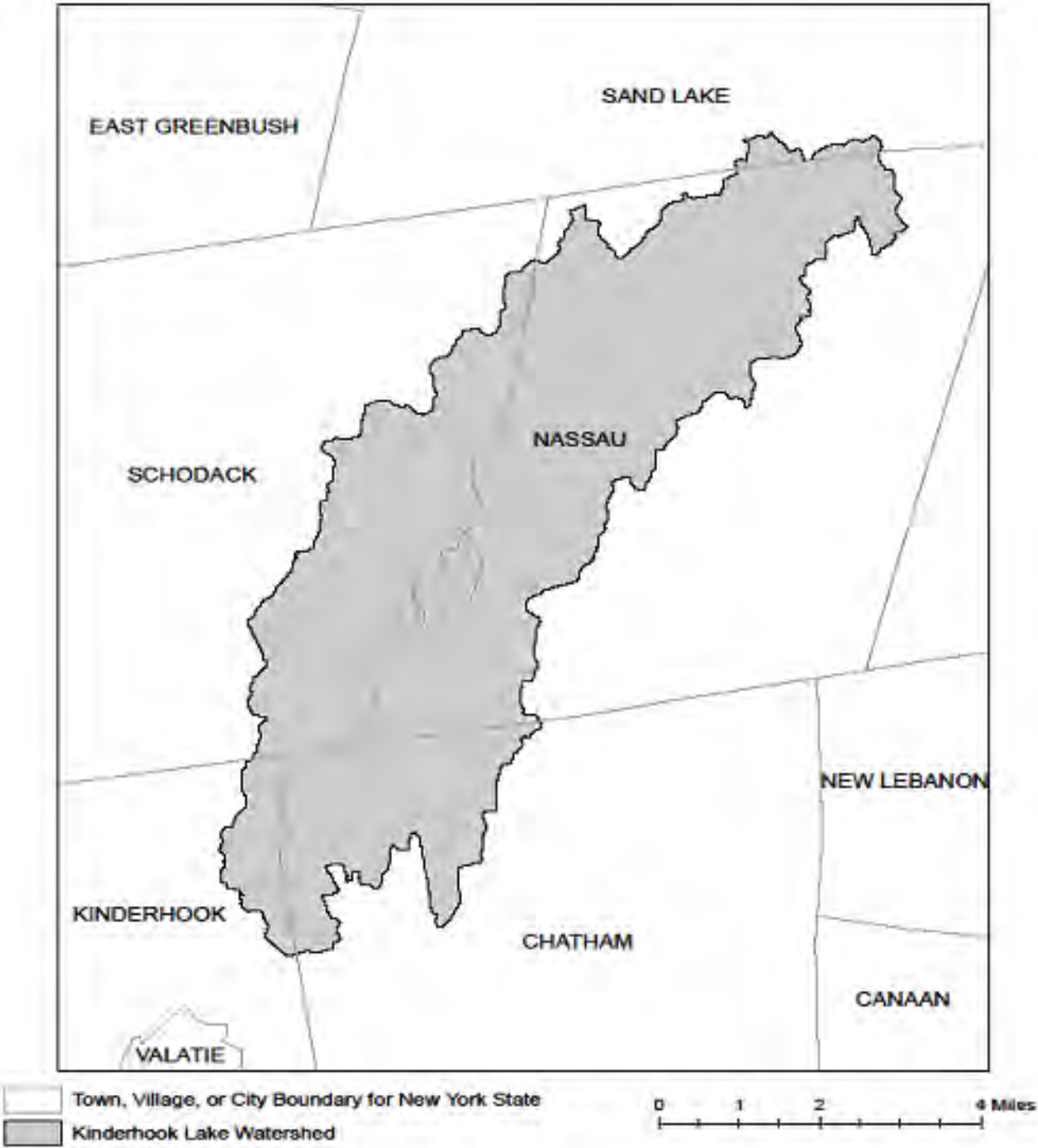


Figure 5 - Kinderhook Lake Watershed



APPENDIX D – Watersheds with Lower Disturbance Threshold

Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C

APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). The list was developed using "The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy" dated November 2016. *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linlyco/Club Pond	Nutrients
Cayuga	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willsboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Conesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Silt/Sediment
Nassau	Tribs to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholtz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Tribs to Lake Lonely	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

303(d) Segments Impaired by Construction Related Pollutant(s)

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Tribs to L.George, Village of L George	Silt/Sediment
Washington	Cossayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Tribs to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolndale	Nutrients
Westchester	Lake Meahagh	Nutrients
Westchester	Lake Mohegan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

APPENDIX F – List of NYS DEC Regional Offices

<u>Region</u>	<u>COVERING THE FOLLOWING COUNTIES:</u>	<u>DIVISION OF ENVIRONMENTAL PERMITS (DEP) PERMIT ADMINISTRATORS</u>	<u>DIVISION OF WATER (DOW) WATER (SPDES) PROGRAM</u>
1	NASSAU AND SUFFOLK	50 CIRCLE ROAD STONY BROOK, NY 11790 TEL. (631) 444-0365	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 TEL. (631) 444-0405
2	BRONX, KINGS, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4997	1 HUNTERS POINT PLAZA, 47-40 21ST ST. LONG ISLAND CITY, NY 11101-5407 TEL. (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 SOUTH PUTT CORNERS ROAD NEW PALTZ, NY 12561-1696 TEL. (845) 256-3059	100 HILLSIDE AVENUE, SUITE 1W WHITE PLAINS, NY 10603 TEL. (914) 428 - 2505
4	ALBANY, COLUMBIA, DELAWARE, GREENE, MONTGOMERY, OTSEGO, RENSSELAER, SCHENECTADY AND SCHOHARIE	1150 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2069	1130 NORTH WESTCOTT ROAD SCHENECTADY, NY 12306-2014 TEL. (518) 357-2045
5	CLINTON, ESSEX, FRANKLIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	1115 STATE ROUTE 86, Po Box 296 RAY BROOK, NY 12977-0296 TEL. (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7070

APPENDIX B
NYSDEC NOTICE OF INTENT (NOI)
AND NYSDEC NOTICE OF
TERMINATION (NOT)

**New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505**

(NOTE: Submit completed form to address above)

**NOTICE OF TERMINATION for Storm Water Discharges Authorized
under the SPDES General Permit for Construction Activity**

Please indicate your permit identification number: NYR _____

I. Owner or Operator Information

1. Owner/Operator Name:

2. Street Address:

3. City/State/Zip:

4. Contact Person:

4a. Telephone:

4b. Contact Person E-Mail:

II. Project Site Information

5. Project/Site Name:

6. Street Address:

7. City/Zip:

8. County:

III. Reason for Termination

9a. All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. *Date final stabilization completed (month/year): _____

9b. Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR _____
(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? yes no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? yes no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the
SPDES General Permit for Construction Activity - continued**

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? yes no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

- Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.
- Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).
- For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.
- For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____
(acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? yes
 no
(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:
(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name:

Title/Position:

Signature:

Date:

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the
SPDES General Permit for Construction Activity - continued**

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

**APPENDIX C
OWNER, DEVELOPER AND
SWPPP PREPARER
CERTIFICATION FORMS**



Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-20-001)

Project/Site Name: 7174 Alleghany Road Retail Building

eNOI Submission Number: _____

eNOI Submitted by: Owner/Operator SWPPP Preparer Other

Certification Statement - Owner/Operator

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Owner/Operator First Name

M.I. Last Name

Signature

Date



SWPPP Preparer Certification Form

*SPDES General Permit for Stormwater
Discharges From Construction Activity
(GP-0-20-001)*

Project Site Information

Project/Site Name

7174 Alleghany Road Retail Building

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

The Broadway Group

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

David

First name

W.

MI

Young

Last Name

Signature

Date

APPENDIX D

**CONTRACTOR AND
SUBCONTRACTOR
CERTIFICATION FORMS**

Contractor / Subcontractor SPDES Permit Certification

Contract No.: _____ PIN: _____

Description: 7174 Alleghany Road Retail Building

Town: Alabama

County: Genesee 

Check Applicable Box: Prime Contractor Subcontractor

Name of Contractor/
Subcontractor: _____

Address: _____

City: Lakewood State: _____ ZIP: _____

Phone: _____ Fax: _____

Core Pay Item Groups for which the Contractor/Subcontractor will be responsible (e.g. 203, 207, 209, etc.): **All Site Work Outside of Building** . _____

Mandatory Certification: The SPDES General Permit for Stormwater Discharges from Construction Activities requires the Prime Contractor and subcontractors to certify they understand the Stormwater Pollution Prevention Plan (SWPPP), the General Permit conditions, and their responsibilities for compliance. The certification must be signed prior to performing any contract work. The certification shall be signed by an Owner, Principal, President, Secretary or Treasurer of the firm in accordance with the signature requirements of 102-05 *Proposal Submission* of the Standard Specifications.

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations."

Signature: _____ Date: _____

Name: _____ Title: _____

Required Training: Effective April 30, 2010, the SPDES General Permit also requires the Prime Contractor and all subcontractors **performing earthwork or soil-disturbing activities** to identify at least one trained individual **from each company** who will be responsible for implementing the SWPPP and who shall be on-site on a daily basis when the company is performing soil disturbance activities. These activities include clearing, grubbing, grading, filling, excavation, stockpiling, demolition, landscaping, and installation and maintenance of Erosion & Sediment Control practices. Training must consist of 4 hours of NYSDEC-endorsed Erosion & Sediment Control Training every 3 years. (Training is not required if the individual is a licensed Professional Engineer, registered licensed Landscape Architect, or CPESC.) Provide the information below for trained individuals who will be on-site and responsible for SWPPP implementation on this Contract (attach a separate sheet if needed for additional Trained Individuals):

Trained Individual Name/Title : _____

Name of Training Course: _____

Trainee Number: _____ Date of Training: _____

Trained Individual Name/Title : _____

Name of Training Course: _____

Trainee Number: _____ Date of Training: _____

APPENDIX E

SWPPP INSPECTION REPORT

(SAMPLE FORM)

ATTACHMENT 1

Construction Stormwater Compliance Inspection Report

Project Name and Location: 1658 Broadway Road Retail Building	Date:	Page 1 of 2
Municipality: Darien (T) County: Genesee	Permit # (if any): NYR	
	Entry Time:	Exit Time:
On-site Representative(s) and contact information:	Weather Conditions:	
Name and Address of SPDES Permittee/Title/Phone/Fax Numbers: Contacted: Yes <input type="checkbox"/> No <input type="checkbox"/>		

INSPECTION CHECKLIST

SPDES Authority

Yes No N/A

1. Is a copy of the NOI posted at the construction site for public viewing?
2. Is an up-to-date copy of the signed SWPPP retained at the construction site?
3. Is a copy of the SPDES General Permit retained at the construction site?

Law, rule or permit citation

SWPPP Content

Yes No N/A

4. Does the SWPPP describe and identify the erosion & sediment control measures to be employed?
5. Does the SWPPP provide a maintenance schedule for the erosion & sediment control measures?
6. Does the SWPPP describe and identify the post-construction SW control measures to be employed?
7. Does the SWPPP identify the contractor(s) and subcontractor(s) responsible for each measure?
8. Does the SWPPP include all the necessary 'CONTRACTOR CERTIFICATION' statements?
9. Is the SWPPP signed/certified by the permittee?

Law, rule or permit citation

Recordkeeping

Yes No N/A

10. Are inspections performed as required by the permit (every 7 days and after 1/2" rain event)?
11. Are the site inspections performed by a qualified professional?
12. Are all required reports properly signed/certified?
13. Does the SWPPP include copies of the monthly/quarterly written summaries of compliance status?

Law, rule or permit citation

Visual Observations

Yes No N/A

14. Are all erosion and sediment control measures installed/constructed?
15. Are all erosion and sediment control measures maintained properly?
16. Have all disturbances of 5 acres or more been approved prior to the disturbance?
17. Are stabilization measures initiated in inactive areas?
18. Are permanent stormwater control measures implemented?
19. Was there a discharge into the receiving water on the day of inspection?
20. Are receiving waters free of there evidence of turbidity, sedimentation, or oil ? (If no , complete Page 2)

Law, rule or permit citation

Overall Inspection Rating: <input type="checkbox"/> Satisfactory <input type="checkbox"/> Marginal <input type="checkbox"/> Unsatisfactory	
Name/Agency of Lead Inspector:	Signature of Lead Inspector:
Names/Agencies of Other Inspectors:	

Water Quality Observations

Describe the discharge(s) [source(s), impact on receiving water(s), etc.] _____

Describe the quality of the receiving water(s) both upstream and downstream of the discharge _____

Describe any other water quality standards or permit violations _____

Additional Comments: _____

Photographs attached

APPENDIX F

CONSTRUCTION SITE

LOG BOOK

APPENDIX F
CONSTRUCTION SITE INSPECTION
AND MAINTENANCE LOG BOOK

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM FOR CONSTRUCTION
ACTIVITIES

SAMPLE CONSTRUCTION SITE LOG BOOK

Table of Contents

- I. Pre-Construction Meeting Documents
 - a. Preamble to Site Assessment and Inspections
 - b. Pre-Construction Site Assessment Checklist

- II. Construction Duration Inspections
 - a. Directions
 - b. Modification to the SWPPP

I. PRE-CONSTRUCTION MEETING DOCUMENTS

Project Name 1658 Broadway Road Retail Building
Permit No. _____ **Date of Authorization** _____
Name of Operator The Broadway Group
Prime Contractor _____

a. Preamble to Site Assessment and Inspections

The Following Information To Be Read By All Person’s Involved in The Construction of Stormwater Related Activities:

The Operator agrees to have a qualified inspector¹ conduct an assessment of the site prior to the commencement of construction² and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Prior to the commencement of construction, the Operator shall certify in this site logbook that the SWPPP has been prepared in accordance with the State’s standards and meets all Federal, State and local erosion and sediment control requirements. A preconstruction meeting should be held to review all of the SWPPP requirements with construction personnel.

When construction starts, site inspections shall be conducted by the qualified inspector at least every 7 calendar days. The Operator shall maintain a record of all inspection reports in this site logbook. The site logbook shall be maintained on site and be made available to the permitting authorities upon request.

Prior to filing the Notice of Termination or the end of permit term, the Operator shall have a qualified inspector perform a final site inspection. The qualified inspector shall certify that the site has undergone final stabilization³ using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. In addition, the Operator must identify and certify that all permanent structures described in the SWPPP have been constructed and provide the owner(s) with an operation and maintenance plan that ensures the structure(s) continuously functions as designed.

1 Refer to “Qualified Inspector” inspection requirements in the current SPDES General Permit for Stormwater Discharges from Construction Activity for complete list of inspection requirements.
2 “Commencement of construction” means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.
3 “Final stabilization” means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

b. Pre-construction Site Assessment Checklist

(NOTE: Provide comments below as necessary)

1. Notice of Intent, SWPPP, and Contractors Certification:

Yes No NA

- Has a Notice of Intent been filed with the NYS Department of Conservation?
- Is the SWPPP on-site? Where? _____
- Is the Plan current? What is the latest revision date? _____
- Is a copy of the NOI (with brief description) onsite? Where? _____
- Have all contractors involved with stormwater related activities signed a contractor's certification?

2. Resource Protection

Yes No NA

- Are construction limits clearly flagged or fenced?
- Important trees and associated rooting zones, on-site septic system absorption fields, existing vegetated areas suitable for filter strips, especially in perimeter areas, have been flagged for protection.
- Creek crossings installed prior to land-disturbing activity, including clearing and blasting.

3. Surface Water Protection

Yes No NA

- Clean stormwater runoff has been diverted from areas to be disturbed.
- Bodies of water located either on site or in the vicinity of the site have been identified and protected.
- Appropriate practices to protect on-site or downstream surface water are installed.
- Are clearing and grading operations divided into areas <5 acres?

4. Stabilized Construction Access

Yes No NA

- A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed.
- Other access areas (entrances, construction routes, equipment parking areas) are stabilized immediately as work takes place with gravel or other cover.
- Sediment tracked onto public streets is removed or cleaned on a regular basis.

5. Sediment Controls

Yes No NA

- Silt fence material and installation comply with the standard drawing and specifications.
- Silt fences are installed at appropriate spacing intervals
- Sediment/detention basin was installed as first land disturbing activity.
- Sediment traps and barriers are installed.

6. Pollution Prevention for Waste and Hazardous Materials

Yes No NA

- The Operator or designated representative has been assigned to implement the spill prevention avoidance and response plan.
- The plan is contained in the SWPPP on page _____
- Appropriate materials to control spills are onsite. Where? _____

II. CONSTRUCTION DURATION INSPECTIONS

a. Directions:

Inspection Forms will be filled out during the entire construction phase of the project.

Required Elements:

- 1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;
- 2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;
- 3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;
- 4) Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);
- 5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water; and
- 6) Immediately report to the Operator any deficiencies that are identified with the implementation of the SWPPP.

SITE PLAN/SKETCH

Inspector (print name)

Date of Inspection

Qualified Inspector (print name)

Qualified Inspector Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA

- Is there an increase in turbidity causing a substantial visible contrast to natural conditions at the outfalls?
- Is there residue from oil and floating substances, visible oil film, or globules or grease at the outfalls?
- All disturbance is within the limits of the approved plans.
- Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

- Is construction site litter, debris and spoils appropriately managed?
- Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- Is construction impacting the adjacent property?
- Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

- Maximum diameter pipes necessary to span creek without dredging are installed.
- Installed non-woven geotextile fabric beneath approaches.
- Is fill composed of aggregate (no earth or soil)?
- Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

3. Stabilized Construction Access

Yes No NA

- Stone is clean enough to effectively remove mud from vehicles.
- Installed per standards and specifications?
- Does all traffic use the stabilized entrance to enter and leave site?
- Is adequate drainage provided to prevent ponding at entrance?

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

- Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
- Clean water from upstream pool is being pumped to the downstream pool.
- Sediment laden water from work area is being discharged to a silt-trapping device.
- Constructed upstream berm with one-foot minimum freeboard.

Runoff Control Practices (continued)

2. Flow Spreader

Yes No NA

- Installed per plan.
- Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

- Installed per plan with minimum side slopes 2H:1V or flatter.
- Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- Sediment-laden runoff directed to sediment trapping structure

4. Stone Check Dam

Yes No NA

- Is channel stable? (flow is not eroding soil underneath or around the structure).
- Check is in good condition (rocks in place and no permanent pools behind the structure).
- Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

- Installed per plan.
- Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

- Stockpiles are stabilized with vegetation and/or mulch.
- Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

- Temporary seedings and mulch have been applied to idle areas.
- 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Silt Fence and Linear Barriers

Yes No NA

- Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
 - Joints constructed by wrapping the two ends together for continuous support.
 - Fabric buried 6 inches minimum.
 - Posts are stable, fabric is tight and without rips or frayed areas.
- Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

2. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated; Filter Sock or Manufactured practices)

Yes No NA

- Installed concrete blocks lengthwise so open ends face outward, not upward.
 - Placed wire screen between No. 3 crushed stone and concrete blocks.
 - Drainage area is 1acre or less.
 - Excavated area is 900 cubic feet.
 - Excavated side slopes should be 2:1.
 - 2" x 4" frame is constructed and structurally sound.
 - Posts 3-foot maximum spacing between posts.
 - Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
 - Posts are stable, fabric is tight and without rips or frayed areas.
 - Manufactured insert fabric is free of tears and punctures.
 - Filter Sock is not torn or flattened and fill material is contained within the mesh sock.
- Sediment accumulation ___% of design capacity.

3. Temporary Sediment Trap

Yes No NA

- Outlet structure is constructed per the approved plan or drawing.
 - Geotextile fabric has been placed beneath rock fill.
 - Sediment trap slopes and disturbed areas are stabilized.
- Sediment accumulation is ___% of design capacity.

4. Temporary Sediment Basin

Yes No NA

- Basin and outlet structure constructed per the approved plan.
 - Basin side slopes are stabilized with seed/mulch.
 - Drainage structure flushed and basin surface restored upon removal of sediment basin facility.
 - Sediment basin dewatering pool is dewatering at appropriate rate.
- Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design. All practices shall be maintained in accordance with their respective standards.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

APPENDIX G

POST-CONSTRUCTION INSPECTION AND MAINTENANCE



CONSTRUCTION INSPECTION FORM FOR MUNICIPALITIES

Town of Darien
Municipality

For compliance with SPDES General Permit **GP-0-10-001** and Local Code

Project Name and Location: 1658 Broadway Road Retail Building	Date:	
	Permit # (if any): NYR	
Municipality: Darien (T) County: Genesee	Entry Time:	Exit Time:
On-site Representative(s): Phone Number:	Weather Conditions:	
Qualified Inspector: Title:		
Name and Address of SPDES Permittee/Title/Phone/Fax Numbers: Contacted Yes <input type="checkbox"/> No <input type="checkbox"/>		
Purpose of Inspection: <input type="checkbox"/> Start of Construction <input type="checkbox"/> Erosion & Sediment Control Measures have been installed & stabilized <input type="checkbox"/> Follow-Up <input type="checkbox"/> Site clearing has been completed <input type="checkbox"/> Rough grading has been completed <input type="checkbox"/> Complaint <input type="checkbox"/> Final Grading <input type="checkbox"/> Close of Construction Season <input type="checkbox"/> Final Landscaping <input type="checkbox"/> Closeout Inspection		

Notice of Intent, SWPPP, and Contractor's Certification: Not on Site _____

Citation GP-0-10-001:

Yes No NA

- | | | | | |
|--------------------------|--------------------------|--------------------------|---|---------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Has a Notice of Intent been filed with the NYS Department of Environmental Conservation? | Section: II.A.1-2 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is a copy of the NOI and NOI Acknowledgement letter, current SPDES Permit, & inspection reports on site and accessible for viewing, | Section: II.C.2 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there a signed SWPPP on site? Where on site? _____ | Section: II.C.2 & VII.H.2 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is a copy of the MS4 SWPPP Acceptance Form available on site and accessible for viewing? | Section: II.C.2 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the SWPPP identify the contractor(s) and subcontractor(s) responsible for each measure? | Section: III.A.6 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the SWPPP identify at least one <i>trained individual</i> from each contractor(s) and subcontractor(s) companies? | Section: III.A.6 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the SWPPP include all the necessary contractor certification statements and signatures? | Section: III.A.6 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the NOI accurately record the number of acres being disturbed? | Section: II.B.5 |

Recordkeeping Not on Site _____

Yes No NA

- | | | | | |
|--------------------------|--------------------------|--------------------------|---|--------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are self-inspections performed as required by the permit (weekly, or 2x/week for > 5 acres)? | Section: II.C.3.a & IV.C.2.a-c |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are self-inspections signed by a qualified inspector (PE, LA, CPESC, or someone working under the direct supervision of a PE or LA provided that they have received four hours of Department endorsed training in proper erosion and sediment control)? | Section: IV.C.6 & Appendix A |

- | | | | | |
|--------------------------|--------------------------|--------------------------|---|---------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include date, time, name and title of person performing inspection, a description of weather, and a description of soil conditions? | Section: IV.C.4.a-c |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include a description of the condition of the runoff at all points of discharge (includes sediment, conveyance systems, and overland flow) from the construction site? | Section: IV.C.4.d |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include a description of the condition of all natural water bodies located within or immediately adjacent to the construction site which receive runoff from disturbed areas? | Section: IV.C.4.e |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports identify all erosion and sediment control practices that need repair or maintenance? | Section: IV.C.4.f |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports identify all erosion and sediment control practices that were not installed properly or are not functioning as designed and need to be re-installed or replaced? | Section: IV.C.4.g |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include a description and sketch of areas that are disturbed at the time of inspection and areas that have been stabilized (temporary or final) since the last inspection? | Section: IV.C.4.h |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include the current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards? | Section: IV.C.4.i |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include the corrective actions to correct deficiencies identified with the construction of the post-construction stormwater management practices? | Section: IV.C.4.j |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include the corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices? | Section: IV.C.4.j |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include color digital photographs, with date stamp, that clearly show the conditions of all practice that have been identified as needing corrective actions? | Section: IV.C.4.k |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Do the qualified inspector reports include color digital photographs, with date stamp, that clearly show the condition of all the practice(s) after the corrective action has been completed? | Section: IV.C.4.k |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are corrective actions being implemented for previously identified deficiencies from Qualified Inspector reports on post-construction stormwater management practices and erosion and sediment control practices? | Section: IV.C.5 |

Maintaining Water Quality

Yes No NA

- | | | | | |
|--------------------------|--------------------------|--------------------------|---|----------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there evidence that a discharge caused a substantial visible contrast to natural conditions? | Section: I.B.1 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there evidence of sedimentation in the natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas? | |

Area of Disturbance

Yes No NA

- | | | | | |
|--------------------------|--------------------------|--------------------------|--|-------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there greater than 5 acres of disturbance? | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | If yes, has written authorization been issued by the DEC or the MS4 and is it accessible on site for viewing? | Section: II.C.3 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does the SWPPP contain a phasing plan that defines the maximum disturbed area per phase and shows the required cuts and fills? | Section: II.C.3.c |

General Housekeeping

Yes No NA

- Are pollution prevention measures being used to control litter, construction chemicals and construction debris on the site? Section: II.C.1 & III.B.1.j
- Is dust adequately controlled on site? Section: II.C.1 & III.B.1
- Is there evidence of soil erosion at the construction site?
- Have all the erosion and sediment controls measures been installed/constructed as detailed in the SWPPP. Section: II.C.1 & III.B.1
- Are excavation dewatering devices installed according to the most current version of the New York State Standards and Specs? Section: II.C.1 & III.B.1

Runoff Controls

Yes No NA

- Is maintenance of control structures adequate?
- Are stormwater conveyance channels adequately stabilized with channel lining and/or outlet protection?
- Is sediment-laden runoff directed to sediment trapping devices as detailed in the SWPPP?
- Are temporary access waterway crossings installed according to the most current version of NYS Standards and Specs? Section: II.C.1, III.B.1, & IV.A.1

Stone Check Dam

Yes No NA

- Installed according to the most current version of the New York State Standards and Specs? Section: II.C.1, III.B.1, & IV.A.1
- Is channel stable (flow is not eroding soil underneath or around the structure)?
- Check dam is in good condition (rocks in place and lined with geotextile fabric).
- Has accumulated sediment been removed or planned to be removed?

Soil Stabilization

Yes No NA

- Are soil stabilization measures being implemented in accordance with the time frames (14 days, 7 days for > 5 acres) established in the SWPPP? Section: II.C.3.b & III.B.1.f
- Temporary seedings and mulch have been applied to idle areas (14 days, 7 days for >5 acres)?
- Are areas where final grading has been completed adequately stabilized (14 day rule, 7 day for >5 acres)?

Stabilized Construction Entrance

Yes No NA

- A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed according to the most current version of the New York State Standards and Specs? Section: II.C.1, III.B.1, & IV.A.1
- Sediment tracked onto public streets is removed or cleaned on a regular basis?
- Stone is clean enough to effectively remove mud from vehicles?
- Does all traffic use a stabilized entrance to enter and leave site?
- Is adequate drainage provided to prevent ponding at entrance?

Silt Fence

Section: II.C.1, III.B.1, & IV.A.1

Yes No NA

- Installed on Contour and NOT across conveyance channels?
- Installed at least 10 feet from toe of slope?
- Installed at appropriate spacing intervals?
- Joints constructed by wrapping the two ends together for continuous support & posts are stable?
- Fabric buried 6 inches minimum?
- Fabric is tight and without rips or frayed areas?
- Have any "bulges" developed in the silt fence that requires material to be removed?

Post-Construction Stormwater Management

Section: II.C.1, III.B.1, & IV.A.1

Yes No NA

- Have all stormwater management structures been installed/constructed according to the most current version of the New York State Stormwater Design Manual?
- Are sediment basins maintained (sediment removed when 50% capacity is reached)?

Inlet Protection

Section: II.C.1, III.B.1, & IV.A.1

Yes No NA

- Installed according to the most current version of the New York State Standards and Specs?
- Maintained and functioning properly?
- Is protection one of the following: Excavated drop inlet protection, fabric drop inlet protection, stone and block inlet protection, curb drop inlet protection?
- Has sediment been removed when 50% of storage volume has been achieved?
- Drainage area is one acre or less.

Stone and Block Drop Inlet Protection

Section: II.C.1, III.B.1, & IV.A.1

Yes No NA

- Have the bottom row of concrete blocks been placed 2" below inlet opening, with a few blocks oriented on their sides to allow flow through them to dewater the surrounding basin?
- Has a hardware cloth or 1/2 inch wire mesh been placed over block openings to support stone?
- Does the stone barrier have a minimum height of 1 foot and a maximum height of 2 feet?

Fabric Drop Inlet Protection

Section: II.C.1, III.B.1, & IV.A.1

Yes No NA

- Is there an installed 2-inch x 4-inch wood frame and wood posts, with maximum 3-foot spacing?
- Is filter fabric buried a minimum of 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing?
- Are posts are stable, fabric is tight and without rips or frayed areas?

Excavated Drop Inlet Protection

Section: II.C.1, III.B.1, & IV.A.1

Yes No NA

- Is excavated depth a minimum of 1 foot, but no more than 2-feet maximum?
- Is gravel supported by hardware cloth to allow drainage and restrict sediment movement?
- Are excavated side slopes 2:1?

Site Observations/ Comments:

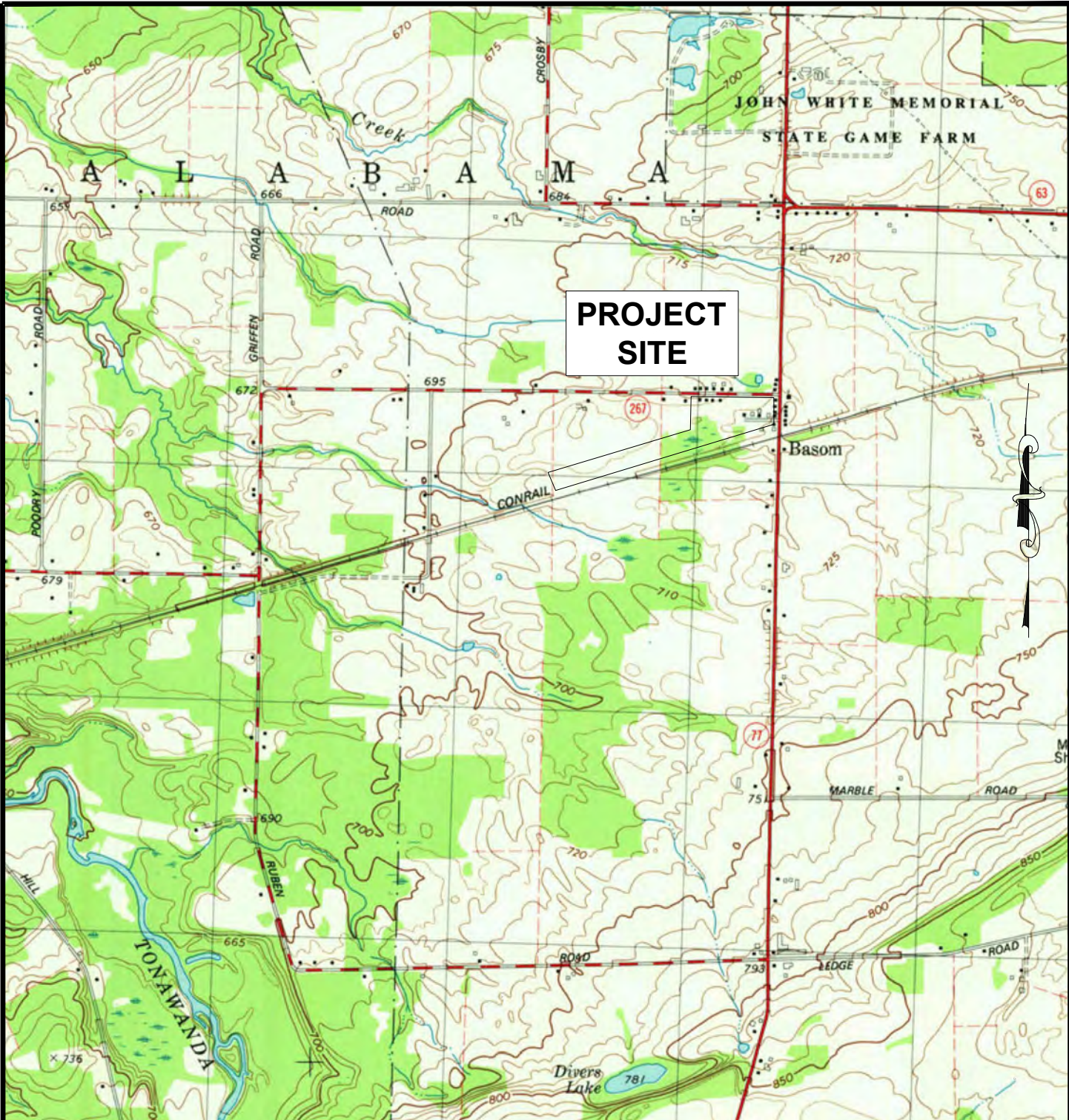
Name and Agency of Inspector: _____

Signature of Inspector: _____

Erosion & Sediment Control Training Stormwater Training Number (SWT#) _____

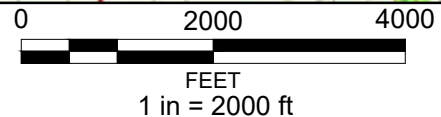
APPENDIX H

FIGURES



Map References:
 This exhibit was prepared based on a reproduction of the USGS Topographic Quadrangle of Akron, NY

FIGURE H1 LOCATION MAP



7174 Alleghany
 Road

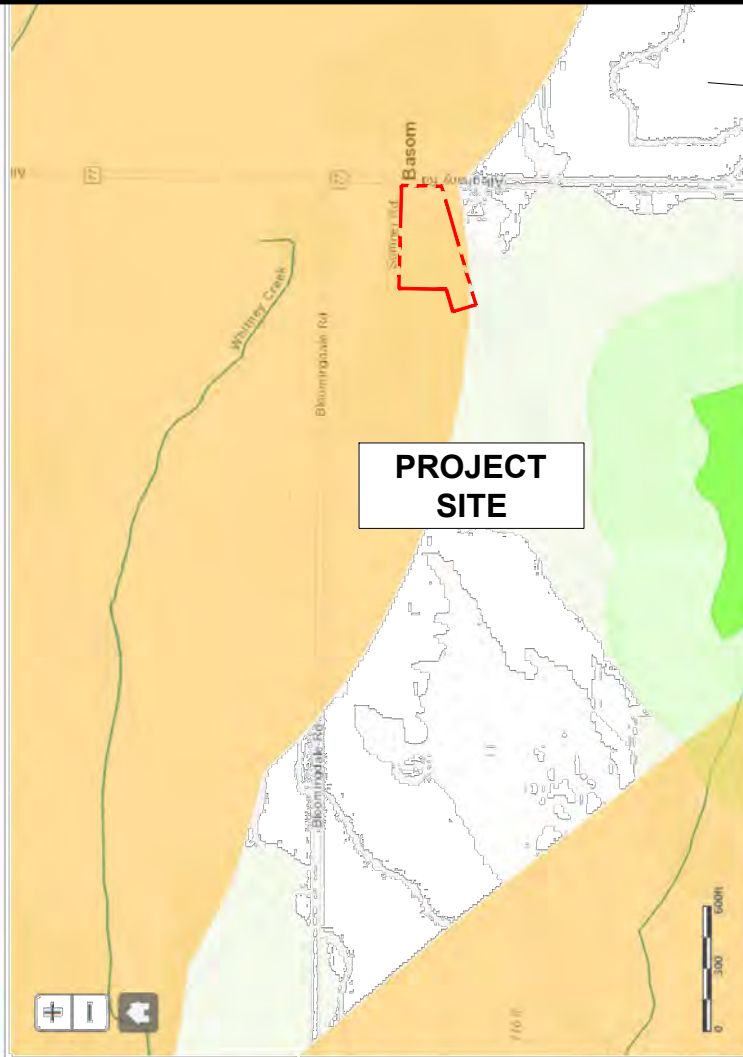
Prepared for:
The Broadway Group, LLC



Town of Alabama
 Genesee County, NY

Drawn by: JAM
 Check by: DYM
 Date: 06/28/2023
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WMB Geologic & Engineering
 Services, DPC
 284 Route 17C,
 Waverly, NY 14892
 607-565-8800



Search Tools

Layers and Legend

State Regulated Wetland Checkzone

Impaired Mussels

Mussel Screening Ponded Waters

Mussel Screening Streams

Significant Natural Communities

Natural Communities Near This Location

Rare Plants or Animals

Base Flood Elevation Plus 72/75 Inches Sea-Level Rise

Limit to Moderate Wave Action

Other Wetland Layers

Reference Layers

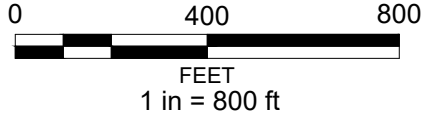
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Need A Permit?

Contacts

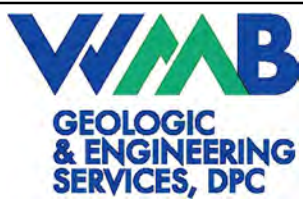
Map References:
This exhibit is prepared based on a reproduction of the NYSDEC Environmental Resource Mapper

FIGURE H2 ENVIRONMENTAL RESOURCES MAP



7174 ALLEGHANY ROAD

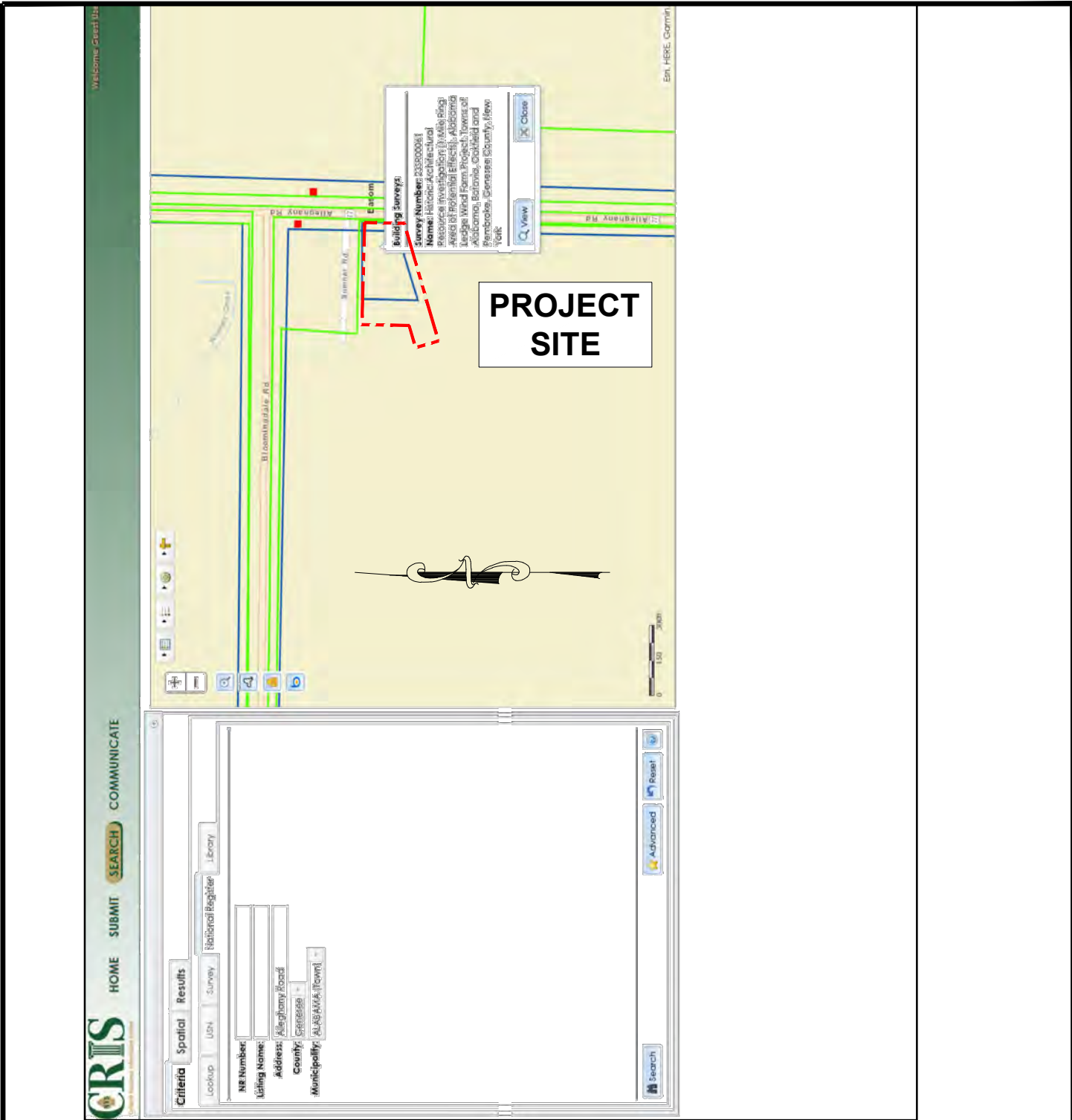
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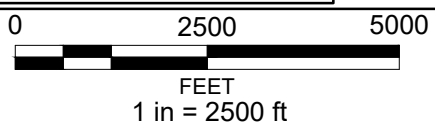
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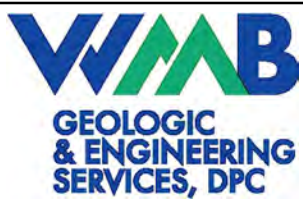
**FIGURE H3
CULTURAL
RESOURCES MAP**



**7174 ALLEGHANY
ROAD**

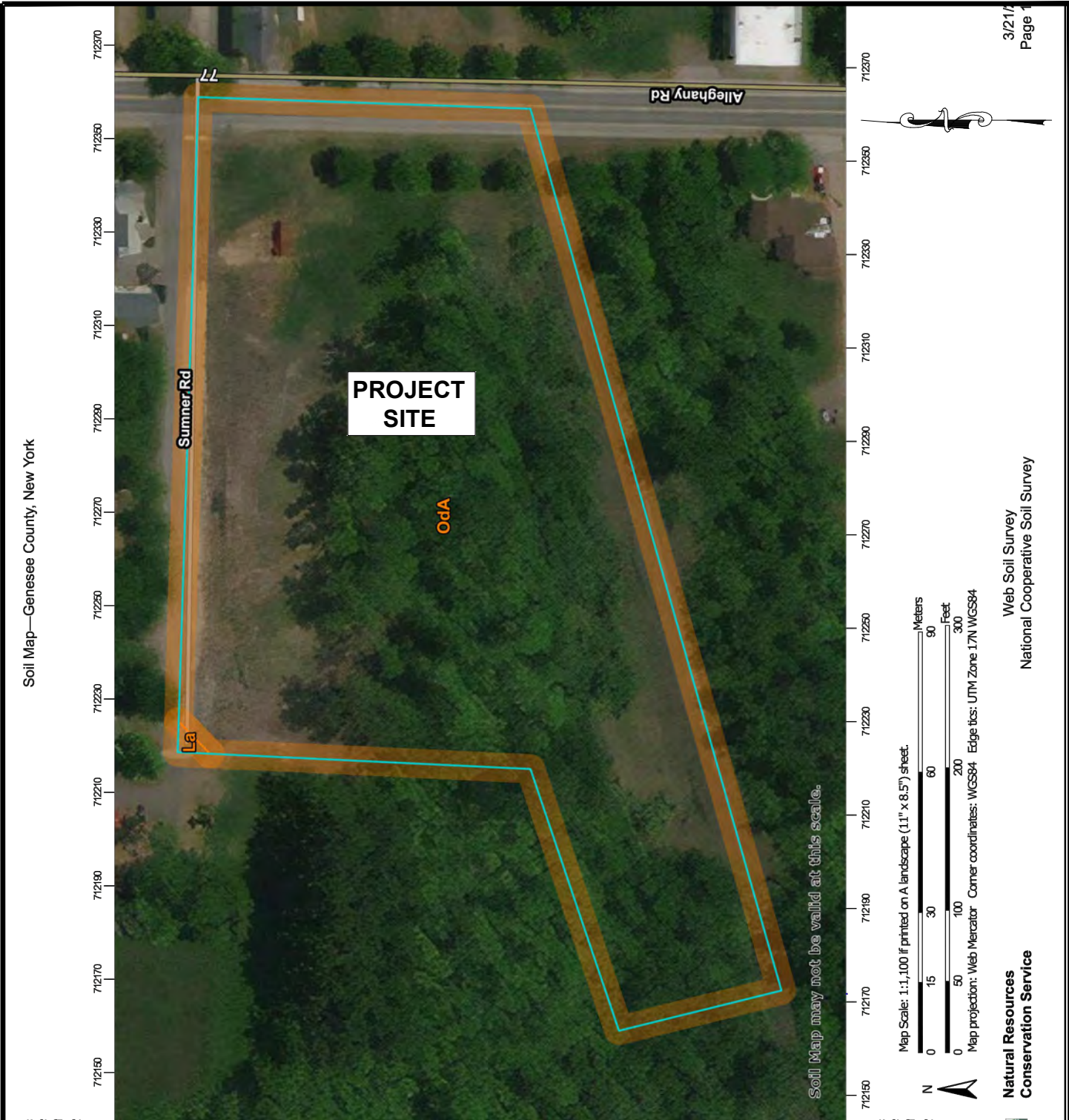
Town of Alabama
Genesee County, NY

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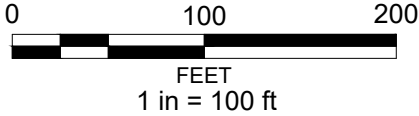
Drawn by: JAM
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Map References:
This exhibit is prepared based on a reproduction of the NRCS Web Soil Survey.

**FIGURE H4
SOILS MAP**



7174 ALLEGHANY
ROAD

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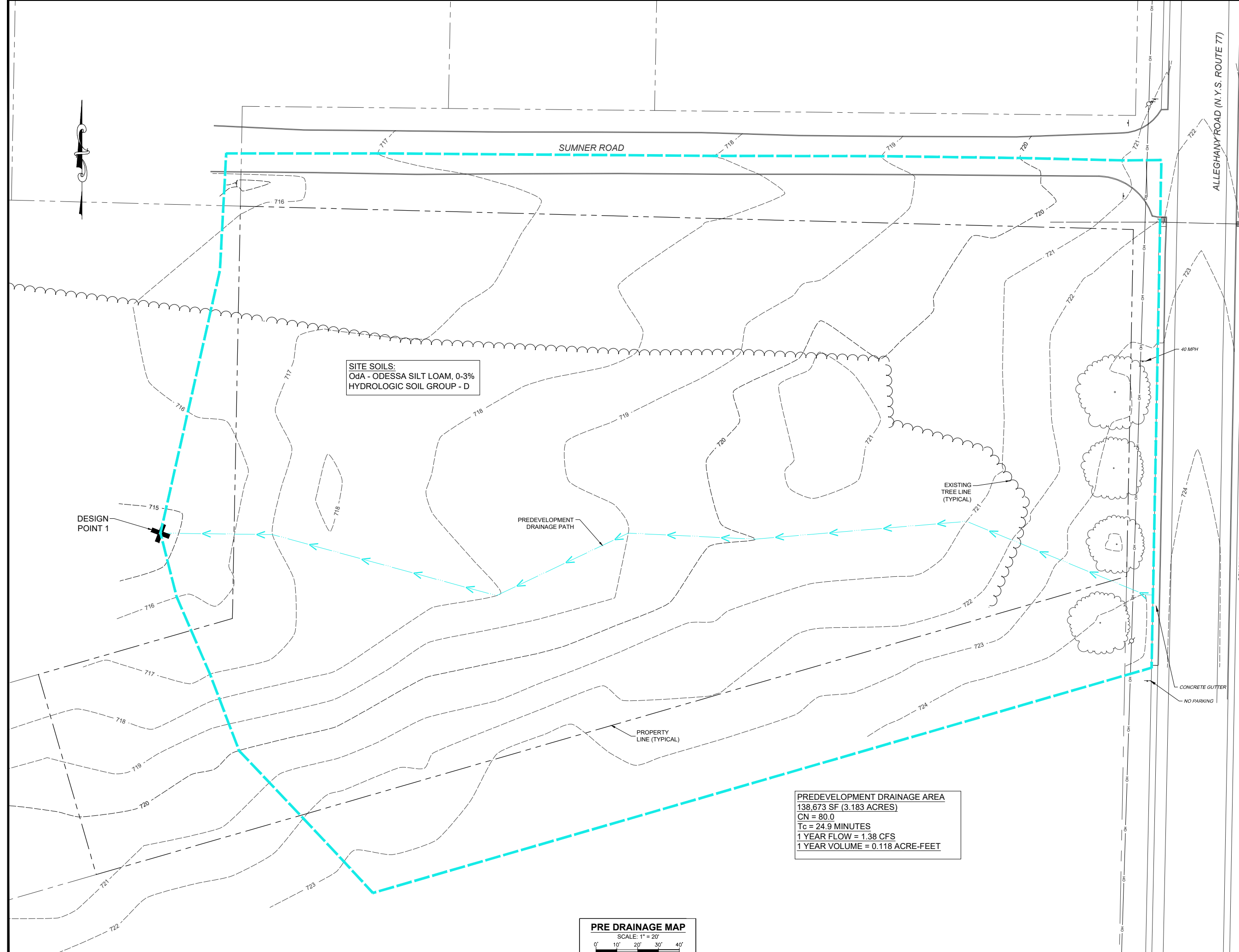


Town of Alabama
Genesee County, NY

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Date: 06/28/2023
Revision:

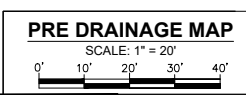
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607-565-8800

NO.	DATE	DESCRIPTION	INT.
0	2023-04-14	INITIAL SUBMISSION	DWY



SITE SOILS:
 OdA - ODESSA SILT LOAM, 0-3%
 HYDROLOGIC SOIL GROUP - D

PREDEVELOPMENT DRAINAGE AREA
 138,673 SF (3.183 ACRES)
 CN = 80.0
 Tc = 24.9 MINUTES
 1 YEAR FLOW = 1.38 CFS
 1 YEAR VOLUME = 0.118 ACRE-FEET



NOTICE
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 HUNTSVILLE, AL 35801



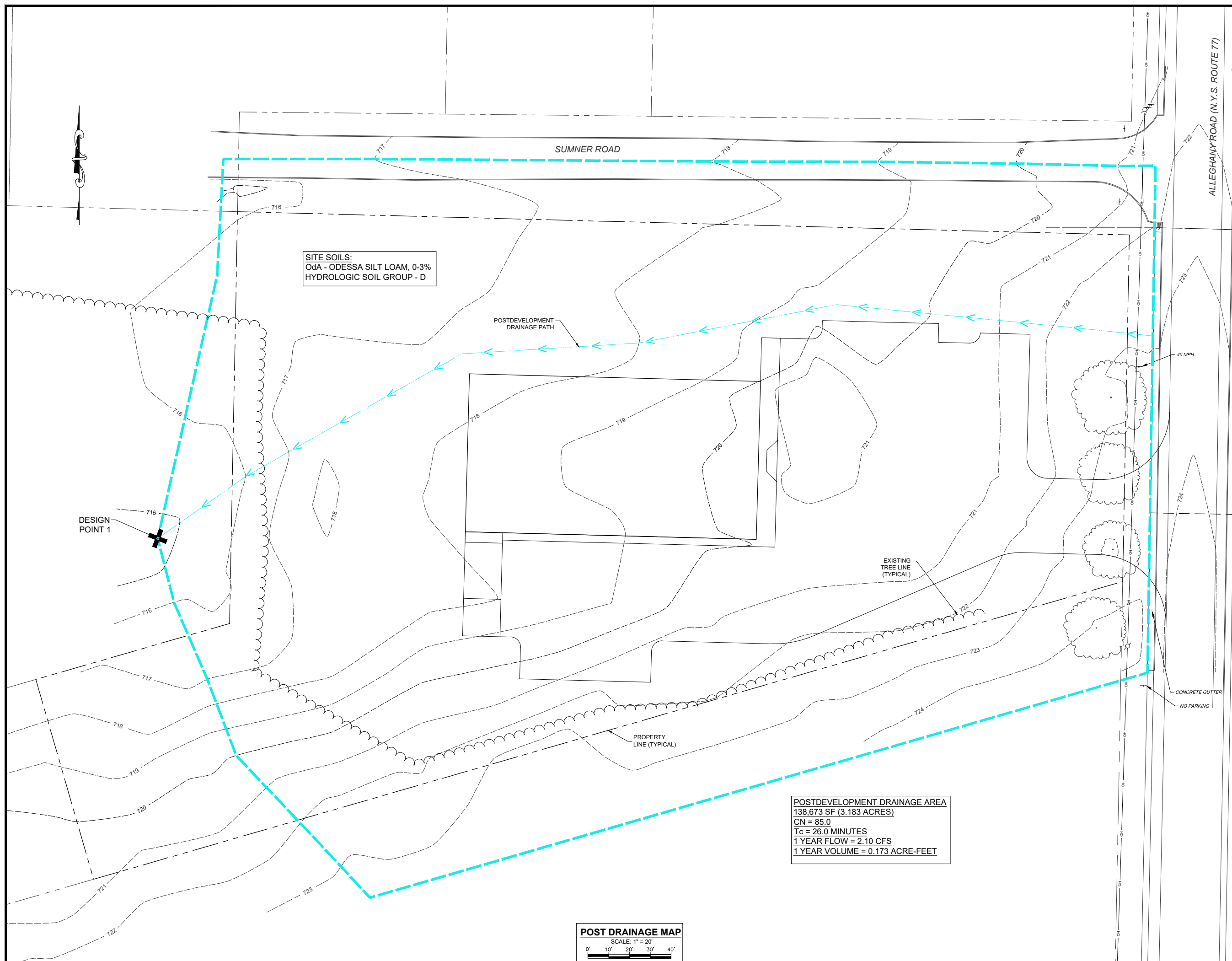
DESIGN PROFESSIONAL FIRM:

WMB GEOLOGIC & ENGINEERING SERVICES, DPC
 284 ROUTE 17C
 WAVERLY, NY 14892
 607-565-9800

PROJECT ID:	21-274.02-DY	DRAWN:	JAM
DATE:	2023-04-14	DESIGN:	DWY
SCALE:	AS NOTED	CHECKED:	DWY

PROJECT:
10,566 SF RETAIL BUILDING
 LOCATED AT
7174 ALLEGHANY ROAD
 TOWN OF ALABAMA
 GENESEE COUNTY, NY

DRAWING TITLE:	PREDEVELOPMENT DRAINAGE MAP
PLAN STATUS:	DESIGN
SHEET NUMBER:	H5



SITE SOILS:
 OdA - ODESSA SILT LOAM, 0-3%
 HYDROLOGIC SOIL GROUP - D


POSTDEVELOPMENT DRAINAGE AREA
 138,673 SF (3.183 ACRES)
 CN = 85.0
 Tc = 26.0 MINUTES
 1 YEAR FLOW = 2.10 CFS
 1 YEAR VOLUME = 0.173 ACRE-FEET

POST DRAINAGE MAP
 SCALE: 1" = 20'
 0' 10' 20' 30' 40'


NO.	DATE	DESCRIPTION	INT.
1	2023-04-14	INITIAL SUBMISSION	DWY

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DEVELOPER:

THE BROADWAY GROUP, LLC
 216 WESTSIDE SQUARE
 HUNTSVILLE, AL 35801



DESIGN PROFESSIONAL FIRM:

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PROJECT ID:	21-274.02-DY	DRAWN:	JAM
DATE:	2023-04-14	DESIGN:	DWY
SCALE:	AS NOTED	CHECKED:	DWY

PROJECT:
10,566 SF RETAIL BUILDING
 LOCATED AT
7174 ALLEGHANY ROAD
 TOWN OF ALABAMA
 GENESEE COUNTY, NY

DRAWING TITLE:	POSTDEVELOPMENT DRAINAGE MAP
PLAN STATUS:	DESIGN
SHEET NUMBER:	H6

APPENDIX I

SOIL TESTING DATA

Exploration Plan with Project Overlay

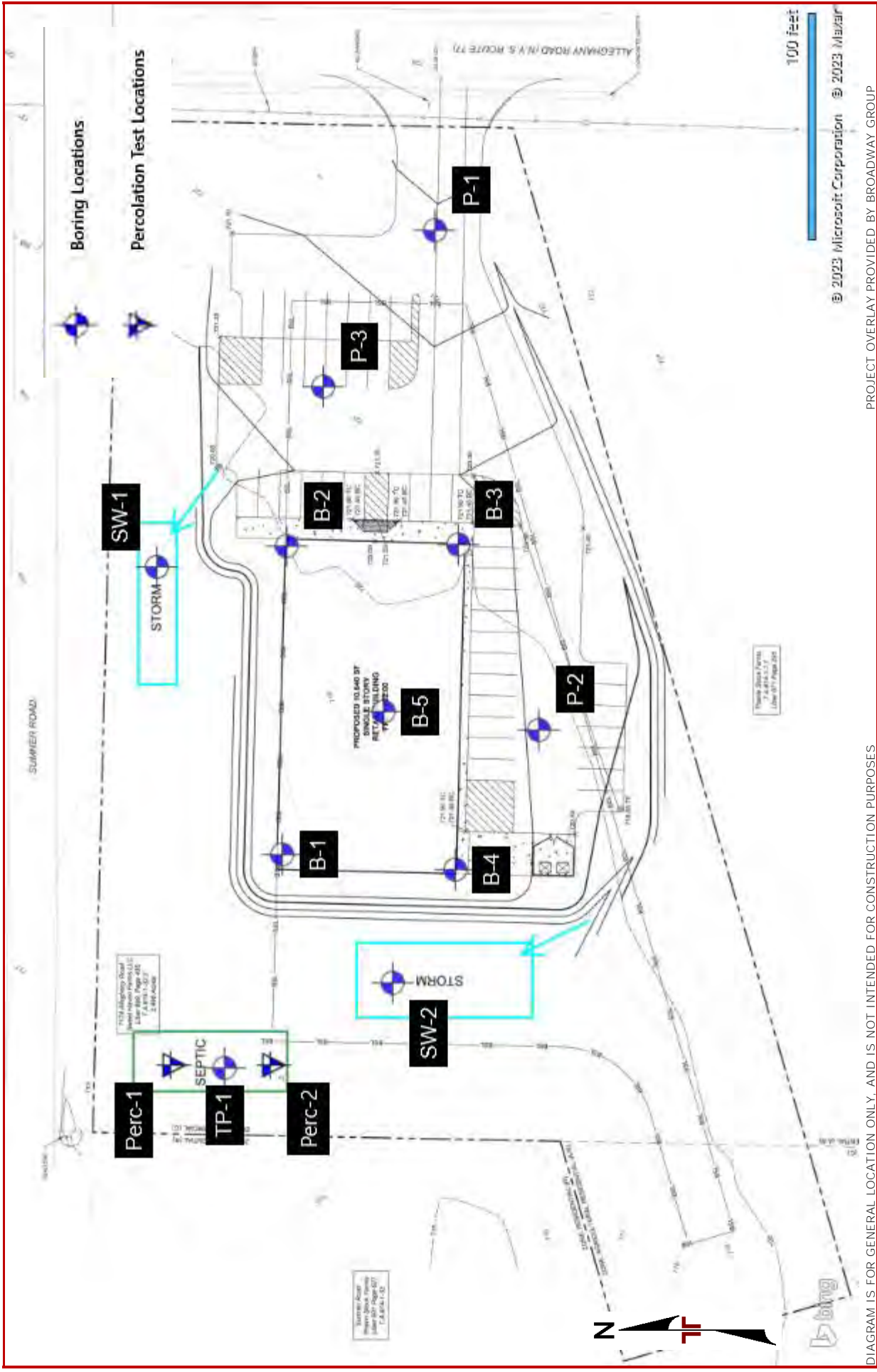


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. PROJECT OVERLAY PROVIDED BY BROADWAY GROUP. © 2023 Microsof Corporation © 2023 Microsoft

Test Pit Log No. TP-1

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 43.0661° Longitude: -78.3935° Depth (Ft.)	Elevation: 717 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type
1		0.3 TOPSOIL	716.7			
2		1.3 FILL - SANDY GRAVEL WITH ASPHALT MILLINGS , black	715.7			
3		3.0 SILTY SAND (SM) , brown	714	5		
3		7.0 SILTY CLAY (CL-ML) , reddish brown	710			
Test Pit Terminated at 7 Feet						

<p>See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any). See Supporting Information for explanation of symbols and abbreviations.</p> <p>Notes Elevation Reference: Elevations were interpolated from a topographic site plan.</p>	<p>Water Level Observations None encountered upon completion of excavating</p> <p>Advancement Method Excavator Bucket</p> <p>Abandonment Method Test Pit backfilled with excavated soils</p>	<p>Excavator Trackhoe</p> <p>Operator J. Jones</p> <p>Logged by B. Pilarski</p> <p>Test Pit Started 04-05-2023</p> <p>Test Pit Completed 04-05-2023</p>
--	--	---

Development Site: 7174 Alleghany Rd. (T/V/C): Basom, NY County: Genesee

Date: 5/15/2023 Tests Conducted By: Blake Pilarski

Weather Conditions: Sunny, 62 degrees F

Test Hole No.	Test Hole Depth (inches)	Lot No.	Soil Profile Description and Groundwater Depth (if identified)	Presoaking Date & Time	Time	Percolation Test					
						1	2	3	4	5	6
Perc-1	26		4" Topsoil underlain by sandy gravel with asphalt millings (fill) to a depth of 16". This was underlain by silty clay (CL-ML) soil to a depth of 26"	5/12/2023 1200 hrs	End	1300	1400	1500	1600		
					Begin	1200	1300	1400	1500		
					Result	No Drop	No Drop	No Drop	No Drop		
Perc-2	28		4" Topsoil underlain by sandy gravel with asphalt millings (fill) to a depth of 14". This was underlain by silty clay (CL-ML) soil to a depth of 24", then underlain by sandy silty clay (CL-ML) to a depth of 28"	5/12/2023 1200 hrs	End	1300	1400	1500	1600		
					Begin	1200	1300	1400	1500		
					Result	.25" drop	.25" drop	.25" drop	.25" drop		

Begin time, end time, and result in minutes for a water elevation change from 6" to 5" above the bottom of the test hole.

Notes:

Percolation test Perc-1 had presoak water present at a depth of 6" in the hole at the start of 5/15.

INFILTRATION TEST DATA SUMMARY

Project:	Dollar General - Basom	Project No.:	J5235080
Weather:	Sunny	Tester :	Blake Pilarski
Presoak Date:	5/12/2023	Test Date:	5/15/2023



Test Location	Test Depth	Soil Classification	Trial Number	Water Drop (inches)	Elapsed Time (hours)	Infiltration Rate (inches/hour)
Near SW-1	5	Silty Clay with Sand (CL-ML)	1	0	1	0
			2	0	1	0
			3	0	1	0
			4	0	1	0
			Average infiltration rate for the four trials was 0 inches per hour. Infiltration rate of the final trial was 0 inches per hour.			
Near SW-2	5	Silty Clay with Sand (CL-ML)	1	0.5	1	0.5
			2	0.5	1	0.5
			3	0.25	1	0.25
			4	0.25	1	0.25
			Average infiltration rate for the four trials was 0.3 inches per hour. Infiltration rate of the final trial was 0.25 inches per hour.			

Testing was conducted in general accordance with Appendix D of the New York State Storm Water Management Design Manual.

APPENDIX J

PRE-DEVELOPMENT STORMWATER MODELING



NOAA Atlas 14, Volume 10, Version 3
 Location name: Basom, New York, USA*
 Latitude: 43.0653°, Longitude: -78.3912°
 Elevation: 725 ft**
 * source: ESRI Maps
 ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerials](#)

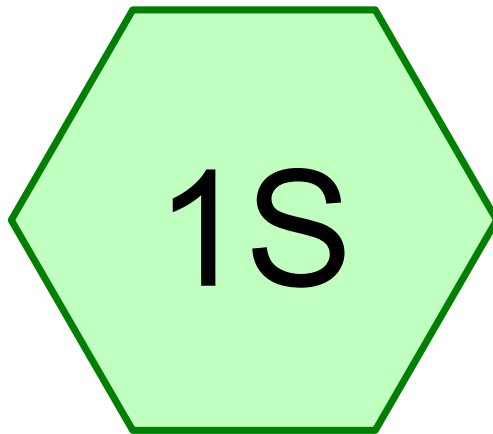
PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.269 (0.205-0.351)	0.329 (0.250-0.430)	0.427 (0.325-0.560)	0.508 (0.384-0.667)	0.619 (0.456-0.846)	0.702 (0.509-0.977)	0.791 (0.561-1.14)	0.898 (0.601-1.30)	1.06 (0.684-1.57)	1.20 (0.757-1.80)
10-min	0.381 (0.290-0.498)	0.466 (0.355-0.609)	0.604 (0.459-0.793)	0.719 (0.543-0.946)	0.877 (0.646-1.20)	0.994 (0.721-1.38)	1.12 (0.795-1.61)	1.27 (0.850-1.84)	1.50 (0.969-2.22)	1.69 (1.07-2.55)
15-min	0.448 (0.342-0.585)	0.548 (0.417-0.716)	0.711 (0.540-0.931)	0.846 (0.639-1.11)	1.03 (0.760-1.41)	1.17 (0.848-1.63)	1.32 (0.935-1.90)	1.50 (1.00-2.16)	1.76 (1.14-2.62)	1.99 (1.26-3.00)
30-min	0.619 (0.472-0.808)	0.757 (0.576-0.989)	0.982 (0.746-1.29)	1.17 (0.883-1.54)	1.43 (1.05-1.95)	1.62 (1.17-2.25)	1.82 (1.29-2.62)	2.07 (1.38-2.99)	2.44 (1.58-3.61)	2.75 (1.74-4.14)
60-min	0.789 (0.602-1.03)	0.965 (0.735-1.26)	1.25 (0.952-1.64)	1.49 (1.13-1.96)	1.82 (1.34-2.49)	2.06 (1.50-2.87)	2.33 (1.65-3.34)	2.64 (1.76-3.81)	3.11 (2.01-4.61)	3.51 (2.22-5.28)
2-hr	0.981 (0.754-1.27)	1.19 (0.917-1.54)	1.54 (1.18-2.00)	1.83 (1.39-2.38)	2.22 (1.65-3.01)	2.52 (1.84-3.47)	2.84 (2.02-4.03)	3.21 (2.16-4.59)	3.76 (2.44-5.52)	4.23 (2.69-6.30)
3-hr	1.10 (0.853-1.42)	1.34 (1.03-1.72)	1.72 (1.32-2.22)	2.04 (1.56-2.64)	2.47 (1.84-3.32)	2.80 (2.05-3.83)	3.15 (2.25-4.44)	3.55 (2.40-5.05)	4.16 (2.71-6.07)	4.67 (2.98-6.92)
6-hr	1.34 (1.04-1.70)	1.61 (1.25-2.05)	2.05 (1.60-2.63)	2.42 (1.87-3.11)	2.93 (2.20-3.91)	3.31 (2.44-4.49)	3.72 (2.68-5.20)	4.20 (2.85-5.91)	4.90 (3.21-7.09)	5.50 (3.53-8.07)
12-hr	1.60 (1.26-2.02)	1.91 (1.50-2.42)	2.43 (1.90-3.07)	2.85 (2.22-3.63)	3.44 (2.60-4.53)	3.87 (2.88-5.20)	4.34 (3.15-6.01)	4.89 (3.34-6.82)	5.71 (3.77-8.17)	6.41 (4.13-9.30)
24-hr	1.90 (1.50-2.37)	2.24 (1.78-2.80)	2.80 (2.22-3.52)	3.27 (2.57-4.12)	3.92 (2.99-5.11)	4.40 (3.29-5.83)	4.91 (3.58-6.72)	5.51 (3.79-7.61)	6.40 (4.24-9.07)	7.15 (4.63-10.3)
2-day	2.24 (1.79-2.77)	2.60 (2.08-3.22)	3.18 (2.54-3.95)	3.67 (2.91-4.58)	4.34 (3.34-5.59)	4.84 (3.65-6.34)	5.37 (3.93-7.25)	5.98 (4.14-8.16)	6.86 (4.58-9.62)	7.59 (4.94-10.8)
3-day	2.49 (2.01-3.07)	2.86 (2.30-3.52)	3.45 (2.77-4.27)	3.95 (3.15-4.90)	4.63 (3.58-5.93)	5.14 (3.89-6.69)	5.68 (4.17-7.60)	6.29 (4.38-8.54)	7.17 (4.80-9.98)	7.89 (5.15-11.2)
4-day	2.71 (2.19-3.32)	3.08 (2.49-3.78)	3.69 (2.97-4.54)	4.20 (3.36-5.18)	4.89 (3.79-6.23)	5.42 (4.11-7.01)	5.97 (4.39-7.94)	6.58 (4.60-8.90)	7.46 (5.01-10.3)	8.17 (5.35-11.5)
7-day	3.24 (2.64-3.95)	3.65 (2.97-4.45)	4.32 (3.50-5.28)	4.88 (3.93-5.98)	5.64 (4.40-7.11)	6.22 (4.74-7.96)	6.82 (5.02-8.94)	7.45 (5.23-9.98)	8.32 (5.62-11.4)	9.00 (5.92-12.6)
10-day	3.75 (3.07-4.53)	4.19 (3.43-5.08)	4.92 (4.01-5.97)	5.52 (4.48-6.74)	6.36 (4.97-7.96)	7.00 (5.35-8.88)	7.64 (5.63-9.93)	8.30 (5.85-11.1)	9.18 (6.22-12.6)	9.86 (6.50-13.7)
20-day	5.28 (4.36-6.32)	5.82 (4.81-6.98)	6.72 (5.53-8.08)	7.46 (6.10-9.01)	8.49 (6.69-10.5)	9.28 (7.14-11.6)	10.1 (7.46-12.9)	10.8 (7.70-14.3)	11.8 (8.06-16.0)	12.5 (8.31-17.2)
30-day	6.57 (5.46-7.82)	7.20 (5.98-8.58)	8.22 (6.80-9.82)	9.07 (7.46-10.9)	10.2 (8.12-12.6)	11.2 (8.62-13.9)	12.0 (8.95-15.3)	12.9 (9.20-16.9)	14.0 (9.56-18.8)	14.7 (9.80-20.1)
45-day	8.20 (6.86-9.71)	8.92 (7.45-10.6)	10.1 (8.40-12.0)	11.1 (9.15-13.2)	12.4 (9.88-15.1)	13.5 (10.5-16.6)	14.5 (10.8-18.3)	15.4 (11.1-20.1)	16.6 (11.4-22.2)	17.4 (11.6-23.6)
60-day	9.59 (8.05-11.3)	10.4 (8.70-12.2)	11.7 (9.75-13.8)	12.7 (10.6-15.1)	14.2 (11.4-17.3)	15.4 (12.0-18.9)	16.5 (12.3-20.7)	17.5 (12.6-22.7)	18.7 (12.9-24.9)	19.6 (13.1-26.4)

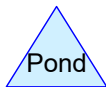
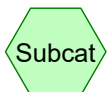
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical



Predevelopment



pre

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-year	Type II 24-hr		Default	24.00	1	1.90	2
2	10-year	Type II 24-hr		Default	24.00	1	3.27	2
3	100-year	Type II 24-hr		Default	24.00	1	4.91	2

pre

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.095	98	Paved parking, HSG D (1S)
3.088	79	Woods/grass comb., Good, HSG D (1S)
3.183	80	TOTAL AREA

pre

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Page 4

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
3.183	HSG D	1S
0.000	Other	
3.183		TOTAL AREA

pre

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Ground Covers (all 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	0.095	0.000	0.095	Paved parking	1S
0.000	0.000	0.000	3.088	0.000	3.088	Woods/grass comb., Good	1S
0.000	0.000	0.000	3.183	0.000	3.183	TOTAL AREA	

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Type II 24-hr 1-year Rainfall=1.90"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Predevelopment

Runoff Area=3.183 ac 2.98% Impervious Runoff Depth>0.44"
Flow Length=495' Tc=24.9 min CN=80 Runoff=1.38 cfs 0.118 af

Total Runoff Area = 3.183 ac Runoff Volume = 0.118 af Average Runoff Depth = 0.44"
97.02% Pervious = 3.088 ac 2.98% Impervious = 0.095 ac

pre

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Type II 24-hr 1-year Rainfall=1.90"

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Summary for Subcatchment 1S: Predevelopment

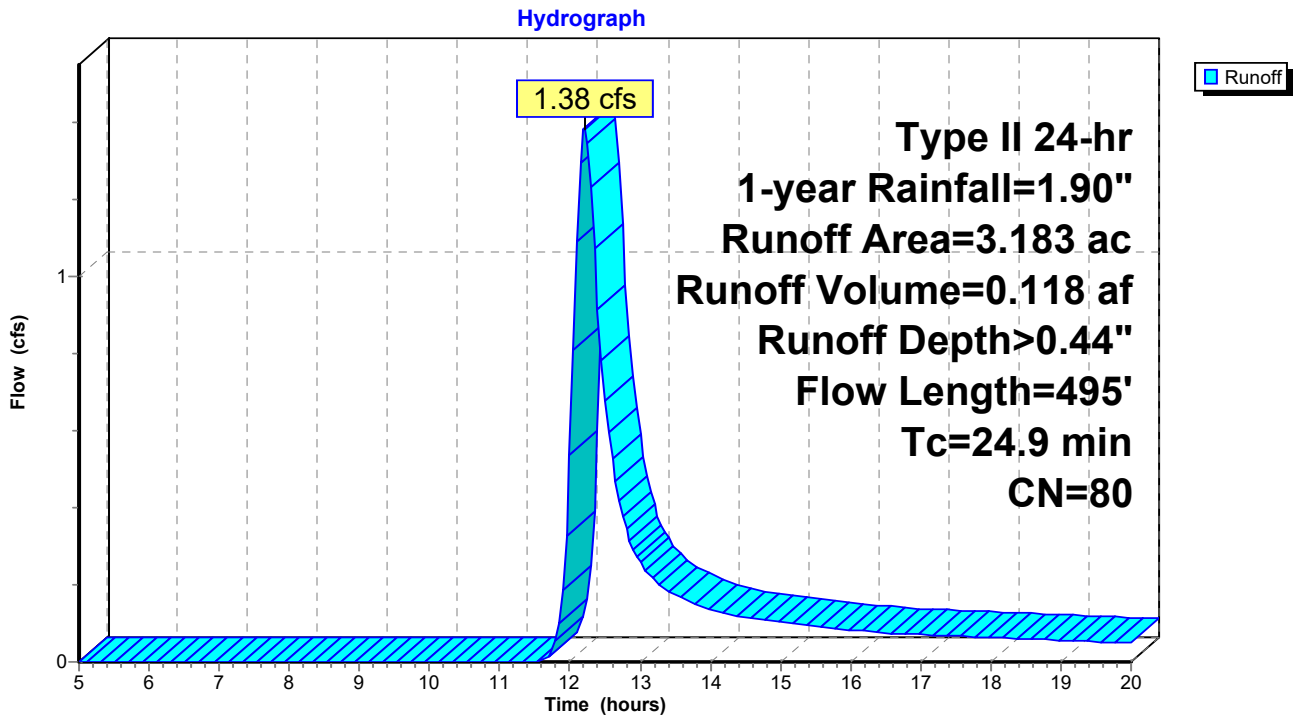
Runoff = 1.38 cfs @ 12.21 hrs, Volume= 0.118 af, Depth> 0.44"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-year Rainfall=1.90"

Area (ac)	CN	Description
0.095	98	Paved parking, HSG D
3.088	79	Woods/grass comb., Good, HSG D
3.183	80	Weighted Average
3.088		97.02% Pervious Area
0.095		2.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	100	0.0267	0.11		Sheet Flow, front yard Grass: Dense n= 0.240 P2= 2.24"
9.7	395	0.0185	0.68		Shallow Concentrated Flow, rear yard Woodland Kv= 5.0 fps
24.9	495	Total			

Subcatchment 1S: Predevelopment



pre

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Type II 24-hr 10-year Rainfall=3.27"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Predevelopment

Runoff Area=3.183 ac 2.98% Impervious Runoff Depth>1.32"
Flow Length=495' Tc=24.9 min CN=80 Runoff=4.45 cfs 0.351 af

Total Runoff Area = 3.183 ac Runoff Volume = 0.351 af Average Runoff Depth = 1.32"
97.02% Pervious = 3.088 ac 2.98% Impervious = 0.095 ac

pre

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Type II 24-hr 10-year Rainfall=3.27"

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Summary for Subcatchment 1S: Predevelopment

Runoff = 4.45 cfs @ 12.19 hrs, Volume= 0.351 af, Depth> 1.32"

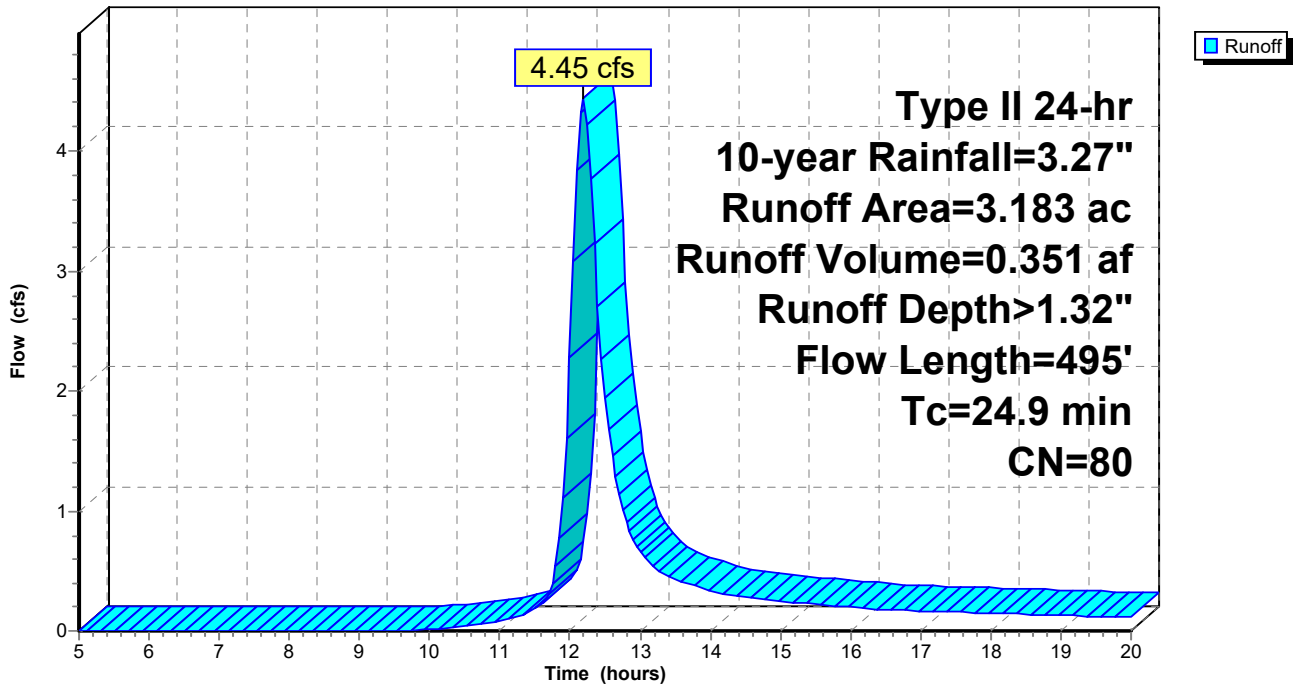
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-year Rainfall=3.27"

Area (ac)	CN	Description
0.095	98	Paved parking, HSG D
3.088	79	Woods/grass comb., Good, HSG D
3.183	80	Weighted Average
3.088		97.02% Pervious Area
0.095		2.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	100	0.0267	0.11		Sheet Flow, front yard Grass: Dense n= 0.240 P2= 2.24"
9.7	395	0.0185	0.68		Shallow Concentrated Flow, rear yard Woodland Kv= 5.0 fps
24.9	495	Total			

Subcatchment 1S: Predevelopment

Hydrograph



pre

Type II 24-hr 100-year Rainfall=4.91"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Predevelopment

Runoff Area=3.183 ac 2.98% Impervious Runoff Depth>2.59"
Flow Length=495' Tc=24.9 min CN=80 Runoff=8.71 cfs 0.687 af

Total Runoff Area = 3.183 ac Runoff Volume = 0.687 af Average Runoff Depth = 2.59"
97.02% Pervious = 3.088 ac 2.98% Impervious = 0.095 ac

pre

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Type II 24-hr 100-year Rainfall=4.91"

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Summary for Subcatchment 1S: Predevelopment

Runoff = 8.71 cfs @ 12.18 hrs, Volume= 0.687 af, Depth> 2.59"

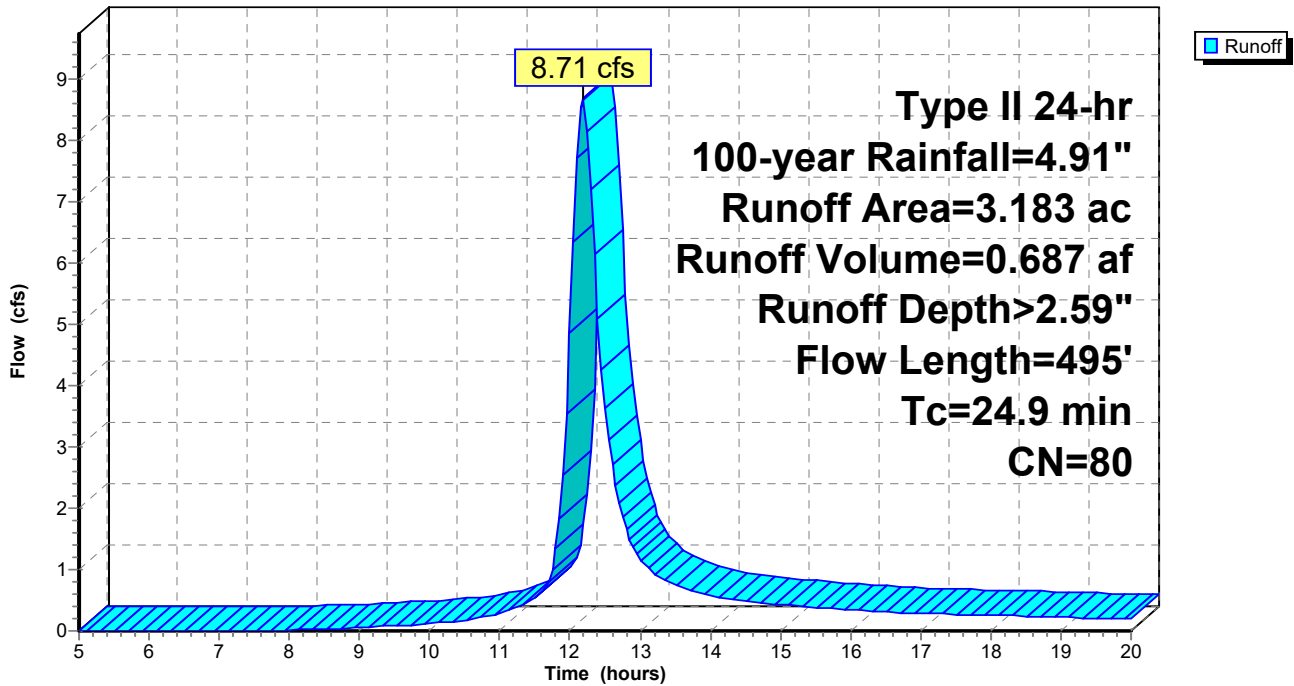
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-year Rainfall=4.91"

Area (ac)	CN	Description
0.095	98	Paved parking, HSG D
3.088	79	Woods/grass comb., Good, HSG D
3.183	80	Weighted Average
3.088		97.02% Pervious Area
0.095		2.98% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.2	100	0.0267	0.11		Sheet Flow, front yard Grass: Dense n= 0.240 P2= 2.24"
9.7	395	0.0185	0.68		Shallow Concentrated Flow, rear yard Woodland Kv= 5.0 fps
24.9	495	Total			

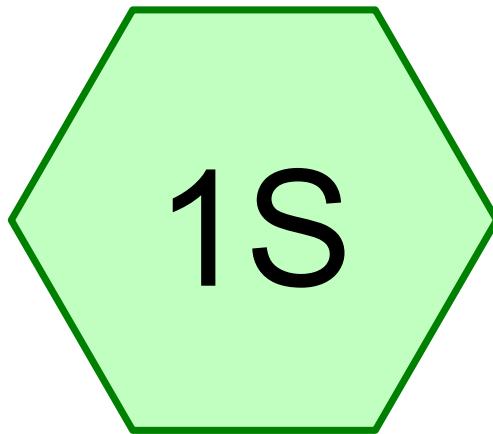
Subcatchment 1S: Predevelopment

Hydrograph

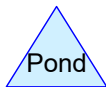
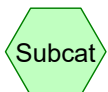


APPENDIX K

POST-DEVELOPMENT STORMWATER MODELING



Postdevelopment



post

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Page 2

Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	1-year	Type II 24-hr		Default	24.00	1	1.90	2
2	10-year	Type II 24-hr		Default	24.00	1	3.27	2
3	100-year	Type II 24-hr		Default	24.00	1	4.91	2

post

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.083	98	Paved parking, HSG D (1S)
2.100	79	Woods/grass comb., Good, HSG D (1S)
3.183	85	TOTAL AREA

post

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Page 4

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
3.183	HSG D	1S
0.000	Other	
3.183		TOTAL AREA

post

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Page 5

Ground Covers (all 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	1.083	0.000	1.083	Paved parking	1S
0.000	0.000	0.000	2.100	0.000	2.100	Woods/grass comb., Good	1S
0.000	0.000	0.000	3.183	0.000	3.183	TOTAL AREA	

post

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Type II 24-hr 1-year Rainfall=1.90"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Postdevelopment

Runoff Area=3.183 ac 34.02% Impervious Runoff Depth>0.65"
Flow Length=507' Tc=26.0 min CN=85 Runoff=2.10 cfs 0.173 af

Total Runoff Area = 3.183 ac Runoff Volume = 0.173 af Average Runoff Depth = 0.65"
65.98% Pervious = 2.100 ac 34.02% Impervious = 1.083 ac

post

Type II 24-hr 1-year Rainfall=1.90"

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Summary for Subcatchment 1S: Postdevelopment

Runoff = 2.10 cfs @ 12.21 hrs, Volume= 0.173 af, Depth> 0.65"

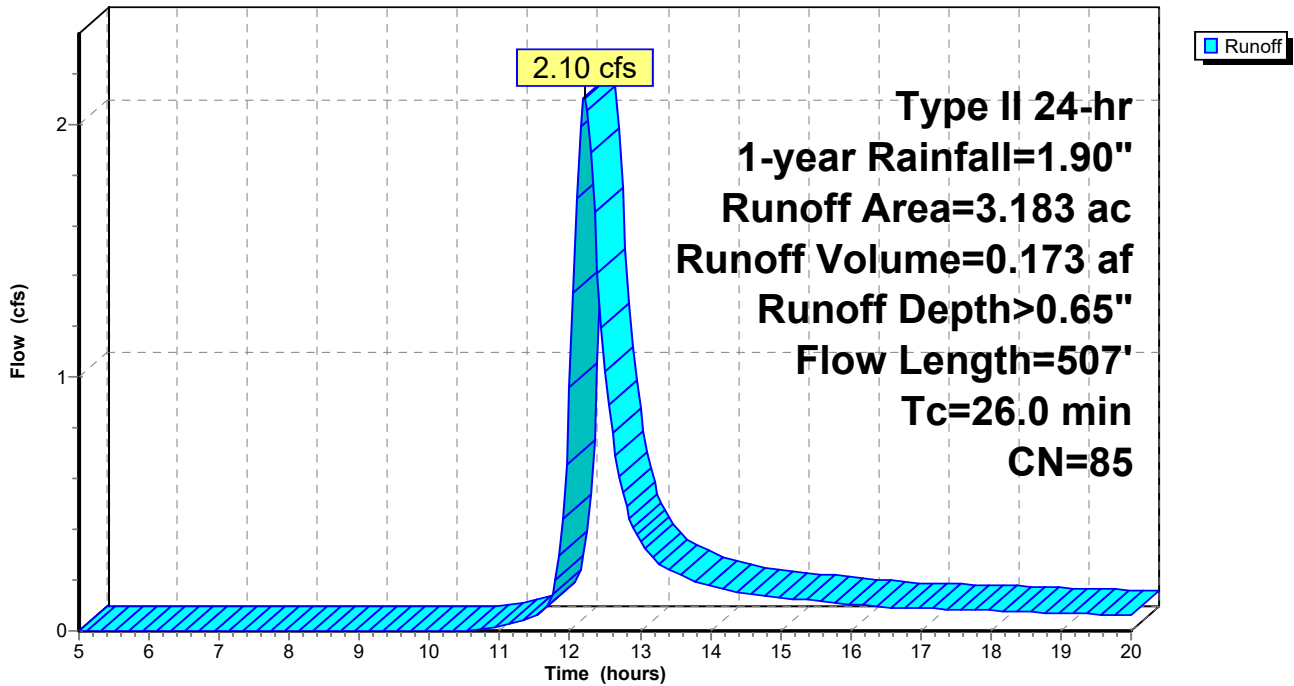
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 1-year Rainfall=1.90"

Area (ac)	CN	Description
1.083	98	Paved parking, HSG D
2.100	79	Woods/grass comb., Good, HSG D
3.183	85	Weighted Average
2.100		65.98% Pervious Area
1.083		34.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.6	100	0.0160	0.09		Sheet Flow, front yard Grass: Dense n= 0.240 P2= 2.24"
7.4	407	0.0173	0.92		Shallow Concentrated Flow, rear yard Short Grass Pasture Kv= 7.0 fps
26.0	507	Total			

Subcatchment 1S: Postdevelopment

Hydrograph



post

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Type II 24-hr 10-year Rainfall=3.27"

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Page 8

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Postdevelopment

Runoff Area=3.183 ac 34.02% Impervious Runoff Depth>1.67"
Flow Length=507' Tc=26.0 min CN=85 Runoff=5.48 cfs 0.443 af

Total Runoff Area = 3.183 ac Runoff Volume = 0.443 af Average Runoff Depth = 1.67"
65.98% Pervious = 2.100 ac 34.02% Impervious = 1.083 ac

post

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Type II 24-hr 10-year Rainfall=3.27"

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Page 9

Summary for Subcatchment 1S: Postdevelopment

Runoff = 5.48 cfs @ 12.20 hrs, Volume= 0.443 af, Depth> 1.67"

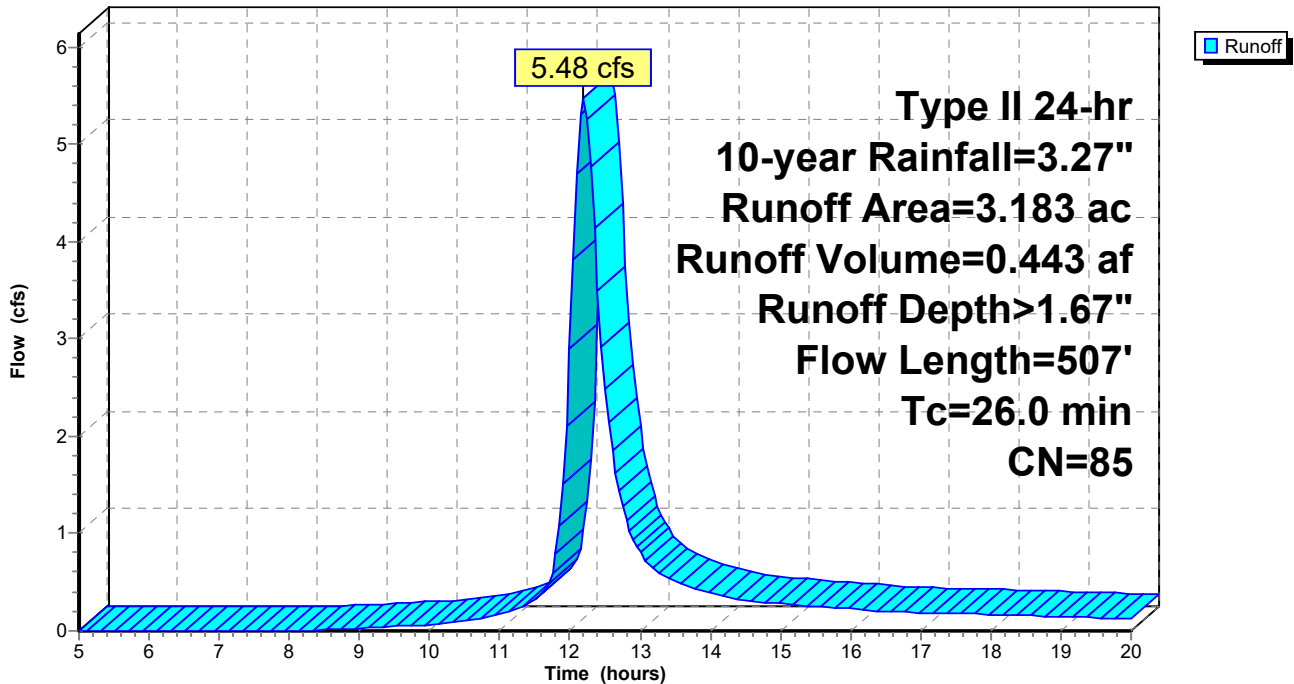
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 10-year Rainfall=3.27"

Area (ac)	CN	Description
1.083	98	Paved parking, HSG D
2.100	79	Woods/grass comb., Good, HSG D
3.183	85	Weighted Average
2.100		65.98% Pervious Area
1.083		34.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.6	100	0.0160	0.09		Sheet Flow, front yard Grass: Dense n= 0.240 P2= 2.24"
7.4	407	0.0173	0.92		Shallow Concentrated Flow, rear yard Short Grass Pasture Kv= 7.0 fps
26.0	507	Total			

Subcatchment 1S: Postdevelopment

Hydrograph



post

Type II 24-hr 100-year Rainfall=4.91"

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Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Postdevelopment

Runoff Area=3.183 ac 34.02% Impervious Runoff Depth>3.05"
Flow Length=507' Tc=26.0 min CN=85 Runoff=9.86 cfs 0.808 af

Total Runoff Area = 3.183 ac Runoff Volume = 0.808 af Average Runoff Depth = 3.05"
65.98% Pervious = 2.100 ac 34.02% Impervious = 1.083 ac

post

Type II 24-hr 100-year Rainfall=4.91"

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Summary for Subcatchment 1S: Postdevelopment

Runoff = 9.86 cfs @ 12.19 hrs, Volume= 0.808 af, Depth> 3.05"

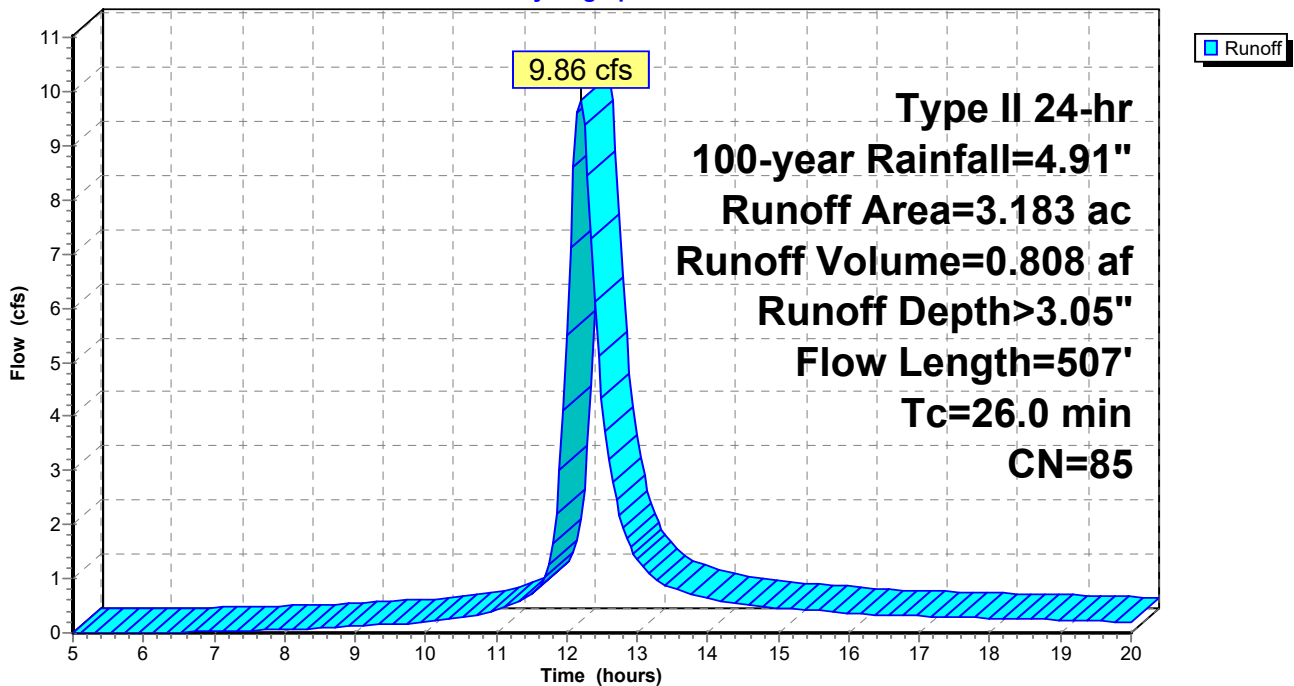
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type II 24-hr 100-year Rainfall=4.91"

Area (ac)	CN	Description
1.083	98	Paved parking, HSG D
2.100	79	Woods/grass comb., Good, HSG D
3.183	85	Weighted Average
2.100		65.98% Pervious Area
1.083		34.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.6	100	0.0160	0.09		Sheet Flow, front yard Grass: Dense n= 0.240 P2= 2.24"
7.4	407	0.0173	0.92		Shallow Concentrated Flow, rear yard Short Grass Pasture Kv= 7.0 fps
26.0	507	Total			

Subcatchment 1S: Postdevelopment

Hydrograph



APPENDIX L

PROJECT EVALUATION AND DESIGN CALCULATIONS

Version 1.8

Last Updated: 11/09/2015

Total Water Quality Volume Calculation

$$WQV(\text{acre-feet}) = [(P)(Rv)(A)] / 12$$

	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Runoff Coefficient Rv	WQv (ft ³)
"<<Initial WQv"	0.75	0.75	100%	0.95	2,573
Subtract Area	0.00	0.00			
WQv adjusted after Area Reductions	0.75	0.75	100%	0.95	2,573
Disconnection of Rooftops		0.00			
Adjusted WQv after Area Reduction and Rooftop Disconnect	0.75	0.75	100%	0.95	2,573
WQv reduced by Area Reduction techniques					0
				0.06	af
				0.00	af

Is this project subject to Chapter 10 of the NYS Design Manual (i.e. WQv is equal to post-development 1 year runoff volume)? No

Design Point: 1
 P= 1.00
 inch

Breakdown of Subcatchments

Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft ³)	Description
1	0.49	0.49	100%	0.95	1,690	Bioretention
2	0.26	0.26	100%	0.95	883	Bioretention
3						
4						
5						
6						
7						
8						
9						
10						
Subtotal (1-30)	0.75	0.75	100%	0.95	2,573	Subtotal 1
Total	0.75	0.75	100%	0.95	2,573	Initial WQv

Identify Runoff Reduction Techniques By Area

Technique	Total Contributing Area (Acre)		Notes
	Contributing Area (Acre)	Impervious Area (Acre)	
Conservation of Natural Areas	0.00	0.00	minimum 10,000 sf
Riparian Buffers	0.00	0.00	maximum contributing length 75 feet to 150 feet
Filter Strips	0.00	0.00	
Tree Planting	0.00	0.00	Up to 100 sf directly connected impervious area may be subtracted per tree
Total	0.00	0.00	

Recalculate WQv after application of Area Reduction Techniques

Total Water Quality Volume Calculation

$$WQv(\text{acre-feet}) = [(P)(Rv)(A)] / 12$$

All Subcatchments						
Catchment	Total Area (Acres)	Impervious Cover (Acres)	Percent Impervious %	Runoff Coefficient Rv	WQv (ft ³)	Description
1	0.49	0.49	1.00	0.95	1689.77	Bioretention
2	0.26	0.26	1.00	0.95	883	Bioretention
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Runoff Reduction Volume and Treated volumes

	Runoff Reduction Techiques/Standard SMPs		Total Contributing Area	Total Contributing Impervious Area	WQv Reduced (RRv)	WQv Treated
			(acres)	(acres)	cf	cf
Area/Volume Reduction	Conservation of Natural Areas	RR-1	0.00	0.00		
	Sheetflow to Riparian Buffers/Filter Strips	RR-2	0.00	0.00		
	Tree Planting/Tree Pit	RR-3	0.00	0.00		
	Disconnection of Rooftop Runoff	RR-4		0.00		
	Vegetated Swale	RR-5	0.00	0.00	0	
	Rain Garden	RR-6	0.00	0.00	0	
	Stormwater Planter	RR-7	0.00	0.00	0	
	Rain Barrel/Cistern	RR-8	0.00	0.00	0	
	Porous Pavement	RR-9	0.00	0.00	0	
	Green Roof (Intensive & Extensive)	RR-10	0.00	0.00	0	
Standard SMPs w/RRv Capacity	Infiltration Trench	I-1	0.00	0.00	0	0
	Infiltration Basin	I-2	0.00	0.00	0	0
	Dry Well	I-3	0.00	0.00	0	0
	Underground Infiltration System	I-4				
	Bioretention & Infiltration Bioretention	F-5	0.75	0.75	1046	1526
	Dry swale	O-1	0.00	0.00	0	0
Standard SMPs	Micropool Extended Detention (P-1)	P-1				
	Wet Pond (P-2)	P-2				
	Wet Extended Detention (P-3)	P-3				
	Multiple Pond system (P-4)	P-4				
	Pocket Pond (p-5)	P-5				
	Surface Sand filter (F-1)	F-1				
	Underground Sand filter (F-2)	F-2				
	Perimeter Sand Filter (F-3)	F-3				
	Organic Filter (F-4)	F-4				
	Shallow Wetland (W-1)	W-1				
	Extended Detention Wetland (W-2)	W-2				
	Pond/Wetland System (W-3)	W-3				
	Pocket Wetland (W-4)	W-4				
Wet Swale (O-2)	O-2					
Totals by Area Reduction →			0.00	0.00	0	
Totals by Volume Reduction →			0.00	0.00	0	
Totals by Standard SMP w/RRV →			0.75	0.75	1046	1526
Totals by Standard SMP →			0.00	0.00		0
Totals (Area + Volume + all SMPs) →			0.75	0.75	1,046	1,526
	Impervious Cover v	okay				

Minimum RRv

Enter the Soils Data for the site

Soil Group	Acres	S
A		55%
B		40%
C		30%
D	3.18	20%
Total Area	3.183	

Calculate the Minimum RRv

S =	0.20	
Impervious =	0.75	acre
Precipitation	1	in
Rv	0.95	
Minimum RRv	515	ft ³
	0.01	af

NOI QUESTIONS

#	NOI Question	Reported Value	
		cf	af
28	Total Water Quality Volume (WQv) Required	2573	0.059
30	Total RRV Provided	1046	0.024
31	Is RRV Provided \geq WQv Required?	No	
32	Minimum RRV	515	0.012
32a	Is RRV Provided \geq Minimum RRV Required?	Yes	
33a	Total WQv Treated	1526	0.035
34	Sum of Volume Reduced & Treated	2573	0.059
34	Sum of Volume Reduced and Treated	2573	0.059
35	Is Sum RRV Provided and WQv Provided \geq WQv Required?	Yes	

Apply Peak Flow Attenuation			
36	Channel Protection	<i>Cpv</i>	
37	Overbank	<i>Qp</i>	
37	Extreme Flood Control	<i>Qf</i>	
	Are Quantity Control requirements met?		

Planning

Practice	Description	Application
Preservation of Undisturbed Areas	Delineate and place into permanent conservation undisturbed forests, native vegetated areas, riparian corridors, wetlands, and natural terrain.	Considered & Not Applied
Preservation of Buffers	Define, delineate and preserve naturally vegetated buffers along perennial streams, rivers, shorelines and wetlands.	Considered & Not Applied
Reduction of Clearing and Grading	Limit clearing and grading to the minimum amount needed for roads, driveways, foundations, utilities and stormwater management facilities.	Considered & Applied
Locating Development in Less Sensitive Areas	Avoid sensitive resource areas such as floodplains, steep slopes, erodible soils, wetlands, mature forests and critical habitats by locating development to fit the terrain in areas that will create the least impact.	Considered & Applied
Open Space Design	Use clustering, conservation design or open space design to reduce impervious cover, preserve more open space and protect water resources.	Considered & Not Applied
Soil Restoration	Restore the original properties and porosity of the soil by deep till and amendment with compost to reduce the generation of runoff and enhance the runoff reduction performance of post construction practices. <i>Treat compacted areas as impervious cover in WQv Calculation Worksheet and modify curve number as specified in Section 5.1.6, page 5-21</i>	Considered & Not Applied
Roadway Reduction	Minimize roadway widths and lengths to reduce site impervious area	N/A
Sidewalk Reduction	Minimize sidewalk lengths and widths to reduce site impervious area	N/A
Driveway Reduction	Minimize driveway lengths and widths to reduce site impervious area	N/A
Cul-de-sac Reduction	Minimize the number of cul-de-sacs and incorporate landscaped areas to reduce their impervious cover.	N/A
Building Footprint Reduction	Reduce the impervious footprint of residences and commercial buildings by using alternate or taller buildings while maintaining the same floor to area ratio.	N/A
Parking Reduction	Reduce imperviousness on parking lots by eliminating unneeded spaces, providing compact car spaces and efficient parking lanes, minimizing stall dimensions, using porous pavement surfaces in overflow parking areas, and using multi-storied parking decks where appropriate.	N/A

Bioretention Worksheet

(For use on HSG C or D Soils with underdrains)

$$A_f = WQ_v * (d_f) / [k * (h_f + d_f)(t_f)]$$

- | | | |
|--------|---|--|
| A_f | Required Surface Area (ft ²) | The hydraulic conductivity [ft/day], can be varied depending on the properties of the soil media. Some reported conductivity values are: Sand - 3.5 ft/day (City of Austin 1988); Peat - 2.0 ft/day (Galli 1990); Leaf Compost - 8.7 ft/day (Claytor and Schueler, 1996); Bioretention Soil (0.5 ft/day (Claytor & |
| WQ_v | Water Quality Volume (ft ³) | |
| d_f | Depth of the Soil Medium (feet) | k |
| h_f | Average height of water above the planter bed | |
| t_f | Volume Through the Filter Media (days) | |

Design Point:	1						
Enter Site Data For Drainage Area to be Treated by Practice							
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft ³)	Precipitation (in)	Description
1	0.49	0.49	1.00	0.95	1689.77	1.00	Bioretention
Enter Impervious Area Reduced by Disconnection of Rooftops		0.00	100%	0.95	1,690	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						ft ³	
Soil Information							
Soil Group	D						
Soil Infiltration Rate	0.50	in/hour	<i>Design as an infiltration bioretention practice</i>				
Using Underdrains?	Yes	<i>Okay</i>					
Calculate the Minimum Filter Area							
				Value	Units	Notes	
WQv				1,690	ft ³		
Enter Depth of Soil Media			d_f	2.5	ft	2.5-4 ft	
Enter Hydraulic Conductivity			k	0.5	ft/day		
Enter Average Height of Ponding			h_f	0.5	ft	6 inches max.	
Enter Filter Time			t_f	2	days		
Required Filter Area			A_f	1408	ft²		
Determine Actual Bio-Retention Area							
Filter Width	12	ft					
Filter Length	120	ft					
Filter Area	1440	ft ²					
Actual Volume Provided	1728	ft ³					
Determine Runoff Reduction							
Is the Bioretention contributing flow to another practice?				Select Practice			
RRv	691						
RRv applied	691	ft³	<i>This is 40% of the storage provided or WQv whichever is less.</i>				
Volume Treated	999	ft ³	<i>This is the portion of the WQv that is not reduced in the practice.</i>				
Volume Directed	0	ft ³	This volume is directed another practice				
Sizing V	OK	Check to be sure Area provided ≥ Af					

Bioretention Worksheet

(For use on HSG C or D Soils with underdrains)

$$A_f = WQ_v * (d_f) / [k * (h_f + d_f)(t_f)]$$

- | | | |
|--------|---|---|
| A_f | Required Surface Area (ft ²) | The hydraulic conductivity [ft/day], can be varied depending on the properties of the soil media. Some reported conductivity values are: Sand - 3.5 ft/day (City of Austin 1988); Peat - 2.0 ft/day (Galli 1990); Leaf Compost - 8.7 ft/day (Claytor and Schueler, 1996); Bioretention Soil (0.5 ft/day (Claytor & Schueler, 1996)) |
| WQ_v | Water Quality Volume (ft ³) | |
| d_f | Depth of the Soil Medium (feet) | k |
| h_f | Average height of water above the planter bed | |
| t_f | Volume Through the Filter Media (days) | |

Design Point:	1						
Enter Site Data For Drainage Area to be Treated by Practice							
Catchment Number	Total Area (Acres)	Impervious Area (Acres)	Percent Impervious %	Rv	WQv (ft ³)	Precipitation (in)	Description
2	0.26	0.26	1.00	0.95	882.82	1.00	Bioretention
Enter Impervious Area Reduced by Disconnection of Rooftops			100%	0.95	883	<<WQv after adjusting for Disconnected Rooftops	
Enter the portion of the WQv that is not reduced for all practices routed to this practice.						ft ³	
Soil Information							
Soil Group	D						
Soil Infiltration Rate	0.50	in/hour	<i>Design as an infiltration bioretention practice</i>				
Using Underdrains?	Yes	<i>Okay</i>					
Calculate the Minimum Filter Area							
				Value	Units	Notes	
WQv				883	ft ³		
Enter Depth of Soil Media			d_f	2.5	ft	2.5-4 ft	
Enter Hydraulic Conductivity			k	0.5	ft/day		
Enter Average Height of Ponding			h_f	0.5	ft	6 inches max.	
Enter Filter Time			t_f	2	days		
Required Filter Area				A_f	736	ft²	
Determine Actual Bio-Retention Area							
Filter Width	10	ft					
Filter Length	74	ft					
Filter Area	740	ft ²					
Actual Volume Provided	888	ft ³					
Determine Runoff Reduction							
Is the Bioretention contributing flow to another practice?				Select Practice			
RRv	355						
RRv applied	355	ft³		<i>This is 40% of the storage provided or WQv whichever is less.</i>			
Volume Treated	528	ft ³		<i>This is the portion of the WQv that is not reduced in the practice.</i>			
Volume Directed	0	ft ³		<i>This volume is directed another practice</i>			
Sizing V	OK	<i>Check to be sure Area provided ≥ Af</i>					

APPENDIX M

DEEP RIPPING AND DECOMPACTION



New York State
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water

Deep-Ripping and Decompaction

April 2008

New York State
Department of Environmental Conservation

Document Prepared by:

John E. Lacey,
Land Resource Consultant and Environmental Compliance Monitor
(Formerly with the Division of Agricultural Protection and Development Services,
NYS Dept. of Agriculture & Markets)

Alternative Stormwater Management Deep-Ripping and Decompaction

Description

The two-phase practice of 1) “Deep Ripping;” and 2) “Decompaction” (deep subsoiling), of the soil material as a step in the cleanup and restoration/landscaping of a construction site, helps mitigate the physically induced impacts of soil compression; i.e.: soil compaction or the substantial increase in the bulk density of the soil material.

Deep Ripping and Decompaction are key factors which help in restoring soil pore space and permeability for water infiltration. Conversely, the physical actions of cut-and-fill work, land grading, the ongoing movement of construction equipment and the transport of building materials throughout a site alter the architecture and structure of the soil, resulting in: the mixing of layers (horizons) of soil materials, compression of those materials and diminished soil porosity which, if left unchecked, severely impairs the soil’s water holding capacity and vertical drainage (rainfall infiltration), from the surface downward.

In a humid climate region, compaction damage on a site is virtually guaranteed over the duration of a project. Soil in very moist to wet condition when compacted, will have severely reduced permeability. Figure 1 displays the early stage of the deep-ripping phase (Note that all topsoil was stripped prior to construction access, and it remains stockpiled until the next phase – decompaction – is complete). A heavy-duty tractor is pulling a three-shank ripper on the first of several series of incrementally deepening passes through the construction access corridor’s densely compressed subsoil material. Figure 2 illustrates the approximate volumetric composition of a loam surface soil when conditions are good for plant growth, with adequate natural pore space for fluctuating moisture conditions.



Fig. 1. A typical deep ripping phase of this practice, during the first in a series of progressively deeper “rips” through severely compressed subsoil.

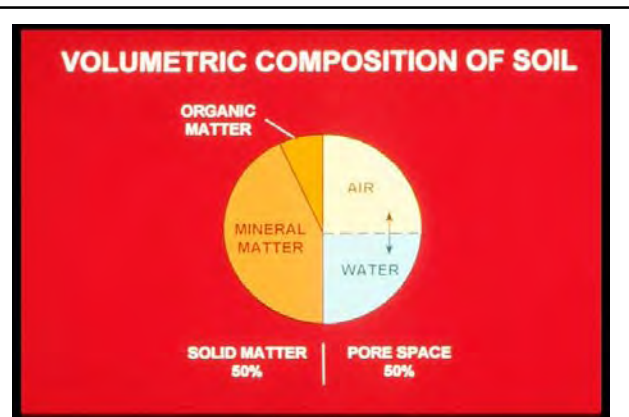


Fig. 2. About 50% of the volume of undisturbed loam surface soil is pore space, when soil is in good condition for plant growth. Brady, 2002.

Recommended Application of Practice

The objective of Deep Ripping and Decompaction is to effectively fracture (vertically and laterally) through the thickness of the physically compressed subsoil material (see Figure 3), restoring soil porosity and permeability and aiding infiltration to help reduce runoff. Together with topsoil stripping, the “two-phase” practice of Deep Ripping and Decompaction first became established as a “best management practice” through ongoing success on commercial farmlands affected by heavy utility construction right-of-way projects (transmission pipelines and large power lines).



Fig. 3. Construction site with significant compaction of the deep basal till subsoil extends 24 inches below this exposed cut-and-fill work surface.

Soil permeability, soil drainage and cropland productivity were restored. For broader construction application, the two-phase practice of Deep Ripping and Decompaction is best adapted to areas impacted with significant soil compaction, on contiguous open portions of large construction sites and inside long, open construction corridors used as temporary access over the duration of construction. Each mitigation area should have minimal above-and-below-ground obstructions for the easy avoidance and maneuvering of a large tractor and ripping/decompacting implements. Conversely, the complete two-phase practice is not recommended in congested or obstructed areas due to the limitations on tractor and implement movement.

Benefits

Aggressive “deep ripping” through the compressed thickness of exposed subsoil before the replacement/respreading of the topsoil layer, followed by “decompaction,” i.e.: “sub-soiling,” through the restored topsoil layer down into the subsoil, offers the following benefits:

- Increases the project (larger size) area’s direct surface infiltration of rainfall by providing the open site’s mitigated soil condition and lowers the demand on concentrated runoff control structures
- Enhances direct groundwater recharge through greater dispersion across and through a broader surface than afforded by some runoff-control structural measures
- Decreases runoff volume generated and provides hydrologic source control
- May be planned for application in feasible open locations either alone or in

conjunction with plans for structural practices (e.g., subsurface drain line or infiltration basin) serving the same or contiguous areas

- Promotes successful long-term revegetation by restoring soil permeability, drainage and water holding capacity for healthy (rather than restricted) root-system development of trees, shrubs and deep rooted ground cover, minimizing plant drowning during wet periods and burnout during dry periods.

Feasibility/Limitations

The effectiveness of Deep Ripping and Decompaction is governed mostly by site factors such as: the original (undisturbed) soil's hydrologic characteristics; the general slope; local weather/timing (soil moisture) for implementation; the space-related freedom of equipment/implement maneuverability (noted above in **Recommended Application of Practice**), and by the proper selection and operation of tractor and implements (explained below in **Design Guidance**). The more notable site-related factors include:

Soil

In the undisturbed condition, each identified soil type comprising a site is grouped into one of four categories of soil hydrology, Hydrologic Soil Group A, B, C or D, determined primarily by a range of characteristics including soil texture, drainage capability when thoroughly wet, and depth to water table. The natural rates of infiltration and transmission of soil-water through the undisturbed soil layers for Group A is "high" with a low runoff potential while soils in Group B are moderate in infiltration and the transmission of soil-water with a moderate runoff potential, depending somewhat on slope. Soils in Group C have slow rates of infiltration and transmission of soil-water and a moderately high runoff potential influenced by soil texture and slope; while soils in Group D have exceptionally slow rates of infiltration and transmission of soil-water, and high runoff potential.

In Figure 4, the profile displays the undisturbed horizons of a soil in Hydrologic Soil Group C and the naturally slow rate of infiltration through the subsoil. The slow rate of infiltration begins immediately below the topsoil horizon (30 cm), due to the limited amount of macro pores, e.g.: natural subsoil fractures, worm holes and root channels. Infiltration after the construction-induced mixing and compression of such subsoil material is virtually absent; but can be restored back to this natural level with the two-phase practice of deep ripping and decompaction, followed by the permanent establishment of an appropriate, deep taproot

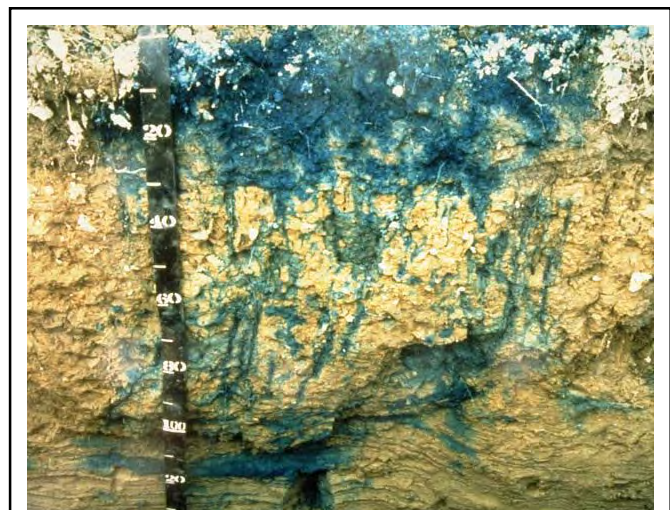


Fig. 4. Profile (in centimeters) displaying the infiltration test result of the natural undisturbed horizons of a soil in Hydrologic Soil Group C.

lawn/ground cover to help maintain the restored subsoil structure. Infiltration after construction-induced mixing and compression of such subsoil material can be notably rehabilitated with the Deep Ripping and Decompaction practice, which prepares the site for the appropriate long-term lawn/ground cover mix including deep taproot plants such as clover, fescue or trefoil, etc. needed for all rehabilitated soils.

Generally, soils in Hydrologic Soil Groups A and B, which respectively may include deep, well-drained, sandy-gravelly materials or deep, moderately well-drained basal till materials, are among the easier ones to restore permeability and infiltration, by deep ripping and decompaction. Among the many different soils in Hydrologic Soil Group C are those unique glacial tills having a natural fragipan zone, beginning about 12 to 18 inches (30 – 45cm), below surface. Although soils in Hydrologic Soil Group C do require a somewhat more carefully applied level of the Deep Ripping and Decompaction practice, it can greatly benefit such affected areas by reducing the runoff and fostering infiltration to a level equal to that of pre-disturbance.

Soils in Hydrologic Soil Group D typically have a permanent high water table close to the surface, influenced by a clay or other highly impervious layer of material. In many locations with clay subsoil material, the bulk density is so naturally high that heavy trafficking has little or no added impact on infiltration; and structural runoff control practices rather than Deep Ripping and Decompaction should be considered.

The information about Hydrologic Soil Groups is merely a general guideline. Site-specific data such as limited depths of cut-and-fill grading with minimal removal or translocation of the inherent subsoil materials (as analyzed in the county soil survey) or, conversely, the excavation and translocation of deeper, unconsolidated substratum or consolidated bedrock materials (unlike the analyzed subsoil horizons' materials referred to in the county soil survey) should always be taken into account.

Sites made up with significant quantities of large rocks, or having a very shallow depth to bedrock, are not conducive to deep ripping and decompaction (subsoiling); and other measures may be more practical.

Slope

The two-phase application of 1) deep ripping and 2) decompaction (deep subsoiling), is most practical on flat, gentle and moderate slopes. In some situations, such as but not limited to temporary construction access corridors, inclusion areas that are moderately steep along a project's otherwise gentle or moderate slope may also be deep ripped and decompacted. For limited instances of moderate steepness on other projects, however, the post-construction land use and the relative alignment of the potential ripping and decompaction work in relation to the lay of the slope should be reviewed for safety and practicality. In broad construction areas predominated by moderately steep or steep slopes, the practice is generally not used.

Local Weather/Timing/Soil Moisture

Effective fracturing of compressed subsoil material from the exposed work surface, laterally and vertically down through the affected zone is achieved only when the soil material is moderately dry to moderately moist. Neither one of the two-phases, deep ripping nor decompaction (deep

subsoiling), can be effectively conducted when the soil material (subsoil or replaced topsoil) is in either a “plastic” or “liquid” state of soil consistency. Pulling the respective implements legs through the soil when it is overly moist only results in the “slicing and smearing” of the material or added “squeezing and compression” instead of the necessary fracturing. Ample drying time is needed for a “rippable” soil condition not merely in the material close to the surface, but throughout the material located down to the bottom of the physically compressed zone of the subsoil.

The “poor man’s Atterberg field test” for soil plasticity is a simple “hand-roll” method used for quick, on-site determination of whether or not the moisture level of the affected soil material is low enough for: effective deep ripping of subsoil; respreading of topsoil in a friable state; and final decompaction (deep subsoiling). Using a sample of soil material obtained from the planned bottom depth of ripping, e.g.: 20 - 24 inches below exposed subsoil surface, the sample is hand rolled between the palms down to a 1/8-inch diameter thread. (Use the same test for stored topsoil material before respreading on the site.) If the respective soil sample crumbles apart in segments no greater than 3/8 of an inch long, by the time it is rolled down to 1/8 inch diameter, it is low enough in moisture for deep ripping (or topsoil replacement), and decompaction. Conversely, as shown in Figure 5, if the rolled sample stretches out in increments greater than 3/8 of an inch long before crumbling, it is in a “plastic” state of soil consistency and is too wet for subsoil ripping (as well as topsoil replacement) and final decompaction.



Fig. 5. Augered from a depth of 19 inches below the surface of the replaced topsoil, this subsoil sample was hand rolled to a 1/8-inch diameter. The test shows the soil at this site stretches out too far without crumbling; it indicates the material is in a plastic state of consistence, too wet for final decompaction (deep subsoiling) at this time.

Design Guidance

Beyond the above-noted site factors, a vital requirement for the effective Deep Ripping and Decompaction (deep subsoiling), is implementing the practice in its distinct, two-phase process:

- 1) Deep rip the affected thickness of exposed subsoil material (see Figure 10 and 11), aggressively fracturing it before the protected topsoil is reapplied on the site (see Figure 12); and
- 2) Decompact (deep subsoil), simultaneously through the restored topsoil layer and the upper half of the affected subsoil (Figure 13). The second phase, “decompaction,” mitigates the partial recompaction which occurs during the heavy process of topsoil spreading/grading. Prior to deep ripping and decompacting the site, all construction activity, including construction equipment and material storage, site cleanup and trafficking (Figure 14), should be finished; and the site closed off to further disturbance. Likewise, once the practice is underway and the area’s soil permeability and

rainfall infiltration are being restored, a policy limiting all further traffic to permanent travel lanes is maintained.

The other critical elements, outlined below, are: using the proper implements (deep, heavy-duty rippers and subsoilers), and ample pulling-power equipment (tractors); and conducting the practice at the appropriate speed, depth and pattern(s) of movement.

Note that an appropriate plan for the separate practice of establishing a healthy perennial ground cover, with deep rooting to help maintain the restored soil structure, should be developed in advance. This may require the assistance of an agronomist or landscape horticulturist.

Implements

Avoid the use of all undersize implements. The small-to-medium, light-duty tool will, at best, only “scarify” the uppermost surface portion of the mass of compacted subsoil material. The term “chisel plow” is commonly but incorrectly applied to a broad range of implements. While a few may be adapted for the moderate subsoiling of non-impacted soils, the majority are less durable and used for only lighter land-fitting (see Figure 6).



Fig. 6. A light duty chisel implement, not adequate for either the deep ripping or decompaction (deep subsoiling) phase.



Fig. 7. One of several variations of an agricultural ripper. This unit has long, rugged shanks mounted on a steel V-frame for deep, aggressive fracturing through Phase 1.

Use a “heavy duty” agricultural-grade, deep ripper (see Figures 7,9,10 and 11) for the first phase: the lateral and vertical fracturing of the mass of exposed and compressed subsoil, down and through, to the bottom of impact, prior to the replacement of the topsoil layer. (Any oversize rocks which are uplifted to the subsoil surface during the deep ripping phase are picked and removed.) Like the heavy-duty class of implement for the first phase, the decompaction (deep subsoiling) of Phase 2 is conducted with the heavy-duty version of the deep subsoiler. More preferable is the angled-leg variety of deep subsoiler (shown in Figures 8 and 13). It minimizes the inversion of the subsoil and topsoil layers while laterally and vertically fracturing the upper half of the previously ripped subsoil layer and all of the topsoil layer by delivering a momentary, wave-like “lifting and shattering” action up through the soil layers as it is pulled.

Pulling-Power of Equipment

Use the following rule of thumb for tractor horsepower (hp) whenever deep ripping and decompacting a significantly impacted site: For both types of implement, have at least 40 hp of tractor pull available for each mounted shank/ leg.

Using the examples of a 3-shank and a 5-shank implement, the respective tractors should have 120 and 200 hp available for fracturing down to the final depth of 20-to-24 inches per phase. Final depth for the deep ripping in Phase 1 is achieved incrementally by a progressive series of passes (see Depth and Patterns of Movement, below); while for Phase 2, the full operating depth of the deep subsoiler is applied from the beginning.

The operating speed for pulling both types of implement should not exceed 2 to 3 mph. At this slow and managed rate of operating speed, maximum functional performance is sustained by the tractor and the implement performing the soil fracturing. Referring to Figure 8, the implement is the 6-leg version of the deep angled-leg subsoiler. Its two outside legs are “chained up” so that only four legs will be engaged (at the maximum depth), requiring no less than 160 hp, (rather than 240 hp) of pull. The 4-wheel drive, articulated-frame tractor in Figure 8 is 174 hp. It will be decompacting this unobstructed, former construction access area simultaneously through 11 inches of replaced topsoil and the upper 12 inches of the previously deep-ripped subsoil. In constricted areas of Phase 1) Deep Ripping, a medium-size tractor with adequate hp, such as the one in Figure 9 pulling a 3-shank deep ripper, may be more maneuverable.

Some industrial-grade variations of ripping implements are attached to power graders and bulldozers. Although highly durable, they are generally not recommended. Typically, the shanks or “teeth” of these rippers are too short and stout; and they are mounted too far apart to achieve the well-distributed type of lateral and vertical fracturing of the soil materials necessary to restore soil permeability and infiltration. In addition, the power graders and bulldozers, as pullers, are far less maneuverable for turns and patterns than the tractor.



Fig. 8. A deep, angled-leg subsoiler, ideal for Phase 2 decompaction of after the topsoil layer is graded on top of the ripped subsoil.



Fig. 9. This medium tractor is pulling a 3-shank deep ripper. The severely compacted construction access corridor is narrow, and the 120 hp tractor is more maneuverable for Phase 1 deep ripping (subsoil fracturing), here.

Depth and Patterns of Movement

As previously noted both Phase 1 Deep Ripping through significantly compressed, exposed subsoil and Phase 2 Decompaction (deep subsoiling) through the replaced topsoil and upper subsoil need to be performed at maximum capable depth of each implement. With an implement's guide wheels attached, some have a "normal" maximum operating depth of 18 inches, while others may go deeper. In many situations, however, the tractor/implement operator must first remove the guide wheels and other non essential elements from the implement. This adapts the ripper or the deep subsoiler for skillful pulling with its frame only a few inches above surface, while the shanks or legs, fracture the soil material 20-to-24 inches deep.

There may be construction sites where the depth of the exposed subsoil's compression is moderate, e.g.: 12 inches, rather than deep. This can be verified by using a $\frac{3}{4}$ inch cone penetrometer and a shovel to test the subsoil for its level of compaction, incrementally, every three inches of increasing depth. Once the full thickness of the subsoil's compacted zone is finally "pieced" and there is a significant drop in the psi measurements of the soil penetrometer, the depth/thickness of compaction is determined. This is repeated at several representative locations of the construction site. If the thickness of the site's subsoil compaction is verified as, for example, ten inches, then the Phase 1 Deep Ripping can be correspondingly reduced to the implement's minimum operable depth of 12 inches. However, the Phase 2 simultaneous Decompaction (subsoiling) of an 11 inch thick layer of replaced topsoil and the upper subsoil should run at the subsoiling implements full operating depth.



Fig. 10. An early pass with a 3-shank deep ripper penetrating only 8 inches into this worksite's severely compressed subsoil.



Fig. 11. A repeat run of the 3-shank ripper along the same patterned pass area as Fig. 9; here, incrementally reaching 18 of the needed 22 inches of subsoil fracture.

Typically, three separate series (patterns) are used for both the Phase 1 Deep Ripping and the Phase 2 Decompaction on significantly compacted sites. For Phase 1, each series begins with a moderate depth of rip and, by repeat-pass, continues until full depth is reached. Phase 2 applies the full depth of Decompaction (subsoiling), from the beginning.

Every separate series (pattern) consists of parallel, forward-and-return runs, with each progressive

pass of the implement's legs or shanks evenly staggered between those from the previous pass. This compensates for the shank or leg-spacing on the implement, e.g., with 24-to-30 inches between each shank or leg. The staggered return pass ensures lateral and vertical fracturing actuated every 12 to 15 inches across the densely compressed soil mass.

Large, Unobstructed Areas

For larger easy areas, use the standard patterns of movement:

- The first series (pattern) of passes is applied lengthwise, parallel with the longest spread of the site; gradually progressing across the site's width, with each successive pass.
- The second series runs obliquely, crossing the first series at an angle of about 45 degrees.
- The third series runs at right angle (or 90 degrees), to the first series to complete the fracturing and shattering on severely compacted sites, and avoid leaving large unbroken blocks of compressed soil material. (In certain instances, the third series may be optional, depending on how thoroughly the first two series loosen the material and eliminate large chunks/blocks of material as verified by tests with a 3/4-inch cone penetrometer.)



Fig. 12. Moderately dry topsoil is being replaced on the affected site now that Phase 1 deep ripping of the compressed subsoil is complete.



Fig. 13. The same deep, angled-leg subsoiler shown in Fig. 7 is engaged at maximum depth for Phase 2, decompaction (deep soiling), of the replaced topsoil and the upper subsoil materials.

Corridors

In long corridors of limited width and less maneuverability than larger sites, e.g.: along compacted areas used as temporary construction access, a modified series of pattern passes are used.

- First, apply the same initial lengthwise, parallel series of passes described above.

- A second series of passes makes a broad “S” shaped pattern of rips, continually and gradually alternating the “S” curves between opposite edges inside the compacted corridor.
- The third and final series again uses the broad, alternating S pattern, but it is “flip-flopped” to continually cross the previous S pattern along the corridor’s centerline. This final series of the S pattern curves back along the edge areas skipped by the second series.

Maintenance and Cost

Once the two-phase practice of Deep Ripping and Decompaction is completed, two items are essential for maintaining a site’s soil porosity and permeability for infiltration. They are: planting and maintaining the appropriate ground cover with deep roots to maintain the soil structure (see Figure 15); and keeping the site free of traffic or other weight loads.

Note that site-specific choice of an appropriate vegetative ground-cover seed mix, including the proper seeding ratio of one or more perennial species with a deep taproot system and the proper amount of lime and soil nutrients (fertilizer mix) adapted to the soil-needs, are basic to the final practice of landscaping, i.e: surface tillage, seeding/planting/fertilizing and culti-packing or mulching is applied. The "maintenance" of an effectively deep-ripped and decompacted area is generally limited to the successful perennial (long-term) landscape ground cover; as long as no weight-bearing force of soil compaction is applied.



Fig. 14. The severely compacted soil of a temporary construction yard used daily by heavy equipment for four months; shown before deep ripping, topsoil replacement, and decompaction.



Fig. 15. The same site as Fig. 14 after deep ripping of the exposed subsoil, topsoil replacement, decompaction through the topsoil and upper subsoil and final surface tillage and revegetation to maintain soil permeability and infiltration.

The Deep Ripping and Decompaction practice is, by necessity, more extensive than periodic subsoiling of farmland. The cost of deep ripping and decompacting (deep subsoiling), will vary according to the depth and severity of soil-material compression and the relative amount of tractor and implement time that is required. In some instances, depending on open maneuverability, two-to-three acres of compacted project area may be deep-ripped in one day. In other situations of more severe compaction and - or less maneuverability, as little as one acre may be fully ripped in a day. Generally, if the Phase 1) Deep Ripping is fully effective, the Phase 2) Decompaction should be completed in $2/3$ to $3/4$ of the time required for Phase 1.

Using the example of two acres of Phase 1) Deep Ripping in one day, at \$1800 per day, the net cost is \$900 per acre. If the Phase 2) Decompacting or deep subsoiling takes $3/4$ the time as Phase 1, it costs \$675 per acre for a combined total of \$1575 per acre to complete the practice (these figures do not include the cost of the separate practice of topsoil stripping and replacement). Due to the many variables, it must be recognized that cost will be determined by the specific conditions or constraints of the site and the availability of proper equipment.

Resources

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- Union Gas Limited, Ontario, Canada. 1984. *Rehabilitation of Agricultural Lands, Dawn-Kerwood Loop Pipeline; Technical Report*. Ecological Services for Planning, Ltd.; Robinson, Merritt & Devries, Ltd. and Smith, Hoffman Associates, Ltd.
- US Department of Agriculture in cooperation with Cornell University Agricultural Experiment Station. Various years. *Soil Survey of (various names) County, New York*. USDA.

Internet Access:

- Examples of implements:
V-Rippers. Access by internet search of *John Deere Ag -New Equipment for 915* (larger-frame model) *V-Rippe*; and, *for 913* (smaller-frame model) *V-Ripper*. Deep, angled-leg subsoiler. Access by internet search of: *Bigham Brothers Shear Bolt Paratill-Subsoiler*.
http://salesmanual.deere.com/sales/salesmanual/en_NA/primary_tillage/2008/feature/rippers/915v_pattern_frame.html?sbu=ag&link=prodcats Last visited March 08.
- Soils data of USDA Natural Resources Conservation Service. *NRCS Web Soil Survey*. <http://websoilsurvey.nrcs.usda.gov/app/> and *USDA-NRCS Official Soil Series Descriptions; View by Name*. <http://ortho.ftw.nrcs.usda.gov/cgi-bin/osd/osdname.cgi> . Last visited Jan. 08.
- Soil penetrometer information. Access by internet searches of: *Diagnosing Soil Compaction using a Penetrometer (soil compaction tester)*, *PSU Extension*; as well as *Dickey-john Soil Compaction Tester*.
<http://www.dickey-johnproducts.com/pdf/SoilCompactionTest.pdf> and <http://cropsoil.psu.edu/Extension/Facts/uc178pdf> Last visited Sept. 07

APPENDIX N

NYSOPRHP LETTER



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

March 28, 2023

David Young
Project Manager
WMB Geologic & Engineering Services, DPC
284 Route 17C
Waverly, NY 18810

Re: SEQRA
Commercial Building Construction
7174 Alleghany Rd, Basom, NY 14013
23PR02390

Dear David Young:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

rev: S. Snyder