

**MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION**  
**STAFF REPORT**

<b>Address:</b>	23312 Frederick Road, Clarksburg	<b>Meeting Date:</b>	12/20/2023
<b>Resource:</b>	Contributing Resource <b>Clarksburg Historic District</b>	<b>Report Date:</b>	12/13/2023
<b>Applicant:</b>	JASAI Properties (Ben Dorsey, Architect)	<b>Public Notice:</b>	11/1/2023
<b>Review:</b>	HAWP	<b>Tax Credit:</b>	No
		<b>Staff:</b>	John Liebertz

**Permit Number:** 1048193

**PROPOSAL:** Demolition of outbuildings and construction of new daycare center, including tree removals, grading, new hardscape and other site alterations.

**STAFF RECOMMENDATION**

Staff recommends that the Historic Preservation Commission (HPC) **approve with two (2) conditions** the HAWP application with final review and approval of all details delegated to staff:

1. The applicant shall submit drawings and specifications for the “waste and recycling enclosure” and “pad mounted transformer” noted on Site Plan C2.01.
2. The applicant shall setup a pre-construction meeting with Historic Preservation staff to review material sample boards and discuss any modifications to the approved plans. This meeting shall occur prior to approval of the building permit.

**ARCHITECTURAL DESCRIPTION**

**SIGNIFICANCE:** Contributing Resource within the Historic District  
**STYLE:** Queen Anne  
**DATE:** Ca. 1891-1910



*Figure 1: The subject property (noted with the yellow star) is located near the northwest corner of the intersection of Frederick Road and Stringtown Road. The red outline is the boundary of the Clarksburg Historic District.*

## **PROPOSAL**

The applicants propose to demolish a non-historic outbuilding and construct a new, one-story, 13,500 sq. ft. daycare/preschool center, playground, pedestrian access from Stringtown Road, and parking lot within the environmental setting of the Clarksburg Historic District. Minimal grading would occur to accommodate the new building, playgrounds, pedestrian ramps, circulation networks, and storm-water management.

## **APPLICABLE GUIDELINES**

The Historic Preservation Office and Historic Preservation Commission (HPC) consult several documents when reviewing alterations and new construction within the Clarksburg Historic District. These documents include the historic preservation review guidelines in the approved and adopted amendment for the *Vision of Clarksburg: A Long-Range Preservation Plan (Vision)*, *Montgomery County Code Chapter 24A (Chapter 24A)*, and the *Secretary of the Interior's Standards for Rehabilitation (Standards)*. The pertinent information is outlined below.

### ***Montgomery County Code, Chapter 24A-8***

The following guidance which pertains to this project are as follows:

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:
  - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
  - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter;
  - (3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or
  - (4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or
  - (5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or
  - (6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.
- (c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.

- (d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

### ***Secretary of the Interior's Standards for Rehabilitation***

The Secretary of the Interior defines rehabilitation as “the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.” The applicable *Standards* are as follows:

2. The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces and spatial relationships that characterize a property will be avoided.
5. Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.
9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

### **STAFF DISCUSSION**

#### *Property History*

The subject property is a c. 1891-1900 Queen Anne-style Contributing Resource within the Clarksburg Historic District. The house was built by Clarksburg physician Dr. James Deetz and his wife Sarah. The property is known as Hammer Hill, which was the tract name given to the land in 1752. The property is located on the west side of Frederick Road (MD 355) at the southern end of the Clarksburg Historic District, where Frederick Road (MD 355) intersects with Stringtown Road. The house is located on top of a knoll with a deep setback from Frederick Road, and it is accessed via a long driveway. The existing driveway is paved and is at least 20' wide, making it compliant with current fire department requirements. There is an existing, non-original outbuilding with red siding located to the north (right side) of the historic house. The owner of Hammer Hill recently undertook comprehensive rehabilitation and restoration of the house, and it is utilized as a doctor's office. The owner is the applicant for the newly proposed daycare center.

#### *Preliminary Consultation #1 – January 6, 2021*

The applicants applied for a Preliminary Consultation with the Historic Preservation Commission (HPC) in January 2021. The commission was generally supportive of the applicants' project, but they provided recommendations to improve the compatibility of the proposal with the subject property and surrounding historic district. The HPC supported the: 1) building, playground, and parking lot locations; 2) size and massing of the proposed building; 3) “concept two” that framed the historic house; and 4) use of

traditional or substitute materials. The board requested further study of and simplification to the overall design of the daycare center and fence.<sup>1</sup>

*Preliminary Consultation #2 – June 8, 2022*

The applicant returned for a second Preliminary Consultation with the HPC in June 2022. The majority of the commission were supportive of the revised application as it responded to the commission’s comments from the previous preliminary review. At the hearing, several commissioners advocated for minimizing the proposed retaining walls and ramps at the southern extent of the property but recognized the need for pedestrian access from Stringtown Road. The commissioners indicated support for the proposal with or without the retaining walls as shown.<sup>2</sup>

*Proposal – Demolition of a Non-Contributing Resource*

Staff finds that the demolition of a non-contributing outbuilding meets the applicable guidelines and recommends approval. Historic Preservation staff inspected the subject outbuilding and determined that its date of construction fell outside the period of significance for the house and historic district. Therefore, its removal would have no adverse effect.

*Proposal – Location of New Daycare Center*

Staff finds that the location of the proposed building meets the applicable guidelines and recommends approval. Planning and Historic Preservation staff recommended the proposed location as its consistent with the setback of most buildings within the historic district and existing development on Stringtown Road. The building could not be located entirely in the undeveloped lot to the west due to impervious surface limitations. The proposal maintains the character defining building pattern of the streetscape and historic district. While the new center would serve as a backdrop to the historic house when viewed from Frederick Road, the form, scale, and design of the proposed center allows the historic building to retain its primacy within the environmental setting.

*Proposal – Massing, Scale, and Form*

Staff finds that the proposed massing, scale, and form of the building meets the applicable guidelines and recommends approval. The proposed one-story is compatible in scale and proportion to the historic house and surrounding historic district. The new, low-scale building appears secondary to the historic house since its ridge remains lower than the ridge of the historic house. In addition, the three-part form (two gable roof sections flanking a central flat roof section) permits visibility of and frames the historic house when looking east towards Frederick Road. Therefore, the massing, scale, and form of the proposal successfully mitigates adverse effects to the individual resource and the surrounding streetscape.

*Proposal – Design and Materials*

Staff finds that the design of the proposed building meets the applicable guidelines and recommends approval. The contemporary style references nineteenth century agricultural outbuildings and coalesces with the character defining features of the historic district. The screen wall—a major component of the design—increases the building’s opacity and diminishes the building’s impact to the surrounding

<sup>1</sup> For more information, see the staff report and the audio/video for the hearing: <https://montgomeryplanning.org/wp-content/uploads/2020/12/II.B-23310-Frederick-Road-Clarksburg.pdf> and [http://mncppc.granicus.com/MediaPlayer.php?publish\\_id=e8fc4fde-5106-11eb-920e-0050569183fa](http://mncppc.granicus.com/MediaPlayer.php?publish_id=e8fc4fde-5106-11eb-920e-0050569183fa).

<sup>2</sup> For more information, see the staff report and audio/video for the hearing: <https://montgomeryplanning.org/wp-content/uploads/2022/06/II.C-23310-Frederick-Road-Clarksburg-2nd-Preliminary-Consultation.pdf> and [http://mncppc.granicus.com/MediaPlayer.php?publish\\_id=ae30da48-e7fa-11ec-9ad4-0050569183fa](http://mncppc.granicus.com/MediaPlayer.php?publish_id=ae30da48-e7fa-11ec-9ad4-0050569183fa).

landscape. The architect's integration of the mechanical equipment within the building envelope further limits the adverse effect associated with rooftop mechanical in rural historic districts. The units would be set within the western slopes of the gable roofs, screened with aluminum louvers, and visible only from the west on Stringtown Road.

Staff finds that the materials of the proposed building meets the applicable guidelines and recommends approval. The compatibility of the proposed building is augmented by the use of traditional building materials (wood siding, wood-clad frame and screening, and standing seam metal roof) and contemporary materials utilized in traditional ways. The HPC regularly approves the use of substitute materials on non-historic resources within the Clarksburg Historic District. This includes painted cementitious fiberboard siding, painted cementitious fiberboard trim, painted polyvinyl chloride trim, composite windows, aluminum-clad doors, and TPO roofing systems.

*Proposal – Site Elements (Playgrounds, Retaining Walls, Hardscape, Stormwater Management Facilities, and Other Features)*

Staff finds that the proposed playgrounds meet the applicable guidelines and recommends approval. The HPC limited their review of the playgrounds to their location and fencing. The playground (and its associated equipment) would be located to the west of the new building and be obscured from Frederick Road. Therefore, there would be negligible adverse effects to the individual resource or the surrounding historic district.

Staff finds the proposed fencing to meet the applicable guidelines and recommends approval with conditions. The applicant selected a compatible flat-top, metal fence with a simple profile. The fence would be 6' tall around the playgrounds and the perimeter of the building, and 3.5' tall along the retaining wall/ramp.

Staff finds that the proposed retaining walls and switchbacks meet the applicable guidelines and recommends approval. At the previous preliminary consultation, the HPC requested that the applicant minimize the retaining walls and switchbacks on the southern extent of the property to the greatest possible extent. The commission, however, recognized the accessibility requirements from Stringtown Road and supported the proposal as submitted. The switchbacks would be constructed with a series of high-aggregate concrete retaining walls that range from 3' to 5' tall. The material of the walls and recessed wall lights are compatible with the individual resource and the surrounding district.

Staff finds that the proposed driveways, parking lots, and sidewalk/pathways meet the applicable guidelines and recommends approval. The applicant proposes to install an asphalt paved driveway and three asphalt paved parking lots. A 5'-wide concrete sidewalk encompasses the new building, provides access to the parking lots, and connects the property to the Clarksburg Elementary School to the west. Towards the eastern extent of the property, a 6'-wide concrete sidewalk runs generally parallel to Frederick Road. These walkways would not adversely affect the historic resource or the surrounding district.

Staff finds that the proposed stormwater management facilities meet the applicable guidelines and recommends approval. The four micro-bioretenion facilities and their associated plantings would have no adverse effect to the historic resource or the surrounding historic district.

Staff requests additional information on the "waste and recycling enclosure" and "pad mounted transformer" noted on Site Plan C2.01. The applicant shall submit drawings and specifications for these elements which will be reviewed and approved by staff.

*Proposal – Site Lighting*

Staff finds that the proposed lighting meets the applicable guidelines and recommends approval. The applicant proposes to install: 1) six (6) freestanding streetlights with luminaries mounted on 20'tall poles above the parking areas; 2) five (5) freestanding streetlights with luminaries mounted on 20'tall poles above the playground areas; and 3) twenty-one (21) wall mounted luminaries mounted on the proposed building. The design and material of these light fixtures would have negligible adverse effect to the historic house and surrounding historic district.

*Proposal – Removal of Trees*

Staff finds that the removal of the trees meets the applicable guidelines and recommends approval. The applicant proposes to remove 14 trees in the Clarksburg Historic District of the following species: Chinese Elm, Ailanthus, Hickory, Walnut, White Pine, Crape Myrtle, Golden Rain Tree, White Mulberry, Black Locust, Mulberry, and Sweet Cherry. The trees are of varying health from dead to good condition, but none of the trees are designated as specimen trees. The applicant proposes to plant 18 trees for mitigation of the following species: Common Hackberry, White Oak, American Beech, Tupelo and Red Oak.

After full and fair consideration of the applicant's submission, staff finds the proposal, as modified by the condition, consistent with the Criteria for Issuance in Chapter 24A-8(b), (1), (2), (c), and (d), having found the proposal is consistent with *the Secretary of the Interior's Standards for Rehabilitation #2, #5, #9, and #10*, and the *Vision of Clarksburg: A Long-Range Preservation Plan (Vision)*, as outlined above.

**STAFF RECOMMENDATION**

Staff recommends that the Commission **approve with two (2) conditions** the HAWP application with final approval delegated to staff:

1. The applicant shall submit drawing and specifications for the "waste and recycling enclosure" and "pad mounted transformer" noted on Site Plan C2.01.
2. The applicant shall setup a pre-construction meeting with Historic Preservation staff to review material sample boards and discuss any modifications to the approved plans. This meeting shall occur prior to approval of the building permit.

under the Criteria for Issuance in Chapter 24A-8(b), (1), (2), (c), and (d), having found that the proposal, as modified by the condition, is consistent with *Vision of Clarksburg: A Long-Range Preservation Plan (Vision)*, and therefore will not substantially alter the exterior features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and with the *Secretary of the Interior's Standards for Rehabilitation #2, #5, #9, and #10*.

and with the general condition that the applicant shall present an electronic set of drawings, if applicable, to Historic Preservation Commission (HPC) staff for review and stamping prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make any alterations to the approved plans. Once the work is completed the applicant will contact the staff person assigned to this application at 301-563-3400 or [john.liebertz@montgomeryplanning.org](mailto:john.liebertz@montgomeryplanning.org) to schedule a follow-up site visit.



**APPLICATION FOR  
HISTORIC AREA WORK PERMIT**  
HISTORIC PRESERVATION COMMISSION  
301.563.3400

FOR STAFF ONLY:  
HAWP# 1048193  
DATE ASSIGNED \_\_\_\_\_

**APPLICANT:**

Name: JAISAI Properties  
Address: 4007 Broadstone Street  
Daytime Phone: 240-423-3615

E-mail: pbolarum@gmail.com  
City: Frederick Zip: 21704  
Tax Account No.: 02-00021673

**AGENT/CONTACT (if applicable):**

Name: Ben Dorsey/SKA Studio  
Address: 47 Randall Street Suite 2  
Daytime Phone: 443-569-6203

E-mail: bdorsey@skastudio.com  
City: Annapolis Zip: 21401  
Contractor Registration No.: \_\_\_\_\_

**LOCATION OF BUILDING/PREMISE:** MIHP # of Historic Property 13-10-11

Is the Property Located within an Historic District? Yes/District Name Clarksburg  
No/Individual Site Name \_\_\_\_\_

Is there an Historic Preservation/Land Trust/Environmental Easement on the Property? If YES, include a map of the easement, and documentation from the Easement Holder supporting this application.

Are other Planning and/or Hearing Examiner Approvals /Reviews Required as part of this Application? (Conditional Use, Variance, Record Plat, etc.?) If YES, include information on these reviews as supplemental information.

Building Number: 23312 Street: Frederick Road  
Town/City: Clarksburg Nearest Cross Street: Stringtown Road  
Clarksburg Highlands  
Lot: \_\_\_\_\_ Block: \_\_\_\_\_ Subdivision: \_\_\_\_\_ Parcel: 311

**TYPE OF WORK PROPOSED: See the checklist on Page 4 to verify that all supporting items for proposed work are submitted with this application. Incomplete Applications will not be accepted for review. Check all that apply:**

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> New Construction   | <input type="checkbox"/> Deck/Porch                     | <input type="checkbox"/> Shed/Garage/Accessory Structure  |
| <input type="checkbox"/> Addition                      | <input checked="" type="checkbox"/> Fence               | <input type="checkbox"/> Solar                            |
| <input checked="" type="checkbox"/> Demolition         | <input checked="" type="checkbox"/> Hardscape/Landscape | <input checked="" type="checkbox"/> Tree removal/planting |
| <input checked="" type="checkbox"/> Grading/Excavation | <input type="checkbox"/> Roof                           | <input type="checkbox"/> Window/Door                      |
|  |   | <input type="checkbox"/> Other: _____                     |

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

\_\_\_\_\_  
Signature of owner or authorized agent

\_\_\_\_\_  
Date 10.25.2023



Adjacent and Confronting Properties:

Clarksburg, MD 20871

23310 Frederick Road

23314 Frederick Road

23311 Frederick Road

23315 Frederick Road

23200 Stringtown Road

23100 Stringtown Road

23330 Frederick Road

23321 Frederick Road

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

The project site spans two lots, one protected by the East Environmental Overlay Zone, and the other the site of Hammer Hill, a contributing resource of the Clarksburg Historic District. Hammer Hill stands prominently on a knoll facing Frederick Road where the existing drive leads up to the historic building. While built as a private residence, it currently serves as a medical office. Just beyond the existing parking lot, stands a small outbuilding clad in red siding. The site has large areas of open space, but there are some mature trees scattered around the existing buildings. Hammer Hill is significant to the Clarksburg Historic District because it departs from the earlier vernacular traditions of the town, leading to the belief that it was professionally designed. Its prominence on the site, particular in its relationship to Frederick Road is important in retaining the historic character of the site and of the district.

Description of Work Proposed: Please give an overview of the work to be undertaken:

Following favorable feedback during the second HPC preliminary hearing on 06.08.2022, the Applicant is issuing the HAWP for a new daycare/preschool center to be located to the rear of Hammer Hill, a contributing element to the Clarksburg Historic District. The daycare/preschool center will be oriented towards Stringtown Road in a nonhistorical area. No work is proposed to the Hammer Hill House and within the primary viewshed from the historic house to the historic district. Contemporary design is proposed for the daycare/preschool center that will be compatible in scale, proportion and materials with the main house and with the architectural character of the historic district. Factors considered in the development of the proposed design scenarios submitted for discussion include the character defining features of the historic site, HPC design guidelines, and the standardized architectural program developed by The Learning Experience (Daycare Operator).

The work proposed for the site includes all steps necessary to construct a new daycare/preschool center with adequate parking accessible from the existing Hammer Hill driveway, pedestrian access from Stringtown Rd., and a secure playground. The proposed plan will require the demolition of an existing outbuilding and the removal of several trees. Minimal grading of the site will occur for the new pedestrian ramp from Stringtown Road, parking areas and pedestrian circulation, storm-water management, the building footprint and adjacent playground area.

The design scenario for the one-story, 13,500 sf, daycare/preschool center has been developed to reference, but not duplicate, the designs of secondary, functional support buildings typical of the period of significance of the Clarksburg Historic District. Design strategies incorporated into the scenario include low scale, staggered massing, integration of mechanicals within the building envelope, use of screen walls, and use of materials.

The site constraints limit the location of the daycare/preschool building to the west of the historic house. As such, the daycare/preschool building becomes a back drop to the Hammer Hill house when viewed from Frederick Rd. The proposed scenario for the daycare/preschool building design is intended to: 1. visually limit overall scale and massing; 2. not introduce roof forms and architectural elements that will visually compete with the architectural elements of the historic building; 3) be of an informal architecture that will read as secondary to the architecture of the historic building.

Work Item 1: Demolition

Description of Current Condition:

Small outbuilding clad in red siding, white trim, and a standing seam metal roof. Mature growth deciduous trees around the existing parking lot.

Proposed Work:

Demolish the existing outbuilding to provide space for the new daycare center. Remove two (2) trees from the proposed parking footprint.

Work Item 2: Grading and Sitework

Description of Current Condition:

The affected area of the site has a steep grade coming up from Stringtown Road that then flattens to a level, mildly sloping open space, where the parking and daycare center will be constructed.

Proposed Work:

Grading of the topography to create a new pedestrian ramp from Stringtown Road, adequate parking, and storm-water management systems. Also, grading for the building slab and playground equipment area.

Work Item 3: New Construction

Description of Current Condition:

Hammer Hill stands on a knoll facing northeast, with prominent views from Frederick Road, where the existing drive leads up to the Queen Anne Style building, a six (6) space parking area and outbuilding beyond. The site has large areas of open space, with a number of mature trees scattered around the existing buildings.

Proposed Work:

Construction of the new daycare facility, playground area with perimeter fencing, parking, and pedestrian ramp and pathways:

Refer to Description of Work Proposed above for additional information.

**HISTORIC AREA WORK PERMIT  
CHECKLIST OF  
APPLICATION REQUIREMENTS**

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Excavation/ Landscaping	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*



**CIVIL ENGINEERING**  
**LAND SURVEYING**  
**LANDSCAPE ARCHITECTURE**  
**LAND PLANNING**

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 Montgomery Village, MD 20886  
 Phone: 301.670.0940  
 www.mhga.com

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**VICINITY MAP**  
 SCALE 1" = 2,000'



**Abbreviation:**

- AC = Air Conditioner
- BEI = Benchmark
- BLDG = Building
- CM = Concrete
- CNC = Concrete
- CCAS = Concrete Curb & Gutter
- EM = Electric Meter
- EMH = Electric Meter Hole
- EMW = Electric Meter Work (Miss Utility)
- FF = Finished Floor
- FI = Fire Hydrant
- GM = Gas Meter
- GRV = Gas Valve
- IPF = Iron Pipe Found
- IPF = Iron Pipe with Cap
- IPF = Iron Pipe Found
- LP = Light Pole
- MIS = Manhole (Unidentified)
- MIS (M) = Measured
- OPF = Open Pipe Found
- PAV = Pavement
- PCM = Painted Centerline Markings
- PF = Paved Pipe Found
- PF = Paved Pipe Found
- RCC = Reinforced Concrete
- RS = Record
- SD = Storm Drain
- SDM = Storm Drain Manhole
- SMH = Sewer Manhole
- SPM = Sewer Pipe Mark (Miss Utility)
- TEL = Telephone
- USE = Under Ground Electric
- WPM = Water Pipe Mark (Miss Utility)

**Legend:**

- Bench/Seat
- Bolter/Fence Post
- Cable TV Box
- Clearcut
- Communications Cable
- Concrete
- Electric Cable
- Gas Valve
- Electric Manhole
- Electric Meter
- Entrance
- Fence, Wood
- Fire Department Connection
- Flood Light
- Gas Manhole
- Gas Meter
- Gas Pipeline
- Gas Post
- Gas Valve
- Guy Wire
- Hand Box (Electric)
- Handicap Parking
- Space/Ramp
- HVAC Units
- Iron Pipe Found
- Light/Signal Pole
- Manhole (Unidentified)
- Over Head Wires
- Painting Spikes (Count)
- Telephone Junction Box
- Tree/Structure
- Sewer Manhole
- Sewer Pipeline
- Sign
- Storm Drain Grate
- Storm Drain Manhole
- Storm Drain Pipeline
- Telephone Manhole
- Traffic Signal Cabinet
- Traffic Signal Pole
- Transformer
- Utility Pole
- Water Manhole
- Water Meter
- Water Pipeline
- Water Valve

**OWNER/APPLICANT:**  
 JAISAI PROPERTIES, LLC  
 4007 BROADSTONE ST.  
 FREDERICK, MD 21704  
 PHONE: (240) 423-3615  
 CONTACT: DR. PRAVEEN BOLARUM  
 EMAIL: PBOARUM@GMAIL.COM

**CIVIL ENGINEER & LANDSCAPE ARCHITECT:**  
 MACRIS, HENDRICKS & GLASCOCK, P.A.  
 9220 WIGHTMAN ROAD, SUITE 120  
 MONTGOMERY VILLAGE, MD 20886  
 PHONE: (301) 670-0940  
 CONTACT: DYLAN MACRO, CDT  
 EMAIL: DMAcro@MHGPA.COM

**ARCHITECT:**  
 SKA STUDIO  
 47 RANDALL ST., SUITE 2  
 ANNAPOLIS, MD 21401  
 PHONE: (410) 898-5853  
 CONTACT: STEVEN KAHLER, AIA, NCARB  
 EMAIL: SKAHLER@SKASTUDIO.COM

**MEP & STRUCTURAL ENGINEER:**  
 GPN INC.  
 530 GATHER ROAD, STE 100  
 ROCKVILLE, MD 20850  
 CONTACT: MATHAN BRIS  
 NBRES@GPNET.COM

**REVISIONS**

NO.	DESCRIPTION	DATE

TAX MAP EW31 WSSC 232N13

2TH ELECTION DISTRICT  
 MONTGOMERY COUNTY  
 MARYLAND

**HAMMER HILL, PARCEL P311**  
**CLARKSBURG HIGHLANDS,**  
**PART OF BLOCK D**

PROJ. MGR	DCM
DRAWN BY	DCM
SCALE	1" = 30'
DATE	11/12/23

**EXISTING CONDITIONS PLAN**

**C101**  
 PROJECT NO. 13.109.41  
 SHEET NO. OF



Hammer Hill Drive



Proposed Site from Stringtown Rd.



Proposed Site



Hammer Hill with Building Site in Background



Proposed Site from Stringtown Rd.



Proposed Site



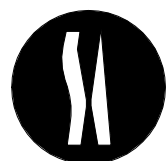
Hammer Hill with Building Site in Background



Proposed Site from Stringtown Rd.



Proposed Site looking to Stringtown Rd.



SKA studio  
47 Randall St., Suite 2  
Annapolis, MD 21401  
skastudio.com  
301 858 5853

### SITE PHOTOS

Clarksburg Daycare Center  
23312 Stringtown Road  
Clarksburg, MD  
PROJECT # 10272



Professional Certification  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the Laws of the State of Maryland. Lic. No. 16905 Exp. Date: 04/21/2024

**JASAI PROPERTIES, LLC**  
 4007 BROADSTONE STREET  
 FREDERICK, MD 21704  
 PH: (240) 423-3615  
 EMAIL: PBOLARUM@GMAIL.COM

**PROJECT TEAM**  
 OWNER/APPLICANT:  
 JASAI PROPERTIES, LLC  
 4007 BROADSTONE ST.  
 FREDERICK, MD 21704  
 PHONE: (240) 423-3615  
 CONTACT: DR. PRAVEEN BOLARUM  
 EMAIL: PBOLARUM@GMAIL.COM

**CIVIL ENGINEER & LANDSCAPE ARCHITECT:**  
 MACRUS HENDRICKS & GLASSCOCK, P.A.  
 9220 WIGHTMAN ROAD, SUITE 120  
 MONTGOMERY VILLAGE, MD 20886  
 PHONE: (301) 670-9960  
 CONTACT: DYLAN MACRO, CDT  
 EMAIL: DMACRO@MHGA.COM

**TRAFFIC ENGINEER:**  
 WELLS + ASSOCIATES  
 1110 BONIFANT ST., SUITE 210  
 SILVER SPRING, MD 20910  
 PHONE: (301) 448-1339  
 CONTACT: WILLIAM ZELD, PE  
 EMAIL: WZELD@WELLSANDASSOCIATES.COM

**LAND USE ATTORNEY:**  
 LERCH, EARLY & BREWER, CHTD.  
 700 WISCONSIN AVENUE, SUITE 700  
 BETHESDA, MD 20814  
 PHONE: (301) 961-6066  
 CONTACT: STUART S. BARR  
 EMAIL: SBARR@LERCHEARLY.COM

**ARCHITECT:**  
 SKA STUDIO  
 47 RANDALL ST., SUITE 2  
 ANNAPOLIS, MD 21401  
 PHONE: (410) 888-5883  
 CONTACT: STEVEN KAHLER, AIA, NCARB  
 EMAIL: SKAHLER@SKASTUDIO.COM

**REVISIONS**

NO.	DESCRIPTION	DATE
1	RESOLUTION APPROVAL	9/21/22

TAX MAP EW31 W58C 232N13

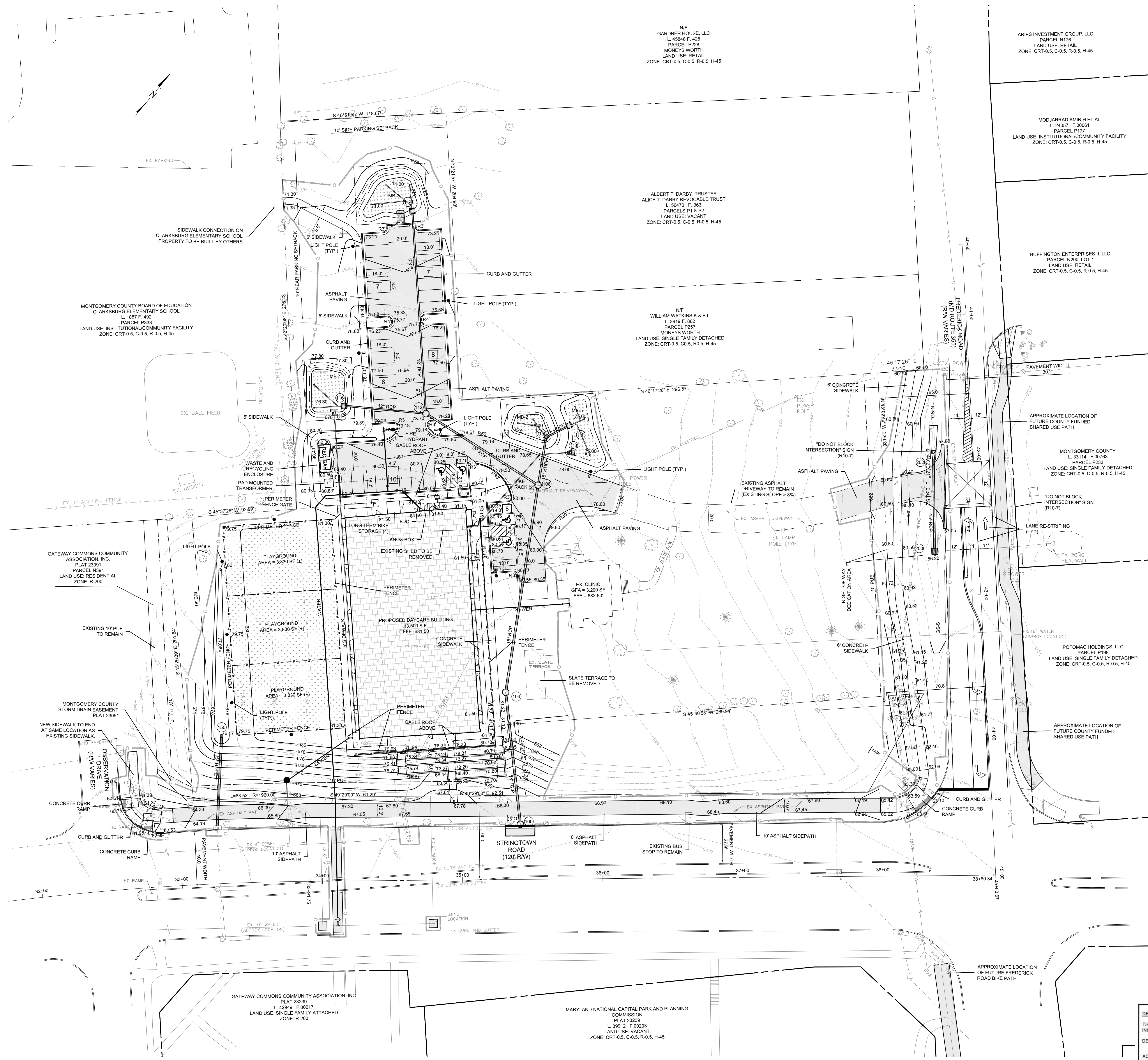
2TH ELECTION DISTRICT  
 MONTGOMERY COUNTY  
 MARYLAND

**HAMMER HILL, PARCEL P311**  
**CLARKSBURG HIGHLANDS,**  
**PART OF BLOCK D**

PROJ. MGR DCM  
 DRAWN BY DCM  
 SCALE 1" = 30'  
 DATE 05.11.22

**SITE PLAN**  
**820210090**

**C2.01**  
 PROJECT NO. 13.109.41  
 SHEET NO. 7 OF 7



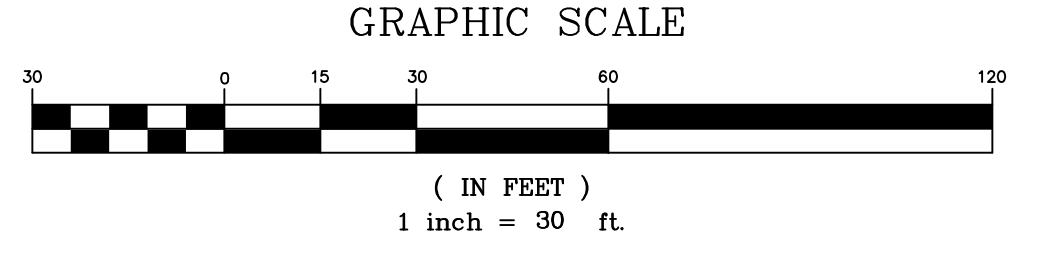
**ABBREVIATIONS**

ARCH	ARCHITECTURAL
BC	BACK OF CURB
BLDG	BUILDING
BS	BOTTOM OF STAIR
BW	BOTTOM OF WALL
CC	CURB & GUTTER
CONC	CONCRETE
DIP	DUCTILE IRON PIPE
ELEC	ELECTRIC
EP	EDGE OF PAVING
EX	EXISTING
FC	FOREST CONSERVATION
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FL	FLOW LINE
FL	HIGH DENSITY POLYETHYLENE PIPE
MB	MICRO BIURETAN
MECH	MECHANICAL
NIC	NOT IN CONTRACT
RCP	REINFORCED CONCRETE PIPE
REM	REMOVE
R/W	RIGHT-OF-WAY
SD	STORM DRAIN
SS	SANITARY SEWER
SWM	STORMWATER MANAGEMENT
SW	SIDEWALK
TBR	TO BE REMOVED
TC	TOP OF CURB
TS	TOP OF STAIR
TW	TOP OF WALL
TYP	TYPICAL
W	WATER

**LEGEND**

--- 402 ---	CONTOUR (2FT)	--- 402 ---	CONTOUR (2FT)
--- 410 ---	CONTOUR (2FT)	--- 410 ---	CONTOUR (2FT)
x 403.25	SPOT ELEVATION	+ 03.25	SPOT ELEVATION
---	CURB & GUTTER	---	CURB & GUTTER
---	ASPHALT PAVING	---	ASPHALT PAVING
---	CONCRETE PAVING	---	CONCRETE PAVING
---	LIMITS OF DISTURBANCE	---	LIMITS OF DISTURBANCE
---	WATER LINE	---	WATER LINE
---	FIRE HYDRANT	---	FIRE HYDRANT
---	SEWER LINE	---	SEWER LINE
---	STORM DRAIN	---	STORM DRAIN
---	NATURAL GAS	---	NATURAL GAS
---	UNDERGROUND ELECTRIC	---	UNDERGROUND ELECTRIC
---	UNDERGROUND COMMUNICATION	---	UNDERGROUND COMMUNICATION
---	LIGHT POLE	---	LIGHT POLE
---	PROPERTY BOUNDARY	---	PROPERTY BOUNDARY
---	EASEMENT	---	EASEMENT

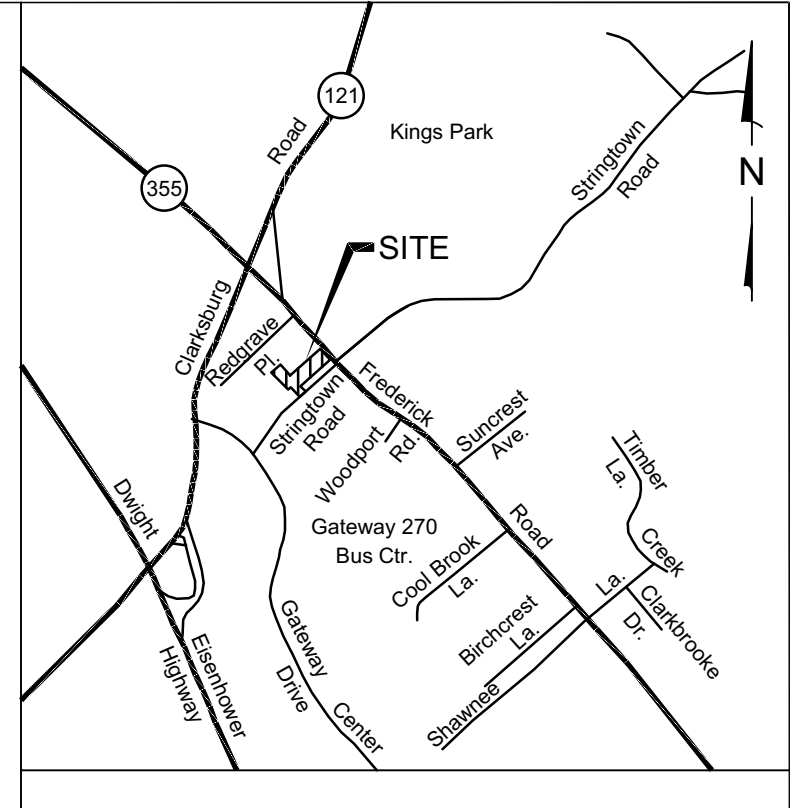
**DEVELOPER'S CERTIFICATE**  
 THE UNDERSIGNED AGREES TO EXECUTE ALL THE FEATURES OF SITE PLAN APPROVAL NO. 820210090 INCLUDING APPROVAL CONDITIONS, DEVELOPMENT PROGRAM, AND CERTIFIED SITE PLAN.  
 DEVELOPER: JASAI PROPERTIES, LLC COMPANY: DR. PRAVEEN BOLARUM CONTRACT FEE: \$  
 ADDRESS: 4700 BROADSTONE STREET, FREDERICK, MD 21704  
 PHONE: (240) 423-3615  
 EMAIL: PBOLARUM@GMAIL.COM  
 SIGNATURE: *[Signature]*



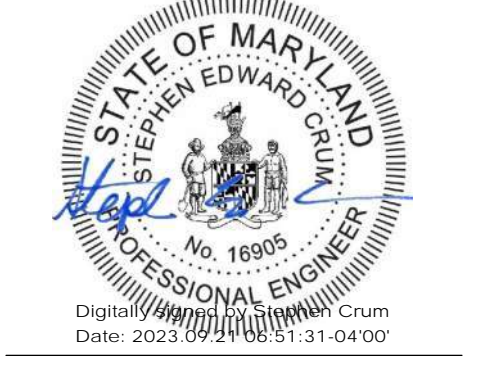
STANDARD EROSION AND SEDIMENT CONTROL NOTES. 1. The permittee shall notify the Department of Permitting Services (DPS) forty-eight (48) hours before commencing any land disturbing activity...

TREE CANOPY REQUIREMENTS TABLE. To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.

DEPARTMENT OF PERMITTING SERVICES. Mr. Mark Hollis, Director. Mr. Mani Hekko, Director. Mr. Mani Hekko, Director. Mr. Mani Hekko, Director.



MHG Civil Engineers Land Planners Landscape Architects Land Surveyors. 5220 Wightman Road, Suite 120 Montgomery Village, MD 20886



- SEQUENCE OF CONSTRUCTION (SUBJECT TO FOREST CONSERVATION LAWS) 1. PRIOR TO CLEARING TREES, INSTALLING SEDIMENT CONTROL MEASURES, OR GRADING, A PRECONSTRUCTION MEETING MUST BE CONDUCTED ON-SITE WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES (MCPS) SEDIMENT CONTROL INSPECTOR...

SOIL EROSION, SEDIMENT CONTROL AND SWM PLAN SHEET INDEX. SHEET NUMBER PLAN SHEET DESCRIPTIONS EPLAN FILE NAME.

RECORD DRAWING CERTIFICATION. A record set of approved Sediment Control/Stormwater Management plans must be maintained on-site at all times. In addition to stormwater management items, these plans must include the number and location of all trees proposed to be planted to comply with the Tree Canopy Law.

ATTENTION. THIS SITE IS WITHIN THE ENVIRONMENTALLY SENSITIVE CLARKSBURG SPECIAL PROTECTION AREA AND TEN MILE CREEK SPECIAL PROTECTION AREA.

LETTER OF PERMISSION. This document shall serve as an agreement between Jaisai Properties, LLC, owner of Parcel P311 and Parcel P346, with tax ID numbers 03-00021873 and Montgomery County Property, owner of adjacent property.

RELATED REQUIRED PERMITS. TYPE OF PERMIT REQD NOT REQD PERMIT # EXPIRATION DATE WORK RESTRICTION DATES.

DESIGN CERTIFICATION. I hereby certify that this plan has been prepared in accordance with the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control".

MAINTENANCE CERTIFICATION ON PRIVATE LANDS. I/We hereby certify that I/We assume maintenance responsibilities for all stormwater management structures shown herein.

DRAINAGE STATEMENT. I understand that DPS approval of this sediment control/stormwater management plan is for demonstrated compliance with required environmental runoff treatment standards.

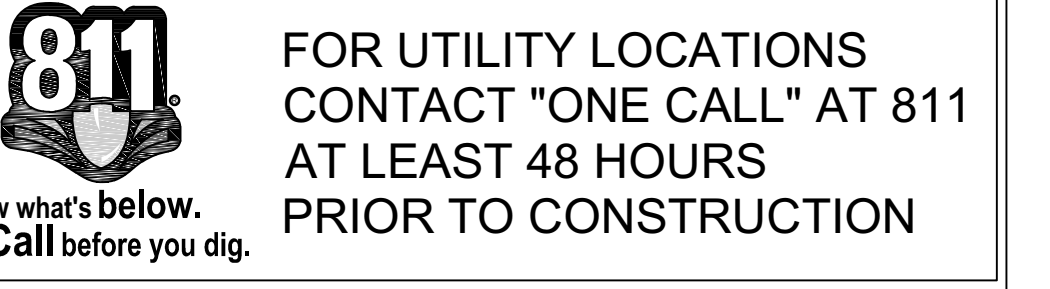
CERTIFICATION OF THE QUANTITIES. I hereby certify that the estimated total amount of excavation and fill as shown on these plans has been computed to be 14622 cubic yards of excavation.

OWNER'S/DEVELOPER'S CERTIFICATION. I/We hereby certify that all clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program.

SUMMARY TABLE. GENERAL PROPERTY INFORMATION: SMR 288584 SC# 288588. PROPERTY ADDRESS: 23310 FREDERICK ROAD CLARKSBURG, MD 20871.

TECHNICAL REVIEW OF SEDIMENT CONTROL. REVIEWED DATE: 10/9/2023. REVIEWED DATE: 10/9/2023.

TECHNICAL REVIEW OF STORMWATER MANAGEMENT. REVIEWED DATE: 10/9/2023. REVIEWED DATE: 10/9/2023.



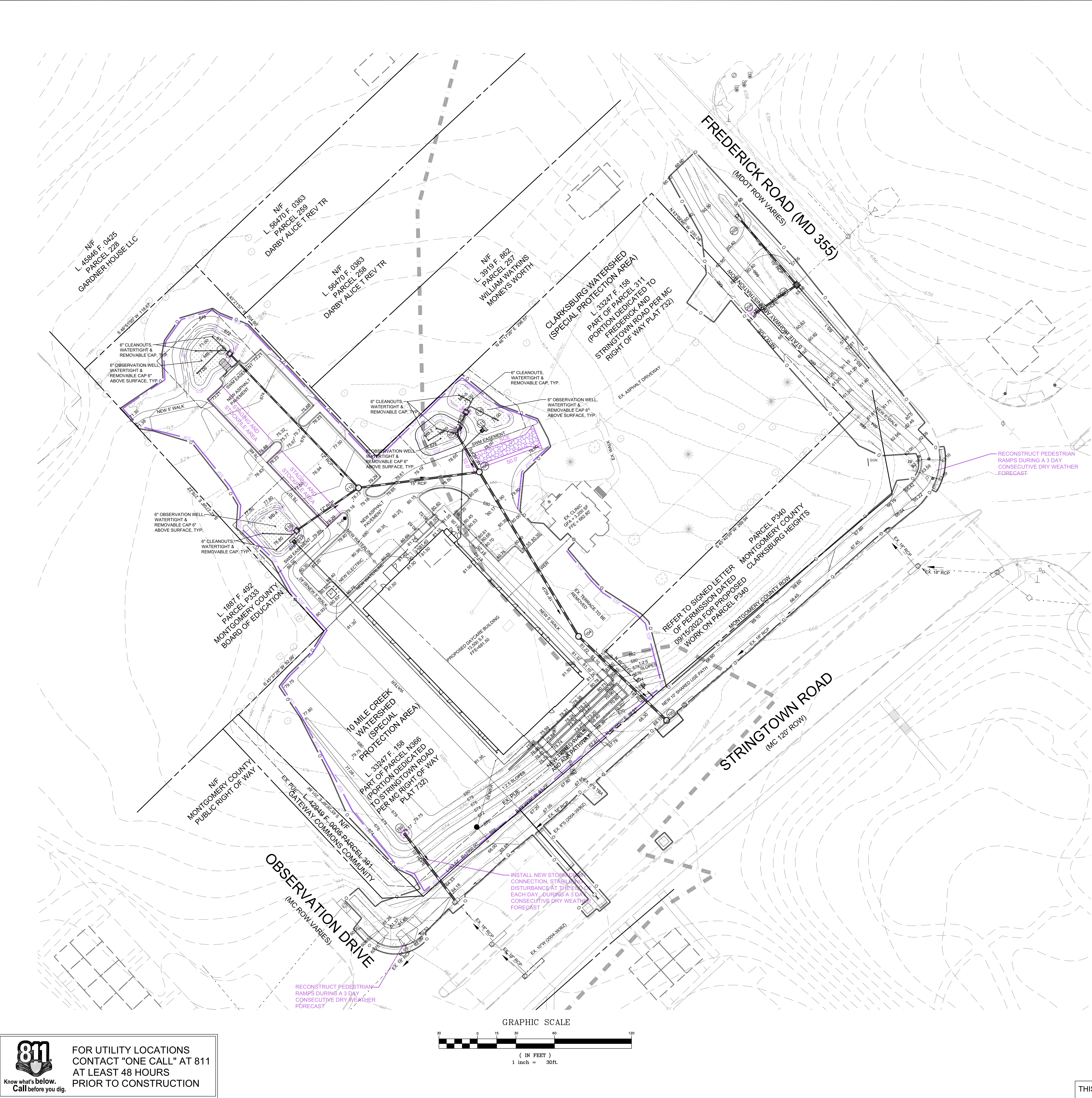
HAMMER HILL, PARCEL P311 CLARKSBURG HIGHLANDS, PART OF BLOCK D. 23310 FREDERICK ROAD. PROJ. MGR DCM. DRAWN BY MSH. SCALE NONE. DATE 06.19.2023.



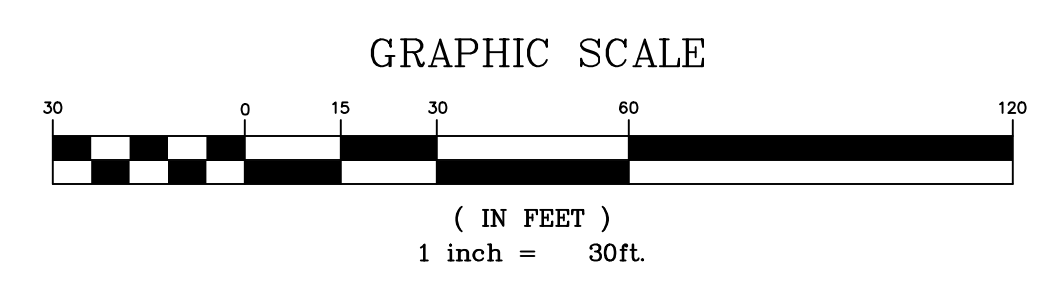
NO.	DESCRIPTION	DATE

**LEGEND**  
1"=30' SCALE

LIMITS OF DISTURBANCE	---
ROW LINE	---
EX. C&G	---
EX. STORM DRAIN	---
EX. WALK	---
EX. OHW	---
EX. SEWER	---
EX. WATER	---
EX. TREE	---
NEW CONTOUR	---
NEW WATER	---
NEW SEWER	---
NEW STORM DRAIN	---
NEW C&G	---
NEW WALK	---
NEW WALL	---
NEW CONTOUR	---
INLET PROTECTION	---
STABILIZED CONSTRUCTION ENTRANCE	---
SUPER SILT FENCE	---
SILT FENCE ON PAVEMENT	---



FOR UTILITY LOCATIONS  
CONTACT "ONE CALL" AT 811  
AT LEAST 48 HOURS  
PRIOR TO CONSTRUCTION



REVISIONS

NO.	DESCRIPTION	DATE

TAX MAP E931 WSSC 232N13

2TH ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

**HAMMER HILL, PARCEL P311  
CLARKSBURG HIGHLANDS,  
PART OF BLOCK D**

**23310 FREDERICK ROAD**

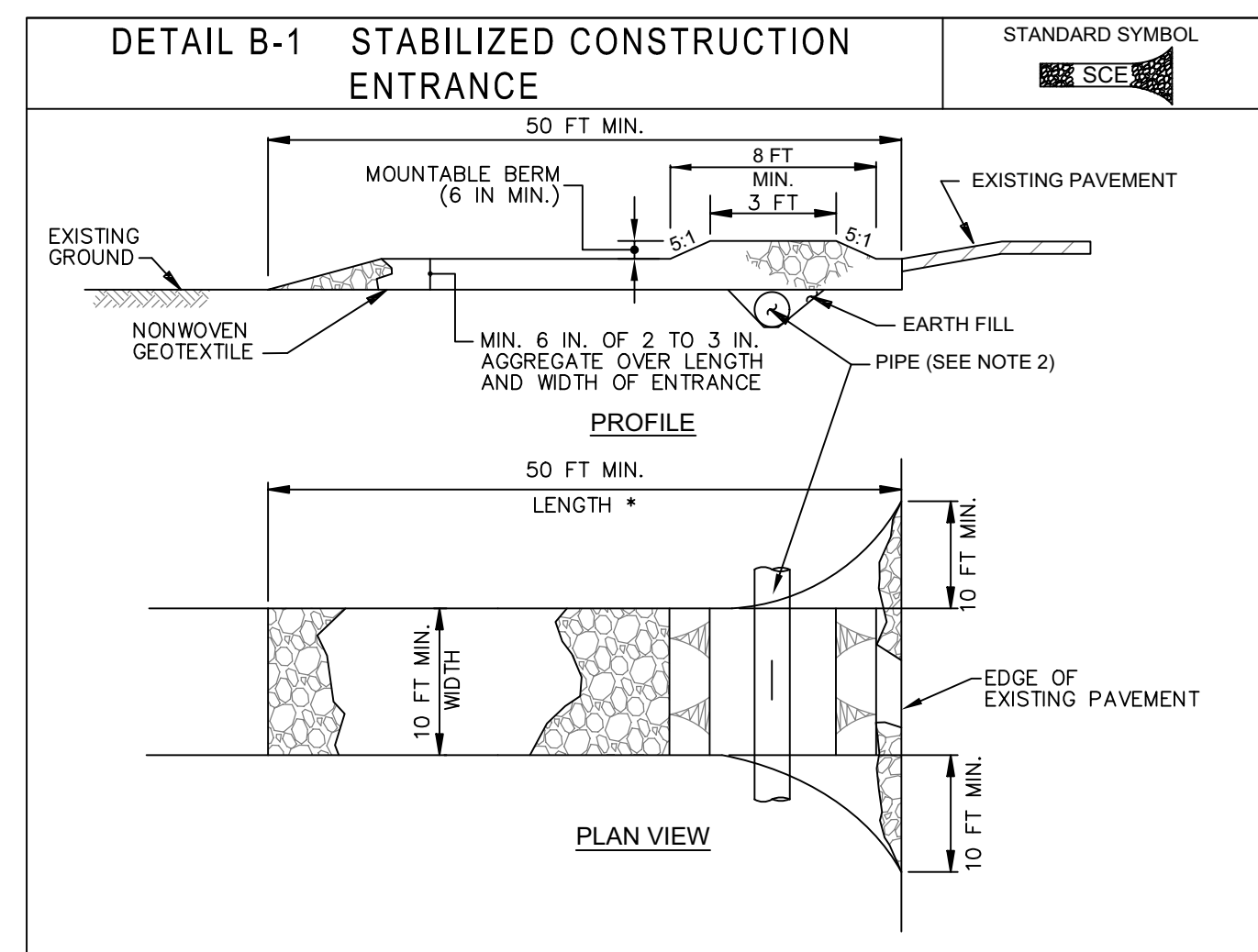
PROJ. MGR DCM  
DRAWN BY MSH  
SCALE NONE  
DATE 05.15.2023

FINAL SESC/SWM PLAN

STANDARD SESC DETAILS

**C3.03**

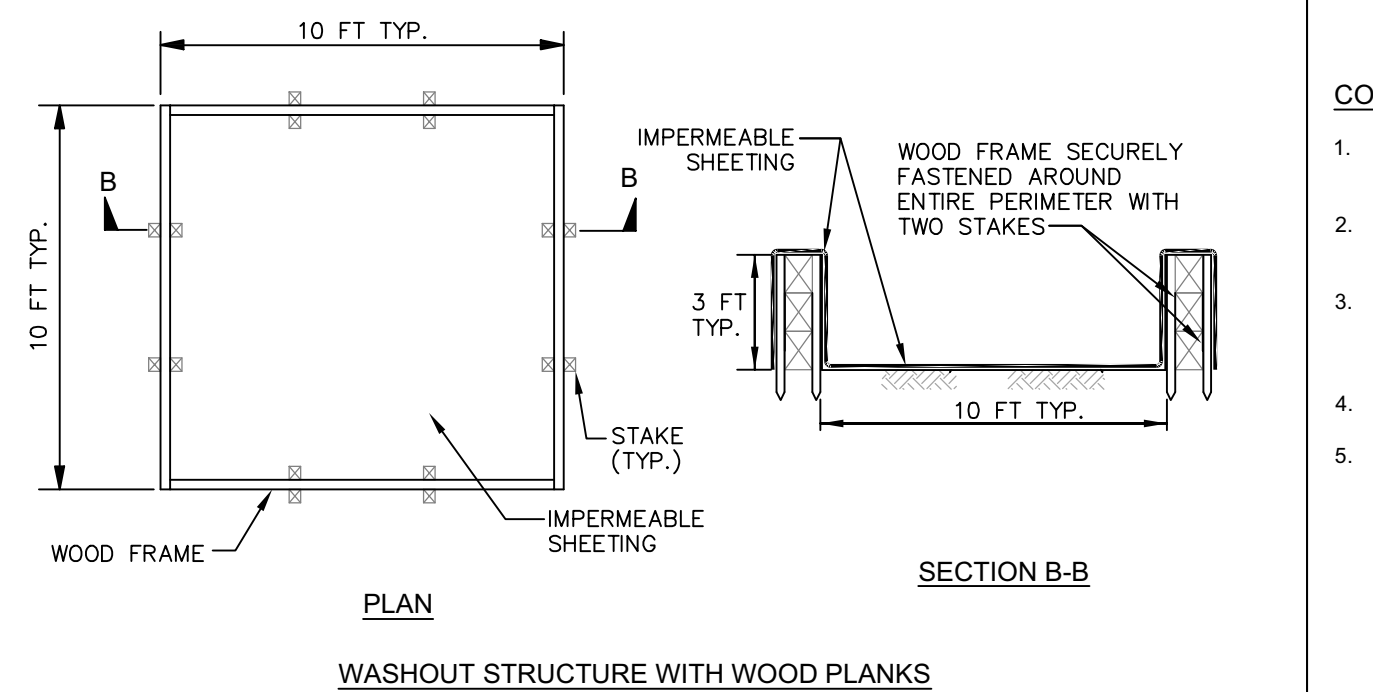
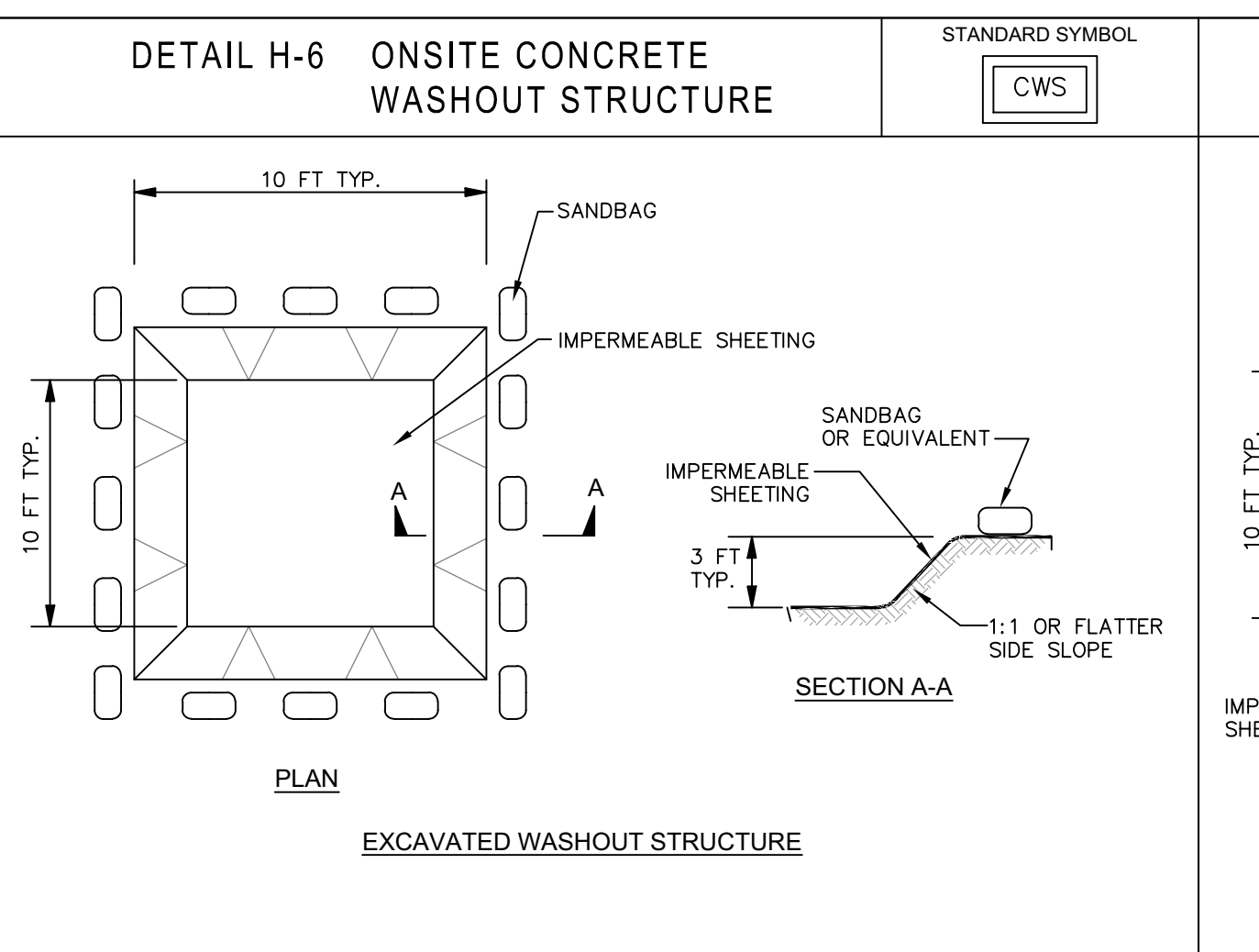
PROJECT NO. 2013.109.41  
SHEET NO. 3 OF 9



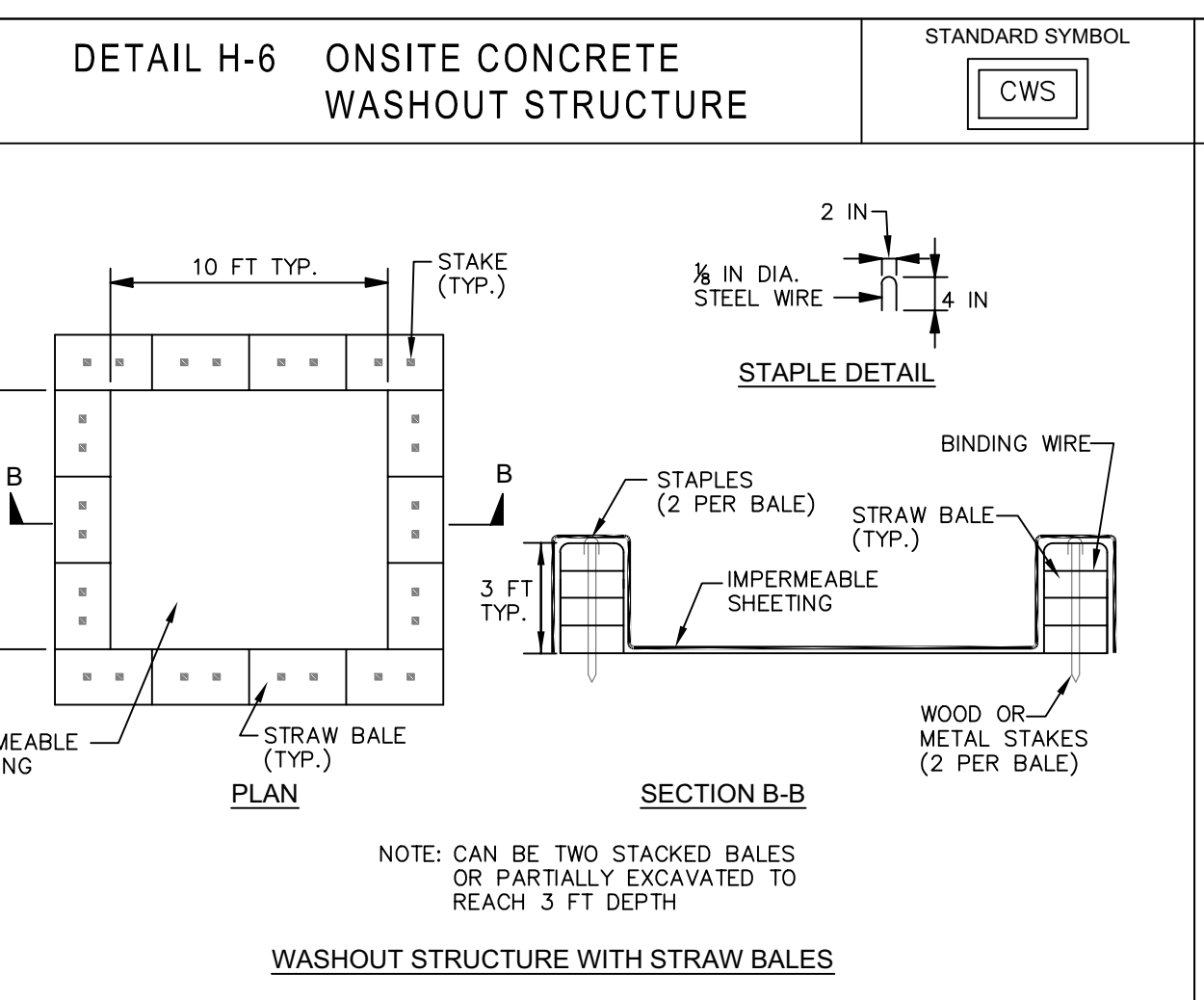
**CONSTRUCTION SPECIFICATIONS**

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (70 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLS, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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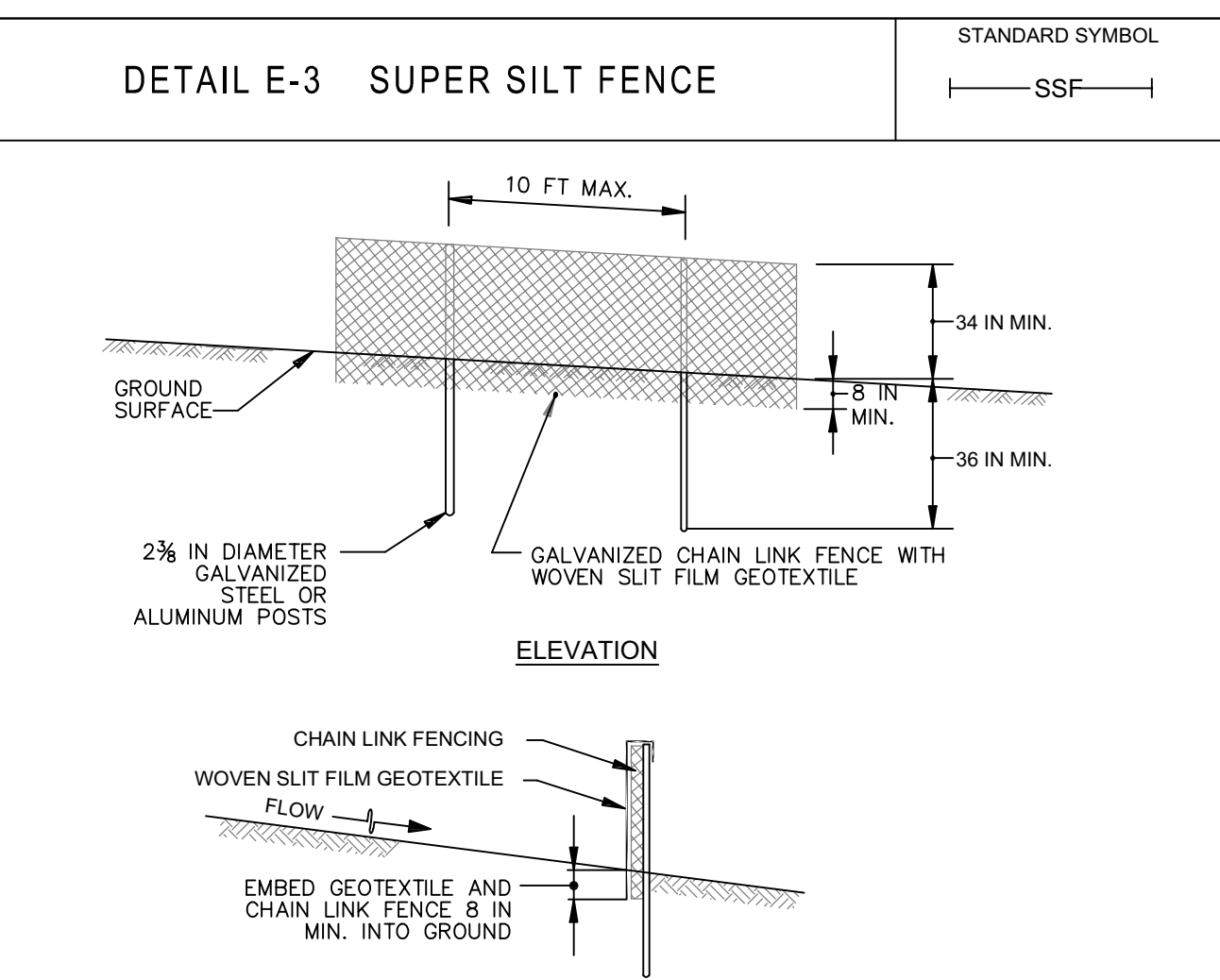
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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**CONSTRUCTION SPECIFICATIONS**

- LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
- SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
- PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
- PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
- KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

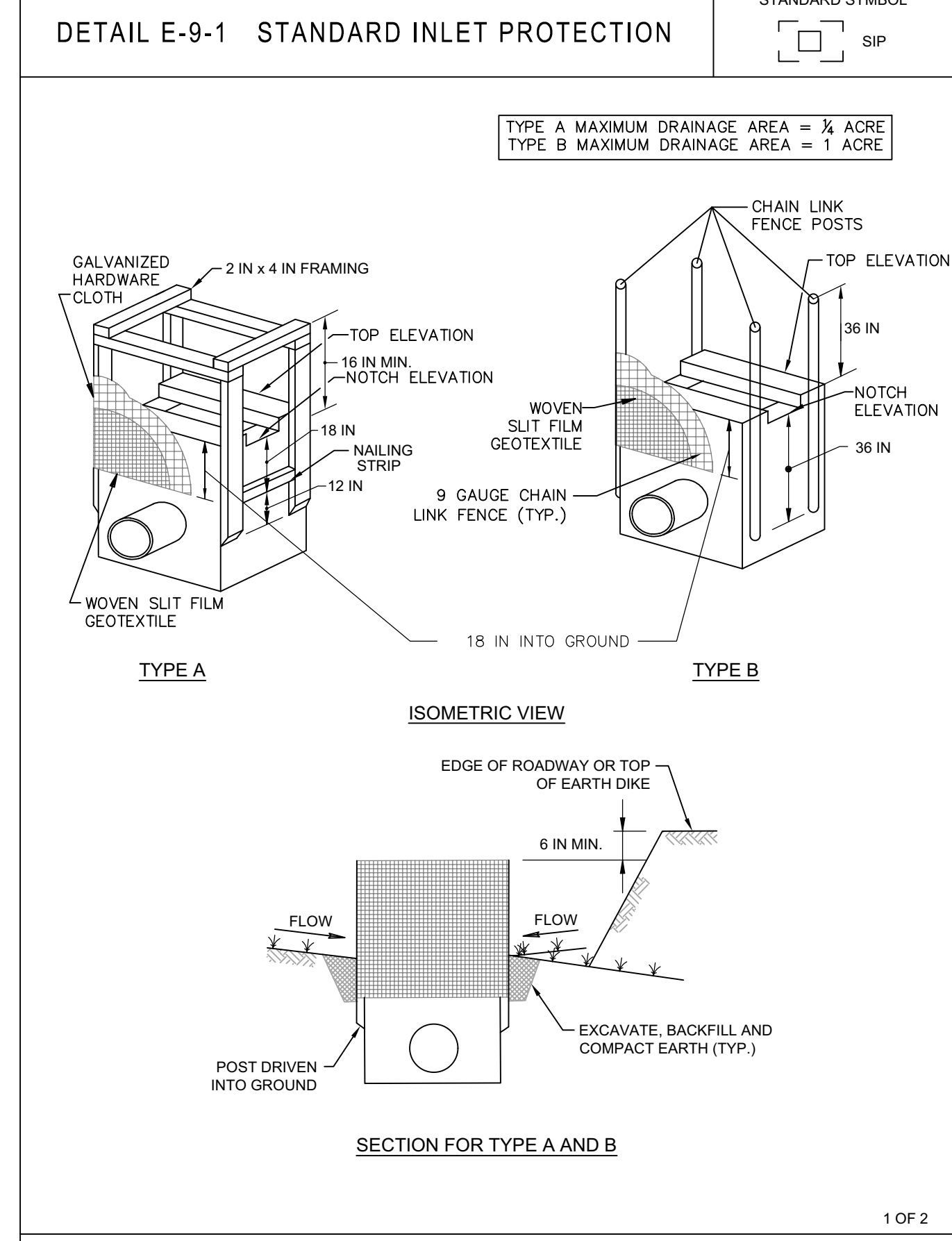
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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**CONSTRUCTION SPECIFICATIONS**

- INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 8 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (3 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASSES.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/FORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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**CONSTRUCTION SPECIFICATIONS**

- USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
- FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2X4 FRAME AS SHOWN. STRETCH 2 INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.  
FOR TYPE B, USE 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 8 GAUGE OR HEAVIER CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
- BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
- STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PRESSURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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Refer to the U.S.D.A. Plant Hardiness Zones Map (Figure B.3) on page B.19 of the MDE 2011 Sids & Specs manual and modify the zone and seeding dates as necessary.

Permanent Seeding Summary

No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depth (inches)	Fertilizer Rate (10-20-20)			Lime Rate
					N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
9	Tall Fescue (Lolium arundinaceum)	60	Apr 1 - May 15 Aug 15 - Oct 15	1/4-1/2 in	45 lb/ac (1 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
10	Hard Fescue (Festuca trichophylla)	40	Apr 1 - May 15 Aug 15 - Oct 15	1/4-1/2 in	45 lb/ac (1 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
11	ABGRASS	40	Apr 1 - May 15 Aug 15 - Oct 15	1/4-1/2 in	45 lb/ac (1 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
12	Perennial Ryegrass (Lolium perenne)	20	Apr 1 - May 15 Aug 15 - Oct 15	1/4-1/2 in	45 lb/ac (1 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
13	Tall Fescue (Lolium arundinaceum)	100	Apr 1 - May 15 Aug 15 - Oct 15	1/4-1/2 in	45 lb/ac (1 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)

NOTE: These seed mixtures are recommended for lawns, athletic fields, recreation areas and some forests, buffers & waterways. For other types of uses or special conditions, the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control should be referred to.  
If this project includes a Landscape Plan, see the specifications on the Landscape Plan. They conflict with the seeding summary.  
FOR SPECIFIC CULTIVARS AND ADDITIONAL INFORMATION, REFER TO THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SESC.

Table B.1: Temporary Seeding for Site Stabilization

Plant Species	Seeding Rate <sup>(1)</sup>		Seeding Depth (inches) <sup>(2)</sup>	Recommended Seeding Dates by Plant Hardiness Zone <sup>(3)</sup>		
	lb/ac	lb/1000 sf		5b and 6a	6b	7a and 7b
Annual Ryegrass (Lolium perenne esp. multiflorum)	40	1.0	0.5	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Barley (Hordeum vulgare)	96	2.2	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Oats (Avena sativa)	72	1.7	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Wheat (Triticum aestivum)	120	2.8	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Cereal Rye (Secale cereale)	112	2.6	1.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 1 to May 15; Aug 1 to Nov 15	Feb 15 to Apr 30; Aug 15 to Dec 15
Forset Millet (Setaria italica)	30	0.7	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 14
Poa Millet (Pennisetum glaucum)	20	0.5	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 14

Notes:  
1) Seeding rates for the warm-season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates shall be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses.  
2) Seeding rates listed above are for temporary seedings, when planted alone. When planted as a nurse crop with permanent seed mixes, use 1/3 of the seeding rate listed above for barley, oats, and wheat. For smaller-seeded grasses (annual ryegrass, poa millet, forset millet), do not exceed more than 5% (by weight) of the overall permanent seeding mix. Cereal rye generally should not be used as a nurse crop, unless planting will occur in very late fall beyond the seeding dates for other temporary seedings. Cereal rye has allelopathic properties that inhibit the germination and growth of other plants. If it must be used as a nurse crop, seed at 1/3 of the rate listed above.  
3) The planting dates listed are averages for each zone and may require adjustment to reflect local conditions, especially near the boundaries of the zone.  
Oats are the recommended nurse crop for warm-season grasses.  
For sandy soils, plant seeds at twice the depth listed above.  
The planting dates listed are averages for each zone and may require adjustment to reflect local conditions, especially near the boundaries of the zone.

Fertilizer Rate (10-20-20): 436 lb / ac (10 lb / 1000 sf)  
Lime Rate: 2 tons / ac (90 lb / 1000 sf)

**811**  
FOR UTILITY LOCATIONS  
CONTACT "ONE CALL" AT 811  
AT LEAST 48 HOURS  
PRIOR TO CONSTRUCTION  
Know what's below.  
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NO.	DESCRIPTION	DATE

TAX MAP EW31 WSSC 232N13

2TH ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

**HAMMER HILL, PARCEL P311  
CLARKSBURG HIGHLANDS,  
PART OF BLOCK D**

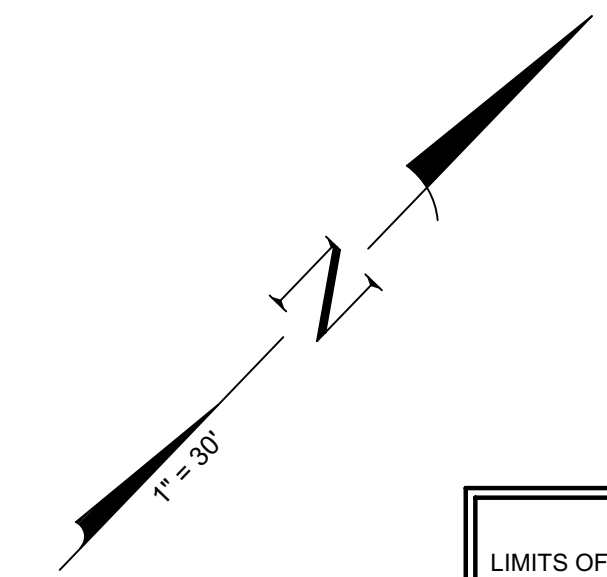
**23310 FREDERICK ROAD**

PROJ. MGR DCM  
DRAWN BY MSH  
SCALE 1"=30'  
DATE 08.13.2023

**FINAL SESC/SWM PLAN**

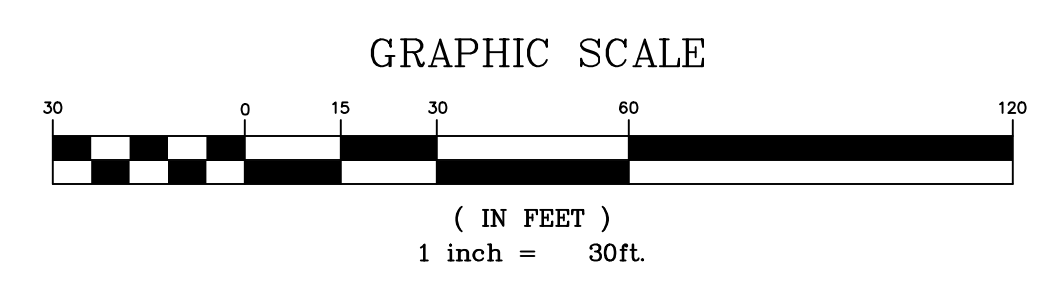
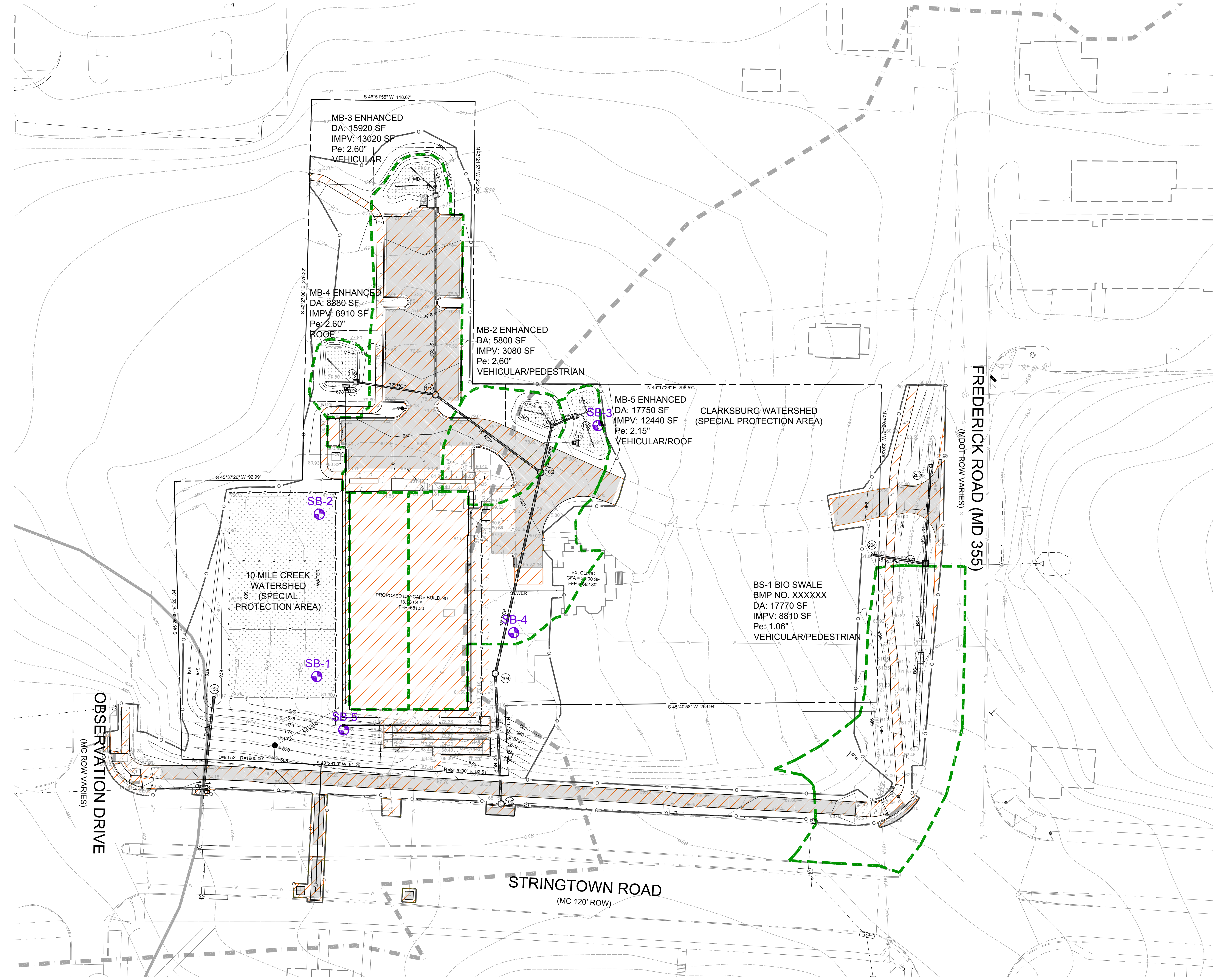
**SWM DRAINAGE AREA  
MAP AND IMPERVIOUS  
PLAN EXHIBIT**

**C4.01**  
PROJECT NO. 2013.109.41  
SHEET NO. 4 OF 9



**LEGEND**  
1"=30' SCALE

LIMITS OF DISTURBANCE	—○—
SOIL MAP UNIT BOUNDARY	16B 16C
ROW LINE	---
EX. CONTOUR	---320---
EX. CURB & GUTTER	====
EX. STORM DRAIN	---EX. 15" RCP---
EX. WALK	----
EX. GAS	----
EX. SEWER	----
EX. WATER	----
EX. TREE	○
NEW CONTOUR	---320---
NEW WATER	----
NEW SEWER	----
NEW STORM DRAIN	====
NEW CURB & GUTTER	====
NEW WALK	----
NEW WALL	----
NEW CONTOUR	---320---
SWM EASEMENTS	----
SPA DIVIDE	----
NEW DRAINAGE DIVIDES	---
SOIL BORING LOCATION	SB-11
IMPERVIOUS SURFACE WITHIN THE LOD	▨



(SEE <http://websoilssurvey.nrcs.usda.gov/app/>)

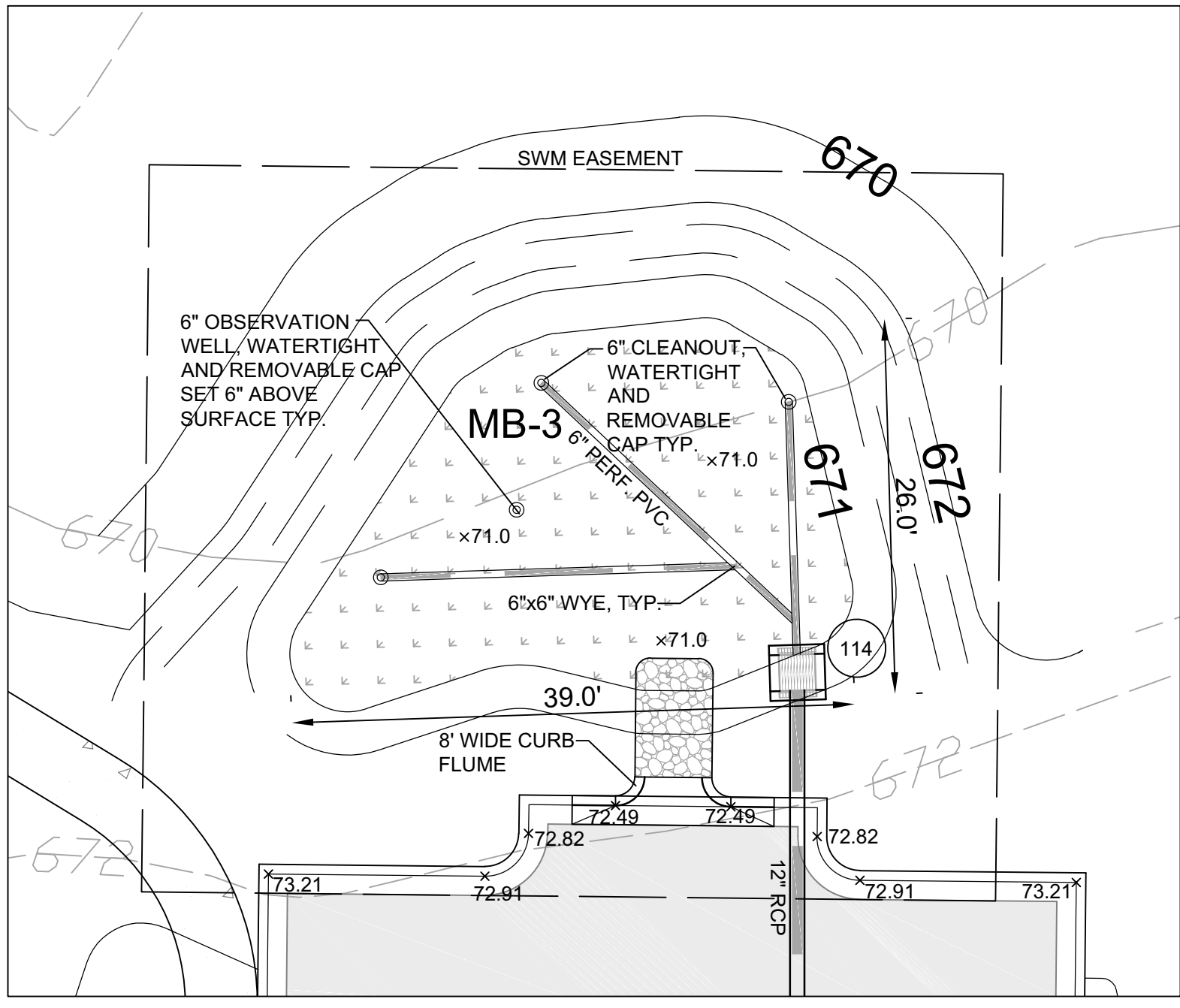
SOIL BOUNDARIES HAVE BEEN GRAPHICALLY REPRODUCED FROM MONTGOMERY COUNTY SOILS MAP, FROM THE WEB SOIL SURVEY INTERNET SITE, DATED 2020-08-28.

MAP UNIT SYMBOL	MAP UNIT NAME	HSG RATING
16B	Brinklow-Blocktown Channery Silt Loam, 3 to 8 percent slopes.	C

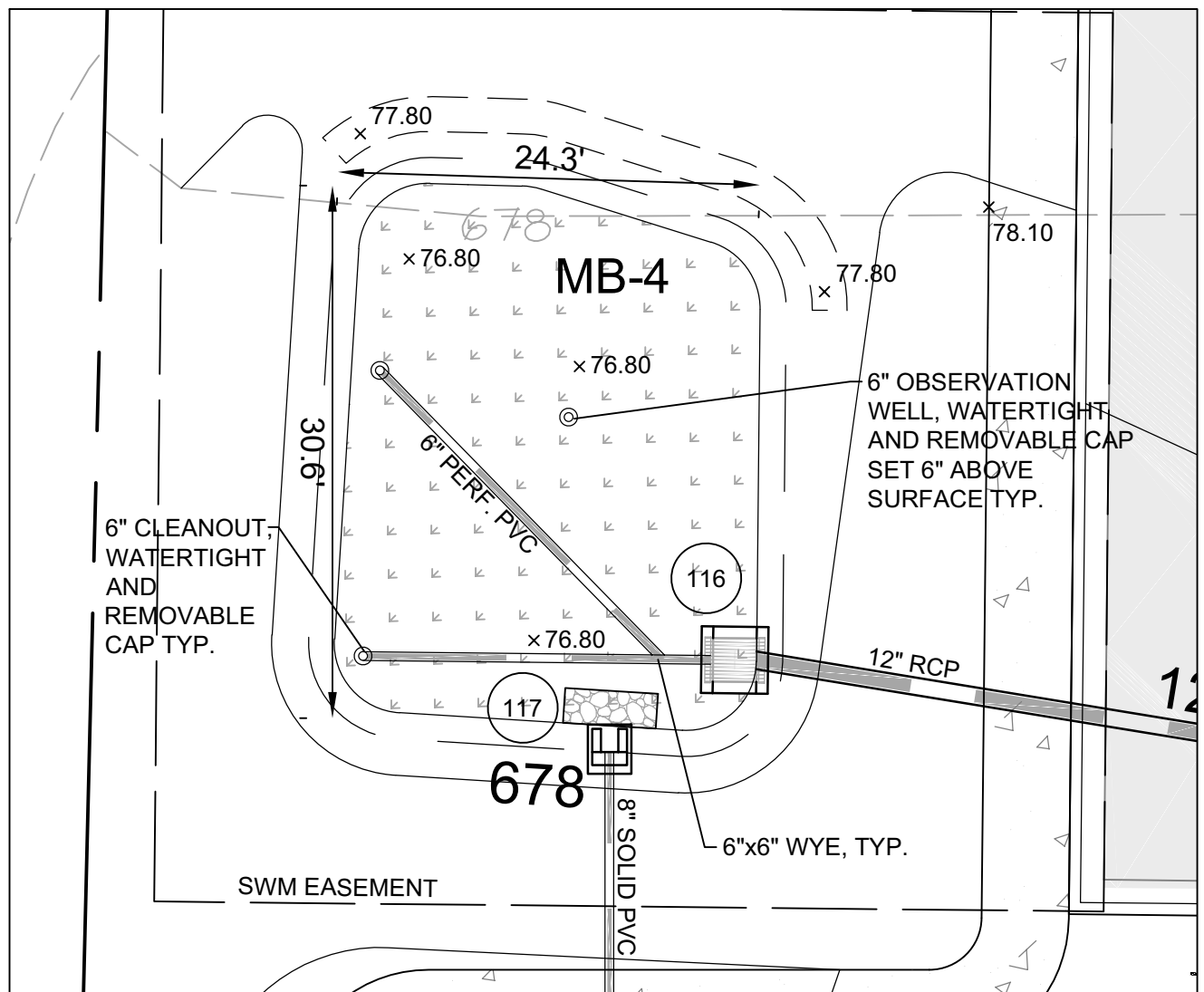
THIS PLAN IS FOR SOIL EROSION, SEDIMENT CONTROL AND SWM ONLY SC PERMIT NO. - 288588

**811**  
FOR UTILITY LOCATIONS  
CONTACT "ONE CALL" AT 811  
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SHEET C4.03 MICRO BIORETENTION STANDARD NOTES AND DETAILS

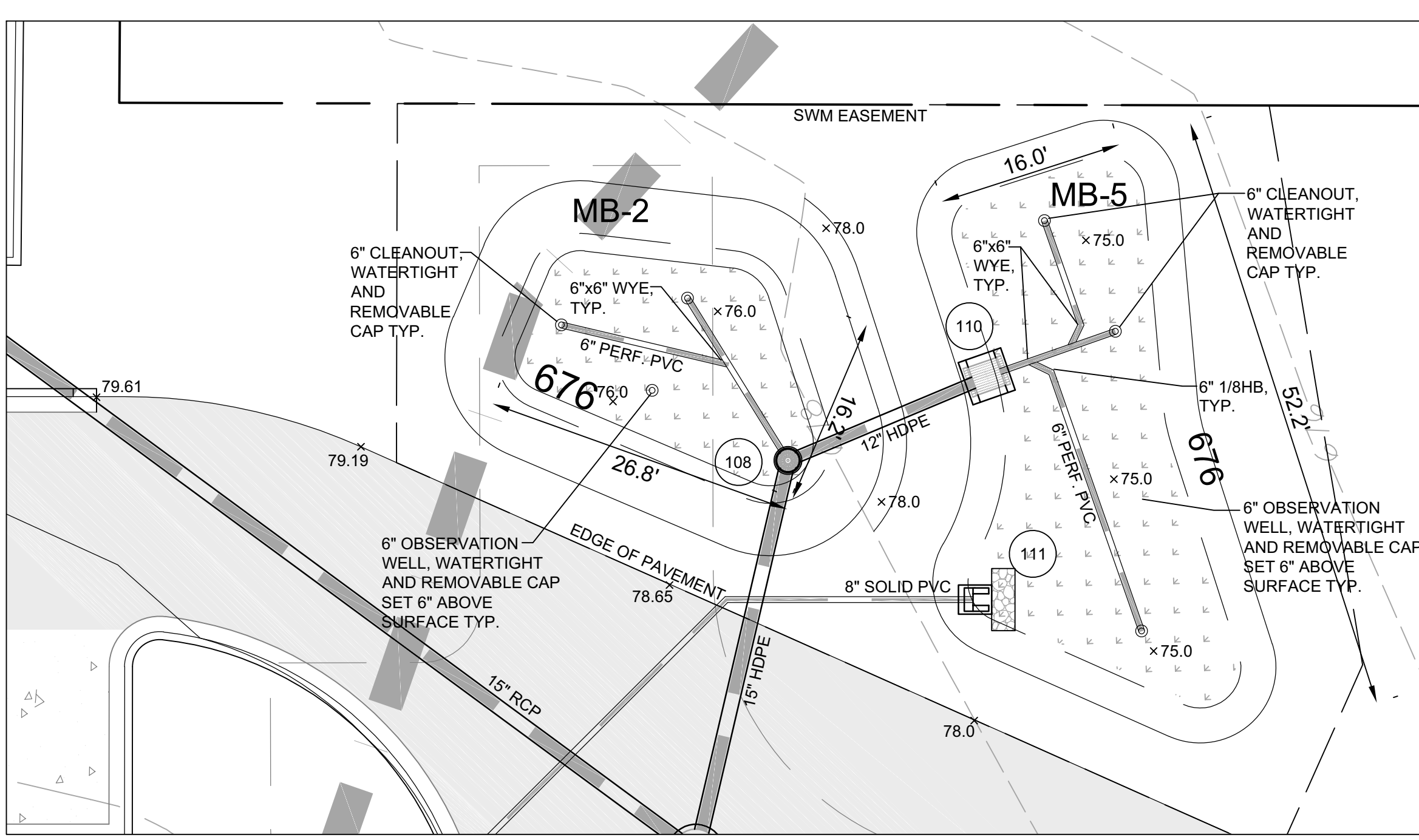


MB-3 DETAILED PLAN VIEW: SCALE 1"=10'

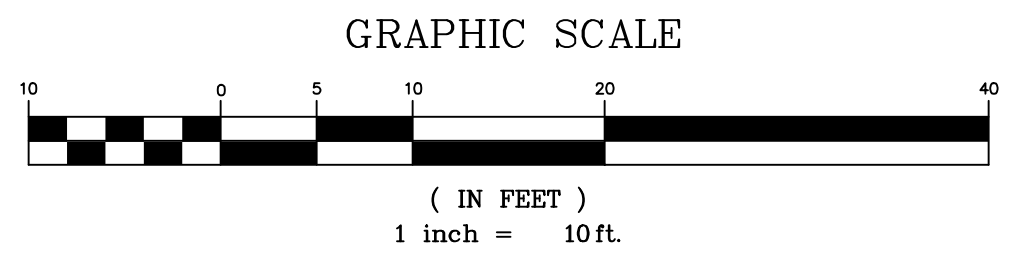


MB-4 DETAILED PLAN VIEW: SCALE 1"=10'

NOTE: ALL SPOT ELEVATIONS WITH THE PROPOSED STORMWATER MANAGEMENT FACILITIES REPRESENT THE TOP OF SETTLED PLANTING MEDIA. 3" OF MULCH TO BE APPLIED ONTO THE TOP OF SETTLED PLANTING MEDIA

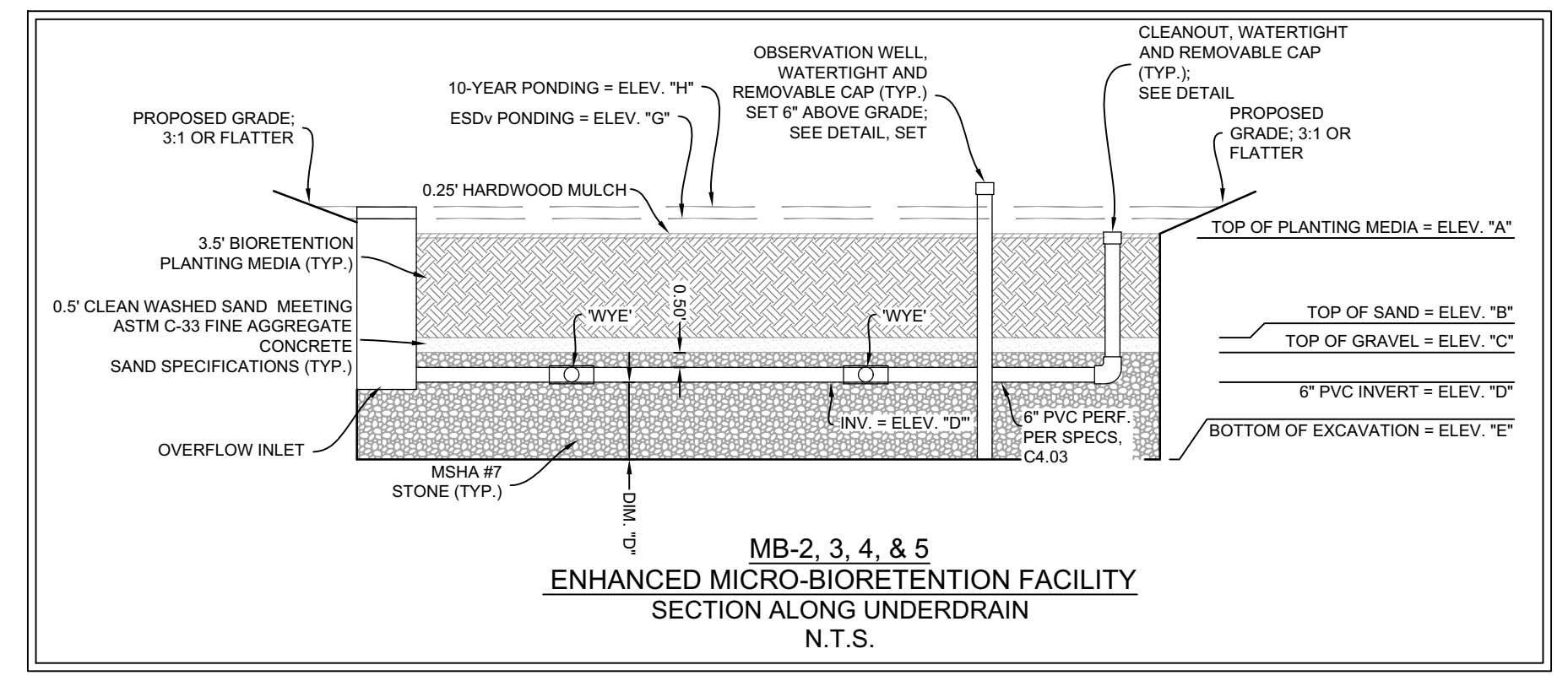


MB-2 & 5 DETAILED PLAN VIEW: SCALE 1"=10'



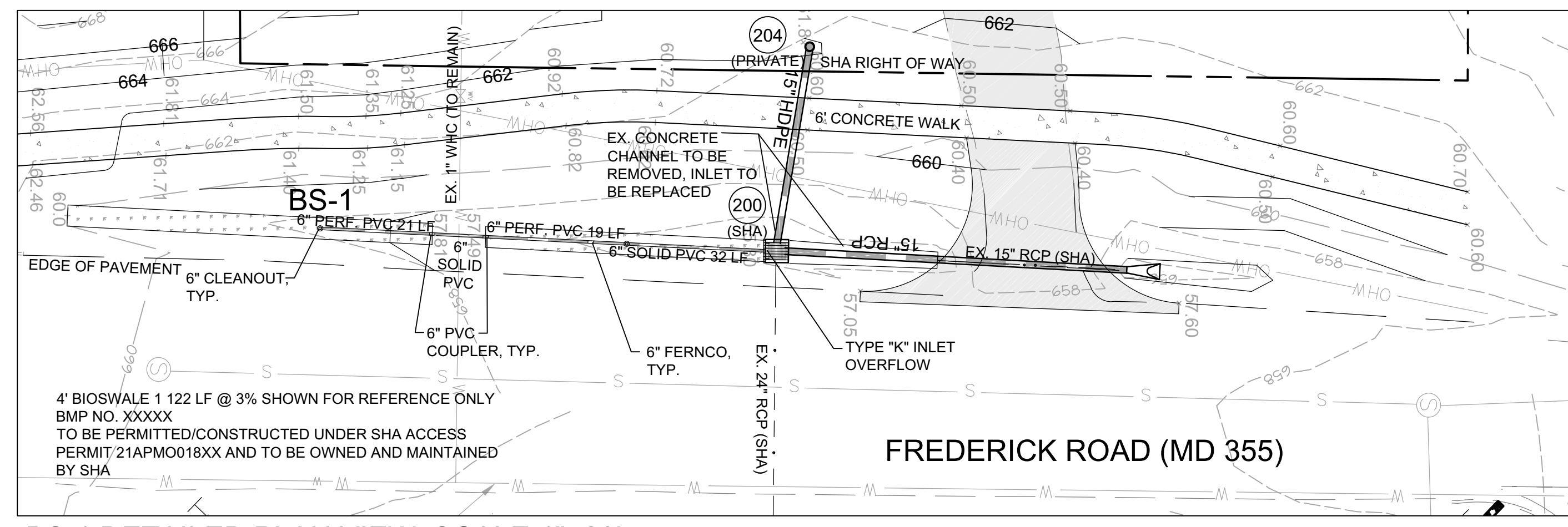
**811**  
Know what's below.  
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FOR UTILITY LOCATIONS  
CONTACT "ONE CALL" AT 811  
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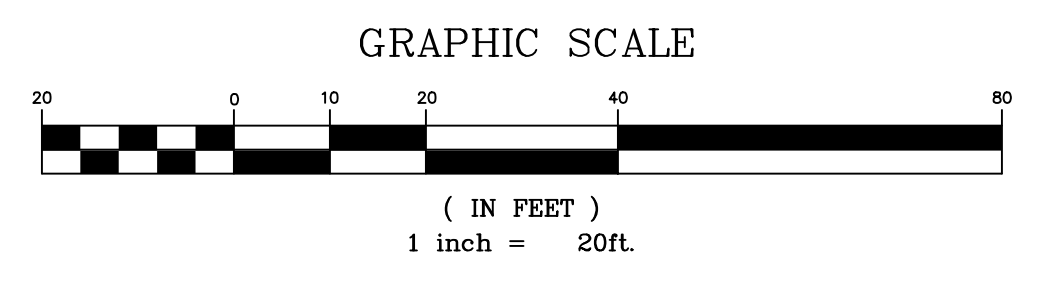


Micro-Bioretention Facility Design Information						05.15.2023
ID	Descriptor	Facility MB-2	Facility MB-3	Facility MB-4	Facility MB-5	
Elev. "A"	Top of Planting Media	Design 676.00'	Design 671.00'	Design 676.80'	Design 675.00'	
Elev. "B"	Top of Sand	Design 672.50'	Design 667.50'	Design 673.30'	Design 671.50'	
Elev. "C"	Top of Gravel	Design 672.00'	Design 667.00'	Design 672.80'	Design 671.00'	
Elev. "D"	PVC Underdrain Invert	Design 671.00'	Design 666.00'	Design 671.80'	Design 670.00'	
Elev. "E"	Bottom of Excavation	Design 669.75'	Design 664.00'	Design 670.55'	Design 668.75'	
Elev. "F"	Overflow Elevation	Design 676.50'	Design 672.00'	Design 677.30'	Design 676.00'	
Elev. "G"	ESDv Ponding Elev.	Design 676.50'	Design 672.00'	Design 677.30'	Design 676.00'	
Elev. "H"	10-Year Ponding Elev.	Design 676.63'	Design 672.27'	Design 677.48'	Design 676.19'	
Elev. "I"	Min. Top of Berm	Design 677.00'	Design 672.50'	Design 677.80'	Design 676.50'	
Dim. "A"	Maximum Bed Width	Design 16.2'	Design 39.0'	Design 24.3'	Design 16.0'	
Dim. "B"	Maximum Bed Length	Design 26.8'	Design 26.0'	Design 30.6'	Design 52.2'	
Dim. "C"	Planting Media Thickness	Design 3.50'	Design 3.50'	Design 3.50'	Design 3.50'	
Dim. "D"	Aggregate Below Underdrain	Design 1.25'	Design 2.00'	Design 1.25'	Design 1.25'	
	Bed Area	Design 347 sq. ft.	Design 751 sq. ft.	Design 692 sq. ft.	Design 719 sq. ft.	
	ESDv Provided	Design 663 cu. ft.	Design 2,257 cu. ft.	Design 1,407 cu. ft.	Design 2,198 cu. ft.	
"AA"	Receiving Storm Drain Str.	Design 108	Design 114	Design 116	Design 110	

\* See Detailed Plan Views and Details for additional dimensions.



BS-1 DETAILED PLAN VIEW: SCALE 1"=20'



NOTE: ALL SPOT ELEVATIONS WITH THE PROPOSED STORMWATER MANAGEMENT FACILITIES REPRESENT THE TOP OF SETTLED PLANTING MEDIA. 3" OF MULCH TO BE APPLIED ONTO THE TOP OF SETTLED PLANTING MEDIA

BIO SWALE FACILITY MAINTENANCE SCHEDULE	
TASK	RECOMMENDED INTERVAL
INSPECT AND REPAIR SOIL EROSION	MONTHLY AND AFTER HEAVY RAINS
REMOVE LEAVES, DEBRIS, TRASH, SILT, ETC. & REPLACE MULCH LAYER	MINIMUM 2 TIMES PER YEAR (SPRING AND FALL)
INSPECT PLANTS FOR DAMAGE & DISEASE/PEST PROBLEMS PRUNE AND TREAT PLANTS AS NEEDED & AS APPROPRIATE PER SPECIES. REMOVE AND REPLACE DEAD AND DISEASED PLANTS CONSIDERED BEYOND TREATMENT	MINIMUM 2 TIMES PER YEAR (3/15-4/30 AND 10/1-11/30)

**DESIGN ENGINEER SWM CONSTRUCTION OBSERVATION REQUIREMENTS**

THE CONTRACTOR IS REQUIRED TO CONTACT THE DESIGN ENGINEER AT 301.670.0840 WITH AT LEAST 24 HOURS ADVANCE NOTICE AT THE FOLLOWING STAGES OF THE BIO SWALE (BS) FACILITIES CONSTRUCTION:

- AGGREGATE INSTALLATION
- UNDERDRAIN LAYOUT AND INSTALLATION
- SAND LAYER INSTALLATION
- PLANTING MEDIA INSTALLATION
- SWM PLANTINGS AND LANDSCAPING INSTALLATION

FAILURE TO NOTIFY THE DESIGN ENGINEER MAY NECESSITATE SWM FACILITY RECONSTRUCTION.

CONSTRUCTION INSPECTION CHECK-OFF LIST FOR BIORETENTION SWALE			
STAGE	MCDCPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE	BS 1
1. Excavation for BioSwale facility conforms to approved plans			
2. Placement of stone backfill and underdrain system conforms to approved plans			
3. Placement of filter media conforms to approved plans			
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans			
5. Final grading and permanent stabilization conforms to approved plans			

BIORETENTION FACILITY MAINTENANCE SCHEDULE	
TASK	RECOMMENDED INTERVAL
INSPECT AND REPAIR SOIL EROSION	MONTHLY AND AFTER HEAVY RAINS
REMOVE LEAVES, DEBRIS, TRASH, SILT, ETC. & REPLACE MULCH LAYER	MINIMUM 2 TIMES PER YEAR (SPRING AND FALL)
INSPECT PLANTS FOR DAMAGE & DISEASE/PEST PROBLEMS PRUNE AND TREAT PLANTS AS NEEDED & AS APPROPRIATE PER SPECIES. REMOVE AND REPLACE DEAD AND DISEASED PLANTS CONSIDERED BEYOND TREATMENT	MINIMUM 2 TIMES PER YEAR (3/15-4/30 AND 10/1-11/30)

NOTE: CONTRACTOR SHALL CONFIRM THAT BIORETENTION FACILITIES DIMENSIONS, ROOF LEADER LOCATIONS AND OTHER DESIGN ELEMENTS ARE COORDINATED WITH ARCHITECTURAL AND OTHER TRADE PLANS. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR IS TO CONTACT THE DESIGN ENGINEER AND ARCHITECT. SITE UTILITIES ARE TO BE CONSTRUCTED IN LOCATIONS SHOWN. IF A UTILITY LOCATION IS CHANGED AND IS FOUND TO CONFLICT WITH A SWM FACILITY, THE FACILITY MUST BE REVIEWED AND APPROVED BY THE COUNTY, DESIGN ENGINEER, ARCHITECT AND APPROPRIATE TRADE PRIOR TO UTILITY CONSTRUCTION. MODIFICATIONS TO THE STORMWATER MANAGEMENT PLAN WILL REQUIRE A FORMAL REVISION TO THE PLAN WITH THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES, WHICH WILL INCLUDE APPLICABLE PLAN REVISION FEES.

**DESIGN ENGINEER SWM CONSTRUCTION OBSERVATION REQUIREMENTS**

THE CONTRACTOR IS REQUIRED TO CONTACT THE DESIGN ENGINEER AT 301.670.0840 WITH AT LEAST 24 HOURS ADVANCE NOTICE AT THE FOLLOWING STAGES OF THE TWO BIORETENTION FACILITIES CONSTRUCTION:

- AGGREGATE INSTALLATION
- UNDERDRAIN LAYOUT AND INSTALLATION
- SAND LAYER INSTALLATION
- PLANTING MEDIA INSTALLATION
- SWM PLANTINGS AND LANDSCAPING INSTALLATION

FAILURE TO NOTIFY THE DESIGN ENGINEER MAY NECESSITATE SWM FACILITY RECONSTRUCTION.

INSPECTION CHECKLIST	STAGE	MB 2		MB 3		MB 4		MB 5	
		MCDCPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE	MCDCPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE	MCDCPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE	MCDCPS INSPECTOR INITIALS/DATE	OWNER/DEVELOPER INITIALS/DATE
1. Excavation for Micro Bioretention facility conforms to approved plans									
2. Placement of stone backfill and underdrain system conforms to approved plans									
3. Placement of filter media conforms to approved plans									
4. Connecting pipes and/or grading conveyance to the facility constructed per the approved plans									
5. Final grading and permanent stabilization conforms to approved plans									

THIS PLAN IS FOR SOIL EROSION, SEDIMENT CONTROL AND SWM ONLY SC PERMIT NO. - 288588

**MHG**  
Civil Engineers  
Land Planners  
Landscape Architects  
Land Surveyors

9220 Wightman Road, Suite 120  
Montgomery Village, MD 20886  
Phone: 301.670.0840  
www.mhga.com

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STATE OF MARYLAND  
Professional Engineer  
No. 16956  
Date: 2023.07.19.08:40:00

Professional Certification  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the Laws of the State of Maryland, Lic. No. 16956 Exp. Date: 04.21.2024

**PROJECT TEAM**

OWNER/APPLICANT:  
JAISAI PROPERTIES, LLC  
4007 BROADSTONE ST.  
FREDERICK, MD 21704  
PHONE: (240) 423-2615  
CONTACT: DR. PRAVEEN BOLARUM  
EMAIL: pbolarum@gmail.com

**CIVIL ENGINEER & LANDSCAPE ARCHITECT**  
MACRIS, HENDRICKS & GLASCOCK, P.A.  
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MONTGOMERY VILLAGE, MD 20886  
PHONE: (301) 670-0840  
CONTACT: DYLAN MACRO, CDT  
EMAIL: DMACRO@MHGPA.COM

**TRAFFIC ENGINEER:**  
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1110 BONFANT ST., SUITE 210  
SILVER SPRING, MD 20910  
PHONE: (301) 448-1335  
CONTACT: WILLIAM ZEID, PE  
EMAIL: WLZEID@WELLSANDASSOCIATES.COM

**LAND USE ATTORNEY:**  
LERCHE, EARLY & BREWER, CHTD.  
7600 WISCONSIN AVENUE, SUITE 700  
BETHESDA, MD 20814  
PHONE: (301) 961-6095  
CONTACT: STUART R. BARR  
EMAIL: SRBARR@LERCHEARLY.COM

**ARCHITECT:**  
SKA STUDIO  
47 RANDALL ST., SUITE 2  
ANNAPOLIS, MD 21401  
PHONE: (301) 858-5853  
CONTACT: STEVEN KAHLE, AIA, NCARB  
EMAIL: SKAHLE@SKASTUDIO.COM

REVISIONS		
NO.	DESCRIPTION	DATE

TAX MAP EW01 W58C 232NM13

27TH ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

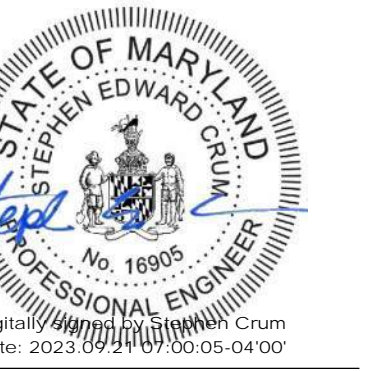
**HAMMER HILL, PARCEL P311  
CLARKSBURG HIGHLANDS,  
PART OF BLOCK D**

**23310 FREDERICK ROAD**

PROJ. MGR DCM  
DRAWN BY MSH  
SCALE AS NOTED  
DATE 08.13.2023

**FINAL SESC/SWM PLAN**  
**SWM DETAILED PLAN**

**C4.02**  
PROJECT NO. 2013.109.41  
SHEET NO. 5 OF 9



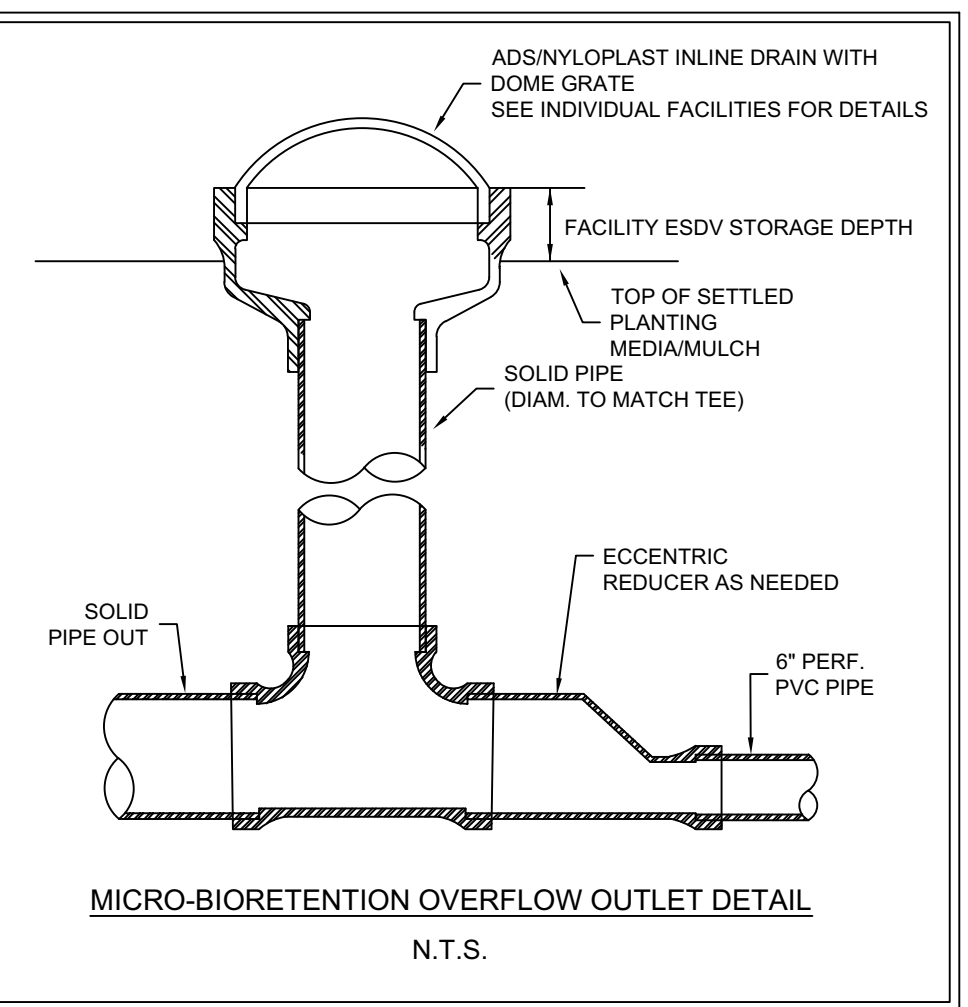
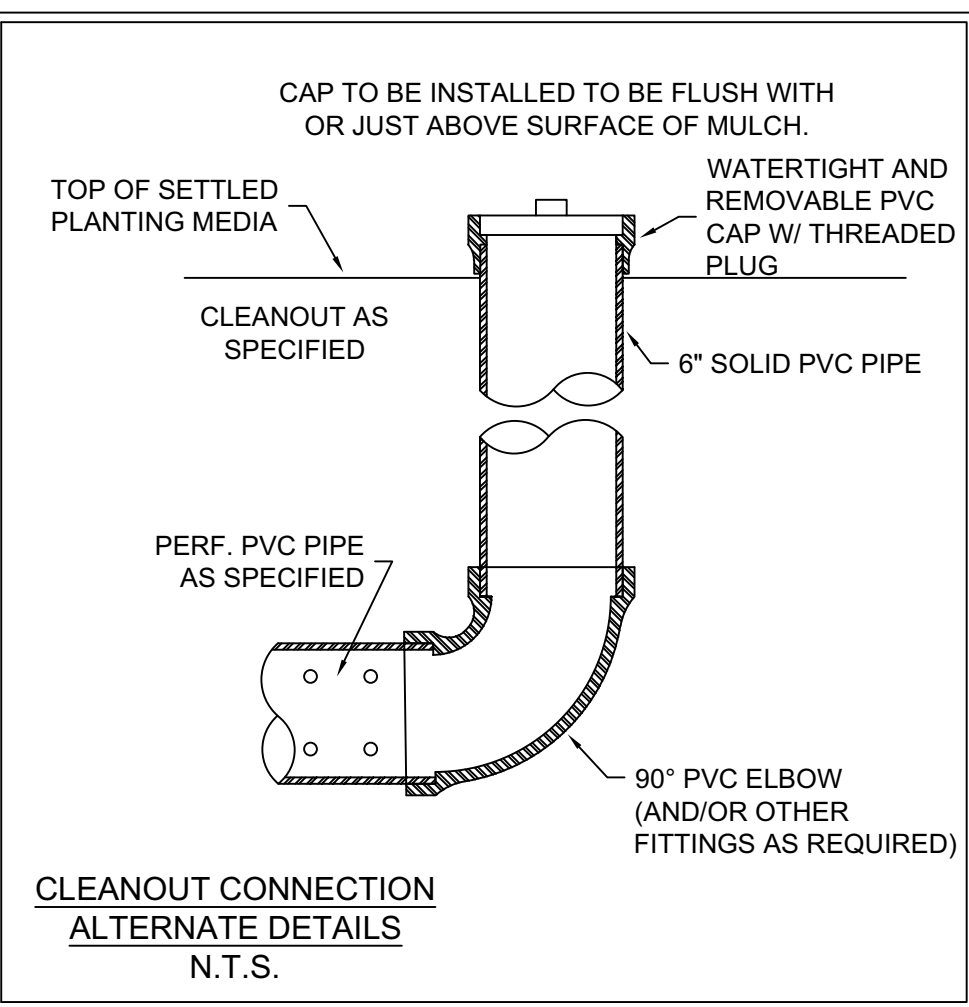
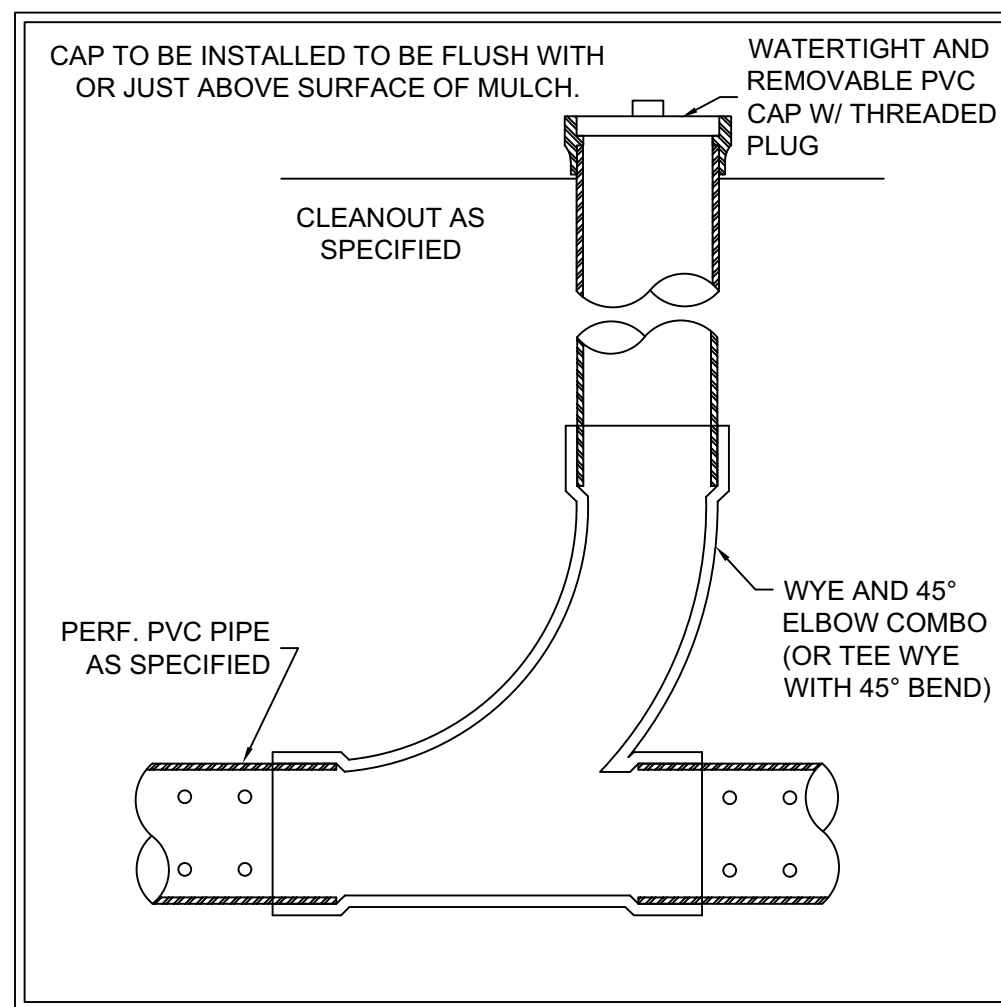
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ANNAPOLIS, MD 21401  
PHONE: (301) 858-5883  
CONTACT: STEVEN KAHLE, AIA, NCARB  
EMAIL: SKAHLE@SKASTUDIO.COM



**PERFORATION REQUIREMENTS**

PIPE DIAMETER	PERFORATION or SLOT DIM.	HOLES PER LINEAR FOOT	HOLE CONFIGURATION
6"	0.375" (3/8") Dia.	12	4 @ 90° cc
6"	0.125" W x 1.9" L	12	4 @ 90° cc

THE UNDERDRAIN PIPE CONSISTS OF 6-INCH DIAMETER SCHEDULE 40 OR STRONGER PERFORATED PVC PIPES AT 0.00% PERFORATIONS MUST BE 3/8" INCH IN DIAMETER AND MUST BE LOCATED 4 INCHES ON CENTER, EVERY 90 DEGREES AROUND THE PIPE. AN ACCEPTABLE ALTERNATIVE TO PERFORATIONS IS SLOTS AT 3/8" WIDE BY A MINIMUM 1.9" LONG. SLOTS SHOULD ALSO BE PLACED IN FOUR ROWS PER LINEAR FOOT WITH FOUR SLOTS PER ROW.

ACCESS FOR CLEANING ALL UNDERDRAIN PIPING IS NEEDED. CLEANOUTS FOR EACH PIPE SHOULD EXTEND AT LEAST 6 INCHES ABOVE THE TOP OF THE UPPER FILTER SURFACE (I.E. THE TOP LAYER OF THE UPPER GRAVEL) AND HAVE A REMOVABLE WATERPROOF CAP.

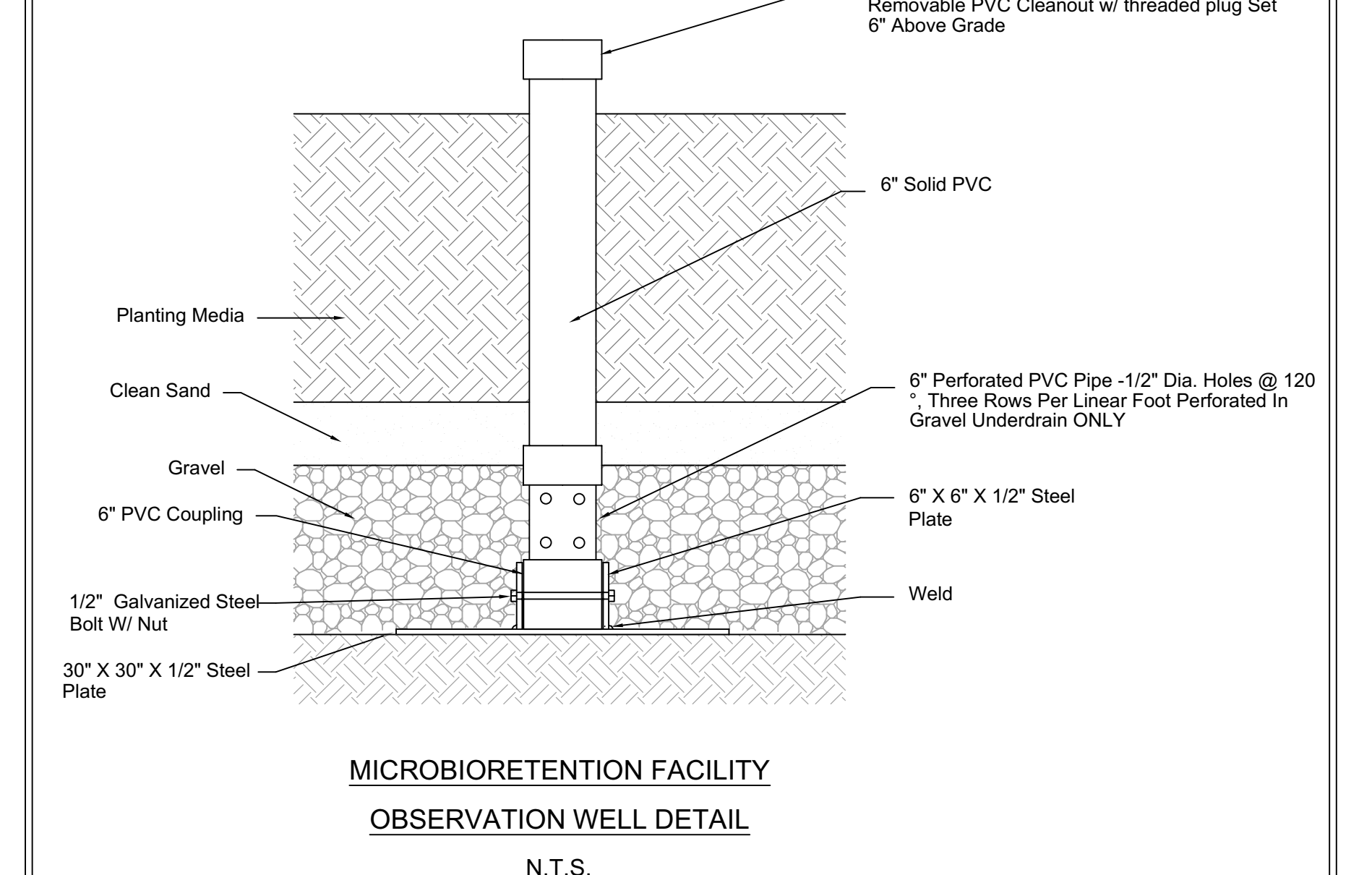
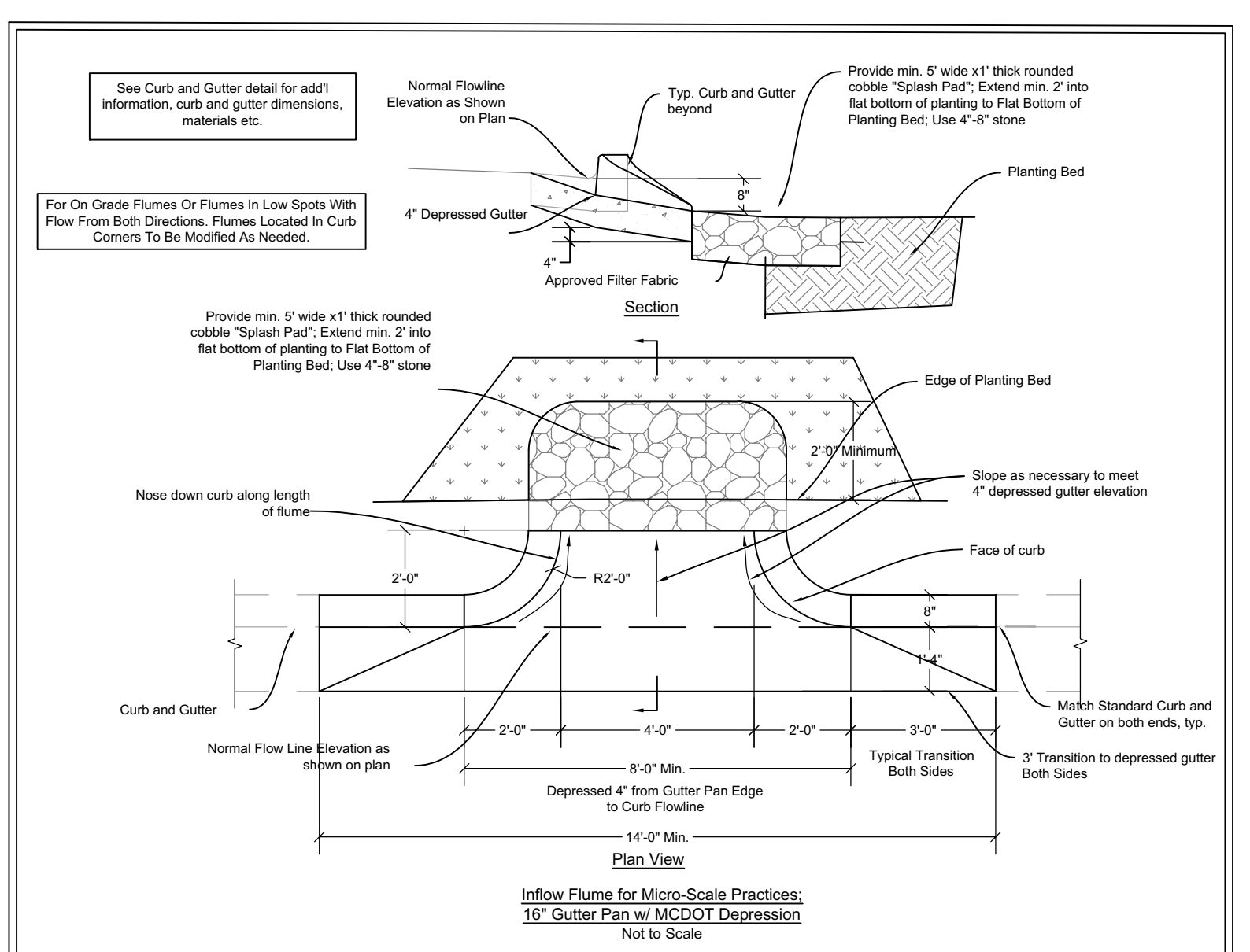
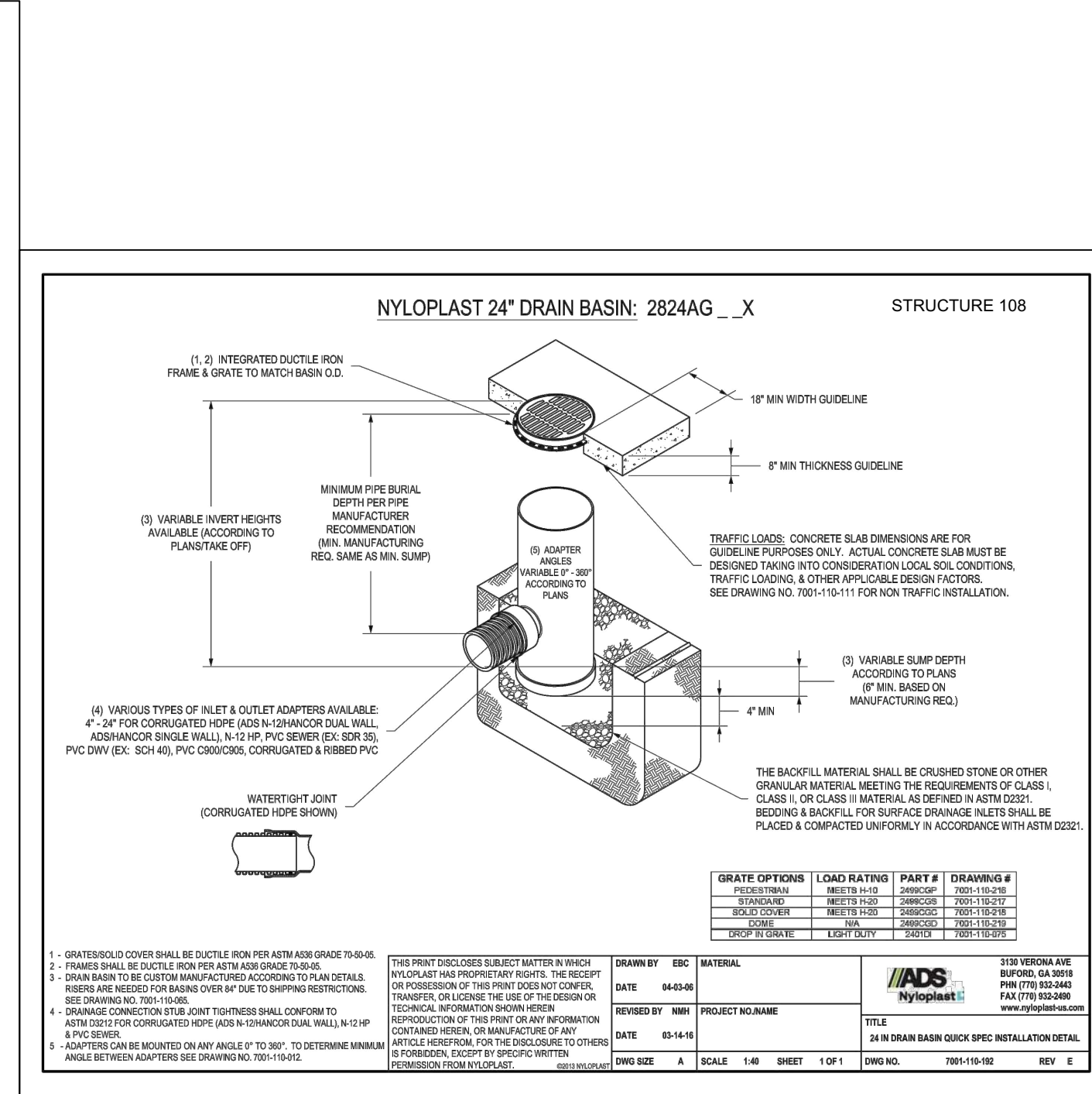
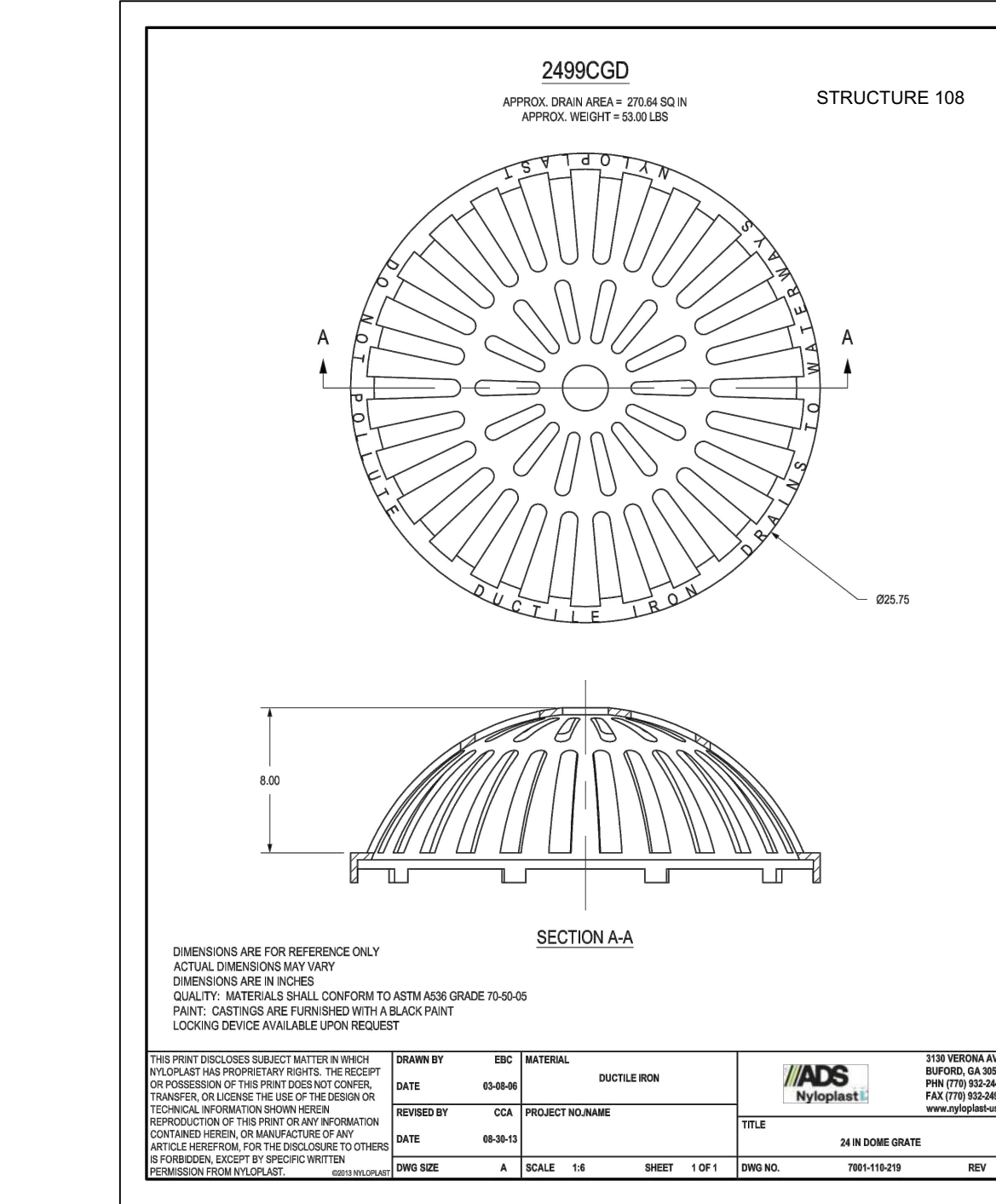
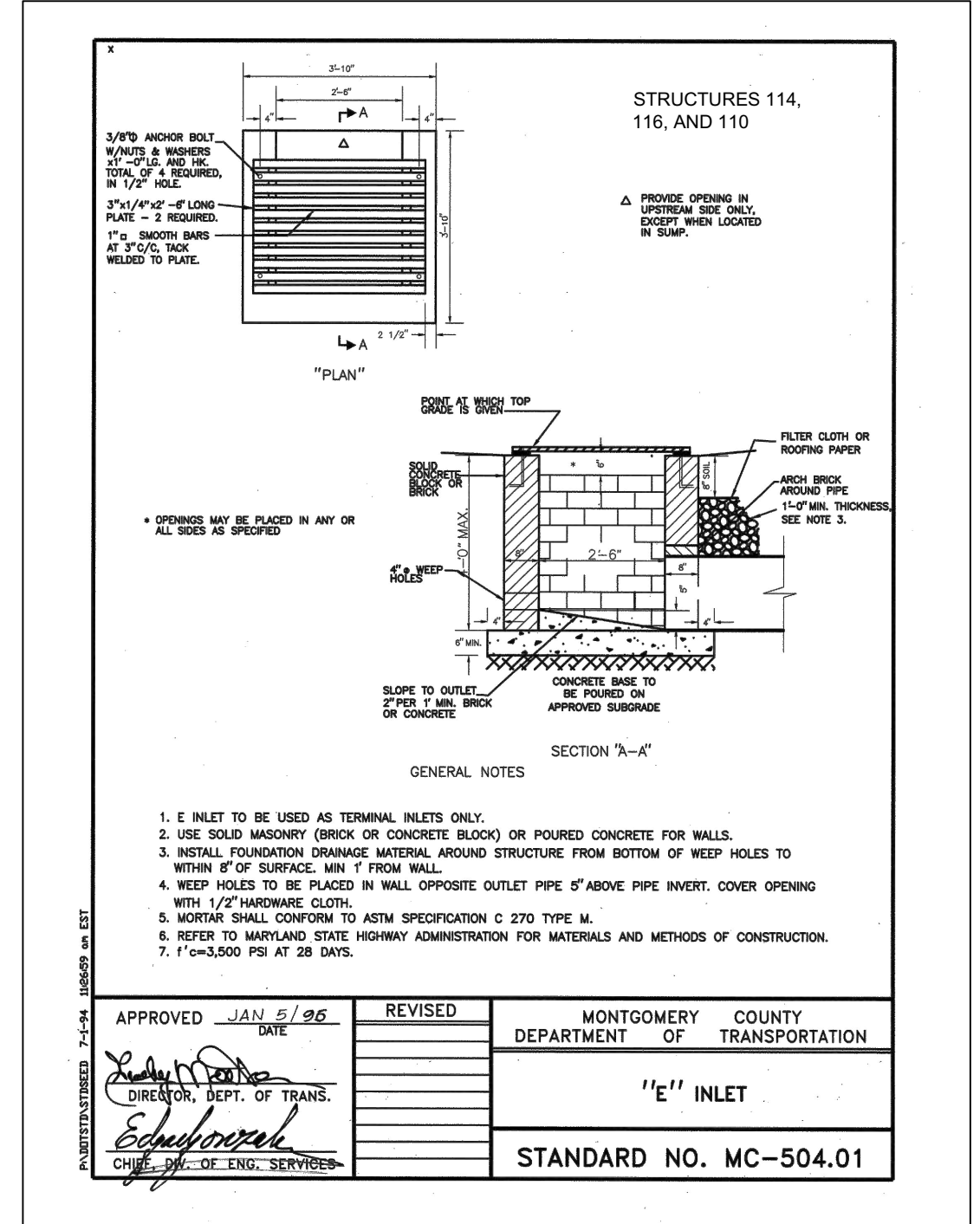
**REQUIRED AGGREGATE GRADATION (SHA TABLE 901A)**

SEIVE	MASS PERCENT PASSING		
	UNDERDRAIN	UNDERDRAIN	FILTER AGGREGATE
mm	U.S. STD.	M.S.H.A. COARSE AGGREGATE NO. 7	ASTM C-33 CONCRETE SAND
25.0	1 inch	-	-
19.0	3/4 inch	100	-
12.5	1/2 inch	90 - 100	-
9.5	3/8 inch	40 - 70	100
4.75	NO. 4	0 - 15	95 - 100
2.36	NO. 8	0 - 5	80 - 100
1.18	NO. 16	-	50 - 85
0.60	NO. 30	-	25 - 60
0.30	NO. 50	-	5 - 30
0.15	NO. 100	-	0 - 10
0.075	NO. 200	-	0 - 5

**BIORETENTION AREA PLANTING SOIL DOCUMENTATION REQUIREMENTS:**  
IF THE BIORETENTION AREA PLANTING SOIL IS PROVIDED BY A SUPPLIER, THE CONTRACTOR IS REQUIRED TO PROVIDE THE DESIGN ENGINEER WITH A CERTIFICATION FROM THE SUPPLIER VERIFYING THAT THE MATERIAL MEETS THE REQUIREMENTS AND SPECIFICATIONS SHOWN HEREON. IF THE BIORETENTION AREA PLANTING SOIL IS MIXED BY THE CONTRACTOR, THE CONTRACTOR IS REQUIRED TO NOTIFY THE DESIGN ENGINEER PRIOR TO ORDERING THE MATERIALS. PRIOR TO MIXING, THE CONTRACTOR SHALL PROVIDE A CERTIFICATION WITH ASSOCIATED TEST RESULTS THAT THE TOPSOIL, COMPOST AND PERLITE MEET THE RESPECTIVE SPECIFICATIONS AS OUTLINED HEREON. THE CONTRACTOR SHALL ALSO PROVIDE CERTIFICATION THAT THE MIXED PLANTING SOIL MEETS THE SPECIFICATIONS.

**SAND SPECIFICATIONS:**  
WASHED NATURAL SAND MEETING THE GRADATION REQUIREMENTS OF ASTM C33 FINE AGGREGATE CONCRETE SAND IS UTILIZED FOR STORMWATER MANAGEMENT APPLICATIONS. IN ADDITION TO THE ASTM C33 SPECIFICATION, SAND MUST MEET ALL OF THE FOLLOWING CONDITIONS:

- SAND MUST MEET GRADATION REQUIREMENTS FOR ASTM C-33 FINE AGGREGATE CONCRETE SAND. AASHTO M-6 GRADATION IS ALSO ACCEPTABLE.
- SAND MUST BE SILICA BASED; NO LIMESTONE BASED PRODUCTS MAY BE USED. IF THE MATERIAL IS WHITE OR GRAY IN COLOR, IT IS PROBABLY NOT ACCEPTABLE.
- SAND MUST BE CLEAN. NATURAL UNWASHED SAND DEPOSITS MAY BE USED. LIKEWISE, SAND THAT HAS BECOME CONTAMINATED BY IMPROPER STORAGE OR INSTALLATION PRACTICES WILL BE REJECTED.
- MANUFACTURED SAND OR STONE DUST IS NOT ACCEPTABLE UNDER ANY CIRCUMSTANCE.



**811**  
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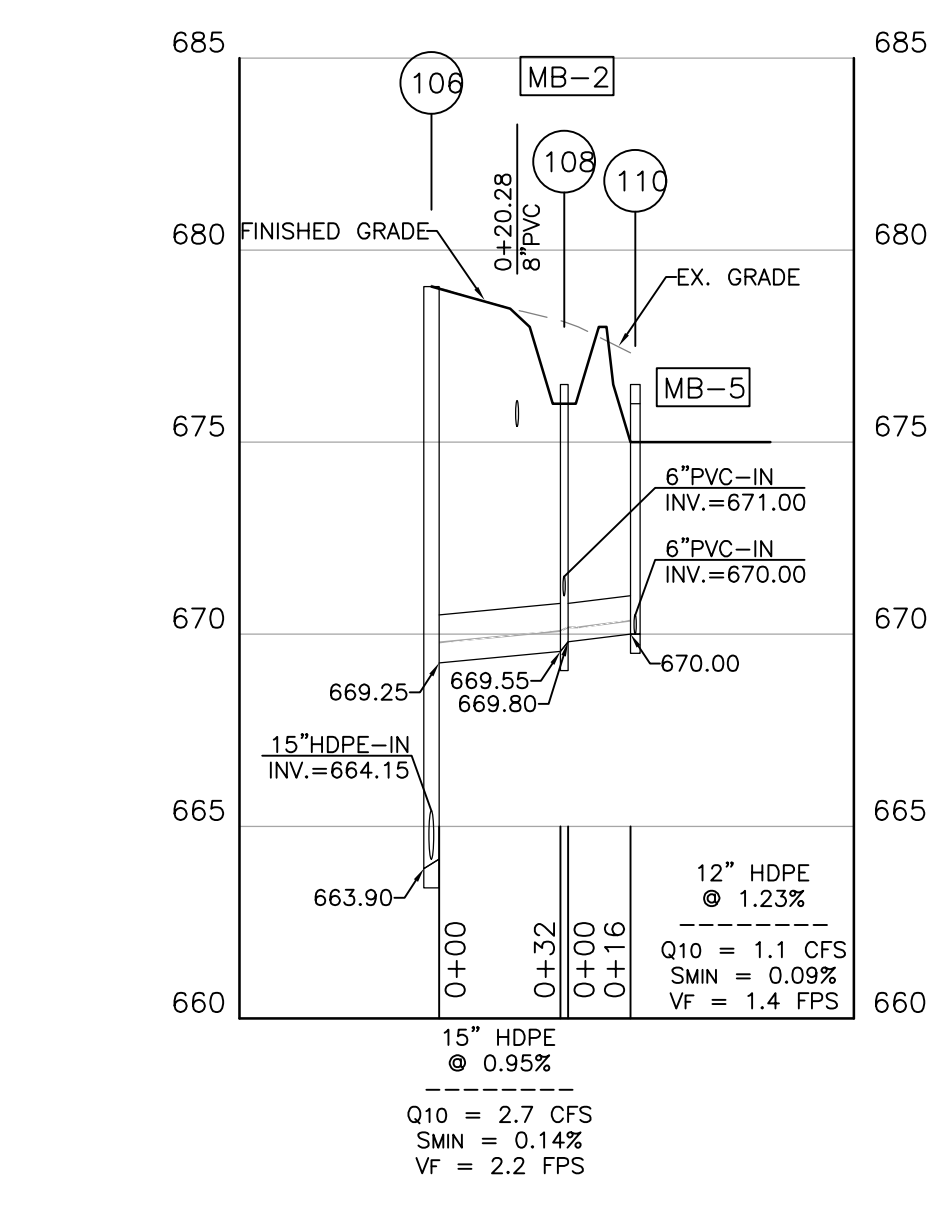
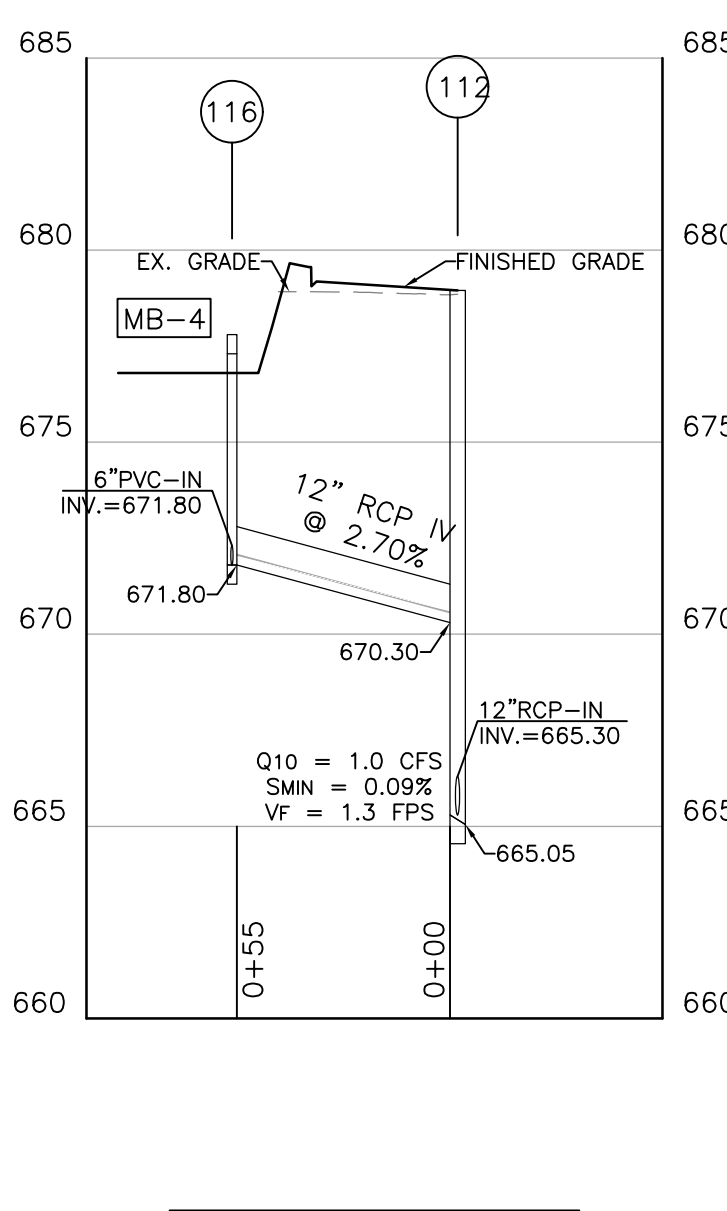
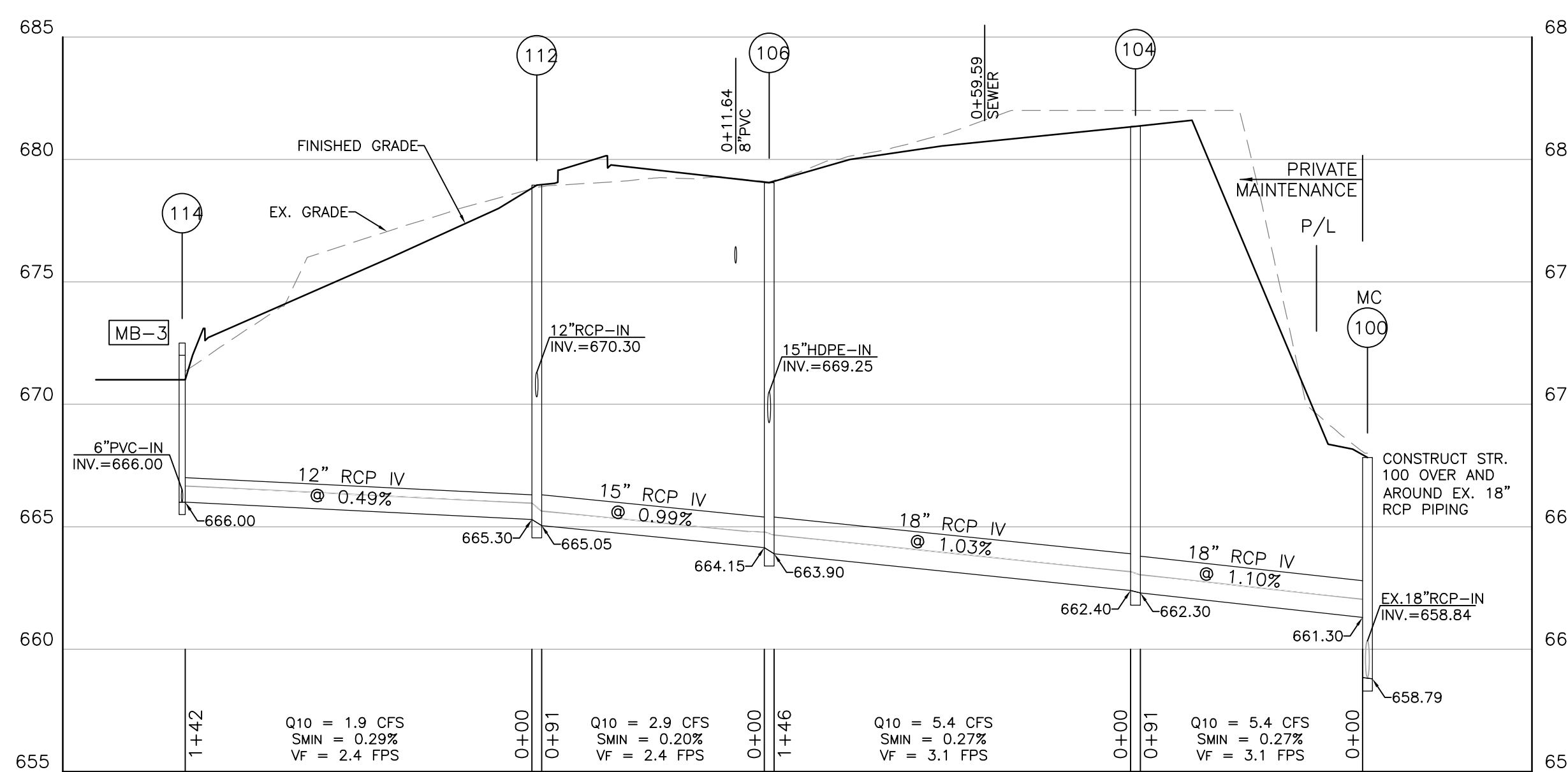
FOR UTILITY LOCATIONS  
CONTACT "ONE CALL" AT 811  
AT LEAST 48 HOURS  
PRIOR TO CONSTRUCTION

GENERAL NOTES FOR SMOOTH WALL  
HDPE STORM DRAIN

1. THE PIPE SHALL BE ADVANCE DRAINAGE SYSTEMS, INC. N12 PIPE OR HANCOCK H-Q OR HANCOCK H-Q SURE-LOK PIPE AND SHALL BE SOLID PIPE MEETING THE REQUIREMENTS OF AASHTO M 252, TYPE S AND AASHTO M 294, TYPE S. THE JOINTS SHALL BE SOIL TIGHT UNLESS RUBBER GASKETED JOINTS ARE SPECIFIED. THEN HDPE MUST HAVE WATER TIGHT GASKETED JOINTS. THE CONTRACTOR SHALL PROVIDE CERTIFICATION FOR THE HDPE PIPE IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION (SHA) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (STD. SPECS.), SECTION 905.01.
2. THE HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 2321 AND SHA STD. SPECS. SECTION 300-PIPE CULVERTS, EXCEPTING ANY REFERENCE TO MEASUREMENT AND PAYMENT.
3. THE TRENCH BOTTOM RECEIVING HDPE PIPE SHALL BE INSPECTED AND TESTED BY THE GEOTECHNICAL ENGINEER EVERY 400 LINEAR FEET, BUT NO FEWER THAN ONCE PER PIPE RUN FOR SUITABLE BEARING.
4. THE HDPE PIPE SHALL BE BEDDED ON A MINIMUM 4" LAYER OF COARSE AGGREGATE MEETING THE REQUIREMENTS OF SHA STD. SPECS. SECTION 901-AGGREGATES, TABLE 901 A, NO. 57, COMPACTED IN ACCORDANCE WITH ASTM D 2321.
5. THE HDPE PIPE HAUNCH ZONE AND INITIAL BACKFILL ZONE SHALL BE BACKFILLED WITH COARSE AGGREGATE MEETING THE REQUIREMENTS OF SHA STD. SPECS. SECTION 901-AGGREGATES, TABLE 901 A, NO. 57 OR OTHER MATERIALS IN ACCORDANCE WITH ASTM D 2321 AND ACCEPTABLE TO THE GEOTECHNICAL ENGINEER. THE COMPACTION SHALL BE IN ACCORDANCE WITH ASTM D 2321 AND SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER.
6. THE TRENCH RECEIVING HDPE PIPE SHALL BE BACKFILLED WITH SELECT BORROW MATERIAL MEETING THE REQUIREMENTS OF SHA STD. SPECS. SECTION 916-SOIL AND SOIL-AGGREGATE BORROW OR OTHER MATERIALS ACCEPTABLE TO THE GEOTECHNICAL ENGINEER. THE BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SHA STD. SPECS. SECTION 210-TAMPED FILL. THE COMPACTION SHALL BE IN ACCORDANCE WITH ASTM D 2321 AND SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER.
7. THE HDPE PIPE DEFLECTION SHALL BE MEASURED NO SOONER THAN THIRTY (30) DAYS AFTER INSTALLATION USING A NINE (9) POINT MANDREL. REMOVE, REPLACE AND RETEST ANY PIPE WITH A DEFLECTION GREATER THAN 5%.

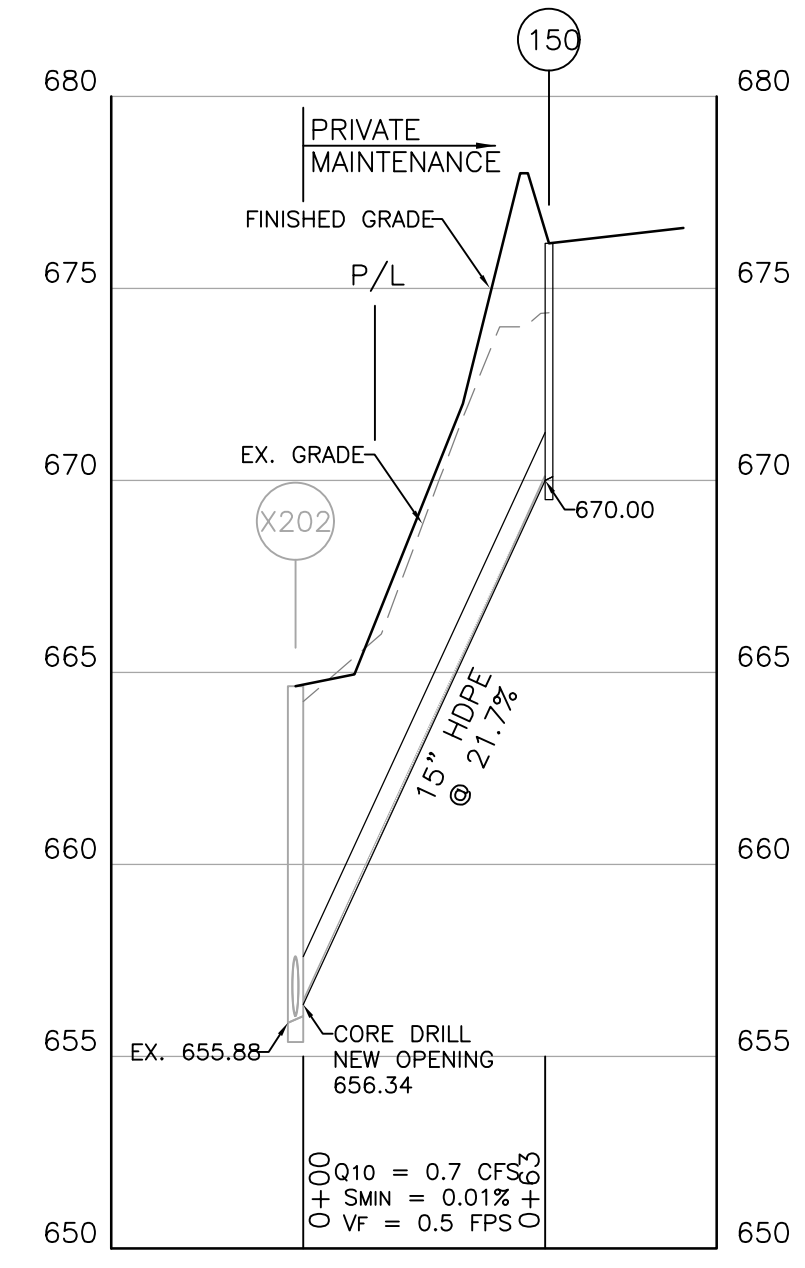
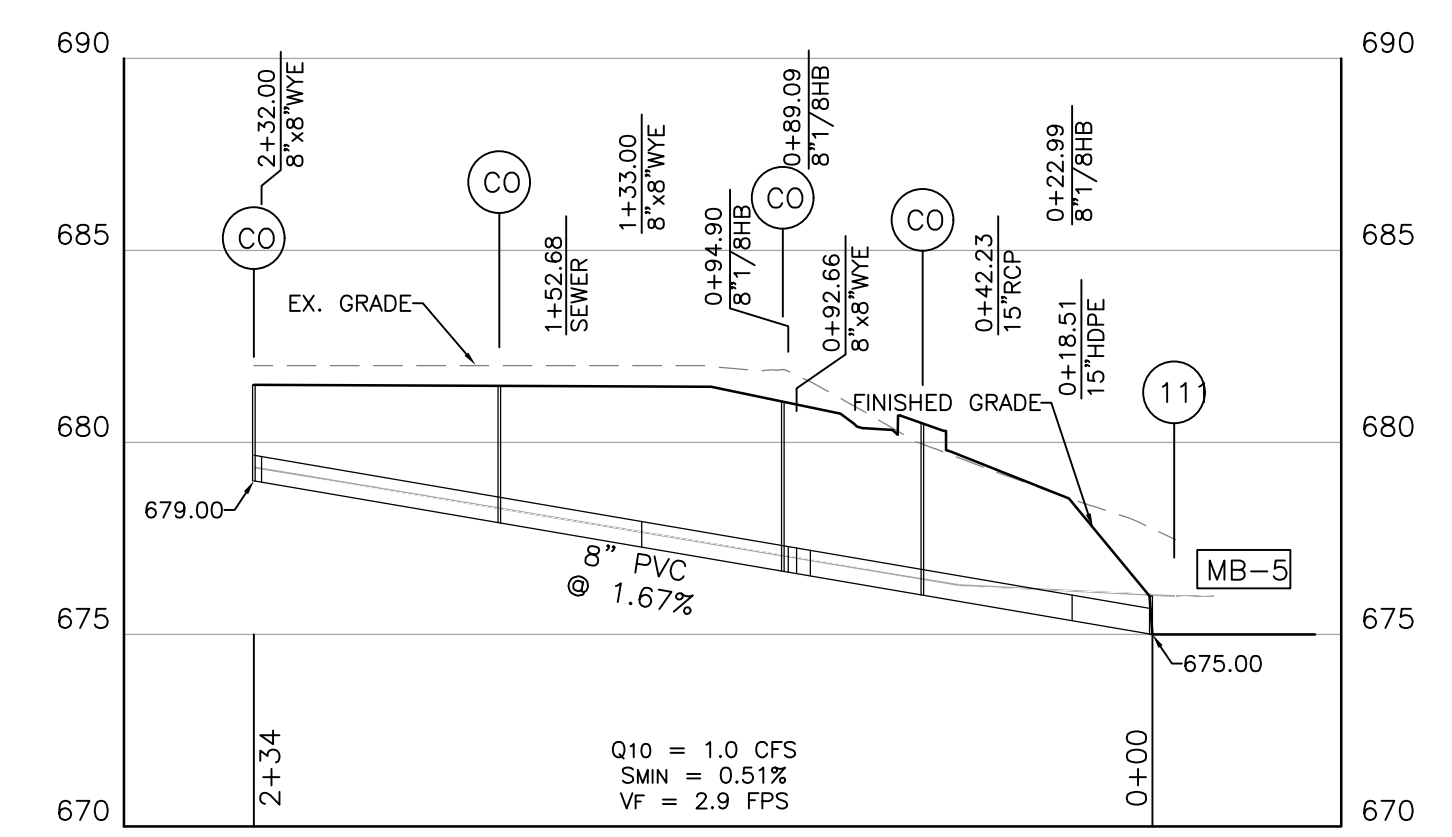
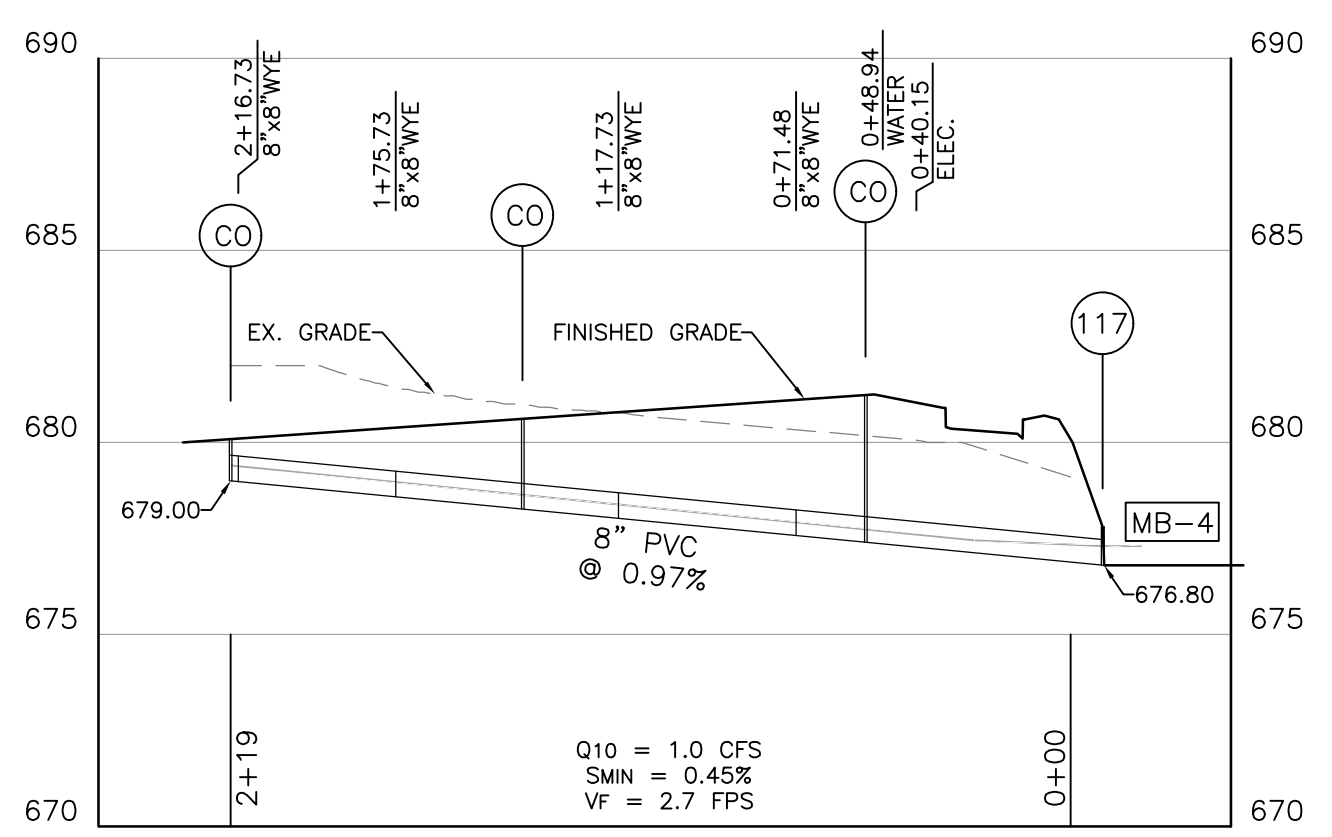
GENERAL NOTES FOR STORM DRAIN AND PAVING  
CONSTRUCTION: MONTGOMERY COUNTY DPS

1. ALL STORM DRAIN AND PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF MONTGOMERY COUNTY STANDARDS AND SPECIFICATIONS, AND THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION. STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION, AND ALL ADDENDA THERE TO.
2. TYPE OF STRUCTURE OR DETAIL REFERS TO THE LATEST DESIGN STANDARDS OF THE BOOK OF STANDARDS OF MONTGOMERY COUNTY DOT. STANDARD DETAILS OF THE VSSC, AND THE BOOK OF STANDARDS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, UNLESS OTHERWISE NOTED.
3. WHERE THE DROP ON THE MAIN LINE THROUGH A STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5 TO 1 OR FLATTER, A CROWNED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE TOP OF THE PIPES.
4. INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS. WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED OR LESS THAN 12" WHEN NOT SPECIFIED, CONTACT THE DESIGN ENGINEER. THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION, AND THE MCDPS ROW INSPECTOR. ANY UTILITY (WHETHER SHOWN OR NOT) DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY.
5. CONTRACTOR SHALL TEST PIT IN THE AREA OF KNOWN UTILITIES TO VERIFY THE SIZE, LOCATION AND TYPE OF UTILITY PRIOR TO PERFORMING ANY WORK. ALL UTILITY RELOCATIONS, WHETHER SHOWN ON THESE PLANS OR DISCOVERED IN THE FIELD, ARE THE RESPONSIBILITY OF THE OWNER. PRIOR TO PERFORMING ANY WORK, THE OWNER AND THE CONTRACTOR SHALL NEGOTIATE A COST FOR ANY DISCOVERED UTILITY WORK.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXCESS EARTH, DEMOLISHED CONCRETE, BITUMINOUS MATERIAL, RUBBISH, TRASH, FALLEN TREES, AND DEBRIS OFF SITE. BORROW FOR THE SITE SHALL BE OBTAINED IN A MANNER WHICH CONFORMS WITH NATURAL RESOURCES CONSERVATION SERVICE.
7. WHERE ANY PART OF THE STORM DRAIN SYSTEM IS LOCATED IN A FILL SECTION, PROVIDE SELECT FILL MATERIAL COMPACTED TO 95% AASHTO 199 DENSITY FROM APPROVED SUBGRADE TO THE STRUCTURE BOTTOM SLABS AND/OR THE PIPE BEDDING.
8. ALL STORM DRAIN PIPES SHALL BE INSTALLED WITH CLASS "C" BEDDING, AS SHOWN ON MCDOT, "RCP SUPPORTING STRENGTH" LOADING CHARTS IN APPENDIX C.
9. ALL ROADWAY PAVEMENT AFFECTED BY UTILITY TRENCHING OPERATIONS SHALL BE REPAIRED PER STANDARD MCDOT.
10. CALL "MISS UTILITY" AT 811 AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE LOCATION OF EXISTING UTILITIES.
11. ALL STANDARD STORM DRAIN STRUCTURES ARE SUBJECT TO MODIFICATIONS BY THE DESIGN ENGINEER TO MEET FIELD CONDITIONS HOWEVER, IF THIS IS A PUBLIC STRUCTURE, IT NEEDS COUNTY'S APPROVAL.
12. ALL PRECAST STRUCTURES AND SUPPLIERS OF "ALTERNATE EQUAL STRUCTURES" ARE TO BE PREVIOUSLY APPROVED BY MCDOT.
13. ALL INLETS SHALL BE PROVIDED WITH WEEP HOLES AND FOUNDATION DRAINAGE MATERIALS PER MCDOT.
14. ALL WORK WITHIN THE PUBLIC RIGHTS-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND THE MONTGOMERY COUNTY ROAD CODE AND THE STATE HIGHWAY ADMINISTRATION STANDARDS AND SPECIFICATIONS AND DETAILS, LATEST EDITIONS.
15. CONTRACTOR SHALL NOTIFY W.S.S.C. CUSTOMER CARE SECTION HEAD AT 301-206-8043 FORTY-EIGHT HOURS (48) IN ADVANCE OF BEGINNING ANY WORK IN THE VICINITY OF W.S.S.C. UTILITIES TO ARRANGE FOR INSPECTION AND, IF DESIRED, PROCUREMENT OF REQUIRED MATERIALS FROM W.S.S.C.
16. ALL PAVEMENT MARKING AND SIGNING SHALL BE DONE PER THE SEPARATE FINAL APPROVED AND PERMITTED PAVEMENT MARKING AND SIGNING PLAN.
17. ALL PUBLIC STREET TREE REMOVALS AND/OR PLANTINGS SHALL BE DONE PER THE LATEST SEPARATE APPROVED RIGHT OF WAY - TREE PROTECTION PLAN.
18. ALL ESD WORK IN THE PUBLIC RIGHT OF WAY SHALL BE PER THE LATEST SEPARATE APPROVED AND PERMITTED SOIL EROSION, SEDIMENT CONTROL AND SWM PLAN.
19. ALL SIDEWALK RAMPS ARE TO BE BUILT IN ACCORDANCE WITH MSHA STDS NO. MD 665.11, MD 665.12, OR MD 665.13. ALL SIDEWALK RAMPS IN RIGHT OF WAY TO HAVE DETECTABLE WARNING SURFACES (MD 665.40).
20. CUT AND PATCH WORK IS TO VERIFY THAT ALL UTILITIES, I.E. WATER, SEWER, GAS, ELECTRIC, ETC. ARE IN PLACE PRIOR TO CONSTRUCTION OF SUB-BASE AND/OR PAVING.
21. ALL UTILITIES ARE TO BE ADJUSTED TO GRADE AS NECESSARY BY THE CONTRACTOR.
22. FILLET PAVING AT INTERSECTIONS SHALL BE WARPED TO ASSURE POSITIVE DRAINAGE. ALL GUTTERS AND PAVING SHALL BE CONSTRUCTED TO HAVE POSITIVE DRAINAGE IN ALL AREAS.
23. JOINTS BETWEEN EXISTING BITUMINOUS PAVEMENT OR CONCRETE TO REMAIN AND PROPOSED PAVEMENT SHALL BE CLEAN, SMOOTH, UNBROKEN SAW CUT. SAW CUT JOINT SHALL BE TACKED PRIOR TO PLACEMENT OF NEW PAVEMENT AND FINAL JOINT SEALED.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE AVOIDANCE OF AND THE CLEAN UP OF DUST, DIRT, DEBRIS AND MUD ON ALL ROADS DUE TO VEHICLES ARRIVING AND LEAVING PROJECT SITES.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND DEBRIS OUT OF THE EXISTING STORM DRAINAGE SYSTEM DURING CONSTRUCTION, AND SHALL CLEAN OUT THE STORM DRAINAGE SYSTEM THOROUGHLY PRIOR TO FINAL ACCEPTANCE BY THE MONTGOMERY COUNTY AND MARYLAND SHA.
26. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MARYLAND SHA STANDARD SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. REFER TO SEPARATE TEMPORARY MAINTENANCE OF TRAFFIC PLAN.
27. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK CORRECTLY, IN CONFORMANCE WITH ALL CODE REQUIREMENTS.
28. PROPOSED PAVING, SIDEWALK AND C&G TO MEET EXISTING; TRANSITION TO BE MADE IN LINE AND ON GRADE OR AS DIRECTED BY THE DPS PERMIT INSPECTOR AND THE SHA PERMIT INSPECTOR.
29. MACRIS, HENDRICKS AND GLASCOCK P.A. MAKES NO GUARANTEE OR WARRANTY EITHER ASSUMED OR IMPLIED AS TO THE SUITABILITY OF THE PAVING SECTIONS SHOWN AND ASSUMES NO LIABILITY IN PROVIDING THE PAVING SECTIONS ON OUR DRAWINGS.
30. ALL DISTURBED AREAS (DUE TO CONTRACTOR'S ACTIVITIES) NOT UNDER PROPOSED PAVEMENTS SHALL BE STABILIZED BY PLACEMENT OR EXISTENCE OR MINIMUM OF 4 INCH DEPTH NATIVE TOPSOIL AND SEEDING AND MULCHING, PER THE SHA SPECIFICATIONS.
31. NO PIPE SHALL BE CONSTRUCTED INTO THE CORNER OF A SQUARE OR RECTANGULAR STORM DRAIN STRUCTURE. A MINIMUM CLEARANCE OF 6 (SIX) INCHES MUST BE PROVIDED BETWEEN AN INSIDE CORNER OF A STRUCTURE AND THE OUTSIDE DIAMETER OF THE PIPE. THIS REQUIREMENT APPLIES TO ALL STORM DRAIN STRUCTURES - WHETHER PRECAST, CAST IN PLACE, OR CONSTRUCTED OF BRICK.
32. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE CONTACTED IMMEDIATELY TO RESOLVE THE DISCREPANCY. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
33. ALL UNPAVED AREAS WITHIN THE LIMITS OF DISTURBANCE SHALL BE SEEDED OR SODDED AS DIRECTED.
34. CONTRACTOR SHALL REPAIR ALL DAMAGED IMPROVEMENTS AFFECTED BY ROADWAY WORK WITHIN THE RIGHT-OF-WAY. REPAIR WORK INCLUDES, BUT MAY NOT BE LIMITED TO, CURBS, PAVEMENT, SIDEWALKS, LANDSCAPING, ETC. ALL REPAIR WORK SHALL MEET CURRENT MONTGOMERY COUNTY SPECIFICATIONS.
35. ALL SIDEWALK AND HANDICAP RAMPS TO BE ADA COMPLIANT AND BE FREE OF ALL NON-ADA SURFACE FEATURES.
36. PRIVATE STORM DRAIN SYSTEMS SHOWN ON THIS PLAN HAVE NOT BEEN REVIEWED BY THE COUNTY. THE ENGINEER SHALL BE RESPONSIBLE TO ENSURE THAT ALL PRIVATE STORM DRAIN FACILITIES MEET COUNTY STANDARDS AND SPECIFICATIONS.
37. IT IS THE ENGINEER'S RESPONSIBILITY TO ENSURE ALL ELEVATION INFORMATION PROVIDED AGREES WITH APPROVED PLANS, GRADE ESTABLISHMENT PLAN, ROAD SECTIONS AND COUNTY REQUIREMENTS.
38. ALL STORM DRAIN CONSTRUCTION ON THE PLAN, EXCEPT DRIVEWAY CULVERTS, TO BE MAINTAINED BY MCDOT UNLESS OTHERWISE NOTED ON THE PLANS.
39. ALL FIELD MODIFICATIONS ARE SUBJECT TO MCDPS FIELD INSPECTOR APPROVAL.



SD PROFILES:  
HORZ. SCALE: 1"=50'  
VERT. SCALE: 1"=5'

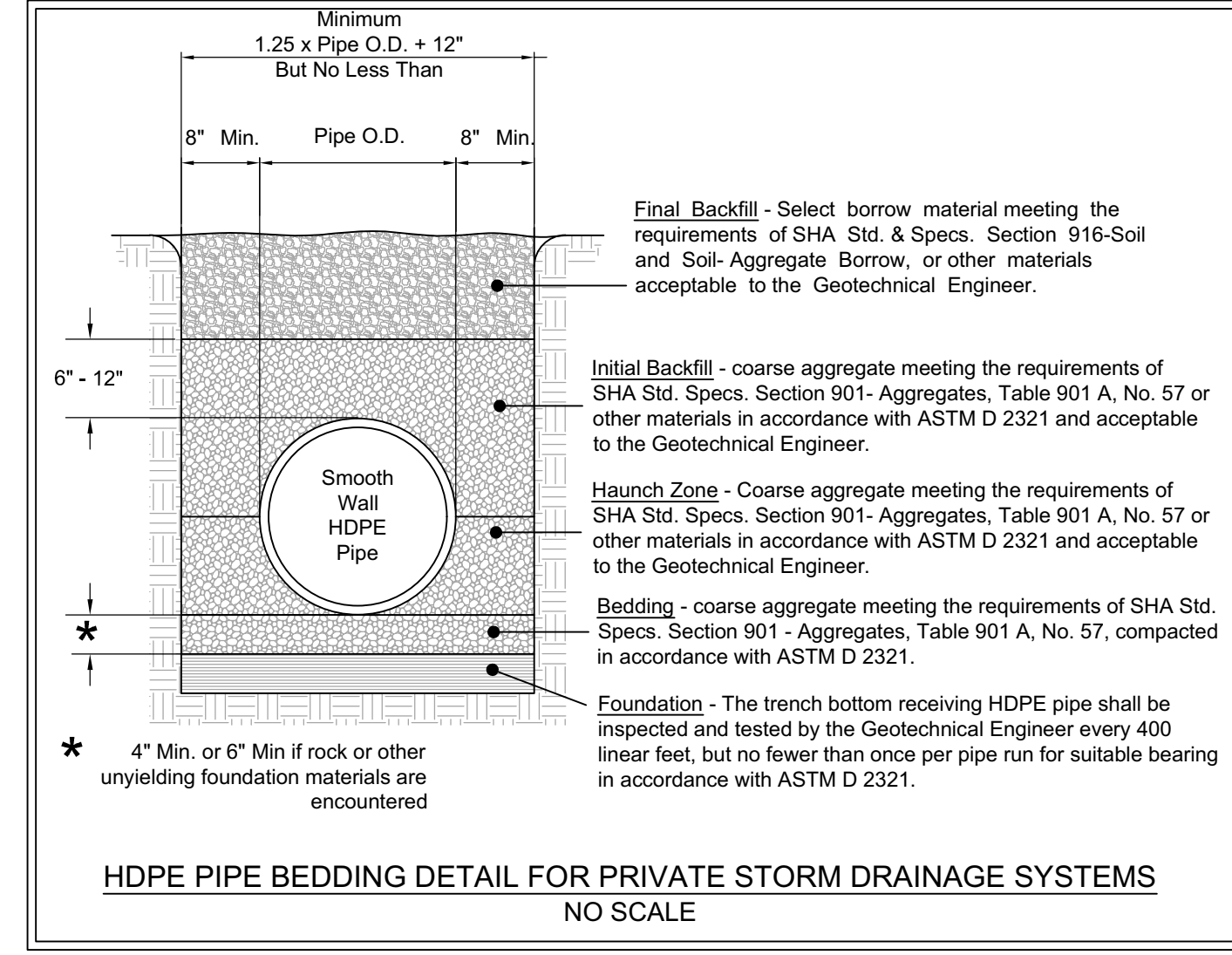
UNLESS OTHERWISE NOTED, ALL PROPOSED  
STORM DRAIN IS TO BE PRIVATELY MAINTAINED



PRIVATE STRUCTURE SCHEDULE - MISCELLANEOUS STRUCTURES - TO BE MAINTAINED BY JAISAI PROPERTIES, LLC				
No.	Type & Standard	Inside Dimensions or Diameter	Elev.	Notes
204	18" Nyloplast Drain Basin	18" Dia.	Rim = 661.80	18" Dome Grate Assembly
114	Precast "E" Inlet per MC - 504.01	2.5' x 2.5'	Slots = 672.00	-----
116	Precast "E" Inlet per MC - 504.01	2.5' x 2.5'	Slots = 677.30	-----
117	Precast "G" Endwall per MD-368.01	8" Dia.	-----	Modify for 8" Pipe Opening
112	Precast 48" Diameter Manhole per MD - 384.01	48" MH Base	Top of MH = 678.95	-----
111	Precast "G" Endwall per MD-368.01	8" Dia.	-----	Modify for 8" Pipe Opening
110	Precast "E" Inlet per MC - 504.01	2.5' x 2.5'	Slots = 676.00	-----
108	24" Nyloplast Drain Basin	24" Dia.	Rim = 676.50	24" Dome Grate Assembly
106	Precast 48" Diameter Manhole per MD - 384.01	48" MH Base	Top of MH = 679.05	-----
104	Precast 48" Diameter Manhole per MD - 384.01	48" MH Base	Top of MH = 681.35	-----
150	24" Nyloplast Drain Basin	24" Dia.	Rim = 676.17	24" Dome Grate Assembly

Precaster and Contractor must refer to the Approved Soil Erosion, Sediment Control and SWM Plans for any Temporary SESC Pipes and/or SWM Pipes and structures. MANHOLE COVER NOTE: All manhole covers for all inlets and manholes are to be per Montgomery County Standards per MC-501.01 and MC-510.01

PRIVATE MAINTENANCE PIPE SCHEDULE - TO BE MAINTAINED BY JAISAI PROPERTIES, LLC			
SIZE	TYPE	LENGTH (ft)	
6"	Perforated PVC Schedule 40	205	
8"	PVC Schedule 40	485	
12"	HDPE, N12 ST IB	16	
15"	HDPE, N12 ST IB	95	
12"	RCP, Class IV	197	
15"	RCP, Class IV	91	
18"	RCP, Class IV	237	



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

FOR UTILITY LOCATIONS  
CONTACT "ONE CALL" AT 811  
AT LEAST 48 HOURS  
PRIOR TO CONSTRUCTION

**MHG**  
Civil Engineers  
Land Planners  
Landscape Architects  
Land Surveyors

9220 Wightman Road, Suite 120  
Montgomery Village, MD 20886  
Phone: 301.670.0840  
www.mhga.com

Professional Certification  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the Laws of the State of Maryland, Lic. No. 16905 Exp. Date: 04.21.2024

**PROJECT TEAM**  
OWNER/APPLICANT:  
JAISAI PROPERTIES, LLC  
4007 BROADSTONE ST.  
FREDERICK, MD 21704  
PHONE: (240) 423-3615  
CONTACT: DR. PRAVEEN BOLARUM  
EMAIL: pbolarum@gmail.com

**CIVIL ENGINEER & LANDSCAPE ARCHITECT**  
MACRIS, HENDRICKS & GLASCOCK, P.A.  
9220 WIGHTMAN ROAD, SUITE 120  
MONTGOMERY VILLAGE, MD 20886  
PHONE: (301) 670-0840  
CONTACT: DYLAN MACRO, CDT  
EMAIL: DMACRO@MHGA.COM

**TRAFFIC ENGINEER:**  
WELLS + ASSOCIATES  
1110 BONFANT ST., SUITE 210  
SILVER SPRING, MD 20910  
PHONE: (301) 448-1335  
CONTACT: WILLIAM ZEID, PE  
EMAIL: WLZEID@WELLSANDASSOCIATES.COM

**LAND USE ATTORNEY:**  
LERCH, EARLY & BREWER, CHTD.  
7600 WISCONSIN AVENUE, SUITE 700  
BETHESDA, MD 20814  
PHONE: (301) 961-6095  
CONTACT: STUART R. BARR  
EMAIL: SRBARR@LERCHEARLY.COM

REVISIONS		
NO.	DESCRIPTION	DATE

TAX MAP E931 W58C 232N13

2TH ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

**HAMMER HILL, PARCEL P311**  
**CLARKSBURG HIGHLANDS, PART OF BLOCK D**

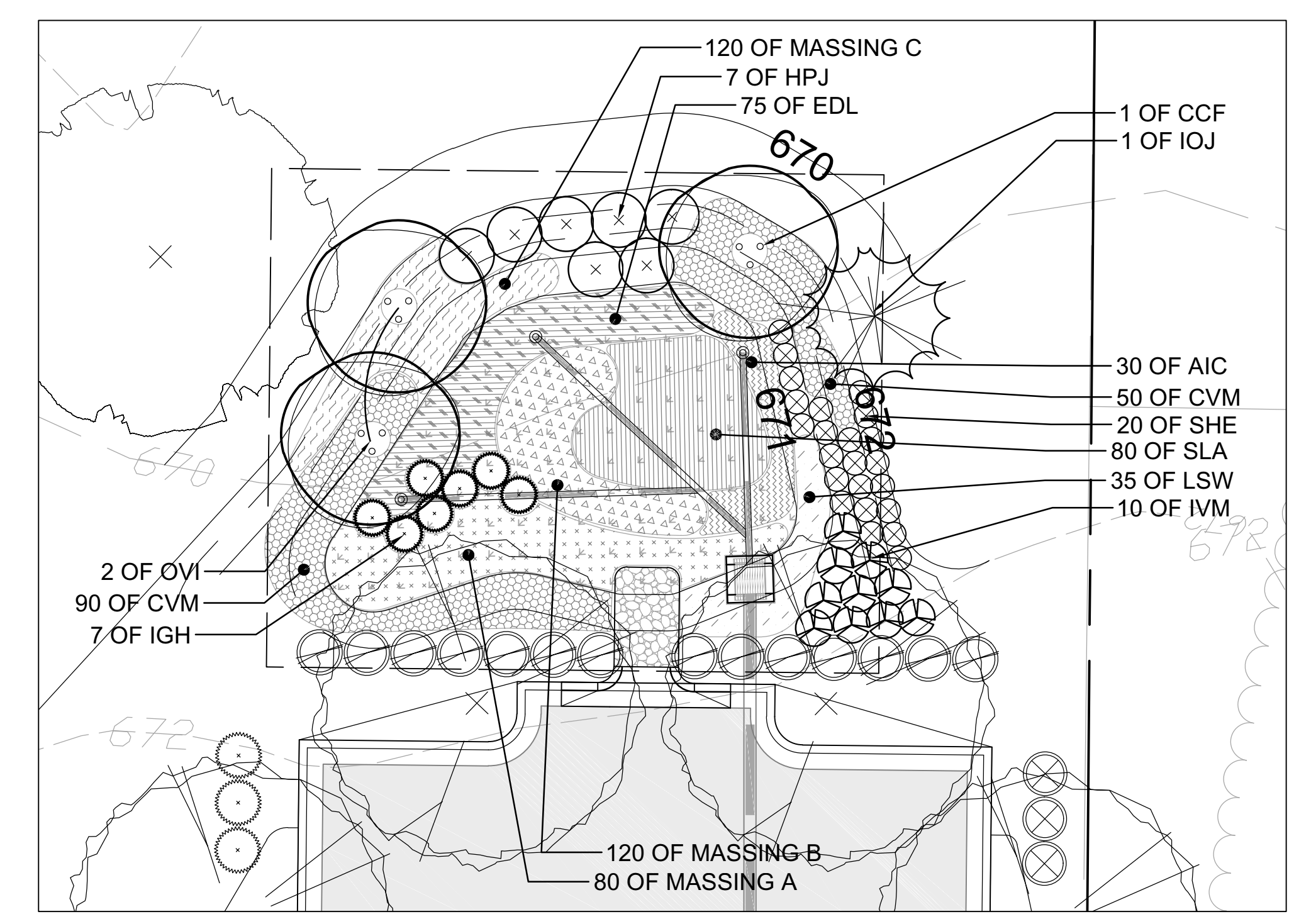
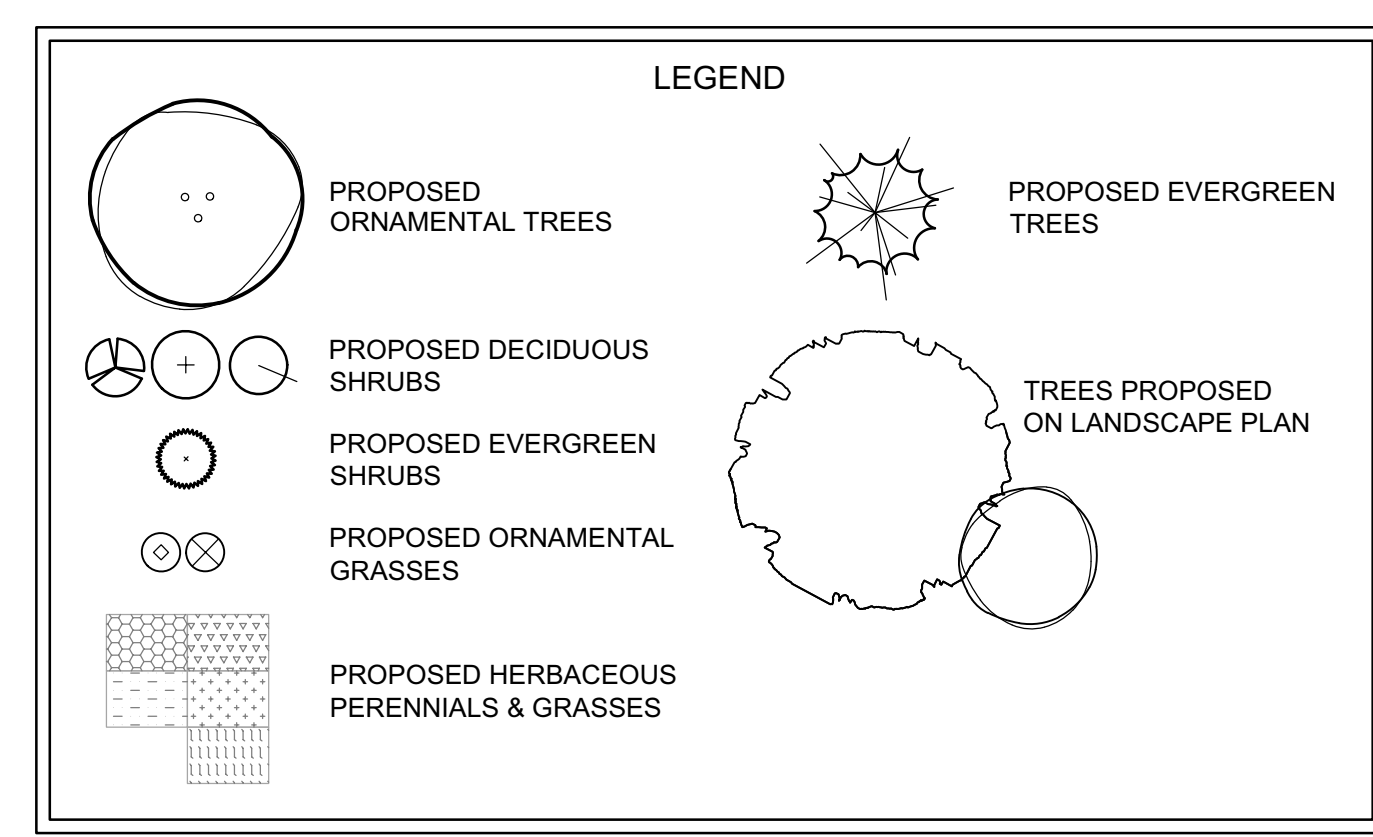
PROJ. MGR DCM  
DRAWN BY MSH  
SCALE AS NOTED  
DATE 03.20.2023

**FINAL SESC/SWM PLAN**  
**STORM DRAIN PROFILES, SCHEDULES, DETAILS, AND NOTES**

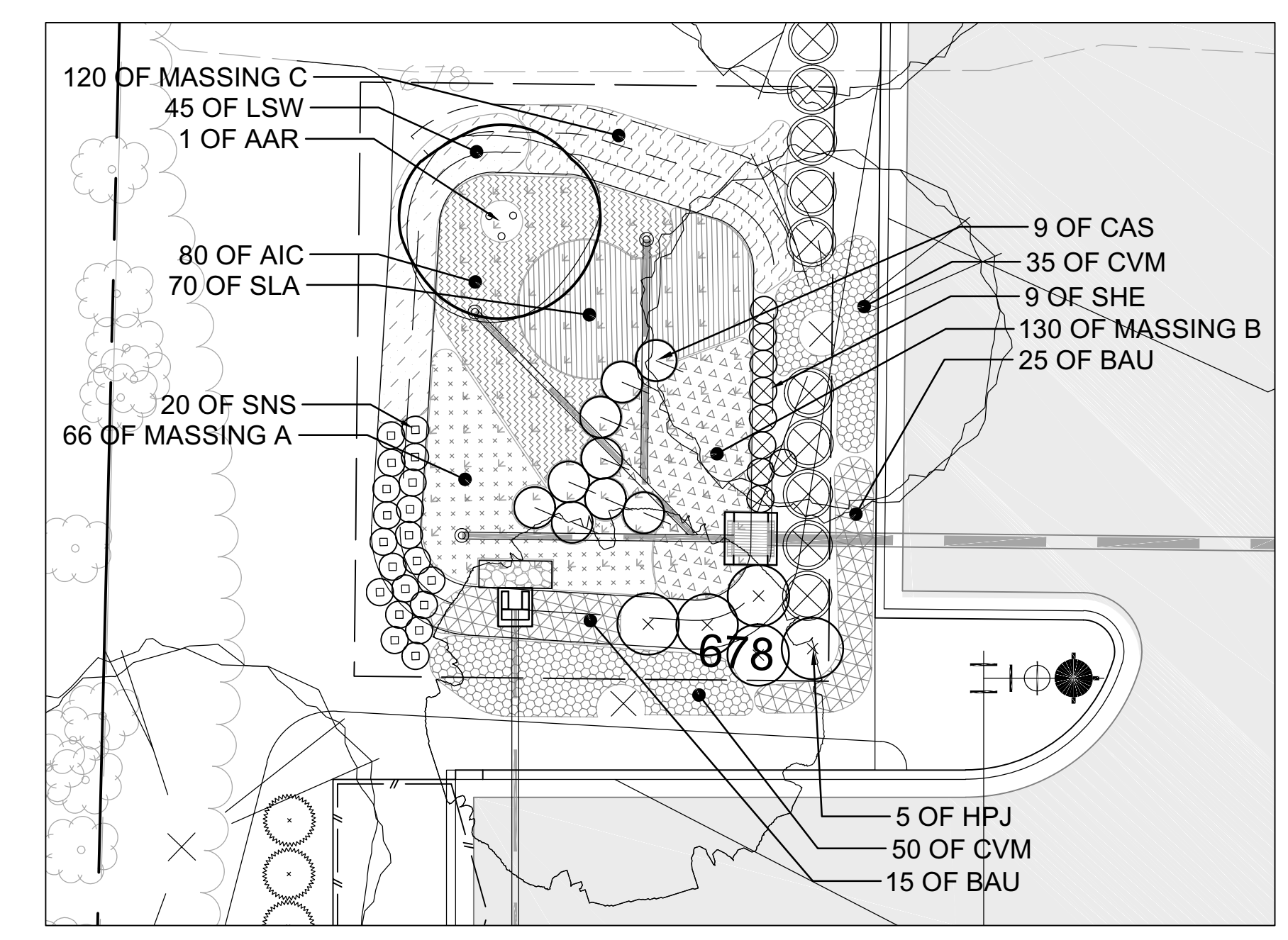
**C4.04**  
PROJECT NO. 2013.109.41  
SHEET NO. 7 OF 9

STORMWATER PLANT LIST								
KEY	QTY	BOTANICAL NAME	COMMON NAME	HYDROLOGY	INDICATOR STATUS	ROOT/INSTALL SIZE	SPACING	NOTES
<b>EVERGREEN AND ORNAMENTAL TREES</b>								
AAR	2	Amelanchier arborea	Downy Serviceberry	Regular Inundation	FAC-	B&B/ 8-10' ht.	AS SHOWN	Multi-stem
CCF	1	Cercis canadensis 'Forest Pansy'	Forest Pansy Eastern Redbud	Upland	UPL/FACU	B&B/ 6-8' ht.	AS SHOWN	Multi-stem
IOK	1	Ilex opaca 'Jersey Knight'	Jersey Knight American Holly	Irregular to Seasonal Inundation	FAC	B&B/ 8-9' ht.	AS SHOWN	
IOJ	4	Ilex opaca 'Jersey Princess'	Jersey Princess American Holly	Regular to Seasonal Inundation	FAC	B&B/ 8-9' ht.	AS SHOWN	
OVI	3	Oxydendrum arboreum	Sourwood	Upland	UPL	B&B/ 8-10' ht.	AS SHOWN	
<b>EVERGREEN AND DECIDUOUS SHRUBS</b>								
CAS	18	Clethra alnifolia 'Ruby Spice'	Ruby Spice Summersweet	Seasonal to Regular Inundation	FAC+	#3 Cont./ 24-30" ht.	3' o.c.	
HPJ	21	Hydrangea paniculata 'Jane'	Little Lime Hydrangea	Irregular Inundation	FAC	#3 Cont./ 24-30" ht.	4' o.c.	
IGH	15	Ilex glabra 'Chamzin'	Nordic Inkberry	Seasonal Inundation	FACW-	#3 Cont./ 24-30" ht.	3' o.c.	
IVM	21	Ilex virginica 'Merlot'	Merlot Virginia Sweetpire	Seasonal to Regular Inundation	OBL	#3 Cont./ 24-30" ht.	3' o.c.	
<b>HERBACEOUS PERENNIALS AND ORNAMENTAL GRASSES</b>								
AIC	205	Asclepias incarnata 'Cinderella'	Cinderella Swamp Milkweed	Seasonal Inundation	OBL	#SP4 Pot	18" o.c.	
MASSING A	91	Carex stricta	Tussock Sedge	Regular Inundation 0-3"	OBL	#1 Cont.	18" o.c.	Alternate plants per planting area outlined, 50/50 split
	91	Chelone glabra	White Turtlehead	Regular Inundation	OBL	#1 Cont.	18" o.c.	
BAU	65	Baptisia australis	Blue False Indigo	Irregular and Upland	UPL	#1 Cont.	24" o.c.	
CVM	305	Coreopsis verticillata 'Moonbeam'	Moonbeam Whorled Tickseed	Regular Inundation	FACW	#1 Cont.	18" o.c.	
EDL	175	Eupatorium dubium 'Little Joe'	Little Joe Joe-Pye Weed	Irregular Inundation	FACW	#1 Cont.	18" o.c.	
MASSING B	255	Carex scoparia	Pointed Broom Sedge	Regular Inundation 0-3"	FACW	#1 Cont.	12" o.c.	Alternate plants per planting area outlined, 50/50 split
	255	Iris versicolor	Blue Flag Iris	Regular Inundation 0-6"	OBL	#SP4 Pot	12" o.c.	
LSW	285	Liatris spicata 'Floristan White'	Floristan White Blazing Star	Irregular Inundation and Upland	FAC+	#1 Cont.	18" o.c.	
MASSING C	240	Sisyrinchium angustifolium	Blue-eyed Grass	Irregular Inundation and Upland	FACW-	#SP4 Pot	12" o.c.	Alternate plants per planting area outlined, 50/50 split
	240	Salvia lyrata	Lyreleaf Sage	Upland	FACU/UPL	#SP4 Pot	18" o.c.	
SHE	75	Sporobolus heterolepis	Prairie Dropseed	Upland	UPL	#1 Cont.	18" o.c.	
SNS	38	Sorghastrum nutans 'Sioux Blue'	Blue Indian Grass	Upland	FACW/ UPL	#1 Cont.	24" o.c.	

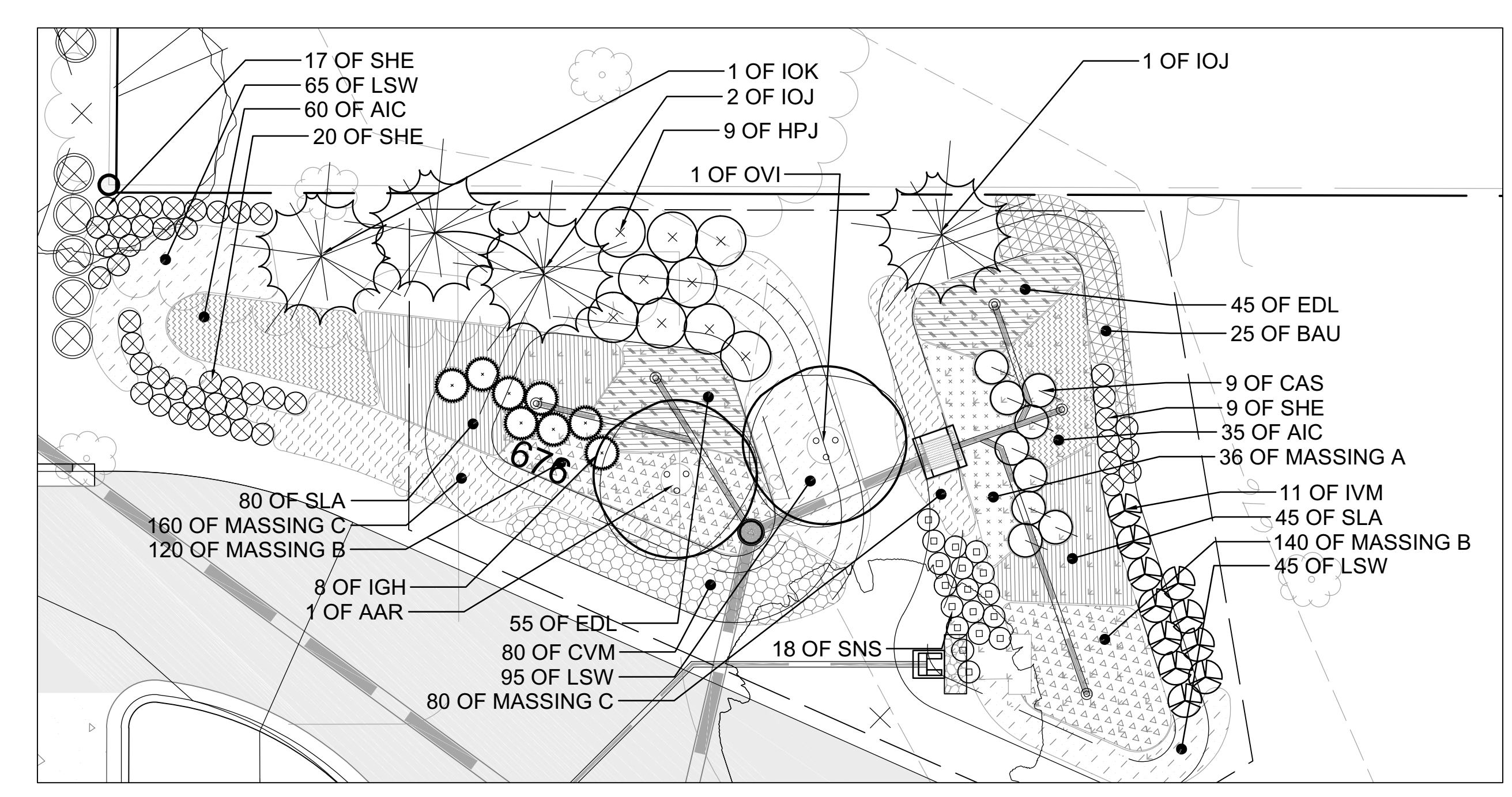
Note: Plant counts are provided for the convenience of the contractor. The plan dominates on any discrepancies between the table and the plan. Contractor is responsible for verifying the counts and bringing any discrepancies to the attention of the landscape architect and client before proceeding. Plant species are selected and located based in part on their tolerance of inundation. The planting plan must be carefully followed to ensure good plant survival and acceptance of landscaping upon completion of the project. Failure to install the specified plants in the specified locations will result in the rejection of the entire facility plantings, and the contractor will be required to reinstall the plantings as shown on the plans at their own expense. Substitutions are not allowed without prior approval of the landscape architect. See note #22 of the Planting Notes regarding appropriate planting seasons for species within the stormwater facilities.



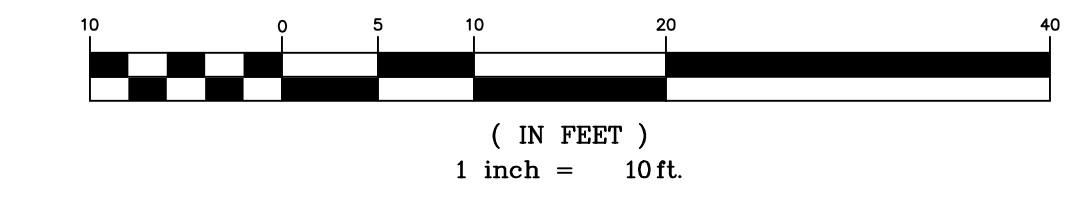
Micro-Bioretentation Facility MB-3: Planting Plan  
SCALE: 1" = 10'



Micro-Bioretentation Facility MB-4: Planting Plan  
SCALE: 1" = 10'



Micro-Bioretentation Facility MB-2 & MB-5: Planting Plan  
SCALE: 1" = 10'  
GRAPHIC SCALE



REVISIONS		
NO.	DESCRIPTION	DATE

TAX MAP EW31 WSSC 232RW13

2TH ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

HAMMER HILL, PARCEL P311  
CLARKSBURG HIGHLANDS,  
PART OF BLOCK D

PROJ. MGR DCM  
DRAWN BY CEB  
SCALE AS NOTED  
DATE 08.11.2022

FINAL SESC/SWM PLAN  
PLANTING PLAN

C4.05  
PROJECT NO. 2013.109.41  
SHEET NO. 8 OF 9

NO.	DESCRIPTION	DATE

PLANTING NOTES

GENERAL

- THIS PLAN IS FOR PLANTING PURPOSES ONLY.
- THE SPECIFICATIONS FOR ALL WORK INCLUDED IN THIS CONTRACT SHALL BE FROM THE LANDSCAPE SPECIFICATION GUIDELINES BY THE LANDSCAPE CONTRACTORS ASSOCIATION MD-DC-VA (LCA), CURRENT EDITION, UNLESS OTHERWISE NOTED ON THESE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING CONSTRUCTION FOR LOCATION OF ALL UTILITY LINES. TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM SEWER/WATER CONNECTIONS. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY AND ALL PUBLIC OR PRIVATE UTILITIES.
- THE CONTRACTOR SHALL LAY OUT AND CLEARLY STAKE ALL PROPOSED IMPROVEMENTS INCLUDED ON THIS PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR SOIL TESTING AND PREPARATION AS OUTLINED IN THE CURRENT EDITION OF THE LANDSCAPE SPECIFICATION GUIDELINES BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MD-DC-VA (LCA). PREPARATION SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE ADDITION OF SOIL AMENDMENTS, FERTILIZERS AND SUPPLEMENTAL TOPSOIL AS INDICATED BY TESTING; AND SUBGRADE, FINAL GRADE AND FINISH GRADE SOIL PREPARATION.
- QUANTITIES AS SHOWN ON THE PLAN SHALL GOVERN OVER PLANT LIST QUANTITIES. THE CONTRACTOR SHALL VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN. THE LANDSCAPE ARCHITECT SHALL BE ALERTED BY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO FINAL BID NEGOTIATION. UNIT PRICES FOR ALL MATERIAL SHALL BE SUPPLIED TO THE OWNER AT BIDDING TIME.
- NO EXISTING TREES SHALL BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER EXCEPT WHERE NOTED ON PLANS. NO GRUBBING SHALL OCCUR WITHIN EXISTING TREE AREAS.
- ALL CONTRACTORS SHALL BE REQUIRED TO COMPLETELY REMOVE ALL TRASH, DEBRIS AND EXCESS MATERIALS FROM THE WORK AREA AND THE PROPERTY (ESPECIALLY AT ALL CURB, GUTTERS AND SIDEWALKS) DAILY DURING INSTALLATION.
- ROOT STOCK OF THE PLANT MATERIAL SHALL BE KEPT MOIST DURING TRANSPORT FROM THE SOURCE TO THE JOB SITE AND UNTIL PLANTED.

PLANT SELECTION

- ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT. THE OWNER SHALL RECEIVE A TAG FROM EACH PLANT SPECIES AND A LIST OF PLANT SUPPLIERS. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL MEET THE NORMAL REQUIREMENTS FOR THE VARIETY PER THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY AMERICANHORK. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL SUBSTITUTIONS OF PLANT MATERIAL ARE TO BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER AND M-NCPPC. FAILURE TO OBTAIN SUBSTITUTION APPROVAL IN WRITING MAY RESULT IN LIABILITY TO THE CONTRACTOR.
- ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED, FREE OF DISEASE, INSECT EGGS, AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEMS. IN ADDITION, ALL CONTAINER-GROWN MATERIAL SHALL BE WELL-ROOTED AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TIPS WHICH ARE GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- PLANTING STOCK, SIZES, AND DENSITY SHALL BE CONSISTENT WITH THE APPROVED LANDSCAPING PLAN. SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF THAT PLANT.
- SHADE TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT FLARE TO THE TOP OF MATURE GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "Y" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.
- WHERE TREES ARE TO BE PLANTED IN ROWS, THEY SHALL BE UNIFORM IN SIZE AND SHAPE.
- SHRUBS: HEIGHT SHALL BE MEASURED FROM THE GROUND TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE SHRUB MASS. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH.

BED PREPARATION

- NO PLANTING MATERIAL SHALL BE INSTALLED UNTIL THE MICRO-BIORETENTION FACILITY HAS BEEN FLOODED (PUDDLED) AND RESTORED TO THE PROPER DESIGN ELEVATION.
- ALL TREE PITS, SHRUB BEDS AND PREPARED NURSERY BEDS ARE TO BE EXCAVATED IN ACCORDANCE WITH THE PLANTING DETAILS.
- THE DIAMETER OF THE PLANTING PIT MUST BE A MINIMUM OF TWO TIMES THE DIAMETER OF THE ROOT BALL OF THE TREE.
- THE PLANTING PIT SHALL BE DEEP ENOUGH TO ALLOW BETWEEN 2" - 3" OF THE EXPOSED ROOT FLARE TO BE ABOVE THE EXISTING GRADE AFTER SETTLING. LOOSE SOIL AT THE BOTTOM OF THE PIT SHALL BE TAMPED BY HAND.

PLANT INSTALLATION

- FOR INFORMATION REGARDING APPROPRIATE PLANTING PERIOD FOR DIFFERENT SPECIES, SEE THE LATEST EDITION OF THE LANDSCAPE SPECIFICATION GUIDELINES FROM THE LANDSCAPE CONTRACTORS ASSOCIATION, SECTION 1.12 (A-G).
- GROUPS OF SHRUBS SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES. ALL MULCHED BED EDGES SHALL BE CURVILINEAR IN SHAPE FOLLOWING THE CONTOUR OF THE PLANT MASS UNLESS OTHERWISE NOTED. TREES LOCATED WITHIN FOUR FEET OF SHRUB BEDS SHALL SHARE SAME MULCH BED.
- ALL TREES ARE TO BE LOCATED A MINIMUM DISTANCE OF 5' FROM ALL UTILITY BOXES, 5' FROM A STORM DRAIN INLET OR MANHOLE, 10' FROM A FIRE HYDRANT, 15' FROM ANY PUBLIC STREET LIGHT, 5' FROM ANY DRIVEWAY APRONS, 20' FROM ANY TRAFFIC CONTROL SIGN, AND AT LEAST 30' FROM ANY INTERSECTION.
- TREES SHALL BE LOCATED A MINIMUM OF 3 FEET FROM WALLS AND WALKS WITHIN THE PROJECT. IF CONFLICTS ARISE BETWEEN ACTUAL SIZE OF AREA AND PLANS, THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE OWNER OR LANDSCAPE ARCHITECT WILL RESULT IN THE CONTRACTOR'S LIABILITY TO RELOCATE MATERIALS.
- LARGE GROWING PLANTS ARE NOT TO BE PLANTED IN FRONT OF WINDOWS, UNDER BUILDING OVERHANGS, OR IN DRAINAGE SWALES. SHRUBS PLANTED NEAR HVAC UNITS TO BE LOCATED SO THAT SHRUBS AT MATURITY WILL MAINTAIN 1-FOOT AIRSPACE BETWEEN UNIT AND PLANT.
- THE CONTRACTOR MAY SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. FINISHED PLANTING BEDS SHALL BE GRADED SO AS NOT TO IMPEDE DRAINAGE AWAY FROM BUILDINGS.
- ANY PLANTING WHICH IS SHOWN ADJACENT TO CONDENSER UNITS SHALL BE PLANTED AS REQUIRED TO SCREEN THE UNITS. SHOULD THE CONDENSER UNITS BE INSTALLED IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE PLAN IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL THE MATERIALS AROUND THE CONDENSERS AND TO ADJUST OTHER ADJACENT PLANTING ACCORDINGLY.
- SHRUBS SHALL BE TRIANGULARLY SPACED AT SPACING SHOWN ON PLANTING PLANS WHERE MASSING IS INDICATED
- THE PLANT SHALL BE REMOVED FROM THE CONTAINER AND PLACED IN THE PLANTING PIT BY LIFTING AND CARRYING THE PLANT BY ITS ROOT BALL (NEVER LIFT BY BRANCHES OR TRUNK). TAGS AND TWINE ARE TO BE REMOVED AND BURLAP IS TO BE ROLLED BACK ONE-HALF ON ALL B&B PLANT MATERIAL.
- SET THE PLANT STRAIGHT AND IN THE CENTER OF THE PIT SO THAT THE EXPOSED ROOT FLARE IS APPROXIMATELY 2" - 3" ABOVE THE FINAL GRADE.
- BACKFILL PLANTING PIT WITH PLANTING MEDIA.
- MAKE SURE THE PLANT REMAINS STRAIGHT DURING BACKFILLING PROCEDURE.
- NEVER COVER THE TOP OF THE ROOT BALL WITH SOIL. SOIL SHALL TAPER FROM THE TOP EDGE OF THE ROOT BALL TO THE PROPOSED GRADE. WHERE THE ROOT BALL MEETS THE PROPOSED GRADE, MOUND SOIL IN A 3"-HIGH RING AROUND THE EXPOSED ROOT BALL. CROWN OF ROOT FLARE SHALL BE 1/2" - 3" HIGHER (AFTER SETTLING) THAN ADJACENT SOIL.
- TREE STAKING AND GUYING SHALL BE DONE PER DETAILS, OR, IF CONDITIONS REQUIRE IT, TREES MAY BE BRACED BY USING ONE OF THE METHODS FOUND IN THE MOST RECENT EDITION OF THE LANDSCAPE SPECIFICATION GUIDELINES BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MD-DC-VA, SECTION 5.0 BRACING PROCEDURES. TREES THAT MUST BE BRACED SHALL INCLUDE BUT NOT BE LIMITED TO THOSE PLANTED IN THE ENGINEERED SOIL MEDIA IN THE BOTTOM OF A STORMWATER MANAGEMENT FACILITY AND THOSE PLANTED ON SLOPE OF A FACILITY. ALL OTHER TREES SHALL BE EVALUATED FOR BRACING ON AN INDIVIDUAL BASIS. AFTER ONE YEAR, IT IS THE OWNER'S RESPONSIBILITY TO REMOVE ALL BRACING MATERIALS UNLESS A TREE'S GROWING CONDITIONS WARRANT OTHERWISE
- SPREAD MULCH. THE MULCH SHALL BE DOUBLE SHREDDED HARDWOOD BARK FOR TREES AND SHRUBS.

PLANTING NON-GRASS GROUND COVER

- THE GROUND COVER PLANTING HOLES SHALL BE DUG THROUGH THE MULCH WITH ONE OF THE FOLLOWING: HAND TROWEL, SHOVEL, BULB PLANTER, OR HOE (THIS DOES NOT APPLY TO GRASSES OR LEGUMES).
- BEFORE PLANTING, BIODEGRADABLE POTS SHALL BE SPLIT AND NON-BIODEGRADABLE POTS SHALL BE REMOVED. ROOT SYSTEMS OF ALL POTTED PLANTS SHALL BE SPLIT OR CRUMBLED.
- THE GROUND COVER SHALL BE PLANTED SO THAT THE ROOTS ARE SURROUNDED BY THE SOIL BELOW THE MULCH. POTTED PLANTS SHALL BE SET SO THAT THE TOP OF THE POT IS EVEN WITH THE EXISTING GRADE. THE ROOTS OF BARE ROOT PLANTS SHALL BE COVERED TO THE CROWN.
- THE ENTIRE GROUND COVER BED SHALL BE THOROUGHLY WATERED.

PLANTING GRASS GROUND COVER

- GRASSES AND LEGUME SEED SHALL BE TILLED INTO THE SOIL TO A DEPTH OF AT LEAST 1/2 INCH BY EITHER HARROWING OR DISCING. GRASS AND LEGUME PLUGS SHALL BE PLANTED FOLLOWING THE NON-GRASS GROUND COVER PLANTING TECHNIQUES ABOVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REGRADE, HYDRO-SEED, STRAW MULCH, AND TACK ALL LAWN AREAS DISTURBED AS THE RESULT OF HIS WORK.

CLEAN UP

- FINAL CLEAN UP SHALL BE THE RESPONSIBILITY OF THE INSTALLER AND CONSIST OF REMOVING ALL TRASH AND MATERIALS INCIDENTAL TO THE PROJECT AND PROPERLY DISPOSING OF THEM OFF SITE. IN ADDITION THE CONSTRUCTION PROCEDURE SHALL NOT DAMAGE ANY AREAS OF EXISTING PLANTS WHICH ARE TO REMAIN
- THERE SHALL BE NO OPEN BURNING ON-SITE.
- THE CONTRACTOR SHALL REPLACE OR REPAIR AT NO COST TO THE OWNER, ALL SITE AREAS OR SURROUNDING ITEMS DAMAGED BY WORK OF HIS CONTRACTS.
- DURING LANDSCAPE WORK, STORE MATERIALS AND EQUIPMENT WHERE DIRECTED. KEEP PAVEMENT CLEAN AND WORK AREAS IN AN ORDERLY CONDITION.

POST PLANTING

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PLANT MAINTENANCE, INCLUDING SHRUBS AND GROUND COVER, AND SHALL MAINTAIN AREA IN A WEED AND DEBRIS FREE CONDITION, THROUGHOUT THE ONE YEAR GUARANTEE PERIOD.
- THE CONTRACTOR SHALL ENSURE THAT TREES REMAIN VERTICAL AND UPRIGHT FOR THE DURATION OF THE GUARANTEE PERIOD.
- DEAD PLANTS ARE TO BE REMOVED FROM THE JOB BY THE CONTRACTOR ON A MONTHLY BASIS. THE CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
- THE CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE IMPROVEMENTS, INCLUDING SEEDING, FOR ONE FULL YEAR AS REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR MUST CONTACT THE OWNER AT LEAST 10 WORKING DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S). THE CONTRACTOR MUST REPLACE ALL DEAD OR UNACCEPTABLE PLANTS DURING THE FOLLOWING RECOMMENDED PLANTING SEASON.

BIORETENTION FACILITY LANDSCAPE MAINTENANCE GUIDELINES

Bioretention landscaping initially requires intensive maintenance, including weeding, supplemental watering, re-planting, re-mulching, and monitoring of plant health and growth. Maintenance needs become lower over time.

General Maintenance Issues

Plant Coverage:  
At the end of the first year, herbaceous plants should cover at least 50% of the originally proposed planted area. If less than 50% is covered, the facility should be replanted to a density as proposed on the Stormwater Management Landscape Plan. After 3 full years, the entire area should be covered with healthy growth at a density at least as great as proposed on the Stormwater Management Landscape Plan.

Fertilizer:  
Do not apply fertilizer unless soil tests indicate a deficiency.

Pesticide:  
Do not apply on a scheduled basis. Apply ONLY after non-chemical methods (biological, physical, cultural) have been attempted and do not keep pests under control. Use the least toxic and least persistent pesticide that can provide adequate control. Apply only when the pesticide is least likely to enter runoff; do not apply if rain is expected.

Herbicide:  
Spot treat with an herbicide approved for aquatic use.

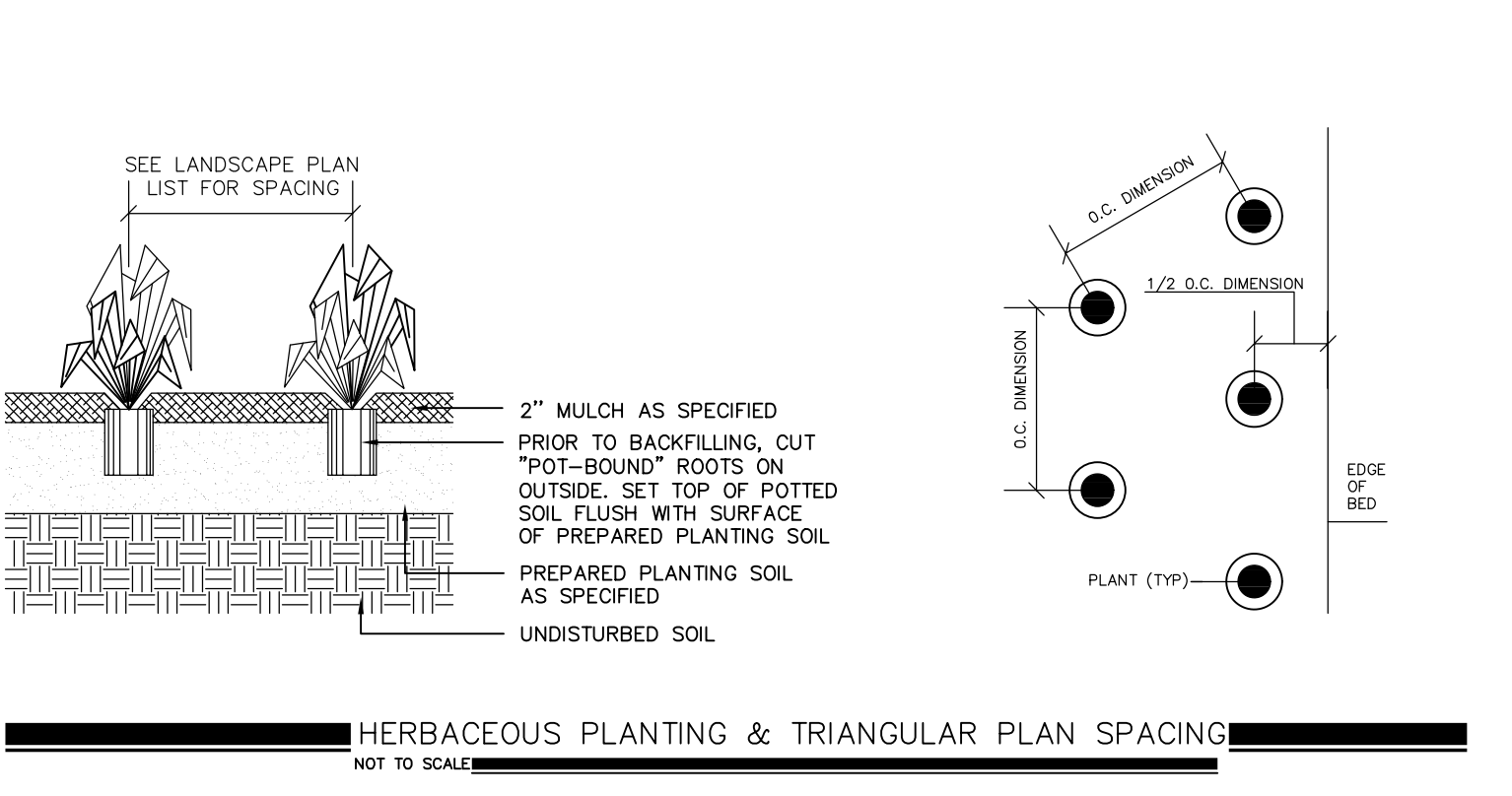
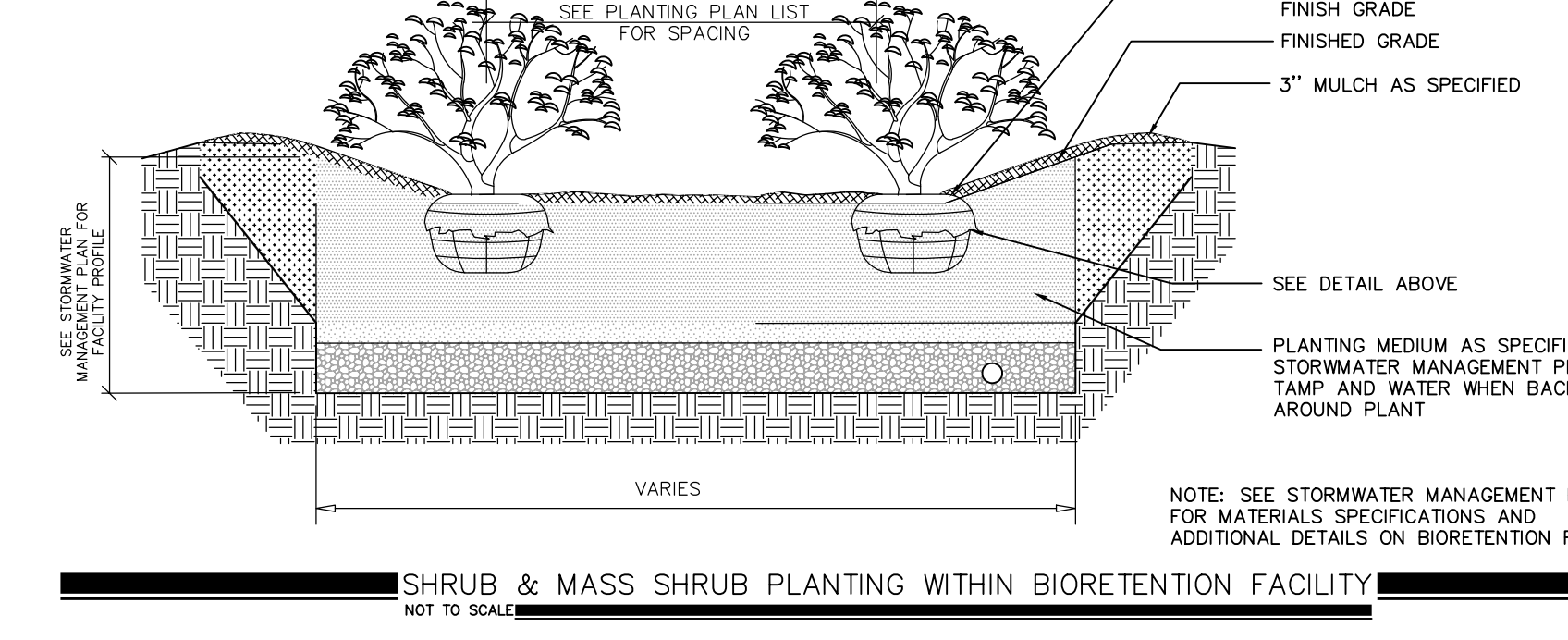
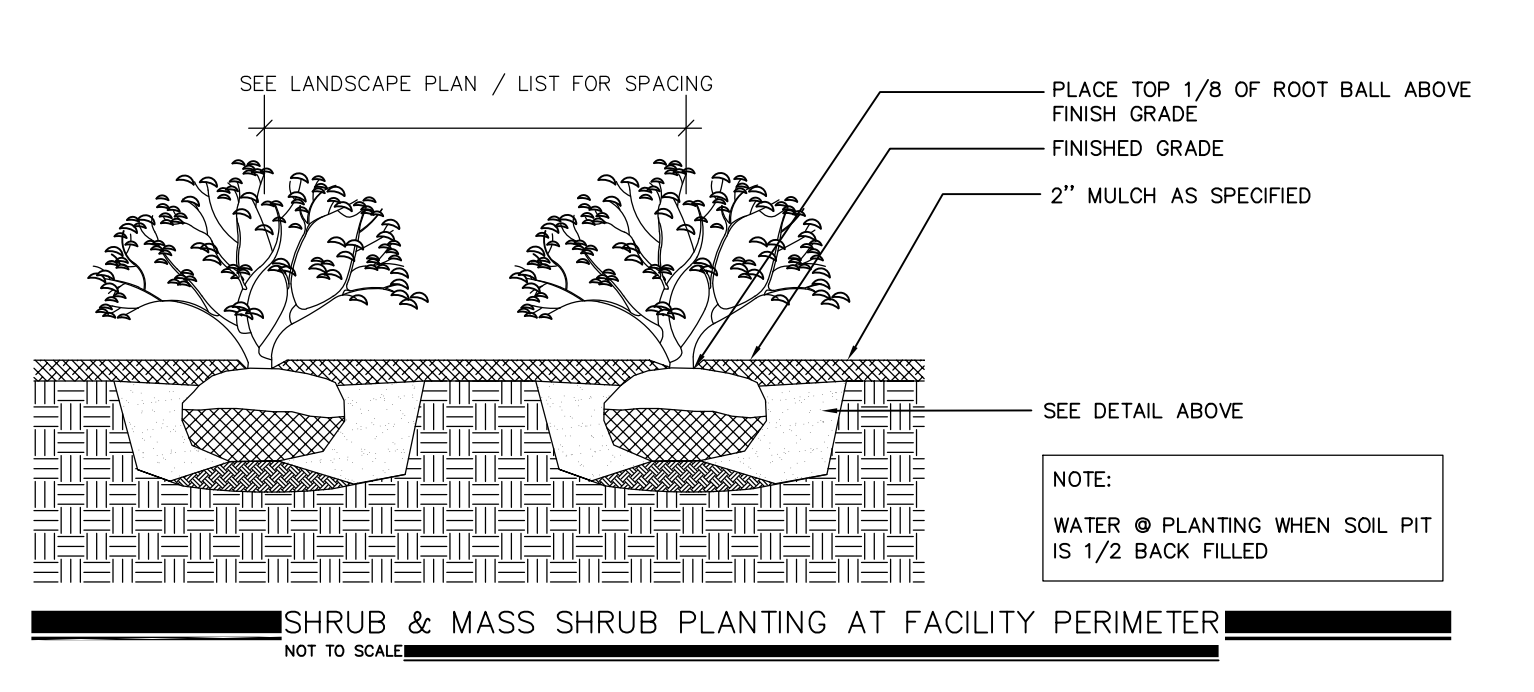
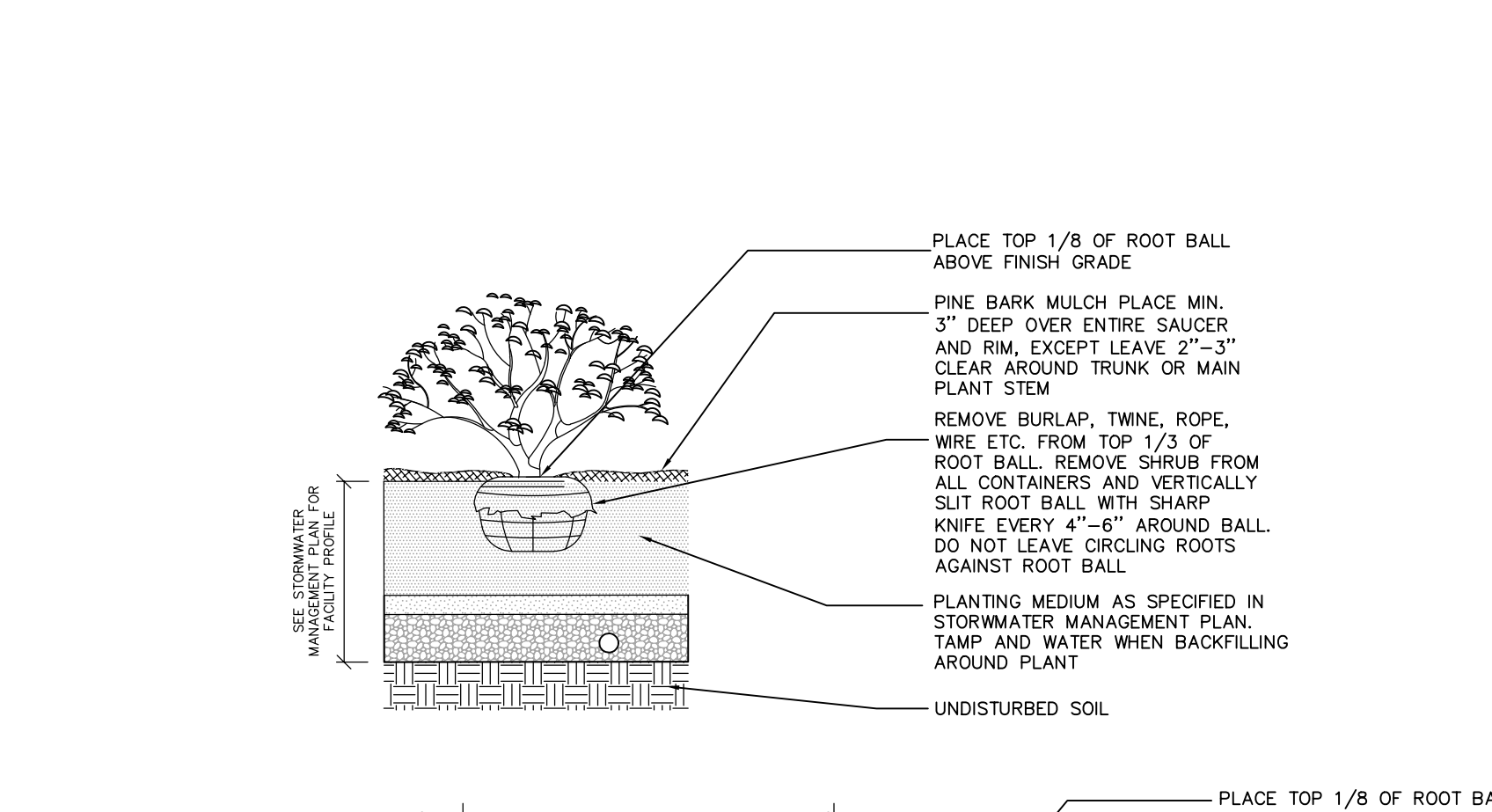
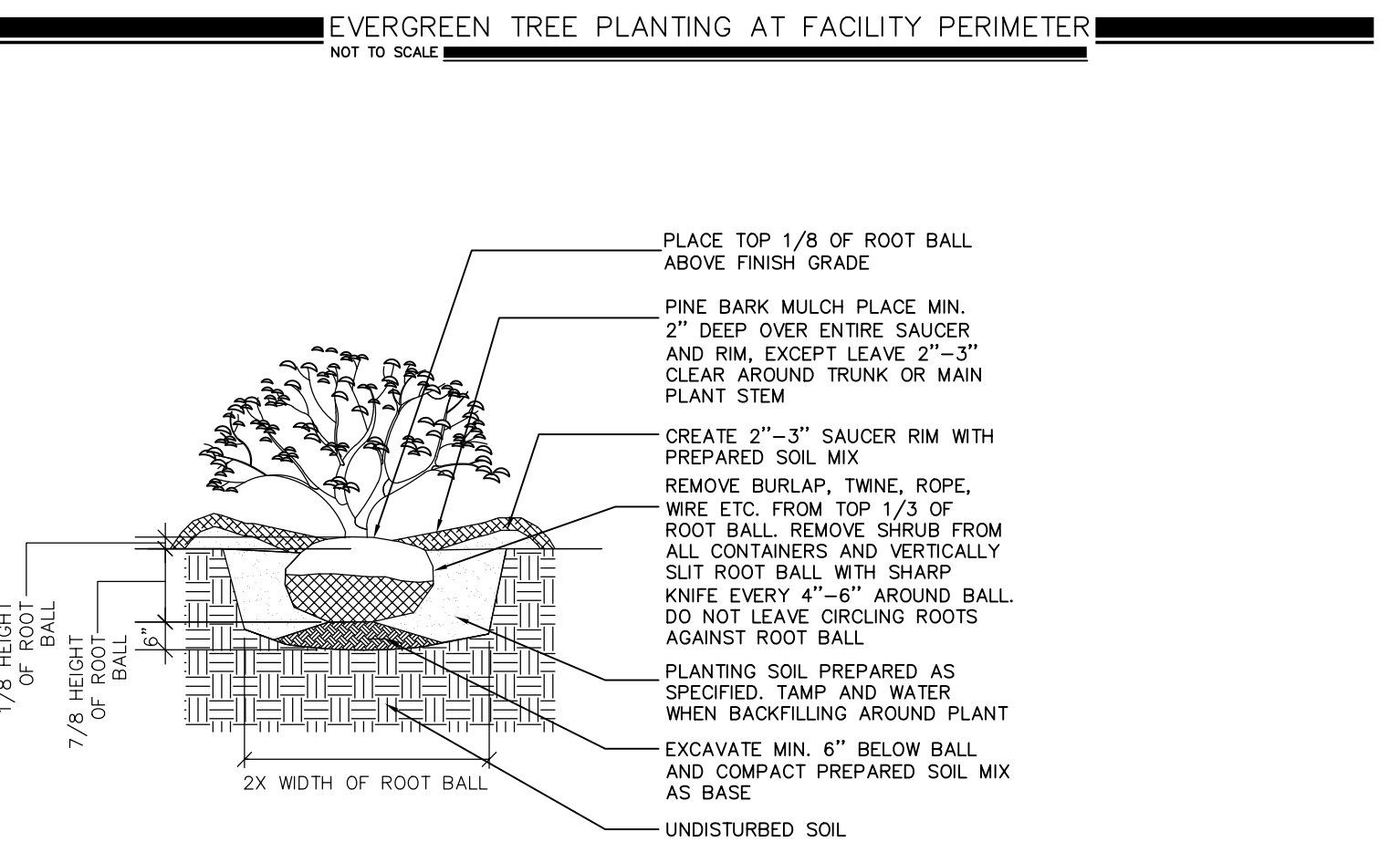
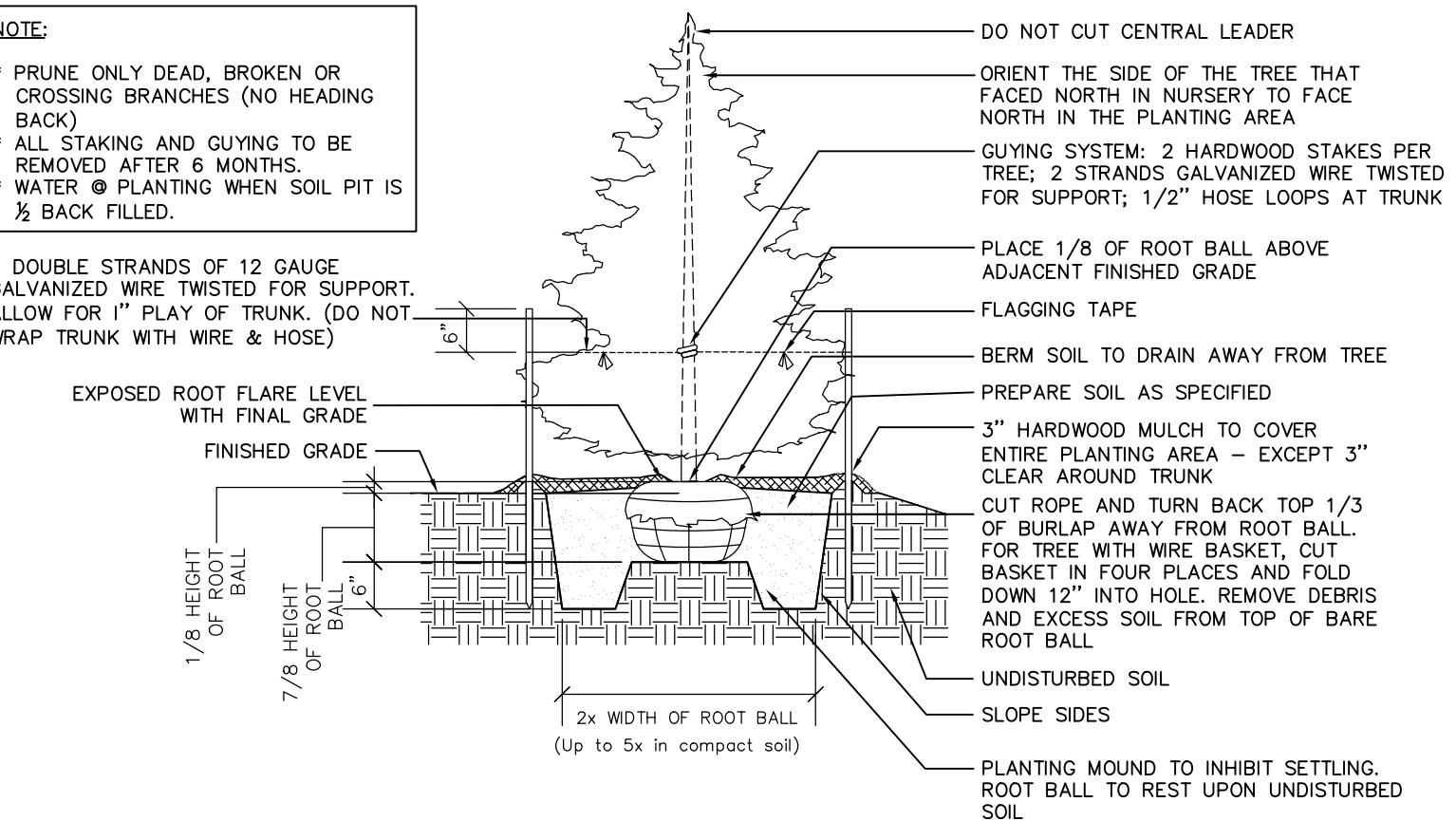
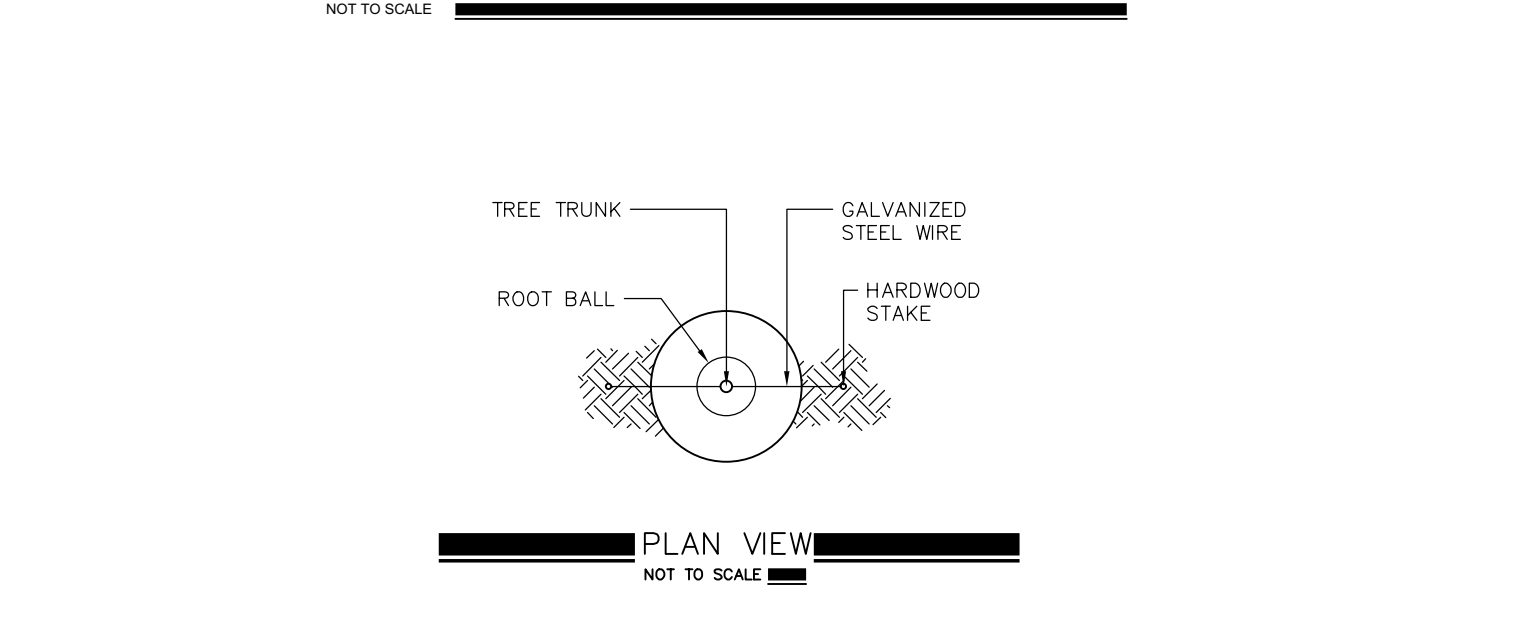
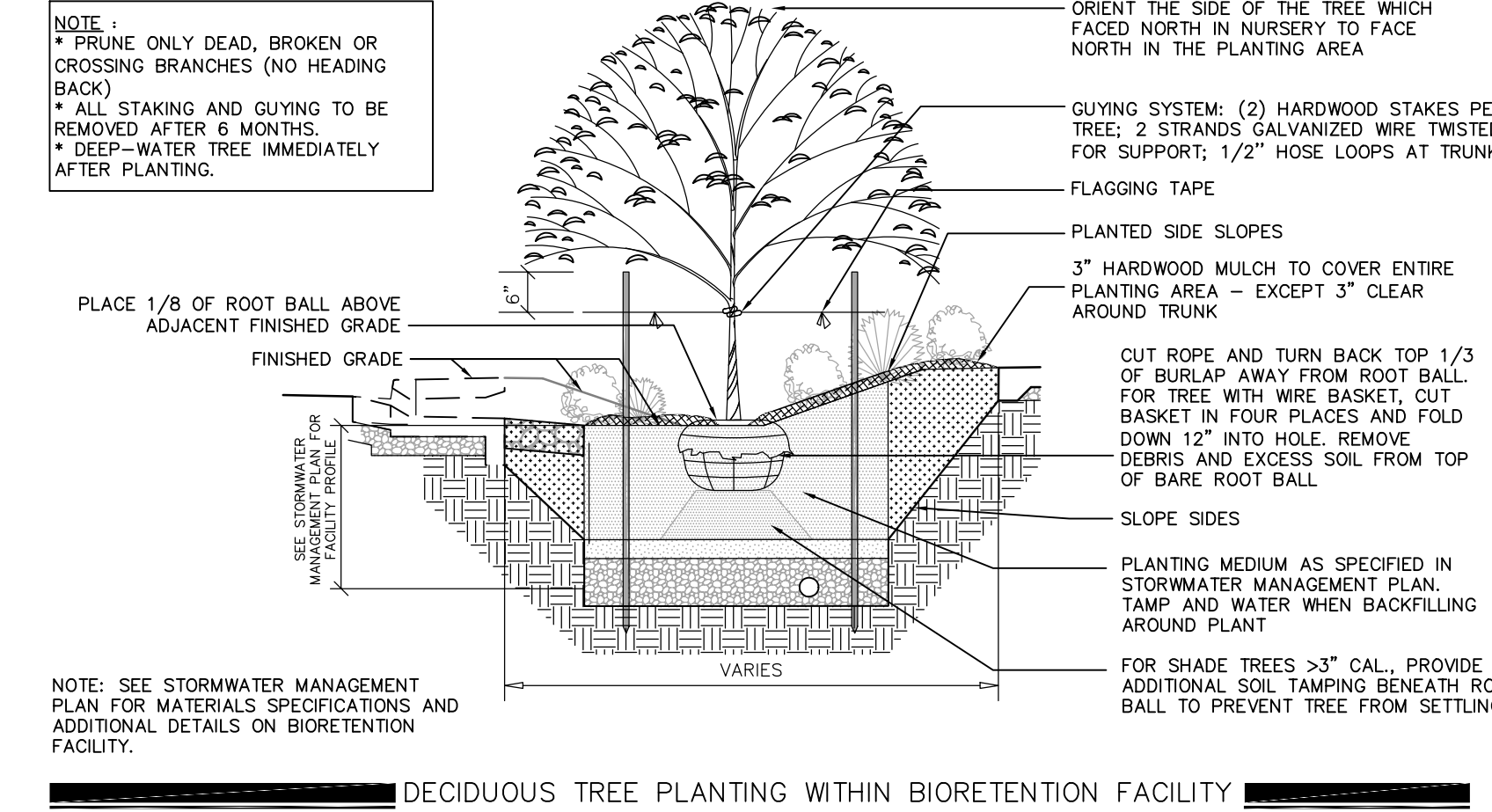
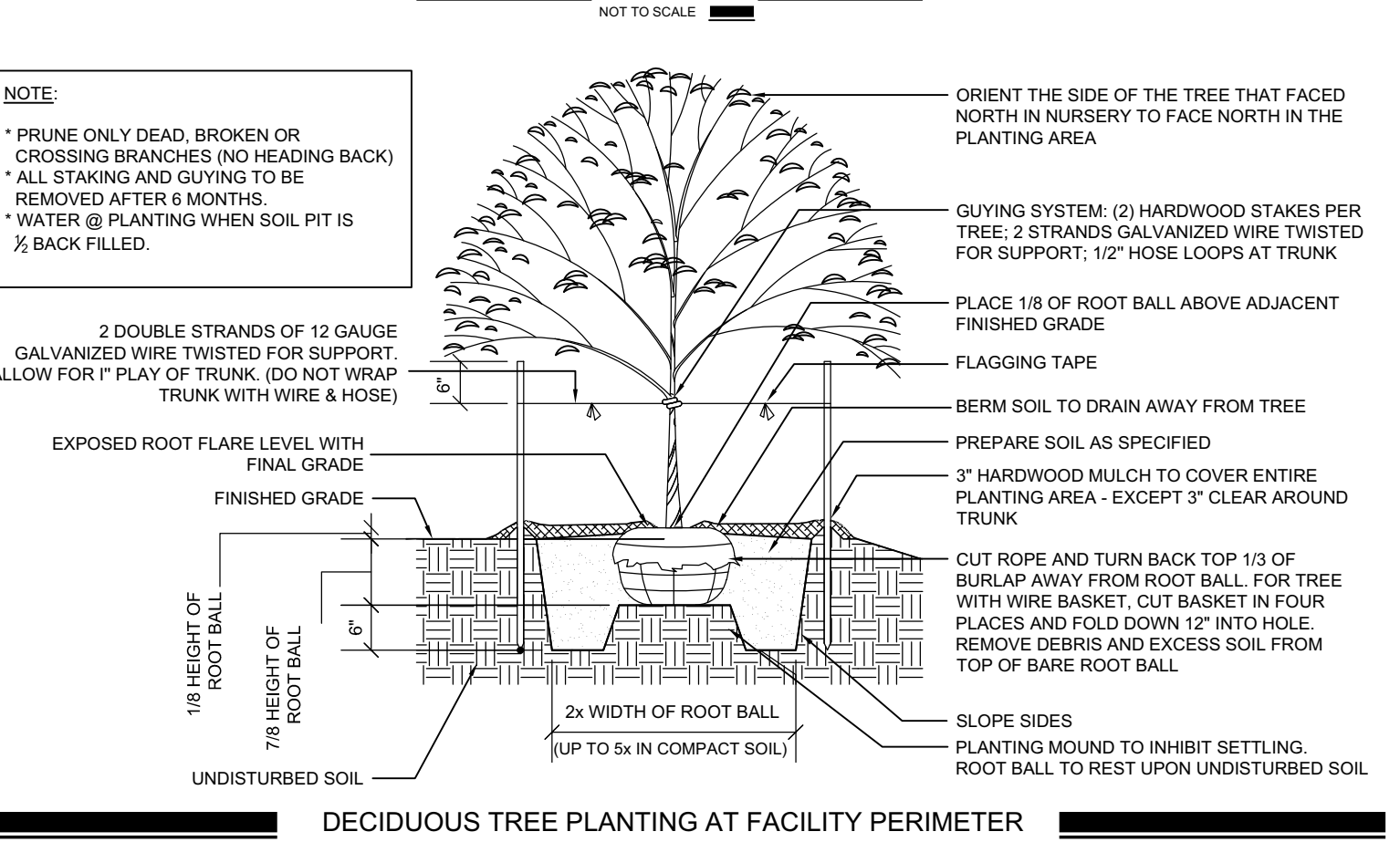
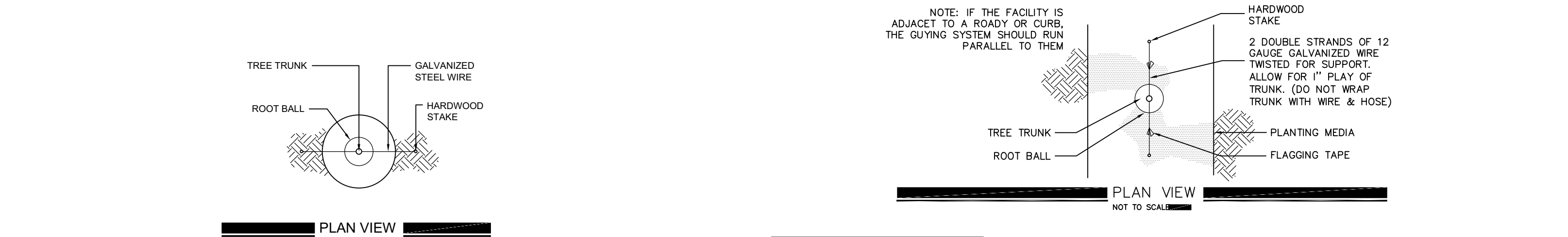
Mowing:  
Do not mow within the facility except where turf grasses are present. When mowing turf grasses, clippings should remain on the turf. Do not allow clippings to fall in the facility where plants other than turf grasses exist.

MATERIAL	TASK	FREQUENCY	NOTES
TREES AND SHRUBS	Watering (First 2 months after planting)	Deep watering once every 3 days	Adjust frequency to accommodate rainfall amounts and high summer temperatures.
	Watering (Remainder of first growing season and all of second growing season)	Deep watering once per week unless 1/2" rain is received or more frequently as needed during drought	
	Watering (After first 2 growing seasons)	As needed during drought	
	Pruning diseased or damaged growth	When it is found	DO NOT SHEAR PLANTS. Preferred pruning times and methods may vary by species. The Maryland Cooperative Extension, the Maryland Department of Natural Resources, and the USDA Forest Service, among other organizations, offer additional information.
	Pruning excess growth	Generally, from trees in late winter, and from shrubs soon after flowering is complete	
HERBACEOUS PLANTS	Remove diseased or dead plants	Once in Spring and once in Fall, minimum	Replace with new material.
	Watering (First 2 months after planting)	Deep watering once every 3 days	Adjust frequency to accommodate rainfall amounts and high summer temperatures.
	Watering (Remainder of first growing season and all of second growing season)	Deep watering once per week unless 1/2" rain is received or more frequently as needed during drought	
	Watering (After first 2 growing seasons)	As needed during drought	
Remove diseased or dead plants	Once in Spring and once in Fall, minimum	Replace with new material if total coverage of facility falls below 50%.	

TASK	FREQUENCY	NOTES
Plant Inspection	Once every 2 weeks in Spring and Summer, monthly in Fall	Visually inspect plants for disease or pest problems.
Remove Litter and Debris	Whenever found	Includes animal waste, fallen twigs and branches and past seasons' decaying herbaceous material.
Mulch Inspection and Maintenance	Monthly	Replace or re-spread mulch as needed to maintain appropriate depth per specifications. However, do not allow accumulated organic matter to exceed specified mulch depth.
Weeding (First 2 growing seasons)	Every 2 weeks from April through October	Hand-pull weeds or use hand-held tools such as hoes. Do not use herbicides or mechanical cultivators. Immediately remove all exotic/invasive species that appear. Remove woody plant seedlings that have self-propagated. If desired, native non-invasive herbaceous species may be left to provide additional diversity.
Weeding (After first 2 growing seasons)	Once a month from April through October, or as needed	
Spring Clean-Up	Annually February through March	Remove dead foliage from perennials and ornamental grasses. Remove fallen twigs, branches and leaf debris.

GENERAL MAINTENANCE SCHEDULE

TASK	FREQUENCY	NOTES
Plant Inspection	Once every 2 weeks in Spring and Summer, monthly in Fall	Visually inspect plants for disease or pest problems.
Remove Litter and Debris	Whenever found	Includes animal waste, fallen twigs and branches and past seasons' decaying herbaceous material.
Mulch Inspection and Maintenance	Monthly	Replace or re-spread mulch as needed to maintain appropriate depth per specifications. However, do not allow accumulated organic matter to exceed specified mulch depth.
Weeding (First 2 growing seasons)	Every 2 weeks from April through October	Hand-pull weeds or use hand-held tools such as hoes. Do not use herbicides or mechanical cultivators. Immediately remove all exotic/invasive species that appear. Remove woody plant seedlings that have self-propagated. If desired, native non-invasive herbaceous species may be left to provide additional diversity.
Weeding (After first 2 growing seasons)	Once a month from April through October, or as needed	
Spring Clean-Up	Annually February through March	Remove dead foliage from perennials and ornamental grasses. Remove fallen twigs, branches and leaf debris.







**PARKING LOT REQUIREMENTS FOR 10 OR MORE SPACES**  
 2014 MONTGOMERY COUNTY ZONING ORDINANCE

Section 6.2.9.C.1. Landscaped Area

Minimum Landscaped Island Area Required	= 100 s.f.
Minimum Landscaped Island Area Provided	= 115 s.f.
Parking Lot Pavement Area	= 13,033 s.f.
Landscaped Area required (5% of Total Pavement Area)	= 652 s.f.
Total Landscape Area provided	= 756 s.f. or 5.8%

SCREENING REQUIREMENTS 2014 MONTGOMERY COUNTY ZONING ORDINANCE SECTION 6.5.2.C		
	REQUIRED/ PERMITTED	PROVIDED
<b>7. General Building with a Non-Industrial Use</b>	<b>SCREENING A (202.0' SEGMENT) - OPTION B</b>	
Minimum Landscape Dimensions (depth)	12'	122'
Canopy Trees	2 per 100' = 5 trees	5 trees
Understory or Evergreen Trees	4 per 100' = 9 trees	9 trees
Large Shrubs	8 per 100' = 17 shrubs	17 shrubs
Medium Shrubs	12 per 100' = 25 shrubs	25 shrubs
Small Shrubs	N/A	N/A

**SHADING FOR PARKING LOT PAVEMENT**  
 Section 6.2.9.C.2. Tree Canopy

PARKING LOT SHADE TREE LIST		
BOTANICAL NAME	COMMON NAME	20 YEAR CANOPY (DIA. IN FEET)*
Celtis occidentalis	Common Hackberry	45
Fagus grandifolia	American Beech	46
Quercus alba	White Oak	26
Quercus rubra	Red Oak	35

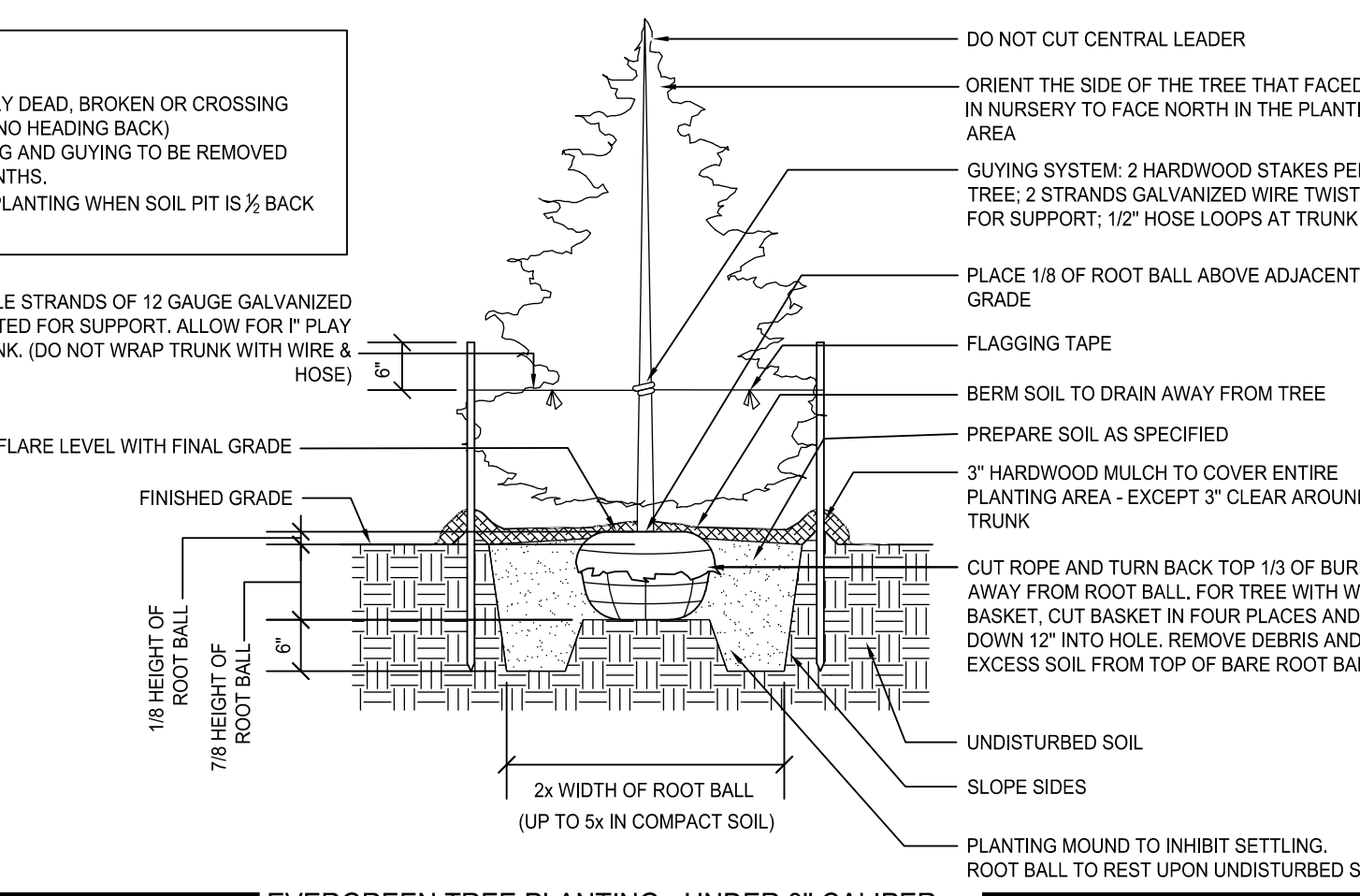
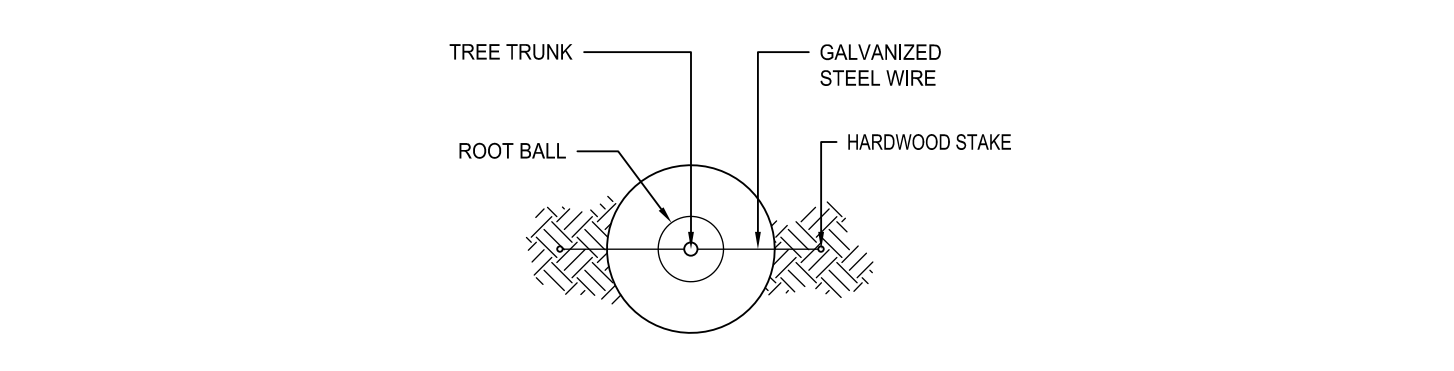
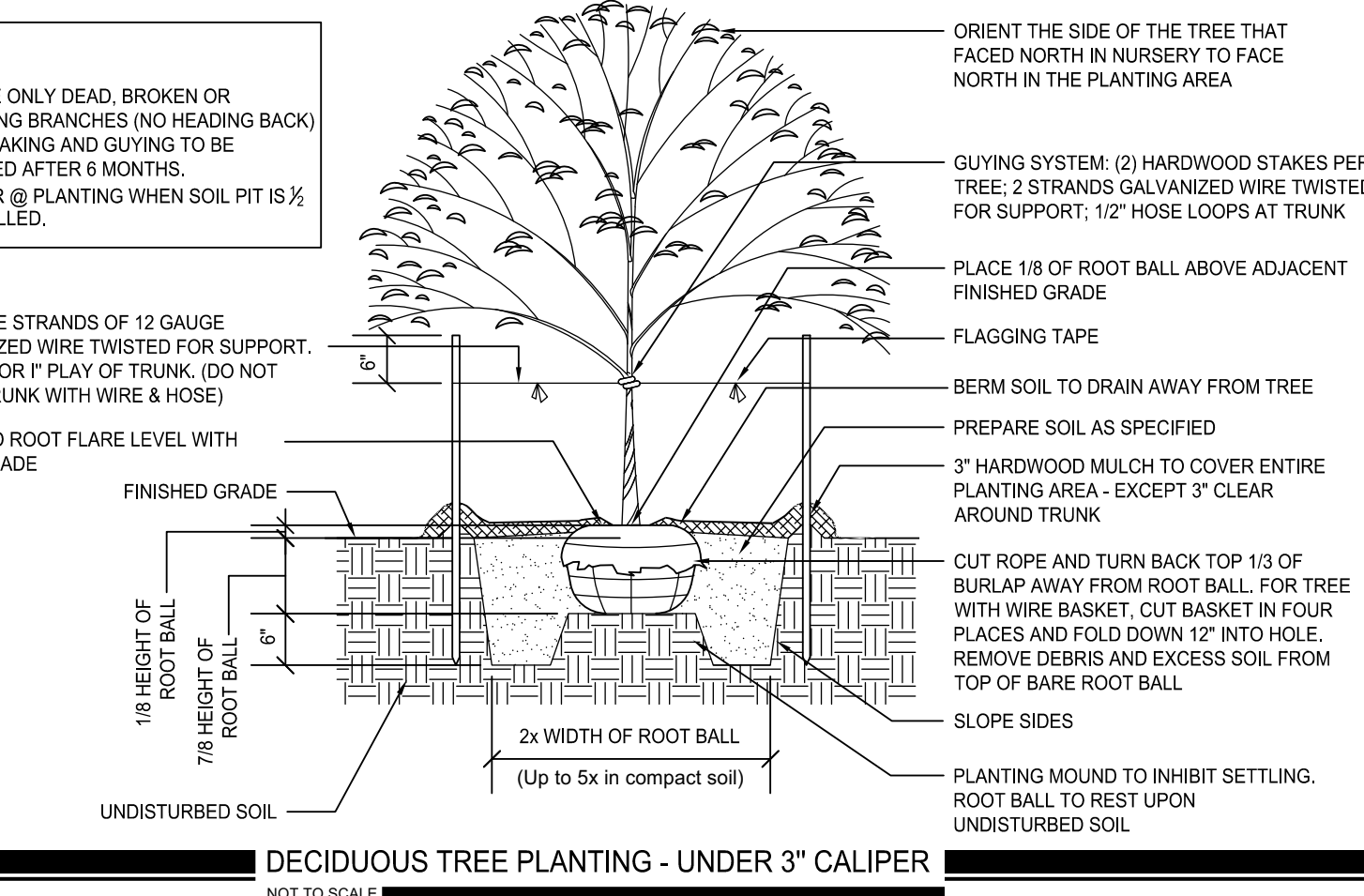
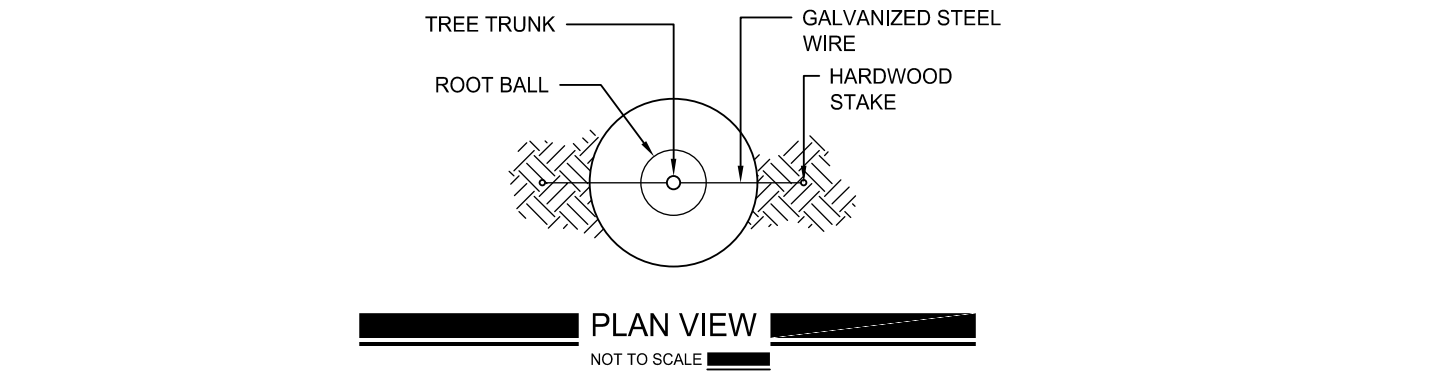
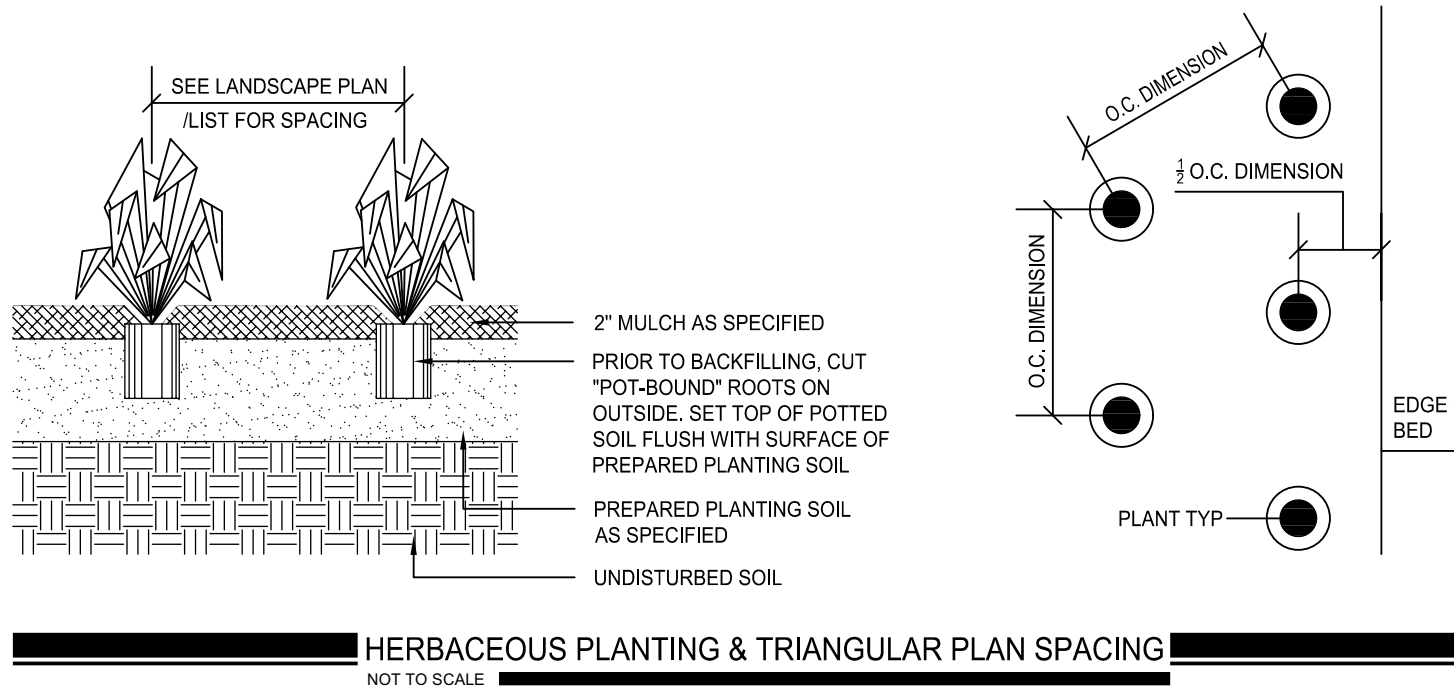
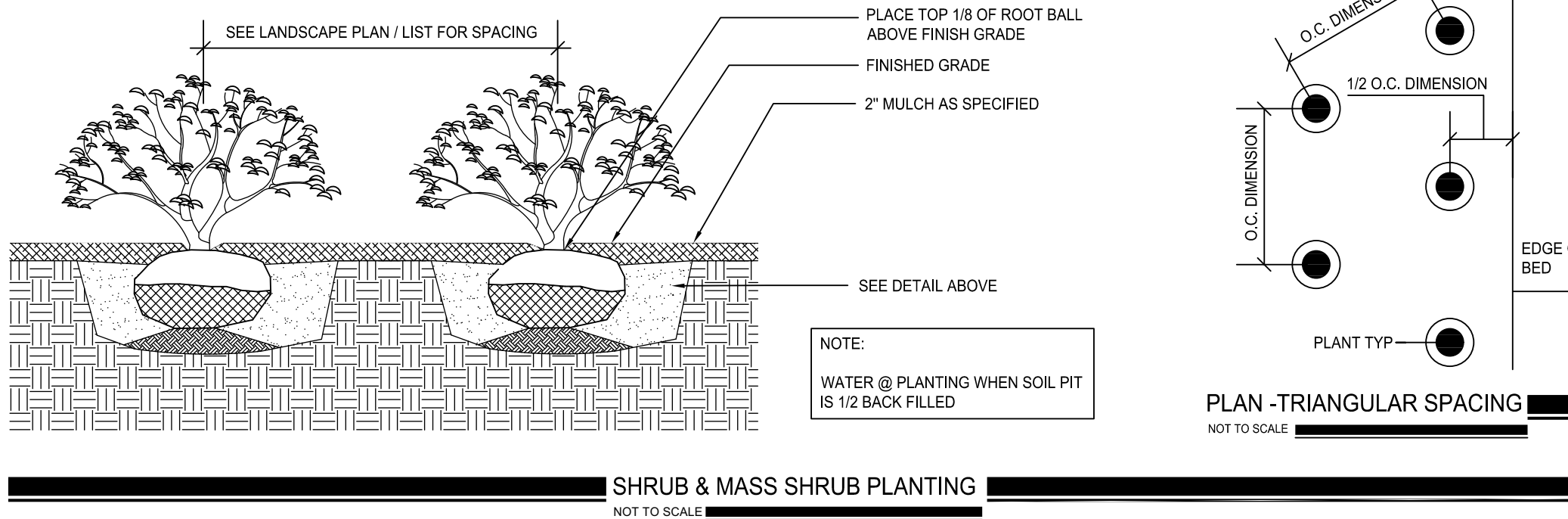
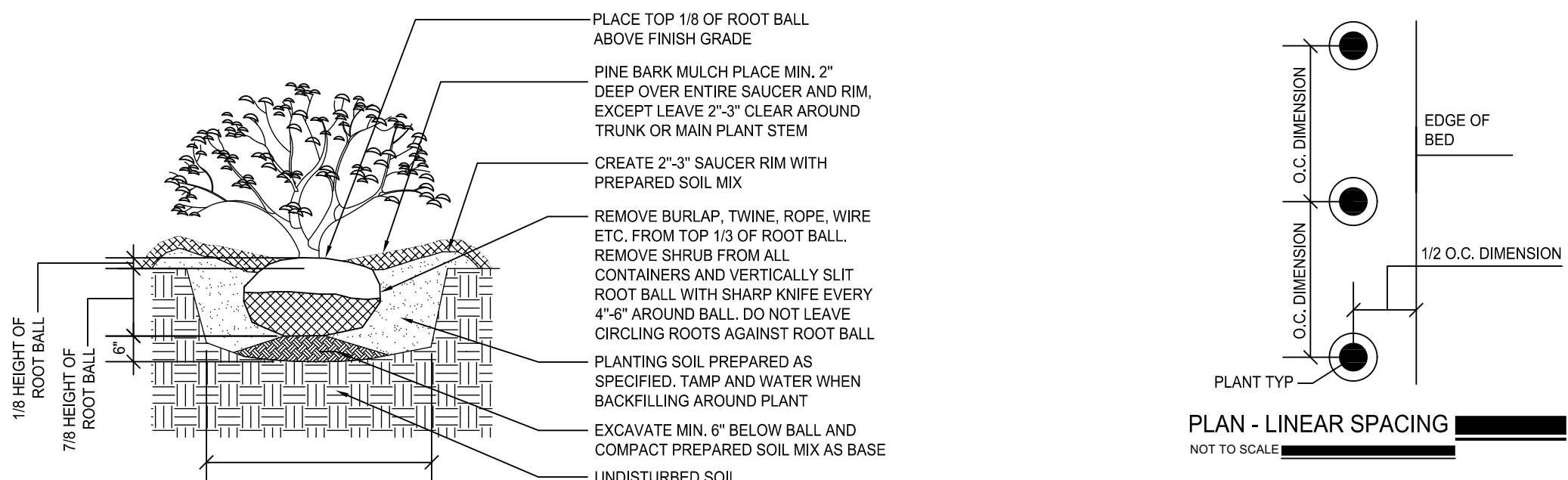
\*20-year canopy diameters are calculated as shown in the Montgomery County Trees Technical Manual (September 1992), Appendix C, "Plant Species Information: Montgomery County Maryland Landscape Tree Evaluation Criteria".

Parking Lot Pavement Area	= 12,990 s.f.
Shaded Area required (25% of Total Pavement Area)	= 3,248 s.f.
Total Shaded Area provided	= 4,495 s.f. or 34%

PARKING LOT PERIMETER LANDSCAPING REQUIREMENTS SECTION 6.2.9.C.3.		
	REQUIRED/ PERMITTED	PROVIDED
<b>1. Perimeter planting area for a property that abuts any other zone (C.R.T.)</b>	<b>PERIMETER SCREEN A - 40 L.F.</b>	
i. Minimum width	6'	25'
ii. Minimum hedge height	3'	3'
iii. Canopy trees	30' o.c. 40 linear feet = 2 trees	2 trees
<b>2. Perimeter planting area for a property that abuts any other zone (C.R.T.)</b>	<b>PERIMETER SCREEN B - 137 L.F.</b>	
i. Minimum width	6'	54'
ii. Minimum hedge height	3'	3'
iii. Canopy trees	30' o.c. 163 linear feet = 5 trees	5 trees
<b>3. Perimeter planting area for a property that abuts any other zone (C.R.T.)</b>	<b>PERIMETER SCREEN C - 58 L.F.</b>	
i. Minimum width	6'	56'
ii. Minimum hedge height	3'	3'
iii. Canopy trees	30' o.c. 58 linear feet = 2 trees	2 trees
<b>4. Perimeter planting area for a property that abuts any other zone (C.R.T.)</b>	<b>PERIMETER SCREEN D - 137 L.F.</b>	
i. Minimum width	6'	8'
ii. Minimum hedge height	3'	3'
iii. Canopy trees	30' o.c. 163 linear feet = 5 trees	5 trees

VARIANCE MITIGATION TREE LIST							
KEY	QTY	BOTANICAL NAME	COMMON NAME	CAL	HGT	ROOT	SPACING
<b>SHADE TREES</b>							
COC*	4	Celtis occidentalis	Common Hackberry	3" Cal.		B&B	AS SHOWN
FGR*	4	Fagus grandifolia	American Beech	3" Cal.		B&B	AS SHOWN
NSY*	3	Nyssa sylvatica	Tupelo	3" Cal.		B&B	AS SHOWN
QAL*	4	Quercus alba	White Oak	3" Cal.		B&B	AS SHOWN
QRU*	3	Quercus rubra	Red Oak	3" Cal.		B&B	AS SHOWN

Note: Plant counts are provided for the convenience of the contractor. The plan dominates on any discrepancies between the table and the plan. Contractor is responsible for verifying the counts and bringing any discrepancies to the attention of the landscape architect and client before proceeding.  
 \*Native



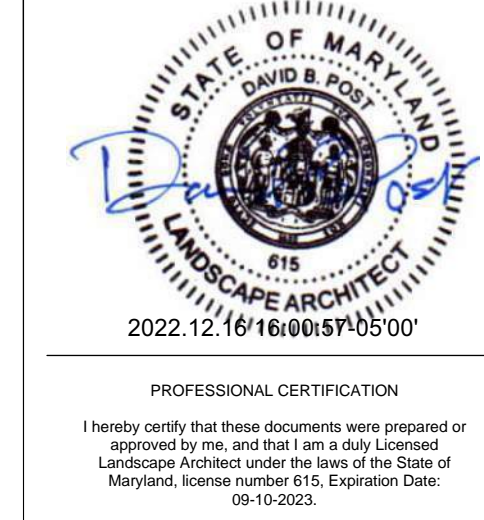
**PLANTING NOTES**

- THIS PLAN IS FOR PLANTING PURPOSES ONLY.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PLANT MAINTENANCE, INCLUDING SHRUBS AND GROUND COVER, AND SHALL MAINTAIN AREA IN A WEED AND DEBRIS FREE CONDITION, THROUGHOUT THE ONE YEAR GUARANTEE PERIOD.
- CONTRACTOR SHALL LAY OUT AND CLEARLY STAKE ALL PROPOSED IMPROVEMENTS INCLUDED ON THIS PLAN.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING CONSTRUCTION FOR LOCATION OF ALL UTILITY LINES. TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM SEWER/WATER CONNECTIONS. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY AND ALL PUBLIC OR PRIVATE UTILITIES.
- QUANTITIES AS SHOWN ON THE PLAN SHALL GOVERN OVER PLANT LIST QUANTITIES. CONTRACTOR TO VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN. LANDSCAPE ARCHITECT SHALL BE ALERTED BY CONTRACTOR OF ANY DISCREPANCIES PRIOR TO FINAL BID NEGOTIATION. UNIT PRICES FOR ALL MATERIAL SHALL BE SUPPLIED TO THE OWNER AT BIDDING TIME.
- ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT. OWNER SHALL RECEIVE TAG FROM EACH PLANT SPECIES AND A LIST OF PLANT SUPPLIERS, WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL MEET THE NORMAL REQUIREMENTS FOR THE VARIETY PER THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY AMERICAN NURSERY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR SOIL TESTING AND PREPARATION AS OUTLINED IN THE CURRENT EDITION OF THE LANDSCAPE SPECIFICATION GUIDELINES OF THE LANDSCAPE CONTRACTORS ASSOCIATION OF MD-DC-VA (LCA). PREPARATION SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE ADDITION OF SOIL AMENDMENTS, FERTILIZERS AND SUPPLEMENTAL TOPSOIL AS INDICATED BY TESTING, AND SUBGRADE, FINAL GRADE AND FINISH GRADE SOIL PREPARATION.
- WHERE TREES ARE PLANTED IN ROWS, THEY SHALL BE UNIFORM IN SIZE AND SHAPE.
- SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF THAT PLANT.
- ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED, FREE OF DISEASE, INSECT EGGS, AND LARVAE, AND SHALL HAVE ADEQUATE ROOT SYSTEMS.
- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- GROUPS OF SHRUBS SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES. ALL MULCHED BED EDGES SHALL BE CURVILINEAR IN SHAPE FOLLOWING THE CONTOUR OF THE PLANT MASS UNLESS OTHERWISE NOTED. TREES LOCATED WITHIN FOUR FEET OF SHRUB BEDS SHALL SHARE SAME MULCH BED.
- NO EXISTING TREES SHALL BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER EXCEPT WHERE NOTED ON PLANS. NO GRUBBING SHALL OCCUR WITHIN EXISTING TREE AREAS.
- TREES SHALL BE LOCATED A MINIMUM OF 3 FEET FROM WALLS AND WALKS WITHIN THE PROJECT. IF CONFLICTS ARISE BETWEEN ACTUAL SIZE OF AREA AND PLANS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE OWNER OR LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE MATERIALS.
- LARGE GROWING PLANTS ARE NOT TO BE PLANTED IN FRONT OF WINDOWS, UNDER BUILDING OVERHANGS, OR IN DRAINAGE SWALES. SHRUBS PLANTED NEAR HVAC UNITS TO BE LOCATED SO THAT SHRUBS AT MATURITY WILL MAINTAIN 1-FOOT AIRSPACE BETWEEN UNIT AND PLANT.
- CONTRACTOR TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. FINISHED PLANTING BEDS SHALL BE GRADED SO AS NOT TO IMPED DRAINAGE AWAY FROM BUILDINGS.
- TREE STAKING AND GUYING SHALL BE DONE PER DETAILS. CONTRACTOR SHALL ENSURE THAT TREES REMAIN VERTICAL AND UPRIGHT FOR THE DURATION OF THE GUARANTEE PERIOD.
- ALL TREE PITS, SHRUB BEDS AND PREPARED PLANTING BEDS ARE TO BE COMPLETELY EXCAVATED IN ACCORDANCE WITH THE PLANTING DETAILS.
- MULCH IS TO BE DOUBLE SHREDDED HARDWOOD BARK FOR TREES AND SHRUBS.
- CROWN OF ROOT FLARE SHALL BE 1/2" - 3" HIGHER (AFTER SETTLING) THAN ADJACENT SOIL.
- TAGS AND TWINE ARE TO BE REMOVED AND BURLAP IS TO BE ROLLED BACK ONE-HALF ON ALL B&B PLANT MATERIAL.
- SHRUBS SHALL BE TRIANGULARLY SPACED AT SPACING SHOWN ON PLANTING PLANS WHERE MASSING IS INDICATED.
- SHADE TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT FLARE TO THE TOP OF MATURE GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "Y" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.
- SHRUBS: HEIGHT SHALL BE MEASURED FROM THE GROUND TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE SHRUB MASS. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH.
- ALL SUBSTITUTIONS OF PLANT MATERIAL ARE TO BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER AND M-NCPPC. FAILURE TO OBTAIN SUBSTITUTION APPROVAL IN WRITING MAY RESULT IN LIABILITY TO THE CONTRACTOR.
- ALL CONTRACTORS SHALL BE REQUIRED TO COMPLETELY REMOVE ALL TRASH, DEBRIS AND EXCESS MATERIALS FROM THE WORK AREA AND THE PROPERTY (ESPECIALLY AT ALL CURB, GUTTERS AND SIDEWALKS) DAILY DURING INSTALLATION.
- DEAD PLANTS ARE TO BE REMOVED FROM THE JOB BY THE CONTRACTOR ON A MONTHLY BASIS. CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
- CONTRACTOR SHALL BE RESPONSIBLE TO REGRADE, HYDRO-SEED, STRAW MULCH, AND TACK ALL LAWN AREAS DISTURBED AS THE RESULT OF HIS WORK.
- CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE IMPROVEMENTS, INCLUDING SEEDING, FOR ONE FULL YEAR AS REQUIRED BY THE SPECIFICATIONS. CONTRACTOR MUST CONTACT THE OWNER AT LEAST 10 WORKING DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTIONS. CONTRACTOR MUST REPLACE ALL DEAD OR UNACCEPTABLE PLANTS DURING THE FOLLOWING RECOMMENDED PLANTING SEASON.
- THE SPECIFICATIONS FOR ALL WORK INCLUDED IN THIS CONTRACT SHALL BE FROM THE LANDSCAPE SPECIFICATION GUIDELINES BY THE LANDSCAPE CONTRACTORS ASSOCIATION MD-DC-VA (LCA), CURRENT EDITION, UNLESS OTHERWISE NOTED ON THESE PLANS.
- ANY PLANTING WHICH IS SHOWN ADJACENT TO CONDENSER UNITS SHALL BE PLANTED AS REQUIRED TO SCREEN THE UNITS. SHOULD THE CONDENSER UNITS BE INSTALLED IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE PLAN IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL THE MATERIALS AROUND THE CONDENSERS AND TO ADJUST OTHER ADJACENT PLANTING ACCORDINGLY.
- FOR INFORMATION REGARDING APPROPRIATE PLANTING PERIODS FOR DIFFERENT SPECIES, SEE THE LATEST EDITION OF THE LANDSCAPE SPECIFICATION GUIDELINES FROM THE LANDSCAPE CONTRACTORS ASSOCIATION OF MD-DC-VA PART 1-EXTERIOR LANDSCAPE INSTALLATION, SECTION 1.12 (A-G) AT WWW.LCAMDCCVA.ORG.

LANDSCAPE PLANT LIST							
KEY	QTY	BOTANICAL NAME	COMMON NAME	CAL	HGT	ROOT	SPACING
<b>SHADE TREES</b>							
COC*	6	Celtis occidentalis	Common Hackberry	2- 2 1/2" Cal.		B&B	AS SHOWN
FGR*	7	Fagus grandifolia	American Beech	2- 2 1/2" Cal.		B&B	AS SHOWN
QAL*	4	Quercus alba	White Oak	2- 2 1/2" Cal.		B&B	AS SHOWN
QRU*	2	Quercus rubra	Red Oak	2- 2 1/2" Cal.		B&B	AS SHOWN
UPB	19	Ulmus parvifolia 'Bosque'	Bosque Lacebark Chinese Elm	2- 2 1/2" Cal.		B&B	50' o.c.
<b>ORNAMENTAL &amp; EVERGREEN TREES</b>							
ACS*	2	Amelanchier canadensis 'Sprizam'	Spring Glory Serviceberry		6-7' ht.	B&B	AS SHOWN
CCF*	4	Cercis canadensis 'Forest Pansy'	Forest Pansy Eastern Redbud		6-7' ht.	B&B	AS SHOWN
IOP*	3	Ilex opaca	American Holly		7-8' ht.	B&B	AS SHOWN
PGD*	4	Picea glauca 'Densata'	Black Hills Spruce		8-10' ht.	B&B	AS SHOWN
SYV	1	Syringia vulgaris	Common Purple Lilac		6-7'	B&B	AS SHOWN
<b>DECIDUOUS &amp; EVERGREEN SHRUBS</b>							
CLC*	29	Clethra alnifolia 'Caleb'	Vanilla Spice Summersweet		24-30"	#3 Cont.	3' o.c.
CSA*	24	Cornus stolonifera 'Arctic Fire'	Arctic Fire Red-Osier Dogwood		24-30"	#3 Cont.	42" o.c.
DPI	64	Distylium 'PIDIST-I'	Emerald Heights Evergreen Distylium		24-30"	#3 Cont.	3' o.c.
IGC*	35	Ilex glabra 'Compacta'	Compact Inkberry		24-30"	#3 Cont.	3' o.c.
HSH*	13	Hydrangea arborescens	Invincible Spirit Hydrangea		24-30"	#3 Cont.	4' o.c.
IVL*	35	Itea virginica 'Sprich'	Little Henry Virginia Sweetspire		24-30"	#3 Cont.	3' o.c.
JVG*	36	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper		24-30"	#3 Cont.	3' o.c.
MCD*	8	Morella cerifera 'Don's Dwarf'	Don's Dwarf Wax Myrtle		30-36"	#3 Cont.	4' o.c.
RRK	36	Rosa x 'Radorc'	Rainbow Knockout Rose		24-30"	#3 Cont.	3' o.c.
VJU	12	Viburnum x juddii	Judd Viburnum		30-36"	#3 Cont.	5' o.c.
<b>HERBACEOUS PERENNIALS AND GRASSES</b>							
ATG*	95	Asclepias tuberosa 'Gay Butterflies'	Gay Butterflies Butterfly Weed			#1 Cont.	18" o.c.
CVZ*	205	Corsopsis verticillata 'Zagreb'	Zagreb Whorled Tickseed			#1 Cont.	12" o.c.
HXP	340	Hemerocallis x 'Pretty in Pink'	Pretty in Pink Daylily			#1 Cont.	12" o.c.
IVE*	130	Iris versicolor	Blue Flag Iris			#1 Cont.	12" o.c.
LAH	160	Lavandula angustifolia 'Hidcotel'	Hidcotel Lavender			#1 Cont.	18" o.c.
SAN*	120	Sisyrinchium angustifolium	Blue-eyed Grass			#1 Cont.	12" o.c.
SHE*	137	Sporobolus heterolepis	Prairie Dropseed			#1 Cont.	24" o.c.

Note: Plant counts are provided for the convenience of the contractor. The plan dominates on any discrepancies between the table and the plan. Contractor is responsible for verifying the counts and bringing any discrepancies to the attention of the landscape architect and client before proceeding.  
 \*Native

**DEVELOPER'S CERTIFICATE**  
 THE UNDERSIGNED AGREES TO EXECUTE ALL THE FEATURES OF SITE PLAN APPROVAL NO. 802210090 INCLUDING APPROVAL, CONDITIONS, DEVELOPMENT PROGRAM, AND CERTIFIED SITE PLAN.  
 DEVELOPER: JAISAI PROPERTIES, LLC  
 CONTRACTOR: DR. PRAVEEN MULLAM  
 ADDRESS: 4700 BROADSTONE STREET, FREDERICK, MD 21704  
 PHONE: (240) 423-3815  
 EMAIL: PBOULARUM@GMAIL.COM  
 CONTRACT PERSON:  
 SIGNATURE: [Signature]



JAISAI PROPERTIES, LLC  
 4007 BROADSTONE STREET  
 FREDERICK, MD 21704  
 PH: (240) 423-3815  
 EMAIL: PBOULARUM@GMAIL.COM

REVISIONS		
NO.	DESCRIPTION	DATE

TAX MAP E9W11 W58C 232N13

27TH ELECTION DISTRICT  
 MONTGOMERY COUNTY  
 MARYLAND

**PARCELS 311 & N366  
 HAMMER HILL**

PROJ. MGR	DCM
DRAWN BY	CEB
SCALE	NTS
DATE	1.12.2021

**HAMMER HILL DAYCARE  
 LANDSCAPE PLANTING  
 NOTES & DETAILS**

**MONTGOMERY PLANNING DEPARTMENT**  
 THE MARYLAND NATIONAL CAPITAL PARK AND PLANNING COMMISSION  
 Certified Site Plan - 820210090  
**APPROVAL**  
  
 06/02/23

**FOREST CONSERVATION WORKSHEET**  
 HAMMER HILL

**NET TRACT AREA:**

A. Total tract area	3.52
B. Additions to tract area (Off-Site Work, etc.; construction required by this plan)	0.00
C. Land dedication acres (parks, county facility, etc.)	0.00
D. Land dedication for roads or utilities (construction not required by this plan)	0.00
E. Area to remain in commercial agricultural production/use	0.00
F. Other deductions (specify)	0.00
G. Net Tract Area	4.02

**LAND USE CATEGORY:** (from Chapter 22A-3. Definitions)  
 Input the number "1" under the appropriate land use, limit to only one entry.

ARA	MDR	IDA	HOR	MPD	CIA
0	0	0	0	1	0

G. Afforestation Threshold ... 15% x G = 0.60  
 H. Conservation Threshold ... 20% x G = 0.80

**EXISTING FOREST COVER:**

I. Existing forest cover	0.00
J. Area of forest above afforestation threshold	0.00
K. Area of forest above conservation threshold	0.00

**BREAK EVEN POINT:**

L. Forest retention above threshold with no mitigation	0.00
M. Clearing permitted without mitigation	0.00

**PROPOSED FOREST CLEARING:**

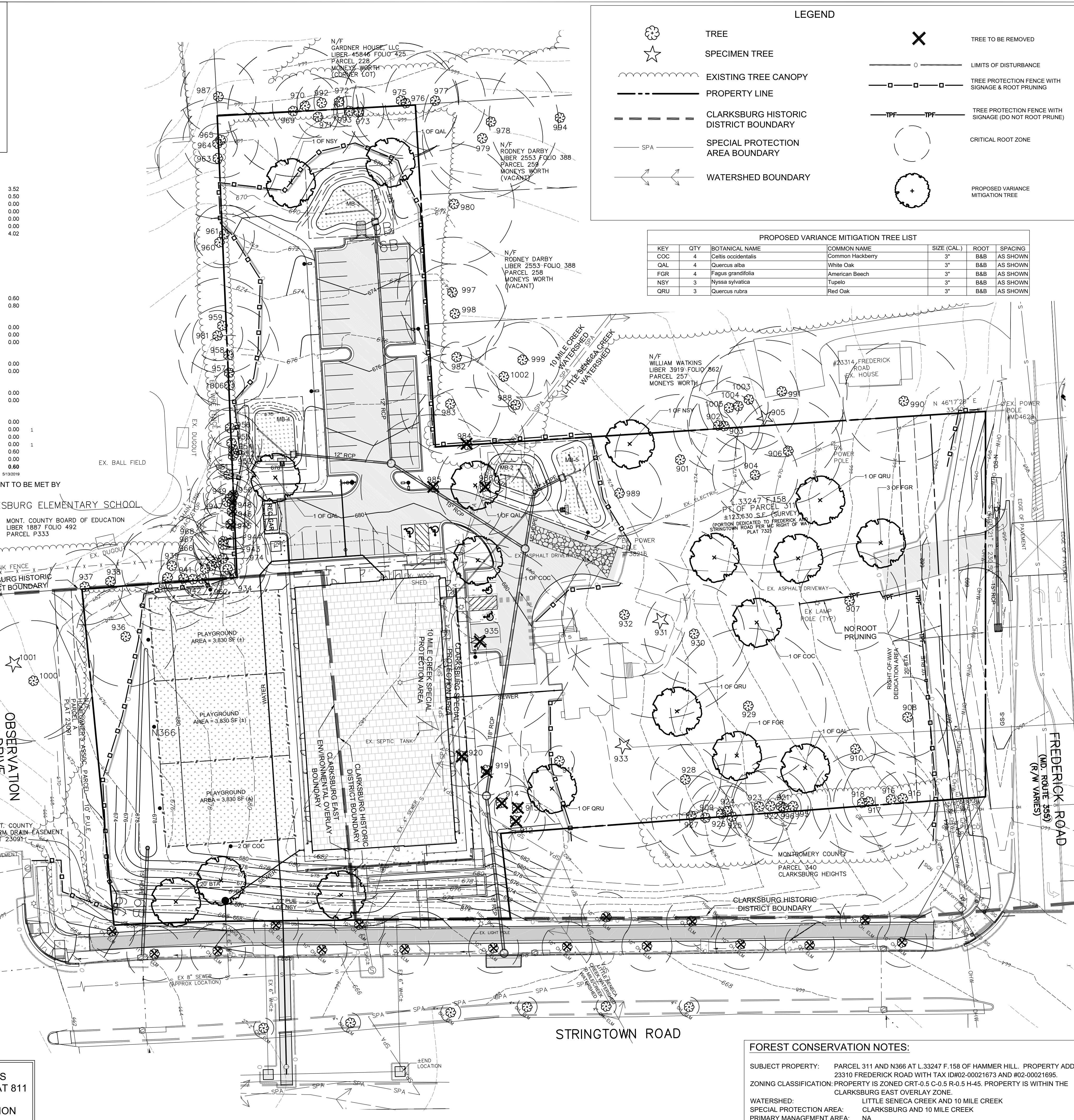
N. Total area of forest to be cleared	0.00
O. Total area of forest to be retained	0.00

**PLANTING REQUIREMENTS:**

P. Reforestation for clearing above conservation threshold	0.00
Q. Reforestation for clearing above conservation threshold	0.00
R. Credit for retention above conservation threshold	0.00
S. Total reforestation required	0.00
T. Total reforestation required	0.00
U. Credit for landscaping (may not exceed 20% of "S")	0.00
V. Total reforestation and reforestation required	0.00

worksheet date: 5/15/2019

THE 0.60 ACRES FOREST CONSERVATION REQUIREMENT TO BE MET BY FEE IN LIEU OR IN A FOREST BANK IF AVAILABLE.

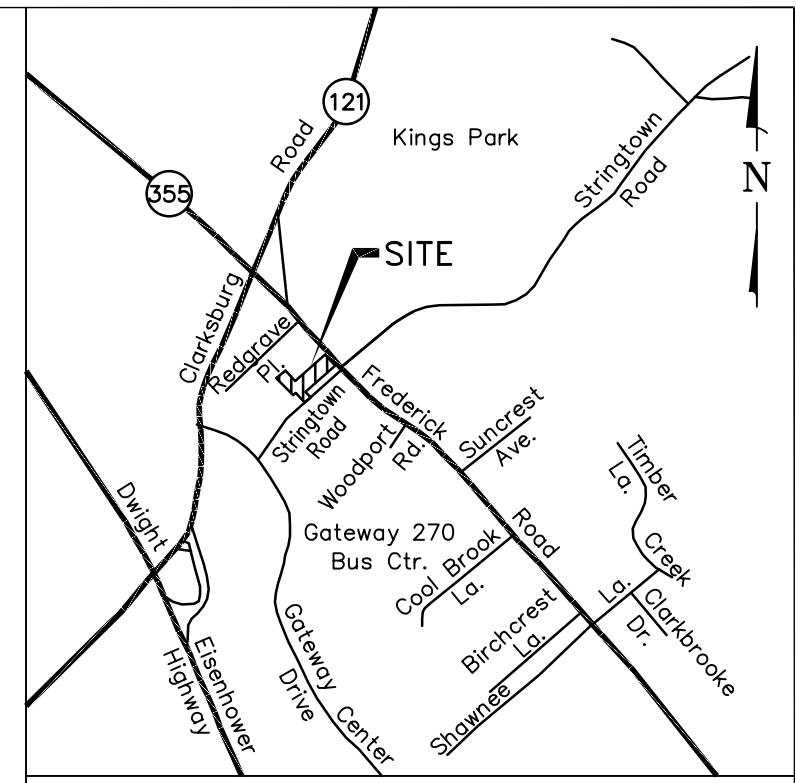


**LEGEND**

- TREE (Symbol: Tree)
- SPECIMEN TREE (Symbol: Star)
- EXISTING TREE CANOPY (Symbol: Dotted line)
- PROPERTY LINE (Symbol: Dashed line)
- CLARKSBURG HISTORIC DISTRICT BOUNDARY (Symbol: Long-dashed line)
- SPECIAL PROTECTION AREA BOUNDARY (Symbol: Solid line)
- WATERSHED BOUNDARY (Symbol: Arrow)
- TREE TO BE REMOVED (Symbol: X)
- LIMITS OF DISTURBANCE (Symbol: Circle with X)
- TREE PROTECTION FENCE WITH SIGNAGE & ROOT PRUNING (Symbol: Square with X)
- TREE PROTECTION FENCE WITH SIGNAGE (DO NOT ROOT PRUNE) (Symbol: TPF)
- CRITICAL ROOT ZONE (Symbol: Circle with +)
- PROPOSED VARIANCE MITIGATION TREE (Symbol: Circle with +)

**PROPOSED VARIANCE MITIGATION TREE LIST**

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE (CAL.)	ROOT	SPACING
COC	4	Quercus occidentalis	White Oak	3"	B&B	AS SHOWN
QAL	4	Quercus alba	American Beech	3"	B&B	AS SHOWN
FGR	4	Fagus grandifolia	Tupelo	3"	B&B	AS SHOWN
NSY	3	Nyssa sylvatica	Red Oak	3"	B&B	AS SHOWN
QRU	3	Quercus rubra		3"	B&B	AS SHOWN



**VICINITY MAP**  
 SCALE 1" = 2,000'

**TREE LIST**

ID #	Common Name	Botanical Name	DBH	CEZ (4.1 CEZ (Inches))	Condition/Remarks	
901	Red Maple	Acer rubrum	26	47%	39 Poor - mt, epicormic growth, deadwood, large cavity	
902	Tree of Heaven	Ailanthus altissima	18	23%	21 Fair - deadwood, vines, offsite	
903	Red Maple	Acer rubrum	14	13%	21 Fair - cavity at base, offsite	
904	Black Locust	Robinia pseudoacacia	17	20%	25 Fair - var. deadwood	
905	Silver Maple	Acer saccharinum	31	67%	45 Poor - heavy vines, detached, offsite	
906	Norway Maple	Acer platanoides	21	31%	31.5 Poor - two large cavity, deadwood	
907	Hawthorn	Ilex verticillata	20	26%	30 Fair - deadwood	
908	Blue Spruce	Picea pungens	16	18%	24 Fair - heavy vines, deadwood	
909	Sugar Maple	Acer saccharum	7	3%	10.5 Fair - vines, det. cavity toward crown	
910	Sweet Magnolia	Magnolia sweetgum	7	8	12 Fair - irregular damage, deadwood	
911	Japanese Lilac	Syringa reticulata	6	2%	9 Good - dry	
912	White Pine	Pinus strobus	14	10%	18 Good	
913	Cape Myrtle	Laguncularia leucostachya	9	5%	13.5 Good - deadwood (9 stems 3' dia)	
914	White Mulberry	Morus alba	12	9	18 Fair - deadwood, black oak	
915	Norway Maple	Acer platanoides	11	6%	16.5 Poor - absent dead, large cavity, vines, mt	
916	Norway Maple	Acer platanoides	19	8	25.5 Poor - mt, vines	
917	Norway Maple	Acer platanoides	14	14%	21 Fair - vines	
918	Norway Maple	Acer platanoides	20	5	20.5 Fair - vines, deadwood, small cracks in trunk	
919	White Mulberry	Morus alba	10	7%	15 Poor - heaviest, cavity, deadwood, damage to branches	
920	Goldenrain Tree	Koeleria paniculata	12	10%	18 Good	
921	Tree of Heaven	Ailanthus altissima	20	26%	30 Fair - deadwood	
922	Norway Maple	Acer platanoides	15	16%	22 Fair - deadwood, curved trunk	
923	Black Cherry	Prunus serotina	14	13%	21 Poor - deadwood, mt	
924	Sugar Maple	Acer saccharum	10	7%	15 Fair - deadwood, vines, mt, roots of 925	
925	Black Cherry	Prunus serotina	21	31%	31.5 Fair - vines, deadwood	
926	Norway Maple	Acer platanoides	13	13%	19.5 Fair - deadwood	
927	Norway Maple	Acer platanoides	16	16%	24 Fair - poor vines, crack in trunk, included bark, heaviest, var. deadwood	
928	Douglas Fir	Pseudotsuga mucronata	14	13%	21 Poor - topped	
929	Norway Spruce	Picea canadensis	31	67%	45 Good	
930	Honeysuckle	Lonicera japonica	20	26%	30 Fair - deadwood, two small cavity, epicormic growth, leaves hollowing	
931	American Elm	Ulmus americana	39	10%	58.5 Fair - deadwood, epicormic growth	
932	Norway Spruce	Picea canadensis	16	16%	24 Fair - deadwood, dead limbs, 1 dead angery	
933	Sugar Maple	Acer saccharum	41	116%	61.5 Poor - deadwood but canopy ok, lots of mt in trunk at base	
934	Catalpa	Bignonia speciosa	31	4%	4 Good	
935	Black Walnut	Juglans nigra	39	10%	58.5 Fair - deadwood, cracks bark over	
936	Norway Maple	Acer platanoides	20	26%	30 Fair	
937	Black Cherry	Prunus serotina	15	15%	22.5 Fair - deadwood, offsite	
938	Tree of Heaven	Ailanthus altissima	15	15%	22.5 Fair - deadwood, offsite	
939	Black Locust	Robinia pseudoacacia	10	7%	15 Poor - deadwood	
940	Tree of Heaven	Ailanthus altissima	21	31%	31.5 Fair - heavy vines, offsite	
941	Sweet Cherry	Prunus avium	10	7%	15 Poor - deadwood, vines, offsite	
942	Tree of Heaven	Ailanthus altissima	12	10%	18 Fair - deadwood	
943	Sweet Cherry	Prunus avium	12	10%	18 Poor - deadwood, vines, offsite	
944	Black Locust	Robinia pseudoacacia	12	10%	18 Fair - vines, deadwood, large, offsite	
945	Tree of Heaven	Ailanthus altissima	12	10%	18 Fair - vines, offsite	
946	Tree of Heaven	Ailanthus altissima	15	15%	22.5 Fair - vines, offsite	
947	Tree of Heaven	Ailanthus altissima	15	15%	22.5 Poor - vines, deadwood, offsite	
948	Sweet Cherry	Prunus avium	10	7%	15 Poor - vines, deadwood, offsite	
949	Tree of Heaven	Ailanthus altissima	6	2%	9 Fair - offsite	
950	Black Locust	Robinia pseudoacacia	12	10%	18 Dead - vines, offsite	
951	Tree of Heaven	Ailanthus altissima	8	4%	12 Fair - vines	
952	Tree of Heaven	Ailanthus altissima	10	7%	15 Fair - vines	
953	Tree of Heaven	Ailanthus altissima	10	7%	15 Fair - vines	
954	Tree of Heaven	Ailanthus altissima	15	15%	22.5 Fair - vines	
955	Tree of Heaven	Ailanthus altissima	20	26%	30 Fair - deadwood, vines, offsite	
956	Tree of Heaven	Ailanthus altissima	19	25%	29 Poor - deadwood, vines, offsite	
957	Tree of Heaven	Ailanthus altissima	30	70%	15 Poor - heavy vines, offsite	
958	Black Locust	Robinia pseudoacacia	12	10%	18 Poor - heavy vines	
959	Tree of Heaven	Ailanthus altissima	12	10%	18 Poor - vines, split	
960	Tree of Heaven	Ailanthus altissima	8	4%	12 Poor - vines, split	
961	Norway Maple	Acer platanoides	8	4%	12 Fair - deadwood, cavity, wood decay in branches, offsite	
962	Norway Maple	Acer platanoides	8	4%	12 Fair - deadwood, vines	
963	Norway Maple	Acer platanoides	15	15%	22.5 Fair - deadwood, vines	
964	Norway Maple	Acer platanoides	15	15%	22.5 Fair - vines, deadwood, offsite	
965	Tree of Heaven	Ailanthus altissima	6	2%	9 Fair - offsite	
966	Tree of Heaven	Ailanthus altissima	4	2%	6 Good - offsite	
967	Tree of Heaven	Ailanthus altissima	14	13%	21 Poor - vines, deadwood, offsite	
968	Black Locust	Robinia pseudoacacia	14	13%	21 Poor - deadwood, heavy vines, offsite	
969	Silver Maple	Acer saccharinum	26	12	47%	39 Fair - cavity in trunk, deadwood, vines, offsite
970	Silver Maple	Acer saccharinum	13	13%	19.5 Good - offsite	
971	Tree of Heaven	Ailanthus altissima	8	4%	12 Good	
972	Black Locust	Robinia pseudoacacia	10	7%	15 Fair - vines, offsite	
973	Tree of Heaven	Ailanthus altissima	10	7%	15 Good	
974	White Mulberry	Morus alba	18	23%	27 Poor - deadwood, vines, offsite	
975	Red Maple	Acer rubrum	23	37%	34.5 Good - offsite	
976	Sweet Cherry	Prunus avium	21	31%	31.5 Fair - heavy vines in trunk, black oak, deadwood, offsite	
977	Silver Maple	Acer saccharinum	20	26%	30 Good - heavy vines, offsite	
978	Silver Maple	Acer saccharinum	20	26%	30 Good - heavy vines, offsite	
979	Red Maple	Acer rubrum	24	40%	36 Good	
980	Silver Maple	Acer saccharinum	24	40%	36 Fair - deadwood, damaged branch	
981	Tree of Heaven	Ailanthus altissima	15	15%	22.5 Good	
982	American Elm	Ulmus americana	6	2%	9 Fair - cavity, mt damage, hole at base in soil, cavity concern, offsite	
983	Red Maple	Acer rubrum	20	26%	30 Fair - cavity, mt damage, hole at base in soil, cavity concern, offsite	
984	Tree of Heaven	Ailanthus altissima	23	37%	34.5 Fair - deadwood	
985	Silver Maple	Acer saccharinum	29	46%	45.5 Poor - large cavity in trunk, root rot, cavity, canopy ok	
986	Honeylocust	Gleditsia triacanthos	19	25%	25.5 Fair - deadwood, crack with root	
987	Silver Maple	Acer saccharinum	15	15%	22.5 Good - offsite	
988	Silver Maple	Acer saccharinum	11	6%	16.5 Good	
989	Honeylocust	Gleditsia triacanthos	17	20%	25.5 Fair - deadwood	
990	Norway Maple	Acer platanoides	24	40%	36 Fair - cavity, deadwood, offsite	
991	Silver Maple	Acer saccharinum	26	47%	39 Poor - heavy vines, detached	
992	Silver Maple	Acer saccharinum	10	7%	15 Good	
993	Black Locust	Robinia pseudoacacia	6	2%	9 Good	
994	Silver Maple	Acer saccharinum	28	55%	42 Good - vine approximate, cavity	
995	Tree of Heaven	Ailanthus altissima	7	3%	10.5 Fair - deadwood, offsite	
996	Sugar Maple	Acer saccharum	7	3%	10.5 Fair - deadwood, cavity	
997	American Elm	Ulmus americana	22	34%	33 Fair - vines	
998	Silver Maple	Acer saccharinum	20	26%	30 Good - vines	
999	Silver Maple	Acer saccharinum	15	15%	22.5 Fair - heavy vines, deadwood, offsite	
1000	Dead tree		20	26%	30 dead - offsite, approximate size	
1001	Tree of Heaven	Ailanthus altissima	4	1%	6 Good	
1002	Tree of Heaven	Ailanthus altissima	6	2%	9 Good	

**REVISIONS**

NO.	DESCRIPTION	DATE

**TAX MAP EW411** WSSC 232N113  
 L.33247 F.158

**2ND ELECTION DISTRICT**  
 MONTGOMERY COUNTY  
 MARYLAND

**P311 & N366**  
**HAMMER HILL SCHOOL**

**PROJ. MGR** DCM  
**DRAWN BY** FCJ  
**SCALE** 1" = 30'  
**DATE** 02.10.2021

**FINAL FOREST CONSERVATION PLAN**  
**MNCPPC #820210090**

**L8.01**

**PROJECT NO.** 13.109.41  
**SHEET NO.** 1 OF 2

**FOREST CONSERVATION NOTES:**

SUBJECT PROPERTY: PARCEL 311 AND N366 AT L.33247 F.158 OF HAMMER HILL. PROPERTY ADDRESS IS 25310 FREDERICK ROAD WITH TAX ID #02-00021673 AND #02-00021695.  
 ZONING CLASSIFICATION: PROPERTY IS ZONED CRT-0.5 C-O-5 R-0.5 H-4-5. PROPERTY IS WITHIN THE CLARKSBURG EAST OVERLAY ZONE.  
 WATERSHED: LITTLE SENECA CREEK AND 10 MILE CREEK  
 SPECIAL PROTECTION AREA: CLARKSBURG AND 10 MILE CREEK  
 PRIMARY MANAGEMENT AREA: NA

**DEVELOPER'S CERTIFICATE**

The undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. 820210090, including financial bonding, forest planting, maintenance and all other applicable agreements.

Developer's Name: Jaisai Properties, LLC  
 Company: Jaisai Properties, LLC  
 Dr. Praveen Bolaram  
 Contact Person

Address: 4007 Broadstone St Frederick, MD 21704  
 Phone: 240-423-3615  
 Email: PBOLARUM@GMAIL.COM

Signature:

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

FOR UTILITY LOCATIONS CONTACT "ONE CALL" AT 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

**MHG**  
 Civil Engineers  
 Land Planners  
 Landscape Architects  
 Land Surveyors

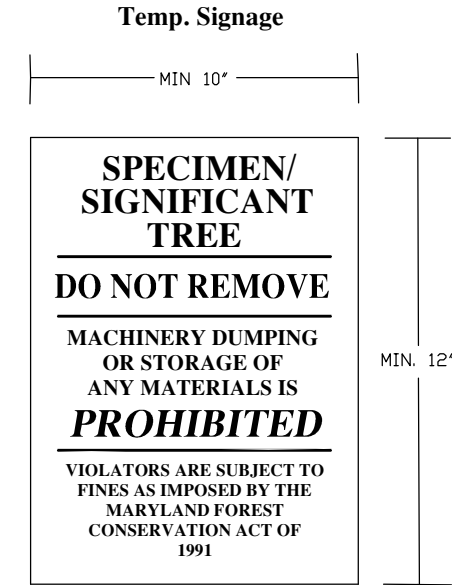
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 Montgomery Village, MD 20886  
 Phone: 301.670.0840  
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FRANK C. JOHNSON  
 DATE: 02/28/2023  
 RECOGNIZED AS QUALIFIED PROFESSIONAL BY MD DEPT. OF NATURAL RESOURCES COMAR 08.19.06.01

Qualified Professional Certification  
 I hereby certify that the information shown herein is correct and that this plan has been prepared in accordance with the requirements of the existing state and county forest conservation legislation.

JAI SAI PROPERTIES, LLC  
 4007 BROADSTONE STREET  
 FREDERICK, MD 21704  
 DR. PRAVEEN BOLARAM  
 PH: 240-423-3615  
 EMAIL: PBOLARUM@GMAIL.COM



**NOTE:**  
 1. Attachment of signs to trees is prohibited.  
 2. Signs should be properly maintained.  
 3. Avoid injury to roots when placing posts for the signs.  
 4. Signs should be posted to be visible to all construction personnel from all directions.

### Sequence of Events for Properties Required To Comply With Forest Conservation Plans, Exemptions from Submitting Forest Conservation Plans, and Tree Save Plans

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector. The measures must meet or exceed the most recent standards published by the American National Standards Institute (ANSI A300).

#### Pre-Construction

- An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.
- The property owner must arrange for the meeting and the following people must participate at the preconstruction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/MD Licensed Tree Expert (representing owner) that will implement the tree protection measures, The Planning Department Forest Conservation Inspector, and Montgomery County Department of Permitting Services (DPS) Sediment Control Inspector. The purpose of this meeting is to verify the limits of disturbance and discuss specific tree protection and tree care measures shown on the approved plan. No land disturbance shall begin before tree protection and stress-reduction measures have been implemented and approved by the Planning Department's Forest Conservation Inspector.
  - Typical tree protection devices include:
    - Chain link fence (four feet high)
    - Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
    - 14 gauge 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
  - Typical stress reduction measures may include, but are not limited to:
    - Root pruning with a root cutter or vibratory plow designed for that purpose. Trenchers are not allowed, unless approved by the Forest Conservation Inspector
    - Crown Reduction or pruning
    - Watering
    - Fertilizing
    - Vertical mulching
    - Root aeration systems
- Measures not specified on the Forest Conservation Plan may be required as determined by the Forest Conservation Inspector in coordination with the property owner's arborist.
- A Maryland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including photographs)

Page 1 of 3

February 2017

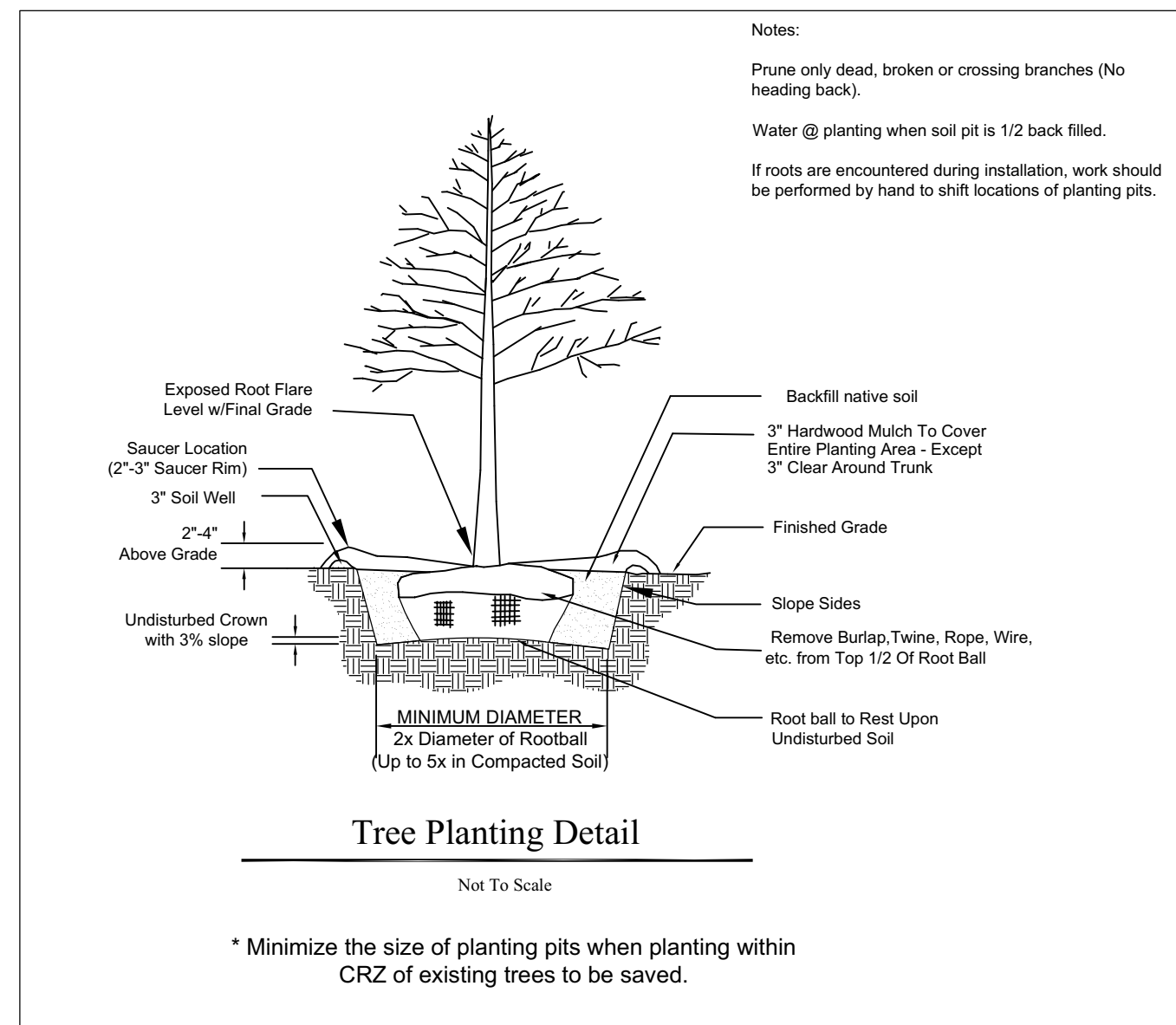
Page 2 of 3

February 2017

Tree ID#	DBH	Species	% Impacted	Condition	Mitigation
911	6	Japanese Lirac	11%	Good	stress reduction measures
933	41	Sugar Maple	11%	Poor	stress reduction measures
932	25	Norway Spruce	10%	Fair	stress reduction measures
931	39	Am. Basswood	6%	Fair	stress reduction measures
989	17	Hickory	28%	Fair	stress reduction measures
983	20	Red Maple	27%	Fair	stress reduction measures
997	22	Am. Elm	17%	Fair	stress reduction measures
998	20	Silver maple	14%	Good	stress reduction measures
980	24	Silver Maple	11%	Fair	stress reduction measures
974	18	White Mulberry	43%	Poor	stress reduction measures
959	19	Black Locust	4%	Poor	stress reduction measures
958	20	Silver Maple	16%	Fair	stress reduction measures
957	15	Ailanthus	13%	Fair	stress reduction measures
955	12	Ailanthus	31%	Fair	stress reduction measures
954	8	Ailanthus	25%	Fair	stress reduction measures
953	8	Ailanthus	23%	Fair	stress reduction measures
952	10	Ailanthus	32%	Fair	stress reduction measures
951	8	Ailanthus	14%	Fair	stress reduction measures
947	15	Ailanthus	33%	Poor	stress reduction measures
949	6	Ailanthus	23%	Fair	stress reduction measures
956	8	Ailanthus	22%	Fair	stress reduction measures
960	10	Ailanthus	13%	Poor	stress reduction measures
961	12	Black Cherry	33%	Poor	stress reduction measures
963	24	Black Cherry	9%	Fair	stress reduction measures
968	22	Black Locust	46%	Poor	stress reduction measures
967	14	Ailanthus	25%	Poor	stress reduction measures
962	8-6	Ailanthus	25%	Poor	stress reduction measures
944	12	Black Locust	25%	Poor	stress reduction measures
943	12	Sweet Cherry	24%	Poor	stress reduction measures
942	12	Ailanthus	31%	Fair	stress reduction measures
941	10	Sweet Cherry	24%	Poor	stress reduction measures
940	21	Ailanthus	28%	Fair	stress reduction measures
990	24-20	Norway Maple	0.4%	Fair	stress reduction measures
907	20	Eastern Hemlock	5.5%	Fair	stress reduction measures
908	16	Blue Spruce	12%	Fair	stress reduction measures

Tree ID#	DBH	Species	Condition	Mitigation
984	23	Ailanthus	Fair	23"
985	29	Silver Maple	Poor	29"
986	19	Hickory	Fair	19"
935	39	Walnut	Fair	39"
912	12	White Pine	Good	12"
913	9	Crepe Myrtle	Good	9"
914	12-9	White Mulberry	Fair	12"
919	10	White Mulberry	Poor	10"
920	12	Goldenrain Tree	Good	12"
NA	10	Chinese Elm	Good	10"
950	12	Black Locust	Dead	0"
946	15	Mulberry	Fair	15"
945	12	Ailanthus	Poor	12"
948	10	Cherry	Poor	10"
Total:				212"

212" removed/4 = 53" to be met via 18 trees at 3"dbh  
 \*Note: Chinese Elm was planted along right of way but planted in adjacent property which is part of Historic District therefore the tree is included in variance.



\* Minimize the size of planting pits when planting within CRZ of existing trees to be saved.

- may be required by the Forest Conservation Inspector, and will be determined at the preconstruction meeting.
- Temporary protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance. The Forest Conservation Inspector, in coordination with the DPS Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan.
  - Tree protection fencing must be installed and maintained by the property owner for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. All construction activity within protected tree and forest areas is prohibited. This includes the following activities:
    - Parking or driving equipment, machinery, or vehicles of any type.
    - Storage of any construction materials, equipment, stockpiling, fill, debris, etc.
    - Dumping or any chemicals (i.e., paint thinner), mortar or concrete remainder, trash, garbage, or debris of any kind.
    - Felling of trees into a protected area.
    - Trenching or grading for utilities, irrigation, drainage, etc.
  - Forest and tree protection signs must be installed as required by the Forest Conservation Inspector. The signs must be waterproof and wording provided in both English and Spanish.

#### During Construction

- Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to all tree protection devices must be completed within the timeframe given by the Inspector.
- The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan. Remedial actions, and the relative timeframes to restore these areas, will be determined by the Forest Conservation Inspector.

#### Post-Construction

- After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include:
  - Removal, and possible replacement, of dead, dying, or hazardous trees
  - Pruning of dead or declining limbs
  - Soil aeration
  - Fertilization
  - Watering

- Wound repair
  - Clean up of retention areas, including trash removal
- After the final inspection and completion of all corrective measures the Forest Conservation Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both DPS and the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.
  - Long-term protection measures, including permanent signage, must be installed per the approved plan. Installation will occur at the appropriate time during the construction project. Refer to the approved plan drawing for the long-term protection measures to be installed.

Page 3 of 3

February 2017

#### INSPECTIONS

All field inspections must be requested by the applicant.

Field Inspections must be conducted as follows:

- Plans without Planting Requirements
- After the limits of disturbance have been staked and flagged, but before any clearing or grading begins.
  - After necessary stress reduction measures have been completed and protection measures have been installed, but before any clearing and grading begin and before release of the building permit.
  - After completion of all construction activities, but before removal of tree protection fencing, to determine the level of compliance with the provision of the forest conservation.
- Additional Requirements for Plans with Planting Requirements
- Before the start of any required reforestation and afforestation planting.
  - After the required reforestation and afforestation planting has been completed to verify that the planting is acceptable and prior to the start the maintenance period.
  - 2 years after reforestation and afforestation have been completed, to determine survival and assess necessary maintenance activities for the remaining duration of the maintenance and management period.
  - At the end of the maintenance period to determine the level of compliance with the provisions of the planting plan, and if appropriate, release of the performance bond.



Civil Engineers  
 Land Planners  
 Landscape Architects  
 Land Surveyors

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FRANK C. JOHNSON  
 03/06/2023

DATE  
 RECOGNIZED AS QUALIFIED PROFESSIONAL BY  
 MD DEPT. OF NATURAL RESOURCES  
 COMAR 08.19.06.01

Qualified Professional Certification  
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 EMAIL: PBOLARUM@GMAIL.COM

NO.	DESCRIPTION	DATE

TAX MAP EW341 WSSC 2320N13

L.33247 F.158

2ND ELECTION DISTRICT  
 MONTGOMERY COUNTY  
 MARYLAND

**P311 & N366  
 HAMMER HILL SCHOOL**

PROJ. MGR DCM

DRAWN BY FCJ

SCALE 1" = 30'

DATE 02.10.2021

**FINAL FOREST  
 CONSERVATION PLAN  
 MNCPPC #820210090**


PROJECT NO. 13.109.41

SHEET NO. 2 OF 2

DESCRIPTION	SIZE
Property Area	3.52 Acres
Off-site Disturbance	0.50 Acres
Total Tract Area	4.02 Acres
Tract remaining in Ag use	0.00 Acres
Road & Utility ROW (Unimproved)	0.00 Acres
Existing Forest	0.00 Acres
Total Forest Retention	0.00 Acres
Total Forest Cleared	0.00 Acres
Land Use Category	MPO
Afforestation Threshold	15%
Reforestation Threshold	20%
Stream(s) Length: NA	Average Buffer Width: NA

Acres of Forest in:	Retained	Cleared	Planted
Wetlands	0.00	0.00	0.00
100yr Floodplain	0.00	0.00	0.00
Stream Buffers	0.00	0.00	0.00
Other Priority Areas	0.00	0.00	0.00

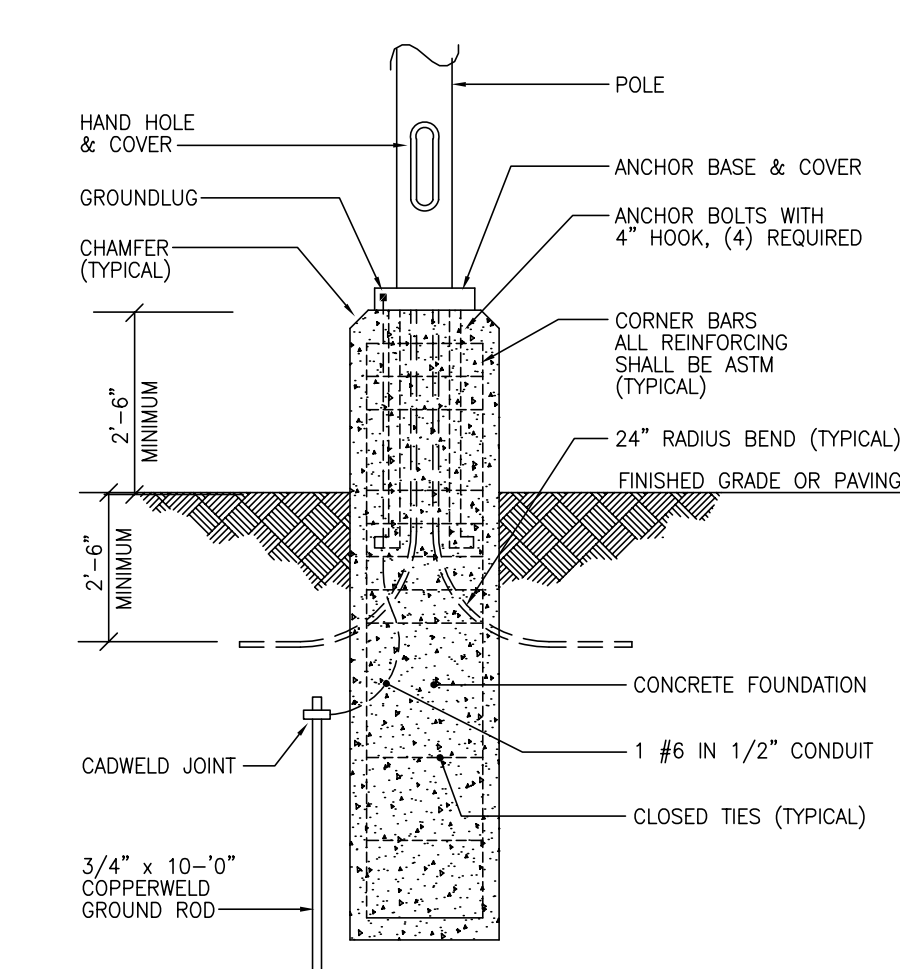
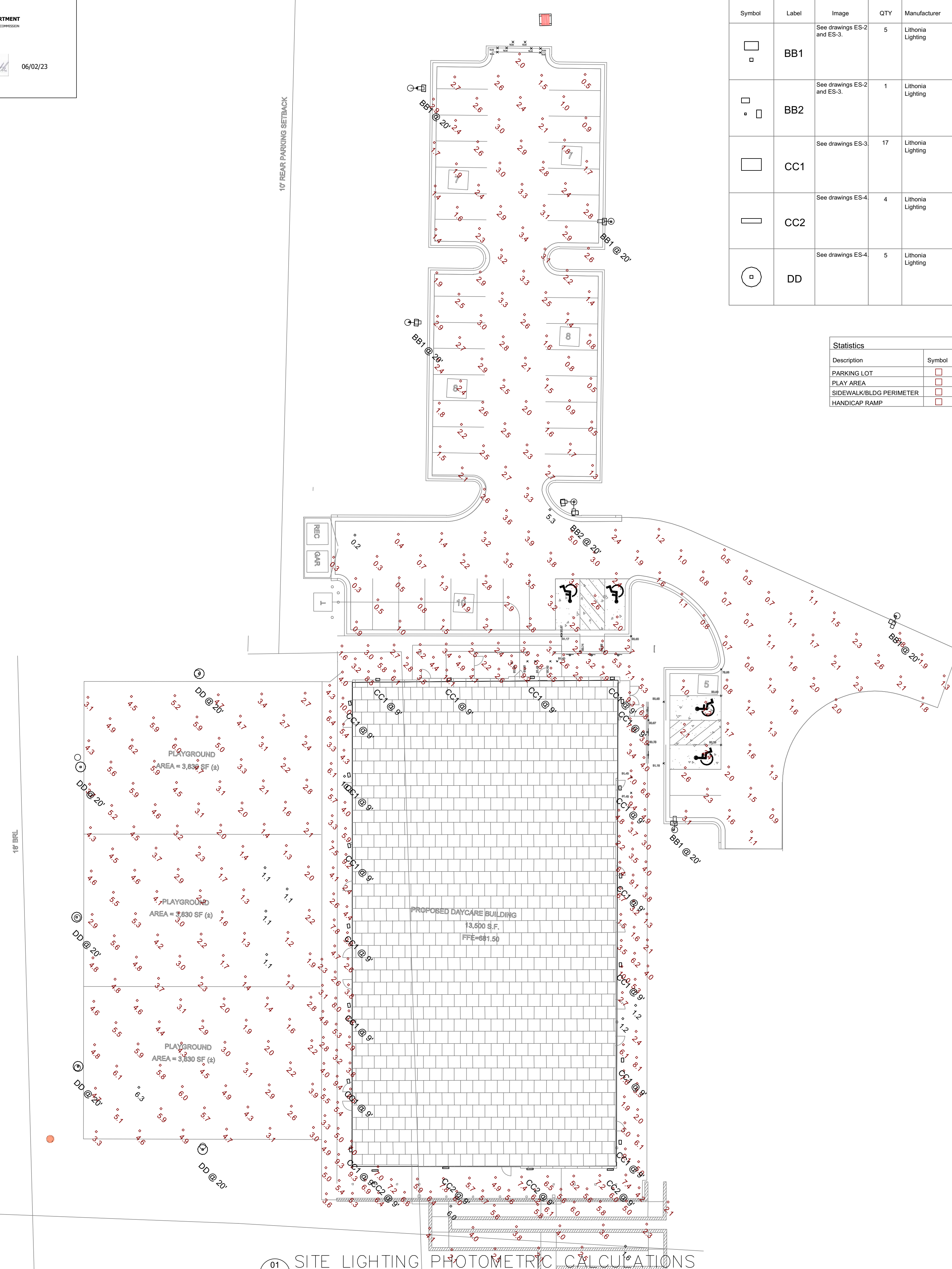
**DEVELOPER'S CERTIFICATE**  
 The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. 820210090, including financial bonding, forest planting, maintenance and all other applicable agreements.  
 Developer's Name: Jaisai Properties, LLC Dr. Praveen Bolaram  
 Company Contact Person  
 Address: 4007 Broadstone St Frederick, MD 21704  
 Phone: 240-423-3615  
 Email: PBOLARUM@GMAIL.COM  
 Signature: 

  
 Know what's below.  
 Call before you dig.  
 FOR UTILITY LOCATIONS  
 CONTACT "ONE CALL" AT 811  
 AT LEAST 48 HOURS  
 PRIOR TO CONSTRUCTION

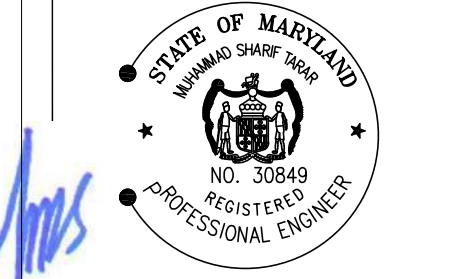
**L8.02**

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes
	BB1	See drawings ES-2 and ES-3.	5	Lithonia Lighting	DSX0 LED P4 40K TFTM MVOLT HS	DSX0 LED P4 40K TFTM MVOLT with houselid shield	LED	1	DSX0_LED_P4_40K_TFTM_MVO LT_HS.ies	8243	1	0.9	92	100%	TYPE III, VERY SHORT, BUG RATING: B1 - U0 - G2		
	BB2	See drawings ES-2 and ES-3.	1	Lithonia Lighting	DSX0 LED P4 40K TFTM MVOLT HS	DSX0 LED P4 40K TFTM MVOLT with houselid shield	LED	1	DSX0_LED_P4_40K_TFTM_MVO LT_HS.ies	8243	1	0.9	184	100%	TYPE III, VERY SHORT, BUG RATING: B1 - U0 - G2		
	CC1	See drawings ES-3	17	Lithonia Lighting	WDGE2 LED P2 40K 80CRI VF	WDGE2 LED WITH P2 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT FORWARD OPTIC	LED	1	WDGE2_LED_P2_40K_80CRI_VF.ies	2023	1	0.9	14.53	100%	TYPE III, VERY SHORT, BUG RATING: B1 - U0 - G0		
	CC2	See drawings ES-4	4	Lithonia Lighting	DSXW1 LED 20C 700 40K TFTM MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T1FTM OPTIC, 4000K, @ 700mA.	LED	1	DSXW1_LED_20C_700_40K_TFTM_MVOLT.ies	5554	1	0.9	45.7	100%	TYPE IV, SHORT, BUG RATING: B1 - U0 - G2		
	DD	See drawings ES-4	5	Lithonia Lighting	RADPT P5 40K ASY	RADEAN Post-Top with P5 4000K Asymmetric distribution	LED	1	RADPT_P5_40K_ASY.ies	15436	1	0.9	122.5564	100%	TYPE IV, VERY SHORT, BUG RATING: B3 - U2 - G3		

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING LOT		2.0 fc	5.3 fc	0.2 fc	26.5:1	10.0:1
PLAY AREA		3.6 fc	6.3 fc	1.1 fc	5.7:1	3.3:1
SIDEWALK/BLDG PERIMETER		5.1 fc	10.8 fc	1.2 fc	9.0:1	4.3:1
HANDICAP RAMP		3.5 fc	6.0 fc	1.6 fc	3.8:1	2.2:1



Note: REFER TO CIVIL ENGINEERS SITE DRAWINGS FOR CONSTRUCTION LOCATION, QUANTITY, & INSTALLATION OF POLE BASES.



I certify that these documents were prepared by me and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 35549, expiration date 8/7/11/24.

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NO.	DESCRIPTION	DATE

TAX MAP EWS1 WSSC 2326N13

2TH ELECTION DISTRICT  
 MONTGOMERY COUNTY  
 MARYLAND

**HAMMER HILL, PARCEL P3  
 CLARKSBURG HIGHLANDS  
 PART OF BLOCK D**

PROJ. MGR ST  
 DRAWN BY JW  
 SCALE AS SHOWN  
 DATE 09.29.2020

**DEVELOPER'S CERTIFICATE**  
 THE UNDERSIGNED AGREES TO EXECUTE ALL THE FEATURES OF SITE PLAN APPROVAL NO. 820210090 INCLUDING APPROVAL CONDITIONS, DEVELOPMENT PROGRAM, AND CERTIFIED SITE PLAN.  
 DEVELOPER: JAISAI PROPERTIES, LLC DR. PRAVEEN BOLARAM  
 COMPANY CONTACT PERSON  
 ADDRESS: 4700 BROADSTONE STREET, FREDERICK, MD 21704  
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 EMAIL: PBOLARUM@GMAIL.COM  
 SIGNATURE: *PB*

**SHEET NAME  
 PHOTOMETRIC  
 CALCULATIONS AND  
 DETAILS -  
 ELECTRICAL**

PROJECT NO. 13.108.41  
 SHEET NO. 1 OF 4





### D-Series Size 1 LED Wall Luminaire

**d'series**  
**Specifications Luminaire**  
 Width: 13-3/4" (347mm) Weight: 12 lbs (5.4kg)  
 Depth: 4" (102mm) Height: 6-3/8" (163mm)

**Back Box (BBW, ELCW)**  
 Width: 13-3/4" (347mm) Height: 4" (102mm)  
 Depth: 6-3/8" (163mm) Weight: 10 lbs (4.5kg)

**Introduction**  
 The D-Series Wall Luminaire is a stylish, fully integrated LED solution for building mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance. With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

**Ordering Information**  
 EXAMPLE: DSKW1 LED 2C 1000 40K T3M MVOLT DBTBT

Series	LEDs	Power Current	Color Temperature	Distribution	Voltage	Mounting	Control Options
DSKW1 LED	1000 LEDs 1000 LEDs 1000 LEDs	350 350 350	3000K 4000K 5000K	T5 T5 T5	120V 277V 347V	MVOLT T3M T3M	DBTBT DBTBT DBTBT

**Accessories**

**Other Options**

**Shipped installed**

**Shipped separately**

**Notes**

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### Performance Data CC2

**Lumen Output**  
 Lumen values are from photometric tests performed in accordance with IESNA LM-79-09. Contact factory for performance data on any configurations not shown here.

Series	Power	Beam Angle	Beam Diameter @ 100'	Beam Diameter @ 200'	Beam Diameter @ 300'	Beam Diameter @ 400'	Beam Diameter @ 500'	Beam Diameter @ 600'	Beam Diameter @ 700'	Beam Diameter @ 800'	Beam Diameter @ 900'	Beam Diameter @ 1000'
3500A	150W	120°	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
			2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
			3000	3000	3000	3000	3000	3000	3000	3000	3000	3000

**Lumen Ambient Temperature (LAT) Multipliers**

**Projected LED Lumen Maintenance**

**Photometric Diagrams**

**Options and Accessories**

**Features & Specifications**

**Electrical Load**

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### Performance Data CC2

**Lumen Output**

**Lumen Ambient Temperature (LAT) Multipliers**

**Projected LED Lumen Maintenance**

**Photometric Diagrams**

**Options and Accessories**

**Features & Specifications**

**Electrical Load**

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**MHG**  
 Civil Engineers  
 Land Planners  
 Landscape Architects  
 Land Surveyors

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STATE OF MARYLAND  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 32569

I certify that these documents were prepared by me and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 32569.

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**ARCHITECT:**  
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 EMAIL: SKAHLE@STUDIO47.COM

**REVISIONS**

NO.	DESCRIPTION	DATE

**TAX MAP 09/1**      **WBSC 2309/13**

**27th ELECTION DISTRICT**  
**MONTGOMERY COUNTY**  
**MARYLAND**

**HAMMER HILL, PARCEL P311**  
**CLARKSBURG HIGHLANDS,**  
**PART OF BLOCK D**

**PROJ. MGR/ITS**      **ST**

**DRAWN BY**      **JW**

**SCALE**      **AS SHOWN**

**DATE**      **09.29.2020**

**SHEET NAME**  
**PHOTOMETRIC CALCULATIONS**

**PROJECT NO.**      **13.109.41**

**SHEET NO.**      **4 OF 4**

### Radean Post Top LED Area Luminaire

**Specifications**  
 EPA: 1.02 ft<sup>2</sup> (0.105 m<sup>2</sup>)  
 Length: 81 cm  
 Width: 24" (61 cm)  
 H1 Luminaire Height: 4" (0.1016 m)  
 H2 Luminaire Height: 26" (66.04 cm)  
 Weight: 38 lbs (17.24 kg)

**Introduction**  
 The architecturally-inspired shape of the RADEAN™ post top area luminaire embodies the grace and strength of the RADEAN family. The twin copper-core cast aluminum arms support the slender superstructure, creating a beautiful sculpture by day transforming into a beacon of comfort by night. Triangular arms redirect reflection maintaining its visually quiet appearance. With sleek lines and simple silhouettes, these LED luminaires use specialized lighting and visual comfort to transform common areas like courtyards, outdoor retail locations, universities and corporate campuses into pedestrian-friendly nighttime environments.

**Ordering Information**  
 EXAMPLE: RADPT LED P3 30K SYM MVOLT P14 PIR DNAXD

Series	Performance per package	Color Temperature	Distribution	Voltage	Mounting
RADPT LED	P1 3000K P2 3000K P3 3000K P4 3000K	30K 3000K 40K 5000K	SYM ASY PAR PAR	120V 277V 347V 240V	P14 RADPT26 RADPT25 RADPT25

**Control Options**

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### Performance Data DD

**Lumen Output**

**Lumen Ambient Temperature (LAT) Multipliers**

**Projected LED Lumen Maintenance**

**Photometric Diagrams**

**Options and Accessories**

**Features & Specifications**

**Electrical Load**

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### Performance Data DD

**Lumen Output**

**Lumen Ambient Temperature (LAT) Multipliers**

**Projected LED Lumen Maintenance**

**Photometric Diagrams**

**Options and Accessories**

**Features & Specifications**

**Electrical Load**

One Lithonia Way • Corning, Georgia 30012 • Phone: 1-800-765-SEV (378) • www.lithonia.com  
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### Performance Data DD

**Lumen Output**

**Lumen Ambient Temperature (LAT) Multipliers**

**Projected LED Lumen Maintenance**

**Photometric Diagrams**

**Options and Accessories**

**Features & Specifications**

**Electrical Load**

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REVISIONS		
NO.	DESCRIPTION	DATE
1	RESOLUTION APPROVAL	9/21/22

TAX MAP E911 WSSC 230RW13

27th ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

**HAMMER HILL, PARCEL P311  
CLARKSBURG HIGHLANDS,  
PART OF BLOCK D**

PROJ. MGR  
DRAWN BY  
SCALE AS SHOWN  
DATE 04.12.22

FOUNDATION PLAN,  
SECTIONS & NOTES

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No.: 32926, Expiration Date: 5/28/2024.

**S1.01**  
PROJECT NO. 13.109.41  
SHEET NO. 1 OF 1

**DIVISION 1 - GENERAL REQUIREMENTS**

GENERAL CODES AND STANDARDS

BUILDING CODES: 2018 INTERNATIONAL BUILDING CODE

RISK CATEGORY: II

WIND CRITERIA

V<sub>basic</sub> = 115 MPH

V<sub>ad</sub> = 89 MPH

EXPOSURE CATEGORY = B

APPLICABLE INTERNAL PRESSURE COEFFICIENTS = +/- .18

COMPONENTS AND CLADDING = (C<sub>WA</sub> = 10 SQFT)

ZONE 4 = 21.16 PSF (DESIGN WIND PRESSURE - UNFACTORED)

ZONE 5 = 26.16 PSF (DESIGN WIND PRESSURE - UNFACTORED)

SEISMIC CRITERIA

I<sub>e</sub> = 1.0

SITE CLASS = D

S<sub>s</sub> = .135

S<sub>1</sub> = .043

S<sub>0.5</sub> = .144

S<sub>D1</sub> = .069

R = 4.0

C<sub>s</sub> = 0.36

SEISMIC DESIGN CATEGORY = B

ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE

SNOW LOADS

P<sub>g</sub> = 30 PSF

I<sub>s</sub> = 1.0

C<sub>e</sub> = 1.0

C<sub>t</sub> = 1.0

P<sub>f</sub> = 21 PSF

RETAINING WALL DESIGN LOADS

ACTIVE FLUID PRESSURE = 40 PSF/FT

SOIL UNIT WEIGHT = 120PCF

SLIDING FRICTION = .35

LOADS GREATER THAN THE DESIGN LOADS STATED ABOVE SHALL NOT BE PLACED ON THE STRUCTURE DURING OR AFTER CONSTRUCTION.

CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING IN ORDER TO CONSTRUCT THE BUILDING. CONTRACTOR SHALL HAVE ALL TEMPORARY BRACING, SHEETING, SHORING, FORMWORK, UNDERPINNING, ETC. DESIGNED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION. ONE SET OF SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO COMPREHENSIVE STRUCTURAL SOLUTIONS FOR RECORD PURPOSES. COMPREHENSIVE STRUCTURAL SOLUTIONS IS NOT RESPONSIBLE FOR ANY TEMPORARY SHORING.

CONTRACTOR SHALL SUPPORT AND PROTECT ALL ADJACENT UTILITIES, STRUCTURES, EXCAVATIONS, ETC. AS REQUIRED TO INSTALL THE STRUCTURAL ELEMENTS AS CONTAINED WITHIN THIS SET OF DOCUMENTS.

NO MODIFICATION IN SIZE, DIMENSION, POSITION, OR PENETRATION THROUGH ANY STRUCTURAL ELEMENT SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.

REFER TO OTHER DISCIPLINE DRAWINGS FOR LOCATIONS OF SLAB PENETRATIONS, DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, REVEALS, DEPRESSIONS, AND OTHER SUCH ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS. STRUCTURAL DRAWINGS SHOW BASIC STRUCTURAL CONDITIONS. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH OTHER DISCIPLINE DRAWINGS CONTAINED IN THIS SET AND MUST BE COORDINATED AS A WHOLE ELEMENT. DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECTURAL PLANS. DISCREPANCIES BETWEEN THESE NOTES, THE STRUCTURAL PLANS, THE PROJECT SPECIFICATIONS, AND/OR THE DRAWINGS OF OTHER DISCIPLINES SHALL BE DETERMINED BY THE ARCHITECT/ENGINEER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH WORK.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN IN THE CONTRACT DOCUMENTS. IF THE STRUCTURAL DRAWINGS ARE REPLICATED FOR SHOP DRAWING USE BY THE CONTRACTOR, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL INFORMATION SHOWN ON THE SHOP DRAWING. ANY DEVIATIONS FROM THE CONTRACT AS DETAILED ON THE SHOP DRAWINGS SHALL BE HIGHLIGHTED BY THE CONTRACTOR FOR REVIEW BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL ALLOW A MINIMUM OF 10 WORKING DAYS FOR SHOP DRAWING REVIEW.

ALL WORK SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE - SPECIAL INSPECTIONS. ALL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION, HIRED BY THE PROJECT OWNER. ALL INSPECTIONS SHALL BE IN COMPLIANCE WITH LOCAL CODE AMENDMENTS. SPECIAL INSPECTOR SHALL COORDINATE ALL REQUIREMENTS. COMPREHENSIVE STRUCTURAL SOLUTIONS WILL NOT PERFORM CODE REQUIRED INSPECTIONS.

**DIVISION 2 - SITE WORK**

REFER TO THE GEOTECHNICAL REPORT PREPARED BY ECS MID-ATLANTIC DATED 11-18-2020.

FOOTINGS ARE DESIGNED FOR AN ASSUMED BEARING CAPACITY OF 3000 PSF AND SHALL BEAR ON NATURAL UNDISTURBED SOIL OR CONTROLLED ENGINEERED FILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. FOOTINGS SHALL BE LOCATED AT A MINIMUM OF 2 1/2 FEET BELOW EXISTING EXTERIOR GRADE ELEVATION FOR FROST PROTECTION. SOIL BEARING CAPACITY MUST BE VERIFIED BY A QUALIFIED INSPECTOR. IF FIELD CONDITIONS VARY FROM CONDITIONS NOTED IN THE GEOTECHNICAL REPORT, THE GEOTECHNICAL ENGINEER MUST BE NOTIFIED. IF BEARING CAPACITY IS LESS THAN NOTED ABOVE, THE FOUNDATIONS SHALL BE REDESIGNED.

CONTRACTOR MUST PROVIDE FROST PROTECTION FOR ALL FOOTINGS AND SUBGRADES DURING CONSTRUCTION. NO FOOTINGS SHALL BE CAST ON FROZEN MATERIAL.

ALL FILL UNDER SLABS ON GRADE MUST BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. ALL SLABS SHALL HAVE CONTRACTION JOINTS AS LOCATED PER THE PLANS AND TYPICAL DETAILS, BUT IN NO CASE SHALL BE GREATER THAN 15' ON CENTER SPACING.

DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL CONCRETE HAS REACHED 100% DESIGN STRENGTH. TEMPORARY BRACING, DESIGNED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION, MAY BE UTILIZED TO FACILITATE ACCELERATED PLACEMENT OF BACKFILL.

**DIVISION 3 - CONCRETE**

ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE UNLESS OTHERWISE SPECIFIED.

FOR ALL CONCRETE NOT EXPOSED TO WEATHER: F<sub>c</sub>=4500 PSI MINIMUM AT 28 DAYS UNLESS NOTED OTHERWISE.

FOR ALL CONCRETE EXPOSED TO WEATHER: F<sub>c</sub>=4500 PSI MINIMUM AIR-ENTRAINED CONCRETE AT 28 DAYS UNLESS NOTED OTHERWISE. EXPOSED CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.45

THE CONTRACTOR MUST SUBMIT A CONCRETE MIX DESIGN IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION). THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN 1% IS STRICTLY PROHIBITED.

WELDED WIRE FABRIC SHALL BE SUPPORTED BY CHAIRS AND SHALL HAVE ENDS LAPPED AND WIRE TIED ONE FULL MESH AND SHALL EXTEND INTO SUPPORTING WALLS AND/OR BEAMS EXCEPT AT SLAB ON GRADE CONDITIONS.

REINFORCING STEEL, INCLUDING TIES AND STIRRUPS, SHALL BE DEFORMED HIGH STRENGTH BILLET STEEL AND SHALL CONFORM TO ASTM A-615 (LATEST LOCAL APPROVED EDITION) GRADE 60. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND CONSTRUCTED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (ACI-318, LATEST LOCAL APPROVED EDITION).

ALL REINFORCING BARS SHALL BE SUPPORTED BY CHAIRS. REBAR STAKES ARE NOT PERMITTED. WET STICKING OF REBAR DOWELS IS NOT PERMITTED.

ALL REINFORCING SPLICES SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION) UNLESS OTHERWISE NOTED. UNLESS NOTED OTHERWISE, HORIZONTAL WALL REINFORCING SHALL BE BENT AROUND CORNERS AND EXTEND 1'-0" MINIMUM INTO ADJACENT CONSTRUCTION. PROVIDE 4'-0" LONG CORNER BARS TO MATCH HORIZONTAL REINFORCING.

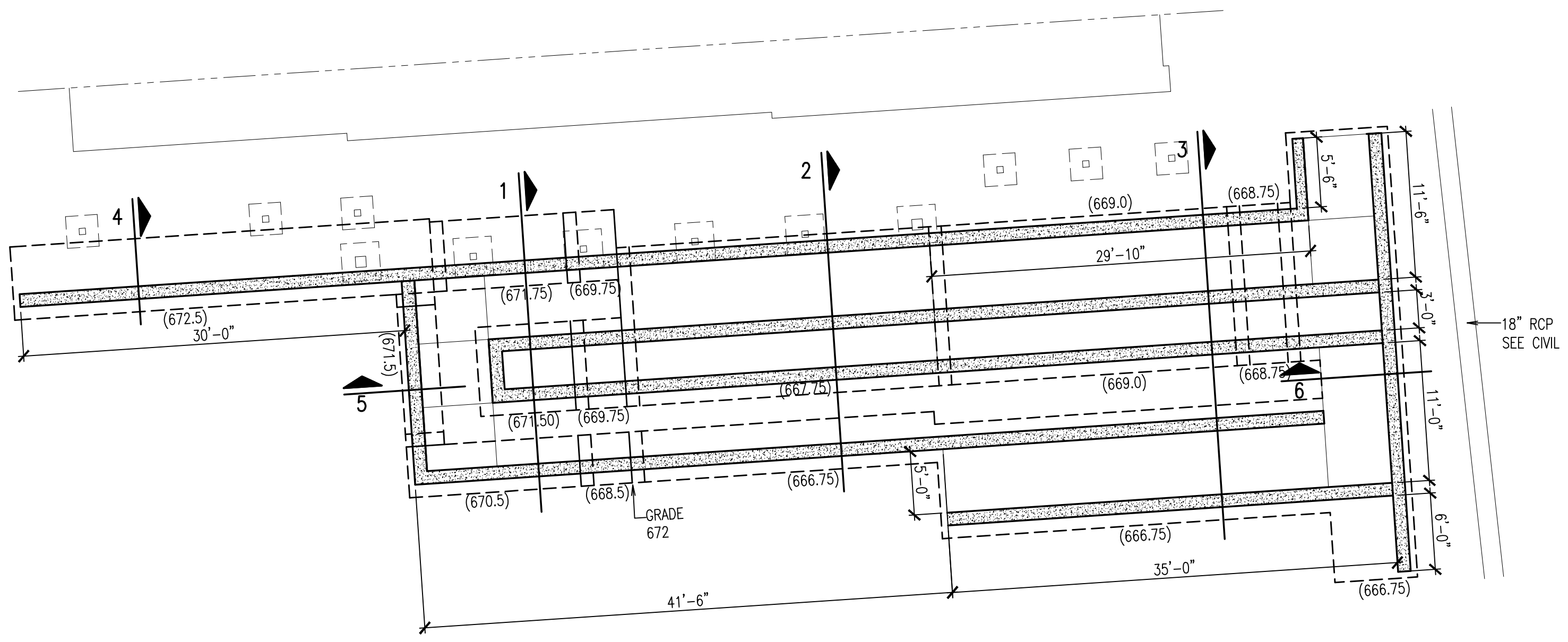
UNLESS OTHERWISE SPECIFIED, PROVIDE THE FOLLOWING MINIMUM CONCRETE PROTECTION:

CAST AGAINST EARTH	3"
EXPOSED TO EARTH OR WEATHER	
#5 AND SMALLER BARS	1 1/2"
#6 AND LARGER BARS	2"
NOT EXPOSED TO EARTH OR WEATHER	
SLABS, WALLS, JOISTS	3/4"
BEAMS, GIRDERS, COLUMNS	1 1/2" TO TIES, STIRRUPS, OR SPIRALS

ALL FORMWORK SHALL BE IN ACCORDANCE WITH THE ACI "FORMWORK FOR CONCRETE" (SPECIAL PUBLICATION #4) AND ACI "STANDARD RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" (ACI-347, LATEST LOCAL APPROVED EDITION).

ALL CAST IN PLACE CONCRETE SLABS AND WALLS SHALL HAVE CONTROL JOINTS PER THE TYPICAL DETAILS.

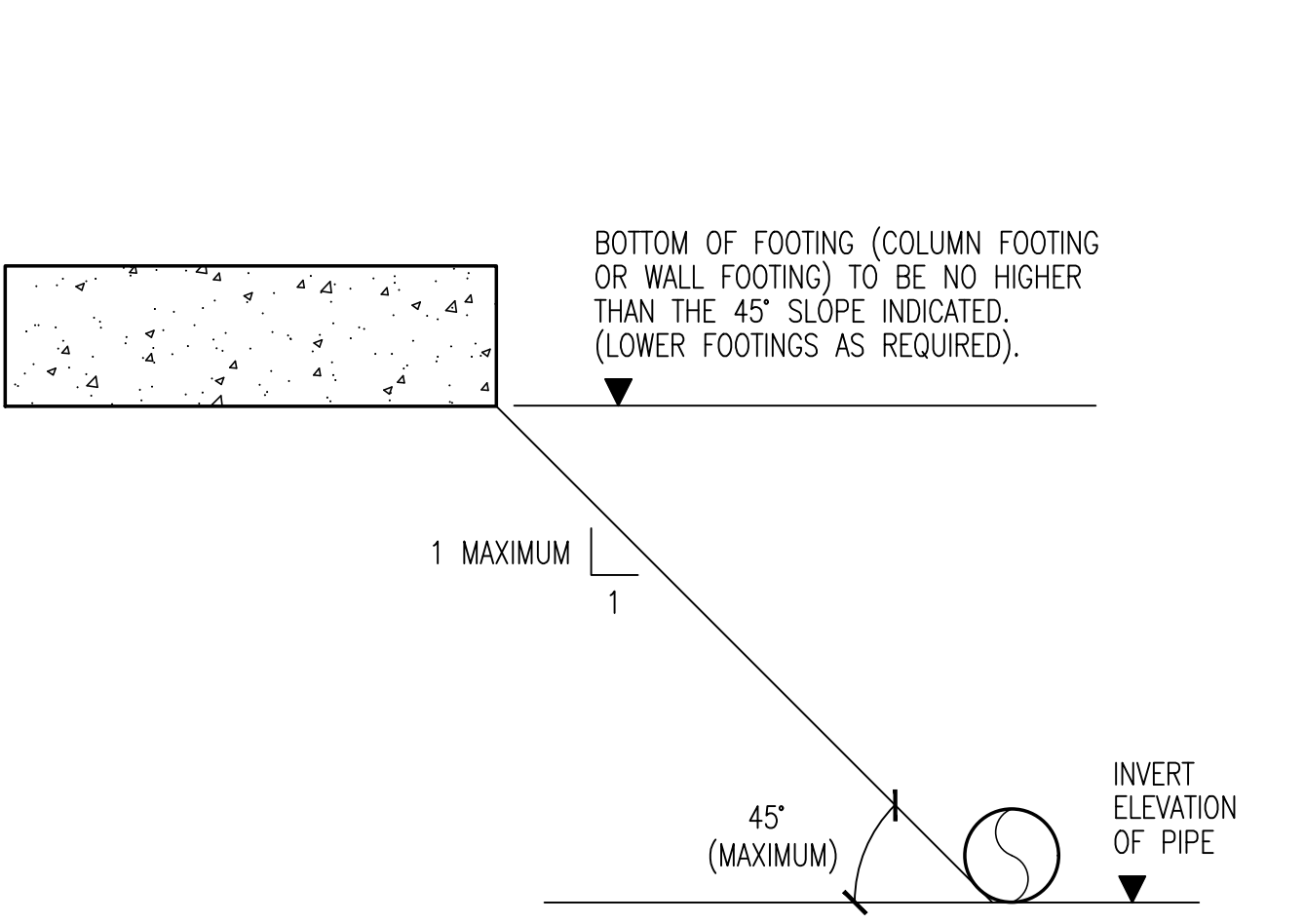
ALL CONCRETE WORK SHALL CONFORM TO THE LATEST CODE APPROVED EDITIONS OF THE ACI AND ASTM SPECIFICATIONS.



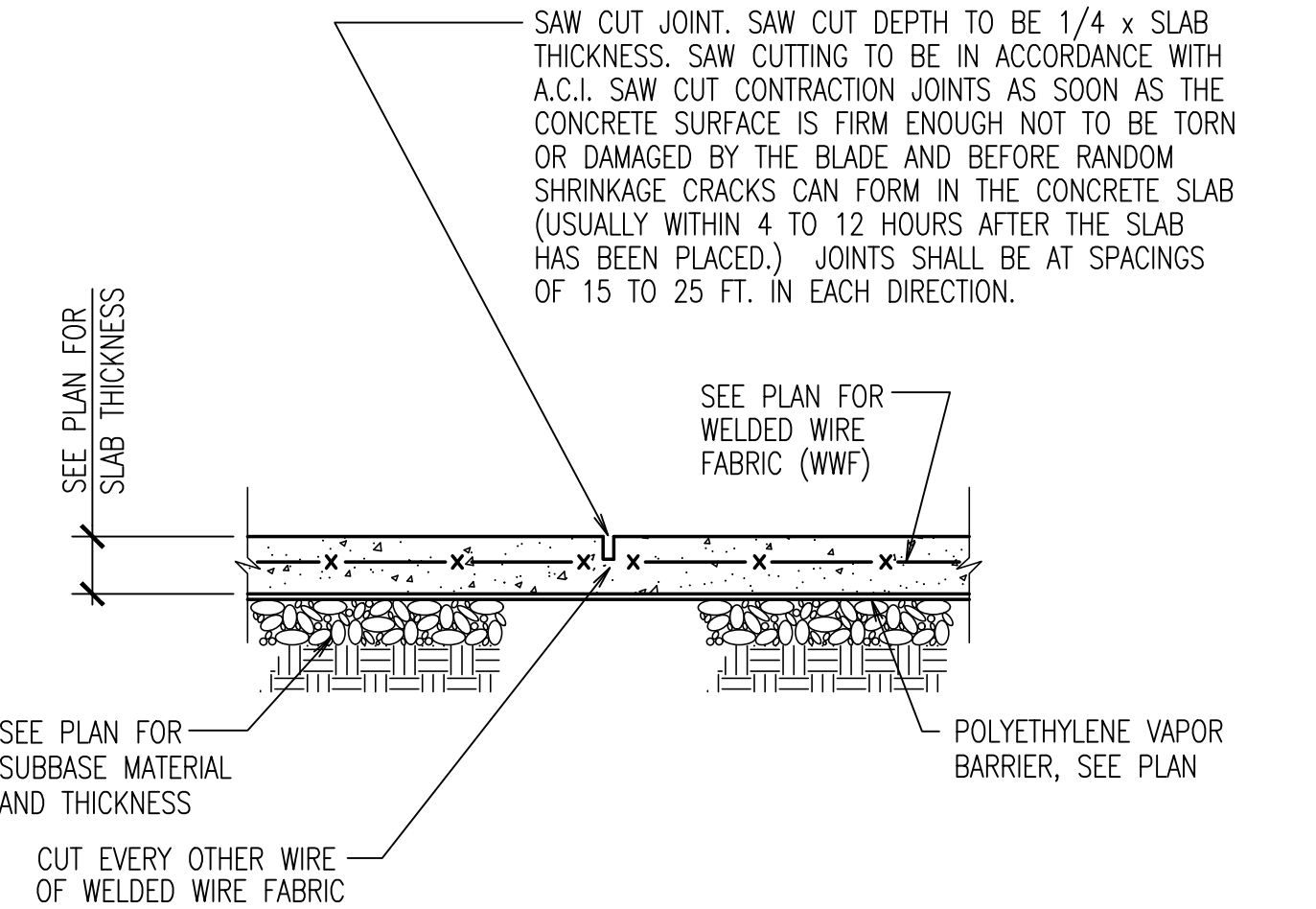
**FOUNDATION PLAN** 1/8" = 1'-0"

FOUNDATION NOTES:

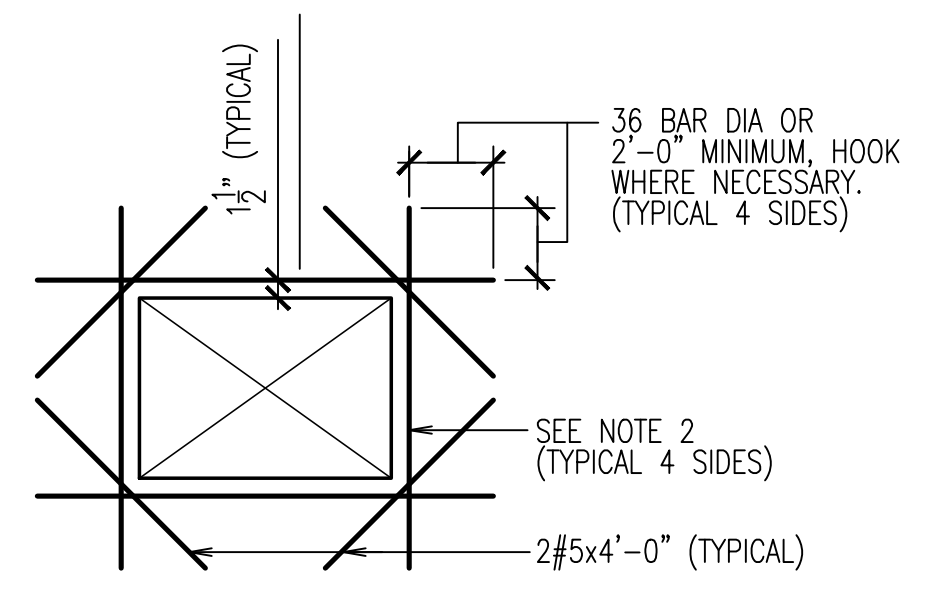
- SLAB ON GRADE SHALL BE 4" NORMAL WEIGHT CONCRETE (F<sub>c</sub>=4500 PSI AE, 145 PCF) WITH 6"x6"-W2.9XW2.9 WELDED WIRE FABRIC OVER VAPOR BARRIER OVER 4" OF COMPACTED WASHED GRAVEL.
- (-0'-0") DENOTES TOP OF FOOTING ELEVATION. FOOTING ELEVATIONS ARE FOR BIDDING PURPOSES ONLY AND MAY HAVE TO BE ADJUSTED BASED ON FIELD CONDITIONS ENCOUNTERED DURING EXCAVATION.
- ALL FOOTINGS SHALL BE LOWERED TO BEAR BELOW ANY UTILITIES. SEE TYPICAL DETAIL. CONTRACTOR FIELD LOCATE ALL FINAL UTILITY LOCATIONS AND COORDINATE INVERT ELEVATIONS WITH FOOTINGS. ADD ADDITIONAL FOOTING STEPS AS NEEDED AT ALL UTILITIES.
- ALL SUBGRADE PREPARATION FOR THE SLAB ON GRADE, FOOTINGS, INSTALLATION OF CONTROLLED FILL, ETC SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR BELOW GRADE UTILITIES, BELOW GRADE CONDUITS, SLAB DEPRESSIONS, SLAB SLOPES, ETC.
- PROVIDE SLAB AND WALL CONTRACTION JOINTS, SPACING PER TYPICAL DETAIL.



**TYPICAL PIPE INVERT AND FOOTING RELATIONSHIP**  
N.T.S. T2384.01

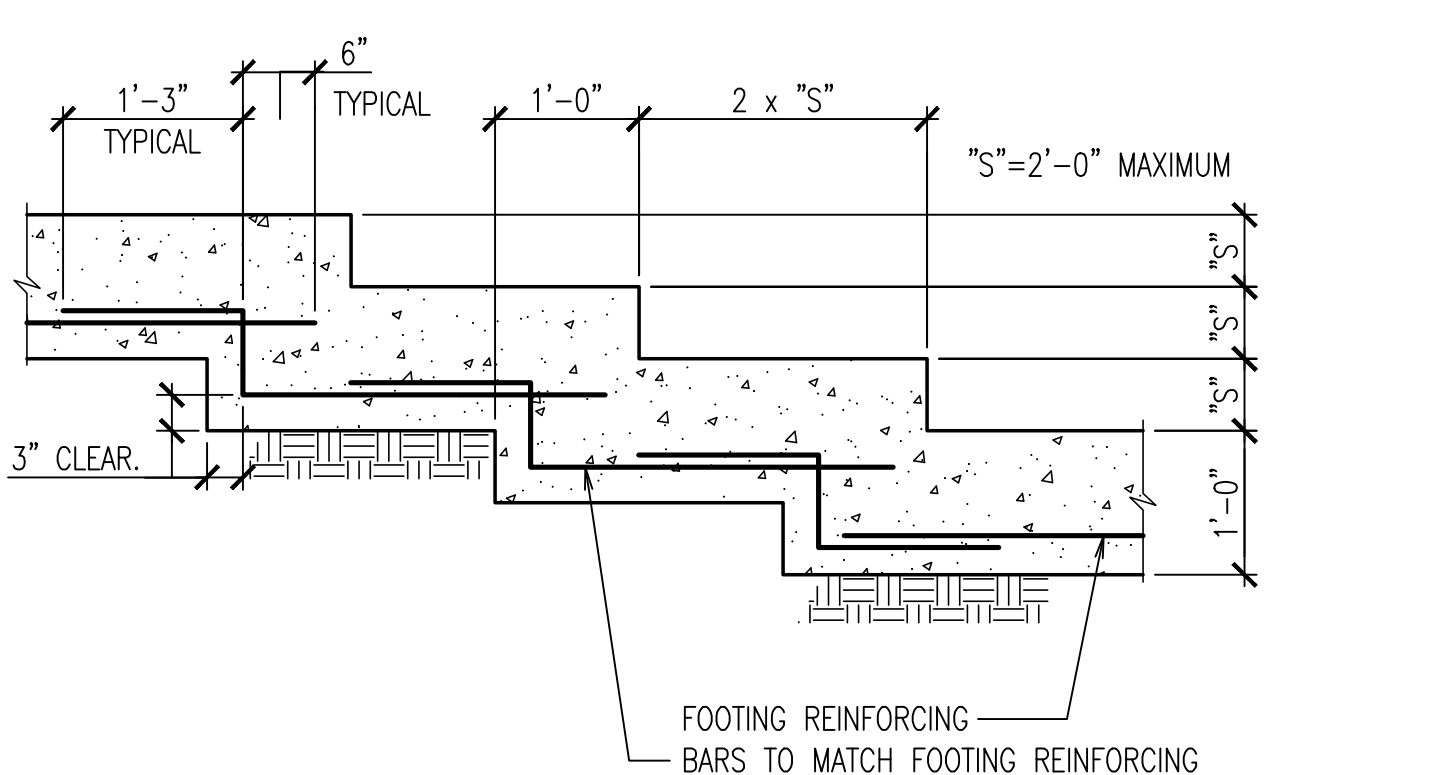


**TYPICAL CONTRACTION JOINT - SAW CUT** T3300.05

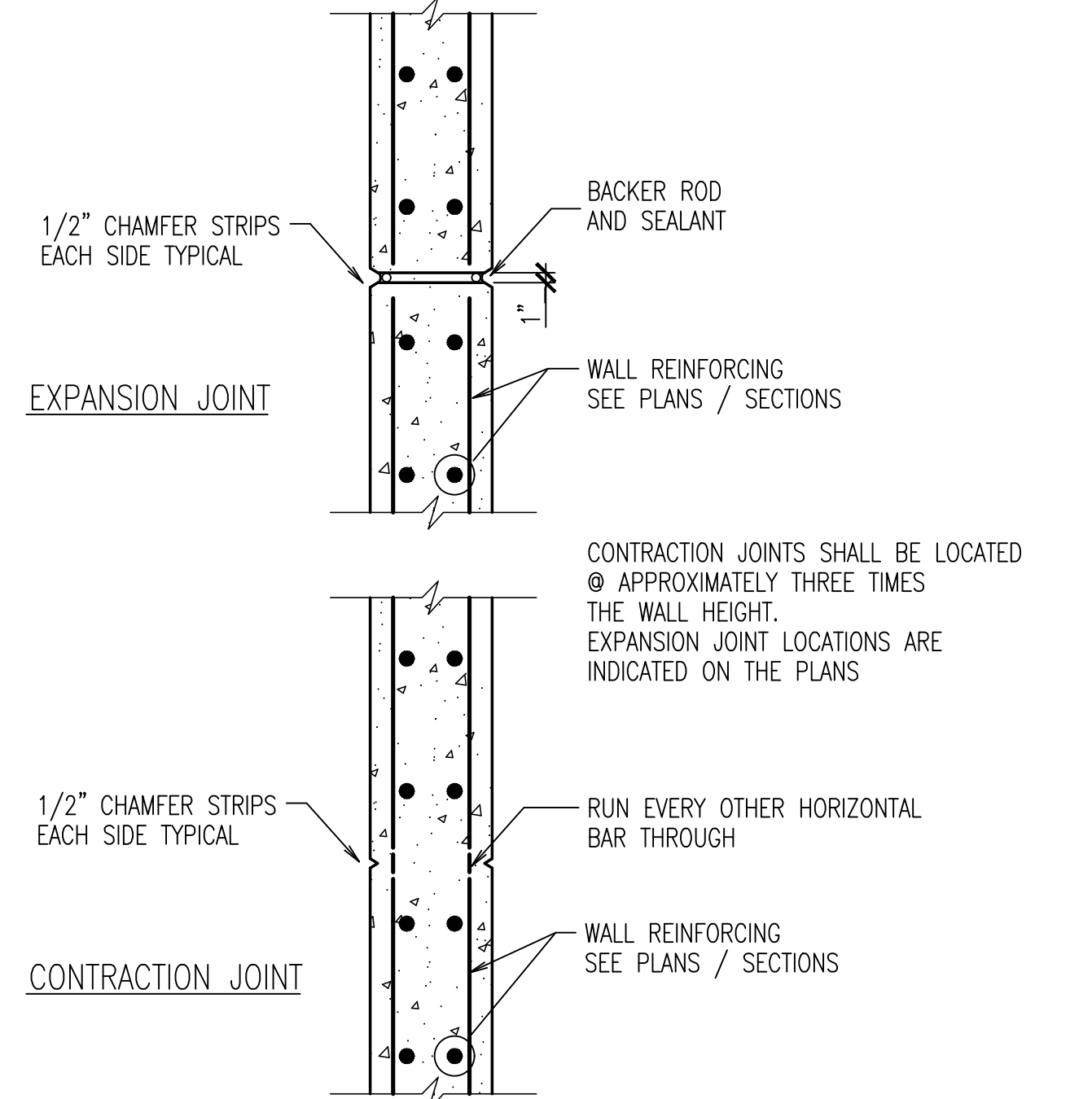


**TYPICAL REINFORCING AT WALL OPENING DETAIL**  
NOTES:  
1. HOOK ALL INTERRUPTED BARS.  
2. 1/2 REINF. BAR AREA INTERRUPTED BY OPENINGS SHALL BE PROVIDED EACH SIDE OF OPENING IN SAME FACE MIN 2#5 EACH SIDE EACH FACE.  
3. REINF. FOR CIRCULAR OPENINGS SIMILAR

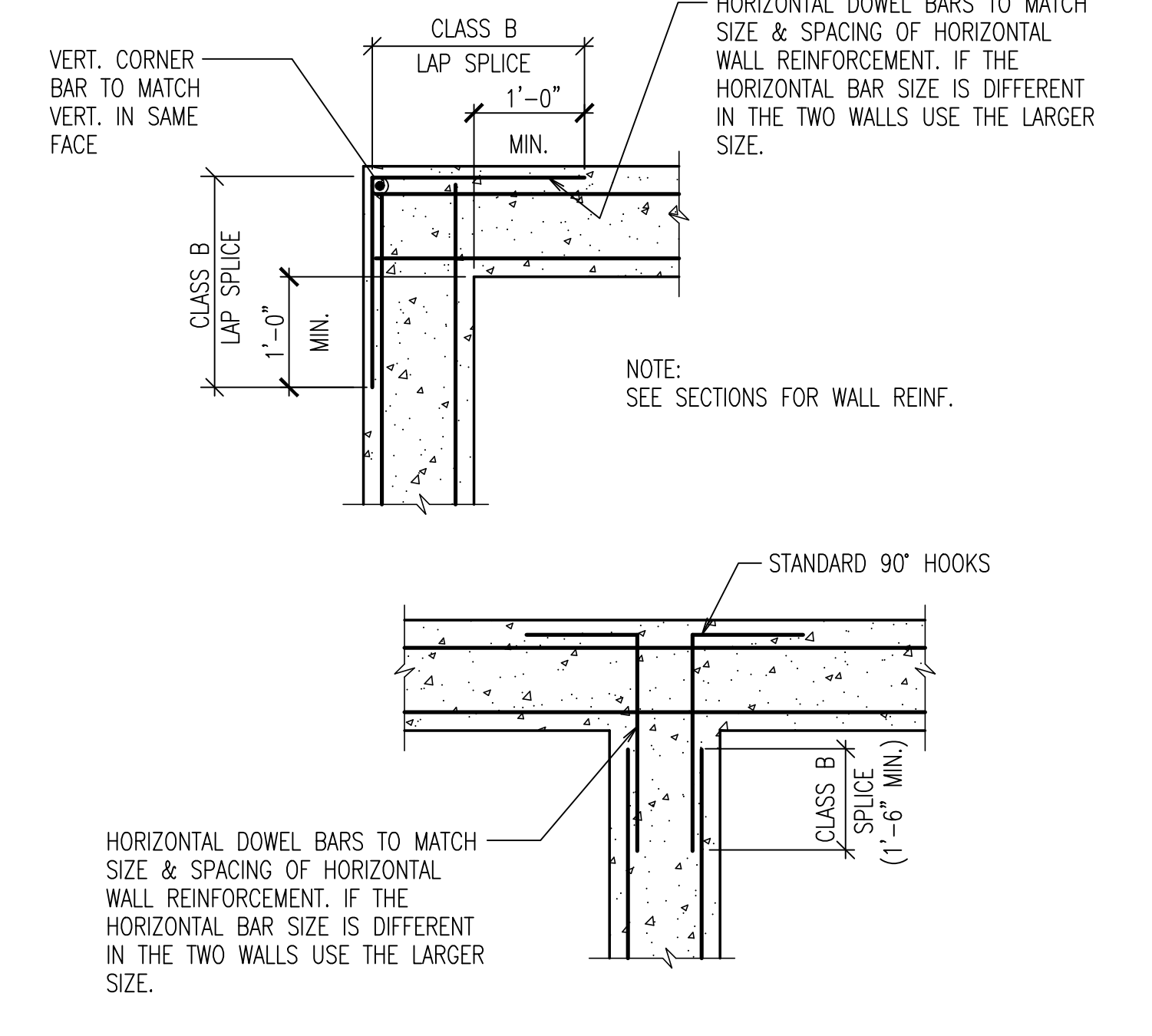
T3300.37



**TYPICAL STEPPED FOOTING** T3300.39



**TYPICAL CONCRETE WALL CONTRACTION JOINT AND WALL EXPANSION JOINT PLAN DETAILS** T3300.85



**TYPICAL REINFORCING DETAIL AT WALL INTERSECTION** T3300.91

NO.	DESCRIPTION	DATE
1	RESOLUTION APPROVAL	9/21/22

TAX MAP EWO1 WSSC 232RW13

27TH ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

HAMMER HILL, PARCEL P311

CLARKSBURG HIGHLANDS,  
PART OF BLOCK D

PROJ. MGR

DRAWN BY

SCALE AS SHOWN

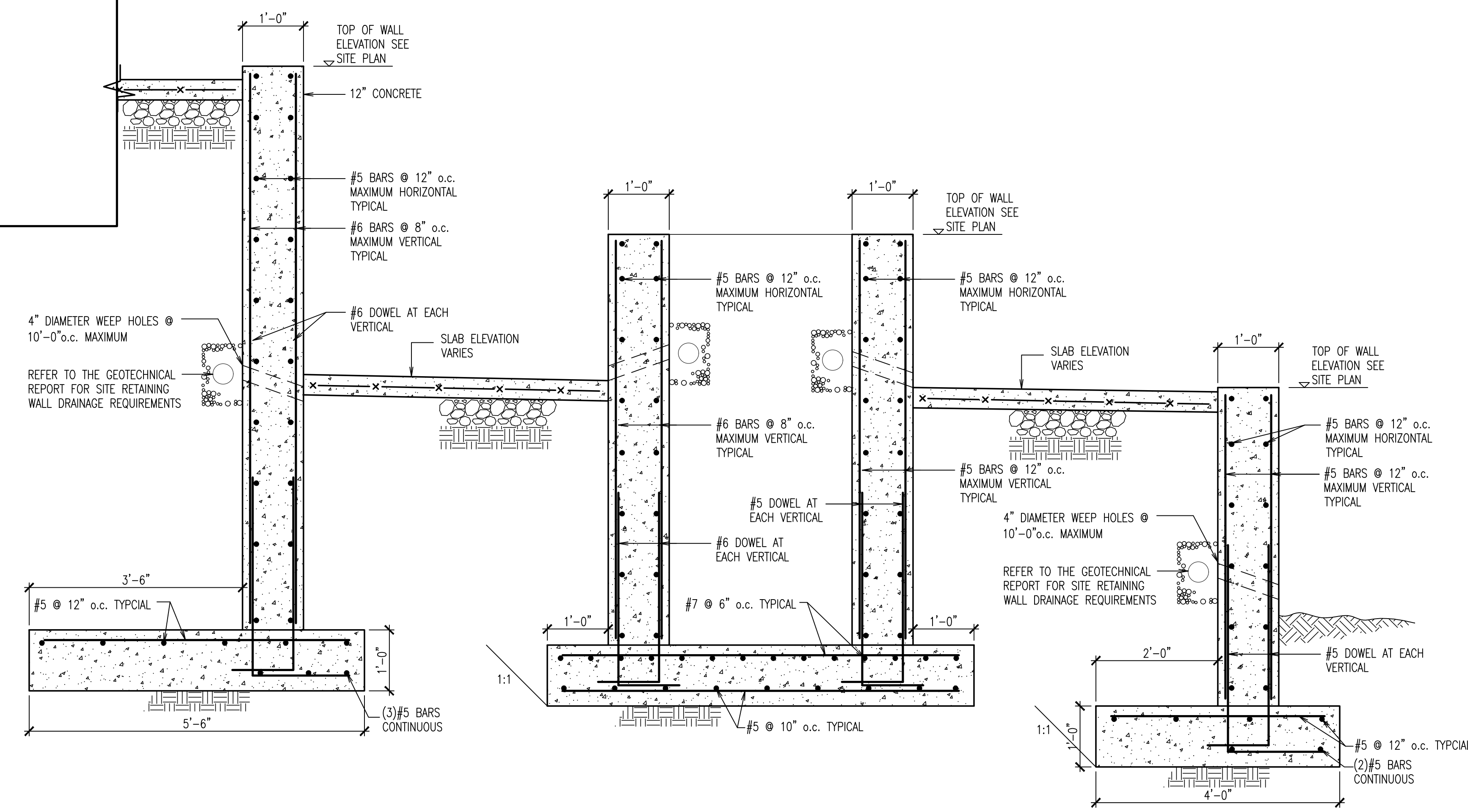
DATE 04.12.22

FOUNDATION PLAN,  
SECTIONS & NOTES

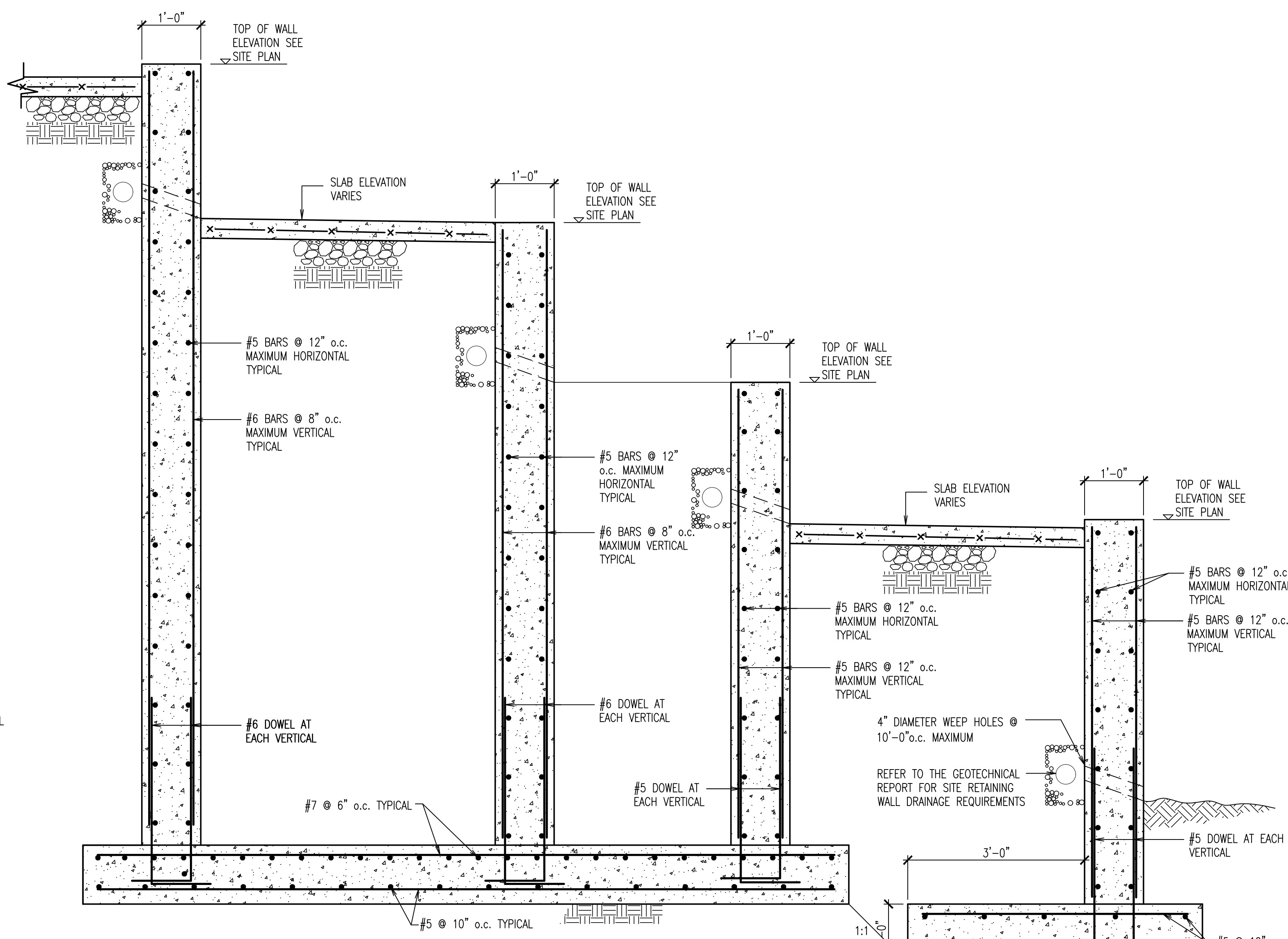
S1.02

PROJECT NO. 13.109.41

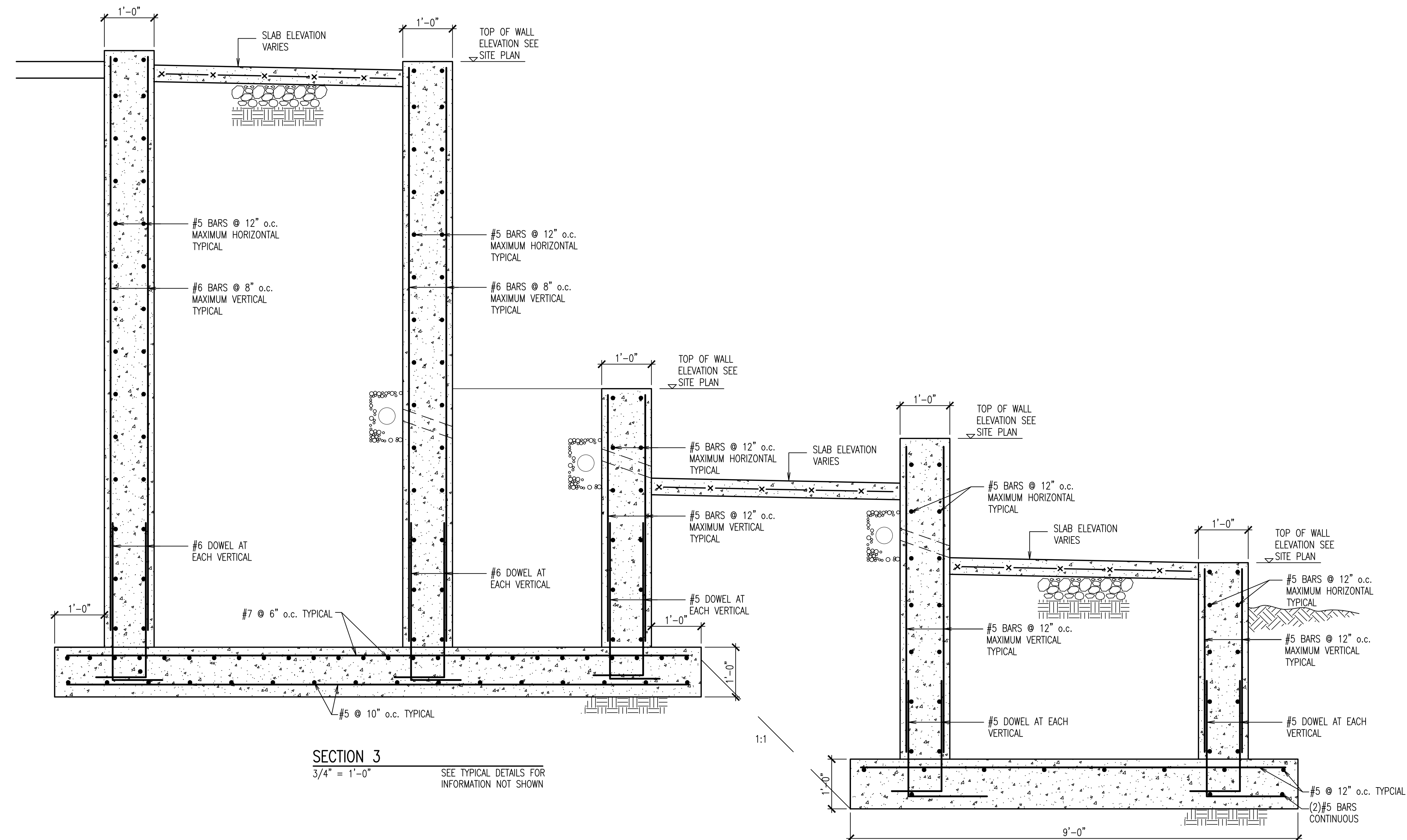
SHEET NO. 1 OF 1



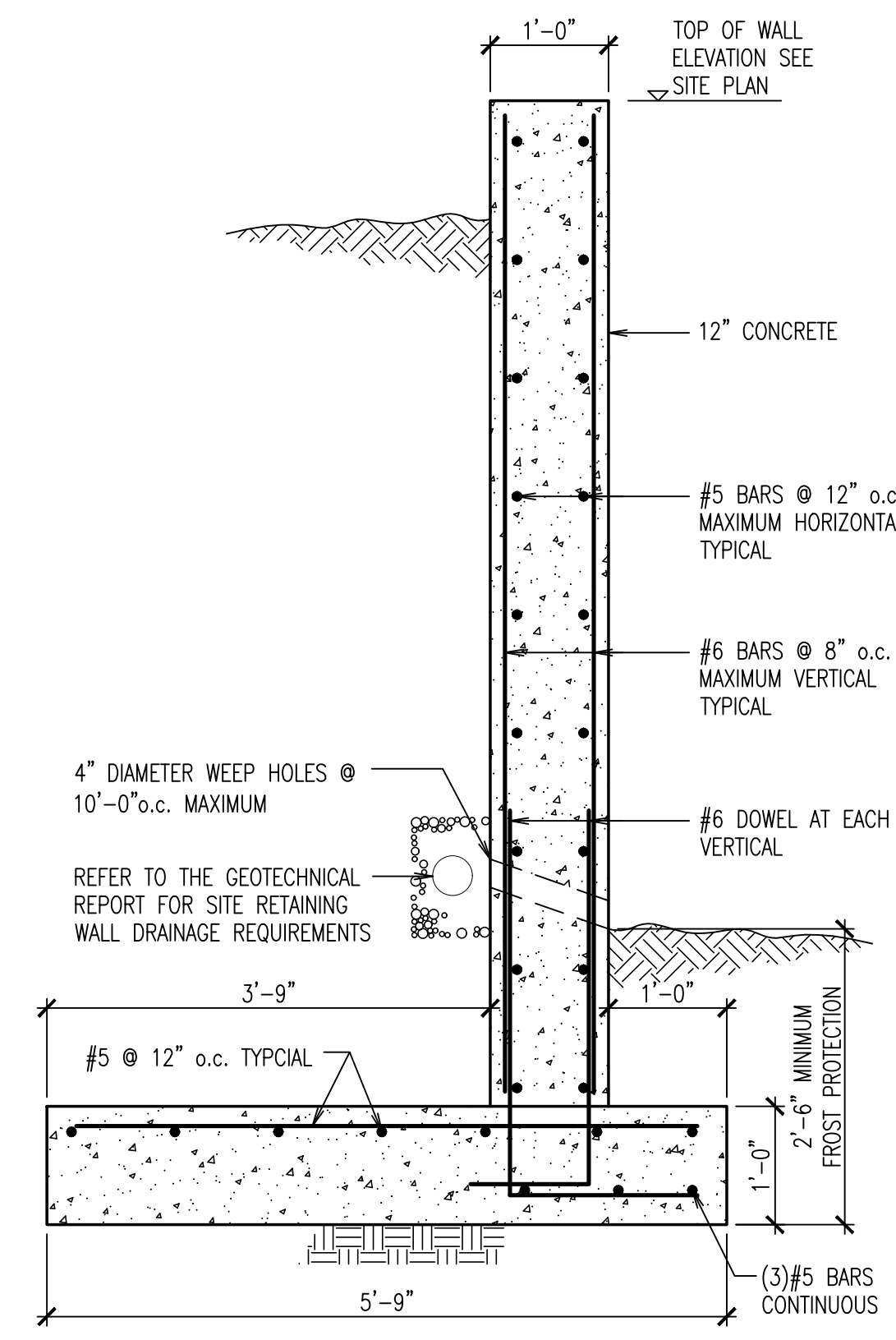
SECTION 1  
3/4" = 1'-0" SEE TYPICAL DETAILS FOR INFORMATION NOT SHOWN



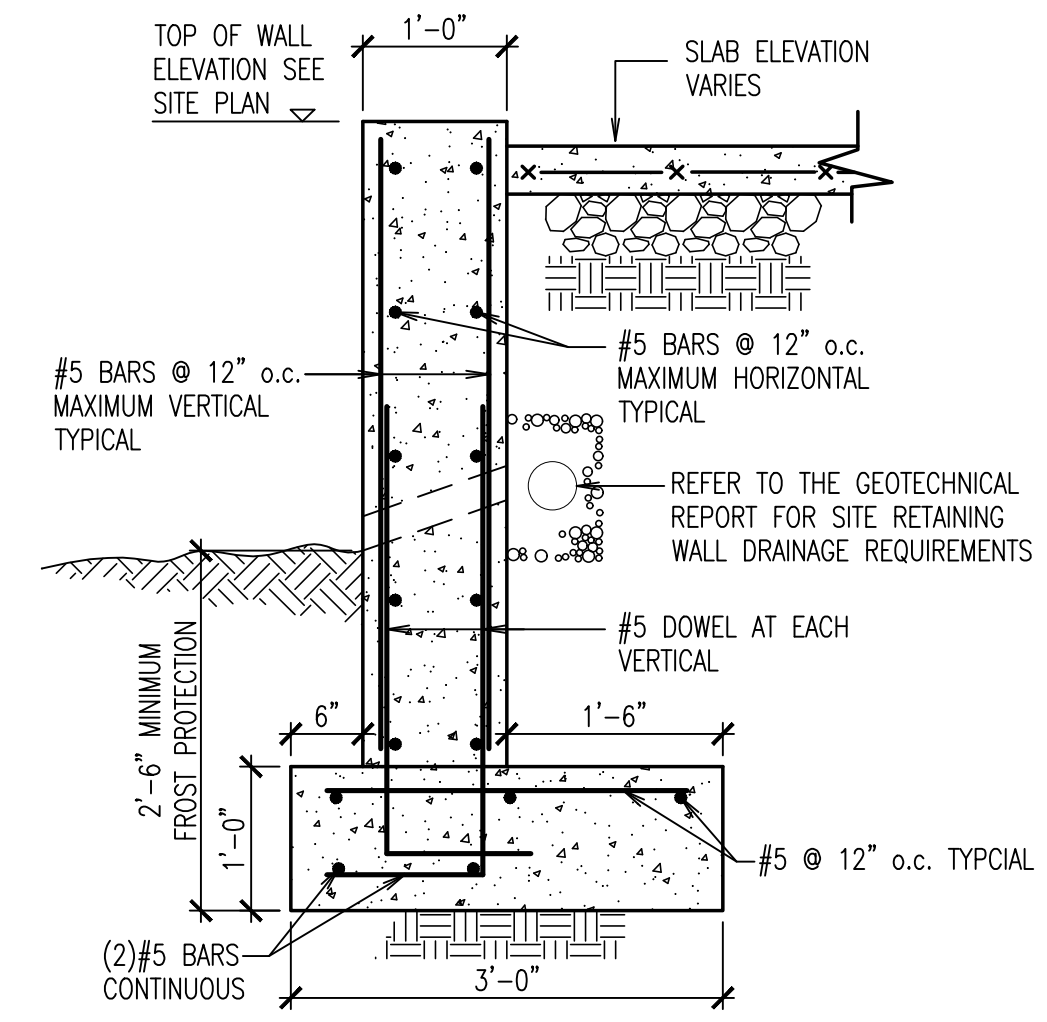
SECTION 2  
3/4" = 1'-0" SEE TYPICAL DETAILS FOR INFORMATION NOT SHOWN



SECTION 3  
3/4" = 1'-0" SEE TYPICAL DETAILS FOR INFORMATION NOT SHOWN



SECTION 4  
3/4" = 1'-0" SEE TYPICAL DETAILS FOR INFORMATION NOT SHOWN



SECTION 5  
3/4" = 1'-0" SEE TYPICAL DETAILS FOR INFORMATION NOT SHOWN

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No.: 32926, Expiration Date: 5/28/2024.

NO.	DESCRIPTION	DATE
1	RESOLUTION APPROVAL	02/12/22

TAX MAP EW01 WSSC 232RW13

27TH ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

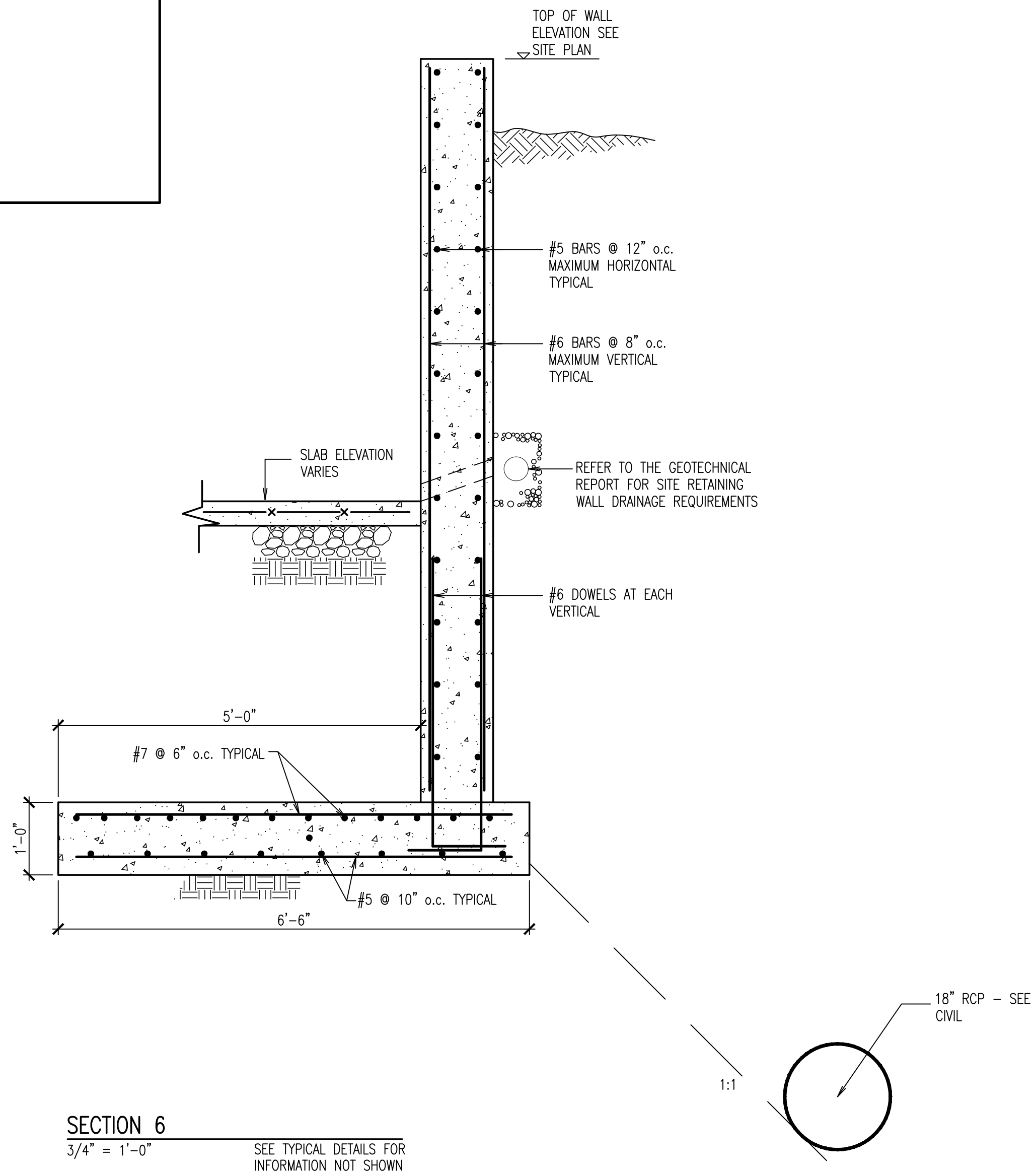
**HAMMER HILL, PARCEL P311**  
**CLARKSBURG HIGHLANDS,**  
**PART OF BLOCK D**

PROJ. MGR  
DRAWN BY  
SCALE AS SHOWN  
DATE 04.12.22

**FOUNDATION PLAN,**  
**SECTIONS & NOTES**

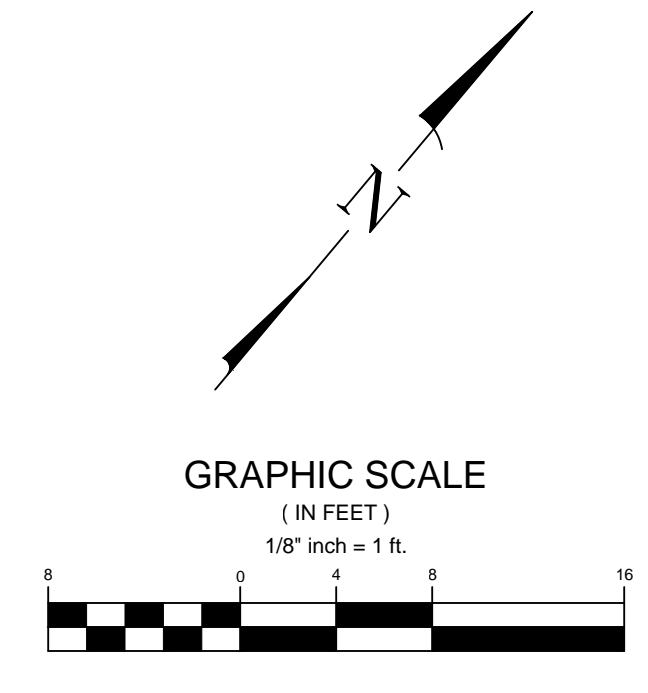
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PROJECT NO. 13.109.41  
SHEET NO. 1 OF 1



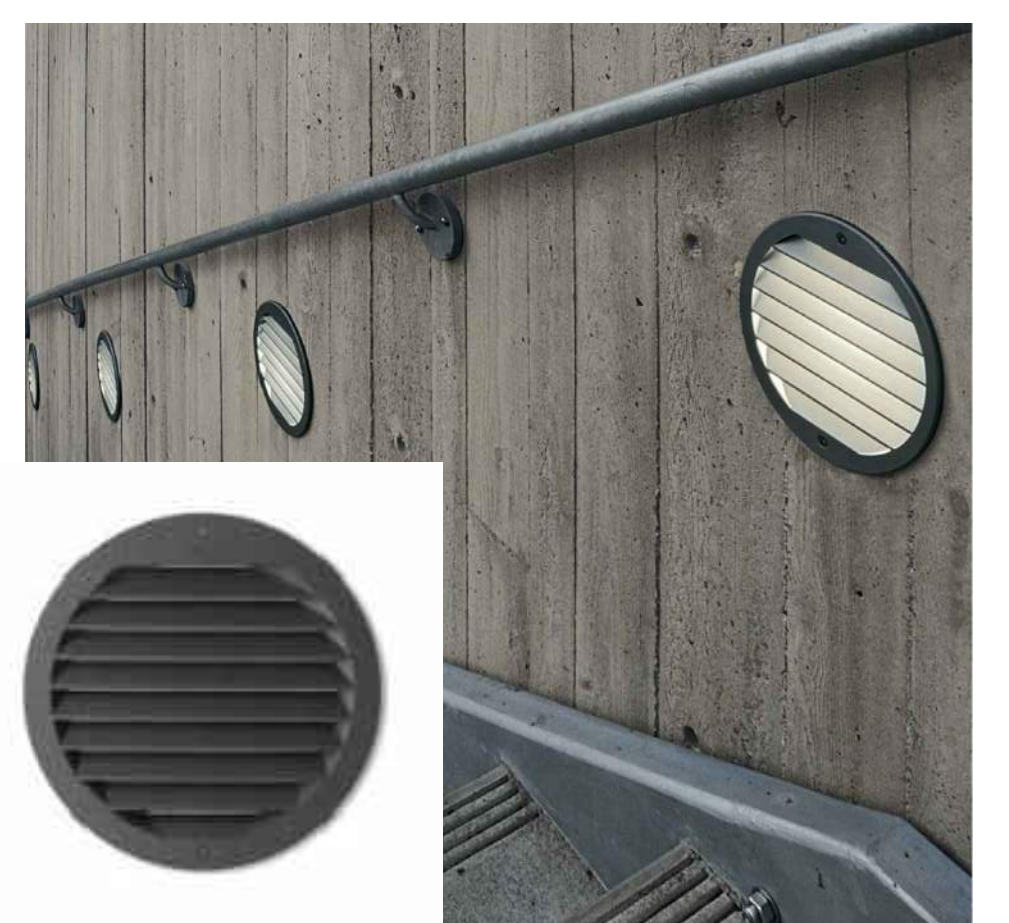
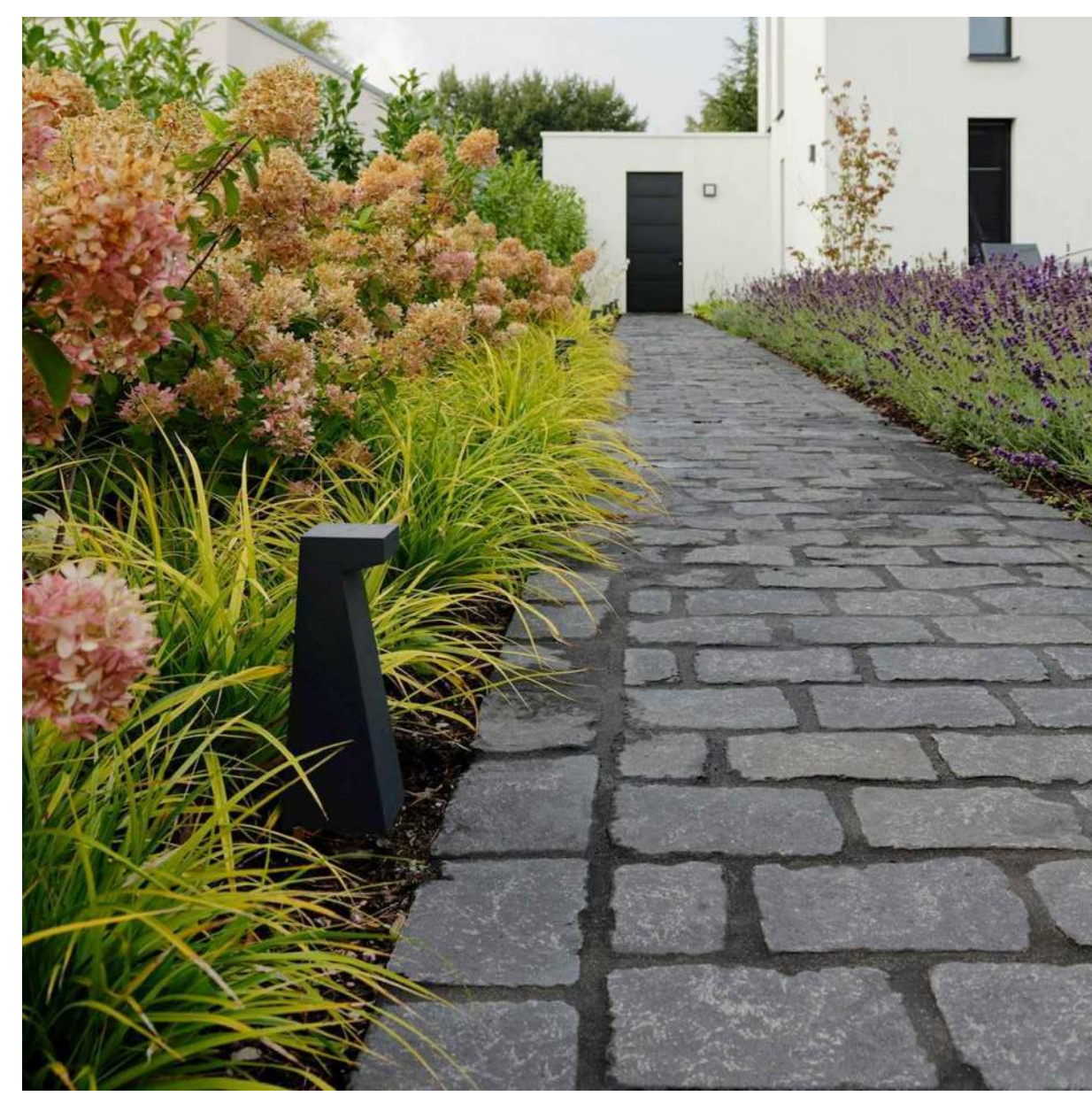
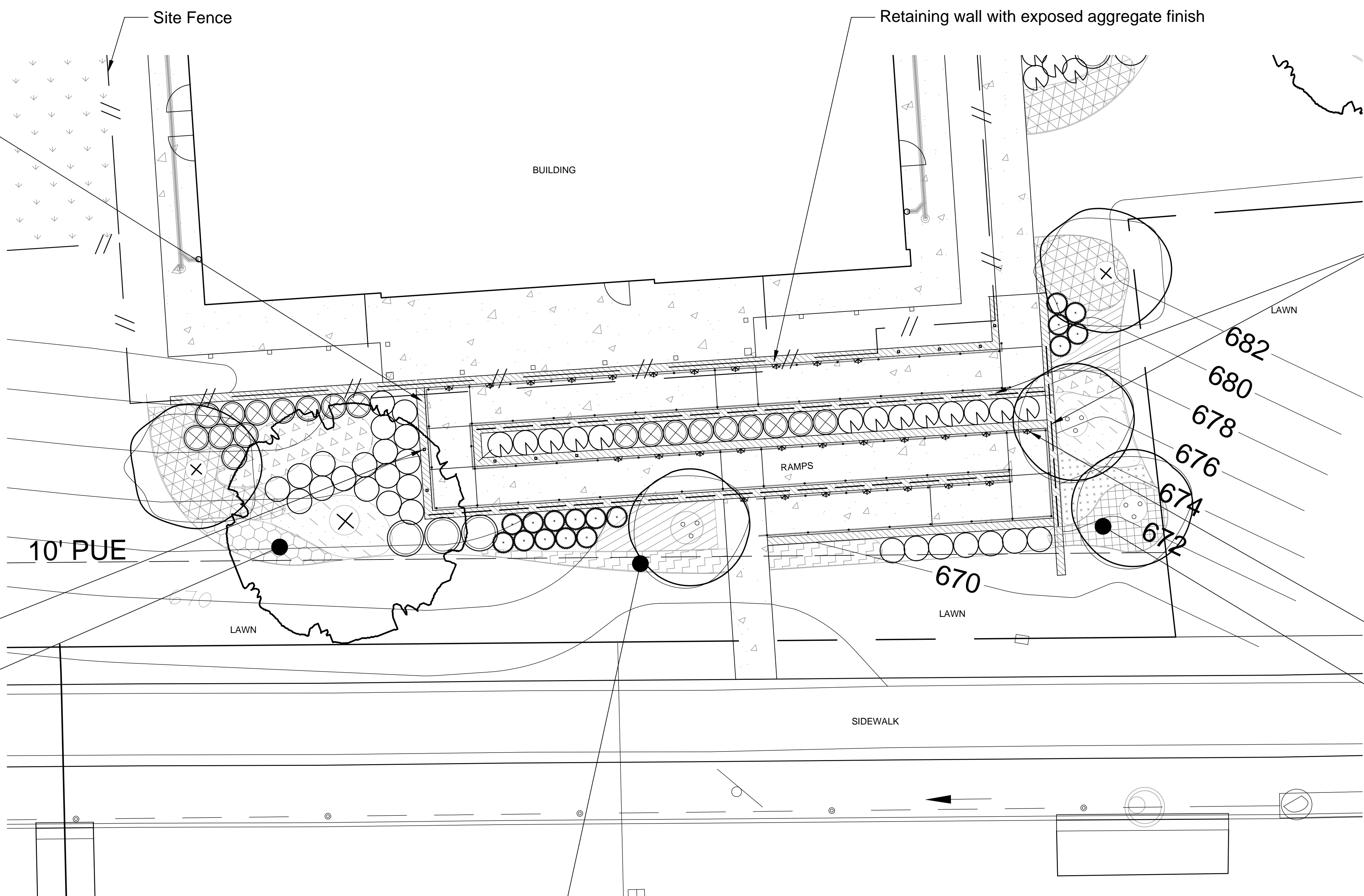
**SECTION 6**  
3/4" = 1'-0"  
SEE TYPICAL DETAILS FOR INFORMATION NOT SHOWN

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No.: 32926, Expiration Date: 5/28/2024.



**LEGEND**

- PROPOSED VARIANCE SHADE TREES
- PROPOSED STREET TREES
- PROPOSED ORNAMENTAL TREES
- PROPOSED DECIDUOUS & EVERGREEN SHRUBS
- HERBACEOUS PERENNIALS
- CONCRETE PAVEMENT
- FENCE PER ARCHITECTURAL PLAN
- GUARD RAIL
- HAND RAIL



**REVISIONS**

NO.	DESCRIPTION	DATE

TAX MAP EW31 WSSC 232M13

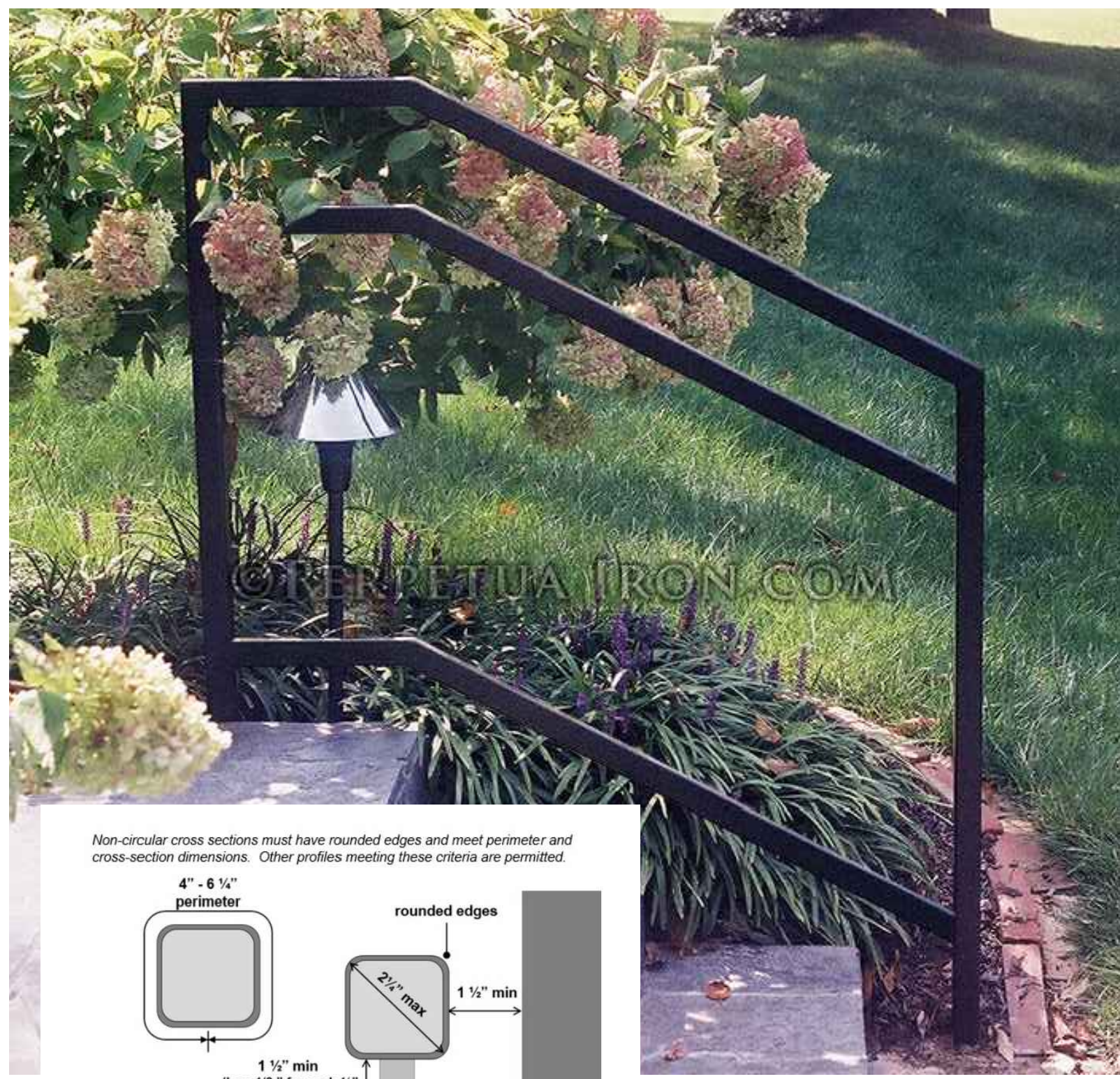
2TH ELECTION DISTRICT  
 MONTGOMERY COUNTY  
 MARYLAND

**PARCELS 311 & N366  
 HAMMER HILL**

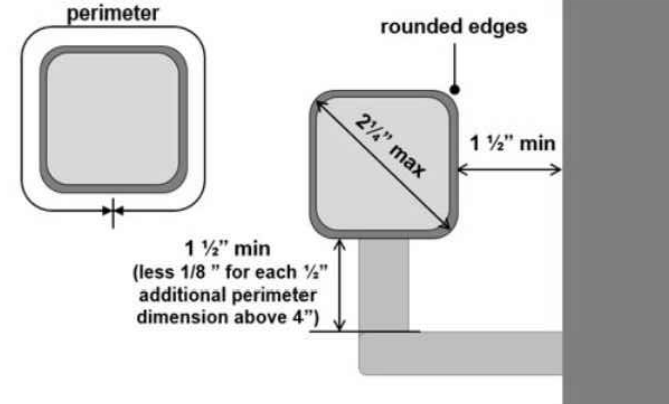
PROJ. MGR DCM  
 DRAWN BY CEB & PHR  
 SCALE 1/8" = 1' - 0"  
 DATE 10.24.2023

**HAMMER HILL DAYCARE  
 LANDSCAPE DESIGN ADA  
 RAMP PRECEDENT**

**L2.01**  
 PROJECT NO. 13.109.41  
 SHEET NO. 1 OF 2

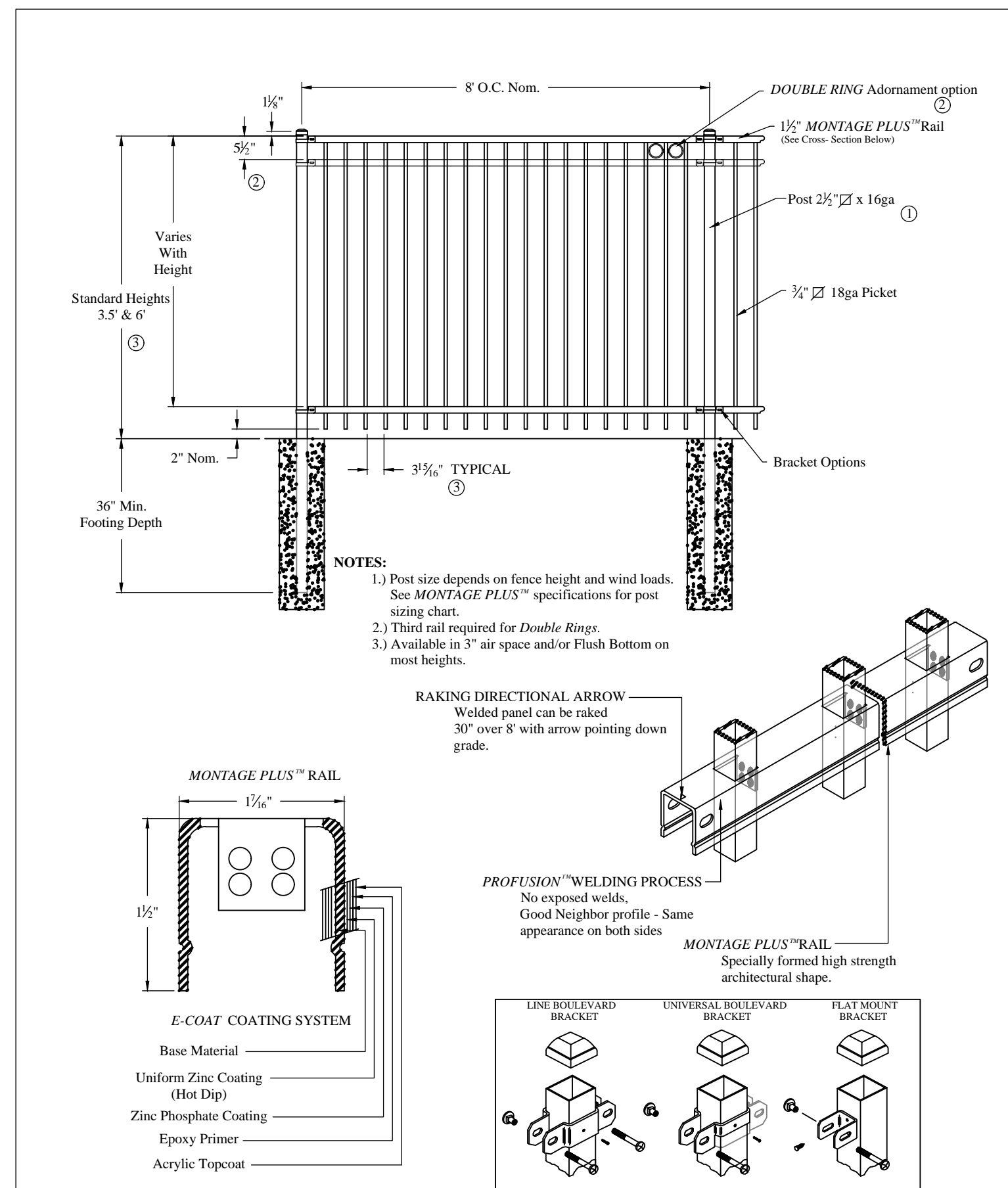


Non-circular cross sections must have rounded edges and meet perimeter and cross-section dimensions. Other profiles meeting these criteria are permitted.



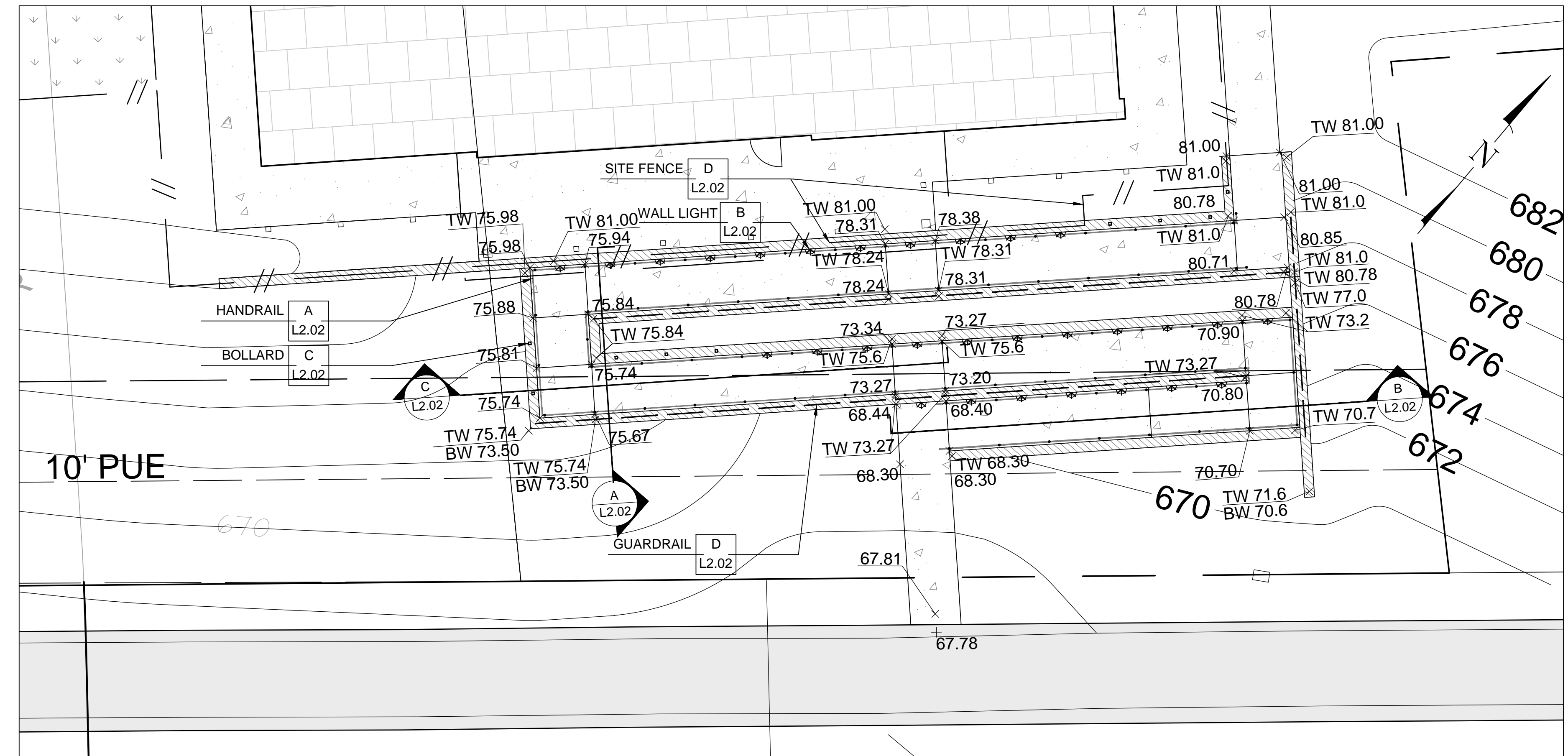
MANUFACTURER: PERPETUA IRON LLC  
WEBSITE: PERPETUAIRON.COM  
PRODUCT NAME: 1 1/2" SQUARE TUBULAR RAILING, ROUNDED EDGES (ALTERED RAILING 146.1)  
COLOR/MATERIAL: BLACK POWDERCOAT FINISH  
QUANTITY: 376 L.F.  
NOTES: ALL HANDRAILS MUST MEET ADA REQUIREMENTS.

**A** HANDRAIL  
NOT TO SCALE

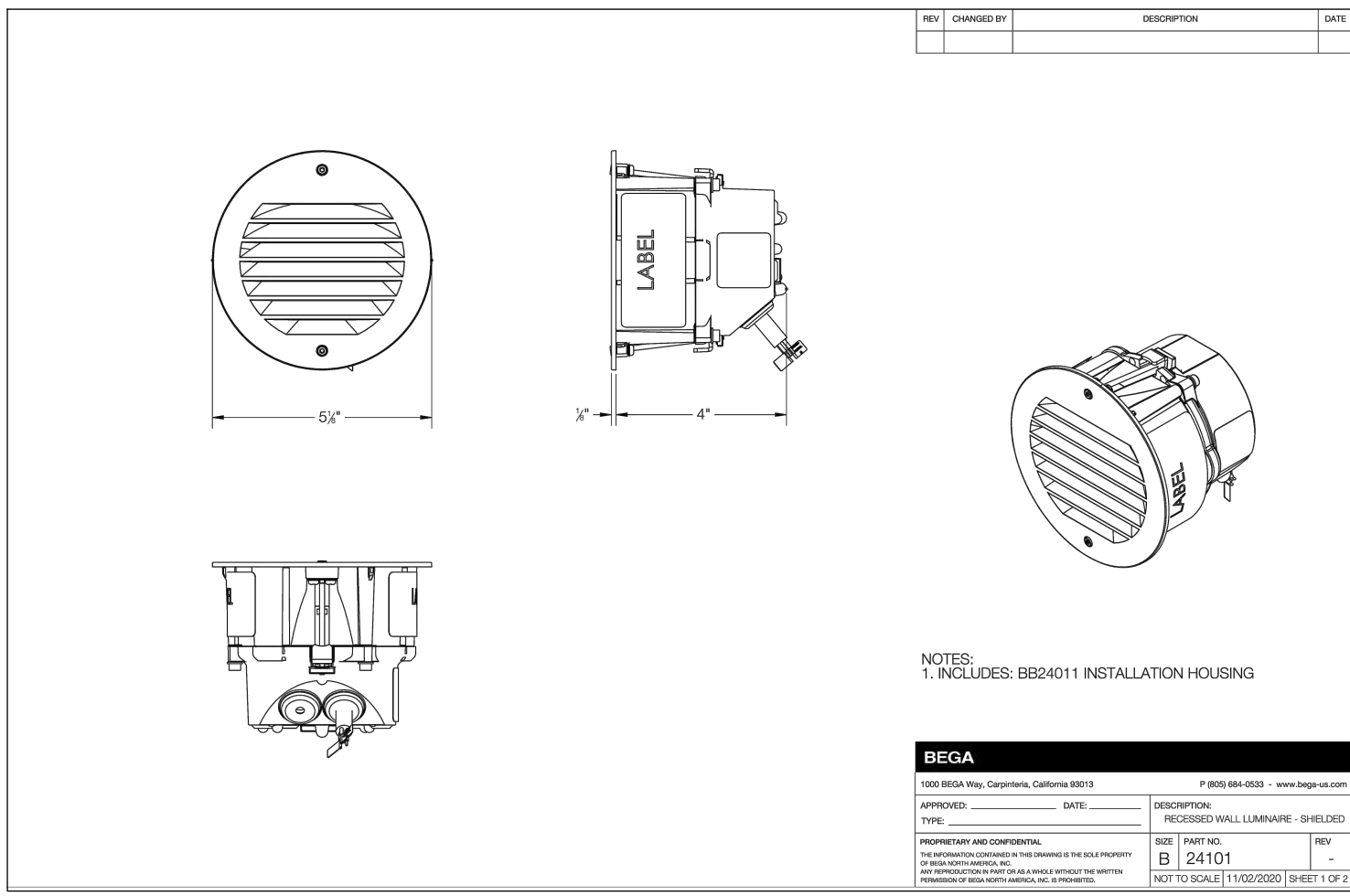
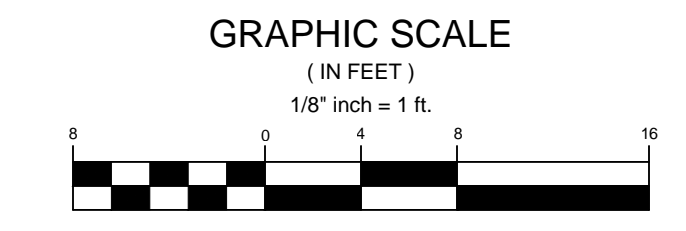


MANUFACTURER: AMERISTAR  
WEBSITE: AMERISTARPERIMETER.COM  
PRODUCT NAME: MONTAGE PLUS MAJESTIC STYLE, 3.5' HEIGHT GUARDRAIL & 6' SITE FENCE  
COLOR/MATERIAL: BLACK FINISH STEEL  
QUANTITY: 163 L.F. GUARDRAIL, SITE FENCE 915 L.F.  
NOTES: INSTALL PER MANUFACTURER'S INSTRUCTIONS.

**D** RAMP GUARDRAIL & SITE FENCE  
NOT TO SCALE

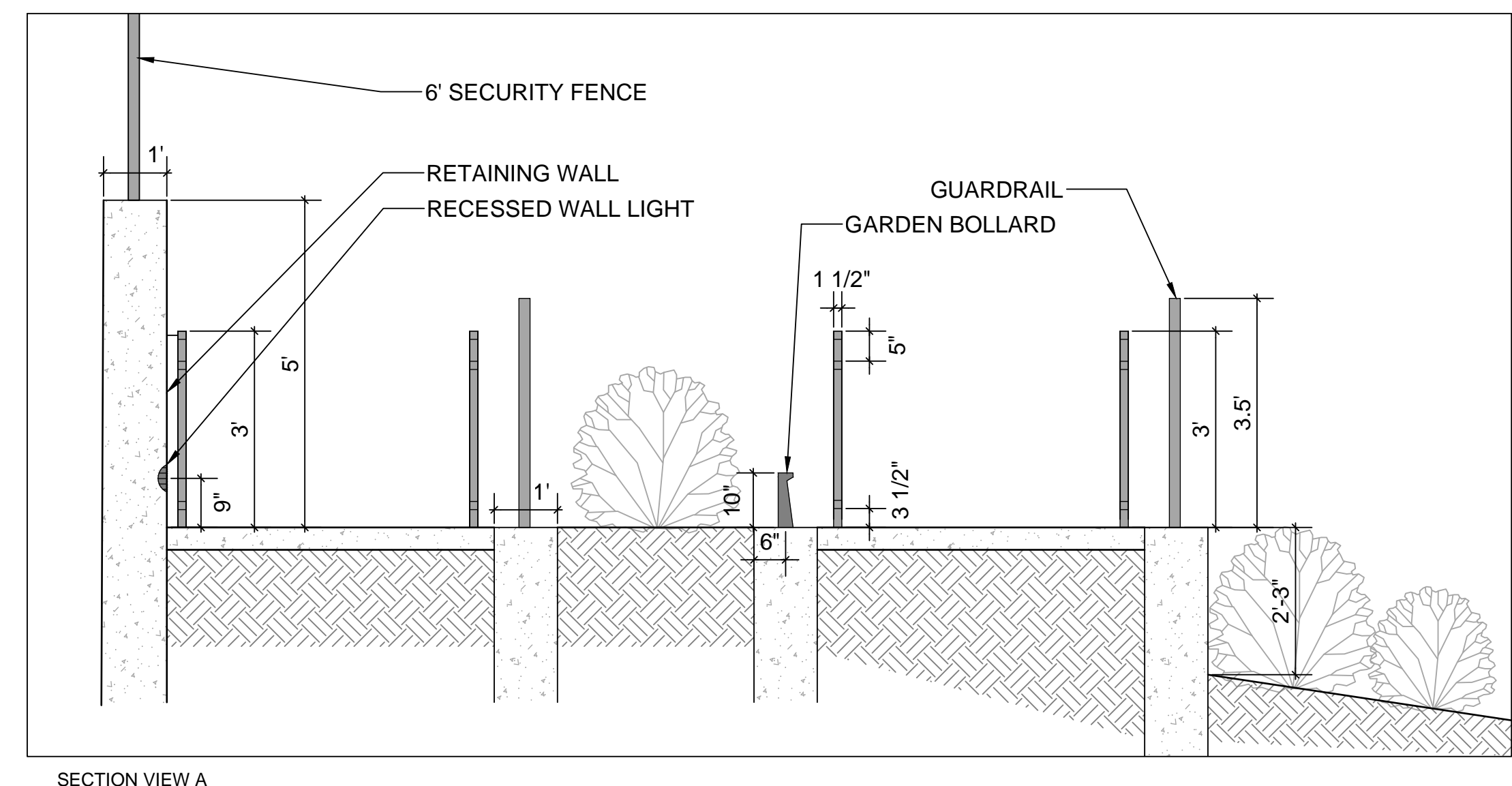


PLAN VIEW - ADA RAMP  
SCALE: 1/4" = 1'



MANUFACTURER: BEGA  
WEBSITE: BEGA-US.COM  
PRODUCT NAME: 24101, RECESSED WALL LIGHT  
COLOR/MATERIAL: BLACK FINISH  
QUANTITY: 29  
NOTES: INSTALL AT 9\"/>

**B** WALL LIGHT  
NOT TO SCALE



SECTION VIEW A  
SCALE: 1" = 2'

**Garden bollard**  
Home & Garden

A series of LED pathway luminaires with shielded wide-beam light distribution for use in the private sector. These luminaires are ideally suited for garden, entryways, and for many applications on paths and terraces. Anchorage units are available for direct burial in concrete or soil, or with a hardscape base for installation on foundations or paved surfaces. Low voltage magnetic transformer required for operation.

2700K (K27), 3000K (K3), 3500K (K3S), 4000K (K4)

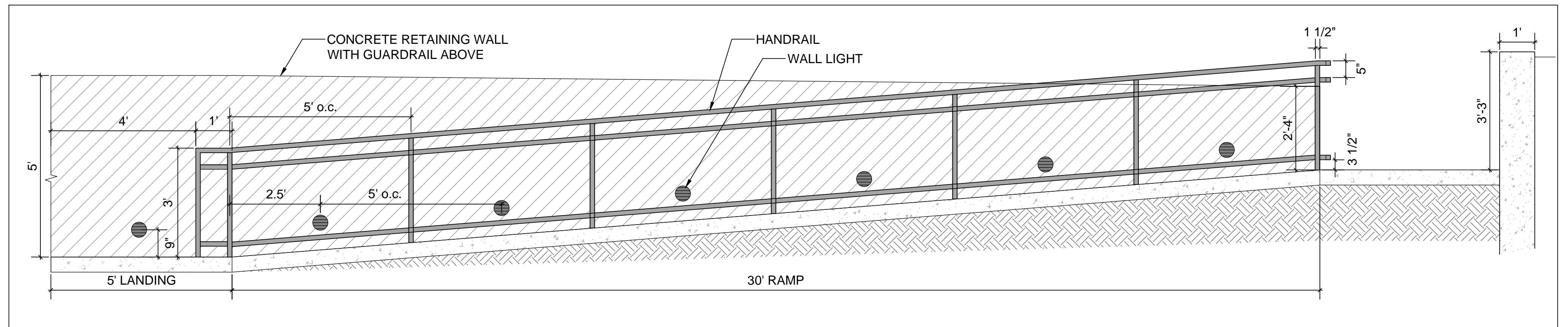
All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid paint.

NRTL listed to North American Standards, suitable for wet locations

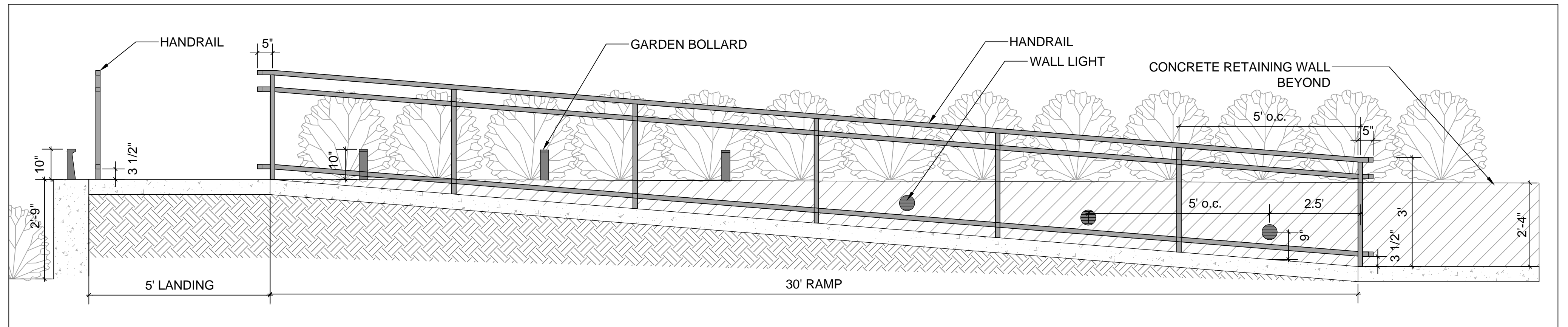
IP 65

MANUFACTURER: BEGA  
WEBSITE: BEGA-US.COM  
PRODUCT NAME: 77277, GARDEN BOLLARD  
COLOR/MATERIAL: BLACK FINISH  
QUANTITY: 9  
NOTES: INSTALL WITH HARDSCAPE BASE, 5\"/>

**C** GARDEN BOLLARD  
NOT TO SCALE



SECTION VIEW B  
SCALE: 1" = 2'



SECTION VIEW C  
SCALE: 1" = 2'

REVISIONS

NO.	DESCRIPTION	DATE

TAX MAP EW31 WSSC 232RW13

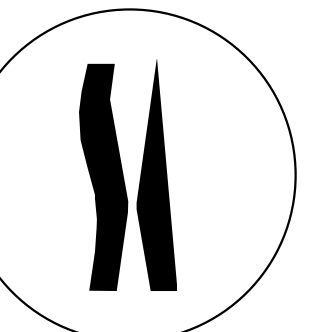
2TH ELECTION DISTRICT  
MONTGOMERY COUNTY  
MARYLAND

PARCELS 311 & N366  
HAMMER HILL

PROJ. MGR DCM  
DRAWN BY CEB & PHR  
SCALE AS SHOWN  
DATE 10.24.2023

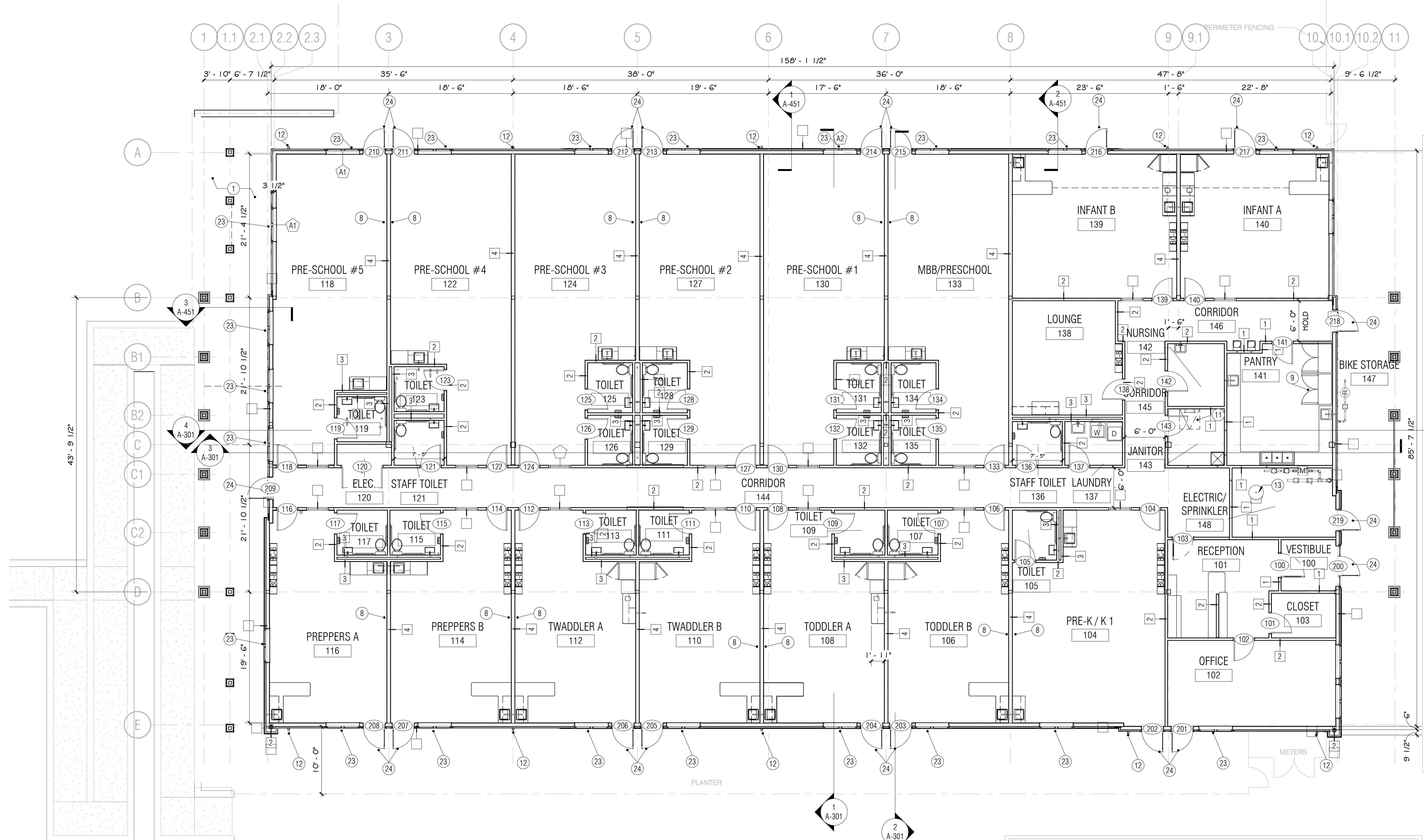
HAMMER HILL DAYCARE  
LANDSCAPE DESIGN ADA  
RAMP CONSTRUCTION  
DETAILS

L2.02  
PROJECT NO. 13.109.41  
SHEET NO. 2 OF 2



SKA STUDIO

47 Randall St.  
Suite 2  
Annapolis, MD 21401  
skastudio.com  
301 858 5853



**1 FIRST FLOOR**  
SCALE: 1/8" = 1'-0"

ISSUE RECORD	DATE
1 HAWP APPLICATION SUBMISSION	11/29/23

PROJECT

**HAMMER HILL DAYCARE CENTER**

23312 FREDERICK RD  
CLARKSBURG, MD 20871  
PROJECT # 10272

DRAWING INFORMATION

STAMP

SHEET

FLOOR PLAN

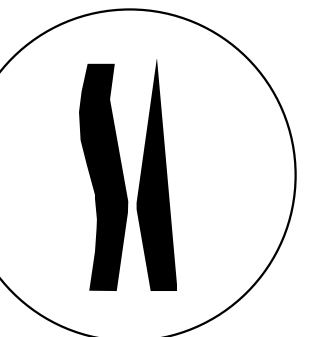
**A-101**

- GENERAL NOTES**
- REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL INFORMATION.
  - TILE LOGO ARTWORK PROVIDED BY TILE CONTACT TILE.
  - ALL ANGLED PARTITIONS, IF SHOWN ON FLOOR PLAN, SHALL BE 45° UNLESS NOTED OTHERWISE.
  - ALL OUTSIDE CORNERS WITHIN ALL ROOMS SHALL HAVE 3/4" RADIUS PVC CORNER BEADS AT ALL CORNERS, GYPSUM BOARD WINDOW RETURNS AND COLUMNS - SEE DETAILS 2 & 3/A-091
  - FOR PARTITION DESIGNATIONS REFER TO DRAWING A-012 AND DRAWING A-091 FOR PARTITION TYPE DETAILS.
  - MAKE BELIEVE BLVD. VINYL GRAPHICS TO BE PROVIDED WM PRINTING (REQUIRED). DEVELOPER/GC TO COORDINATE VINYL GRAPHIC DETAILS WITH TILE CONSTRUCTION MANAGER. MBB GRAPHICS ARE PART OF A TILE BRANDED GRAPHICS PACKAGE, WHICH INCLUDES GRAPHICS IN MBB, RECEPTION, CLASSROOMS, LOUNGE & HALLWAYS, ALL OF WHICH ARE THE RESPONSIBILITY OF THE DEVELOPER.
  - REFER TO DRAWING A-111 FOR ENLARGED TOILET ROOM PLANS AND DRINKING FOUNTAIN DETAILS. REFER TO DRAWING 100 FOR SPECIFICATIONS.
  - THE FURNITURE AND MILLWORK PLAN WILL BE PROVIDED SEPARATELY FROM THE PERMIT DRAWING SET.
  - ALL MILLWORK ELEVATIONS & DETAILS - SEE DRAWINGS A-131, A-132, A-133, A-134, AND A-135.
  - FOR PANTRY SEE DRAWINGS A-134
  - FOR RECEPTION AREA ENLARGED PLANS - SEE DRAWING A-135
  - OUTSIDE PLAYGROUND PLANS AND DETAILS - SEE DRAWINGS A-151 AND A-152
  - REFER TO DRAWING T-200 FOR LIST OF REQUIRED AND APPROVED VENDORS.
  - REFER TO SPECIFICATION DRAWINGS FOR INSTALLATION INFORMATION.
  - REFER TO SPECIFICATION DRAWINGS FOR ALL APPLIANCE, LOW VOLTAGE COMPONENT, AND PLAYGROUND EQUIPMENT SPECIFICATIONS.
  - DRYWALL CONTROL JOINTS TO BE FAS-093X BY CLARK DIETRICH (OR APPROVED EQUAL) AND SHALL BE ALIGNED WITH DOOR OR WINDOW JAMB (LEFT OR RIGHT) AT MAXIMUM INTERVALS OF 30'-0". ALSO REFER TO DETAIL 2 ON DRAWING A-042.
  - THE ENTIRE BUILDING SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF CONSTRUCTION.
  - PROVIDE EMERGENCY LOCKDOWN DEVICE AS SPECIFIED ON SHEET A-122 AND T-201
  - SECURITY ALARM CONTACTS TO BE INSTALLED AT ALL EXTERIOR DOORS.
  - GENERAL CONTRACTOR TO REFER MILLWORK DRAWINGS AND TO CROSS REFERENCE WITH PLUMBING, ELECTRICAL AND STRUCTURAL.
  - FIRE EXTINGUISHERS NOT TO BE PLACED ON RECEPTION WALL DUE TO WALL GRAPHICS. VINYL GRAPHICS TO BE PROVIDED BY FAST SIGNS (REQUIRED)

- PLAN SHEET NOTES**
- CONCRETE SIDEWALK - REFER TO APPROVED SITE PLANS FOR FINISHES AND DETAILS. ENSURE SIDEWALKS ARE CLEAR OF OBSTRUCTIONS. PROVIDE FENCING AROUND ANY POTENTIAL SAFETY HAZARDS TO PREVENT ACCESS BY CHILDREN
  - PROVIDE CONCRETE PAD AND CANVAS AWNING. PROVIDE PICNIC TABLES AS SHOWN. REFER TO DRAWINGS A-151 & A-152 FOR ADDITIONAL INFORMATION
  - 4 FT. TALL SOLID VINYL PRIVACY FENCE AND GATE. SEE DRAWING A-151 FOR MORE INFORMATION
  - 6 FT. TALL SOLID VINYL PRIVACY FENCE AND GATE. SEE DRAWING A-151 FOR MORE INFORMATION
  - PITCOON 6" RADIUS SO-LRT OUTSIDE CORNER WITH TANGENT FINIS BY SOFTFORMS. REFER TO DETAIL 4 ON DRAWING A-091
  - 55" TV TO BE MOUNTED VERTICALLY AT 60" AFF TO C.L. (39" AFF TO BOTTOM, 88" AFF TO TOP) WITH FLUSH-MOUNT, NON-TILT BRACKET APPROVED FOR MOUNTING IN VERTICAL ORIENTATION. PROVIDE (1) DUPLEX RECEPTACLE AND (1) DATA RECEPTACLE AT 72" AFF TO C.L. PROVIDE 2x10 BLOCKING (32" WIDE) BEHIND TV, FLUSH WITH BOTTOM OF OUTLET, AND CENTERED ON OUTLET. REFER TO DRAWING SPECIFICATIONS FOR FURTHER INFORMATION.
  - PROVIDE DVR SHELF AND (2) MONITORS, TO BE MOUNTED ON (2) WALL-MOUNTED BRACKETS WITH 2x10" BLOCKING (32" WIDE) FLUSH WITH BOTTOM OF OUTLET AND CENTERED ON OUTLET. REFER TO DETAILS 1 & 2 ON DRAWING A-134. DVR SHOULD HAVE NO HARD DRIVE AND CANNOT RECORD
  - SMART BOARD PROVIDED BY FRANCHISEE AND TO BE INSTALLED BY OTHERS - REFER TO DETAILS ON DRAWING A-082
  - G.C. TO PROVIDE AND INSTALL (1) WIRE SHELF 16" DEEP MOUNTED AT 6'-0" A.F.F.; FASTENED DIRECTLY TO STUDS. PROVIDE 2x10 BLOCKING. REFER TO DETAIL 7 ON SHEET A-131.  
LAUNDRY: WALL TO WALL SHELF, ABOVE WASHER/DRYER  
JAN. CL.: 3'-0" WIDE, ABOVE UTILITY SINK
  - PROVIDE (5) 16" DEEP WIRE SHELVES IN THE CLOSET. WALL TO WALL. FIRST SHELF AT 20" A.F.F., THEN 34", 48", 62", & 76" A.F.F. (5 SHELVES TOTAL). PROVIDE 2x10" BLOCKING. REFER TO DETAIL 7 ON DRAWING A-131.
  - 36"x36" ROOF ACCESS HATCH AND LADDER SHALL BE KEPT CLEAR OF ALL DUCTS, WIRE, CONDUITS, OR OTHER FIXED ITEMS. SEE DETAILS ON DRAWING A-032
  - GUTTER DOWNSPOUT TO GRADE. CONNECT TO UNDERGROUND STORM SYSTEM. (TYP.) REFER TO DRAWING A-031, A-032 AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
  - WATER HEATER. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
  - INSTALL 1/2" THICK (MIN.), 2 1/2" TALL PRIMED WOOD CHAIR RAIL (EXAMPLE: DYKES LUMBER PROFILE #552) AT 36" A.F.F. OVER CARPETED SECTION OF ROOM IN INFANT ROOM(S) ONLY. PAINTED "W" PER DRAWING A-042. REFER TO TYPICAL MECHANICAL ROOM LAYOUT ON DRAWING E-201.
  - BLOCKING FOR STANDING SEAM METAL AWNING. REFER TO STRUCTURAL DWGS
  - STAFF LOCKERS. REFER TO DETAIL 1 ON A-131.
  - KEY FOB. REFER TO ELECTRICAL DRAWINGS.
  - CALL BOX. REFER TO ELECTRICAL DRAWINGS.
  - BURGLAR ALARM KEYPAD. REFER TO ELECTRICAL DRAWINGS.
  - FIRE ALARM CONTROL PANEL. REFER TO ELECTRICAL DRAWINGS.
  - DOOR RELEASE BUTTONS BY SECURITY VENDOR. REFER TO A-134 FOR DETAILS.
  - PROVIDE OPAQUE FILM ON INTERIOR FACE OF GLASS 3M NIGHT VISION 15 OR APPROVED EQUAL. REFER TO DETAIL 4/A-082
  - SECURITY ALARM CONTRACTS TO BE INSTALLED AT ALL EXTERIOR CLASSROOM DOOR & PLAYGROUND GATES. REFER TO ELECTRICAL AS WELL FOR MORE DETAILS
  - DF-2 (REFER TO SPEC ON PLUMBING SHEETS)

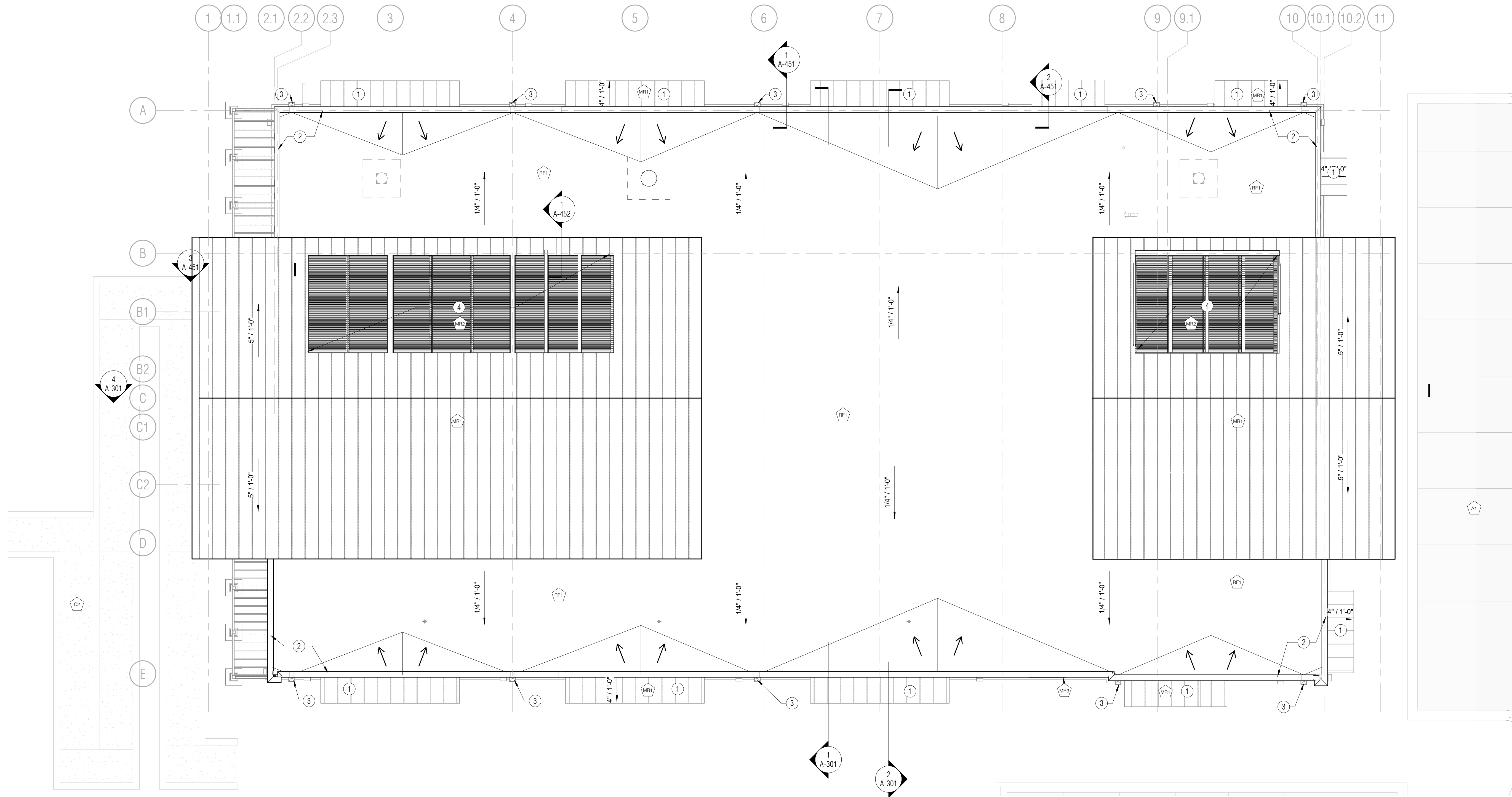
**LEGEND**

	NEW WALL
	EXISTING WALL
	MILLWORK BY G.C.
	AREA NOT IN SCOPE



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**1 ROOF PLAN**  
SCALE: 1/8" = 1'-0"

ISSUE RECORD	DATE
1 HAWP APPLICATION SUBMISSION	11/29/23

PROJECT

**HAMMER HILL DAYCARE CENTER**  
23312 FREDERICK RD  
CLARKSBURG, MD 20871  
PROJECT # 10272

DRAWING INFORMATION

STAMP

SHEET

**GENERAL NOTES**

- GENERAL CONTRACTOR (GC) SHOULD FIELD VERIFY CONDITIONS AND NOTIFY ARCHITECT IN WRITING OF ANY QUESTIONS.
- REFER TO SPECIFICATIONS DRAWINGS FOR ADDITIONAL INFORMATION FOR ROOFING, FLASHING REQUIREMENTS, AND MATERIALS.
- ALL ROOF PENETRATIONS SHALL BE LOCATED 3'-0" OR MORE FROM DRAINAGE FLOW LINES.
- VERIFY & COORDINATE DUCT CURB AND ROOF PENETRATION LOCATIONS; REFER TO THE MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
- PLUMBING VENTS OR EXHAUST UNITS ARE NOT ALLOWED WITHIN 10'-0" OF AIR METAL INTAKES OR 5'-0" OF EXTERIOR WALLS - REFER TO MECHANICAL DWGS.
- ALL SHEET METAL FLASHING TO COMPLY WITH THE "ARCHITECTURAL SHEET METAL MANUAL", LATEST EDITION AS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)
- ALL SHEET METAL FLASHING EXPOSED TO THE PUBLIC SHALL BE PAINTED OR PREFINISHED TO MATCH ROOFING COLOR. SEE BUILDING ELEVATIONS FOR COLOR SPECIFICATIONS. ALL OTHER NON-EXPOSED FLASHING TO BE GALVANIZED.
- UPON COMPLETION OF CONSTRUCTION AND PRIOR TO TENANT OCCUPANCY, G.C. SHALL ENSURE THAT THE ENTIRE ROOF, ROOF SCUPPERS/DOWNSPOUTS, AND OVERFLOW SCUPPERS ARE COMPLETELY CLEAR OF ANY AND ALL DEBRIS (CONSTRUCTION, NATURAL, OR OTHERWISE).
- PRIMARY ROOF DRAIN LEADERS AND GUTTER DOWNSPOUTS MUST CONNECT TO UNDERGROUND STORM SYSTEM, REFER TO KN 12 ON A-011 AND DETAIL 3 ON P-500. GUTTER DOWNSPOUTS SHALL DROP THROUGH SIDEWALK TO CONNECT TO UNDERGROUND SYSTEM (REFER TO DETAIL 7/A-032). OVERFLOW DRAINS TO BE INSTALLED AS REQUIRED BY CODE.

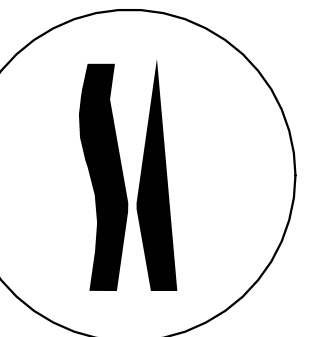
**PLAN SHEET NOTES**

- METAL AWNING BELOW, REFER TO EXTERIOR ELEVATIONS FOR COLOR.
- METAL PARAPET COPING, REFER TO EXTERIOR ELEVATIONS FOR COLOR.
- METAL SCUPPER BOX AND DOWNSPOUT.
- LOUVERED VENTS FOR MECHANICAL EQUIPMENT. SLOPE WITH ROOF.

**ROOF PLAN LEGEND**

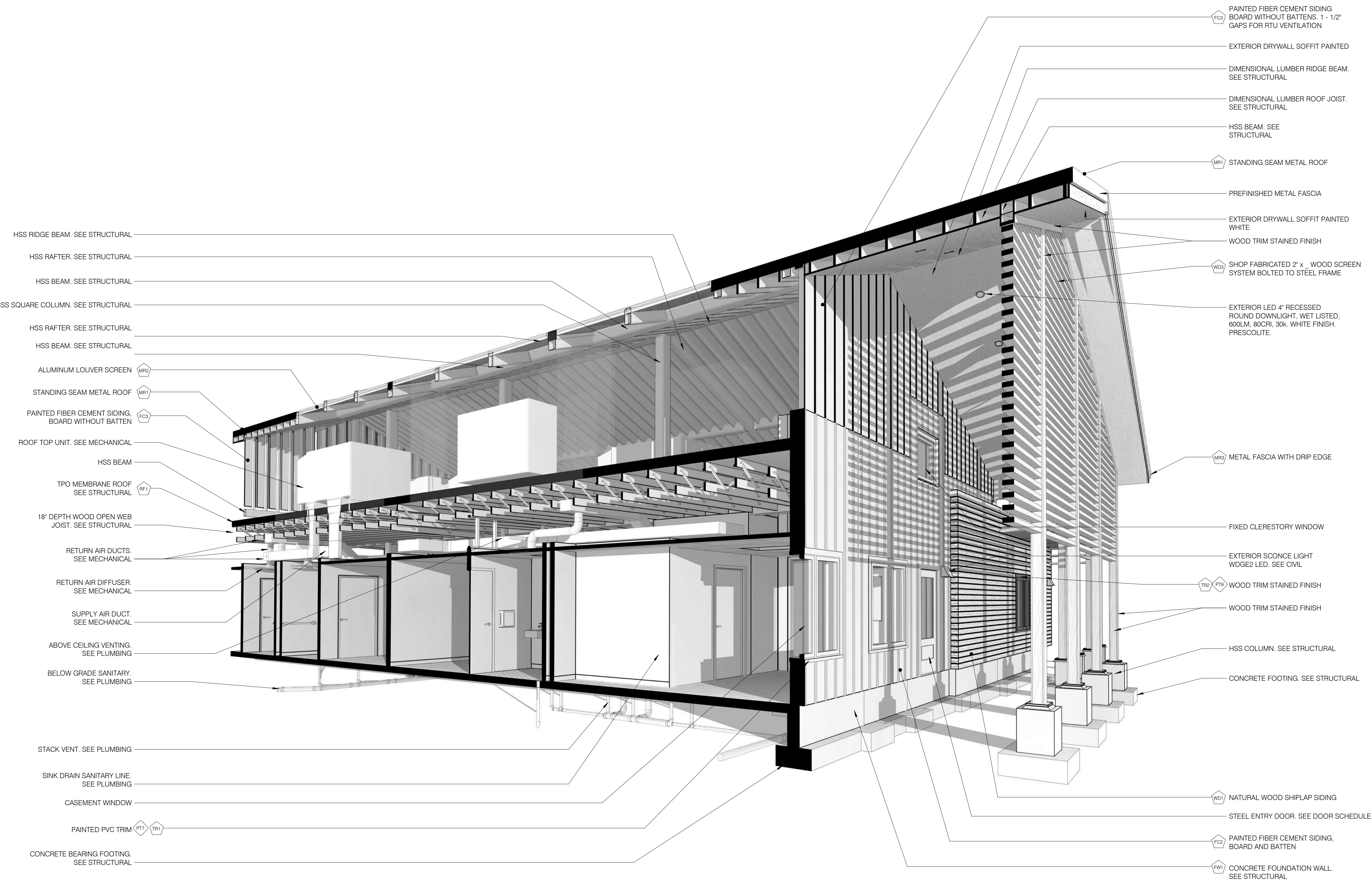
FOUNDATION WALLS AND ROOFING	PAVING
(FW1) CONCRETE FOUNDATION WALL	(A1) ASPHALT PAVING
(MR1) STANDING SEAM METAL ROOF	(C1) BUILDING CONCRETE FOUNDATION SLAB
(MR2) ALUMINUM LOUVER SCREEN	(C2) CONCRETE RAMP
(MR3) METAL COPING WITH DRIP EDGE	

ROOF PLAN  
**A-102**



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PROJECT **HAMMER HILL DAYCARE CENTER**  
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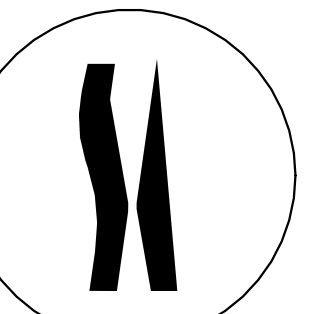
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GENERAL NOTES	EXTERIOR FINISH LEGEND	EXTERIOR FENESTRATIONS LEGEND																																			
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		EXTERIOR DOOR SPRINKLER ROOM																																			

SHEET  
**EXTERIOR FINISH DIAGRAM**  
**A-200**

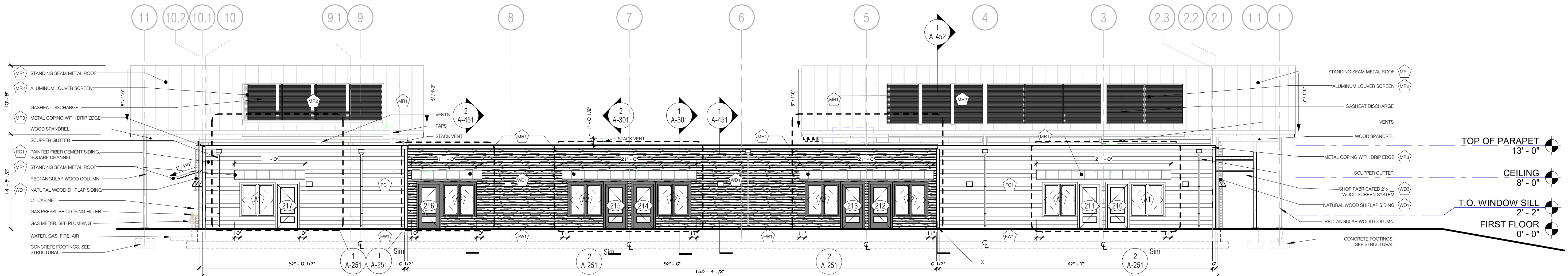
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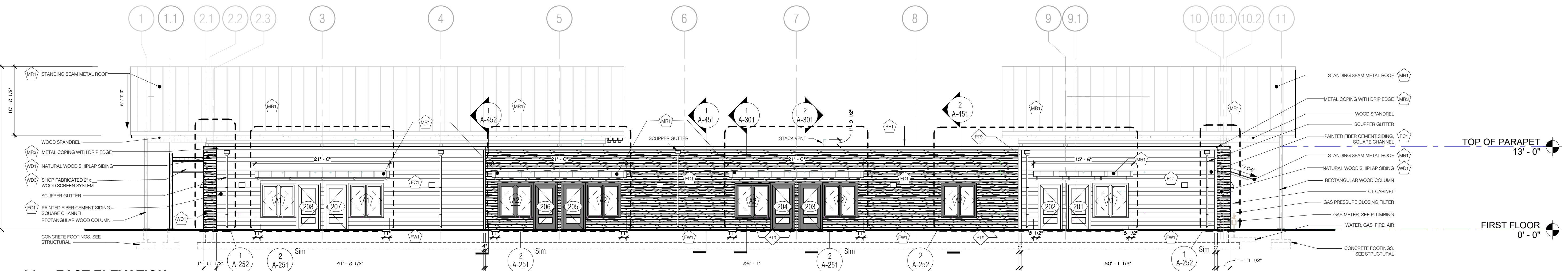


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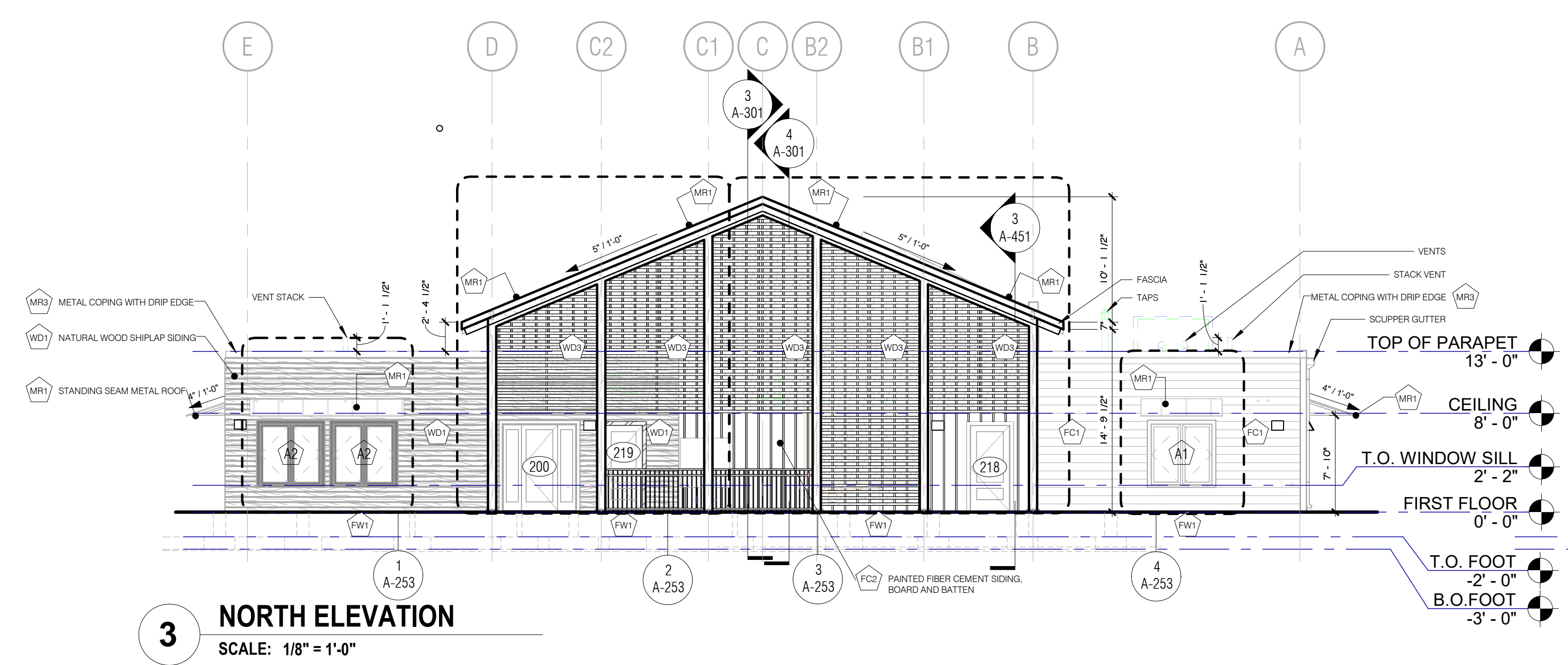
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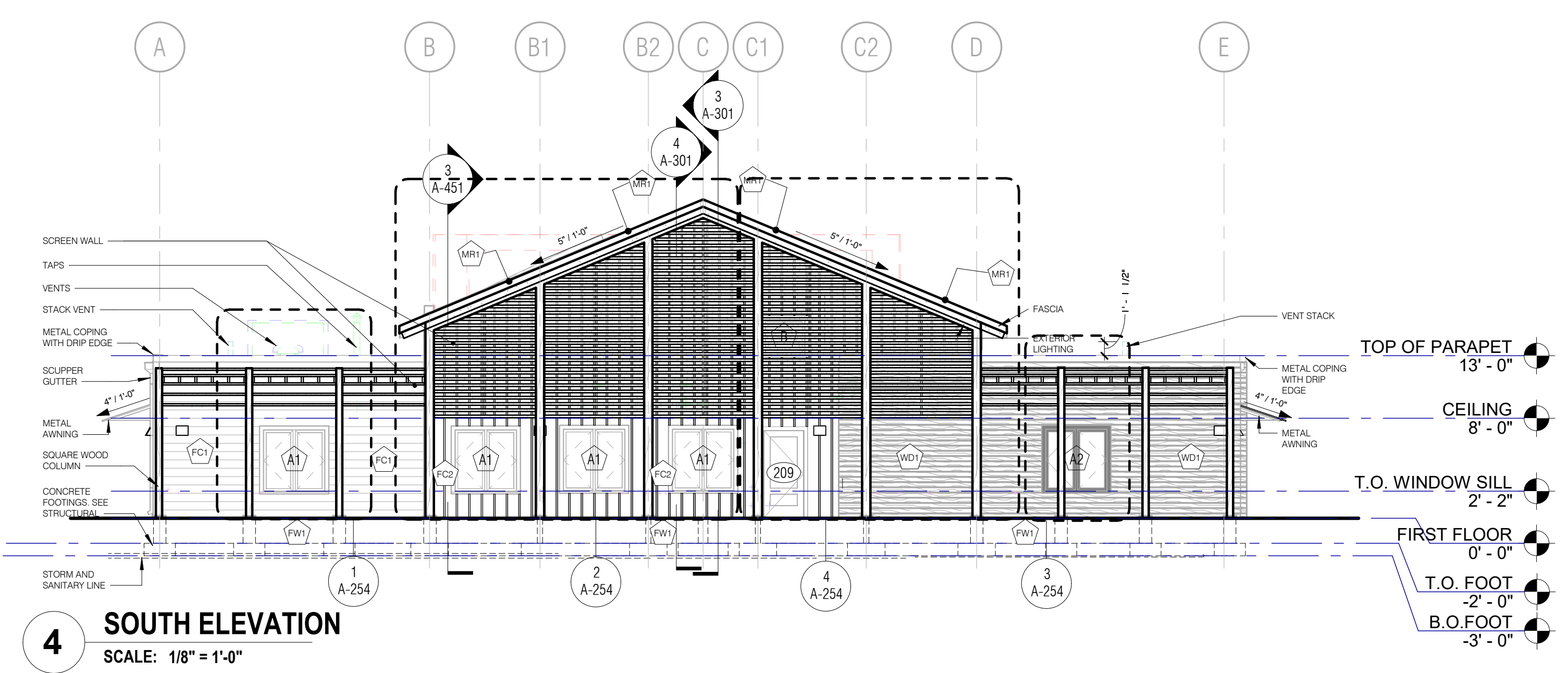
**1 WEST ELEVATION**  
SCALE: 1/8" = 1'-0"



**2 EAST ELEVATION**  
SCALE: 1/8" = 1'-0"



**3 NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**4 SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"

GENERAL NOTES	EXTERIOR FINISH LEGEND	EXTERIOR FENESTRATIONS LEGEND
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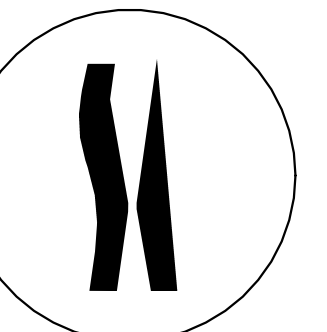
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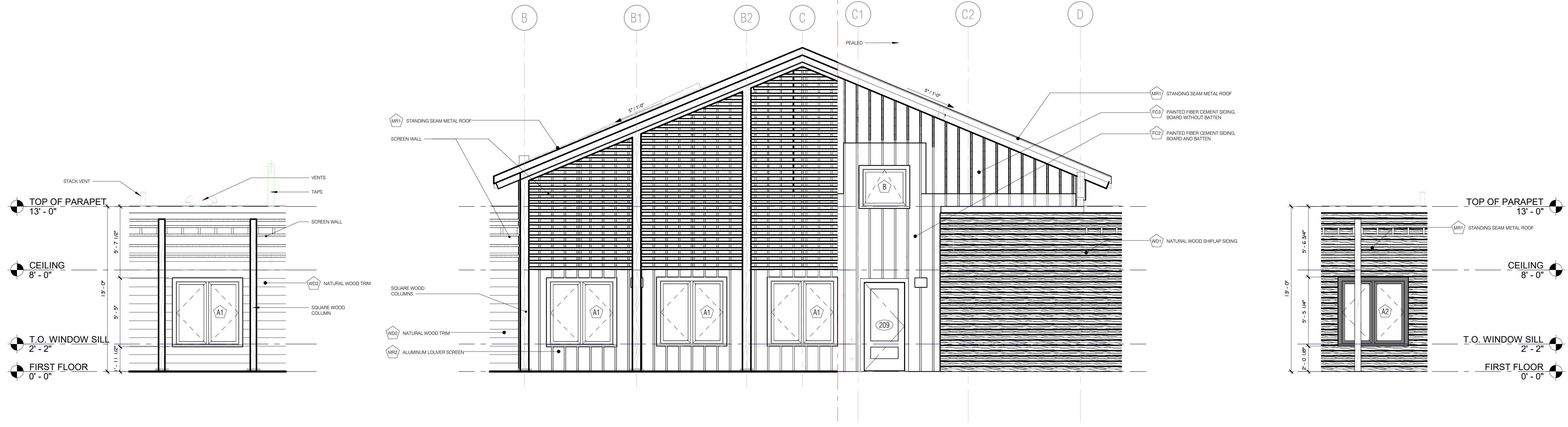
**BUILDING ELEVATIONS**

**A-201**



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1 SOUTH ELEVATION - TYPE 1  
1/4" = 1'-0"

2 SOUTH ELEVATION - TYPE 2  
1/4" = 1'-0"

4 SOUTH ELEVATION - TYPE 3 (PEALED)  
1/4" = 1'-0"

3 SOUTH ELEVATION - TYPE 4 (PEALED)  
1/4" = 1'-0"

**HARDIE® PANEL VERTICAL SIDING**  
**SMOOTH**  
You can't go wrong with this sleek, modern siding. Find the perfect color in our Statement Collection products or Dream Collection products. Or get it primed for paint.

**PRIMED FOR PAINT**  
James Hardie's primed for paint collection gives you the power to choose paint for your home's exterior. It's primed. It's ready for field painting. It's a durable, high-performance canvas.

**AVAILABLE SIZES**

THICKNESS: 0.312"

LENGTH: 108" 120"  
WIDTHS: 48" 48"

96" 48"

Warranty Information >

Request a Quote > Request a Sample >

FC2 PAINTED FIBER CEMENT SIDING, BOARD AND BATTEN P16 PAINT - BLUE

**HARDIE® TRIM BOARDS**  
**4/4 SMOOTH**  
This trim's simplicity never goes out of style. In a color from our Statement Collection products or Dream Collection products, it has even more staying power. Also available primed for paint.

**PRIMED FOR PAINT**  
James Hardie's primed for paint collection gives you the power to choose paint for your home's exterior. It's primed. It's ready for field painting. It's a durable, high-performance canvas.

**AVAILABLE SIZES**

THICKNESS: 0.75"

LENGTH: 144" boards

WIDTHS: 3.5" 5.5"  
7.25" 9.25"  
11.25"

Warranty Information >

Request a Quote > Request a Sample >

PT6 PAINT - BLUE

**HARDIE® PANEL VERTICAL SIDING**  
**SMOOTH**  
You can't go wrong with this sleek, modern siding. Find the perfect color in our Statement Collection products or Dream Collection products. Or get it primed for paint.

**PRIMED FOR PAINT**  
James Hardie's primed for paint collection gives you the power to choose paint for your home's exterior. It's primed. It's ready for field painting. It's a durable, high-performance canvas.

**AVAILABLE SIZES**

THICKNESS: 0.312"

LENGTH: 108" 120"  
WIDTHS: 48" 48"  
96" 11.25"  
48" (6x8)

Warranty Information >

Request a Quote > Request a Sample >

FC2 PAINTED FIBER CEMENT SIDING, BOARD WITHOUT BATTEN PT6 PAINT - BLUE

**PRODUCT SPECS**

**Mojave Thermal Oak | Smooth | HD Clear**

**STANDARD SIZES**  
1x6, 1 1/2x6, 2x6

**LENGTHS**  
Up to 12'

**GRADE**  
Clear

**FIRE RATING**  
SFR 12-18-1

WD2 NATURAL WOOD TRIM

**WOOD SCREEN WALL SPEC PLACEHOLDER**

WD2 SHOP FABRICATED 2" x WOOD SCREEN SYSTEM

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PROJECT **HAMMER HILL DAYCARE CENTER**  
23312 FREDERICK RD  
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DRAWING INFORMATION

STAMP

**GENERAL NOTES**

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- REFER TO A-603 EXTERIOR FENESTRATIONS SCHEDULE FOR MATERIAL IDENTIFICATION, PRODUCT INFO, AND SIZING
- REFER TO A-250 ENLARGED ELEVATIONS FOR EXPANDED MATERIAL IDENTIFICATION, SIZING SELECTIONS AND DIMENSIONS
- REFER TO A-900 ARCHITECTURAL SPECIFICATIONS FOR DETAILED PRODUCT INFO

**EXTERIOR FINISH LEGEND**

FOUNDATION WALLS AND ROOFING		SIDING AND TRIM	
FW1 CONCRETE FOUNDATION WALL		FC1 PAINTED FIBER CEMENT SIDING, SQUARE CHANNEL	
MR1 STANDING SEAM METAL ROOF		FC2 PAINTED FIBER CEMENT SIDING, BOARD AND BATTEN	
MR2 ALUMINUM LOUVER SCREEN		FC3 PAINTED FIBER CEMENT SIDING, BOARD WITHOUT BATTEN	
MR3 METAL COPING WITH DRIP EDGE		TR1 PAINTED PVC TRIM	
		WD1 NATURAL WOOD SHIPLAP SIDING	
		WD2 NATURAL WOOD TRIM	
		WD3 SHOP FABRICATED 2" x WOOD SCREEN SYSTEM	
		PTX PAINT TAG, SEE A-605 FOR EXTERIOR PAINT SCHEDULE	

**PAVING**

A1 ASPHALT PAVING	
C1 BUILDING CONCRETE FOUNDATION SLAB	
C2 CONCRETE RAMP	

**EXTERIOR FENESTRATIONS LEGEND**

WINDOWS	
A1 CASEMENT WINDOW, SEE EXTERIOR FENESTRATIONS SCHEDULE A-603	
A2 CASEMENT WINDOW PAINTED FINISH P16, SEE EXTERIOR FENESTRATIONS SCHEDULE A-603	
B FIXED CLERESTORY WINDOW, SEE EXTERIOR FENESTRATIONS SCHEDULE	

**DOORS - SEE EXTERIOR EXTERIOR FENESTRATIONS SCHEDULE**

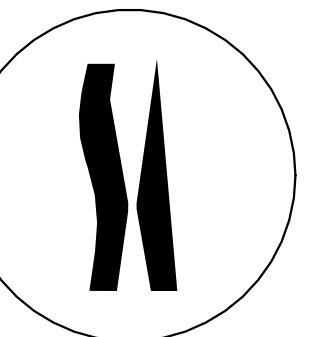
E1 EXTERIOR DOOR		F EXTERIOR ENTRY DOOR WITH SIDELITES	
E2 EXTERIOR DOOR PAINTED FINISH P16		G EXTERIOR DOOR SPRINKLER ROOM	

Scale : As indicated

SHEET

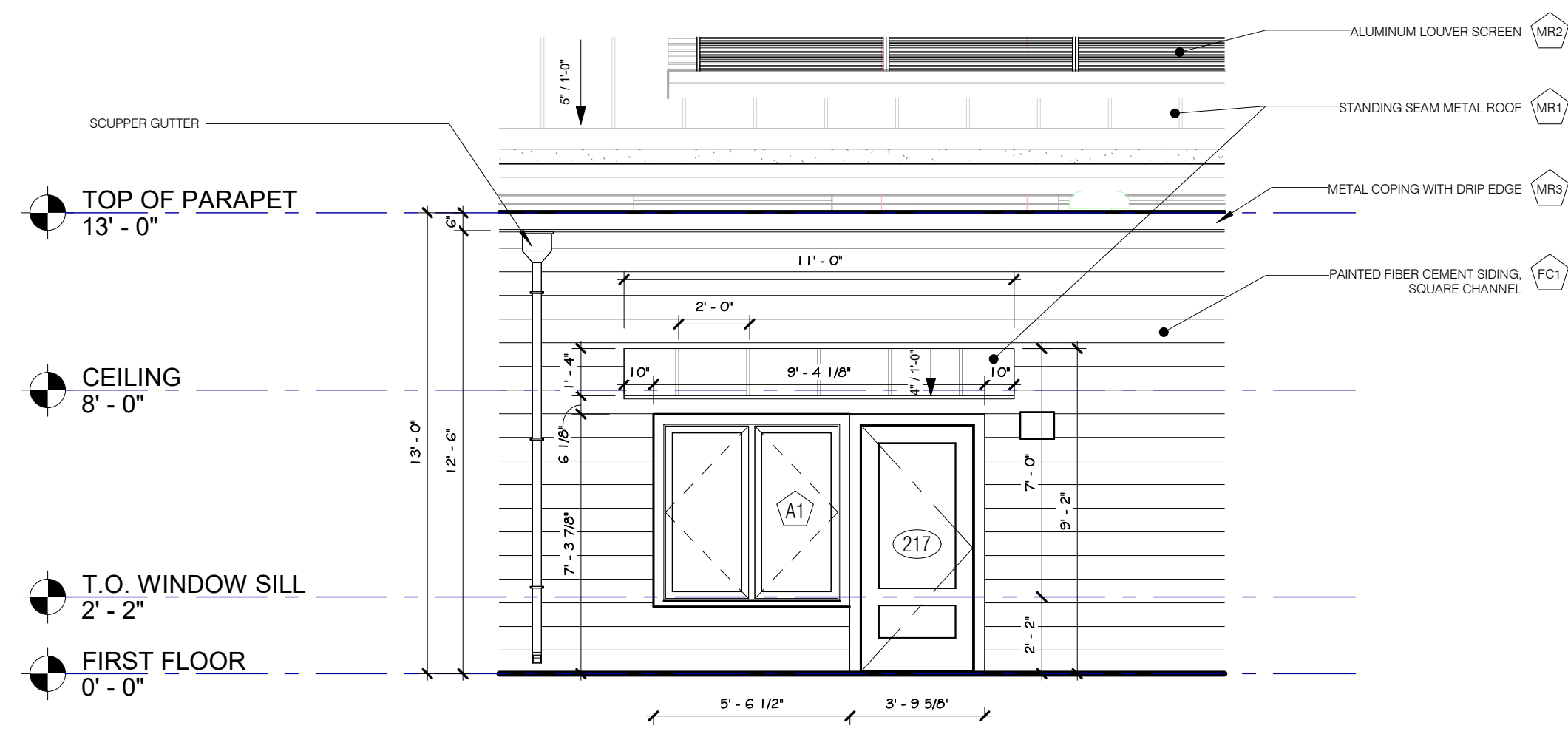
ENLARGED ELEVATIONS - SOUTH

A-254

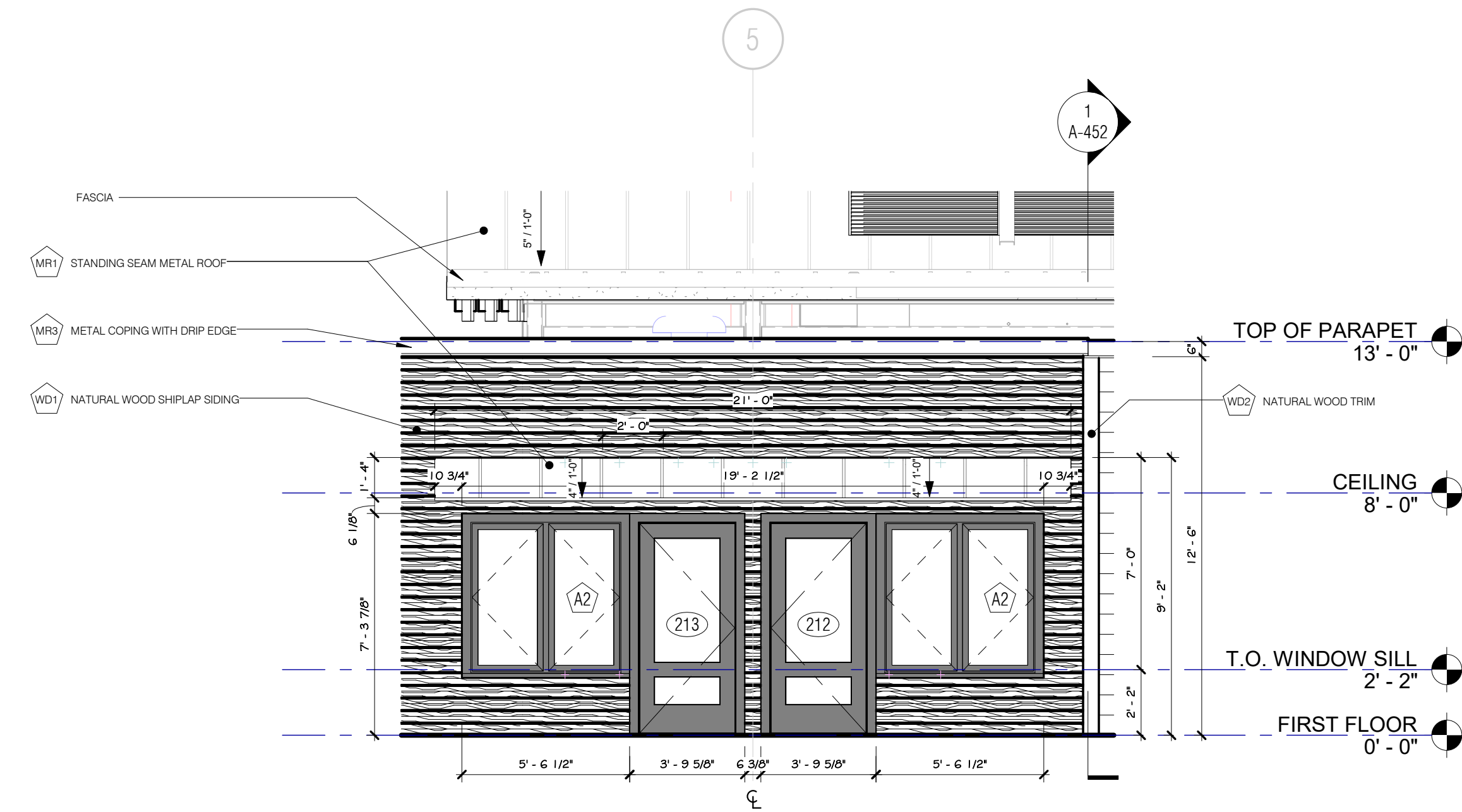


SKA STUDIO

47 Randall St.  
Suite 2  
Annapolis, MD 21401  
skastudio.com  
301 858 5853



1 WEST ELEVATION - TYPE 1 TYPICAL  
1/4" = 1'-0"



2 WEST ELEVATION - TYPE 2 TYPICAL  
1/4" = 1'-0"

**HARDIE® ARTISAN SIDING**  
**ARTISAN SQUARE CHANNEL SIDING**  
Artisan Square Channel's precise, right-angle cuts create wide-set channels that complement traditional and modern styles.

**PRIMED FOR PAINT**  
James Hardie's primed for paint collection gives you the power to choose paint for your home's exterior. It's primed. It's ready for field painting. It's a durable, high-performance canvas.

**AVAILABLE SIZES**

THICKNESS:	0.625"
LENGTH:	144" boards
WIDTHS:	10.25"
EXPOSURES:	9"

Request a Sample >

FC1 PAINTED FIBER CEMENT SIDING, SQUARE CHANNEL    PTB PAINT - GRAY

**PRODUCT SPECS**

**Mojave Thermal Oak | Smooth | HD Clear**

**STANDARD SIZES**  
1x4, 1x6, 1 1/2x6, 2x6

**LENGTHS**  
Up to 12'

**GRADE**  
Clear

**FIRE RATING**  
SFR 12-7A-1

WD1 NATURAL WOOD SHIPLAP SIDING

**A1500 Metal Roof System**

The A1500 metal roof panel is a 1 1/2" high integral snap-lock architectural metal roofing system consisting of an integral narrow batten seam that snaps over a rigid, continuous interlock leg to create a rugged, yet aesthetically pleasing, architectural metal roof panel system.

The A1500 integral snap lock architectural metal roof system combines architectural versatility, with cleanly detailed, continuous seam transitions from roof to mansard, fascia, or soffit, and comes in a wide variety of coatings and colors.

**Charcoal Grey**

**A1500 1 1/2" Snap-Lock**

Seam    Panel (ribs optional)    12", 24"    1 1/2"

MR1 STANDING SEAM METAL ROOF

**Standard Construction**

Frame	Heavy gauge extruded 6063-T5 aluminum, 4 in. (102 mm) x 0.081 in. (2 mm) nominal wall thickness
Blades	K style, heavy gauge extruded 6063-T5 aluminum, 0.081 in. (2 mm) nominal wall thickness, positioned 37° and 45° on approximately 4 in. (102 mm) centers
Louver Depth	4 in. (102 mm)
Construction	Mechanically fastened
Finish	Mil
Minimum Size	12 in. W x 12 in. H (305 mm W x 305 mm H)
Maximum Single Section Size	120 in. W or 120 in. H (limited to 70 sq. ft.) (3048 mm W or 3048 mm H) (limited to 6.5 sq. m)
Wind Load	25 PSF (1.2 kPa)

MR2 ALUMINUM LOUVER SCREEN    TWO 96" x 64" x 4'S PER ROW

**PVC SHEET WITH PAINTPRO® TECHNOLOGY**

Actual	8'	10'	12'
3/4" x 4'	X	X	-
1/2" x 4'	X	X	X

TR1 PAINTED PVC TRIM

ISSUE RECORD    DATE  
1 HAWP APPLICATION SUBMISSION    11/29/23

PROJECT **HAMMER HILL DAYCARE CENTER**  
23312 FREDERICK RD  
CLARKSBURG, MD 20871  
PROJECT # 10272

DRAWING INFORMATION

STAMP

- GENERAL NOTES**
- REFER TO A-500 DETAILS & A-605 EXTERIOR FINISH SCHEDULE FOR FINISH DESIGNATIONS, PRODUCT INFO, AND SIZING.
  - REFER TO A-603 EXTERIOR FENESTRATIONS SCHEDULE FOR MATERIAL IDENTIFICATION, PRODUCT INFO, AND SIZING
  - REFER TO A-250 ENLARGED ELEVATIONS FOR EXPANDED MATERIAL IDENTIFICATION, SIZING SELECTIONS AND DIMENSIONS
  - REFER TO A-900 ARCHITECTURAL SPECIFICATIONS FOR DETAILED PRODUCT INFO

**EXTERIOR FINISH LEGEND**

FOUNDATION WALLS AND ROOFING		SIDING AND TRIM	
FW1 CONCRETE FOUNDATION WALL		FC1 PAINTED FIBER CEMENT SIDING, SQUARE CHANNEL	
MR1 STANDING SEAM METAL ROOF		FC2 PAINTED FIBER CEMENT SIDING, BOARD AND BATTEN	
MR2 ALUMINUM LOUVER SCREEN		FC3 PAINTED FIBER CEMENT SIDING, BOARD WITHOUT BATTEN	
MRS METAL COPING WITH DRIP EDGE		TR1 PAINTED PVC TRIM	
		WD1 NATURAL WOOD SHIPLAP SIDING	
		WD2 NATURAL WOOD TRIM	
		WD3 SHOP FABRICATED 2" x 4" WOOD SCREEN SYSTEM	
		PTX PAINT TAG, SEE A-605 FOR EXTERIOR PAINT SCHEDULE	

**PAVING**

A1 ASPHALT PAVING	
C1 BUILDING CONCRETE FOUNDATION SLAB	
C2 CONCRETE RAMP	

**EXTERIOR FENESTRATIONS LEGEND**

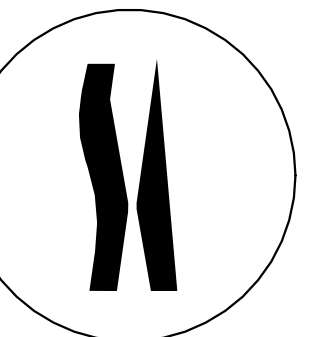
WINDOWS	
A1 CASEMENT WINDOW, SEE EXTERIOR FENESTRATIONS SCHEDULE A-603	
A2 CASEMENT WINDOW PAINTED FINISH PTP, SEE EXTERIOR FENESTRATIONS SCHEDULE A-603	
B FIXED CLERESTORY WINDOW, SEE EXTERIOR FENESTRATIONS SCHEDULE	

**DOORS - SEE EXTERIOR EXTERIOR FENESTRATIONS SCHEDULE**

E1 EXTERIOR DOOR		F EXTERIOR ENTRY DOOR WITH SIDELITES	
E2 EXTERIOR DOOR PAINTED FINISH PTP		G EXTERIOR DOOR SPRINKLER ROOM	

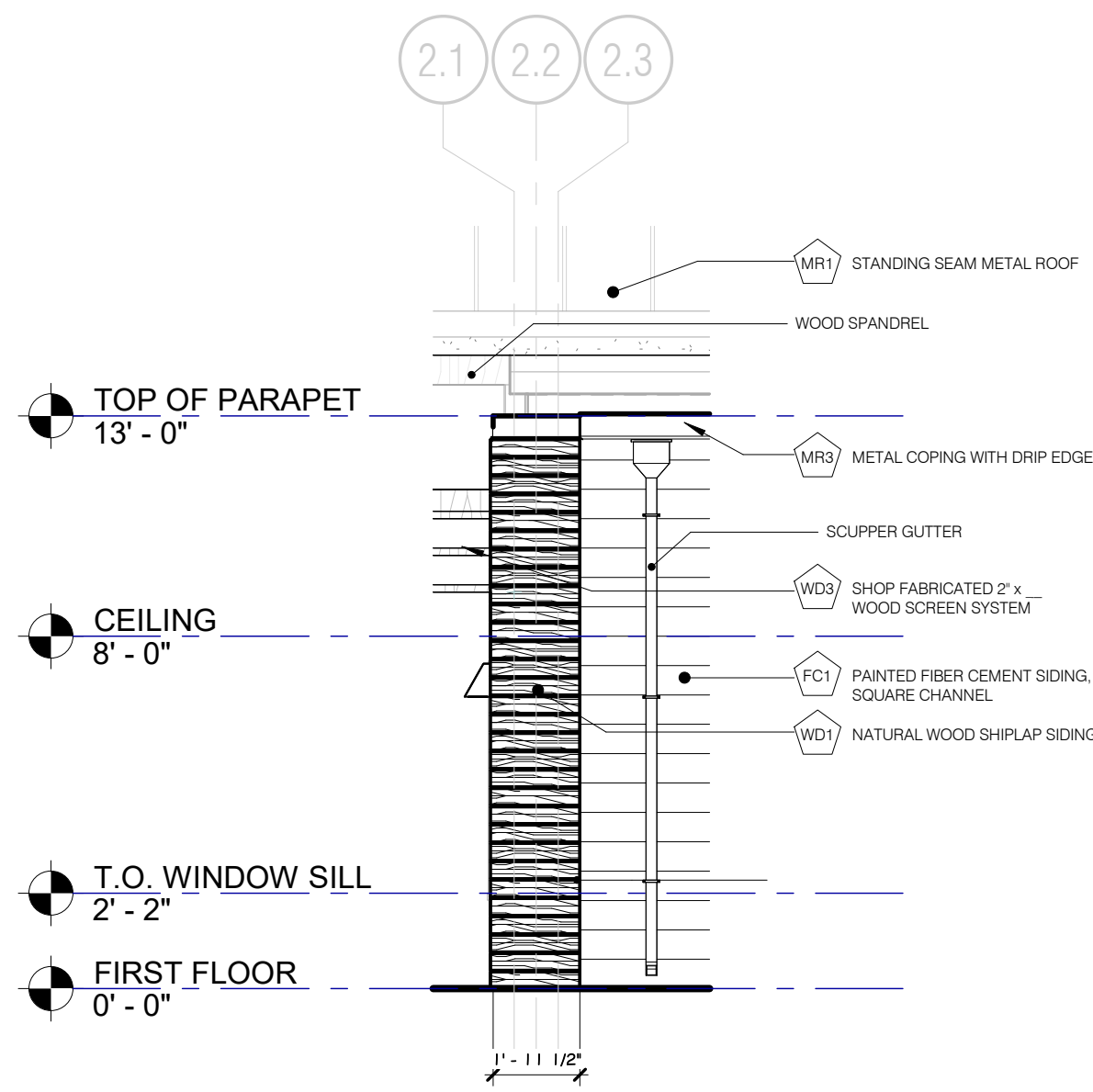
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SHEET  
**ENLARGED ELEVATIONS - WEST TYPICALS**  
**A-251**

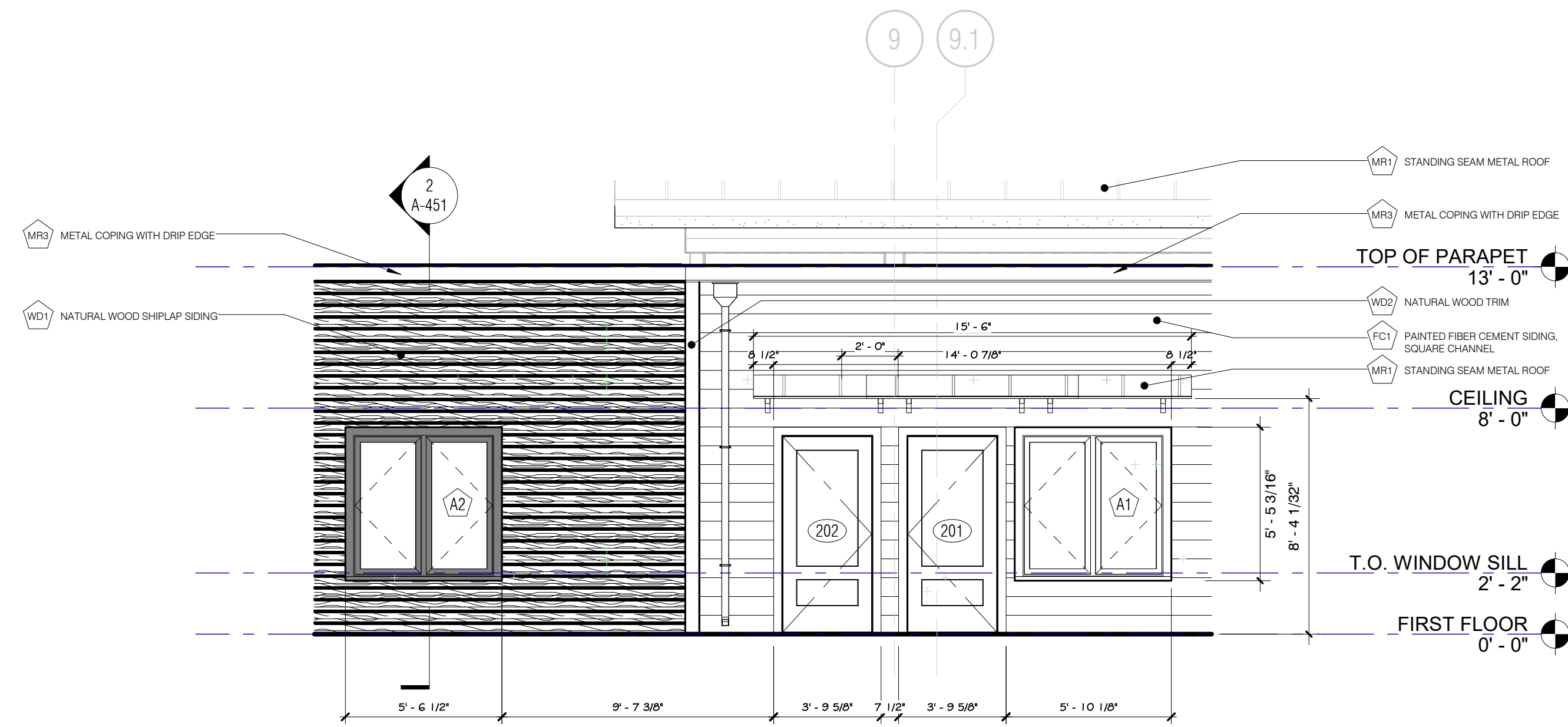


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301 858 5853



1 EAST ELEVATION - TYPE 1  
1/4" = 1'-0"



2 EAST ELEVATION - TYPE 2  
1/4" = 1'-0"

**HARDIE® ARTISAN SIDING**  
**ARTISAN SQUARE CHANNEL SIDING**  
Artisan Square Channel's precise, right-angle cuts create wide-set channels that complement traditional and modern styles.

**PRIMED FOR PAINT**  
James Hardie's primed for paint collection gives you the power to choose paint for your home's exterior. It's primed. It's ready for field painting. It's a durable, high-performance canvas.

**AVAILABLE SIZES**

THICKNESS:	0.625"
LENGTH:	144" boards
WIDTHS:	10.25"
EXPOSURES:	9"

Request a Sample >

FC1 PAINTED FIBER CEMENT SIDING, SQUARE CHANNEL | PTB PAINT - GRAY

**PRODUCT SPECS**

**Mojave Thermal Oak | Smooth | HD Clear**

**STANDARD SIZES**  
1x4, 1x6, 1 1/2x6, 2x6

**LENGTHS**  
Up to 12'

**GRADE**  
Clear

**FIRE RATING**  
SFR 12-7A-1

WD1 NATURAL WOOD SHIPLAP SIDING

**Charcoal Grey**

**A1500 1 1/2" Snap-Lock**

**A1500 Metal Roof System**

The A1500 metal roof panel is a 1 1/2" high integral snap-lock architectural metal roofing system consisting of an integral narrow batten seam that snaps over a rigid, continuous interlock leg to create a rugged, yet aesthetically pleasing, architectural metal roof panel system.

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MR1 STANDING SEAM METAL ROOF

**Standard Construction**

Frame	Heavy gauge extruded 6063-T5 aluminum, 4 in. (102 mm) x 0.081 in. (2 mm) nominal wall thickness
Blades	K style, heavy gauge extruded 6063-T5 aluminum, 0.081 in. (2 mm) nominal wall thickness, positioned 37° and 45° on approximately 4 in. (102 mm) centers
Louver Depth	4 in. (102 mm)
Construction	Mechanically fastened
Finish	Mil
Minimum Size	12 in. W x 12 in. H (305 mm W x 305 mm H)
Maximum Single Section Size	120 in. W or 120 in. H (limited to 70 sq. ft.) (3048 mm W or 3048 mm H) (limited to 6.5 sq. m)
Wind Load	25 PSF (1.2 kPa)

MR2 ALUMINUM LOUVER SCREEN TWO 96" x 64" x 4'S PER ROW

**PVC SHEET WITH PAINTPRO® TECHNOLOGY**

Actual	8'	10'	12'
3/4" x 4'	X	X	-
1/2" x 4'	X	X	X

TR1 PAINTED PVC TRIM

ISSUE RECORD DATE  
1 HAWP APPLICATION SUBMISSION 11/29/23

PROJECT **HAMMER HILL DAYCARE CENTER**  
23312 FREDERICK RD  
CLARKSBURG, MD 20871  
PROJECT # 10272

DRAWING INFORMATION

STAMP

**GENERAL NOTES**

- REFER TO A-500 DETAILS & A-605 EXTERIOR FINISH SCHEDULE FOR FINISH DESIGNATIONS, PRODUCT INFO, AND SIZING.
- REFER TO A-603 EXTERIOR FENESTRATIONS SCHEDULE FOR MATERIAL IDENTIFICATION, PRODUCT INFO, AND SIZING
- REFER TO A-250 ENLARGED ELEVATIONS FOR EXPANDED MATERIAL IDENTIFICATION, SIZING SELECTIONS AND DIMENSIONS
- REFER TO A-900 ARCHITECTURAL SPECIFICATIONS FOR DETAILED PRODUCT INFO

**EXTERIOR FINISH LEGEND**

FOUNDATION WALLS AND ROOFING		SIDING AND TRIM	
FW1 CONCRETE FOUNDATION WALL		FC1 PAINTED FIBER CEMENT SIDING, SQUARE CHANNEL	
MR1 STANDING SEAM METAL ROOF		FC2 PAINTED FIBER CEMENT SIDING, BOARD AND BATTEN	
MR2 ALUMINUM LOUVER SCREEN		FC3 PAINTED FIBER CEMENT SIDING, BOARD WITHOUT BATTEN	
MRS METAL COPING WITH DRIP EDGE		TR1 PAINTED PVC TRIM	
		WD1 NATURAL WOOD SHIPLAP SIDING	
		WD2 NATURAL WOOD TRIM	
		WD3 SHOP FABRICATED 2" x WOOD SCREEN SYSTEM	
		PTX PAINT TAG, SEE A-605 FOR EXTERIOR PAINT SCHEDULE	

**PAVING**

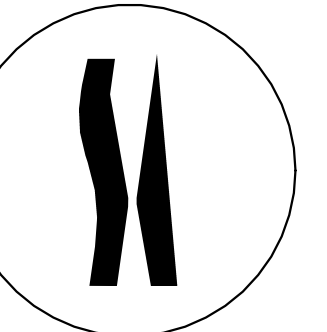
A1 ASPHALT PAVING	
C1 BUILDING CONCRETE FOUNDATION SLAB	
C2 CONCRETE RAMP	

**EXTERIOR FENESTRATIONS LEGEND**

WINDOWS		DOORS - SEE EXTERIOR EXTERIOR FENESTRATIONS SCHEDULE	
A1 CASEMENT WINDOW, SEE EXTERIOR FENESTRATIONS SCHEDULE A-603		E1 EXTERIOR DOOR	
A2 CASEMENT WINDOW PAINTED FINISH PTP, SEE EXTERIOR FENESTRATIONS SCHEDULE A-603		F EXTERIOR ENTRY DOOR WITH SIDELITES	
B FIXED CLERESTORY WINDOW, SEE EXTERIOR FENESTRATIONS SCHEDULE		E2 EXTERIOR DOOR PAINTED FINISH PTP	
		G EXTERIOR DOOR SPRINKLER ROOM	

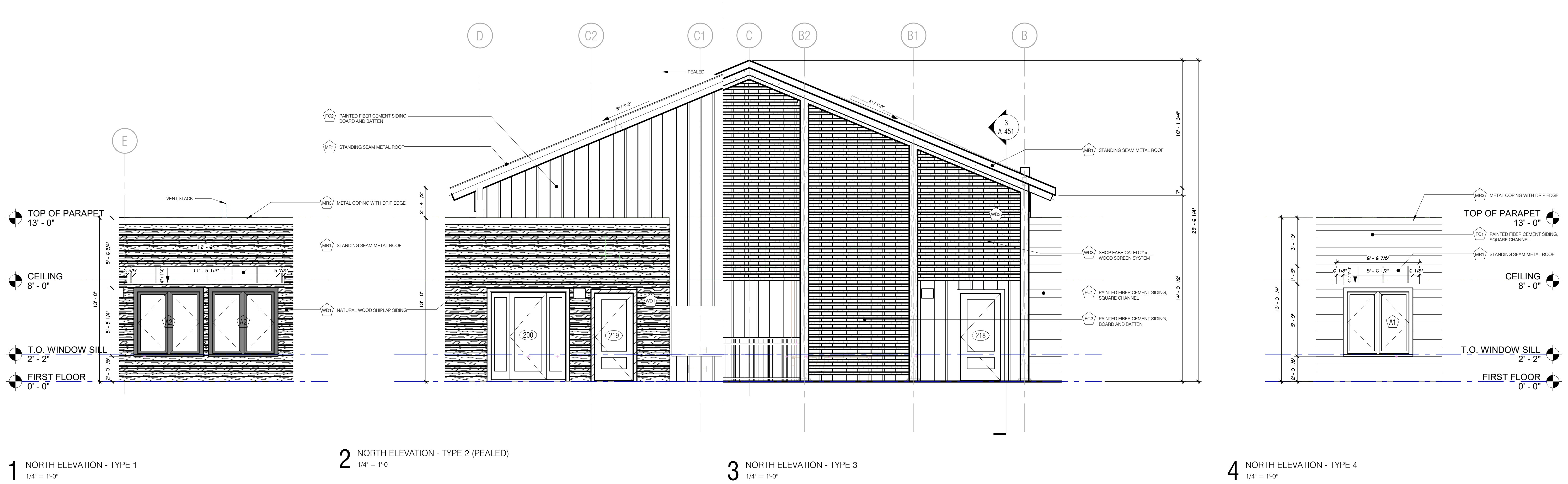
SHEET

ENLARGED ELEVATIONS - EAST  
**A-252**



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Suite 2  
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301 858 5853



1 NORTH ELEVATION - TYPE 1  
1/4" = 1'-0"

2 NORTH ELEVATION - TYPE 2 (PEALED)  
1/4" = 1'-0"

3 NORTH ELEVATION - TYPE 3  
1/4" = 1'-0"

4 NORTH ELEVATION - TYPE 4  
1/4" = 1'-0"

ISSUE RECORD DATE  
1 HAWP APPLICATION SUBMISSION 11/29/23

**HARDIE® PANEL VERTICAL SIDING**  
**SMOOTH**  
You can't go wrong with this sleek, modern siding. Find the perfect color in our Statement Collection products or Dream Collection products. Or get it primed for paint.

**PRIMED FOR PAINT**  
James Hardie's primed for paint collection gives you the power to choose paint for your home's exterior. It's primed. It's ready for field painting. It's a durable, high-performance canvas.

**AVAILABLE SIZES**

THICKNESS: 0.312"

LENGTH: 108" 120"

WIDTHS: 48" 48"

96" 48"

11.25"

Warranty Information >

Request a Quote > Request a Sample >

**HARDIE® TRIM BOARDS**  
**4/4 SMOOTH**  
This trim's simplicity never goes out of style. In a color from our Statement Collection products or Dream Collection products, it has even more staying power. Also available primed for paint.

**PRIMED FOR PAINT**  
James Hardie's primed for paint collection gives you the power to choose paint for your home's exterior. It's primed. It's ready for field painting. It's a durable, high-performance canvas.

**AVAILABLE SIZES**

THICKNESS: 0.75"

LENGTH: 144" boards

WIDTHS: 3.5" 5.5"

7.25" 9.25"

11.25"

Warranty Information >

Request a Quote > Request a Sample >

**HARDIE® PANEL VERTICAL SIDING**  
**SMOOTH**  
You can't go wrong with this sleek, modern siding. Find the perfect color in our Statement Collection products or Dream Collection products. Or get it primed for paint.

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**AVAILABLE SIZES**

THICKNESS: 0.312"

LENGTH: 108" 120"

WIDTHS: 48" 48"

96" 11.25" (6x)

48" (6x)

Warranty Information >

Request a Quote > Request a Sample >

**WOOD SCREEN WALL**  
**SPEC PLACEHOLDER**

**PRODUCT SPECS**

**Mojave Thermal Oak | Smooth | HD Clear**

**STANDARD SIZES**  
1x6, 1 1/2x6, 2x6

**LENGTHS**  
Up to 12'

**GRADE**  
Clear

**FIRE RATING**  
SFR 12-18-1

**WOOD SCREEN WALL**  
**SPEC PLACEHOLDER**

PROJECT **HAMMER HILL DAYCARE CENTER**  
23312 FREDERICK RD  
CLARKSBURG, MD 20871  
PROJECT # 10272

DRAWING INFORMATION

STAMP

**GENERAL NOTES**

- REFER TO A-500 DETAILS & A-605 EXTERIOR FINISH SCHEDULE FOR FINISH DESIGNATIONS, PRODUCT INFO, AND SIZING.
- REFER TO A-603 EXTERIOR FENESTRATIONS SCHEDULE FOR MATERIAL IDENTIFICATION, PRODUCT INFO, AND SIZING
- REFER TO A-250 ENLARGED ELEVATIONS FOR EXPANDED MATERIAL IDENTIFICATION, SIZING SELECTIONS AND DIMENSIONS
- REFER TO A-900 ARCHITECTURAL SPECIFICATIONS FOR DETAILED PRODUCT INFO

**EXTERIOR FINISH LEGEND**

FOUNDATION WALLS AND ROOFING		SIDING AND TRIM	
FW1	CONCRETE FOUNDATION WALL	FC1	PAINTED FIBER CEMENT SIDING, SQUARE CHANNEL
MR1	STANDING SEAM METAL ROOF	FC2	PAINTED FIBER CEMENT SIDING, BOARD AND BATTEN
MR2	ALUMINUM LOUVER SCREEN	FC3	PAINTED FIBER CEMENT SIDING, BOARD WITHOUT BATTEN
MR3	METAL COPING WITH DRIP EDGE	TR1	PAINTED PVC TRIM
		WD1	NATURAL WOOD SHIPLAP SIDING
		WD2	NATURAL WOOD TRIM
		WD3	SHOP FABRICATED 2" x WOOD SCREEN SYSTEM
		PTX	PAINT TAG, SEE A-605 FOR EXTERIOR PAINT SCHEDULE

**PAVING**

A1	ASPHALT PAVING
C1	BUILDING CONCRETE FOUNDATION SLAB
C2	CONCRETE RAMP

**EXTERIOR FENESTRATIONS LEGEND**

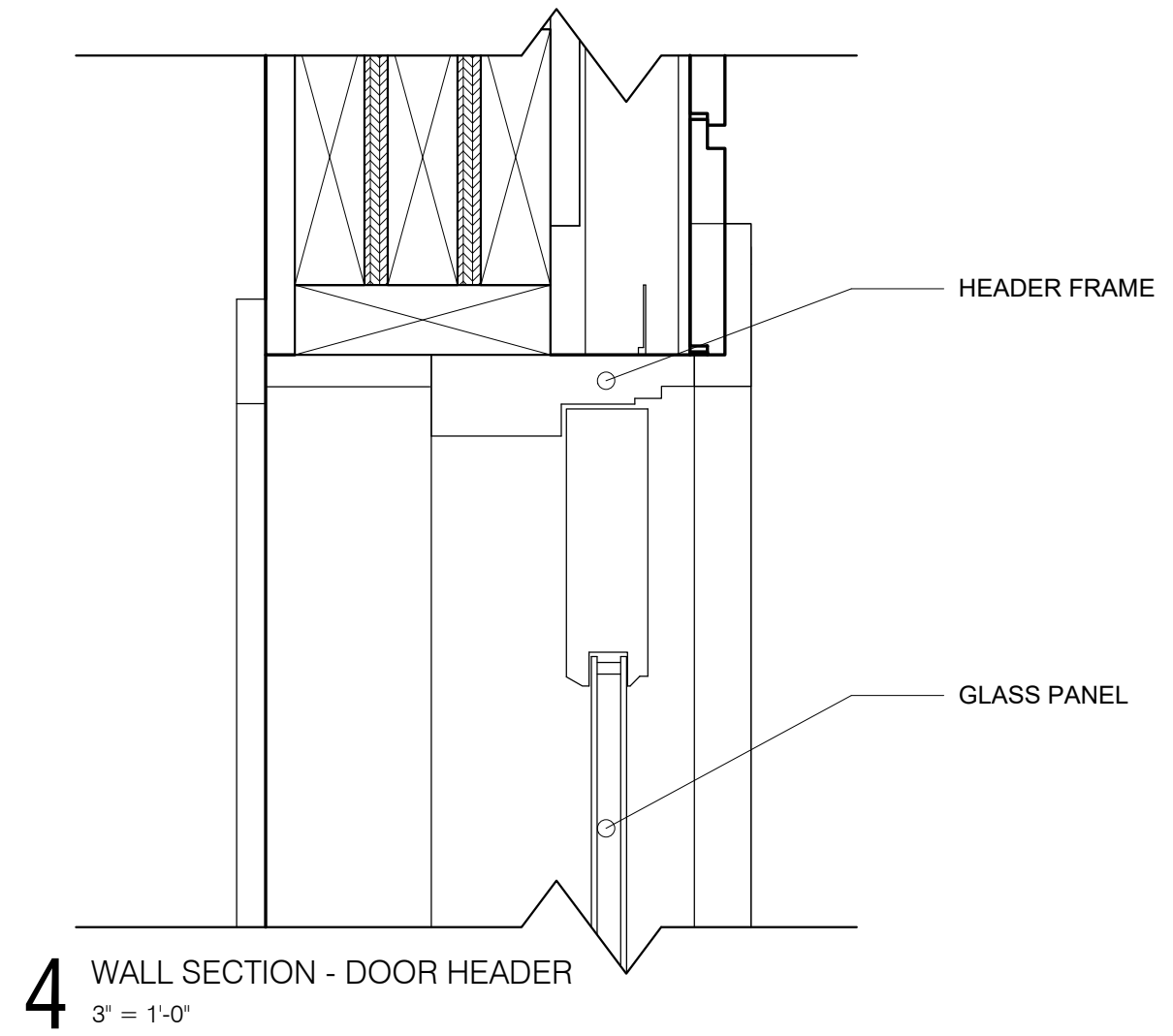
WINDOWS		DOORS - SEE EXTERIOR EXTERIOR FENESTRATIONS SCHEDULE	
A1	CASEMENT WINDOW, SEE EXTERIOR FENESTRATIONS SCHEDULE A-603	E1	EXTERIOR DOOR
A2	CASEMENT WINDOW PAINTED FINISH PFB, SEE EXTERIOR FENESTRATIONS SCHEDULE A-603	F	EXTERIOR ENTRY DOOR WITH SIDELITES
B	FIXED CLERESTORY WINDOW, SEE EXTERIOR FENESTRATIONS SCHEDULE	E2	EXTERIOR DOOR PAINTED FINISH PFB
		G	EXTERIOR DOOR SPRINKLER ROOM

Scale : As indicated

SHEET  
**ENLARGED ELEVATIONS - NORTH**  
**A-253**

EXTERIOR DOOR SCHEDULE

INDEX	MANUFACTURER	TYPE	DOOR TYPE	MODEL	HARDWARE	WIDTH	HEIGHT	THICKNESS	DOOR FINISH	FRAME FINISH	FIRE RATING	COMMENTS
E1	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	- / PT7	- / PT7		INTERIOR PAINT / EXTERIOR PAINT
201	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	- / PT7	- / PT7		INTERIOR PAINT / EXTERIOR PAINT
202	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	- / PT7	- / PT7		INTERIOR PAINT / EXTERIOR PAINT
207	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT6 / PT7	PT6 / PT7		INTERIOR PAINT / EXTERIOR PAINT
208	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT6 / PT7	PT6 / PT7		INTERIOR PAINT / EXTERIOR PAINT
209	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT4 / PT7	PT4 / PT7		INTERIOR PAINT / EXTERIOR PAINT
210	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT6 / PT7	PT6 / PT7		INTERIOR PAINT / EXTERIOR PAINT
211	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT3 / PT7	PT3 / PT7		INTERIOR PAINT / EXTERIOR PAINT
217	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT6 / PT7	PT6 / PT7		INTERIOR PAINT / EXTERIOR PAINT
218	MARVIN	E1	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT6 / PT7	PT6 / PT7		INTERIOR PAINT / EXTERIOR PAINT
E2	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT2 / PT9	PT2 / PT9		INTERIOR PAINT / EXTERIOR PAINT
203	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT2 / PT9	PT2 / PT9		INTERIOR PAINT / EXTERIOR PAINT
204	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT2 / PT9	PT2 / PT9		INTERIOR PAINT / EXTERIOR PAINT
205	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT4 / PT9	PT4 / PT9		INTERIOR PAINT / EXTERIOR PAINT
206	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT4 / PT9	PT4 / PT9		INTERIOR PAINT / EXTERIOR PAINT
212	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT4 / PT9	PT4 / PT9		INTERIOR PAINT / EXTERIOR PAINT
213	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT6 / PT9	PT6 / PT9		INTERIOR PAINT / EXTERIOR PAINT
214	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT3 / PT9	PT3 / PT9		INTERIOR PAINT / EXTERIOR PAINT
215	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT2 / PT9	PT2 / PT9		INTERIOR PAINT / EXTERIOR PAINT
216	MARVIN	E2	ULTIMATE COMMERCIAL DOOR	UCD3684/UCDDGTR3612		3'-4"	7'-1 1/16"	0'-1 3/4"	PT3 / PT9	PT3 / PT9		INTERIOR PAINT / EXTERIOR PAINT
F	MARVIN	F	ULTIMATE OUTSWING FRENCH DOOR ENTRANCE SYSTEM	UOFG2 6280 SLXSL		6'-0 5/8"	7'-2"	0'-1 3/4"				
G	MARVIN	G	ULTIMATE COMMERCIAL DOOR	UCD3684		3'-2 3/16"	7'-1 1/16"	0'-1 3/4"				FLAT PANEL DOOR WITH 10 13/16" VISIBLE PANEL HEIGHT

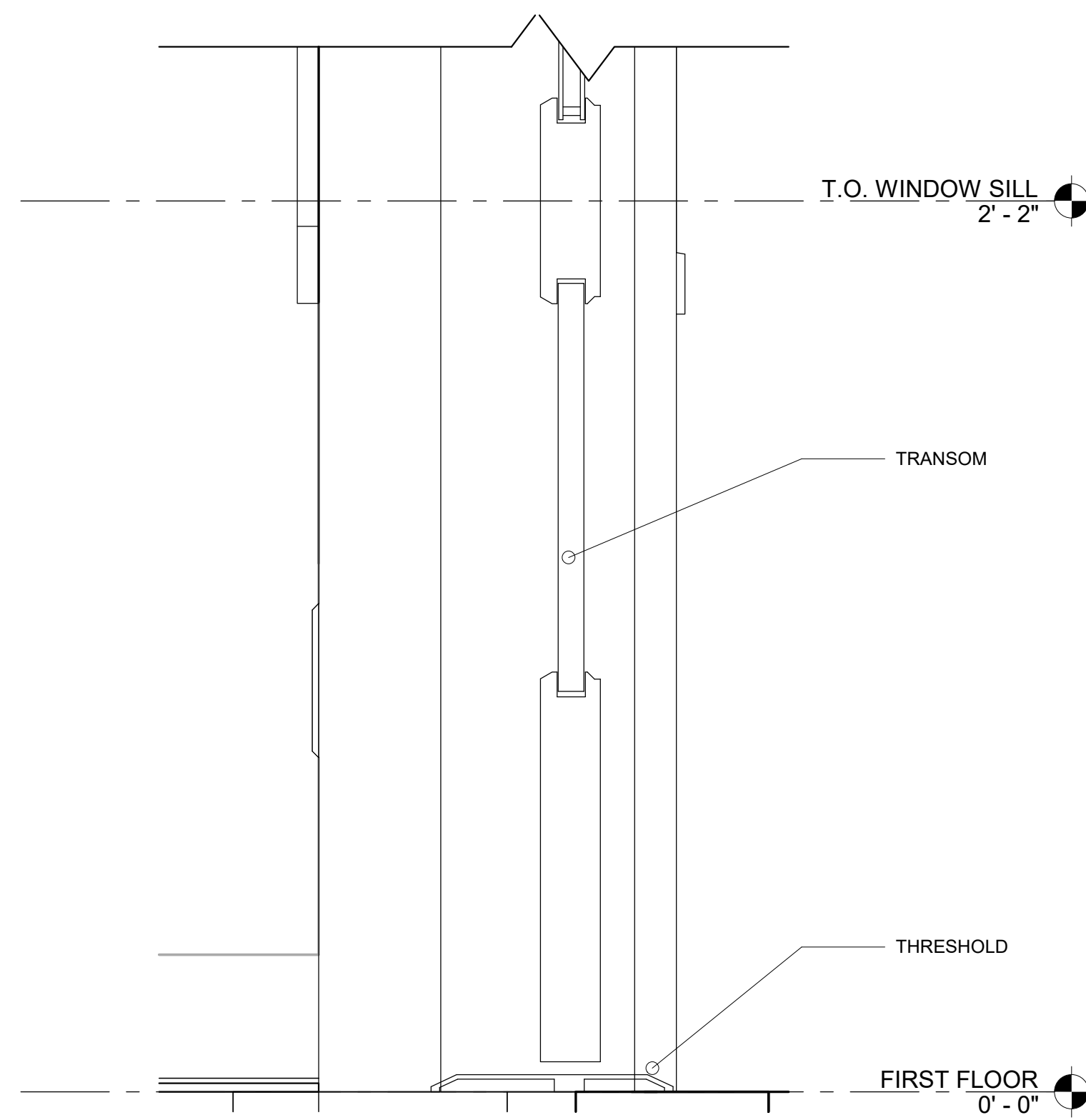
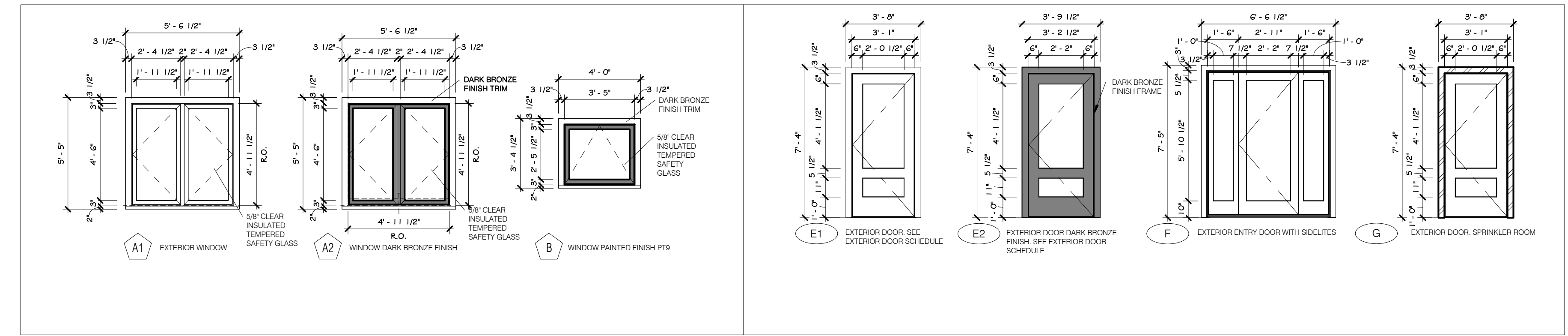


4 WALL SECTION - DOOR HEADER  
3" = 1'-0"

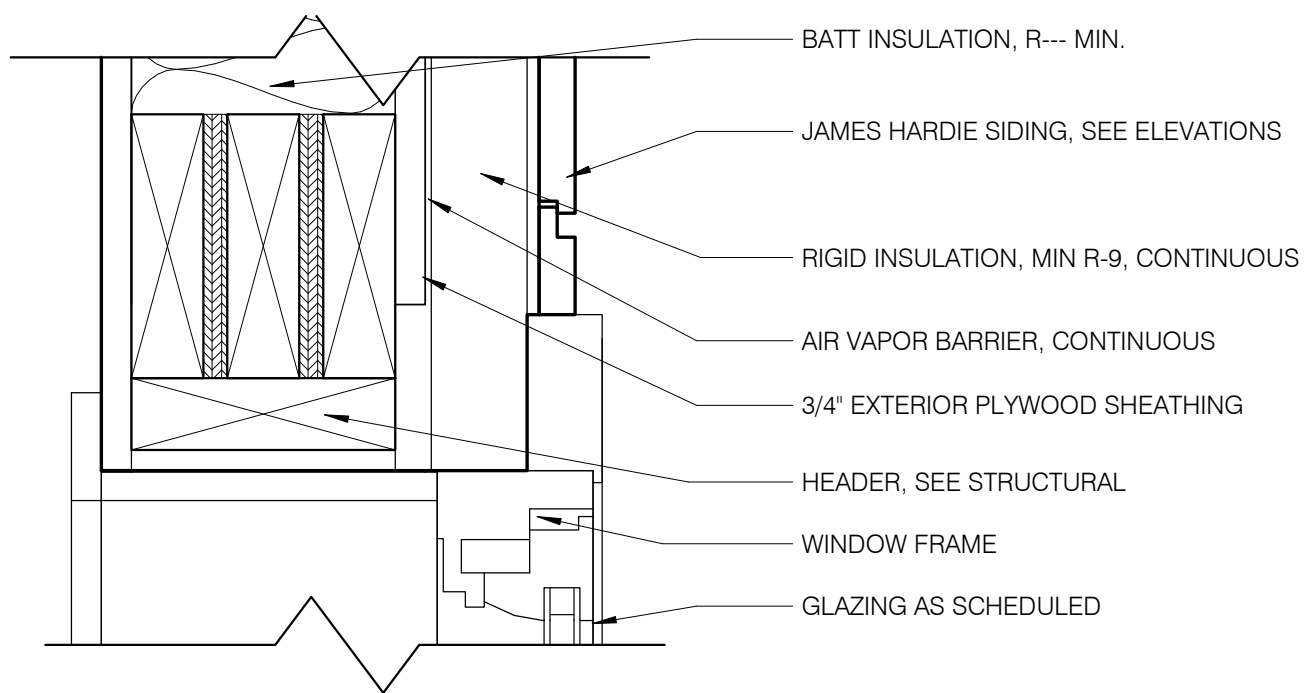
EXTERIOR WINDOW SCHEDULE

TYPE	MANUFACTURER	MODEL	WINDOW TYPE	WIDTH	Height	FRAME FINISH	SHGC	Comments
A1	Andersen Corporation	2650-2	100 SERIES CASEMENT WINDOWS	5'-0"	5'-0"	WHITE		Meets or exceed clear opening area of 5.7 sq. ft. or 0.53 m2, clear opening width of 20" (508) and clear opening height of 24" (610)
A2	Andersen Corporation	2650-2	100 SERIES CASEMENT WINDOWS	5'-0"	5'-0"	DARK BRONZE		Meets or exceed clear opening area of 5.7 sq. ft. or 0.53 m2, clear opening width of 20" (508) and clear opening height of 24" (610)
B	Andersen Corporation	100AS4030	Fibrex awning window	3'-5 1/2"	2'-11 1/2"			

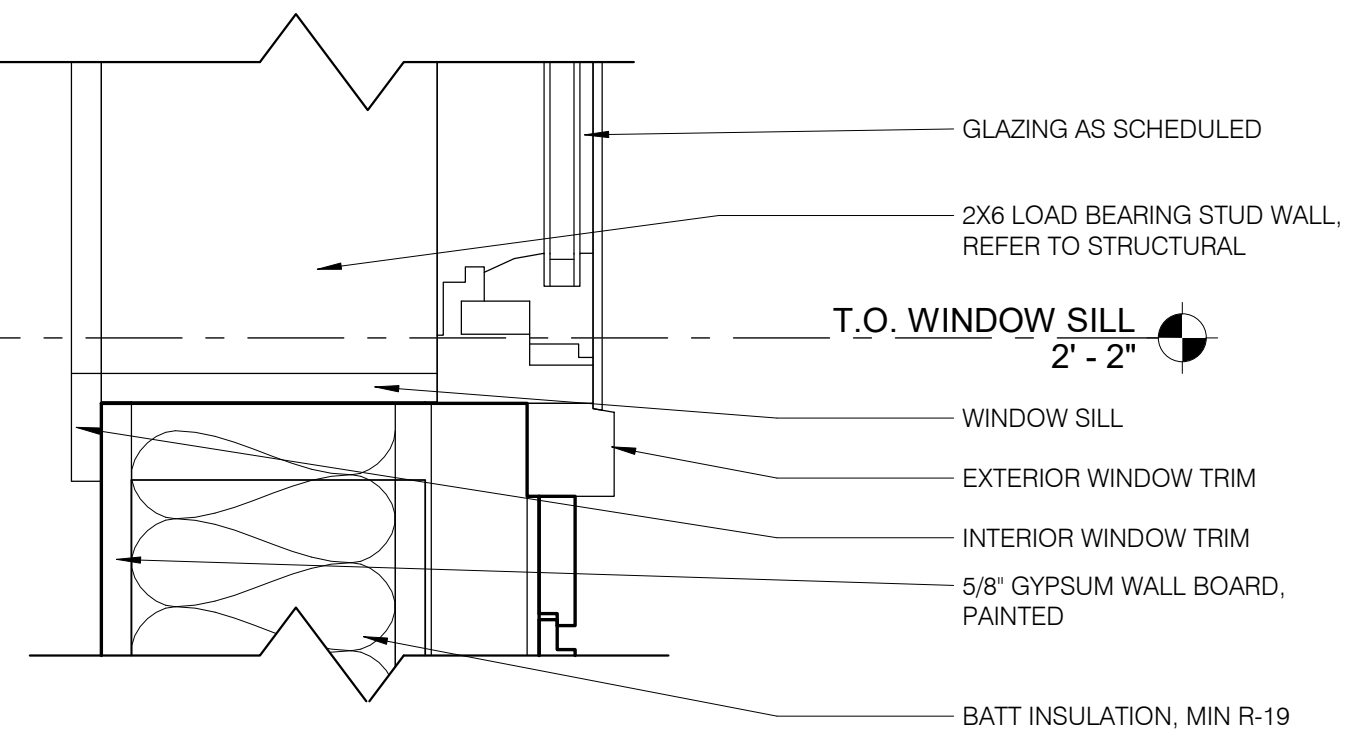
EXTERIOR WINDOW AND DOOR ELEVATIONS



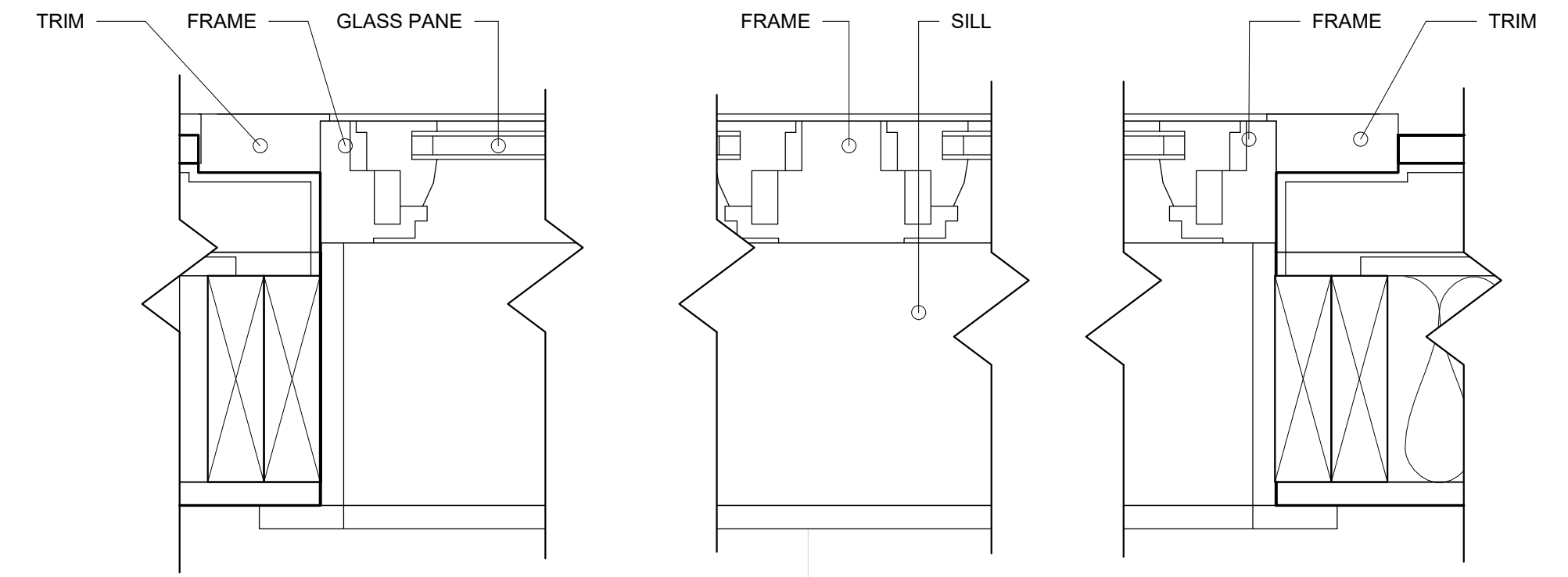
5 BUILDING SECTION - DOOR SILL  
3" = 1'-0"



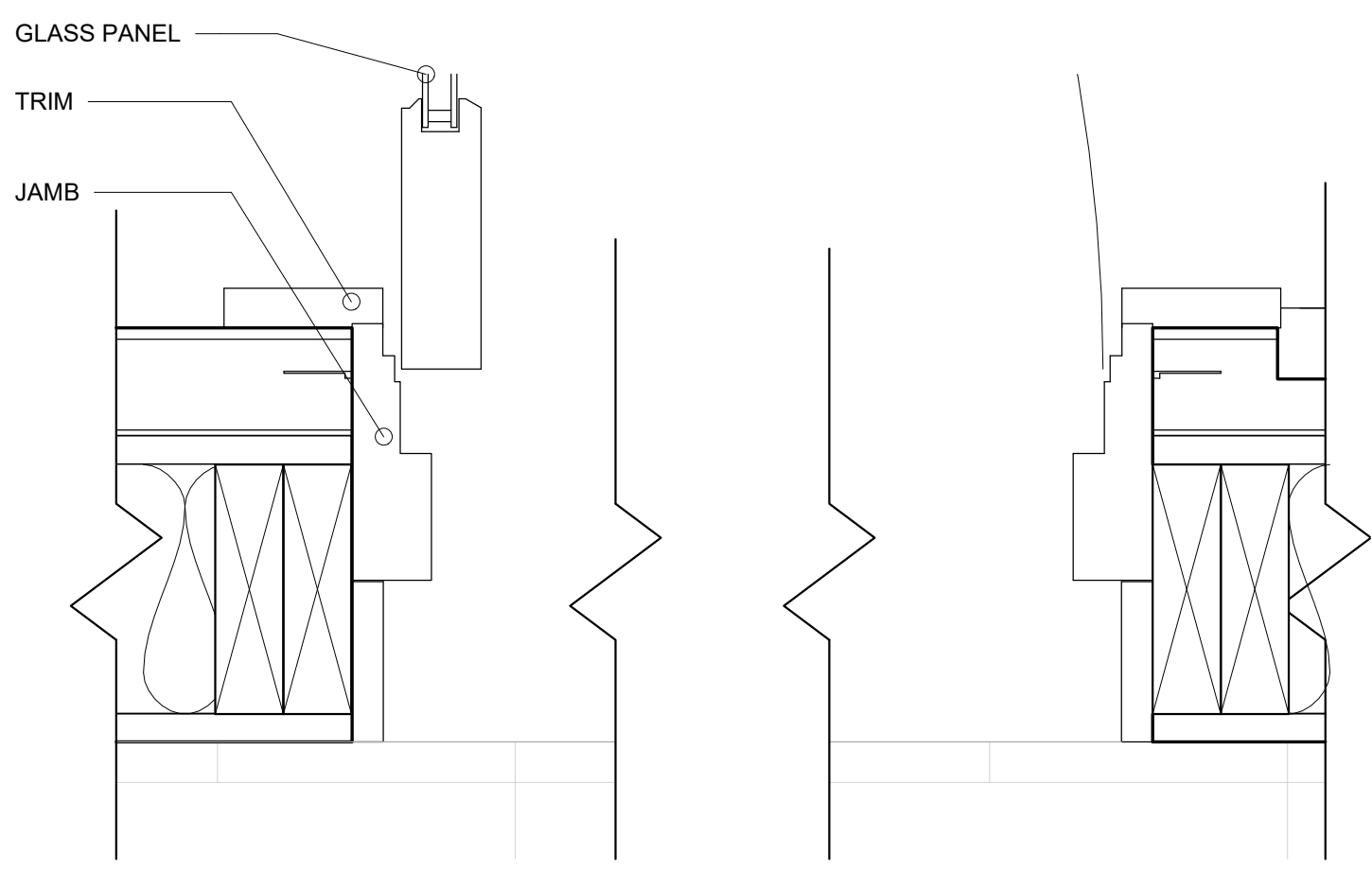
1 WALL SECTION - WINDOW HEADER  
3" = 1'-0"



2 WALL SECTION - WINDOW SILL  
3" = 1'-0"

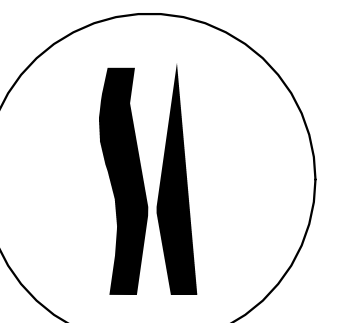


3 PLAN SECTION - WINDOW JAMB  
3" = 1'-0"



6 PLAN SECTION - DOOR JAMB  
3" = 1'-0"

Scale : As indicated



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ISSUE RECORD	DATE
1 HAWP APPLICATION SUBMISSION	11/29/23

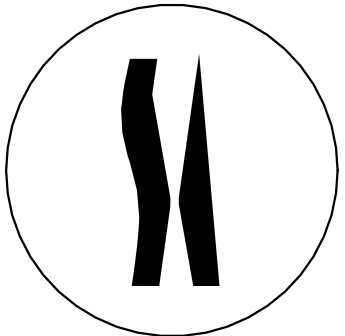
PROJECT **HAMMER HILL DAYCARE CENTER**  
23312 FREDERICK RD  
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PROJECT # 10272

DRAWING INFORMATION

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SHEET  
EXTERIOR FENESTRATIONS SCHEDULE

A-603



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EXTERIOR FINISH SCHEDULE									
MARK	SURFACE	MANUFACTURER	TYPE	PRODUCT	COLOR	FINISH	SIZE	REMARKS	LOCATION
FENCING									
F1	STEEL PERIMETER FENCING	AMERSTAR	MAJESTIC	MONTAGE PLUS	BLACK	STEEL	6" HIGH, 4" AIR GAPS	3 RAIL PANELS, STANDARD BOTTOM RAIL	BUILDING AND PLAYGROUND PERIMETER
FOUNDATION WALLS									
FH1	CONCRETE FOUNDATION WALL	-	-	-	GREY	SMOOTH	SEE X	-	EXTERIOR FOUNDATION WALL FOR BUILDING
FH2	HIGH-AGGREGATE CONCRETE	-	-	-	-	HIGH-AGGREGATE	SEE X	-	RAMP WALLS AND RETAINING WALLS. SEE X
PAVING									
A1	ASPHALT PAVING	-	-	-	-	-	-	-	PARKING LOT. SEE X
C1	BUILDING CONCRETE FOUNDATION SLAB	-	-	-	-	-	-	-	BUILDING FOUNDATION, PERIMETER AND ENTRANCES. SEE X
C2	CONCRETE RAMP	-	-	-	-	-	-	-	SOUTH ENTRANCE FROM SPRINGTOWN ROAD. SEE X
ROOFING									
EG1	EXTERIOR GYPSUM SHEATHING	-	-	-	-	-	-	-	SOFFIT FINISH AT EXTERIOR RAFTERS
WH1	STANDING SEAM METAL ROOF	ENGLERT	INTEGRAL SNAP-LOCK	A1500 METAL ROOF SYSTEM	CHARCOAL GREY	GALVALUME	24" x 1.5" x ..."	WITH RIBS TO PREVENT OIL CANNING	BUILDING ROOF AND DOOR AWNINGS
WR2	ALUMINUM LOUVER SCREEN	GREENHECK	NON-DRAINABLE BLADE LOUVER	ESK-402	-	ALUMINUM MILL	TWO 96" x 64" x 4" PER ROW	STRUCTURAL REINFORCING MEMBERS REQUIRED FOR LARGE OPENINGS	LOUVERS ON EAST ROOF THAT SCREEN MECHANICAL. SEE X
WS3	METAL COPING WITH DRIP EDGE	-	-	-	MATCH CHARCOAL GREY	-	-	SELECTED BY CONTRACTOR TO MATCH MR1 STANDING SEAM METAL ROOF COLOR/FINISH	TOP OF PARAPET AT ALL FLAT ROOFS
RF1	TPD ROOFING SYSTEM	JOHNS MANVILLE	TPD ROOFING SYSTEM	-	LIGHT GRAY	ULTRAVIOLET-RESISTANT THERMOPLASTIC POLYOLEFIN	-	SEE STRUCTURAL	FLAT ROOF
SIDING									
WD1	NATURAL WOOD SHIPLAP SIDING	DELTA MILLWORKS	MOJAVE THERMAL OAK	SMOOTH	NATURAL (BROWN)	HD CLEAR	1" x 6" x 144"	FIRE RATING: SFM 12-7A-1	TYPICAL EXTERIOR HORIZONTAL WOOD SIDING
WD2	NATURAL WOOD TRIM	DELTA MILLWORKS	MOJAVE THERMAL OAK	SMOOTH	NATURAL (BROWN)	HD CLEAR	VARIES	FIRE RATING: SFM 12-7A-1	TYPICAL EXTERIOR WOOD TRIM AT STRUCTURAL MEMBERS
WS3	SHOP FABRICATED 2" x ... WOOD SCREEN SYSTEM	-	-	-	-	-	48" x 96" x 3"	BOLTED TO CANOPY'S HSS COLUMNS. SEE STRUCTURAL	SCREEN WALL BETWEEN CANOPY'S STEEL COLUMNS ON EAST AND WEST FACADES
FC1	PAINTED FIBER CEMENT SIDING, SQUARE CHANNEL	JAMES HARDIE	HARDIE ARTISAN SIDING	SQUARE CHANNEL SIDING	PTB PAINT - GRAY	PRIMED FOR PAINT	144" x 10.25" x .625"	-	TYPICAL EXTERIOR HORIZONTAL FIBER CEMENT SIDING
FC2	PAINTED FIBER CEMENT SIDING, BOARD AND BATTEN	JAMES HARDIE	HARDIE PANEL VERTICAL SIDING	SMOOTH	PTB PAINT - GRAY	PRIMED FOR PAINT	120" x 48" x 0.312"	SPACE VERTICAL BATTENS 12" ON CENTER. FULL PAINT COVERAGE. APPLY MIN TWO (2) COATS	EXTERIOR VERTICAL SIDING UNDER ROOF CANOPIES LEVEL ON EAST AND WEST FACADES AT GROUND LEVEL
			HARDIE TRIM BOARDS	SMOOTH	PTB PAINT - GRAY	PRIMED FOR PAINT	144" x 5.5" x 0.75"		
FC3	PAINTED FIBER CEMENT SIDING, BOARD WITHOUT BATTEN	JAMES HARDIE	HARDIE PANEL VERTICAL SIDING	SMOOTH	PTB PAINT - GRAY	PRIMED FOR PAINT	120" x 11.25" (E/U) x 0.312"	SPACE GAPS BETWEEN BOARDS 12" ON CENTER. GAPS TO ALIGN WITH AND MATCH FC2 BATTEN WIDTH. FULL PAINT COVERAGE. APPLY MIN TWO (2) COATS	EXTERIOR VERTICAL SIDING UNDER ROOF CANOPIES ON EAST AND WEST FACADES AT PARAPET LEVEL FOR RTU VENTING
STRUCTURAL FRAMING									
WD-4	WOOD COLUMNS AND BEAMS	-	-	-	-	-	-	SEE STRUCTURAL	EXTERIOR WOOD COLUMNS AT EAST AND WEST FACADES SCREEN WALL STRUCTURE
TRIM									
TR1	PAINTED PVC TRIM	AZEK EXTERIORS	PVC SHEET	PAINTPRO TECHNOLOGY	PTW PAINT - WHITE	-	VARIES	-	TYPICAL SIDING TRANSITIONS, WINDOWS AND DOORS
TR2	PAINTED PVC TRIM AT WOOD	AZEK EXTERIORS	PVC SHEET	PAINTPRO TECHNOLOGY	PTB PAINT - DARK GRAY	-	VARIES	-	SIDING TRANSITIONS BETWEEN WD1 AND FC1

EXTERIOR PAINT SCHEDULE									
MARK	SURFACE	MANUFACTURER	TYPE	PRODUCT	COLOR	FINISH	SIZE	REMARKS	LOCATION
PAINT									
PT7	PAINT - WHITE	SHERWIN WILLIAMS	-	-	GREEK VILLA SW 751	-	-	-	TYPICAL SIDING TRANSITIONS UNLESS OTHERWISE NOTED, WINDOW/DOOR/TRIM PAINT
PT8	PAINT - GRAY	SHERWIN WILLIAMS	-	-	USEFUL GRAY SW 7050	-	-	-	SIDING PAINT AT FC1
PT9	PAINT - DARK GRAY	SHERWIN WILLIAMS	-	-	PEPPERCORN SW 7674	-	-	-	SIDING TRANSITIONS BETWEEN WD1 AND FC1, WINDOW/DOOR/TRIM PAINT AT WD1 ONLY

ISSUE RECORD	DATE
1 HAWP APPLICATION SUBMISSION	11/29/23

PROJECT **HAMMER HILL DAYCARE CENTER**  
 23312 FREDERICK RD  
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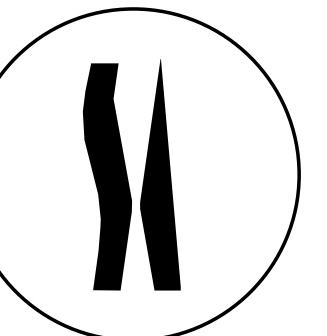
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EXTERIOR FINISH SCHEDULE

A-605

Scale : 12" = 1'-0"



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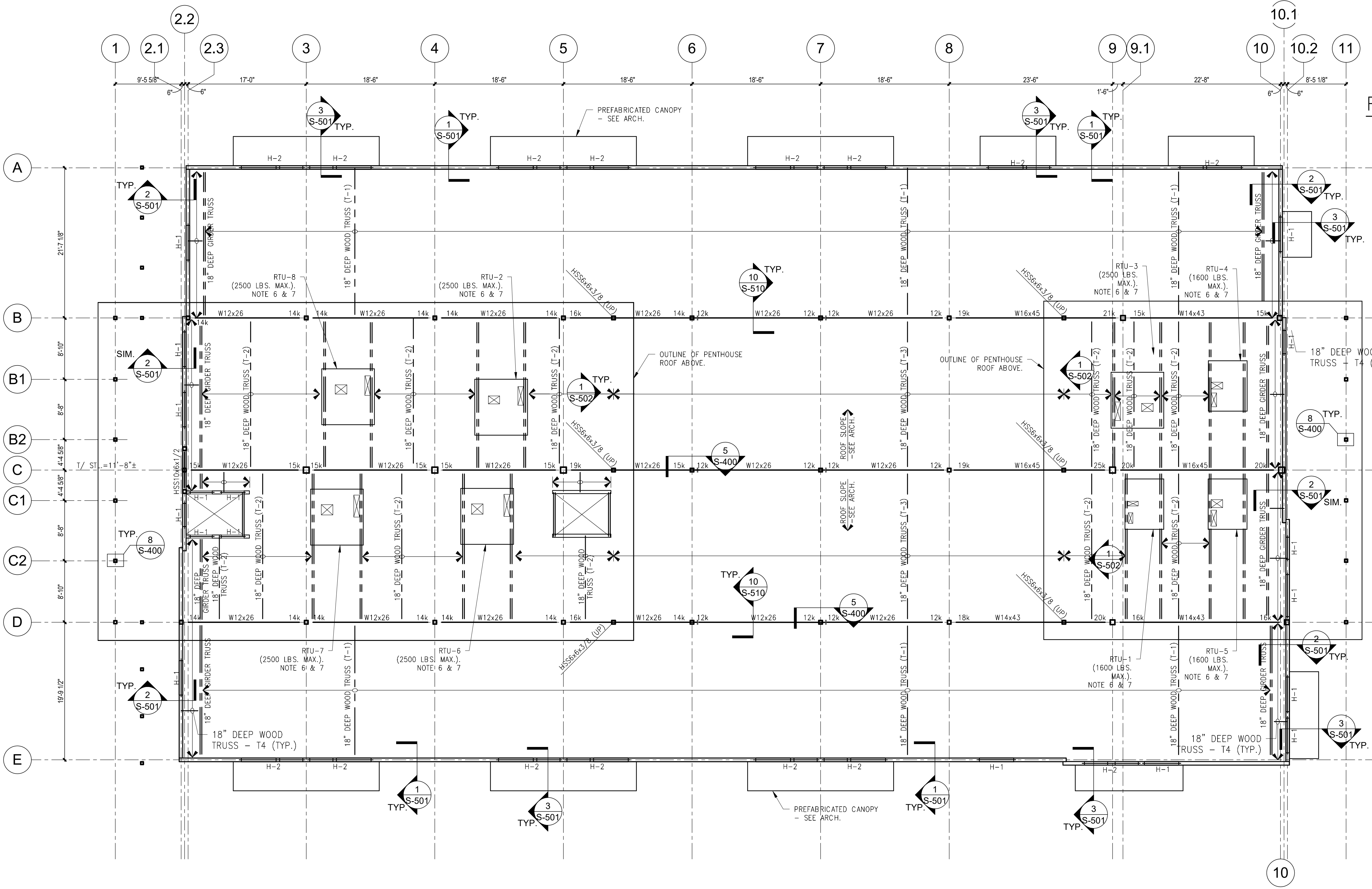
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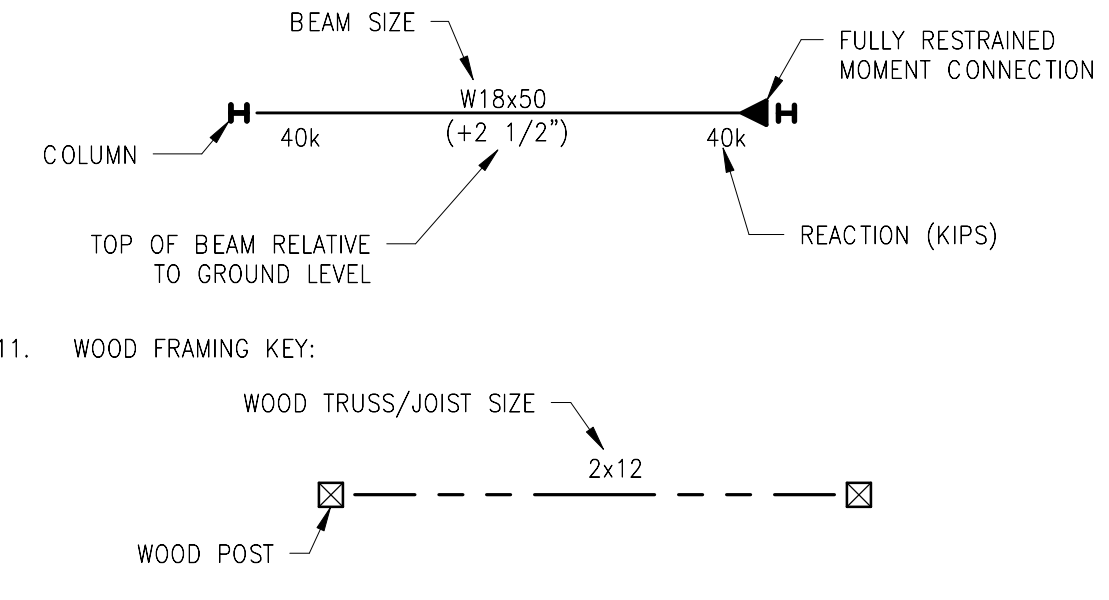
# ROOF FRAMING PLAN

1/8" = 1'-0"



### PLAN NOTES - ROOF

- TOP OF STRUCTURAL STEEL ELEVATION = VARIES - SEE PLAN
- TOP OF STEEL ELEVATION OF BEAMS PARALLEL TO TRUSSES IS TO MATCH ELEVATION AND SLOPE OF JOISTS BETWEEN SUPPORTING GIRDERS U.N.O.
- 19/32" APA RATED ROOF SHEATHING - SEE 7/S-500 FOR ATTACHMENT DETAILS
- ALL TRUSSES ARE SPACED EVENLY BETWEEN COLUMN LINES U.N.O. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND M/E/P DRAWINGS.
- WEIGHTS OF MECHANICAL EQUIPMENT NOTED ARE AS PROVIDED BY GPI MECHANICAL. G.C. SHALL VERIFY THAT THE TOTAL OPERATING WEIGHT OF THE ACTUAL EQUIPMENT PURCHASED (INCLUDING ALL ACCESSORIES, CURB, ETC.) DO NOT EXCEED THE VALUE NOTED IN THE PLAN. WEIGHTS IN EXCESS OF THOSE LISTED MAY REQUIRE SUPPLEMENTAL SUPPORT/REINFORCING. CONTRACTOR TO COORDINATE FINAL EQUIPMENT WEIGHT WITH WOOD TRUSS DESIGNER PRIOR TO SUBMISSION OF TRUSS SHOP DRAWINGS.
- PROVIDE CONTINUOUS DOUBLE BLOCKING BENEATH ALL UNIT CURBS.
- SEE S-001 & S-002 FOR GENERAL NOTES.
- SEE S-400'S & S-500'S FOR TYPICAL DETAILS.
- STEEL FRAMING KEY:



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PROJECT **CLARKSBURG DAYCARE CENTER**  
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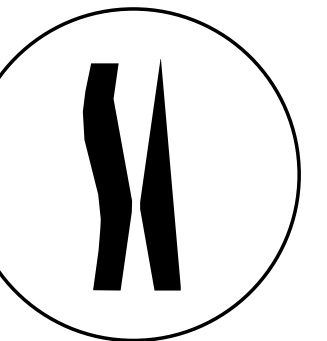
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ROOF FRAMING PLAN

# S-101





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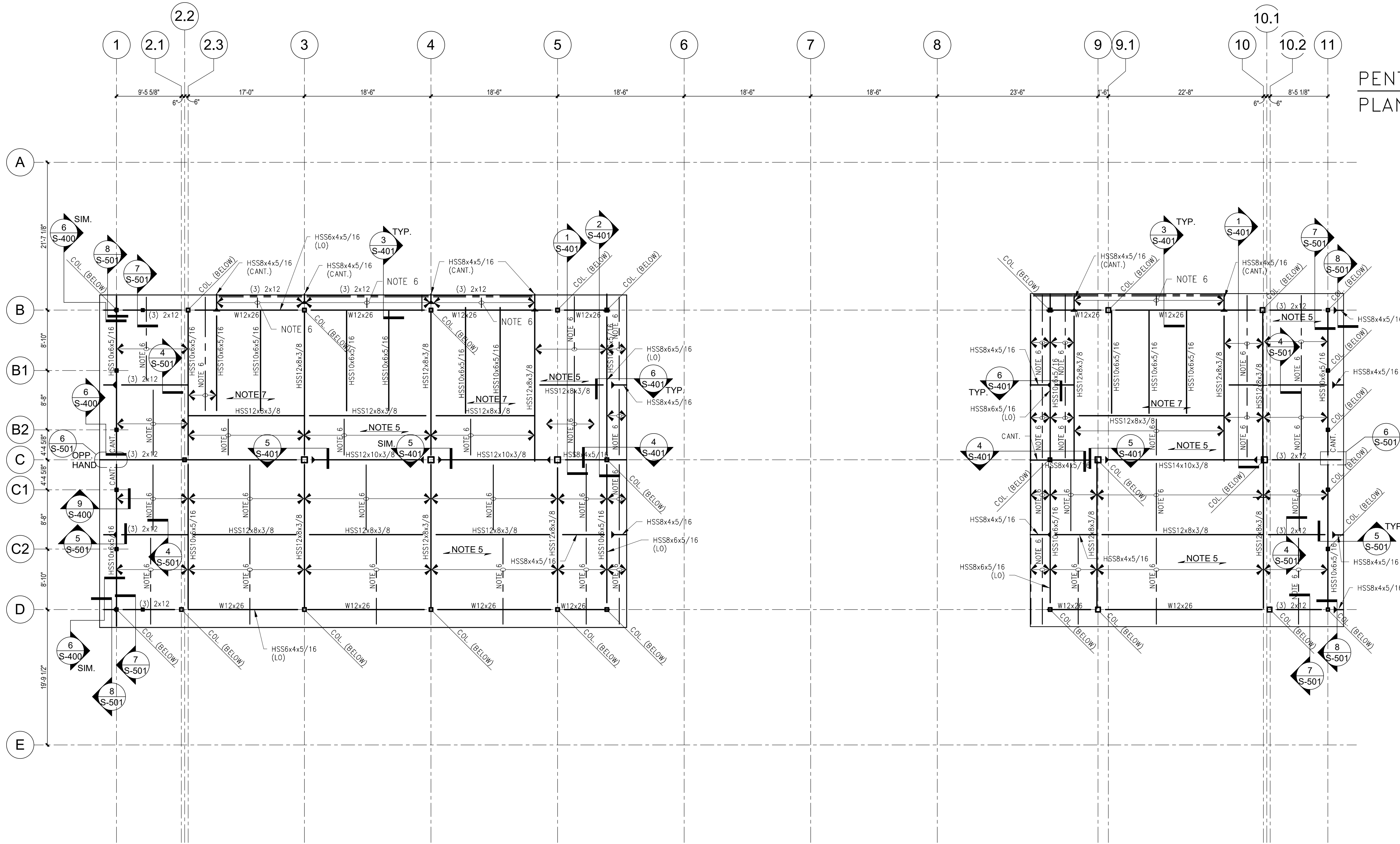


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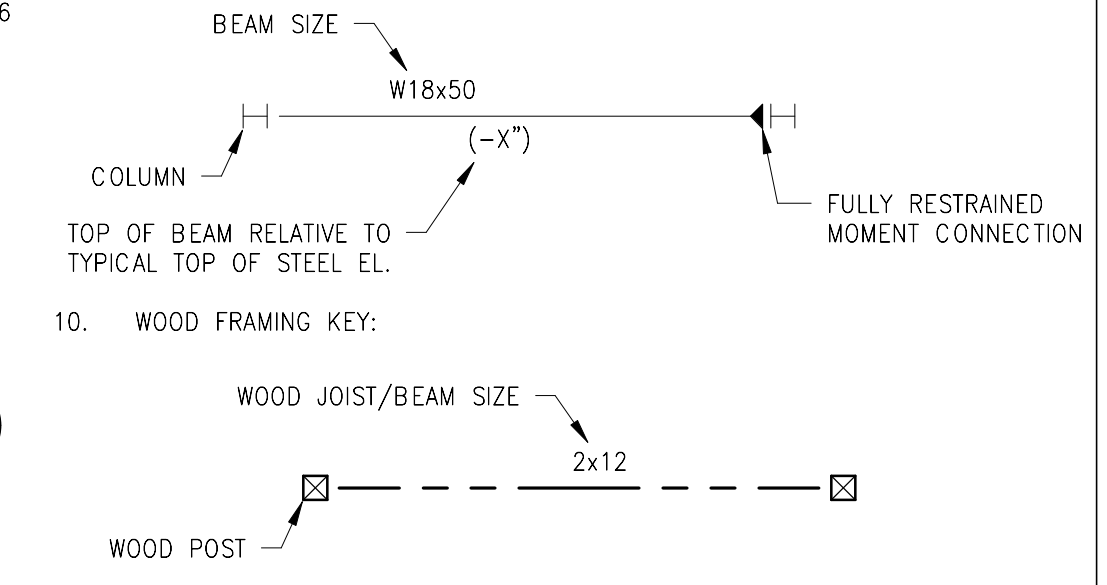
# PENTHOUSE ROOF FRAMING PLAN

1/8" = 1'-0"



### PLAN NOTES

1. ARCHITECTURAL INFORMATION IS SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING, FINISHES, SLOPES, ETC.
2. SEE DETAILS AND ARCHITECT FOR TOP OF ROOF FRAMING ELEVATIONS.
3. ALL JOISTS ARE EVENLY SPACED U.N.O. - SEE PLAN FOR SPACING.
4. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS.
5. 19/32" APA MARINE RATED ROOF SHEATHING - SEE 7/S-500 FOR ATTACHMENT DETAILS.
6. 2x12 PRESSURE TREATED RAFTER AT 16" O.C. MAX.
7. PREMANUFACTURED METAL LOUVER - DESIGN AND ANCHORAGE TO STRUCTURE BY MANUFACTURER/SUPPLIER.
8. ALL PENTHOUSE STEEL AND EXPOSED STEEL TO BE HOT-DIPPED GALVANIZED FINISHED. REPAIR ALL WELDING TO GALVANIZED FINISHES PER ASTM A780.
9. SEE S-001 & S-002 FOR GENERAL NOTES.
10. SEE S-400's & S-500's FOR TYPICAL DETAILS.
11. STEEL FRAMING KEY:



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PENTHOUSE ROOF FRAMING PLAN

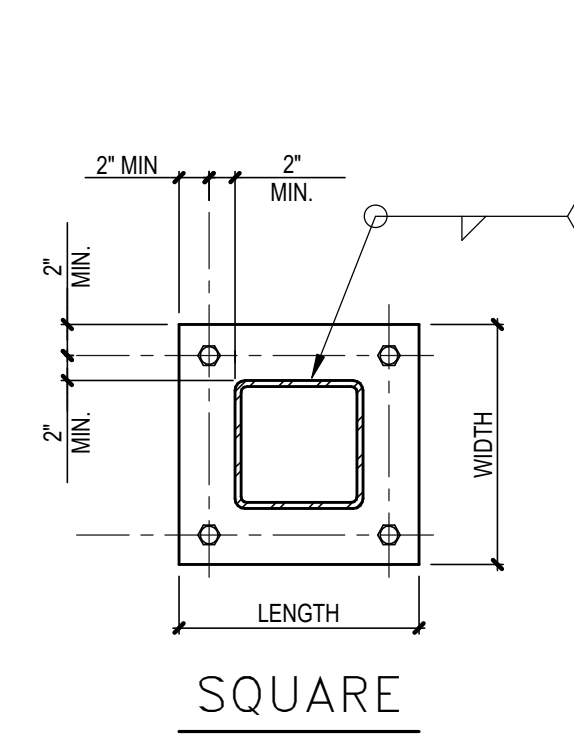
# S-102

COLUMN BASE PLATE SCHEDULE						
MARK	BASE PLATE SIZE			ANCHOR BOLT		REMARKS
	WIDTH	LENGTH	THICKNESS	NO.	SIZE *LENGTH	
BP-1	13"	13"	3/4"	4	3/4" <sup>9</sup> 8"	NOTE 1
BP-2	14"	14"	3/4"	4	3/4" <sup>9</sup> 8"	----
BP-3	16"	16"	3/4"	4	3/4" <sup>9</sup> 8"	----
BP-4	18"	18"	1"	4	3/4" <sup>9</sup> 8"	----

\* LENGTH INDICATED IS MINIMUM EMBEDMENT.

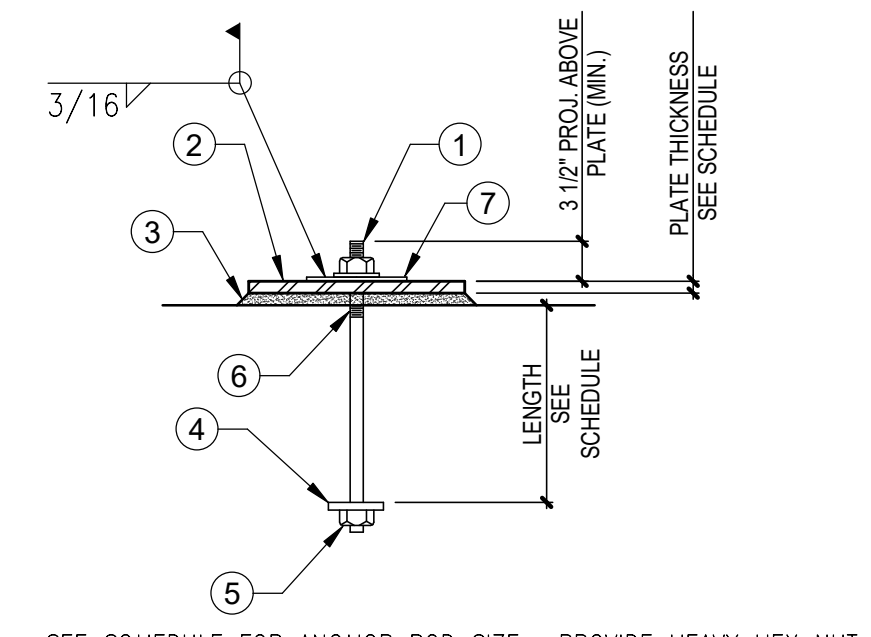
1. PROVIDE PLATE WASHERS IF USING OVERSIZE HOLES.

1 COLUMN BASE PLATE SCHEDULE  
N.T.S.



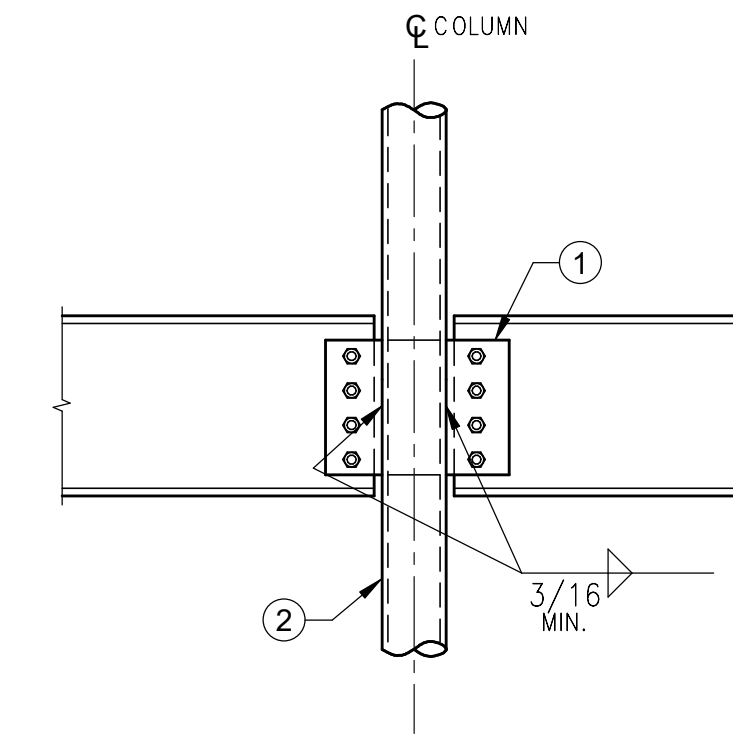
1. SEE SCHEDULE FOR PLATE & ANCHOR ROD SIZES.
2. BASE PLATE HOLE DIAMETER SHALL NOT EXCEED MAXIMUM PER AISC MANUAL TABLE 14-2.
3. PROVIDE TEMPLATES FOR FIELD USE TO SET ANCHOR RODS IN FOUNDATION.

2 COLUMN BASE PLATE DETAIL  
N.T.S.



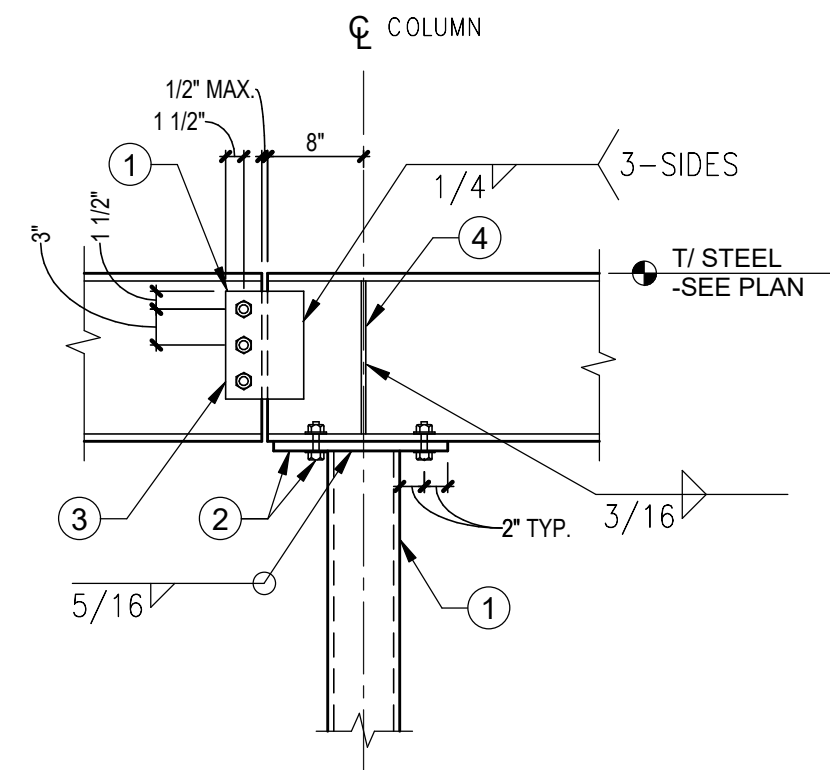
1. SEE SCHEDULE FOR ANCHOR ROD SIZE. PROVIDE HEAVY HEX NUT AND HARDENED WASHER (WASHER TO MEET MINIMUM SIZE PER AISC MANUAL TABLE 14-2 FOR ROD AND MAX. HOLE SIZE SHOWN).
2. BASE PLATE PER SCHEDULE (LEVELING PLATE - NOT SHOWN - MAY BE USED AT CONTRACTORS OPTION WITH ENGINEERS APPROVAL).
3. 1 1/2" NON-SHRINK GROUT.
4. HEAVY HEX NUT AND HARDENED WASHER.
5. TACK WELD NUT TO WASHER (FY = 36 KSI RODS ONLY). FILE THREADS OR USE DOUBLE NUT TO PREVENT NUT BACKOFF.
6. PROVIDE 6" (MINIMUM) OF THREADING AT END OF ROD.
7. PL3x3x5/16 PLATE WASHER.

3 BASE PLATE SETTING DETAIL  
N.T.S.



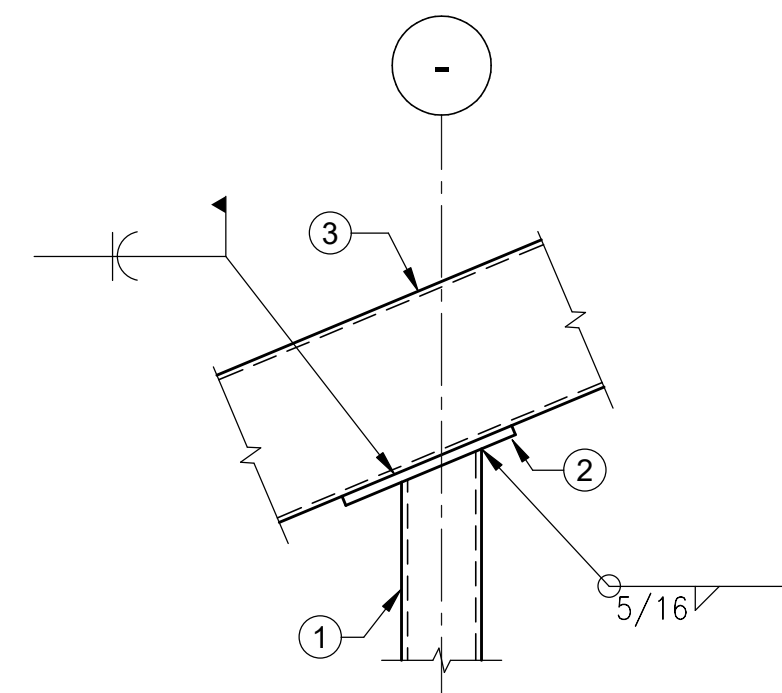
1. SINGLE PLATE CONN. FOR REACTION SHOWN ON PLANS (5/16" MIN.).
2. HSS COLUMN - SEE PLAN.

4 BEAM TO COLUMN CONNECTION  
N.T.S.



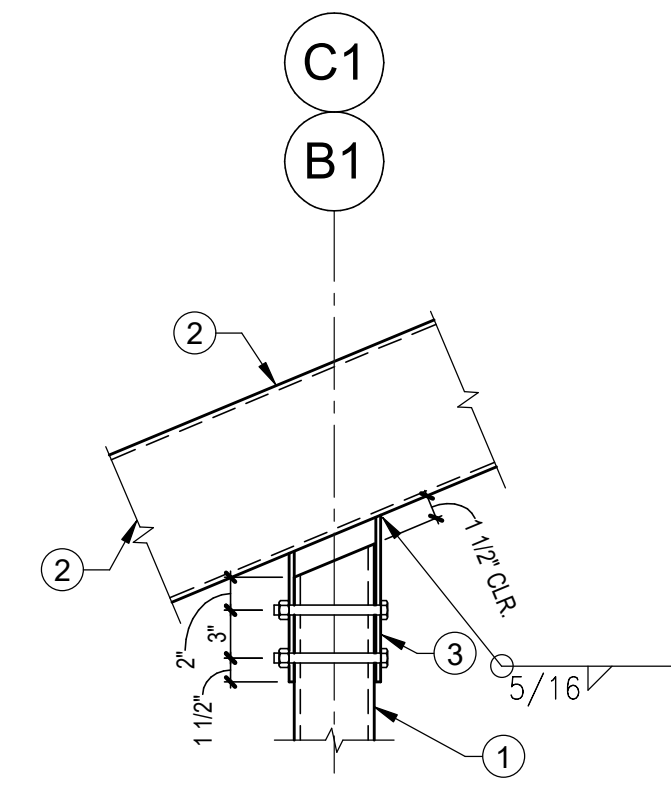
1. HSS COLUMN - SEE PLAN.
2. PL 3/4"x7"x1'-2" WITH (4) 3/4" Ø ASTM A325-N BOLTS.
3. PL 5/16"x6 1/2"x9". WITH (3) 3/4" Ø ASTM A325-N BOLTS.
4. 3/8" STIFFENER PLATE EACH SIDE OF COLUMN WEB.

5 BEAM OVER COLUMN CONNECTION  
3/4" = 1'-0"



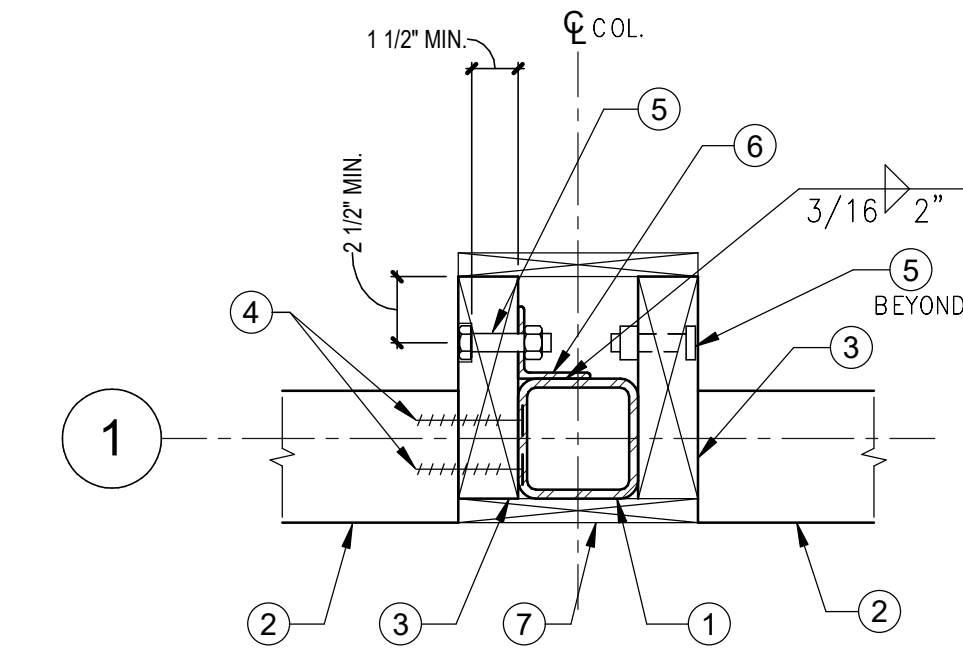
1. STEEL COLUMN - SEE PLAN.
2. PL5/8"x7"x0'-10" COLUMN CAP PLATE.
3. STEEL BEAM - SEE PLAN.

6 STEEL BEAM TO COL CONNECTION  
1" = 1'-0"



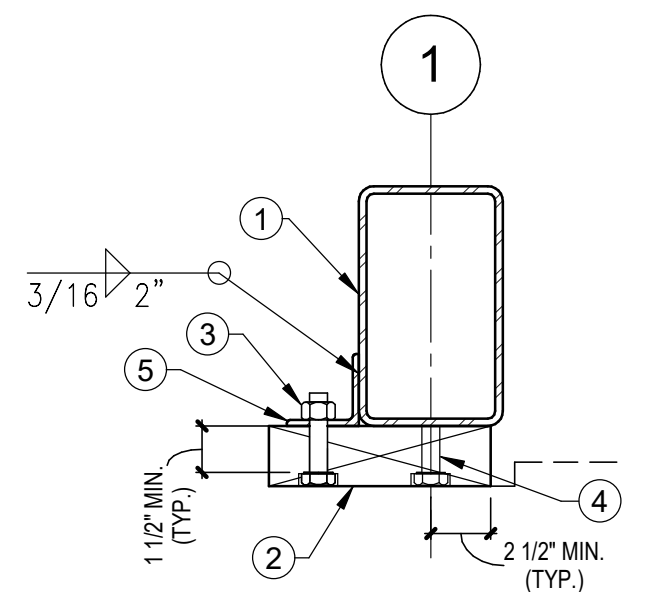
1. STEEL COLUMN - SEE PLAN.
2. STEEL BEAM - SEE PLAN.
3. PL 5/16"x5" WIDE PLATE, EACH SIDE OF COLUMN WITH (2) 3/4" Ø THROUGH BOLTS CENTERED IN VERTICALLY LONG-SLOTTED HOLES.

7 STEEL POST TOP CONNECTION  
1" = 1'-0"



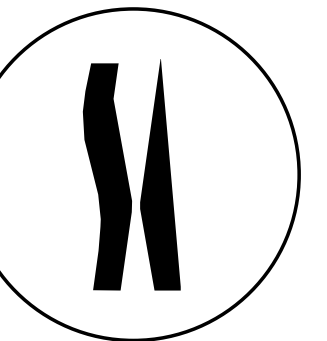
1. STEEL COLUMN - SEE PLAN.
2. ASH HORIZONTAL SLATS (3x6 MINIMUM SIZE) - SEE ARCH. FOR ACTUAL SIZE, SPACING, AND ADDITIONAL INFORMATION.
3. ASH CONTINUOUS VERTICAL MEMBER (3x10 MINIMUM SIZE) - SEE ARCH. FOR ACTUAL SIZE AND ADDITIONAL INFORMATION.
4. 2#12 SCREWS BETWEEN VERTICAL MEMBER AND EACH HORIZONTAL SLAT.
5. 5/8" Ø THROUGH BOLT AT 4'-0" O.C. MAX. COUNTER SINK HEAD OF BOLT AS INDICATED. SEE ARCH. FOR PATCHING/COVERAGE REQUIREMENTS.
6. L3x3x1/4x0'-4" AT EACH THROUGH BOLT.
7. ASH COVER MEMBER - SEE ARCH. FACE NAIL TO 3x10 AS REQUIRED.

8 SCREENWALL COLUMN WRAP DETAIL  
1 1/2" = 1'-0"



1. SLOPED STEEL BEAM - SEE PLAN.
2. ASH CONTINUOUS PERIMETER MEMBER (3x10 MINIMUM SIZE) - SEE ARCH. FOR ACTUAL SIZE AND ADDITIONAL INFORMATION.
3. 5/8" Ø THROUGH BOLT AT 4'-0" O.C. MAX. COUNTER SINK HEAD OF BOLT AS INDICATED. SEE ARCH. FOR PATCHING/COVERAGE REQUIREMENTS.
4. 5/8" Ø NELSON D2L WELDABLE THREADED ROD AT 4' O.C. (STAGGER WITH THREADED ROD PER NOTE 3)
5. L3x3x1/4x0'-4" AT EACH THROUGH BOLT.

9 SCREENWALL ANCHORAGE TO STEEL BEAM  
1 1/2" = 1'-0"



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ISSUE RECORD	DATE
PROGRESS SET	11/22/2023

PROJECT **CLARKSBURG DAYCARE CENTER**  
23100 STRINGTOWN RD  
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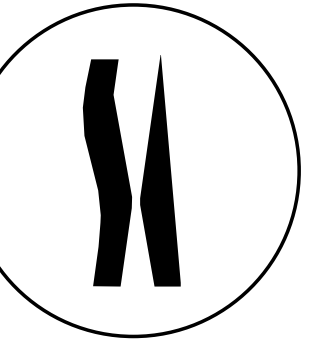
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TYPICAL STEEL FRAMING DETAILS

S-400

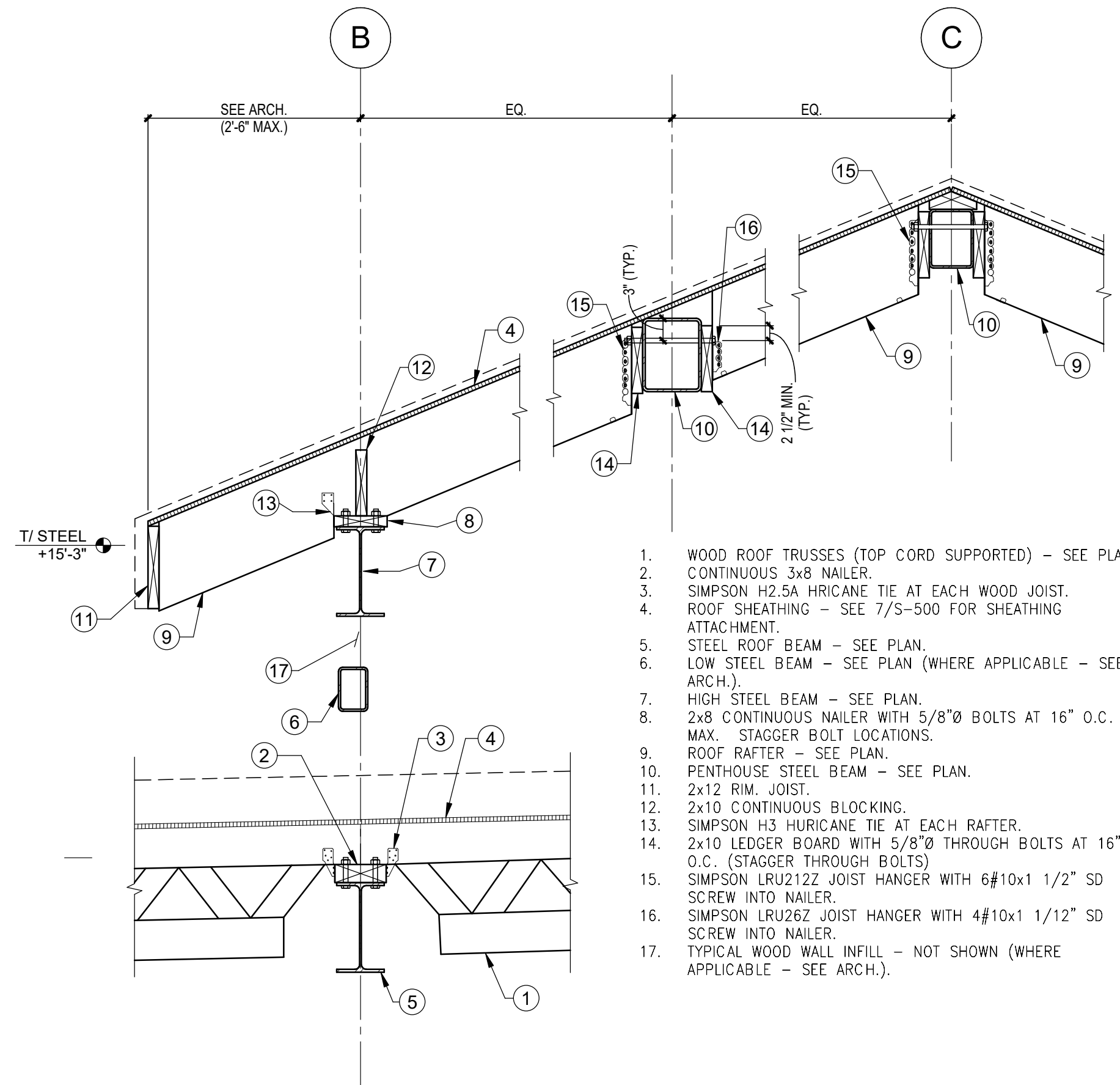


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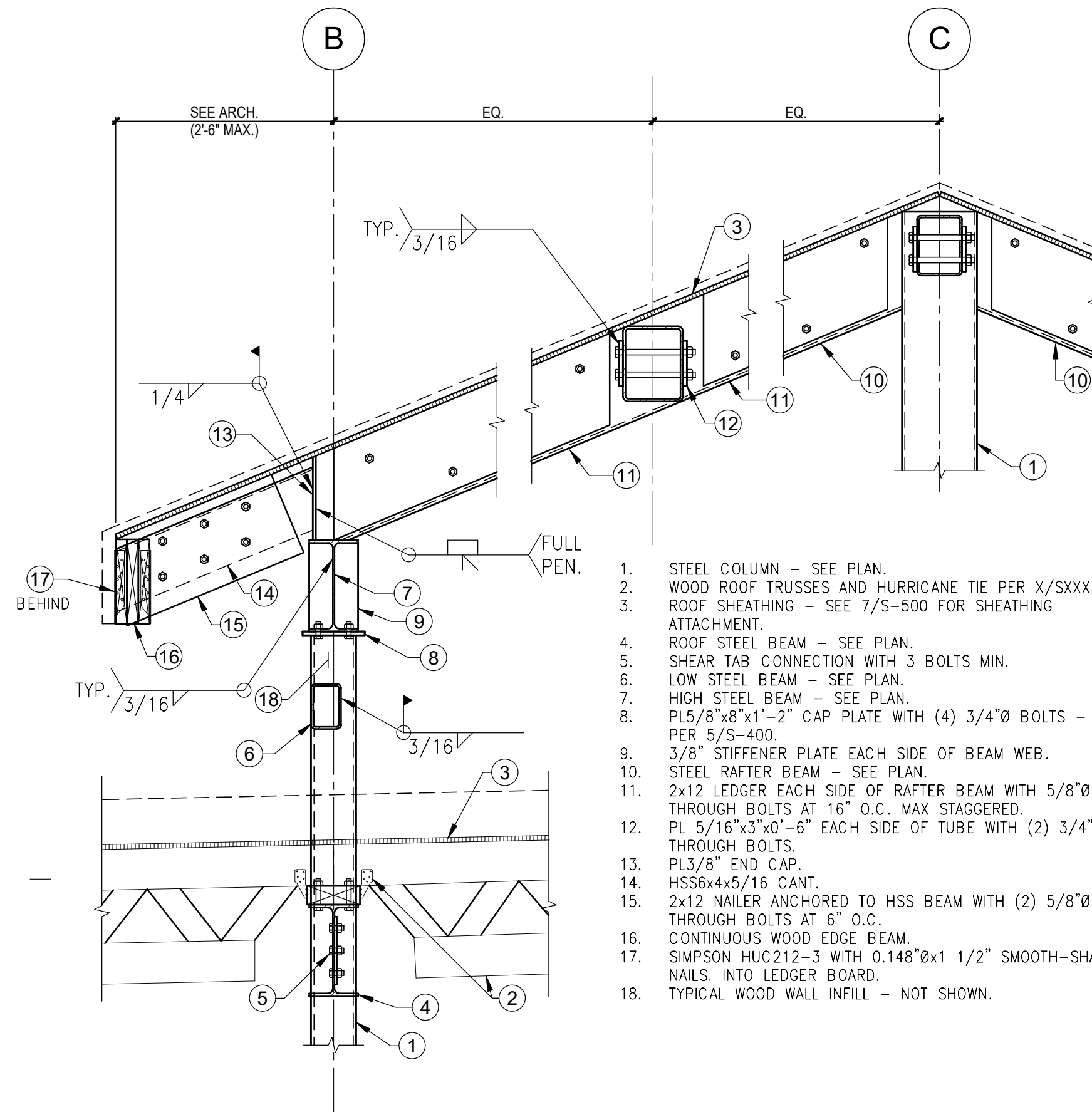


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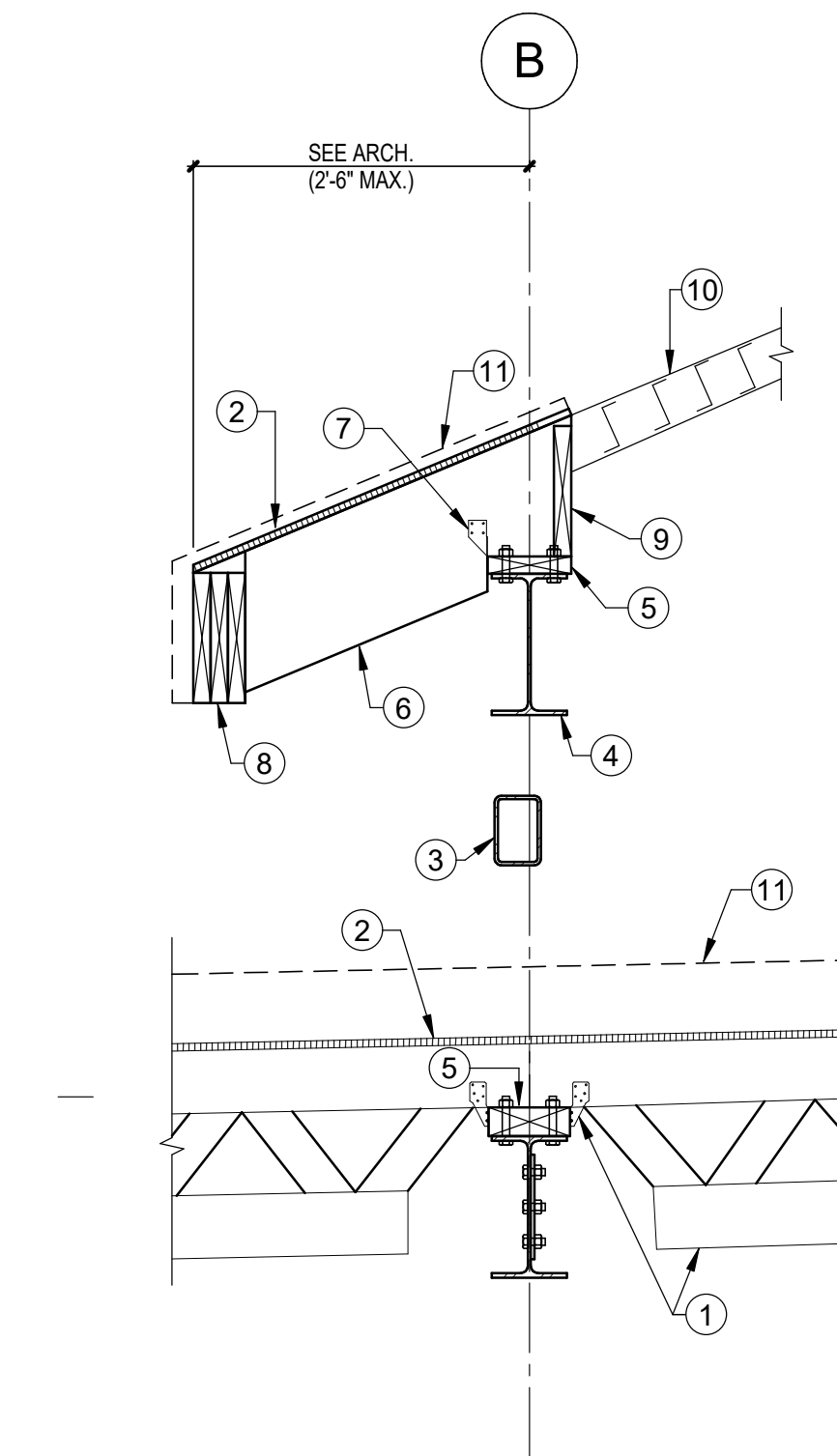
- WOOD ROOF TRUSSES (TOP CORD SUPPORTED) - SEE PLAN.
- CONTINUOUS 3x8 NAILER.
- SIMPSON H2.5A HURICANE TIE AT EACH WOOD JOIST.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- STEEL ROOF BEAM - SEE PLAN.
- LOW STEEL BEAM - SEE PLAN (WHERE APPLICABLE - SEE ARCH.).
- HIGH STEEL BEAM - SEE PLAN.
- 2x8 CONTINUOUS NAILER WITH 5/8"Ø BOLTS AT 16" O.C. MAX. STAGGER BOLT LOCATIONS.
- ROOF RAFTER - SEE PLAN.
- PENTHOUSE STEEL BEAM - SEE PLAN.
- 2x12 RIM JOIST.
- 2x10 CONTINUOUS BLOCKING.
- SIMPSON H3 HURICANE TIE AT EACH RAFTER.
- 2x10 LEDGER BOARD WITH 5/8"Ø THROUGH BOLTS AT 16" O.C. (STAGGER THROUGH BOLTS).
- SIMPSON LRU2122 JOIST HANGER WITH 6#10x1 1/2" SD SCREW INTO NAILER.
- SIMPSON LRU262 JOIST HANGER WITH 4#10x1 1/2" SD SCREW INTO NAILER.
- TYPICAL WOOD WALL INFILL - NOT SHOWN (WHERE APPLICABLE - SEE ARCH.).

1 PENTHOUSE STRUCTURE SECTION  
3/4" = 1'-0"



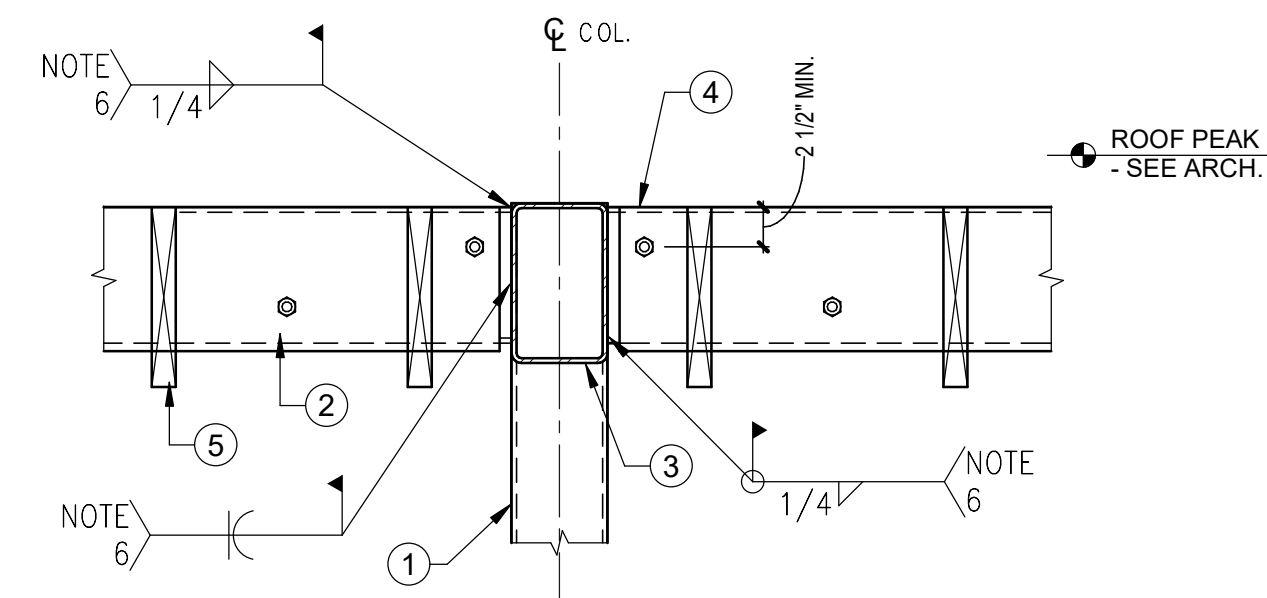
- STEEL COLUMN - SEE PLAN.
- WOOD ROOF TRUSSES AND HURICANE TIE PER X/SXXX.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- ROOF STEEL BEAM - SEE PLAN.
- SHEAR TAB CONNECTION WITH 3 BOLTS MIN.
- LOW STEEL BEAM - SEE PLAN.
- HIGH STEEL BEAM - SEE PLAN.
- PL 5/16"x1"-2" CAP PLATE WITH (4) 3/4"Ø BOLTS - SIM. PER 5/S-400.
- 3/8" STIFFENER PLATE EACH SIDE OF BEAM WEB.
- STEEL RAFTER BEAM - SEE PLAN.
- 2x12 LEDGER EACH SIDE OF RAFTER BEAM WITH 5/8"Ø THROUGH BOLTS AT 16" O.C. MAX STAGGERED.
- PL 5/16"x3"x0'-6" EACH SIDE OF TUBE WITH (2) 3/4"Ø THROUGH BOLTS.
- PL 3/8" END CAP.
- HSS6x4x5/16 CANT.
- 2x12 NAILER ANCHORED TO HSS BEAM WITH (2) 5/8"Ø THROUGH BOLTS AT 6" O.C.
- CONTINUOUS WOOD EDGE BEAM.
- SIMPSON HUC212-3 WITH 0.148"Øx1 1/2" SMOOTH-SHANK NAILS INTO LEDGER BOARD.
- TYPICAL WOOD WALL INFILL - NOT SHOWN.

2 PENTHOUSE STRUCTURE SECTION  
3/4" = 1'-0"



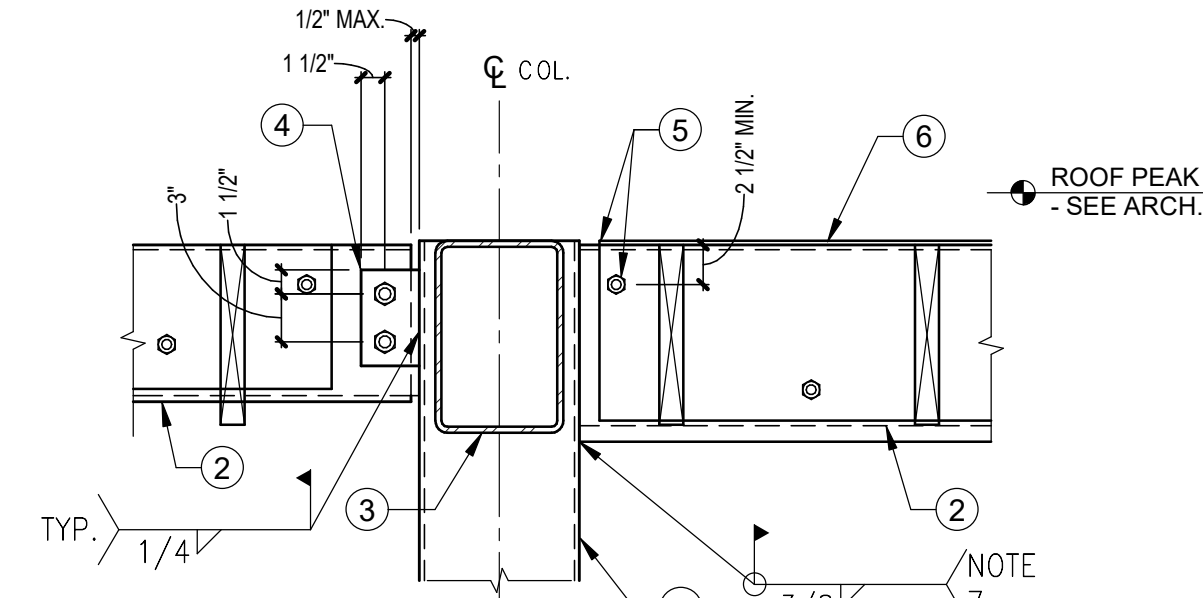
- WOOD ROOF TRUSSES AND HURICANE TIES PER 1/S-401.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- LOW STEEL BEAM - SEE PLAN (WHERE APPLICABLE - SEE ARCH.).
- HIGH STEEL BEAM - SEE PLAN.
- CONTINUOUS NAILER PER 1/S-401.
- WOOD RAFTER - SEE PLAN.
- HURICANE TIE PER 1/S-401.
- BUILT UP WOOD BEAM - SEE PLAN.
- CONTINUOUS 2x12 BLOCKING.
- LOUVER SYSTEM - SEE ARCH AND MECHANICAL FOR ADDITIONAL INFORMATION. ANCHORAGE TO BASE STRUCTURE BY SUPPLIER/MANUFACTURER.
- ROOF FINISHES - SEE ARCH.

3 PENTHOUSE AT LOUVER  
3/4" = 1'-0"



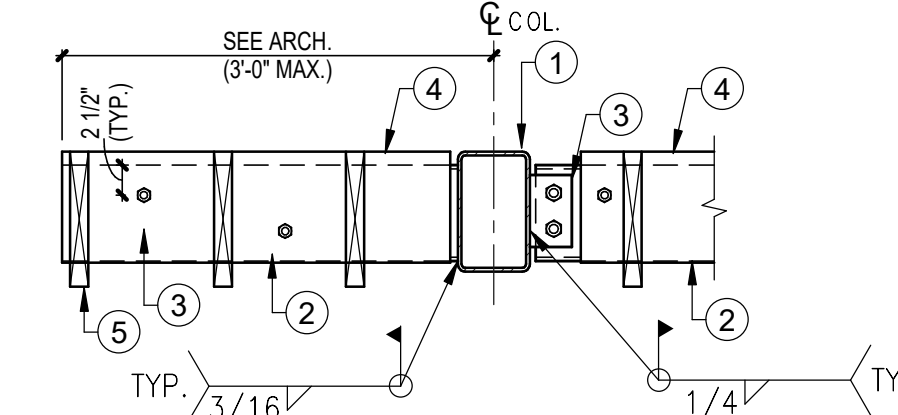
- STEEL COLUMN - SEE PLAN.
- STEEL BEAM - SEE PLAN.
- STEEL RAFTER BEAM - SEE PLAN.
- 2x12 NAILER ANCHORED TO HSS BEAM WITH 5/8"Ø THROUGH BOLTS AT 16" O.C. (STAGGERED).
- ROOF RAFTERS - SEE PLAN AND DETAILS FOR ADDITIONAL INFORMATION.
- REPAIR GALVANIZING FINISH PER ASTM A780

4 CANTILEVERED RIDGE BEAM  
DETAIL  
1" = 1'-0"



- STEEL COLUMN - SEE PLAN.
- STEEL BEAM - SEE PLAN.
- STEEL RAFTER BEAM - SEE PLAN.
- PL 5/16"x3 1/2"x 0'-6" WITH (2) 3/4"Ø THROUGH BOLTS.
- 2x12 NAILER ANCHORED TO HSS BEAM WITH 5/8"Ø THROUGH BOLTS AT 16" O.C. (STAGGERED).
- ROOF RAFTERS - SEE PLAN AND DETAILS FOR ADDITIONAL INFORMATION.
- REPAIR GALVANIZING FINISH PER ASTM A780

5 RIDGE MOMENT FRAME  
DETAIL  
1" = 1'-0"



- STEEL RAFTER BEAM - SEE PLAN.
- STEEL BEAM - SEE PLAN.
- PL 5/16"x3 1/2"x 0'-6" WITH (2) 3/4"Ø THROUGH BOLTS.
- 2x12 NAILER ANCHORED TO HSS BEAM WITH 5/8"Ø THROUGH BOLTS AT 16" O.C. (STAGGERED).
- ROOF RAFTERS - SEE PLAN AND DETAILS FOR ADDITIONAL INFORMATION.
- REPAIR GALVANIZING FINISH PER ASTM A780 - TYP.

6 PENTHOUSE OUTRIGGER  
DETAIL  
3/4" = 1'-0"

ISSUE RECORD DATE  
PROGRESS SET 11/22/2023

PROJECT **CLARKSBURG  
DAYCARE CENTER**  
23100 STRINGTOWN RD  
CLARKSBURG, MD 20871  
2300171.00

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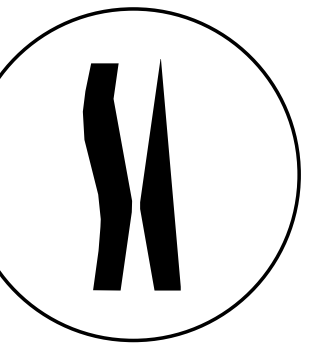
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STEEL FRAMING DETAILS

S-401

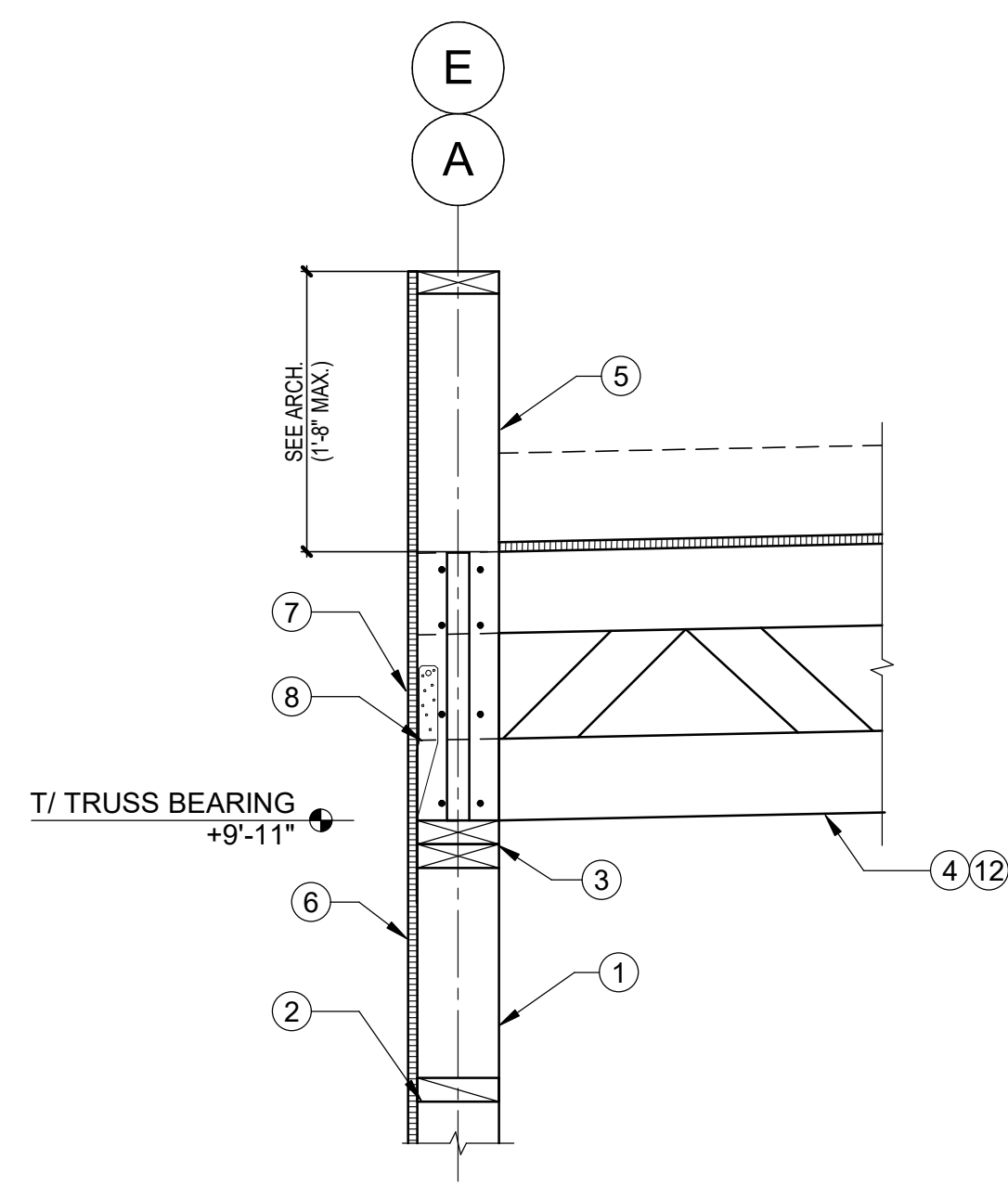


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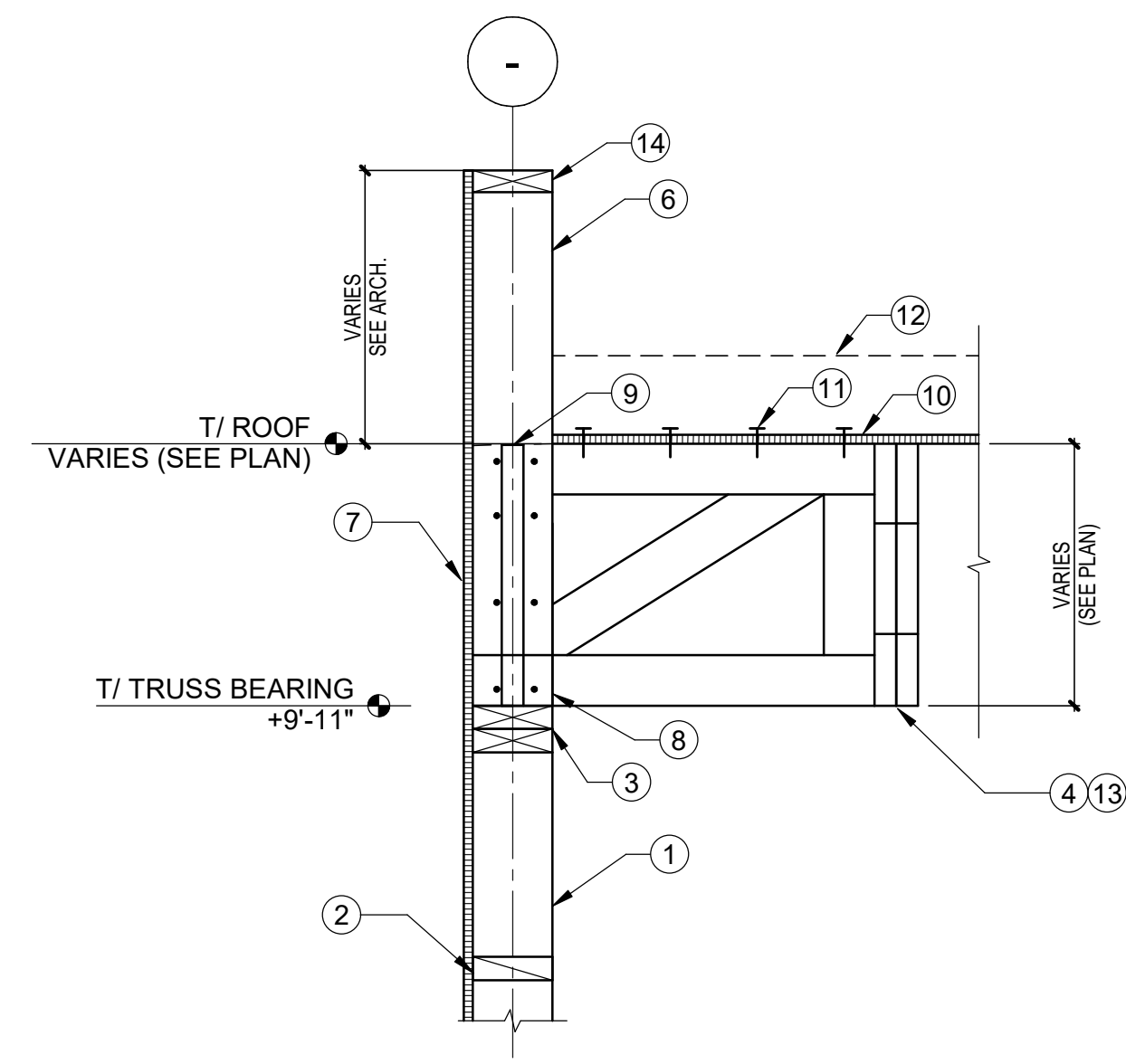
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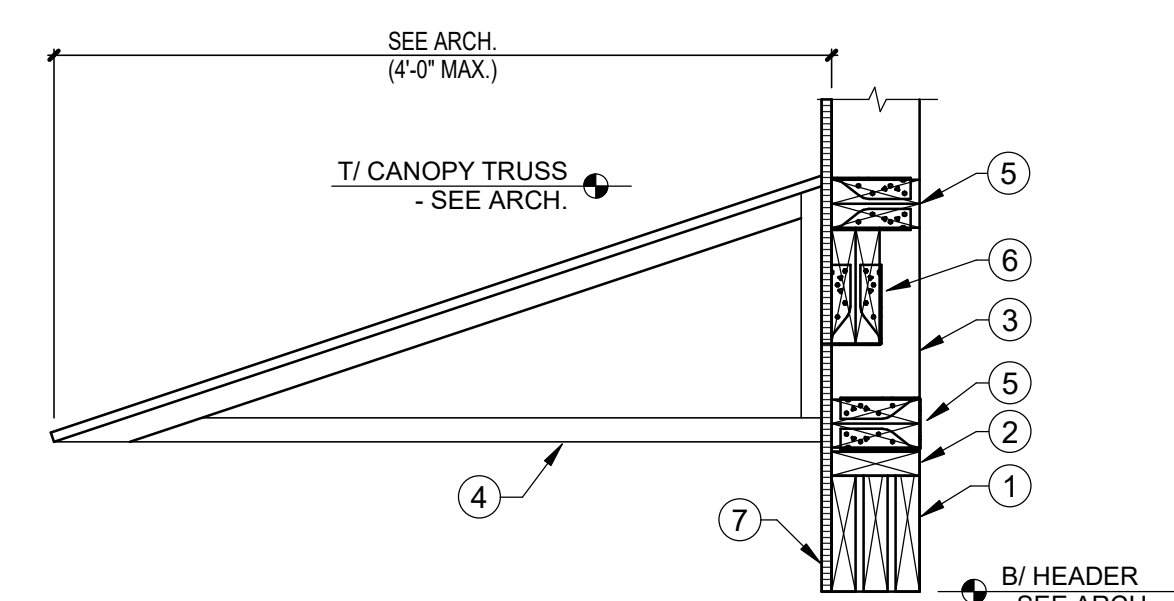
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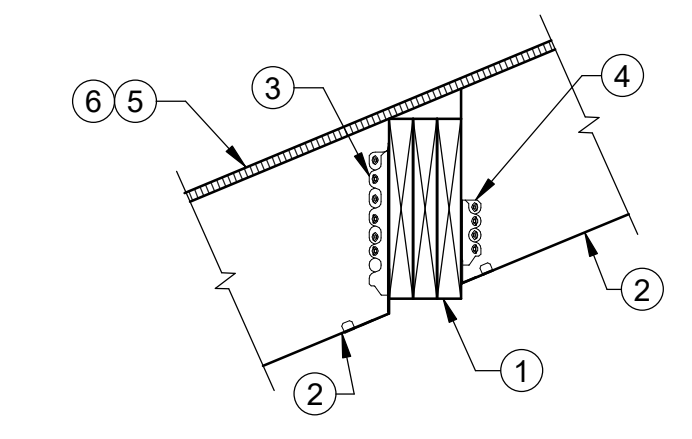
- 2x6 STUD WALL CONTINUOUS TO UNDERSIDE OF ROOF TRUSSES. LOCATE STUDS DIRECTLY BENEATH ROOF TRUSSES - SEE PLANS AND DETAILS FOR ADDITIONAL INFORMATION.
- 2x6 CONTINUOUS SOLID BLOCKING AT 4'-0" O.C. MAX. VERTICALLY.
- DOUBLE 2x6 TOP PLATE.
- PREMANUFACTURED ROOF TRUSSES AT 24" O.C. TO BE LOCATED ABOVE 2x STUDS BELOW - SEE SHEET S-510 FOR TRUSS LOADING REQUIREMENTS. TRUSS END VERTICAL TO BE 2x6 MINIMUM.
- 2x6 PARAPET WALL LAPPED WITH TRUSS END VERTICAL. PROVIDE (2) 16d NAILS AT 6" O.C. ALONG LENGTH OF TRUSS END VERTICAL. AT CONTRACTOR'S OPTION PARAPET WALL CAN BE BUILT INTEGRAL WITH TRUSS END VERTICAL.
- 5/8" NOMINAL PLY SHEATHING. SEE TYPICAL DETAILS FOR NAILING REQUIREMENTS AND GENERAL NOTES FOR GRADE. PLY SHEETS TO BE CONTINUOUS OVER FACE OF WOOD STUDS AND PARAPET WALL ABOVE.
- SIMPSON HTS16 HURRICANE TIE AT EACH TRUSS. ATTACH DIRECTLY TO TRUSS.
- TRUSS HEEL BLOCKING - PER DETAIL 9/S-510.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- ROOF FINISHES - SEE ARCH.
- SEE 5/S-510 FOR BOTTOM CORD BRACING REQUIREMENTS.



- 2x6 STUD WALL CONTINUOUS TO UNDERSIDE OF ROOF TRUSSES. LOCATE STUDS DIRECTLY BENEATH ROOF TRUSSES - SEE PLANS AND DETAILS FOR ADDITIONAL INFORMATION.
- 2x6 CONTINUOUS SOLID BLOCKING AT 4'-0" O.C. MAX. VERTICALLY.
- DOUBLE 2x6 TOP PLATE.
- PREMANUFACTURED ROOF TRUSSES AT 24" O.C. TO BE LOCATED ABOVE 2x STUDS BELOW - SEE SHEET S-510 FOR TRUSS LOADING REQUIREMENTS. TRUSS END VERTICAL TO BE 2x6 MINIMUM.
- ROOF GIRDER TRUSS AT FIRST INTERIOR TRUSS PARALLEL TO EXTERIOR WALL.
- 2x6 PARAPET WALL LAPPED WITH TRUSS END VERTICAL. PROVIDE (2) 16d NAILS AT 6" O.C. ALONG LENGTH OF TRUSS END VERTICAL. AT CONTRACTOR'S OPTION PARAPET WALL CAN BE BUILT INTEGRAL WITH TRUSS END VERTICAL.
- 5/8" NOMINAL PLY SHEATHING. SEE TYPICAL DETAILS FOR NAILING REQUIREMENTS AND GENERAL NOTES FOR GRADE. PLY SHEETS TO BE CONTINUOUS OVER FACE OF WOOD STUDS AND PARAPET WALL ABOVE.
- SIMPSON H3 HURRICANE TIE AT EACH TRUSS. ATTACH DIRECTLY TO TRUSS.
- TRUSS HEEL BLOCKING - PER DETAIL 9/S-510.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- 16d NAILS AT 6" O.C. ADDITIONAL ALONG LENGTH OF SHORT ROOF TRUSSES.
- ROOF FINISHES - SEE ARCH.
- SEE 5/S-510 FOR BOTTOM CORD BRACING REQUIREMENTS.
- CONTINUOUS 2x6 TOP PLATE.



- WOOD HEADER - SEE PLAN.
- 2x6 BOTTOM PLATE.
- TRIPLE 2x6 EXTERIOR STUD WALL AT CANOPY FRAMING.
- PREFABRICATED METAL FRAMED CANOPY WITH SUPPORT FRAMES AT 4'-0" O.C. ANCHORAGE OF CANOPY FRAME TO WOOD BLOCKING BY MANUFACTURER/OTHERS.
- (2) 2x6 HORIZONTAL BLOCKING BETWEEN WOOD STUDS SIMPSON HUC26-2 JOIST HANGER EACH END. ORIENT JOIST HANGER AS SHOWN.
- (2) 2x6 VERTICAL BLOCKING BETWEEN WOOD STUDS SIMPSON HUC26-2 JOIST HANGER EACH END.
- EXTERIOR SHEATHING-SEE PLANS & DETAILS



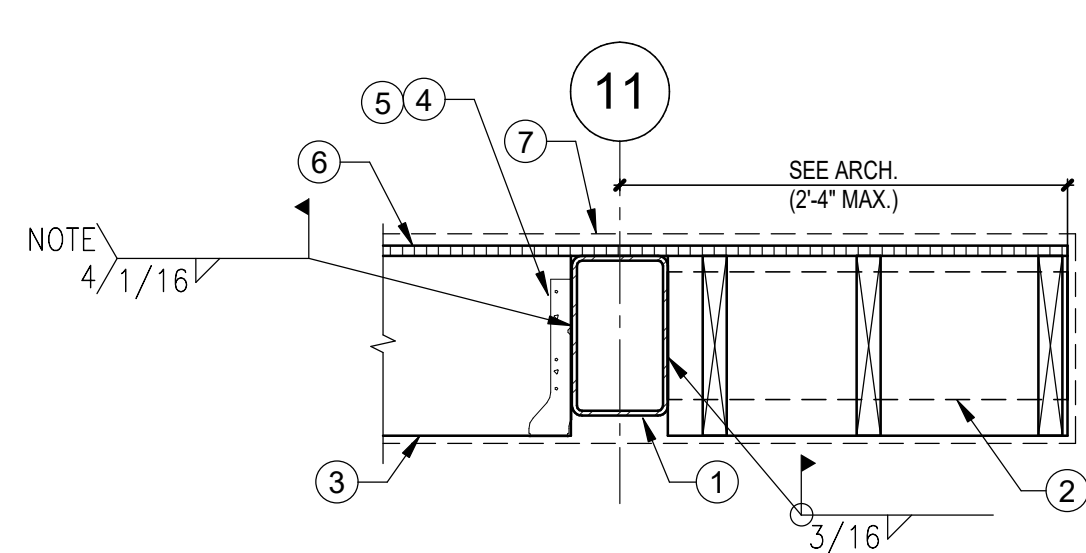
- WOOD GIRDER - SEE PLAN.
- ROOF RAFTER - SEE PLAN.
- SIMPSON LRU212Z JOIST HANGER.
- SIMPSON LRU262Z JOIST HANGER.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- ROOF FINISH - SEE ARCH.

1 EXTERIOR WALL DETAIL (TRUSS PERPENDICULAR) 1" = 1'-0"

2 EXTERIOR WALL DETAIL (TRUSS PARALLEL) 1" = 1'-0"

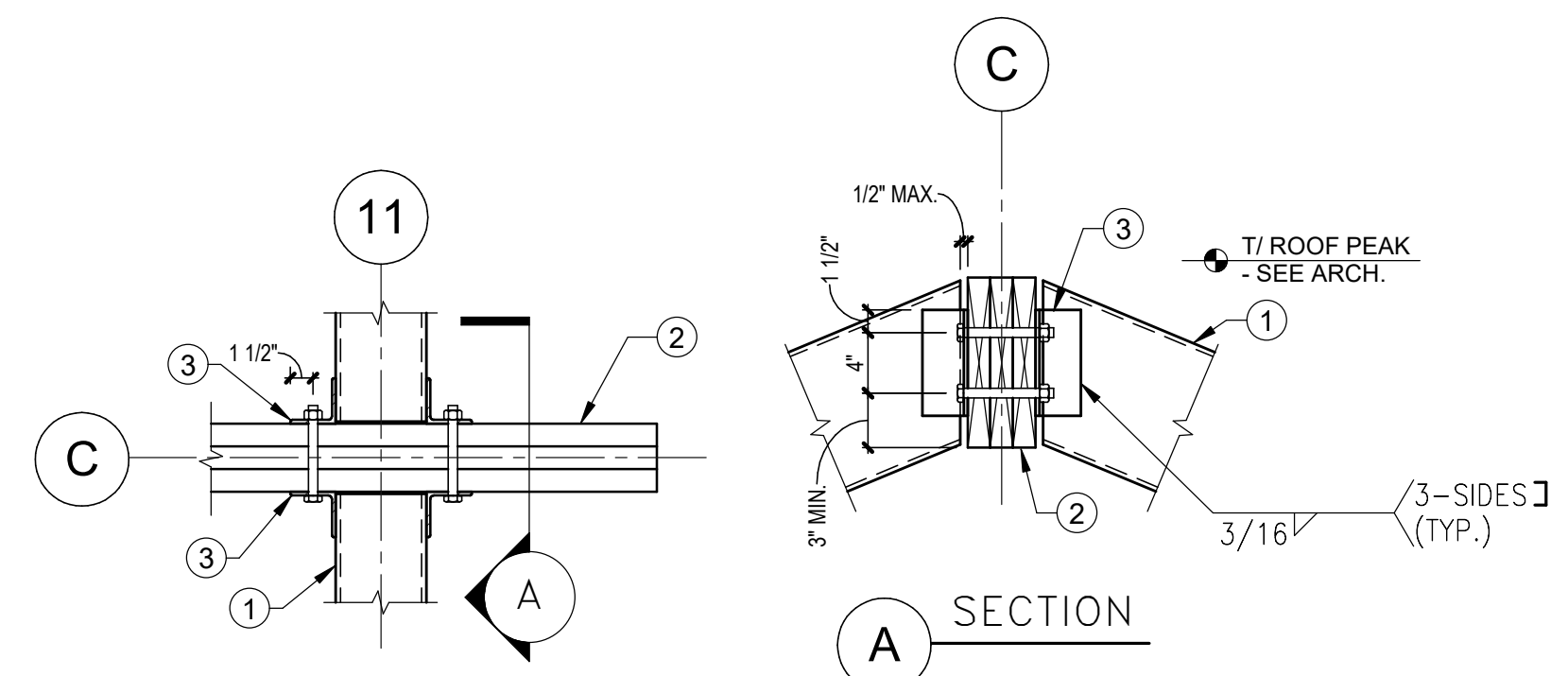
3 CANOPY SUPPORT DETAIL 1" = 1'-0"

4 INTERMEDIATE SUPPORT DETAIL 1" = 1'-0"



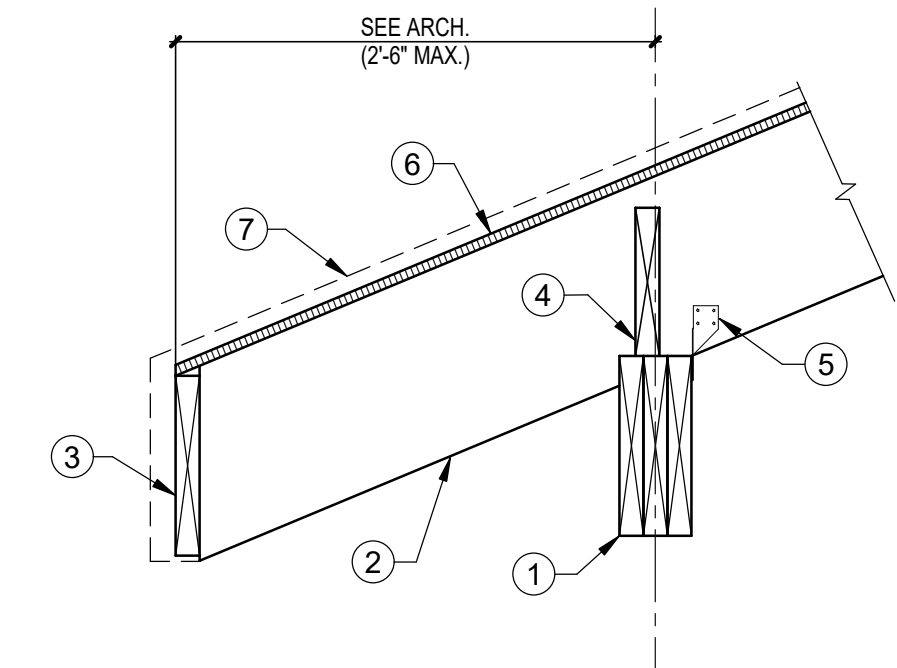
- STEEL BEAM - SEE PLAN.
- HSS8x4x5/16 BEAM - BEYOND. PROVIDE NAILERS AND THROUGH BOLTING SIM. PER NOTE 11 ON 2/S-401.
- WOOD GIRDER - SEE PLAN.
- SIMPSON HUC212-3 JOIST HANGER.
- WELD JOIST HANGER TO STEEL BEAM WITH (4) 1" SEGMENTS PER MANUFACTURER REQUIREMENTS.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- ROOF FINISH - SEE ARCH.

5 GIRDER SUPPORT DETAIL 1" = 1'-0"



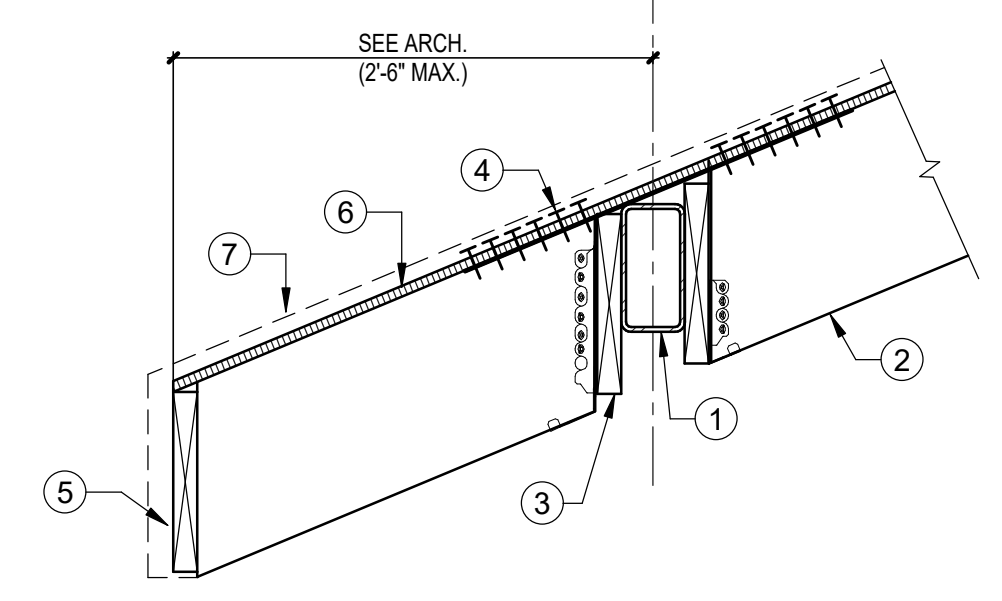
- STEEL BEAM - SEE PLAN.
- WOOD GIRDER - SEE PLAN.
- L3x3x1/4 EACH SIDE OF STEEL BEAM WITH (2) 5/8"Ø THROUGH-BOLTS.

6 RIDGE BEAM SUPPORT DETAIL 1" = 1'-0"



- WOOD GIRDER - SEE PLAN.
- BIRD MOUTHED ROOF RAFTER - SEE PLAN.
- 2x12 RIM JOIST.
- 2x10 CONTINUOUS BLOCKING.
- SIMPSON H3 HURRICANE TIE AT EACH JOIST.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- ROOF FINISH - SEE ARCH.

7 CANTILEVERED WOOD FRAMING DETAIL 1" = 1'-0"



- STEEL BEAM - SEE PLAN.
- ROOF RAFTER - SEE PLAN.
- LEDGERS, THROUGH BOLTING, JOIST SEATS, PER SIM. PER 1/S-401.
- CS20 COIL STRAP WITH 6 10d NAILS INTO EACH END OF JOIST.
- 2x12 RIM JOIST.
- ROOF SHEATHING - SEE 7/S-500 FOR SHEATHING ATTACHMENT.
- ROOF FINISH - SEE ARCH.

8 CANTILEVERED WOOD FRAMING DETAIL 1" = 1'-0"

ISSUE RECORD	DATE
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PROJECT **CLARKSBURG DAYCARE CENTER**  
23100 STRINGTOWN RD  
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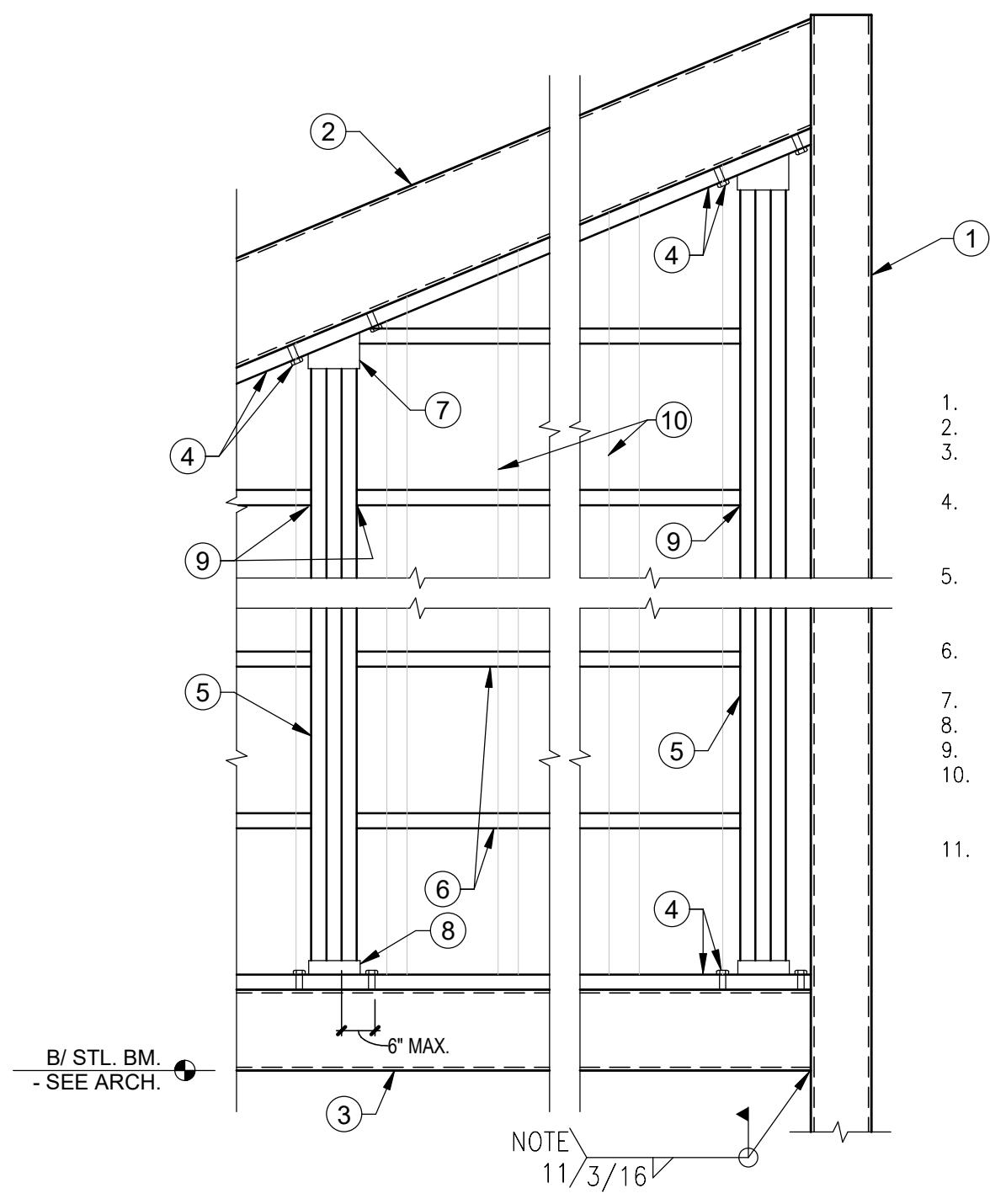
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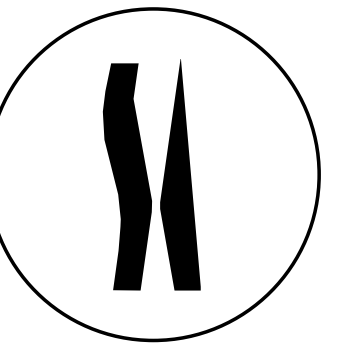
WOOD FRAMING DETAILS

S-501



1. STEEL COLUMN - SEE PLAN.
2. STEEL RAFTER BEAM - SEE PLAN.
3. LOW STEEL WALL SUPPORT BEAM - SEE PLAN.
4. CONTINUOUS 2x6 NAILER WITH WELDED 5/8" ANCHOR BOLT EACH SIDE OF BUILT UP STUD PACK.
5. (3) 2x6 STUD PACK AT 8'-0" O.C. MAX. COORDINATE WITH ARCH FACADE SPACING REQUIREMENTS.
6. 2x6 HORIZONTAL "STUDS" AT 16" O.C. VERTICALLY.
7. SIMPSON HU26-3X SKI23 JOIST HANGER.
8. SIMPSON LUS26-3 JOIST HANGER.
9. SIMPSON LU26 JOIST HANGER.
10. ARCHITECTURAL BATTON SIDING RUNNING VERTICALLY- SEE ARCH. FOR ADDITIONAL INFORMATION.
11. REPAIR GALVANIZING AT WELD PER ASTM A780.

1 WOOD SCREENWALL ELEVATION  
3/4" = 1'-0"



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ISSUE RECORD	DATE
PROGRESS SET	11/22/2023

PROJECT **CLARKSBURG DAYCARE CENTER**  
23100 STRINGTOWN RD  
CLARKSBURG, MD 20871  
2300171.00

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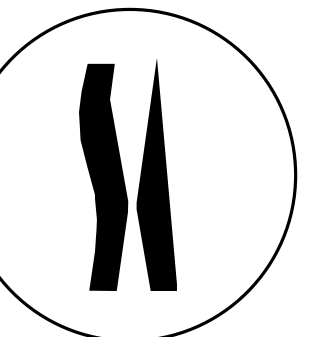
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WOOD FRAMING DETAILS

S-502



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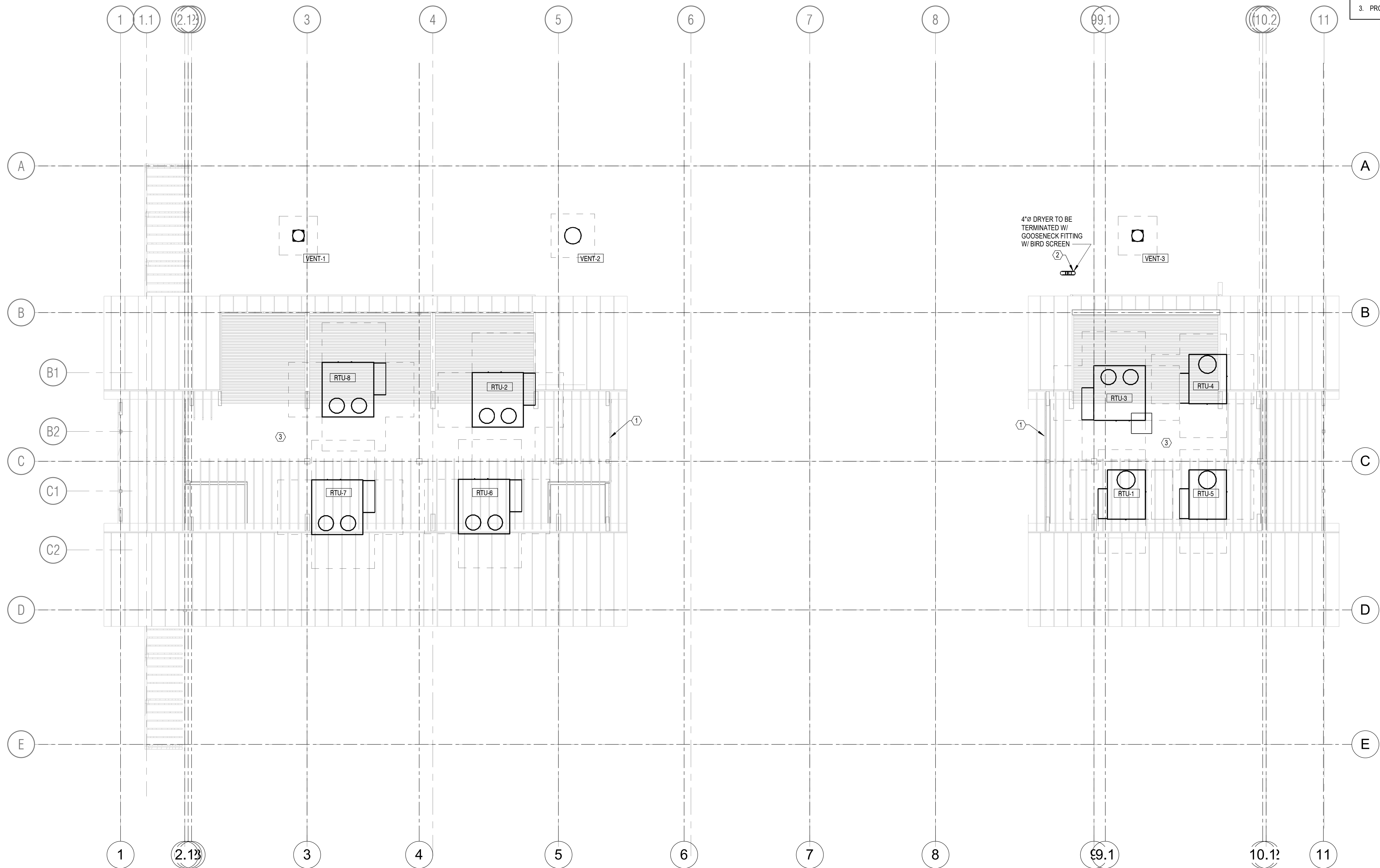
**GPI**  
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533 Gwynn Road, Suite 100, Rockville, MD 20850  
240.596.1570 www.gpi.net.com  
Project # 2008171.00 PM: NLM M: HTL E: MAN P: NDD

GENERAL NOTES	
A.	SEE MECHANICAL SPECIFICATIONS SECTION "230713 - DUCT INSULATION" FOR DUCTWORK INSULATION REQUIREMENTS.
B.	FLOOR AND ROOF PENETRATIONS SHALL BE SLEEVED AND FIRE STOPPED. FIRE STOPPING ASSEMBLY SHALL BE UL APPROVED.

KEYED NOTES - NEW WORK	
1.	PROVIDE LOUVER, SEE ARCHITECTURAL DRAWING FOR DETAIL.
2.	DRYER EXHAUST GOOSENECK TERMINATION MINIMUM 24" AFF.
3.	PROVIDE (4) OUTDOOR 18" CIRCULATION FAN (TORNADO #HI-FAN-18HVWM-WR-1P).



ISSUE RECORD	DATE
REVIEW	10/25/2023

PROJECT **HAMMER HILL DAYCARE CENTER**  
 23312 FREDERICK RD  
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 PROJECT # 10272

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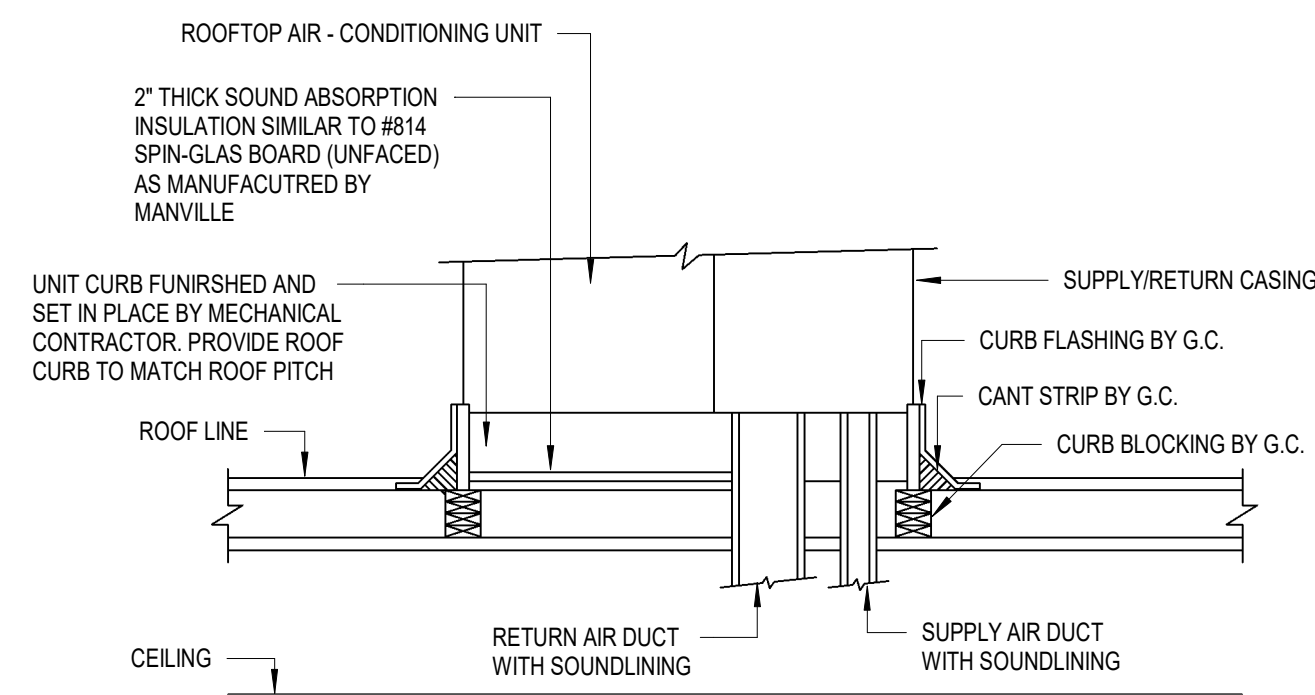
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PENTHOUSE LEVEL - NEW WORK PLAN

M-201

**PENTHOUSE LEVEL - NEW WORK PLAN**

1/8" = 1'-0"

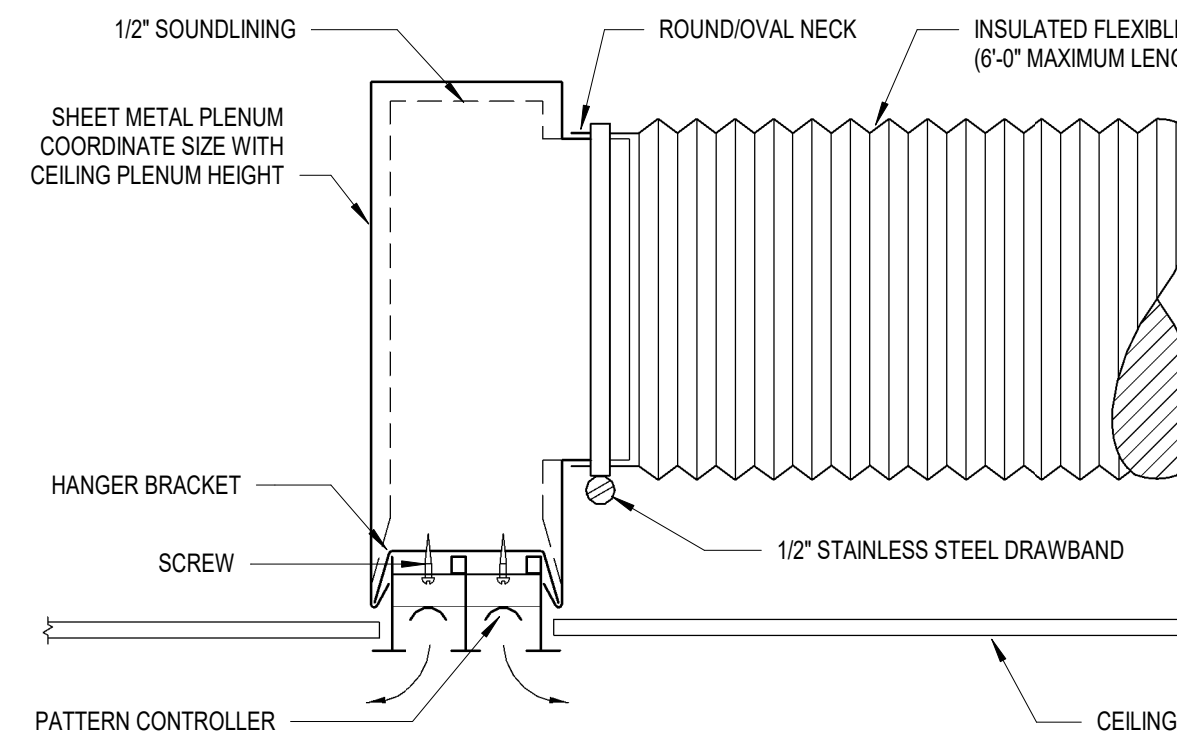


**NOTE:**

1. PROVIDE A SPRING ISOLATOR CURB FOR UNITS THAT ARE NOT INTERNALLY SPRING ISOLATED. THIS INCLUDES UNITS WITH INTEGRAL RUBBER IN SHEAR.

**ROOFTOP UNIT DETAIL**

SCALE: NOT TO SCALE

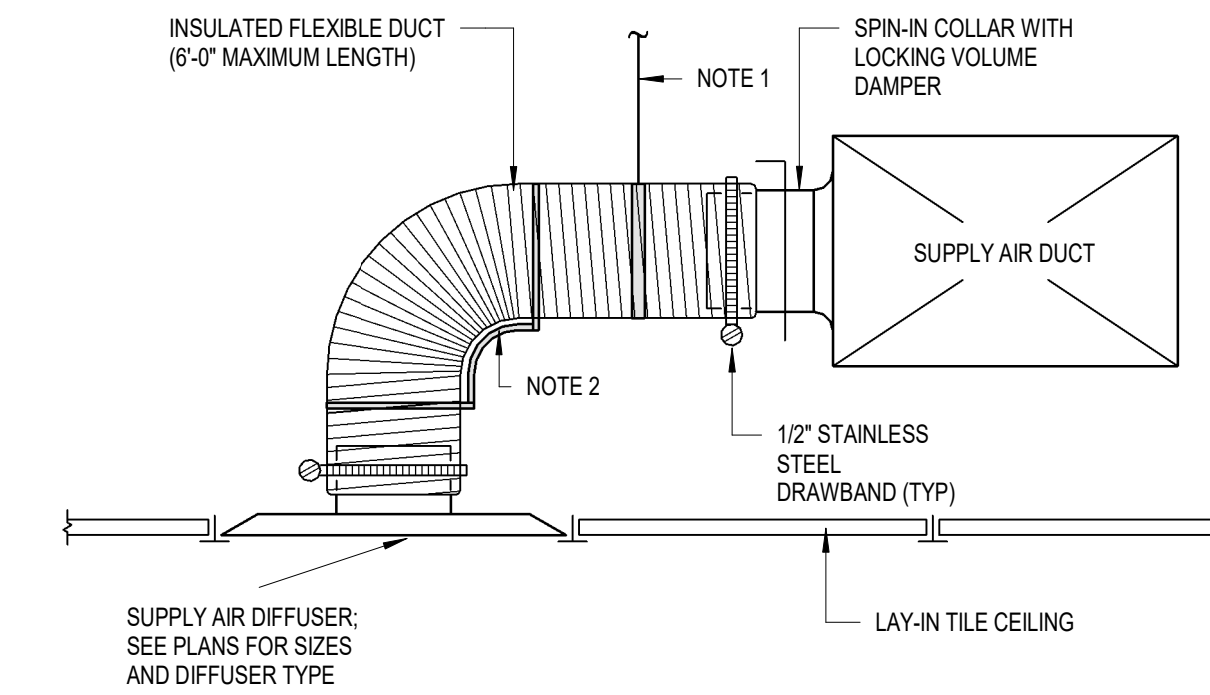


**NOTES:**

1. ADJUST VOLUME DAMPERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR SPECIFIED AIR FLOW.
2. REFER TO DIFFUSER SCHEDULE FOR QUANTITY AND SIZES OF SLOTS.
3. INSTALLED AIR DEVICES WITH ADJUSTABLE DEFLECTORS SHALL NOT DIRECT AIR ONTO THE OCCUPANTS OF THE SPACE. ADJUST AIR DEFLECTORS AS FOLLOWS:
  - THE SLOT CLOSEST TO THE EXTERIOR SHALL DIRECT AIR TO TOWARD THE EXTERIOR WALL (IF APPLICABLE).
  - ALL INTERIOR SLOTS SHALL DIRECT AIR ACROSS THE CEILING.

**LINEAR SLOT DIFFUSER INSTALLATION DETAIL**

SCALE: NOT TO SCALE

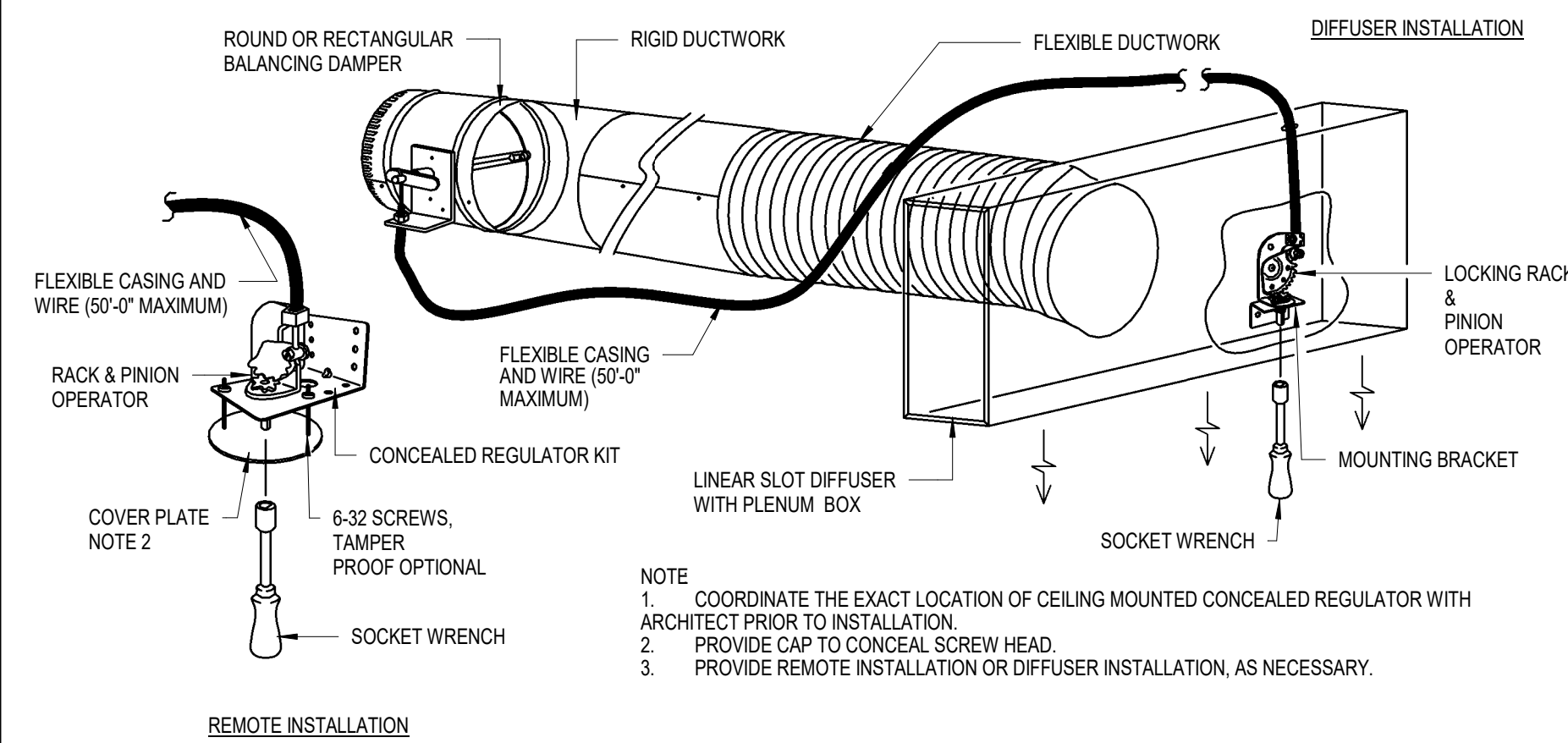


**NOTE:**

1. FLEXIBLE DUCT SHALL BE SUPPORTED FROM STRUCTURE ABOVE TO PREVENT SAGGING.
2. INSTALL DURABLE ELBOW SUPPORT (FLEX RIGHT OR APPROVED EQUAL) TO ENSURE BENDS ARE NOT MADE WITH LESS THAN ONE DUCT DIAMETER (CENTERLINE RADIUS). REFER TO MANUFACTURER INSTALLATION DETAILS FOR ADDITIONAL INFORMATION.

**SUPPLY AIR DIFFUSER DUCT CONNECTION DETAIL**

SCALE: NOT TO SCALE

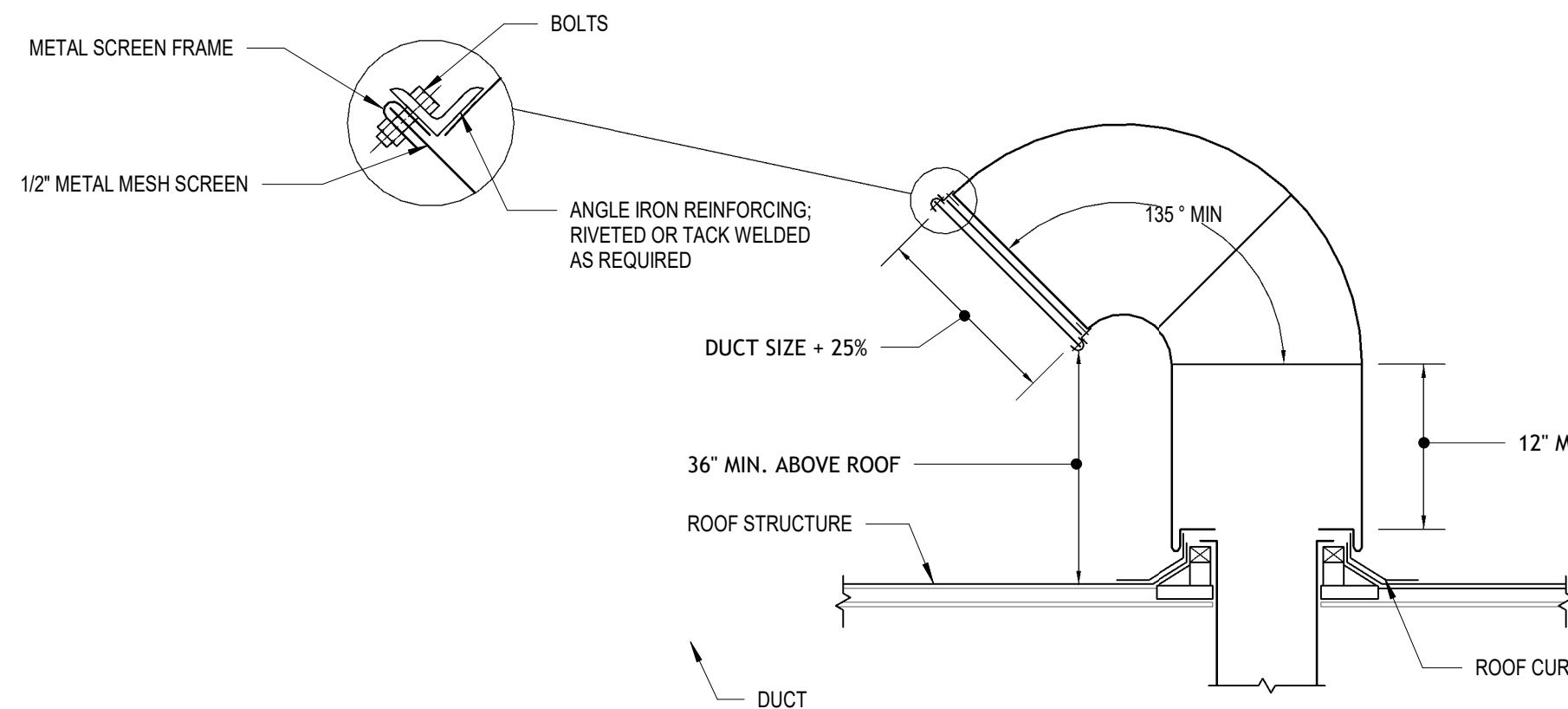


**NOTE:**

1. COORDINATE THE EXACT LOCATION OF CEILING MOUNTED CONCEALED REGULATOR WITH ARCHITECT PRIOR TO INSTALLATION.
2. PROVIDE CAP TO CONCEAL SCREW HEAD.
3. PROVIDE REMOTE INSTALLATION OR DIFFUSER INSTALLATION, AS NECESSARY.

**CABLE CONTROL SYSTEM - LINEAR DIFFUSER**

SCALE: NOT TO SCALE

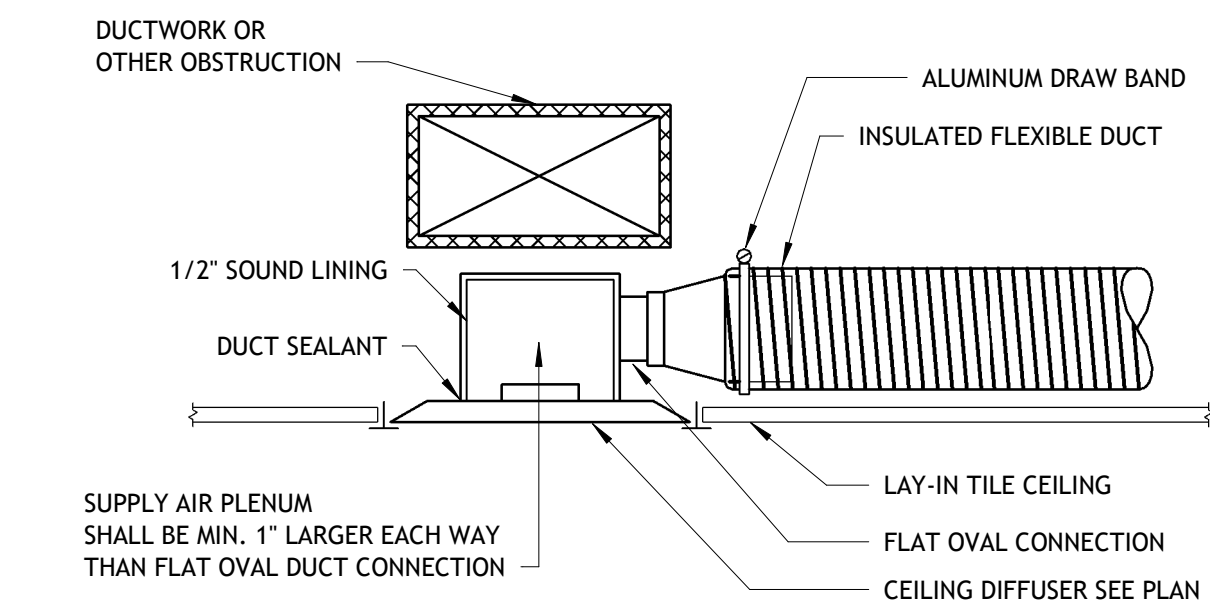


**NOTES:**

1. INSIDE RADIUS OF GOOSENECK SHALL BE EQUAL TO ONE HALF OF THE DUCT WIDTH.
2. ALL SEAMS AND JOINTS SHALL BE WATERPROOFED.

**GOOSENECK DETAIL**

SCALE: NOT TO SCALE



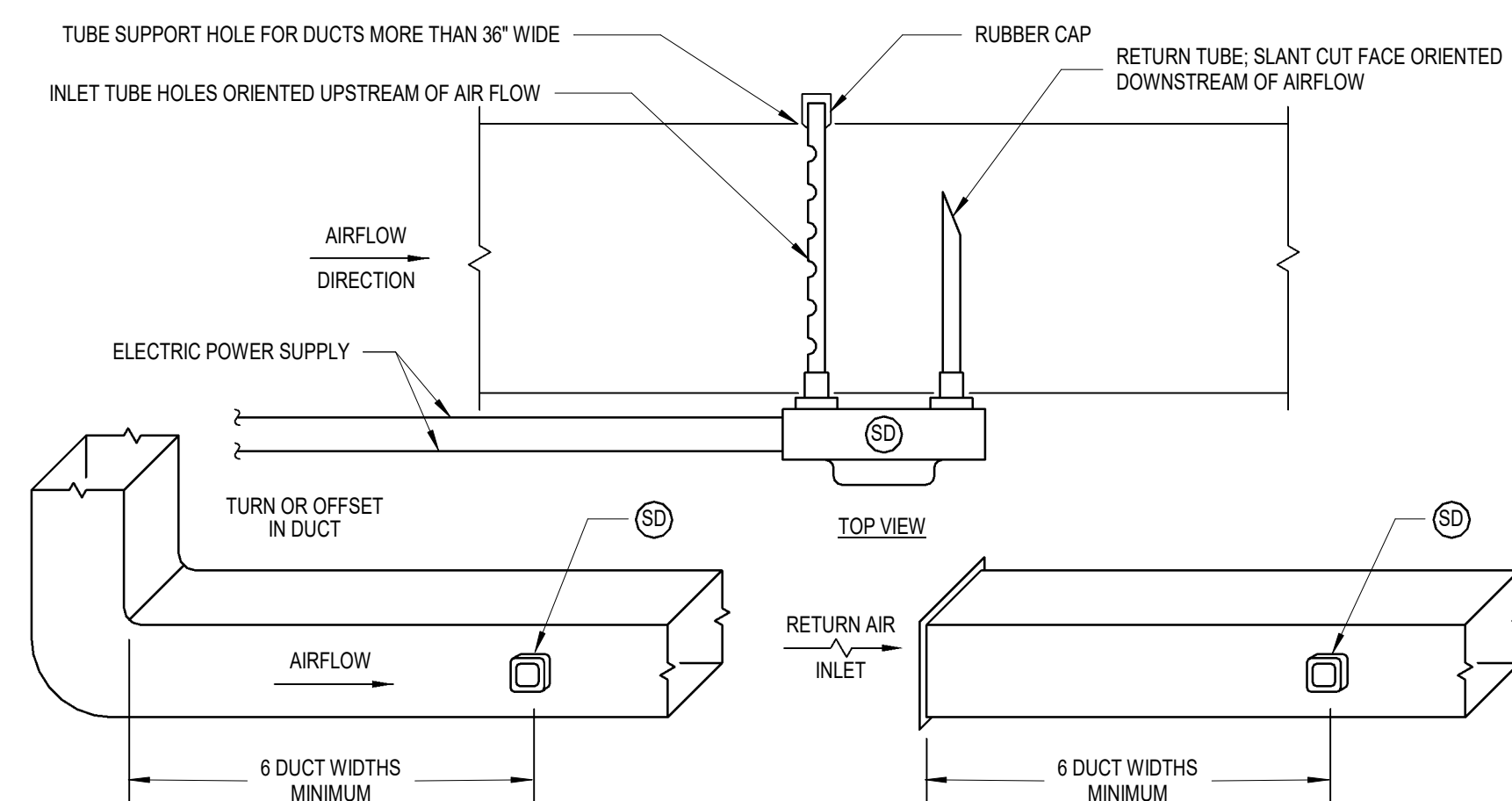
**NOTES:**

1. THE FOLLOWING SCHEDULE SHALL BE USED BY THE CONTRACTOR FOR ROUND TO FLAT OVAL DUCTWORK SIZE.

ROUND FLEX DUCT SIZE (IN.)	FLAT OVAL REQD SIZE (IN.)
6" RD	4"x7"
8" RD	4"x10", 6"x9"
10" RD	6"x12", 8"x11"
12" RD	6"x15", 8"x14", 10"x13"
14" RD	8"x17", 10"x16", 12"x15"

**CEILING DIFFUSER CONNECTION ALTERNATE DETAIL**

SCALE: NOT TO SCALE

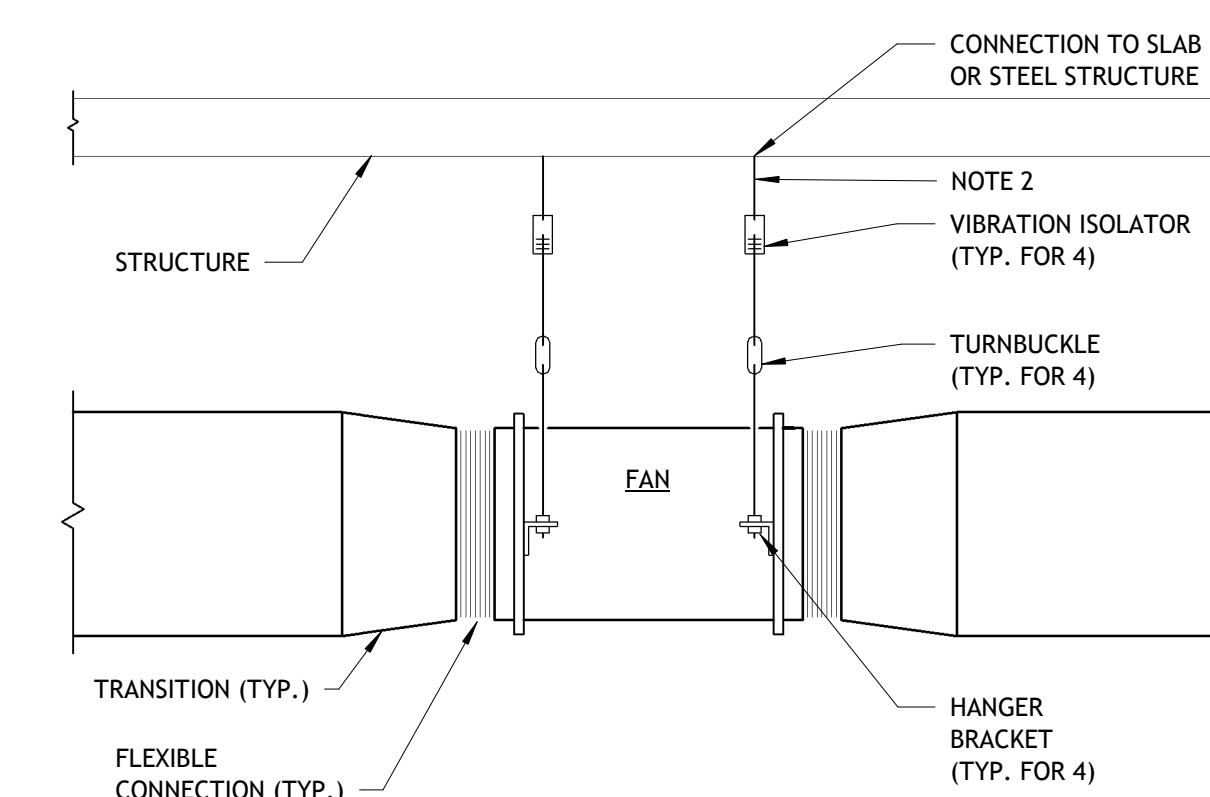


**NOTES:**

1. INLET TUBE LENGTH SHALL BE EQUAL TO FULL WIDTH OF DUCT.
2. RETURN TUBE SHALL BE AS RECOMMENDED BY THE DETECTOR'S MANUFACTURER.
3. CLEARANCES FROM OBSTRUCTION, INLETS AND PROPER LOCATION IN THE SYSTEM SHALL BE IN ACCORDANCE WITH NEMA "GUIDE FOR PROPER USE OF SMOKE DETECTORS IN DUCT APPLICATIONS", NFPA 90A, U.L. STANDARD 268A AND NFPA 72E.

**DUCT SMOKE DETECTOR DETAIL**

SCALE: NOT TO SCALE

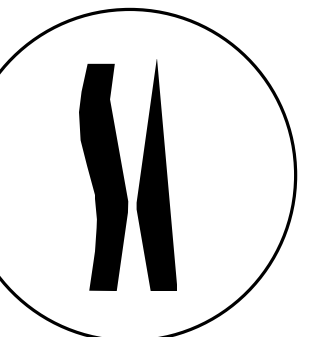


**NOTES:**

1. VIBRATION ISOLATOR SHALL BE SIMILAR TO MASON INDUSTRIES, TYPE 30N HANGER.
2. SUPPORT FAN WITH THREAD ROD & VIBRATION ISOLATION IN CONJUNCTION WITH HANGER BRACKETS PROVIDED ON THE EQUIPMENT. ATTACHMENT TO BUILDING STRUCTURE SHALL BE COORDINATED WITH THE BUILDING ENGINEER.
3. CONTRACTOR TO COORDINATE FAN ORIENTATION TO ALLOW FOR SERVICE CLEARANCE AND CEILING INSTALLATION.

**IN-LINE FAN DETAIL**

SCALE: NOT TO SCALE



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REVIEW

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PROJECT **HAMMER HILL  
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23312 FREDERICK RD  
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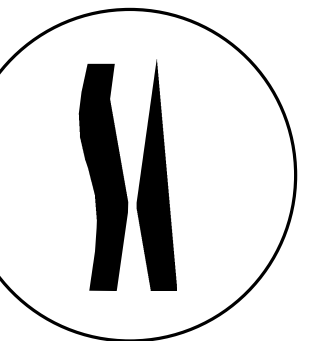
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DETAILS

**M-300**



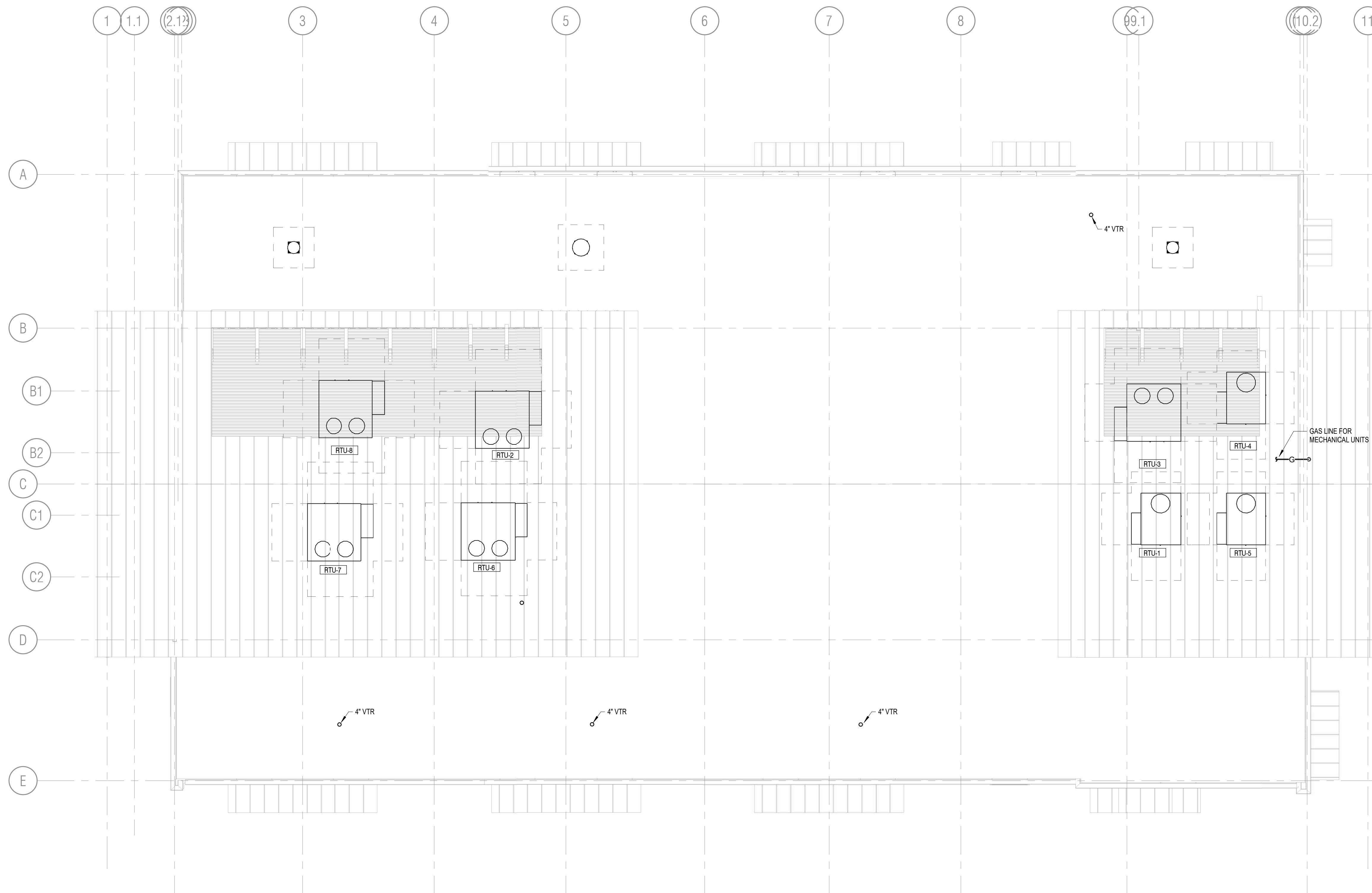
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**ROOF PLAN**  
1/8" = 1'-0"

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PROJECT **HAMMER HILL DAYCARE CENTER**  
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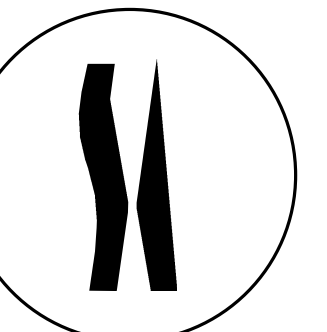
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ROOF PLAN  
**P-102**





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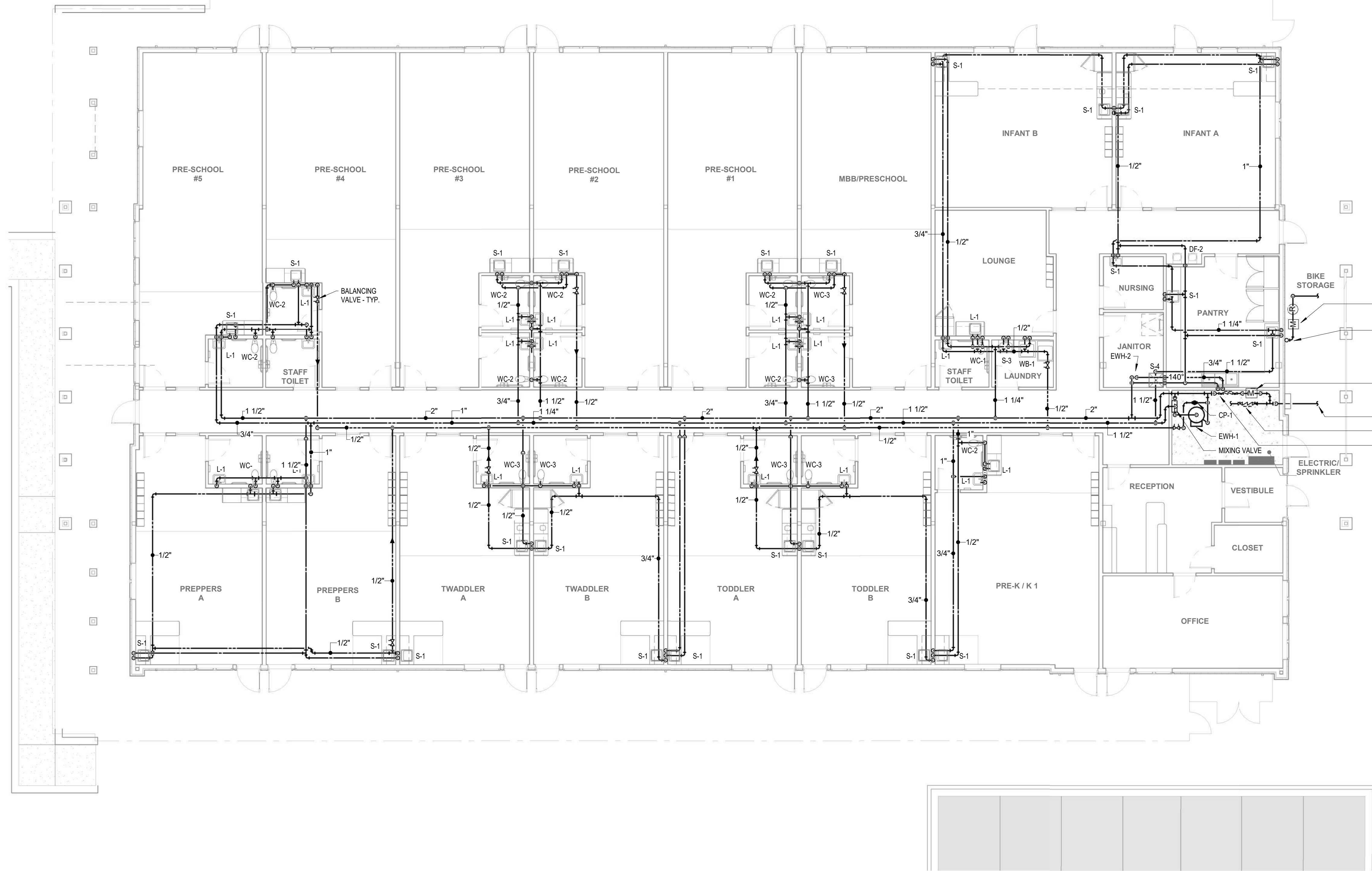
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Project # 2300171.00  
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**GENERAL NOTES**

1. CONTRACTOR TO PROVIDE MIXING VALVES AT EACH LAVATORY AND SINK. COORDINATE WITH AUTHORITY HAVING JURISDICTION.
2. REFER TO COUNTER HEIGHTS IN ARCHITECTURAL MILLWORK DETAILS FOR COUNTER-MOUNTED SINK ROUGH-INS
3. FOR DETAILED INFORMATION OF SPACE ALLOCATION IN MECHANICAL ROOM SEE ELECTRICAL DRAWING E-201.
4. PROVIDE MIXING VALVES AT ALL LAVATORIES/SINKS SET TO 105 DEGREES FAHRENHEIT. COORDINATE TEMPERATURE IN PANTRY WITH LOCAL HEALTH DEPARTMENT.
5. WATER PIPES SERVING EXTERIOR FIXTURES (DRINKING FOUNTAINS AND HOSE BIBBS) SHALL BE INSULATED TO PREVENT FREEZING.
6. PROVIDE INDIVIDUAL SHUTOFF VALVES FOR EACH FIXTURE. SEE DIAGRAM 12 ON DRAWING P-601.

**KEYED NOTES**

1. -



- PRESSURE REGULATOR & GAS METER INSTALLED BY OTHERS.
- GAS SERVICE LINE UP TO ROOF.
- 2-1/2" WATER METER WITH BY-PASS
- 6" WATER SERVICE LINE
- 4" FIRE PROTECTION BFP - ASSE 1048
- 2-1/2" WATER BFP - ASSE 1048

**1ST FLOOR PLAN - WATER & GAS**  
1/8" = 1'-0"

ISSUE RECORD	DATE
REVIEW	10/25/2023

PROJECT **HAMMER HILL DAYCARE CENTER**  
23312 FREDERICK RD  
CLARKSBURG, MD 20871  
PROJECT # 10272

DRAWING INFORMATION

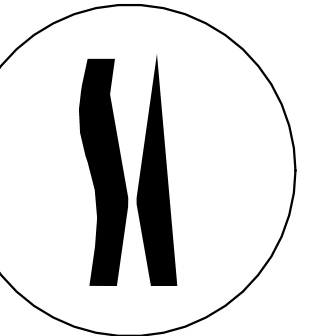
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NOT FOR CONSTRUCTION

SHEET

1ST FLOOR PLAN - WATER & GAS

**P-201**



SKA STUDIO

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1 North Elevation A  
1/8" = 1'-0"



2 South Elevation A  
1/8" = 1'-0"

ISSUE RECORD	DATE
HAWP APPLICATION SUBMISSION	11/29/23

PROJECT

**CLARKSBURG DAYCARE CENTER**  
23312 FREDERICK RD  
CLARKSBURG  
CLARKSBURG, MD 20871  
PROJECT # 10272

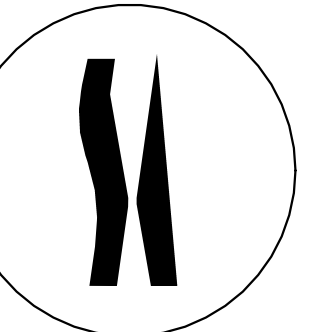
DRAWING INFORMATION

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SHEET

BUILDING  
ELEVATIONS

A-201



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1 East Elevation A  
1/8" = 1'-0"



2 West Elevation A  
1/8" = 1'-0"

ISSUE RECORD	DATE
HAWP APPLICATION SUBMISSION	11/29/23

PROJECT

**CLARKSBURG DAYCARE CENTER**

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PROJECT # 10272

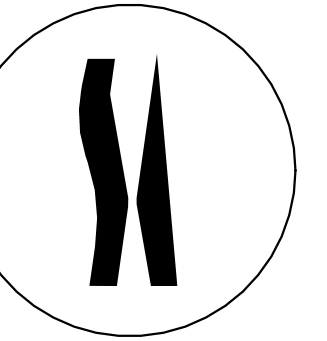
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BUILDING ELEVATIONS

**A-202**



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ISSUE RECORD	DATE
HAWP APPLICATION SUBMISSION	11/29/23

PROJECT

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PROJECT # 10272

DRAWING INFORMATION

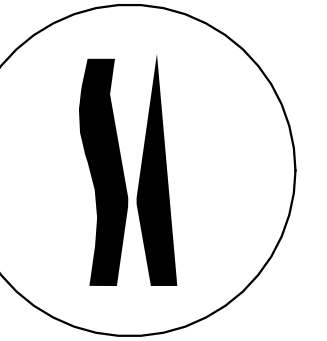
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3D VIEWS

**A-801**





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PROJECT # 10272

DRAWING INFORMATION

STAMP

SHEET

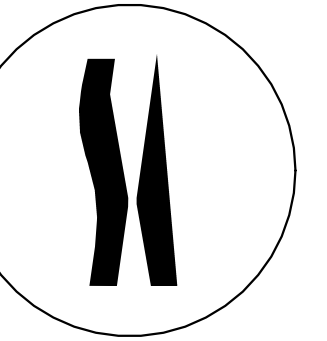
3D VIEWS

A-802



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ISSUE RECORD	DATE
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PROJECT

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PROJECT # 10272

DRAWING INFORMATION

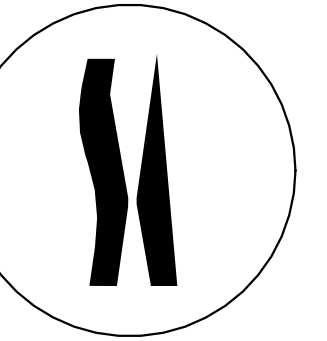
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3D VIEWS

**A-803**





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ISSUE RECORD	DATE
HAWP APPLICATION SUBMISSION	11/29/23

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PROJECT # 10272

DRAWING INFORMATION

STAMP

SHEET

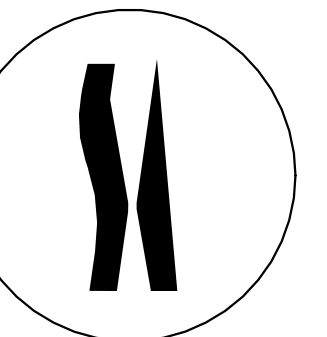
3D VIEWS

**A-804**



SKA STUDIO





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ISSUE RECORD	DATE
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DRAWING INFORMATION

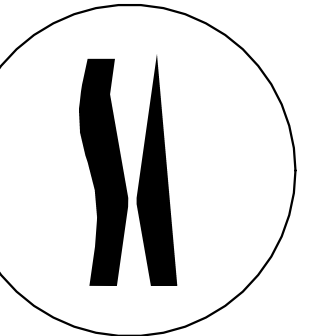
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3D VIEWS

**A-805**





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PROJECT

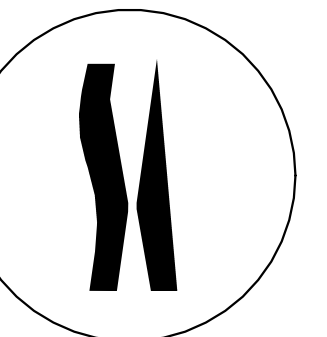
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PROJECT # 10272

DRAWING INFORMATION

STAMP

SHEET

3D VIEWS  
**A-806**



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ISSUE RECORD	DATE
HAWP APPLICATION SUBMISSION	11/29/23

PROJECT

**CLARKSBURG DAYCARE CENTER**

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CLARKSBURG  
CLARKSBURG, MD 20871  
PROJECT # 10272

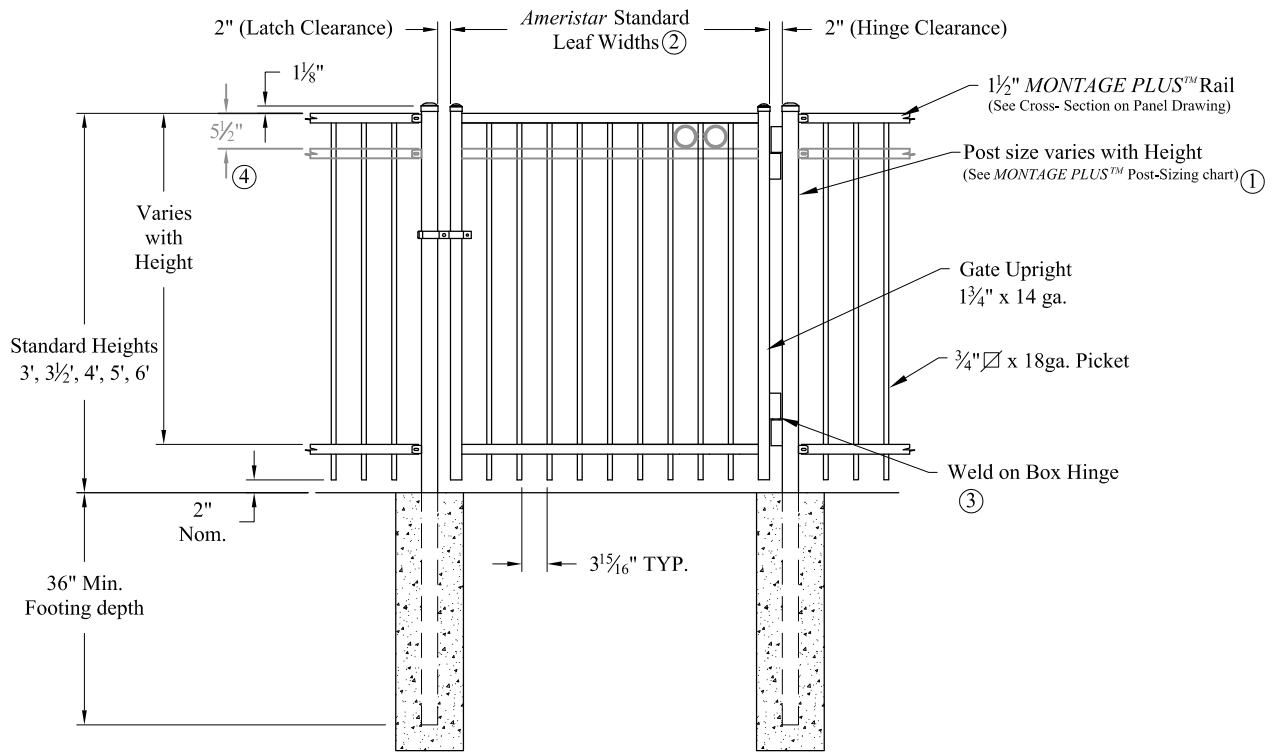
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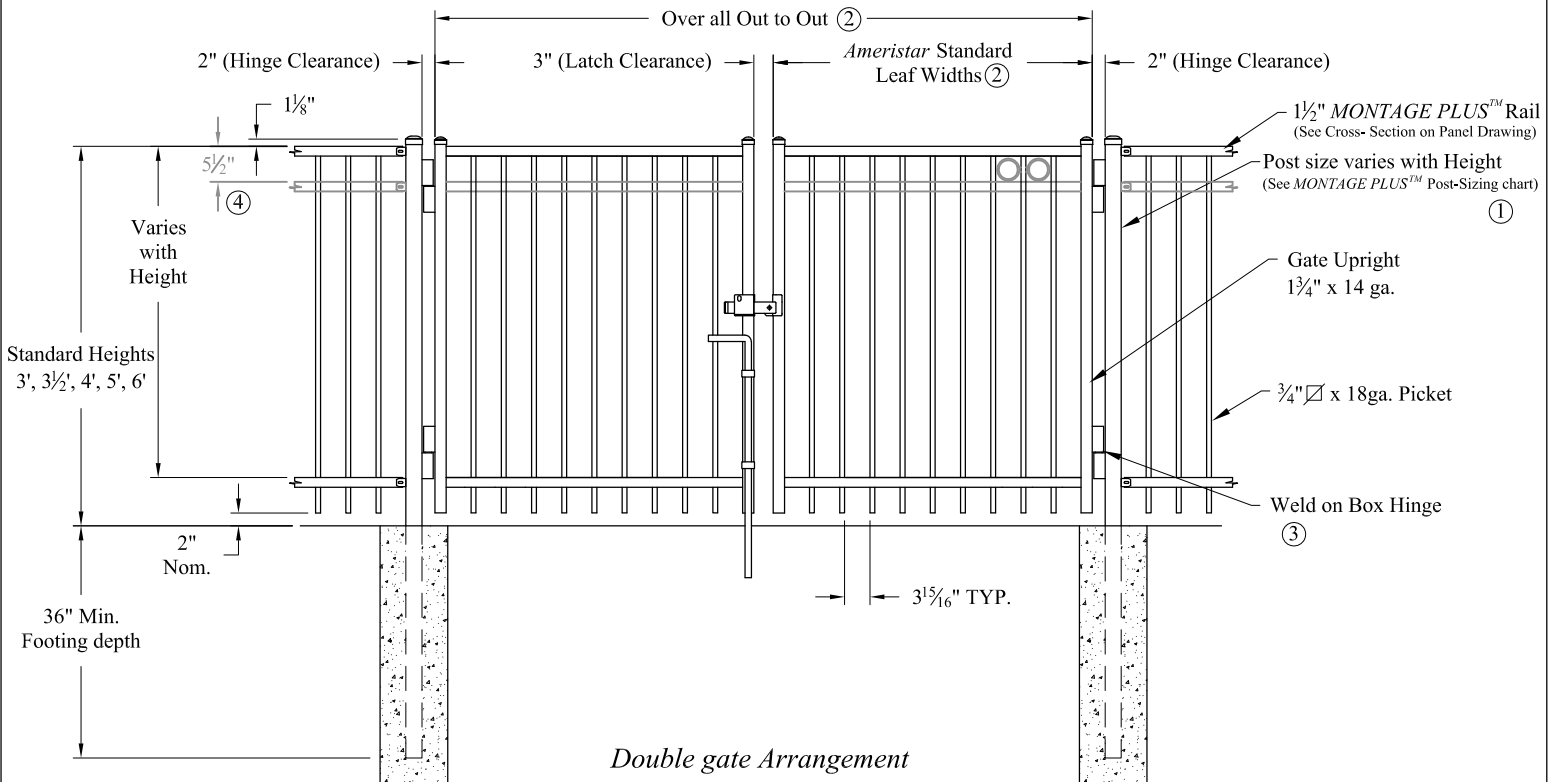
3D VIEWS

**A-807**



**NOTES:** *Single gate Arrangement*

- 1.) Post size depends on fence height, weight and wind loads. See MONTAGE PLUS™ specifications for post sizing chart.
- 2.) See Ameristar gate table for standard out to outs. Custom gate openings available for special out to out/leaf widths.
- 3.) Additional styles of gate hardware are available on request. This could change the Latch & Hinge Clearance.
- 4.) Third rail required for *Double Rings*.



Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

**COMMERCIAL STRENGTH WELDED STEEL GATES**

Title: **MONTAGE PLUS MAJESTIC 2/3-RAIL SGL & DBL GATE**

DR: CI | SH . 1 of 1 | SCALE: DO NOT SCALE

CK: ME | Date 6/28/10 | REV: e



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RE: HAWP Permit No. 1048193 - Hammer Hill Daycare Center - HAWP Application Submission - Rev1



Ben Dorsey <BDorsey@skastudio.com>

To ● Liebertz, John

 You replied to this message on 12/7/2023 9:10 AM.



Montage Plus Majestic Gate.pdf  
311 KB

---

**From:** Liebertz, John <[John.Liebertz@montgomeryplanning.org](mailto:John.Liebertz@montgomeryplanning.org)>

**Sent:** Tuesday, December 5, 2023 2:28 PM

**To:** Ben Dorsey <[BDorsey@skastudio.com](mailto:BDorsey@skastudio.com)>

**Subject:** RE: HAWP Permit No. 1048193 - Hammer Hill Daycare Center - HAWP Application Submission - Rev1

Hey Ben,

A couple of quick questions.

1. All of the Marvin Ultimate Commercial Doors are aluminum-clad wood doors, right? I didn't see it specified and I believe that line can be either wood or aluminum-clad exteriors.

**Response: Correct, the Marvin Ultimate doors will be aluminum-clad wood doors.**

2. There is a discrepancy with the fence. Let me know if I am misinterpreting this.

- a. Sheet A101, Notes 3 and 4 state, "4' or 6' solid vinyl privacy fence."

**Response: Sheet Note 3 on A-101 is incorrect and will be updated to 6' steel fence.**

- b. The spec on L.202 shows the proposed steel fence at 3.5' to 6' tall (which I believe is correct).

**Response: That is correct. Railings needed at the retaining wall / ramp will be 3.5'. All building perimeter fence will be 6'.**

3. I may be missing this in the plan, but does a site plan show the height of the fence at certain locations? Also, we will need a specification sheet for the design of any gates (if its not included).

**Response: All building perimeter fencing (south/east/west) and playground surrounds will be 6'.**

**Response: Gate specification attached. 'Ameristar Montage Plus Majestic' (to match the fencing)**

These are all minor. If any are missing, I will just condition the approval that the applicant submits revisions to staff for approval.