

PLANNING COMMISSION



STAFF REPORT

Department of Growth Management

MEETING DATE:	June 26, 2024
PROJECT:	Compass Self Storage - Certificate of Appropriateness-Highway Corridor Overlay District (HCO)
PROJECT MANAGER:	Katie Peterson, AICP, Senior Planner

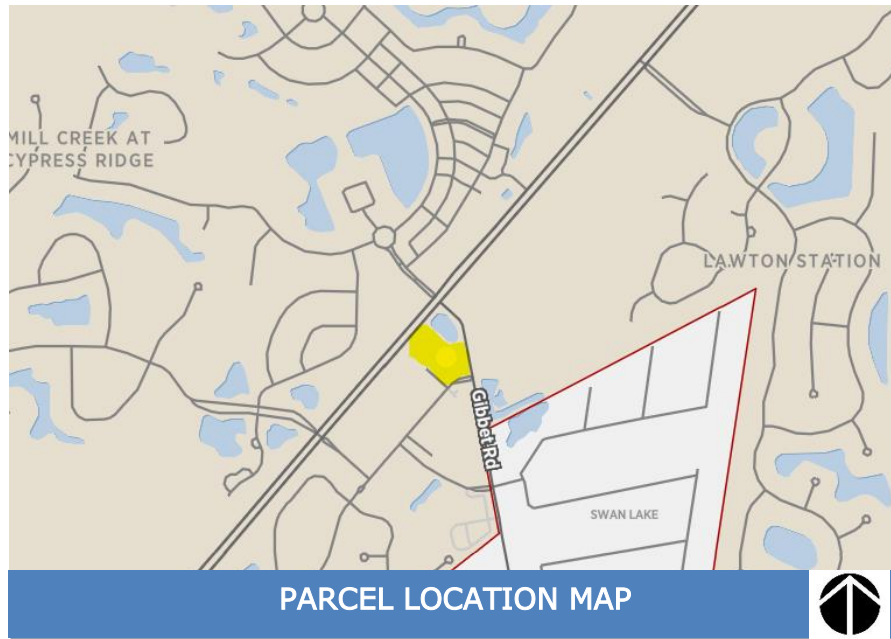
APPLICATION REQUEST: The Applicant, Amsdell Construction, on behalf of the Owner, Amsdell Storage Ventures 81, LLC, requests approval from the Planning Commission of the following application:

COFA-03-24-019062. A Certificate of Appropriateness-HCO for the construction of two, two-story buildings totaling approximately 109,398 SF of climate-controlled self-storage space, the associated landscaping, lighting and other infrastructure on the parcels consisting of 3.21 acres identified by tax map numbers R610 036 000 0459 0000 and R610 036 000 0458 0000, zoned Jones Estate PUD, within the Highway Corridor Overlay, located at the northeast corner of the Caine Drive and Estate Drive intersection, west of Gibbet Road, and fronts on SC Hwy 170.

INTRODUCTION: The Conceptual Plan and Development Agreement for the Jones Estate PUD was initially approved by Bluffton Town Council in 2000. As approved, the plan organized the 4,400-acre Jones Estate into planning areas or tracts to provide for the arrangement and regulation of land uses, as well as the allocation of residential densities. The subject parcel is located within the Church Point Planning Tract which was approved by Town Council on the same date, and is within the Palmetto Pointe Commercial Master Plan (MPA-02-13-5332), last revised in 2013.

A Development Plan (DP-09-22-017236) was conditionally approved at the February 22, 2023 Planning Commission meeting. A Final Development Plan was reviewed at the May 15, 2023 Development Review Committee where comments were provide to the Applicant. The Applicant has submitted revised materials May 23, 2024. As several of the comments effect both the Certificate of Appropriateness and the Development Plan, Staff has recommended the Applicant wait until Planning Commission hears this application to resubmit addressing final Development Review Committee conditions.

The Applicant is requesting approval of a Certificate of Appropriateness – Highway Corridor Overlay application which is subject to review by the Planning Commission, which has authority over architecture, landscaping and lighting design only.



PLANNING COMMISSION ACTIONS: As granted by the powers and duties set forth in Section 2.2.6.C.6. of the Unified Development Ordinance (UDO), the Planning Commission has the authority to take the following actions with respect to this application:

1. Approve the application as submitted by the Applicant;
2. Approve the application with conditions; or
3. Deny the application as submitted by the Applicant.

REVIEW CRITERIA & ANALYSIS: Town Staff and the Planning Commission are required to consider the criteria set forth in Section 3.17.3 of the UDO in assessing an application for a Certificate of Appropriateness-HCO. These criteria are provided below followed by a Staff Finding based upon review of the application submittals to date.

1. Section 3.17.3.A. The proposed development must be in conformance with applicable landscaping, lighting, and architectural provisions provided in Article 5, Design Standards.
 - a) *Finding.* The project is located within the Jones Tract PUD, part of the Church Point Planning Area, and Palmetto Point Commercial Master Plan. The PUD established specific design standards via the Beaufort County 1990/3 Zoning and Development Standards Ordinance and the Town of Bluffton Highway Corridor Overlay District (HCO) within the Town of Bluffton Zoning and Development Standards Ordinance (ZDSO), which are attached to the PUD. As a result, the design criteria of Article 5 of the current UDO do not apply to this proposal.

2. Section 3.17.3.B. The proposed development shall be in conformance with any approved Development Agreement, PUD Concept Plan, PUD Master Plan, Subdivision Plan, or any other agreements or plans that are applicable.
 - a) *Finding.* The property is located within the Jones Tract PUD and is identified in the Church Point Planning Tract as a Mixed-Use Community. As a result, the property is subject to the Beaufort County 1990/3 Zoning and Development Standards Ordinance and the Town of Bluffton Zoning and Development Standards Ordinance and Design Guidelines, which contain architectural, landscaping, and lighting design standards for properties located in the Highway Corridor Overlay District (HCOD).

A. JONES ESTATE PUD/PUD CONCEPT PLAN

The Jones Estate PUD refers to the Beaufort County 1990/3 Zoning and Development Standards Ordinance (ZDSO) and The Town of Bluffton Zoning and Development Standards Ordinance Highway Corridor Overlay District (HCOD) for development standards.

Architecture

Applying Section 5.15.9., (Town of Bluffton Highway Corridor Overlay District, June 20, 2000, Architectural Design), findings include:

- 1) *Finding- Other Requirements.* 5.15.12.(A) states that all duct work, fixed operating machinery and other such utility equipment shall either be screened from view or located so that they are not visible from the highway. Further, 5.15.9.(E)(4) indicates incongruity of architectural details resulting in a clearly disturbing appearance are inappropriate. Staff has concerns that the HVAC units proposed on the roof will exceed the parapet height and be visible. Confirmation that the units will not be visible beyond the parapet and acknowledgement that should they be installed during construction and be visible beyond the parapet height it will result in the failure of HCOD inspections and potentially halt construction until it is corrected.

Landscaping

- 1) Numerous trees are being proposed in the northern bioretention cell (White Oak, Nuttall Oak, Willow Oak) on the landscape plan. As indicated in the Stormwater Review provided at DRC, a list of acceptable bioretention plants can be found in Table 4.7 (perennial & grasses) and Table 4.8 (shrubs & bushes) in Chapter 4.3.5 in the Southern Lowcountry Stormwater Design Manual. Revise Landscape Plan to address Stormwater comments from DRC (Attachment 6).
- 2) Landscape Plan states that the bioretention areas will be "natural ground cover" but does not state species or quantities of plantings. The Civil Drawing detail, provided with the Development Plan, for the bioretention

cells shows a 3" mulch layer in each bioretention cell. Clarify bioretention cell materials and revise all documents to be consistent.

- 3) Trees have been proposed in front of pedestrian doors on both buildings, which results in an obstructed exit in an emergency. Relocate trees as indicated in Fire Department Comments found in the DRC comments.

Lighting

Applying Section 5.15.11., (Highway Corridor Overlay District, Lighting), findings include:

- 7) *Finding – Lighting.* Per Section 5.15.11(E)(2) of the BZDSO, only incandescent, fluorescent, metal halide, mercury vapor or color corrected high-pressure sodium light may be used. The same type must be used for the same or similar type of lighting on any site. The Applicant proposes the use of LED luminaries. As such, the Planning Commission must determine the appropriateness of the use of LED lighting as a substitute for those listed in Section 5.15.11. of the BZDSO.

B. PUD MASTER PLAN

- 1) *Finding – Palmetto Pointe Commercial Master Plan.* The Master Plan states the site planning and development standards are designed in accordance to those in Attachment 1 of the Jones Estate PUD. The site has been designed to be in compliance with the Master Plan as long as the other sections of this report have been addressed.

C. DEVELOPMENT PLAN

- 1) *Finding - Development Plan.* This project requires Development Plan Approval from the Town of Bluffton. The Preliminary Development Plan (DP-09-22-017236) was conditionally approved at the February 22, 2023 Planning Commission meeting. A Final Development Plan was reviewed at the May 15, 2023 Development Review Committee where comments were provide to the Applicant. The Applicant has submitted revised materials May 23, 2024. As several of the comments effect both the Certificate of Appropriateness and the Development Plan, Staff has recommended the Applicant wait until Planning Commission hears this application to resubmit addressing final Development Review Committee conditions.

Should the Planning Commission choose to approve this application or approve the application with conditions and the site need to be altered based on the Development Plan, a new Certificate of Appropriateness-HCO may need to be submitted for review as a conditional approval may not be amended until the conditions have been met, and any major changes may not be an amendment to the existing Certificate of Appropriateness-HCO.

D. DECLARATION OF COVENANTS, CONDITIONS, AND RESTRICTIONS

The Declaration of Covenants, Conditions, and Restrictions for the Palmetto Pointe Commercial Master Plan.

- 1) *Finding - Declaration of Covenants, Conditions, and Restrictions for Cypress Ridge.* The applicant must provided a letter from Atlantic States Management, Inc. confirming compliance with the Palmetto Pointe Business Park ARB prior to final approval.
3. Section 3.17.3.C. The application must comply with applicable requirements in the Application Manual.
 - a. *Finding – Applications Manual.* The application has been reviewed by Town Staff and has been determined to be incomplete, as there is not yet an approved Development Plan for the site. Once the Development Plan has been approved, it may be complete.

Please note that per the Town of Bluffton Applications Manual, a separate Sign Permit will be required for all signage that is being proposed in association with this development.

TOWN STAFF RECOMMENDATION: Town Staff finds that with the conditions provided below, the requirements of Section 3.17.3 of the UDO will be met. Should the Planning Commission choose to approve the application Town Staff finds that the following conditions should be met prior to final approval being issued.

Architecture.

1. Confirmation that the units will not be visible beyond the parapet and acknowledgement that should they be installed during construction and be visible beyond the parapet height it will result in the failure of HCOD inspections and potentially halt construction until it is corrected.

Landscape.

2. Revise Landscape Plan to address Stormwater comments from DRC.
3. Clarify bioretention cell materials and revise all documents to be consistent.
4. Relocate trees blocking pedestrian egress as indicated in Fire Department Comments found in the DRC comments.

Lighting.

5. A determine the appropriateness of the use of LED lighting as a substitute for those listed in Section 5.15.11. of the BZDSO must be made.

Additional Requirements.

6. A letter of approval from the Atlantic States Management, Inc. confirming compliance with the Palmetto Pointe Business Park ARB must be provided.
7. All comments provided by the DRC and Planning Commission for the Development Plan must be addressed to be compliant with this COA-HCOD approval and should this plan be changed based on the requirements of the Development Plan Review, a New Certificate of Appropriateness may be required.
8. Per the Applications Manual, a Town of Bluffton Sign Permit must be submitted to for review and approval.

ATTACHMENTS:

1. Application and Narrative
2. Proposed Architectural Plans
3. Proposed Landscape Plans
4. Proposed Lighting Plans
5. HVAC Details
6. DRC Comments for COFA
7. Section 5.15. Town of Bluffton Highway Corridor Overlay District as found in the BZDSO



ATTACHMENT 2

TOWN OF BLUFFTON
CERTIFICATE OF APPROPRIATENESS
HIGHWAY CORRIDOR OVERLAY APPLICATION

Growth Management Custom

Section VII. Item #1.

20 Bridge Street
Bluffton, SC 29910
(843)706-4500

www.townofbluffton.sc.gov

applicationfeedback@townofbluffton.com

Applicant		Property Owner	
Name: Amsdell Construction, LLC		Name: Amsdell Storage Ventures 81, LLC	
Phone: 216-458-0671		Phone: 216-458-0671	
Mailing Address: 20445 Emerald Pkwy, Ste 220 Cleveland, OH 44135		Mailing Address: 20445 Emerald Pkwy, Ste 220 Cleveland, OH 44135	
E-mail: jsteele@amsdellcompanies.com		E-mail: jsteele@amsdellcompanies.com	
Town Business License # (if applicable):			
Project Information			
Project Name: Compass Self Storage		Acreage: 3.21	
Project Address: 315 Gibbet Rd. and 20 Caine Dr., Bluffton, SC			
Zoning District: Jones Estate PUD			
Tax Map Number(s): R610 036 000 0459 0000 R610 036 000 0458 0000			
Project Description: Development of one 2-story climate-controlled self-storage building on each lot.			
Minimum Requirements for Submittal			
☒ 1. Mandatory Application Check-In meeting scheduled.			
☒ 2. Digital files drawn to scale of the Site Plan(s).			
☒ 3. Digital files drawn to scale of the Architectural Plan(s).			
☒ 4. Recorded deed and plat showing proof of property ownership.			
☒ 5. Project Narrative describing reason for application and compliance with the criteria in Article 3 of the UDO.			
☒ 6. Material samples and color swatches for all proposed materials.			
☒ 7. An Application Review Fee as determined by the Town of Bluffton Master Fee Schedule. Checks made payable to the Town of Bluffton.			
Note: A Pre-Application Meeting is required prior to Application submittal.			
Disclaimer: The Town of Bluffton assumes no legal or financial liability to the applicant or any third party whatsoever by approving the plans associated with this application.			
I hereby acknowledge by my signature below that the foregoing application is complete and accurate and that I am the owner of the subject property. As applicable, I authorize the subject property to be posted and inspected.			
Property Owner Signature: 		Owners Representative Date: 03/22/2024	
Applicant Signature: 		Date: 03/22/2024	
For Office Use			
Application Number:		Date Received:	
Received By:		Date Approved:	



TOWN OF BLUFFTON CERTIFICATE OF APPROPRIATENESS- HIGHWAY CORRIDOR OVERLAY (HCO) APPLICATION PROCESS NARRATIVE

Section VII. Item #1.

The following Process Narrative is intended to provide Applicants with an understanding of the respective application process, procedures and Unified Development Ordinance (UDO) requirements for obtaining application approval in the Town of Bluffton. While intended to explain the process, it is not intended to repeal, eliminate or otherwise limit any requirements, regulations or provisions of the Town of Bluffton's Unified Development Ordinance. The Town of Bluffton's Mission and Vision Statements help navigate staff to ensure that the goals outlined by Town Council are being met. As each project is being reviewed, Town staff will use the Mission Statement, Vision Statement, The Covenant for Bluffton and the current Strategic Plan to guide their review. Compliance with these procedures will minimize delays and assure expeditious application review.

Step 1. Pre-Application Meeting	Applicant & Staff
Prior to the filing of a Certificate of Appropriateness - HCO Application, the Applicant is required to consult with the UDO Administrator or their designee at a Pre-Application Meeting for comments and advice on the appropriate application process and the required procedures, specifications, and applicable standards required by the UDO.	
Step 2. Application Check-In Meeting	Applicant & Staff
Upon receiving input from Staff at the Pre-Application Meeting, the Applicant shall submit the Certificate of Appropriateness - HCO Application and required submittal materials during a mandatory Application Check-In Meeting where the UDO Administrator or designee will review the submission for completeness.	
Step 3. Review by UDO Administrator	Staff
If the UDO Administrator or designee determines that the Certificate of Appropriateness - HCO Application is complete, it shall be presented to the Planning Commission.	
Step 4. Planning Commission Meeting	Applicant, Staff & Planning Commission
The PC shall review the Certificate of Appropriateness - HCO Application for compliance with the criteria and provisions in the UDO. The PC may approve, approve with conditions, or deny the application.	
Step 5. Issue Certificate of Appropriateness	Staff
If the PC approves the Certificate of Appropriateness - HCO Application, the UDO Administrator or designee shall issue the Certificate of Appropriateness - HCO.	



May 22, 2024

Katie Peterson
Senior Planner
20 Bridge Street
P.O. Box: 386
Bluffton, South Carolina 29910

RE: Response to Plan Review Comments for COFA-03-24-019062

This letter is in response to the Planning Commission Committee Review Letter, dated April 25, 2024, for the Compass Self-Storage project, COFA-03-24-019062.

Growth Management Department

1. Both buildings A and B have 8'+ foundation plantings, except where there is access for doorways and loading area.
2. The side wall of the dumpster, detailed on sheet AS1.01, is made of smooth face block with a direct applied stucco finish to match the buildings, no CMU will be exposed on the outside of the dumpster enclosure.
3. The light fixtures provided are full cut-off fixtures. "The D-series Size 0 has zero uplight and qualifies as a Nighttime Friendly product, meaning it is consistent with the LEED and Green Globes criteria for eliminating wasteful uplight".

Planning Commissioner Review

1. Additional articulation has been added to the northern side of building B. A large window and awning have been added as well as wood lattice trellises with vegetation. Refer to sheet A2.2, and A3.2.
2. An updated RTU cut sheet has been provided with this submission. There is an 18" curb and the unit is 3'-8" tall. The parapet at both buildings has been raised to shield the units. Refer to sheets A2.1, A2.2, A3.1 and A3.2.
3. The square footage has been revised. Building A's square footage is 52,940 sf (26,470 sf footprint) and Building B's square footage is 56,458 sf (28,229 sf footprint).
4. Additional plantings have been provided along the building footprint. The following counts have been increased; Amelanchier x Laevis increased by 2, Hydrangea increased by 24, Pennisetum x Hameln increased by 55. Thirty Syringa x Miss Kim have also been added. Refer to sheet L1.10.

Storm Water Review

1. The bio-retention areas have been updated for clarity. The label has been removed from inside the area and pulled out with a leader line.



Regards,

Peter Stuhlreyer
Chief Architect
Designhaus, LLC

CC: Jonathan Steele (Owner), Jeffrey Ackerman (Civil Engineer)
Attachments: 24.05.24_Compass Bluffton_COFA Revisions, 25HCE-10PD (Carrier Mechanical Equipment), aff (Lighting Spec), EW38807 Spec Sheet (Lighting Spec), SA-Exterior Pole Light (Lighting Spec).

DRC and COFA Plan Review Comments

Planning Commission Review - COFA-03-24-019062

Reviewer	Comment	Response	Reference
Building Safety	1 Provide additional information regarding the required detectable warning devices and crosswalk to the ADA spaces for Lot 1.	Added detectable warnings at the approach to Caine Drive.	Civil Sheet 6 of 10. Paving and Grading Plan
Growth Management	1 The southwest side of the building closest to Hwy 170 do not meet the required 8' foundation planting requirement. Revise to meet the required foundation planting minimums. A landscaped buffer at least eight (8') feet wide shall be maintained between any structure and any parking or driving area, except for loading areas and areas where drive-through facilities are utilized. This space is to be reserved for plant material, either existing or planted. No such space is required at the rear of the buildings, but is encouraged. Sidewalks and handicap ramps may be placed adjacent to the buffer on either side. The buffer may be penetrated to provide for access to the building and is not required in loading areas. (ZDSO 90/3 Section 4.24.2.2.B.)	Revised foundation landscaping area to provide the required 8' separation with the exception of the areas that approach the doors and loading areas.	Sheet L1.10 - Landscape Plan
	2 Provide additional information on the "side wall" shown on AS1.01 for the location and material finish. Unfinished CMU is not a permitted material.	The side wall of the dumpster, detailed on sheet AS1.01, is made of smooth face block with a direct applied stucco finish to match the buildings, no CMU will be exposed on the outside of the dumpster enclosure.	Detail 2 on AS1.01
	3 Lights must be full cut-off fixtures. They are currently shown as forward thrown medium fixture. Revise to be full cut-off fixtures and update photometrics accordingly.	The light fixtures provided are full cut-off fixtures. "The D-series Size 0 has zero uplight and qualifies as a Nighttime Friendly product, meaning it is consistent with the LEED and Green Globes criteria for eliminating "wasteful uplight".	Lithonia Lighting cutsheet attached

ATTACHMENT 2

Section VII. Item #1.

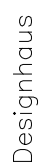
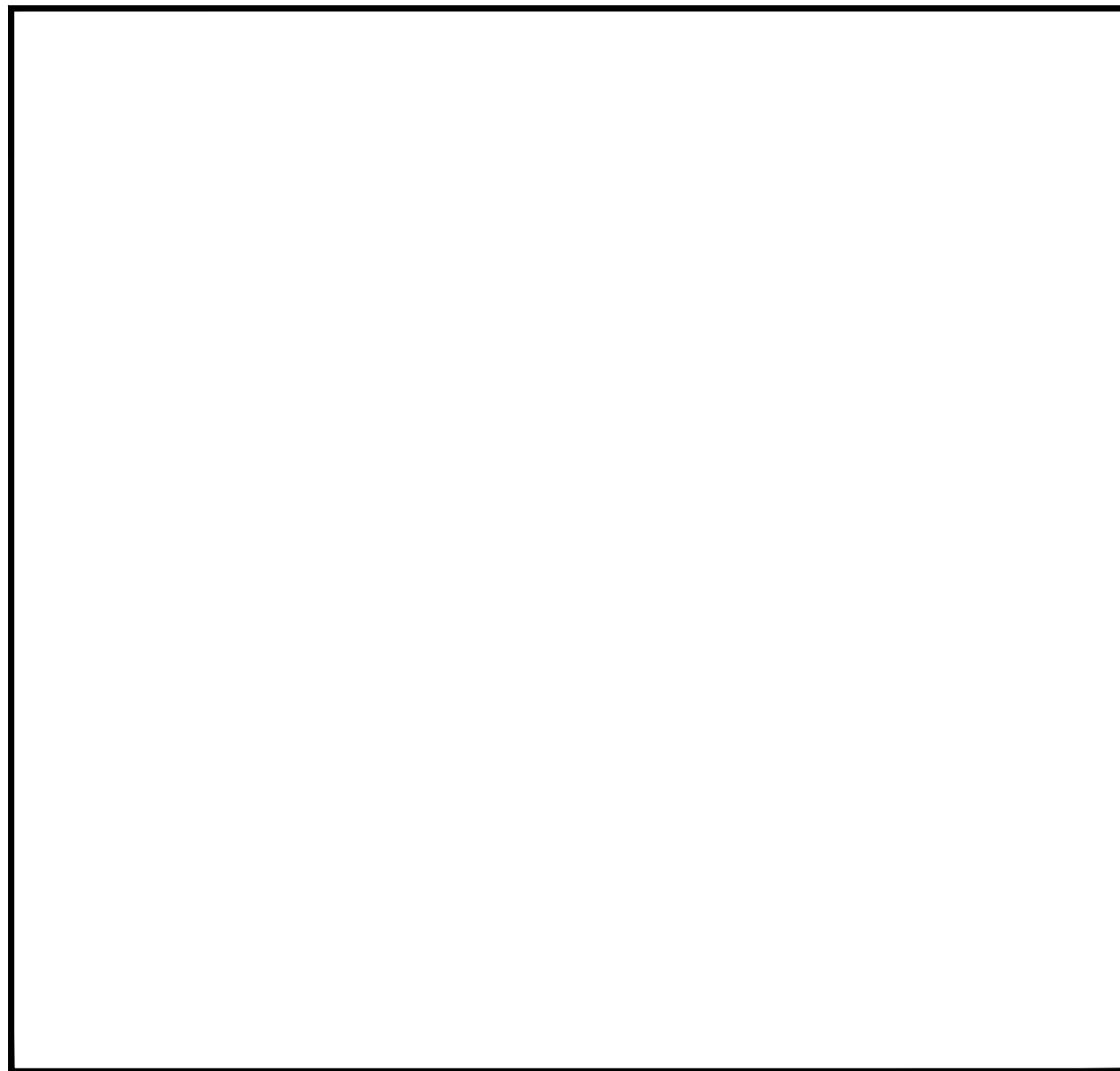
Reviewer	Comment	Response	Reference
Planning Commission	1 Provide additional articulation along the West elevations.	Additional articulation has been added to the northern side of building B. A large window and awning have been added as well as wood lattice trellises with vegetation.	Detail 2 on A2.2, and Detail 2 on A3.2.
	2 The HVAC submitted conflicts with itself and is not accurately shown based on the submittal package. The plans show large RTUs (roof top units) but they submitted an outdoor up to 5 ton unit cut sheets (which is the maximum size that system comes in). One building shows a 5 RTUs on the drawings, but the Applicant's load calcs show they would need at least 30 five ton systems on building A and 31 5 ton systems on building B. Provide updated, accurate HVAC information to ensure the placement will meet code requirements.	An updated RTU cut sheet has been provided with this submission. There is an 18" curb and the unit is 3'-8" tall. The parapet at both buildings has been raised to shield the units.	Refer to sheets A2.1, A2.2, A3.1 and A3.2.
	3 The square foot measurements vary throughout the drawings. For Building A: Page 11 indicates 58,940 SF for bld A while Page 13 indicates 52,940 SF For Building B: Page 12 indicates 59,174 SF while Page 13 indicates 56,458 SF. Provide updated information reflecting accurate SF Calculations for each.	The square footage has been corrected and coordinated. Building A's square footage is 52,940 sf (26,470 sf footprint) and Building B's square footage is 56,458 sf (28,229 sf footprint).	AS1.00
	4 Provide additional plantings with additional height in areas which may appear unarticulated. Landscape Plan was challenging to read as it appears scanned in. Not all markers are visible.	Additional plantings have been provided along the building footprint. The following counts have been increased; Amelanchier x Laevis increased by 2, Hydrangea increased by 24, Pennisetum x Hameln increased by 55. Thirty Syringa x Miss Kim have also been added.	L1.10
Stormwater	1 In the landscape plan, the western-most bioretention cell is labeled as "Retention Area" which is not accurate. Re-label this BMP as "bioretention".	The bio-retention areas have been updated for clarity. The label has been removed from inside the area and pulled out with a leader line.	L1.10

ATTACHMENT 2

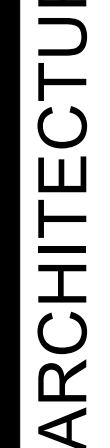
Section VII. Item #1.

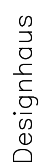
Reviewer	Comment	Response	Reference
	2 In the landscape plan, remove proposed trees from both the western and northern bioretention cells. Acceptable bioretention plants can be found in Table 4.7 (perennial & grasses) and Table 4.8 (shrubs & bushes) in Chapter 4.3.5 in the Southern Lowcountry Stormwater Design Manual.	Trees removed and relocated	L1.10

Bluffton, SC 29910



PLUMBING FIXTURES COUNT							
☐	REQUIRED	W.C.	LAV	DRAINING FOUNTAIN	SERVICE SINK	OTHERS	REMARKS 32 TOTAL OCCUPANTS 16 MEN 16 WOMAN WC - 1/25 OCCUPANTS LAVATORY - 1/40 OCCUPANTS DRAINING FOUNTAIN - 1/100 OCCUPANTS SERVICE SINK - 1
	MEN	1	1	1	1		
	WOMEN	1	1				
☐	PROVIDED	W.C.	LAV	DRAINING FOUNTAIN	SERVICE SINK	OTHERS	
	MEN	-	-				
	WOMEN	-	-	1	1		
	UNSEX	2	2				
☒ PLUMBING FIXTURES PROVIDED MEET OR EXCEED THE COUNTS IN THE TABLE ABOVE							
REMARKS 1 OCC. LOAD DETERMINED BY AFFIDAVIT FROM OWNER 2 GOOD SERVICE HAND SINKS PER HEALTH DEPT 3 RESTROOMS FOR POOLS PER STATE STANDARDS 4 RESTROOMS FOR CHILD CARE PER STATE STANDARDS 5 RESTROOMS FOR CAMPS PER STATE STANDARDS 6 COUNT IS BASED PER PERSON OR FRACTION THEREOF 7 OCC. LOAD FOR SEASONAL SEATING IS INCLUDED 8 D.F. NOT REQUIRED FOR IS OR FEWER OCCUPANTS 9 8-6 M USE - SS NOT REQUIRED FOR IS OR FEWER OCC. 10 SEPARATE FACILITIES NOT REQUIRED FOR SPACES INTENDED FOR PRIVATE USE STRUCTURES WITH IS OR FEWER OCCUPANTS M USE WITH 50 OR FEWER OCCUPANTS 11 DOORS IN BATH ENCLOSURES PER ASME A112.19.5 12 DRAINING FOUNTAINS SHALL BE H/L 10 STYLE 13 URINALS CAN SUBSTITUTE FOR 67% OF W.C. 14 UNSEX RESTROOMS ARE PERMITTED FOR SEP. FAC. 15 RESTROOMS SHALL BE WITHIN 1 STORY 16 1 KITCHEN SINK REQUIRED PER DWELLING UNIT 17 1 CLOTHES WASHER CONNECTION PER 20 UNITS 18 - 19 - 20 -							

	
3300 AUBURN RD., SUITE 300 AUBURN HILLS, MI 48326 T: 248.601.4422 F: 248.453.5854 WWW.DESIGNHAUS.COM INFO@DESIGNHAUS.COM	
####	####
SPA Resubmittal #4	24.05.22
SPA Resubmittal	24.04.29
SPA Resubmittal	24.03.22
SPA Resubmittal	24.01.23
SPA Submittal	23.01.23
ISSUANCE	DATE
 <i>Peter Stuhldreier</i>	
	
Compass Self Storage 315 Gibbet Rd and 20 Cane Dr. Bluffton, SC 29910	Building A Code Data
022129	
G2.1	



PLUMBING FIXTURES COUNT						REMARKS	
☐ REQUIRED	W.C.	LAV	BROWNING FOUNTAIN	SERVICE SINK	OTHERS		
MEN	-	-	-	-	-		24 TOTAL OCCUPANTS 12 MEN 12 WOMAN
WOMEN	-	-	-	-	-		WC - 1/25 OCCUPANTS LAVATORY - 1/40 OCCUPANTS
☐ PROVIDED	W.C.	LAV	BROWNING FOUNTAIN	SERVICE SINK	OTHERS	BROWNING FOUNTAIN - 1/100 OCCUPANTS SERVICE SINK - 1	
MEN	-	-	-	-	-		
WOMEN	-	-	-	-	-		
UNSEX	-	-	-	-	-		

1X PLUMBING FIXTURES PROVIDED MEET OR EXCEED THE COUNTS IN THE TABLE ABOVE

REMARKS	
1 O.C. LOAD DETERMINED BY AFFIDAVIT FROM OWNER	11 ODDER IN BATH ENCLOSURES PER ASME A12.19.15
2 FLOOR SERVICE HAND SINKS PER HEALTH DEPT	12 DRINKING FOUNTAINS SHALL BE 1/10 LD STYLE
3 RESTROOMS FOR POOLS PER STATE STANDARDS	13 URINALS CAN SUBSTITUTE FOR 67% OF W.C.
4 RESTROOMS FOR CHILD CARE PER STATE STANDARDS	14 UNSEX RESTROOMS ARE PERMITTED FOR SEF. FAC.
5 RESTROOMS FOR CAMPUS PER STATE STANDARDS	15 RESTROOMS SHALL BE WITHIN 1 STORY
6 COUNTER IS BASED PER PERSON OR FRACTION THEREOF	16 1/4 HOTCHEN SINK REQUIRED PER DWELLING UNIT
7 O.C. LOAD FOR SEASONAL SEATING IS INCLUDED	17 1 CLOTHES WASHER CONNECTION PER 20 UNITS
8 D.F. NOT REQUIRED FOR IS OR FEWER OCCUPANTS	18 -
9 8-6 M USE - SS NOT REQUIRED FOR IS OR FEWER OCC.	19 -
10 SEPARATE FACILITIES NOT REQUIRED FOR SPACES INTENDED FOR PRIVATE USE	20 -
STRUCTURES WITH IS OR FEWER OCCUPANTS	
M USE WITH 50 OR FEWER OCCUPANTS	

PLAN LEGEND

OCCUPANT LOAD

NO SCALE

FIRST FLOOR: OCCUPANCY LOAD DIAGRAM

SECOND FLOOR: OCCUPANCY LOAD DIAGRAM

Designhaus
5/22/2024
G2.1 Building B Code Data.dwg



BUILDING DATA

Building A	1st Floor	26,470 SF
	2nd Floor	26,470 SF
	Total	52,940 SF
Building B	1st Floor	28,229 SF
	2nd Floor	28,229 SF
	Total	56,458 SF
Gross Total		108,170 SF

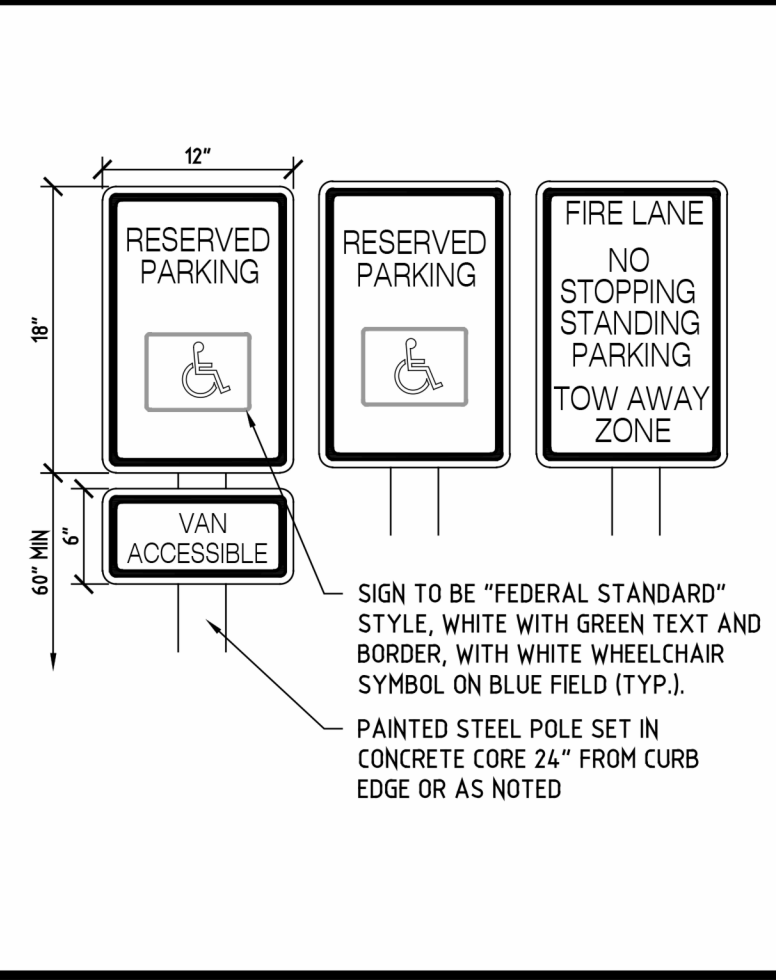
SITE DATA

Regulation	Information
Parcel I.D.	R610 036 000 0459 0000 R160 036 000 0458 0000
Address	315 Gibbet Rd. / 20 Cane Dr. (SEQ Okatie Hwy & Gibbet Rd.)
Zoning	LI Light Industrial
Parcel Area	+/- 130,347 Gross Sq.Ft. (3.19 Acres) 124,110 Net Sq. Ft. (2.85 Acres)

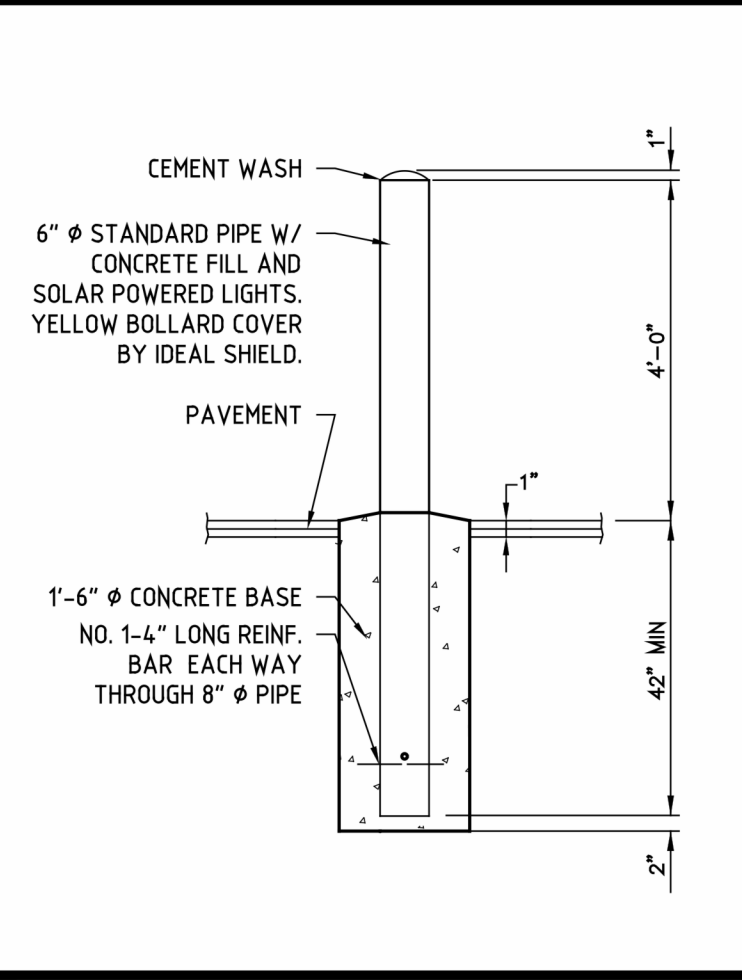
ZONING SCHEDULE OF REGULATIONS

Regulation	LI - Light Industrial
Setbacks	Front: 10' Side: 10' Rear: 30'
Building Height	1-5 Stories
Coverage / Openspace	Proposed Building Foot Print: Bldg. A: 26,470 Sq. Ft. Bldg. B: 28,229 Sq. Ft. Total Building SF: Bldg. A: 52,940 Sq. Ft. Bldg. B: 56,458 Sq. Ft. Total Building Combined SF: 109,398 G.F.S. Maximum Lot Coverage - 75% Combined Proposed Building Foot Print: 54,699 Sq. Ft. Combined Impervious: 25,333 Sq. Ft. Combined Total Coverage: 80,032 Sq. Ft. Provided Coverage - Combined: 61.4% Minimum Open Space - 20% Pervious: 38.6%, 50,315 Sq. Ft.
Parking Required:	1 Space/ 1 Employee 108,170 SF / 10,000 SF GFS = 10.93=10.8 Total parking spaces required =11 Total parking spaces provided =19 3 ADA spaces (N) Number of parking spaces in the rows

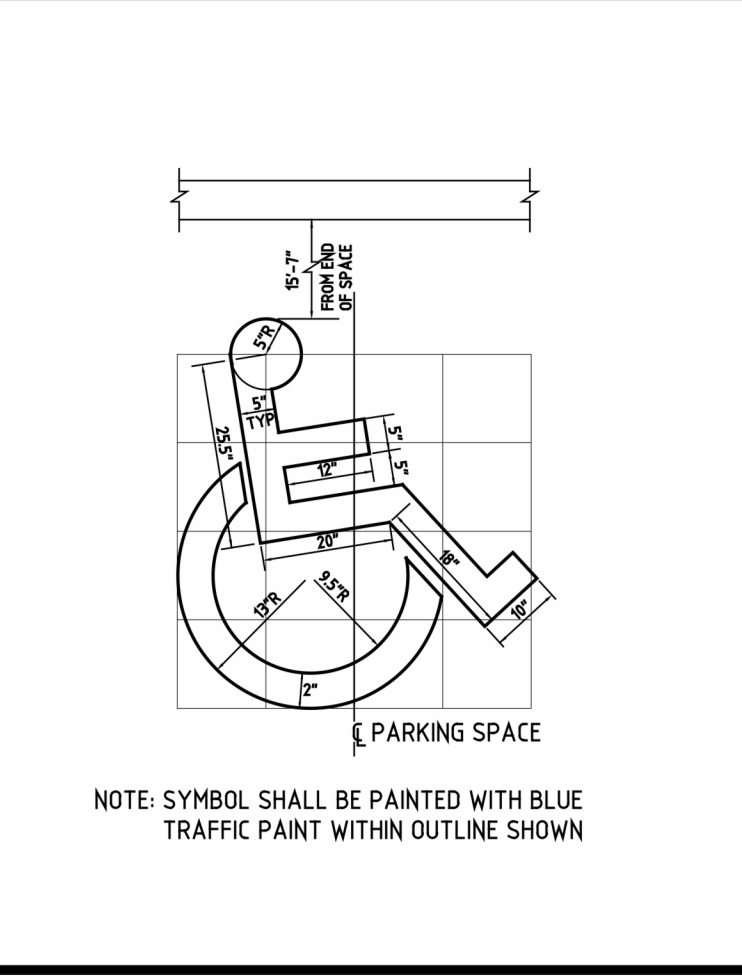
HANDICAP SIGN DETAIL



BOLLARD DETAIL



PARKING SPACE PAINT DETAIL



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DESIGNHAUS ARCHITECTURE

SPA Resubmittal #4	24.05.22
SPA Resubmittal	24.04.29
SPA Resubmittal	24.03.22
SPA Resubmittal	24.03.22
SPA Submittal	23.01.23
Revision/Issue	Date

STATE OF SOUTH CAROLINA
PETER STUHLREYER
No. 9824
REGISTERED ARCHITECT

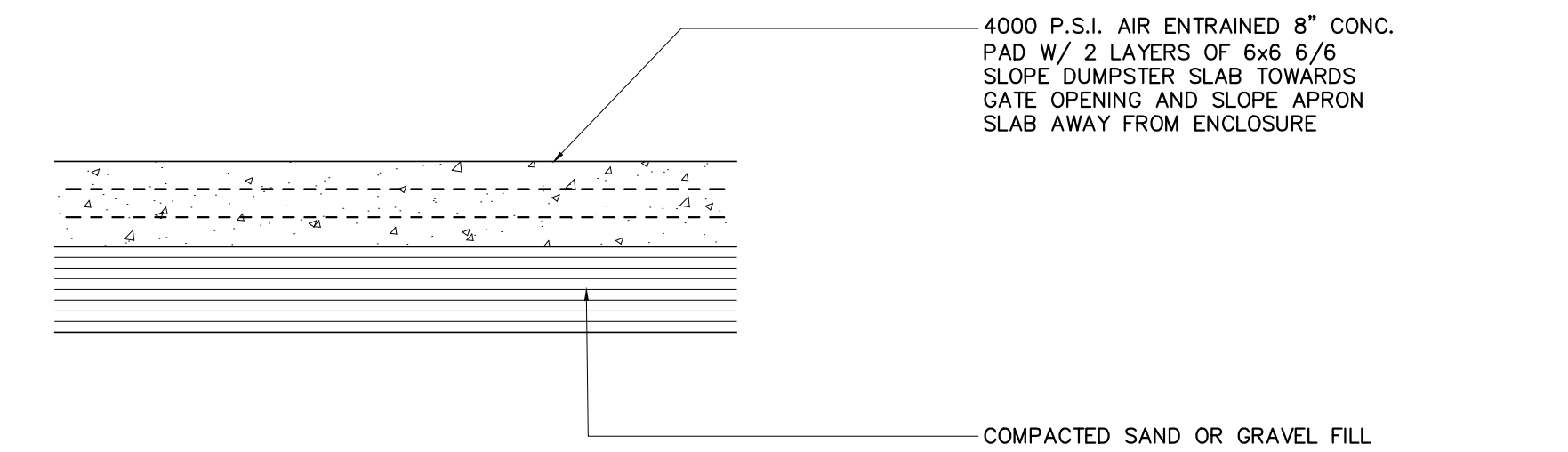
STATE OF SOUTH CAROLINA
DESIGNHAUS LLC
AUBURN HILLS, MI
No. 102021
REGISTERED ARCHITECT

Compass Self Storage
316 Gibbet Rd and 20 Cane Dr
Bluffton, SC 29910

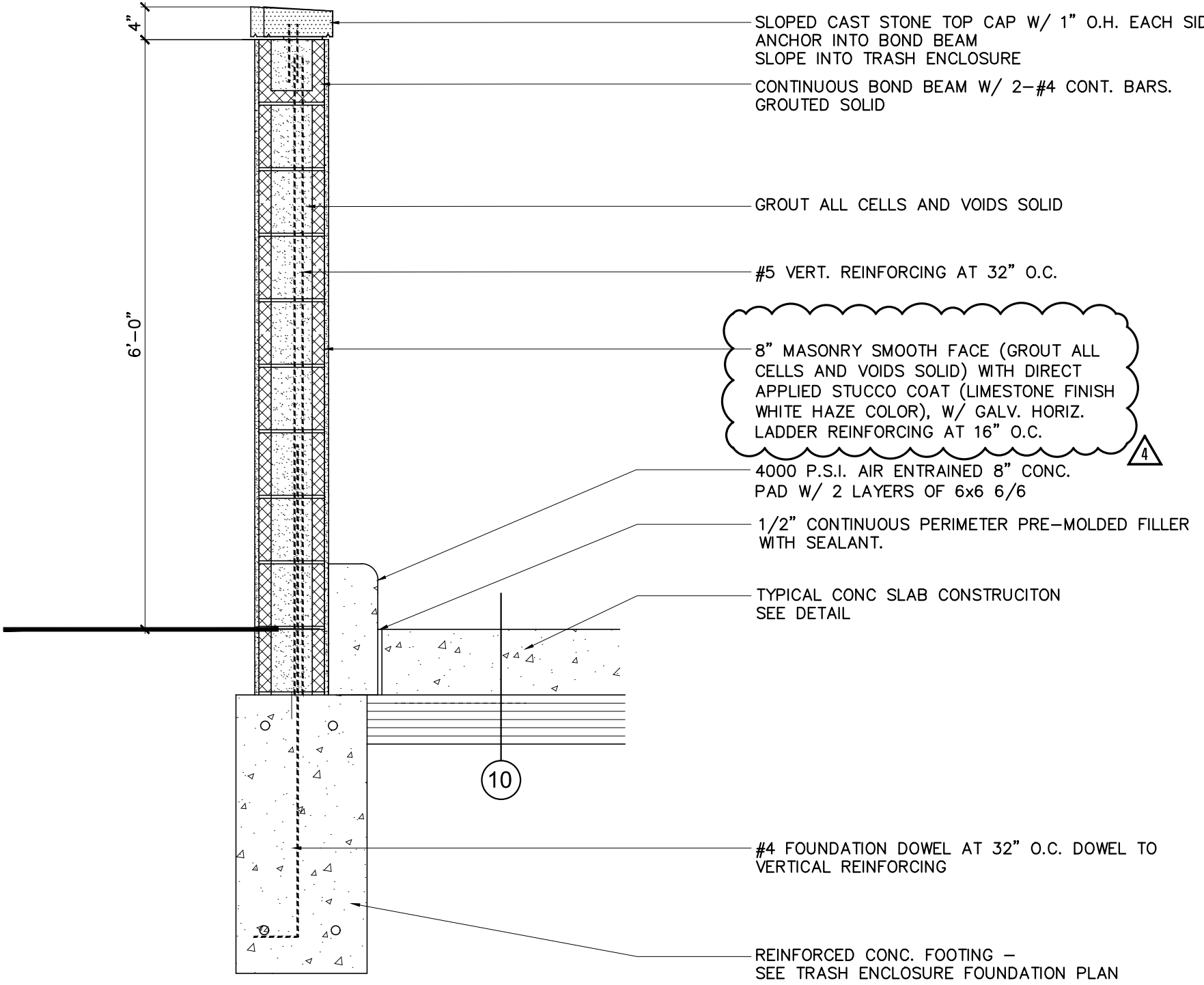
Architectural Site Plan

022129

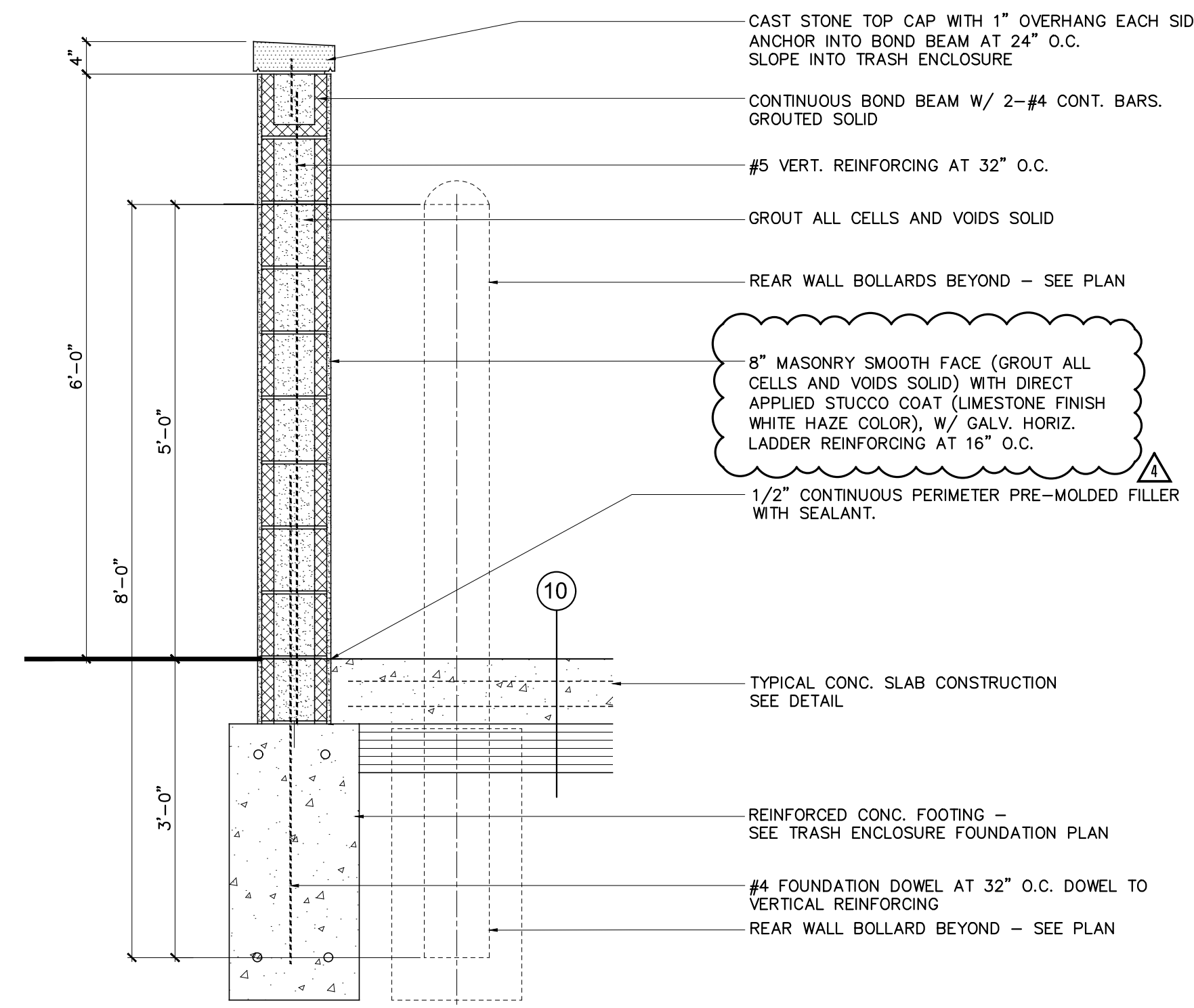
AS1.00



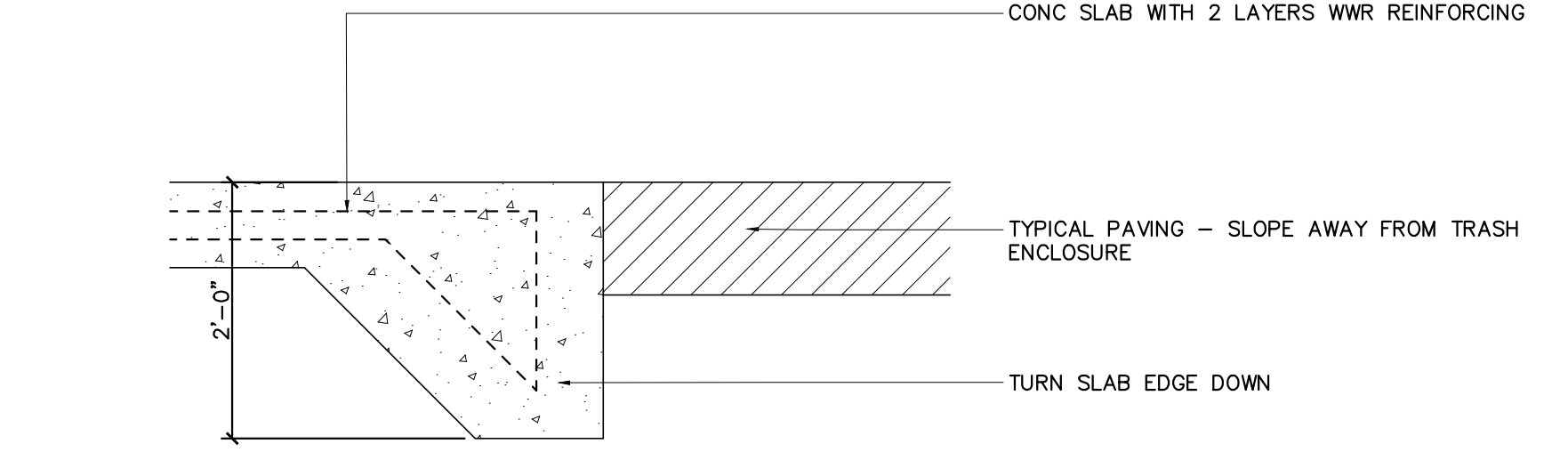
10 TYPICAL SLAB DETAIL NO SCALE



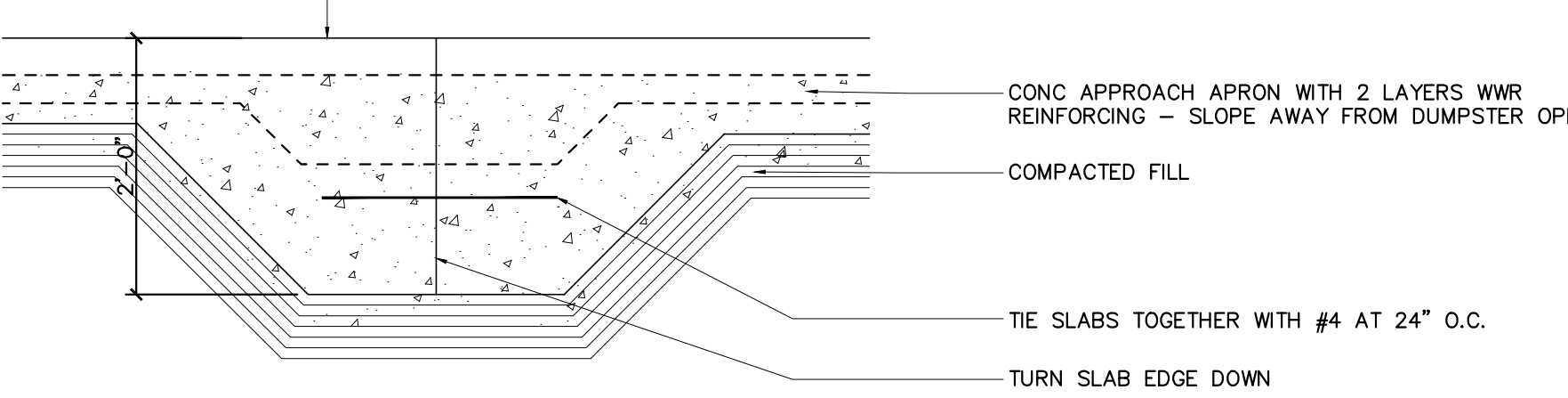
9 SIDE WALL SECTION NO SCALE



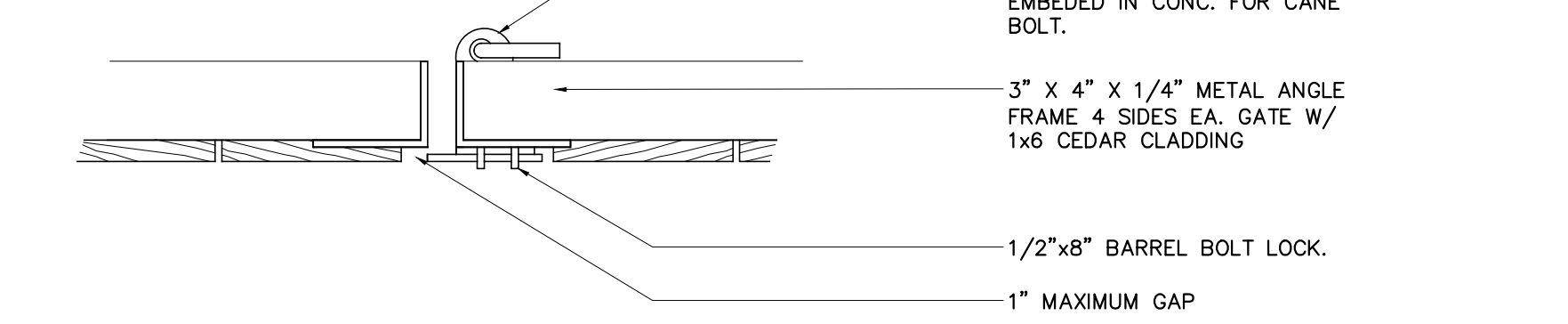
8 REAR WALL SECTION NO SCALE



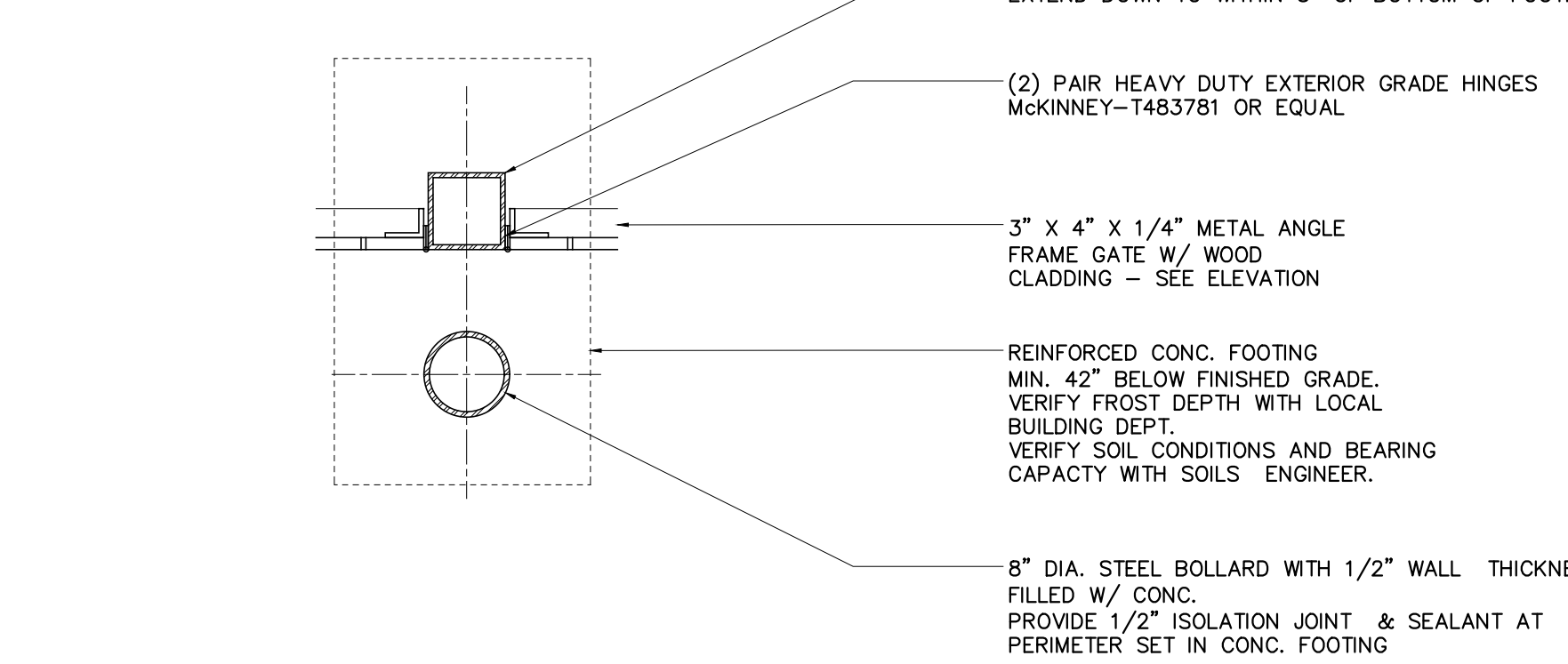
7 DETAIL AT END OF APRON NO SCALE



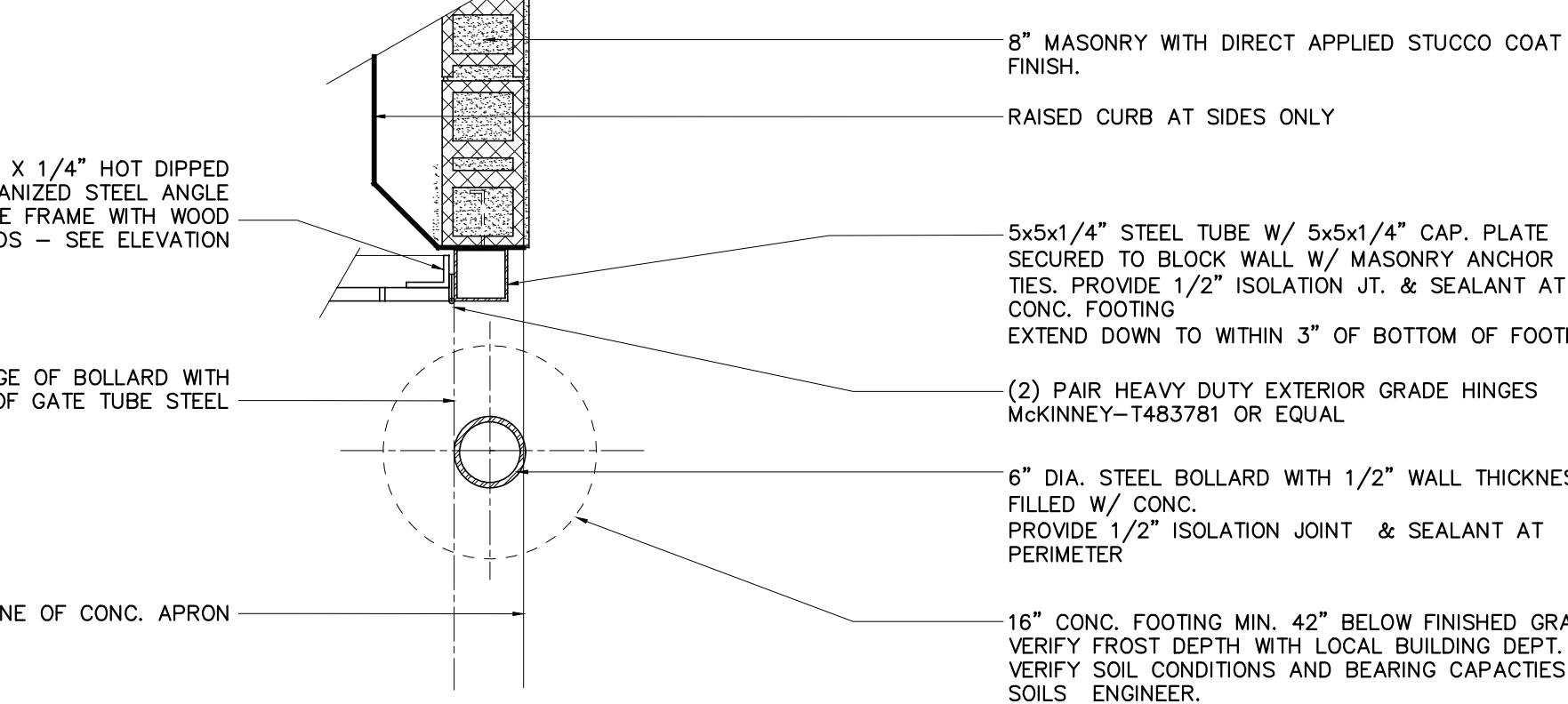
6 DETAIL AT DUMPSTER SLAB AND APRON INTERSECTION NO SCALE



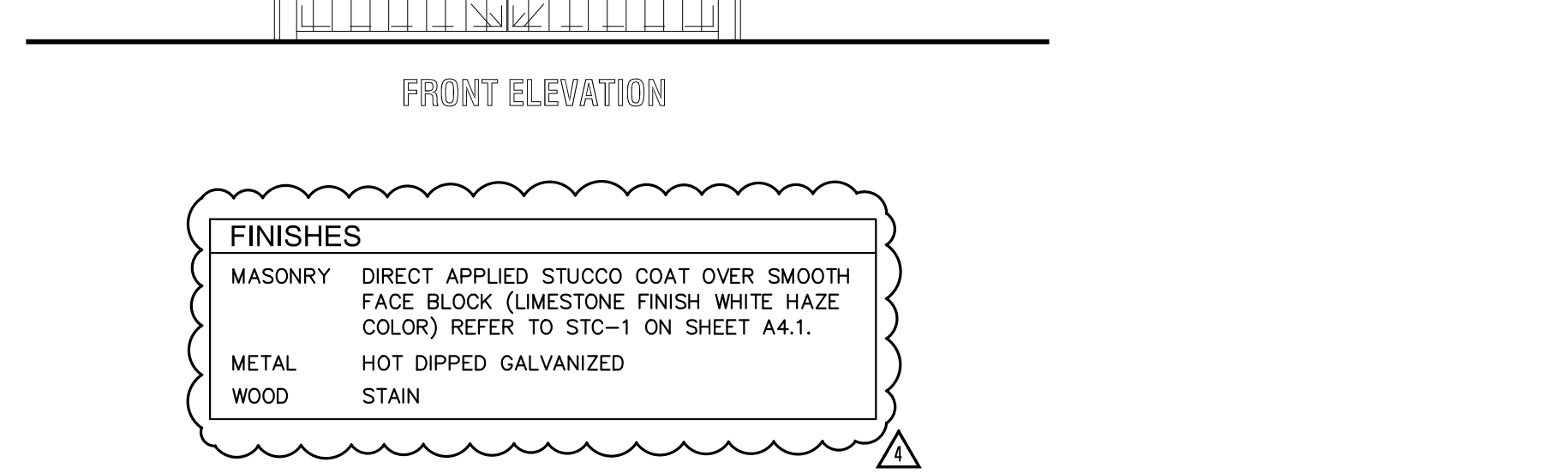
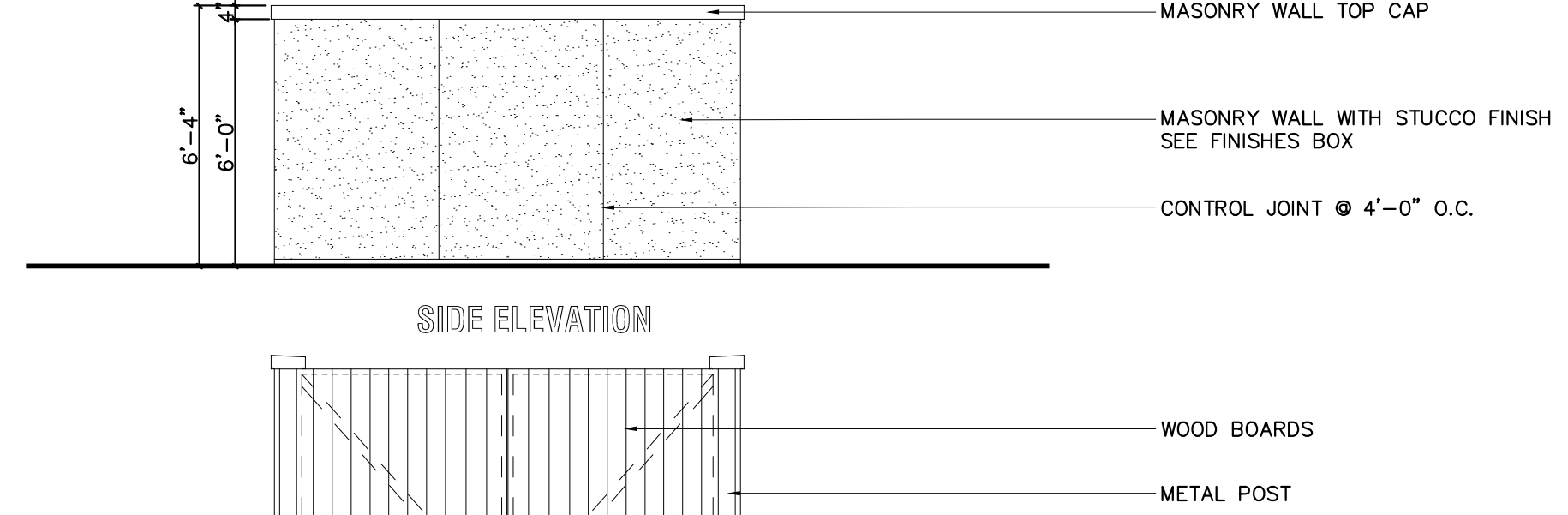
5 DETAIL AT GATE LATCH NO SCALE



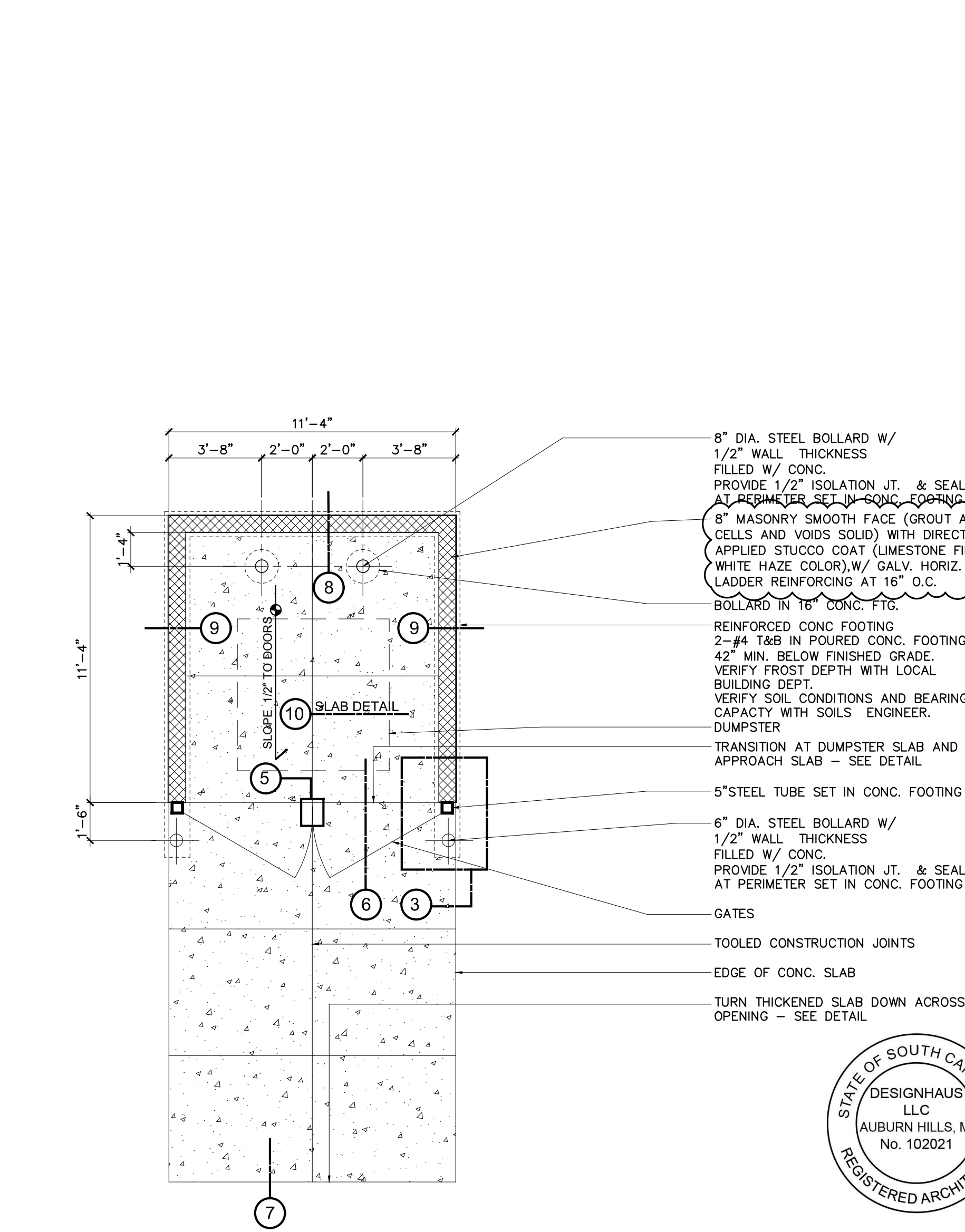
4 DETAIL AT STEEL CENTER TUBE / GATE HINGE NO SCALE



3 DETAIL AT STEEL END TUBE / GATE HINGE NO SCALE



2 TRASH ENCLOSURE ELEVATIONS SCALE: 1/4"=1'-0"



1 TRASH ENCLOSURE PLAN SCALE: 1/4"=1'-0"

DESIGNHAUS ARCHITECTURE

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SPA Resubmittal #4	24.05.22
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SPA Submittal	23.01.23
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STATE OF SOUTH CAROLINA
PETER STUHLREYER
No. 9824
REGISTERED ARCHITECT

Compass Self Storage
315 Gibbet Rd and 20 Cane Dr
Bluffton, SC 29910

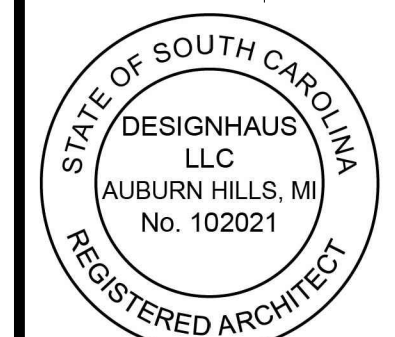
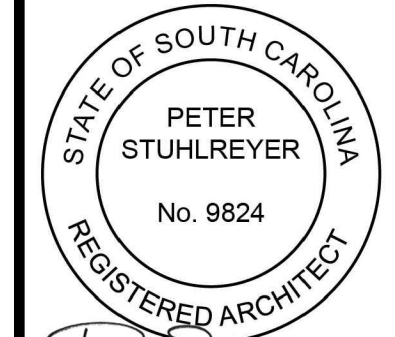
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Dumpster Enclosure Details



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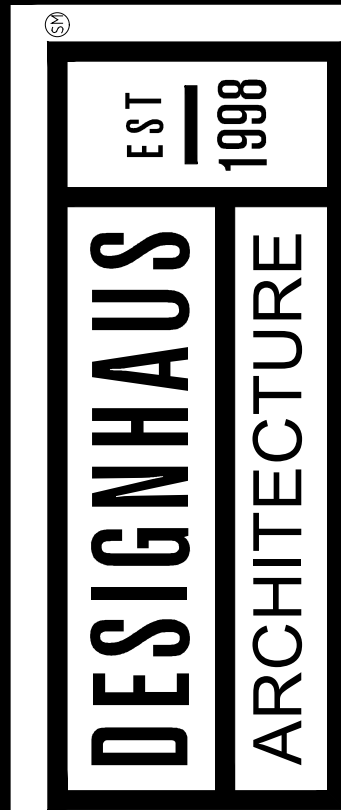
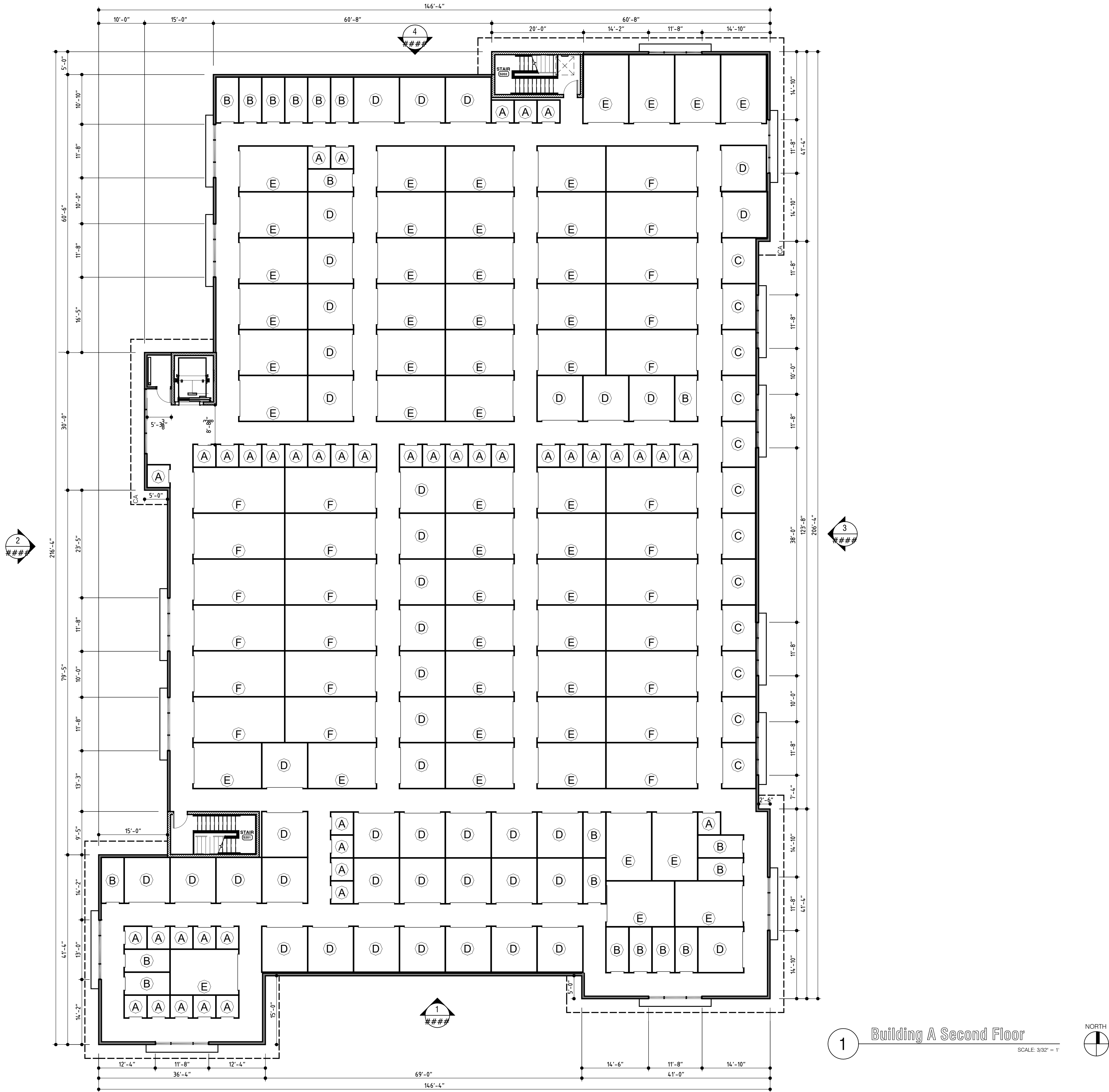
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Compass Self Storage
315 Gibbet Road and 20 Cane Dr
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Building A First Floor

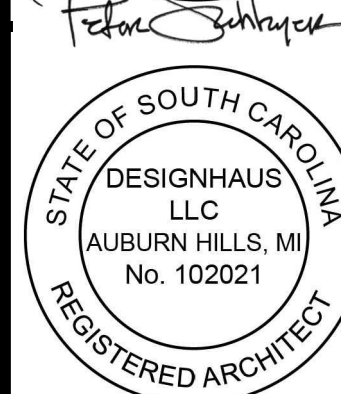
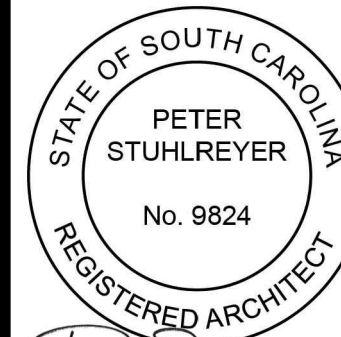
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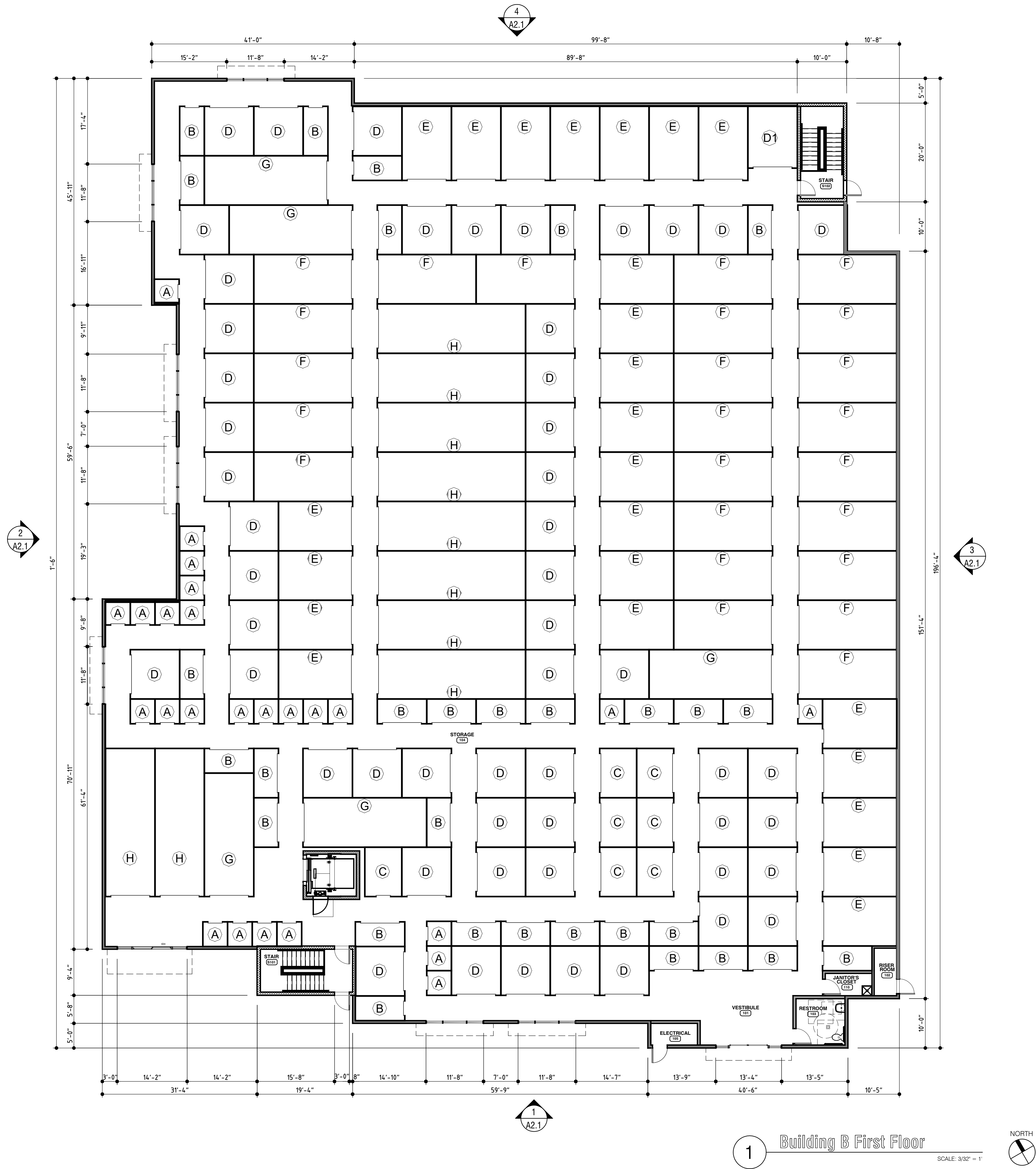
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SPA Resubmittal #4	24.05.24
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ISSUANCE	DATE



Compass Self Storage
315 Gibbet Road and 20 Cane Dr
Bluffton, SC 29910
Building A Second Floor

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A1.2



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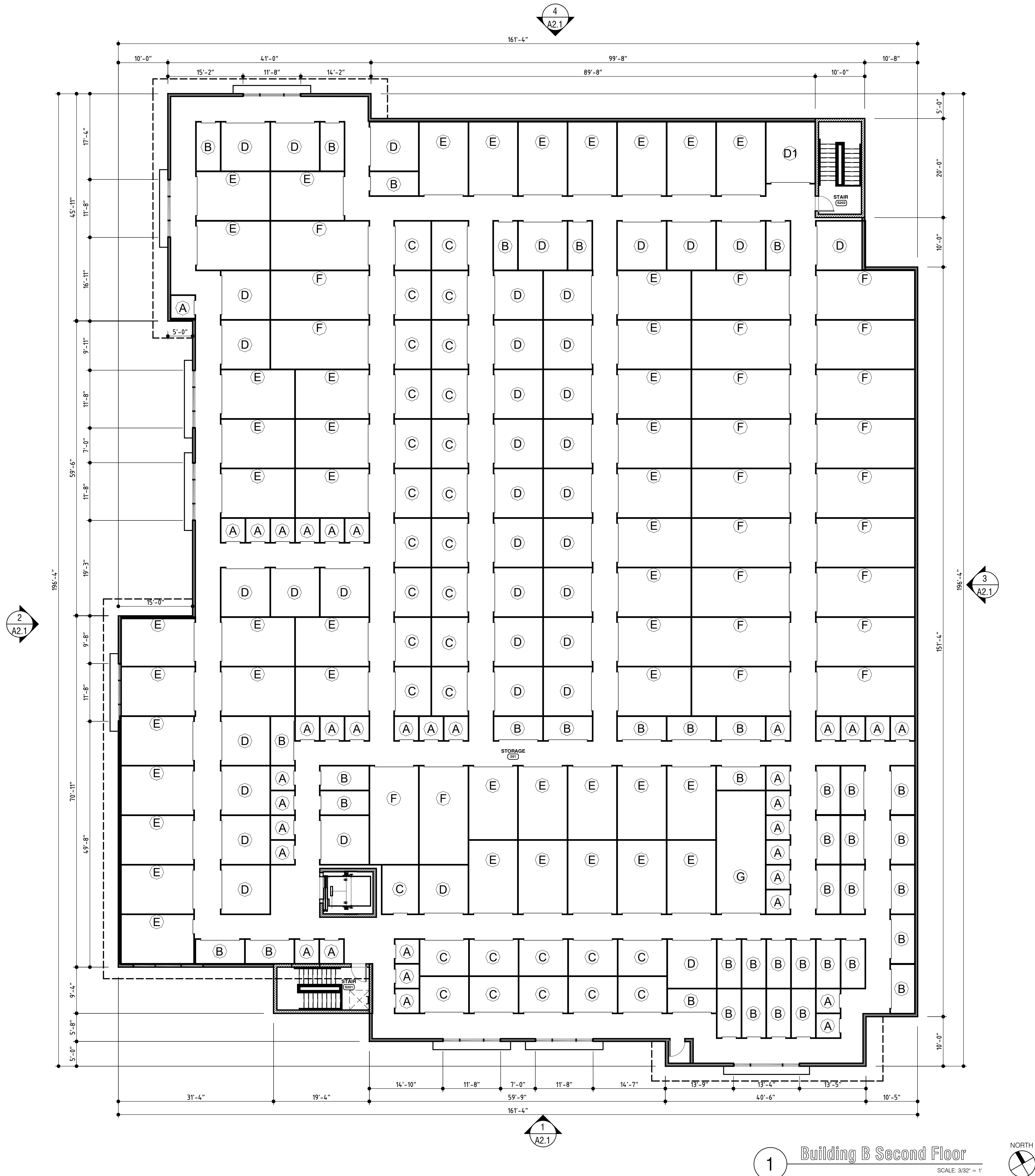
STATE OF SOUTH CAROLINA
PETER
STUHLREYER
No. 9824
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
DESIGNHAUS
LLC
AUBURN HILLS, MI
No. 102021
REGISTERED ARCHITECT

Compass Self Storage
315 Gibbet Road and 20 Cane Dr
Bluffton, SC 29910
Building B First Floor

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A1.3



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ISSUANCE	DATE

STATE OF SOUTH CAROLINA

PETER STUHLREYER

No. 9824

REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA

DESIGNHAUS LLC

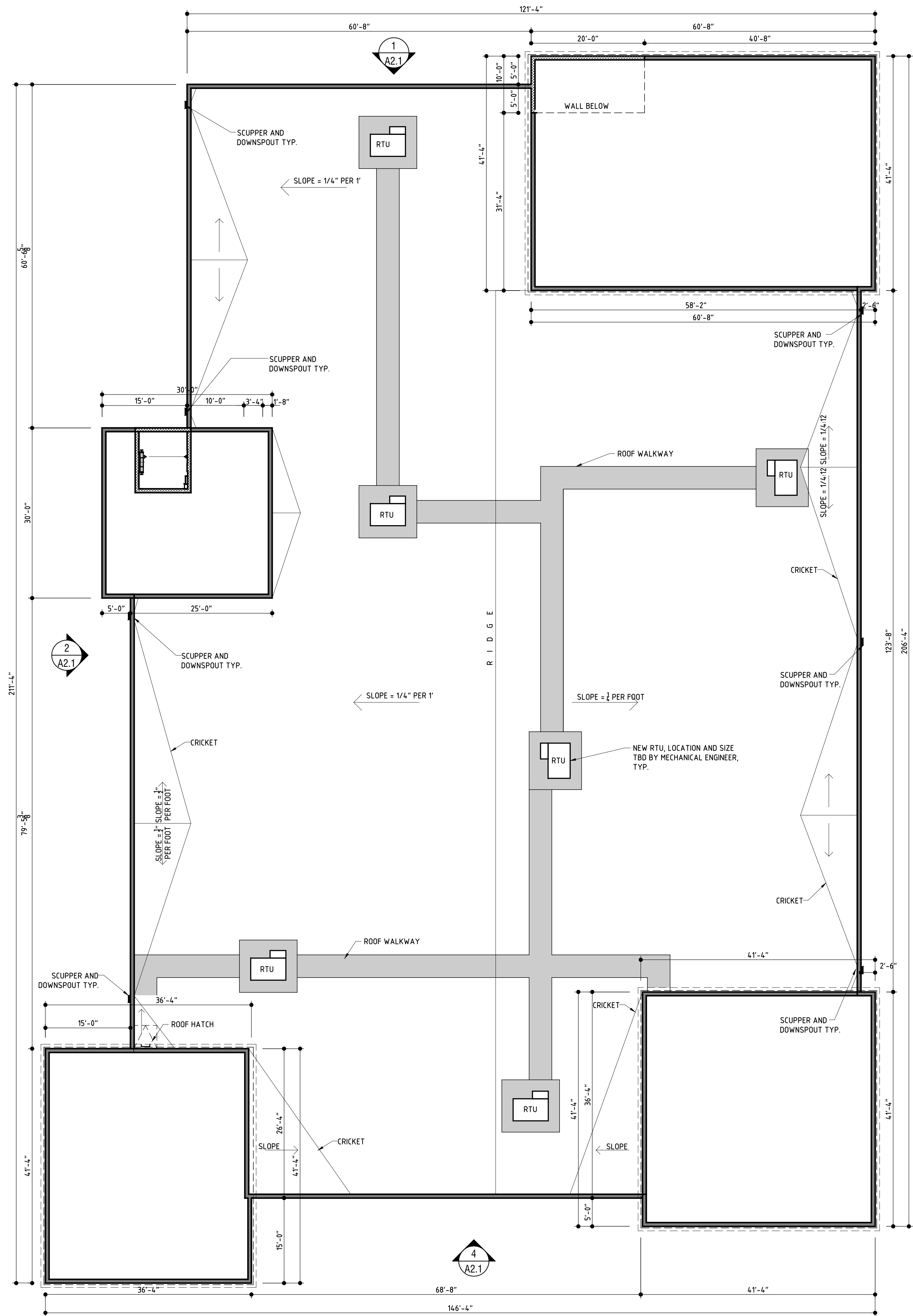
AUBURN HILLS, MI

No. 102021

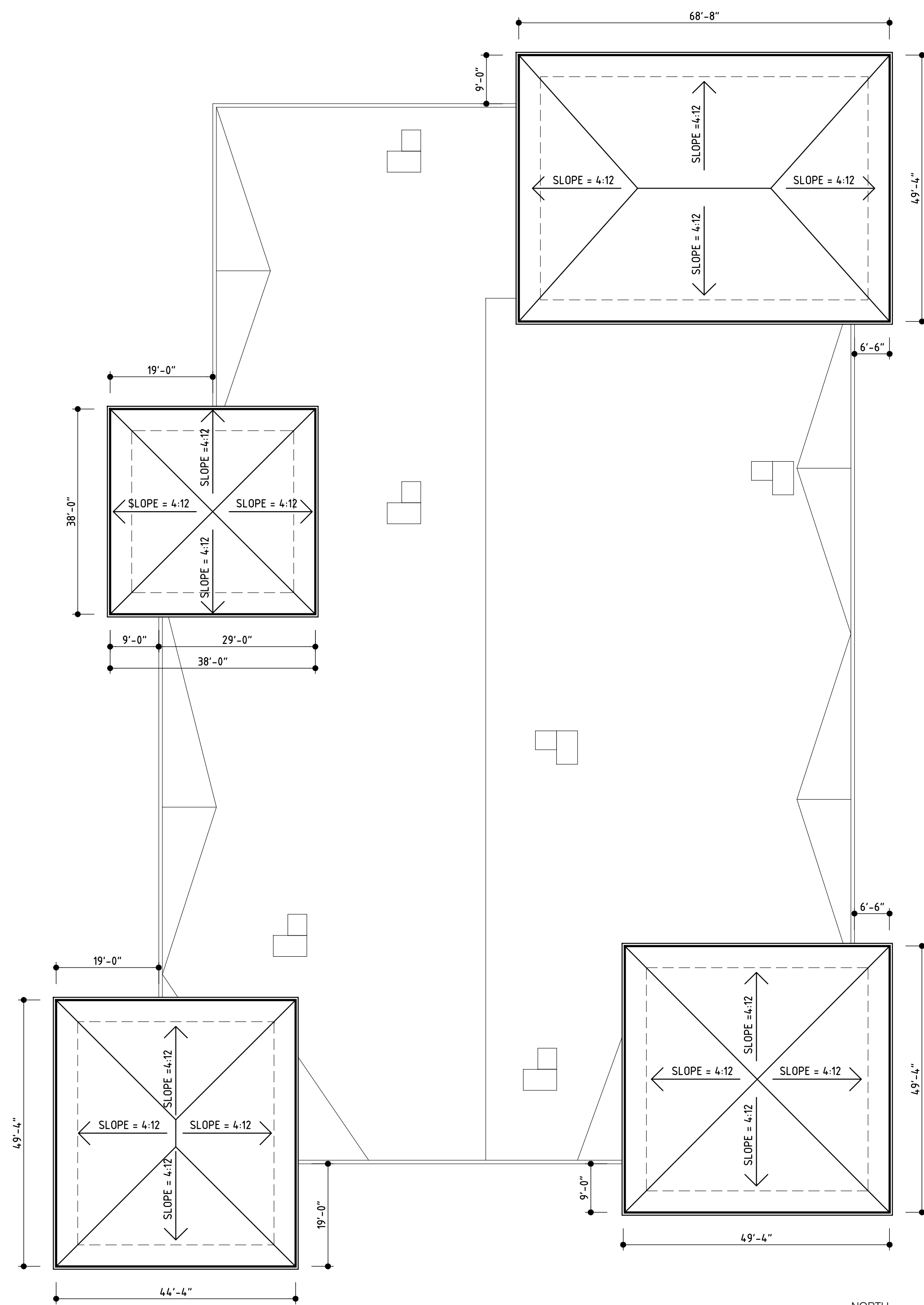
REGISTERED ARCHITECT

Compass Self Storage
315 Gibbet Road and 20 Cane Dr
Bluffton, SC 29910
Building B Second Floor

022129
A1.4



1 Building A Roof Plan
SCALE: 3/32" = 1'



2 Upper Roof Plan
SCALE: 1/16" = 1'

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ARCHITECTURE

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STATE OF SOUTH CAROLINA
PETER STUHLREYER
No. 9824
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
DESIGNHAUS LLC
AUBURN HILLS, MI
No. 102021
REGISTERED ARCHITECT

Compass Self Storage
315 Gibbet Road and 315 Gibbet Rd
Bluffton, SC 29910
Building A Roof Plan

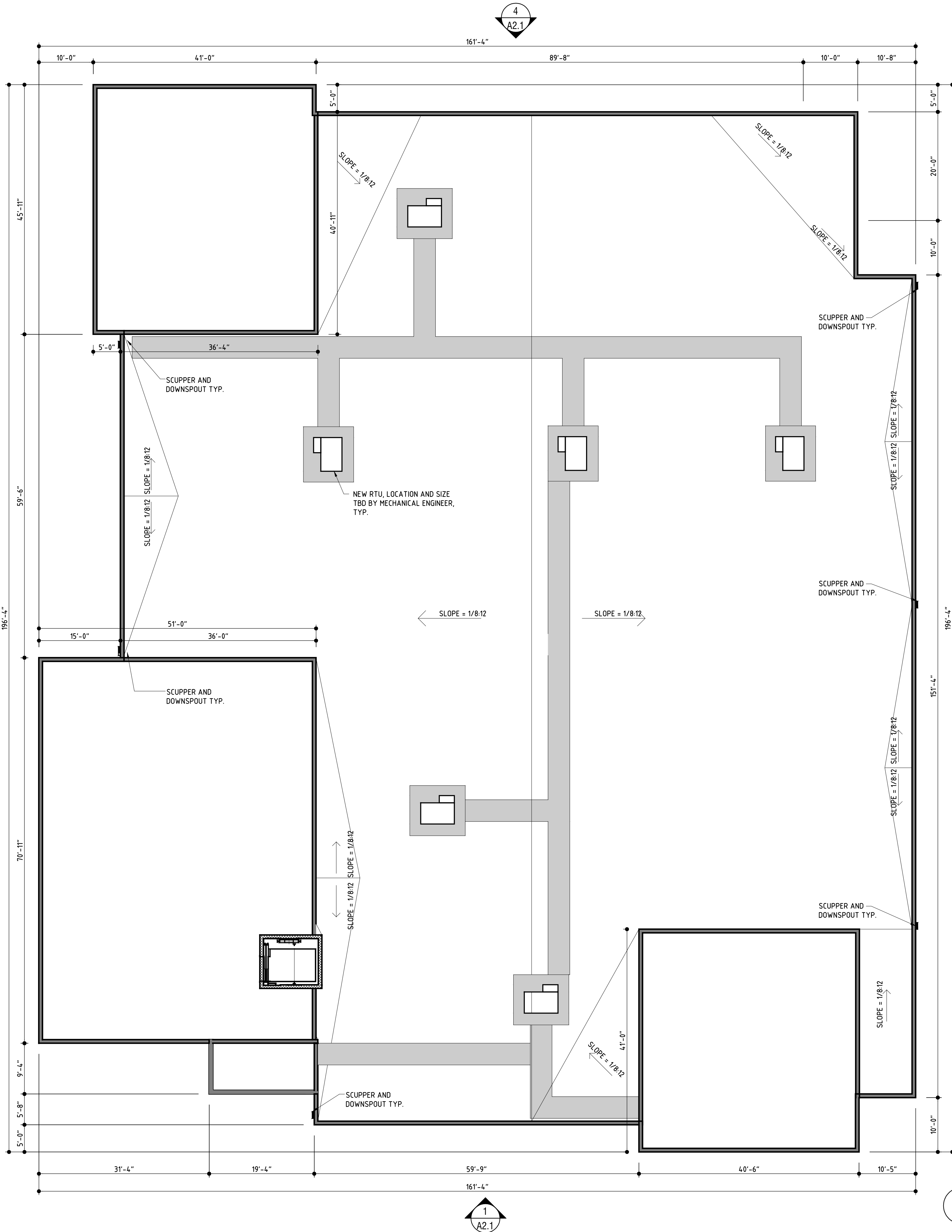
022129
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A1.6 Building B Roof Plan.dwg

5/22/2024

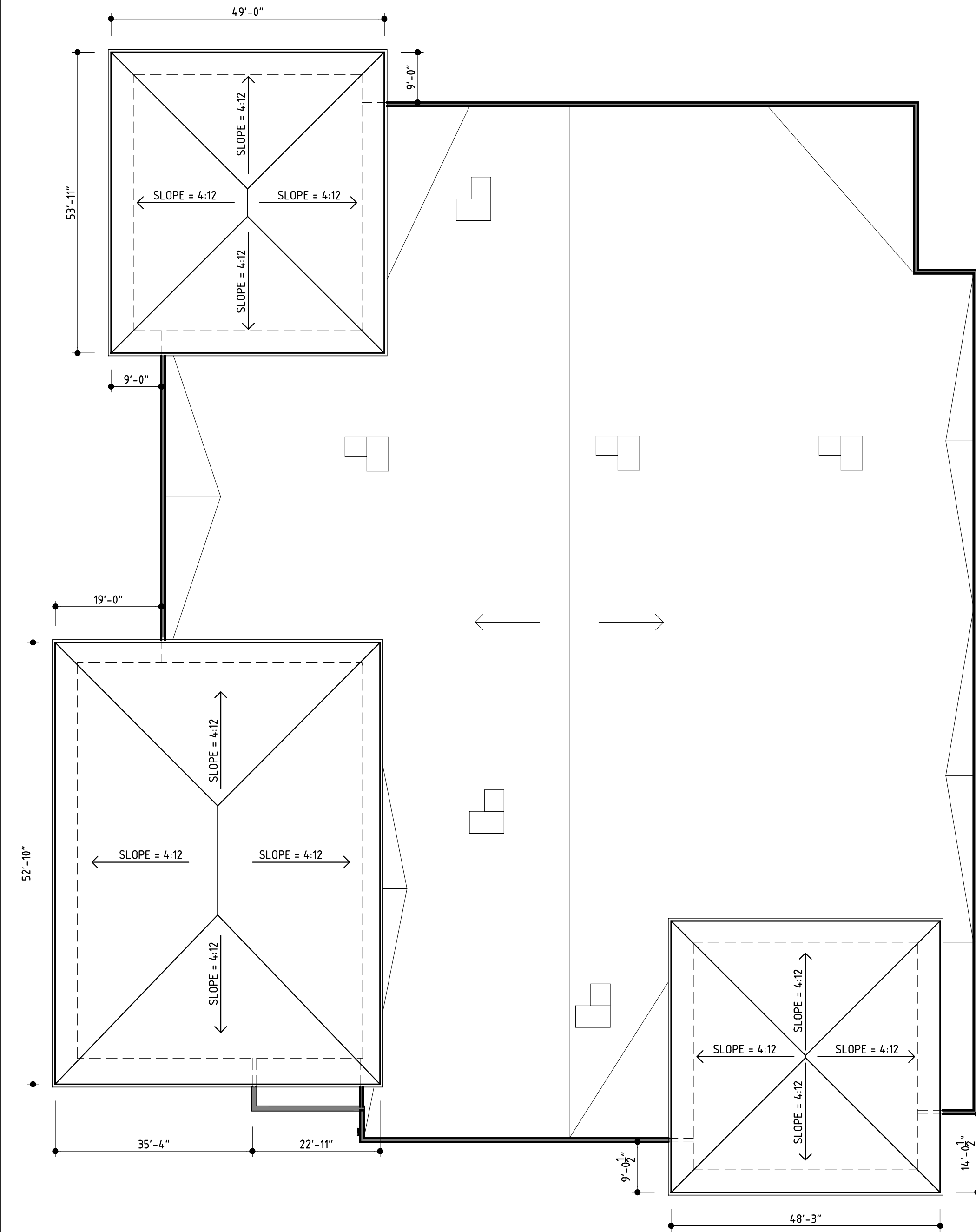
Designhaus

2
A2.1



1 Building B Roof Plan
SCALE: 3/32" = 1'

2 Upper Roof Plan
SCALE: 1/16" = 1'



3
A2.1

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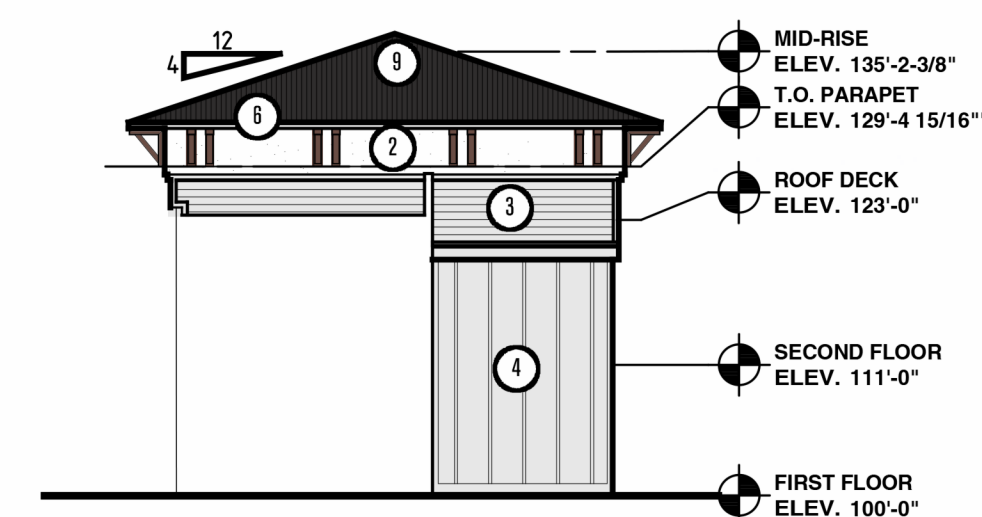
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STATE OF SOUTH CAROLINA
PETER STUHLREYER
No. 9824
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
DESIGNHAUS LLC
AUBURN HILLS, MI
No. 102021
REGISTERED ARCHITECT

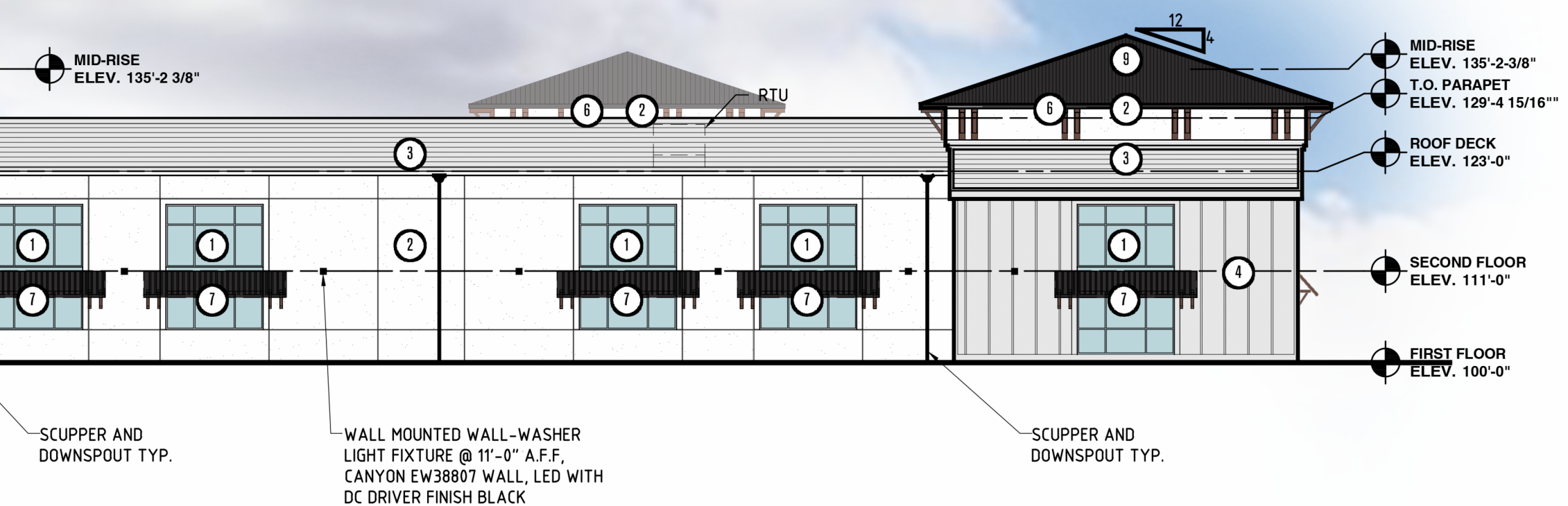
Compass Self Storage
315 Gibbet Road and 20 Cane Dr
Bluffton, SC 29910
Building B Roof Plan

022129
A1.6

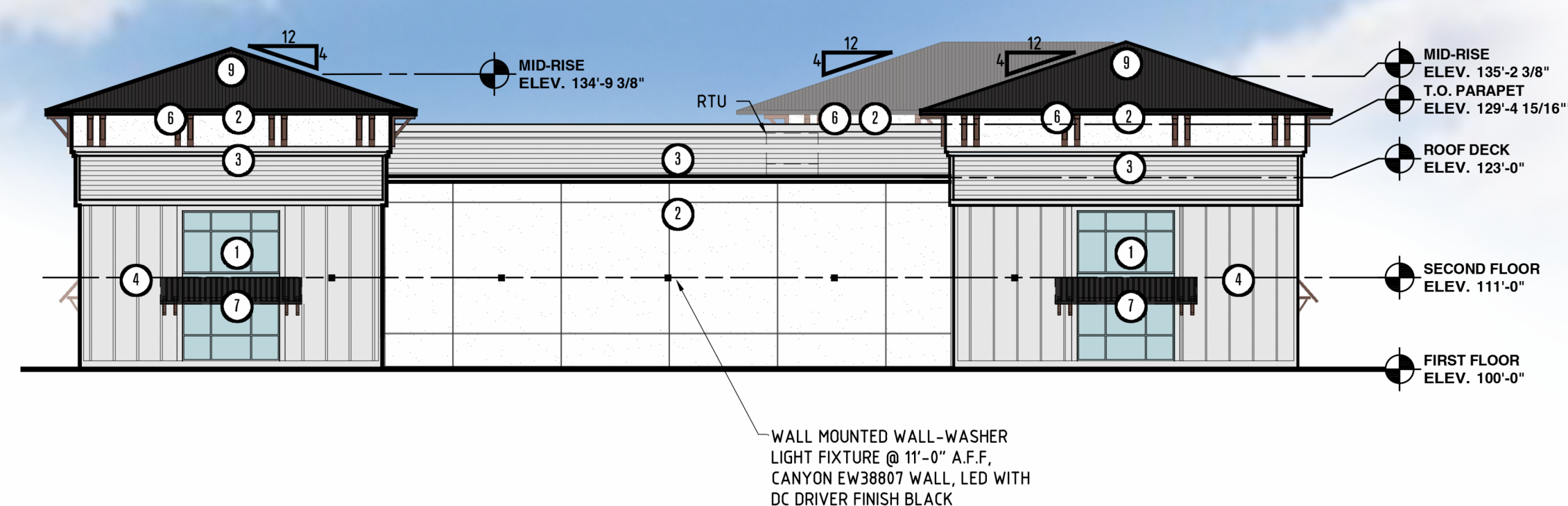


5 BUILDING A TOWER ELEVATION

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3 BUILDING A EAST ELEVATION



1 BUILDING A SOUTH ELEVATION

STATE OF SOUTH CAROLINA
PETER
STUHLREIER
No. 9824
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
DESIGNHAUS
LLC
AUBURN HILLS, MI
No. 102021
REGISTERED ARCHITECT

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STATE OF SOUTH CAROLINA
PETER
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REGISTERED ARCHITECT



Compass Self Storage
20 Cane Dr
Bluffton, SC 29910

Building B Elevations

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SPA Resubmittal #4	24.05.24
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SPA Submittal	23.01.23
ISSUANCE	DATE



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SPR Resubmittal #4	24.05.24
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SPR Submittal	23.01.23
ISSUANCE	DATE



Compass Self Storage
20 Cane Dr
Bluffton, SC 29910

Graphic Illustrations

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A3.2

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COMPASS SELF STORAGE

STC- 1

STC- 2

MTL - 1

MTL - 2

RF - 1

Mark	Code	Manufacturer	Specifications
	STC-1	Best Block Company	Type: Direct Applied stucco coat (white) over Smooth Face Block. Location: Refer to Dumpster elevations
2	STC-2	STO	Type: Power wall Stucco (Cement Plaster) Finish: Limestone Color: White Haze Location: Refer to elevations
3	MTL-1	James Hardie	Type: Hardie Plank Lap Siding Finish: Cement Board Color: White Location: Refer to elevations
4	MTL-2	James Hardie	Type: Hardie Board & Batten Siding 5" Rib Exposure Color: White Location: Refer to elevations
5	RF-1	Atas	Type: Standing Seam Metal Roof Color: Black Location: Refer to elevations

Compass Self Storage

315 Gibbet Road and 20 Cane Drive

COMPASS SELF STORAGE

3300 AUBURN RD, SUITE 300

AUBURN HILLS, MI 48326

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STATE OF SOUTH CAROLINA

PETER

STUHLREYER

No. 9824

REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA

DESIGNHAUS

LLC

AUBURN HILLS, MI

No. 102021

REGISTERED ARCHITECT

Compass Self Storage

315 Gibbet Road and 20 Cane Dr

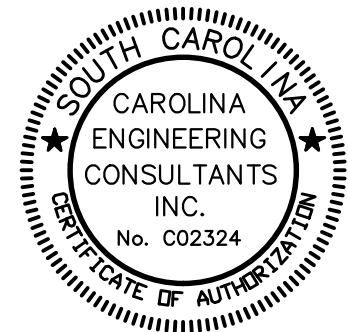
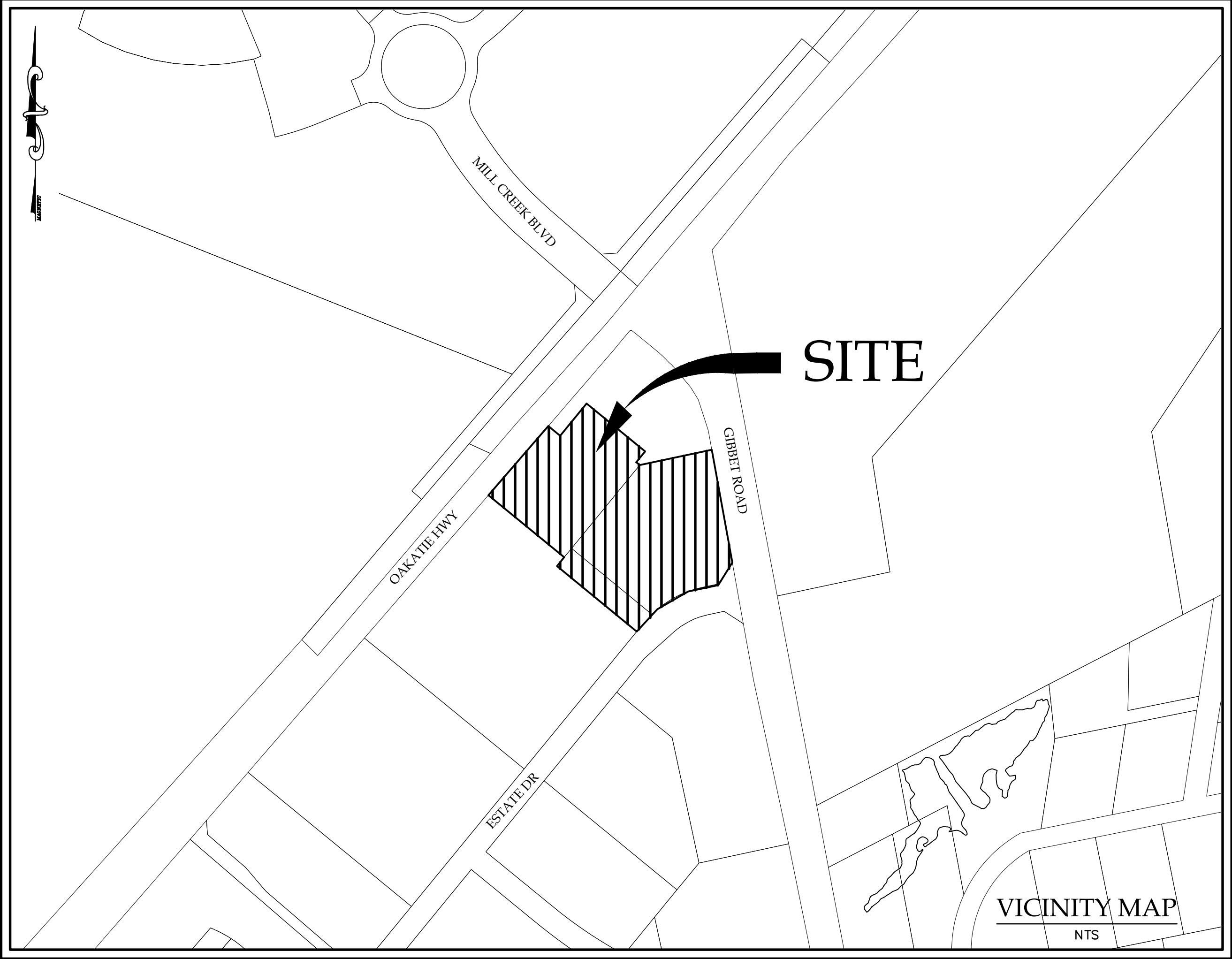
Bluffton, SC 29910

Materials

022129

A4.1

SITE DEVELOPMENT PLANS
COMPASS SELF STORAGE
TOWN OF BLUFFTON
BEAUFORT COUNTY, SC
COMMERCIAL



TAX MAP#S R610-036-000-0458 & R610-036-000-0459
315 GIBBET ROAD
BLUFFTON, SC
LATITUDE 80° 58' 20"
LONGITUDE 32° 15' 15"
HORIZONTAL DATUM: SCNAD 83
VERTICAL DATUM: NAVD 88



I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED
SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER,
I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THE DESIGN IS CONSISTENT
WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 34 OF THE CODE OF LAWS OF SC, 1976
AS AMENDED, PURSUANT TO REGULATOR 72-300 ET SEQ. (IF APPLICABLE), AND IN
ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

PREPARED BY:

CAROLINA ENGINEERING CONSULTANTS, INC.

PO BOX 294
BEAUFORT, SC 29901

WWW.CAROLINAENGINEERING.COM
800 CONGRESS ST BEAUFORT, SC 29902

PHONE
(843)322-0553



APPROXIMATE LOCATION OF SITE
SCALE: 1"=3000'

DEVELOPER: AMSDELL STORAGE VENTURES 81, LLC
ADDRESS: 20455 EMERALD PARKWAY DR, STE 220
CONTACT: CLEVELAND OHIO 44135
JONATHAN STEELE (216)-458-0670

SCHEDULE OF DRAWINGS

SHEET NO.	DESCRIPTION
1 of 10	TITLE SHEET
2 of 10	GENERAL NOTES & LEGEND SHEET
3 of 10	EXISTING CONDITIONS & DEMOLITION SHEET
4 of 10	TREE PROTECTION & REMOVAL AND SEDIMENT & EROSION CONTROL PLAN
5 of 10	SEDIMENT & EROSION CONTROL DETAILS
6 of 10	PAVING, GRADING & DRAINAGE PLAN
7 of 10	PAVING, GRADING & DRAINAGE DETAILS
8 of 10	WATER & SANITARY SEWER PLAN
9 of 10	WATER DETAILS
10 of 10	SANITARY SEWER DETAILS
1 of 1	LIMITS OF DISTURBANCE SHEET

DATE: 04/19/23 REVISED: 05/22/24 PROJECT: 2493

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 1-888-721-7877
PALMETTO UTILITY PROTECTION SERVICE

SEDIMENT & EROSION CONTROL NOTES:

IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

—WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
—WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE CALENDAR EVERY WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

PROVIDE SILT FENCE AND/ OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72–300 ET SEQ. AND SCRI00000.

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/ OR TO DIVERT SEDIMENT–LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50–FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10–FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.

LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H: 1V OR GREATER) WHERE LAND–DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
—WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;

—WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
—FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
—SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/ OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

A PRE–CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON–SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON–LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON–SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

GENERAL SCDOT NOTES:

WHERE NEW CONSTRUCTION IS NEAR THE EDGE OF AN EXISTING PAVED ROADWAY, A TRAFFIC LANE WILL BE TEMPORARILY CLOSED TO PROVIDE SAFETY TO THE PUBLIC AND TO THE WORKMEN. NO LANE CLOSURES DURING 7:00 AM TO 9:00 AM OR FROM 3:30 PM TO 6:00 PM ARE ALLOWED.

APPLICANT WILL REPAIR ALL DAMAGE DONE TO ROADSIDE AND RESEED WITH PERMANENT GRASS.

TRAFFIC CONTROLS FOR THIS INSTALLATION SHALL BE IN ACCORDANCE WITH S.C.M.U.T.C.D.

PAVEMENT MARKING LINES TO BE THERMOPLASTIC.

RAISED REFLECTIVE PAVEMENT MARKER RRPMS TO BE INSTALLED IN ACCORDANCE WITH SCDOT'S STANDARD DRAWINGS NO. 603–1 THRU 603–8 JULY, 1997.

ALL PROPOSED SIGNAGE AND PAVEMENT MARKINGS SHOULD BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MUTCD.

GENERAL:

PAVING, GRADING, & DRAINAGE NOTES:

CAROLINA ENGINEERING CONSULTANTS, INC.'S WRITTEN CONSTRUCTION SPECIFICATIONS WILL BE FOLLOWED ON THIS JOB. IF CONTRACTOR NEEDS COPY OF THESE SPECIFICATIONS, PLEASE CONTACT CAROLINA ENGINEERING.

TOPOGRAPHY, BOUNDARY, WETLAND AND BASE INFORMATION PROVIDED BY COASTAL SURVEYING.

BENCHMARKS ARE TO BE VERIFIED BY CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL MANHOLE AND INVERT ELEVATIONS BEFORE STARTING WORK.

CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES.

SILT FENCE AND TREE FENCES TO BE IN PLACE PRIOR TO COMMENCING WORK.

MAINTAIN A 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS. WHERE THIS SEPARATION CANNOT BE MAINTAINED OR THE LINES CROSS THE BOTTOM OF THE WATER MAIN, THERE SHALL BE 18" ABOVE THE TOP OF THE SEWER MAIN LAID IN SEPARATE TRENCHES.

WHERE NEW CONSTRUCTION IS NEAR THE EDGE OF AN EXISTING PAVED ROADWAY, A TRAFFIC LANE WILL BE TEMPORARILY CLOSED TO PROVIDE SAFETY TO THE PUBLIC AND TO THE WORKMEN. NO LANE CLOSURES DURING 7:00 AM TO 9:00 AM OR FROM 3:30 PM TO 6:00 PM ARE ALLOWED.

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ALL PROPOSED SIGNAGE AND PAVEMENT MARKINGS SHOULD BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MUTCD.

CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORM WATER SYSTEM.

GENERAL:

WATER, & SANITARY SEWER NOTES:

BJWSA CONSTRUCTION SPECIFICATIONS WILL BE FOLLOWED ON THIS JOB. IF CONTRACTOR NEEDS COPY OF THESE SPECIFICATIONS, PLEASE CONTACT CAROLINA ENGINEERING.

BENCHMARKS ARE TO BE VERIFIED BY CONTRACTOR.

MAINTAIN A 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS.

WHERE THIS SEPARATION CANNOT BE MAINTAINED OR THE LINES CROSS THE BOTTOM OF THE SEWER MAIN, THERE SHALL BE 18" ABOVE THE TOP OF THE SEWER MAIN LAID IN SEPARATE TRENCHES.

SEWER LATERALS SHALL BE LAID WITH A MINIMUM SLOPE OF 1.0% AS SHOWN ON PLANS.

METER(S) TO BE PURCHASED FROM, SIZED & INSTALLED BY BJWSA .

MAINTAIN A 5' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND STORM DRAINAGE LINES.

CONTRACTOR TO FIELD LOCATE AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

SYMBOL LEGEND:

EXISTING FIRE HYDRANT



PROPOSED FIRE HYDRANT



EXISTING WATER VALVE



PROPOSED WATER VALVE



REDUCER



EXISTING WATER METER



PROPOSED WATER METER



WATER VALVE MARKER



PROPOSED RPZ BACKFLOW PREVENTER



PLUG



WELL



EXISTING MANHOLE



PROPOSED MANHOLE



DUAL SWEEP CLEANOUT



TRAFFIC RATED CLEAN OUT



CLEAN OUT



POST INDICATOR VALVE



AIR RELEASE VALVE



SEWER VALVE



CATCH BASIN



CURB INLET



JUNCTION BOX



YARD INLET



OUTFALL CONTROLL STRUCTURE



DRAINAGE ARROW



UTILITY POLE



GUY WIRE



MATCHLINE TARGET



TREE LEGEND

REMAIN	REMOVE

TREE IDENTIFICATION

ABBREVIATION	DESCRIPTION
CH	CHERRY
CR	GREPE MYRTLE
DW	DOGWOOD
HOL	HOLLY
LA	LAUREL OAK
LO	LIVE OAK
MAG	MAGNOLIA
MP	MAPLE
PE	PECAN
PLM	PALM
PN	PINE
RO	RED OAK
UNK	UNKNOWN
WHO	WHITE OAK
WIL	WILLOW TREE
WO	WATER OAK

TREE PROTECTION & REMOVAL NOTES:

INSTALL ALL TREE PROTECTION FENCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
MH	MANHOLE
FM	FORCEMAIN
CI	CURB INLET
GI	GRATE INLET
YI	YARD INLET
LF	LINEAR FEET
FOPT	FIBER OPTIC
IRR	IRRIGATION
CL	CENTER LINE
EOP	EDGE OF PAVEMENT
BOC	BACK OF CURB
R/W	RIGHT OF WAY
TP	TOP OF PAVEMENT
TS	TOP OF SIDEWALK
FG	FINISH GRADE
FFE	FINISHED FLOOR ELEVATION

LINE LEGEND:

EXISTING WATER LINE	— W — W — W — W — W —
EXISTING STORM DRAIN	— SD — SD — SD — SD —
EXISTING SANITARY SEWER	— SS — SS — SS — SS —
OVERHEAD POWER LINE	— OHP — OHP — OHP — OHP —
EXISTING GAS LINE	— GAS — GAS — GAS — GAS —
EXISTING FORCE MAIN	— FM — FM — FM —
CHAINLINK FENCE	— — — — —
TREE CANOPY	
UNDER GROUND ELECTRIC	— UGE — UGE — UGE —
FIBER OPTIC	— FO — FO — FO —

COMPASS SELF STORAGE
TOWN OF BLUFFTON
BEAUFORT COUNTY, SC

CAROLINA ENGINEERING CONSULTANTS, INC.
843/322-0553
843/322-0556 (FAX)
WWW.CAROLINAENGINEERING.COM

PO BOX 294
BEAUFORT, SC 29901

PROJECT: 2493
DATE: 04/19/23
REVISED: 05/22/24
DRAWN BY: BJS
ENGINEER: JPA
DATUM: SCNAD83 NAVD 88
SCALE: NTS

GENERAL NOTES
& LEGEND

2
OF 10

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S40° 51' 31"W	30.62'
L2	S49° 21' 28"E	10.01'
L3	S34° 54' 21"W	43.74'
L4	S78° 06' 45"W	36.40'
L5	N49° 19' 47"W	3.09'
L6	S40° 49' 02"W	25.00'
L7	S39° 59' 59"W	25.01'

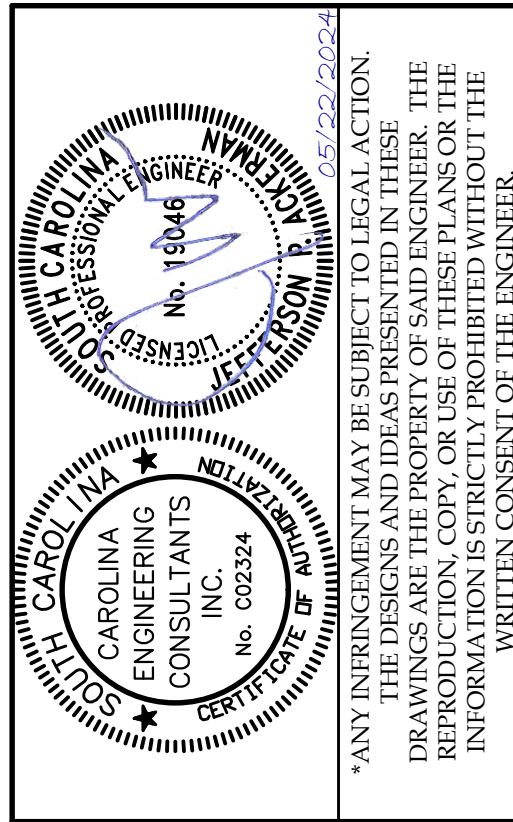
CURVE TABLE			
CURVE	RADIUS	CHORD	CHORD DISTANCE
C1	225.00	S63° 26' 37"W	124.35'

PIN# R610-036-000-0471-0000
N/F
PALMETTO POINT BUSINESS
DB 2555, PG 1006
OPEN SPACE

PIN# R610-036-000-0458-0000
N/F
MFF ENTERPRISES LLC
DB 3919, PG 3325
LOT 1
1.50 ACRES
65,488 SQ. FT.

PIN# R610-036-000-0459-0000
N/F
MFF ENTERPRISES LLC
DB 3174, PG 477
LOT 2
1.71 ACRES
74,713 SQ. FT.

PIN# R610-036-000-0458-0000
N/F
PALMETTO LAND ASSOCIATES, LLC



PLAN REVISIONS	
NO.	DESCRIPTION
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2	
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6	
7	
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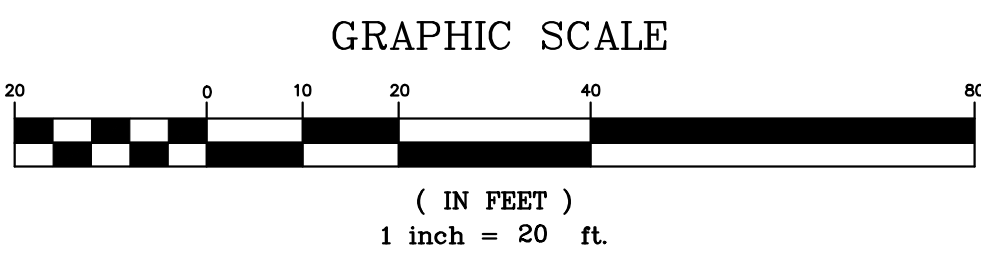
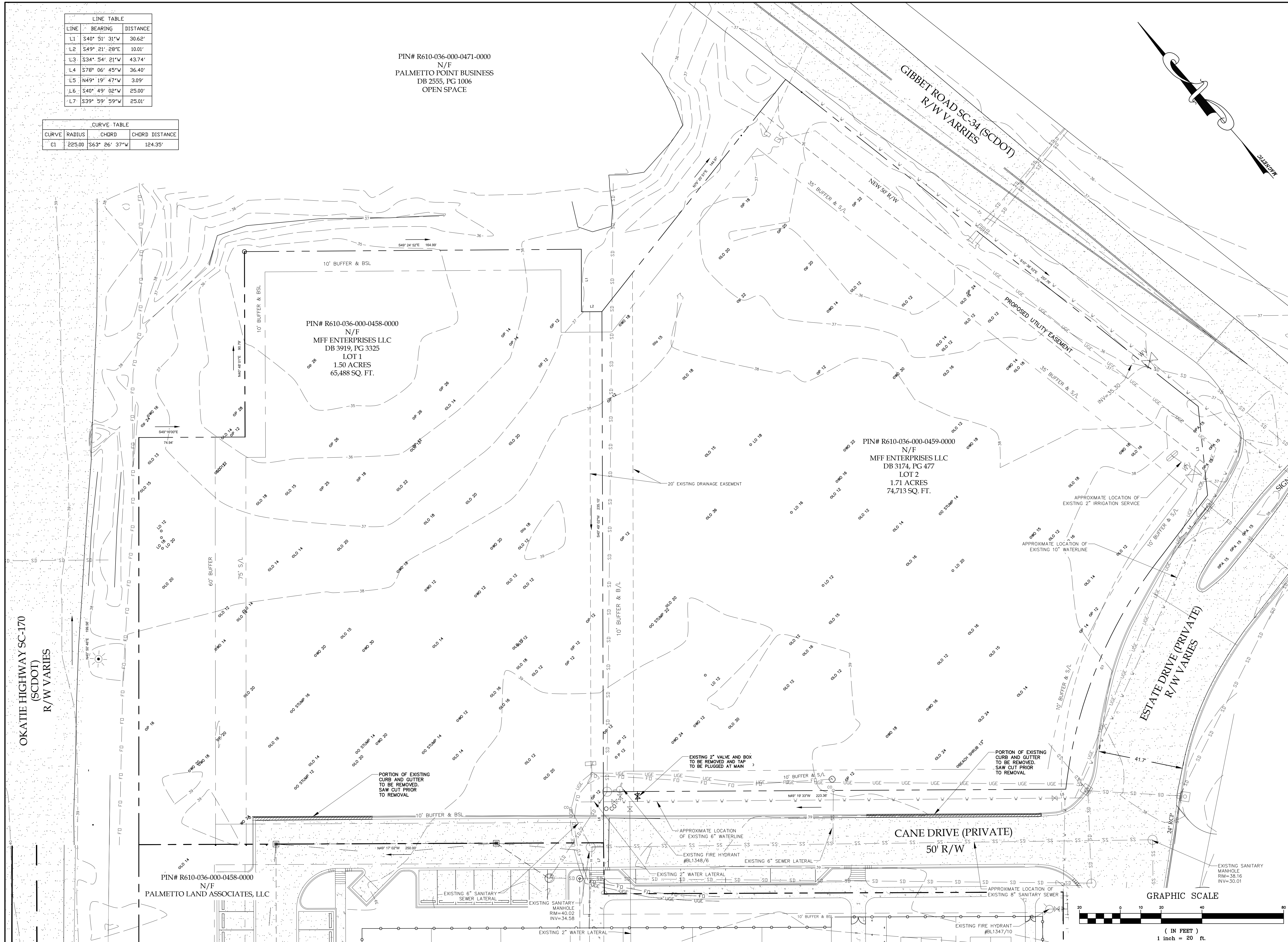
COMPASS SELF STORAGE
TOWN OF BLUFFTON
BEAUFORT COUNTY, SC

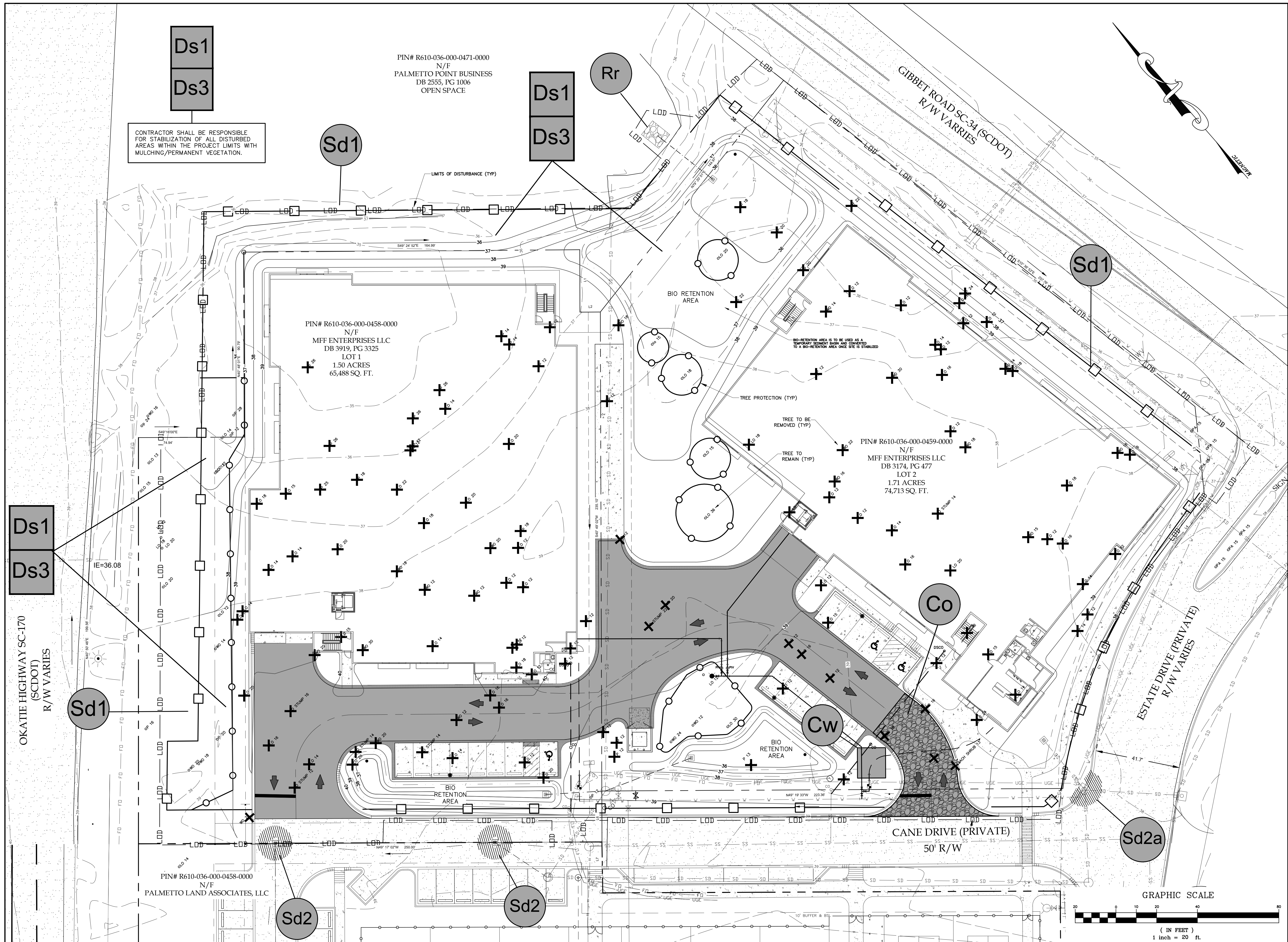
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843/322-0556 (FAX)
WWW.CAROLINAENGINEERING.COM

PO BOX 294
BEAUFORT, SC 29901

PROJECT: 2493
DATE: 04/19/23
REVISED: 05/22/24
DRAWN BY: BJS
ENGINEER: JPA
DATUM: SCNAD83 NAVD 88
SCALE: 1"=20'

EXISTING
CONDITIONS &
DEMOLITION
SHEET
3
OF 10





CAROLINA ENGINEERING CONSULTANTS, INC.
Professional Engineer
No. 18049
No. 002324
05/22/2024

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WRITTEN CONSENT OF THE ENGINEER.

PLAN REVISIONS	
NO.	DESCRIPTION
1	
2	
3	
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8	

COMPASS SELF STORAGE
TOWN OF BLUFFTON
BEAUFORT COUNTY, SC

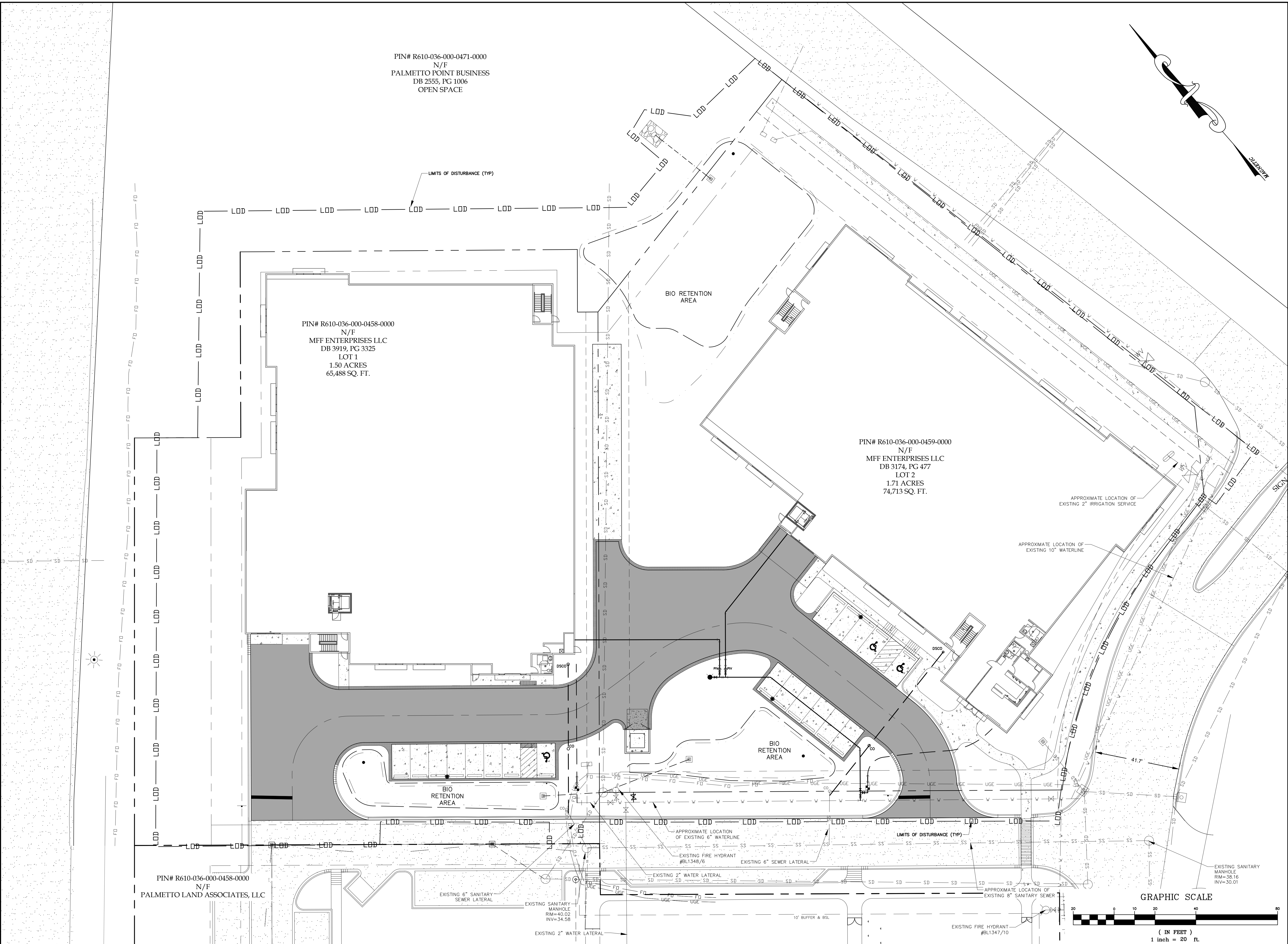
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TREE REMOVAL & PROTECTION AND SEDIMENT & EROSION CONTROL PLAN

4
OF 10

Page 39



PIN# R610-036-000-0471-0000
N/F
PALMETTO POINT BUSINESS
DB 2555, PG 1006
OPEN SPACE

PIN# R610-036-000-0458-0000
N/F
MFF ENTERPRISES LLC
DB 3919, PG 3325
LOT 1
1.50 ACRES
65,488 SQ. FT.

PIN# R610-036-000-0459-0000
N/F
MFF ENTERPRISES LLC
DB 3174, PG 477
LOT 2
1.71 ACRES
74,713 SQ. FT.

PIN# R610-036-000-0458-0000
N/F
PALMETTO LAND ASSOCIATES, LLC

EXISTING 6" SANITARY SEWER LATERAL
EXISTING SANITARY MANHOLE
RIM=40.02
INV=34.58

EXISTING 2" WATER LATERAL

EXISTING FIRE HYDRANT
#BL1347/10

APPROXIMATE LOCATION OF EXISTING 8" SANITARY SEWER

10' BUFFER & BSL

APPROXIMATE LOCATION OF EXISTING 6" WATERLINE

EXISTING FIRE HYDRANT
#BL1348/6

APPROXIMATE LOCATION OF EXISTING 10" WATERLINE

APPROXIMATE LOCATION OF EXISTING 2" IRRIGATION SERVICE

41.7'

EXISTING SANITARY MANHOLE
RIM=38.16
INV=30.01

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

0 10 20 40 60 80

1
OF 1

Page 40

PLAN REVISIONS	
NO.	DESCRIPTION
1	
2	
3	
4	
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8	

COMPASS SELF STORAGE
TOWN OF BLUFFTON
BEAUFORT COUNTY, SC

CAROLINA ENGINEERING CONSULTANTS, INC.
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BEAUFORT, SC 29901

843/322-0553
843/322-0556 (FAX)

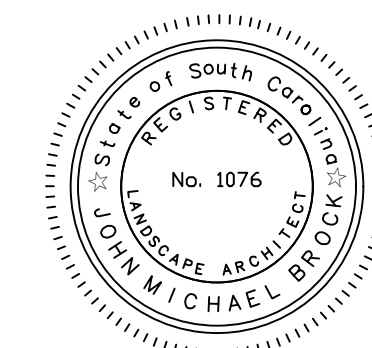
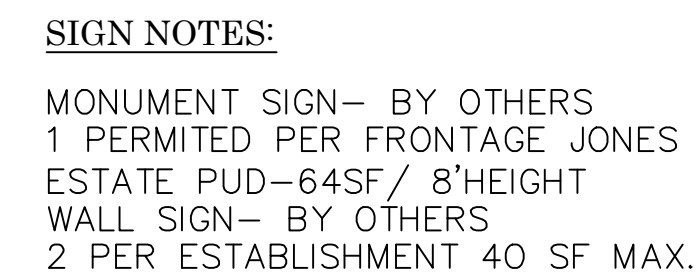
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DRAWN BY:	BJS
ENGINEER:	JPA
DATUM:	NAVD 88
SCALE:	1"=20'

LIMITS OF
DISTURBANCE PLAN

1
OF 1

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[illegible]

LANDSCAPE PLAN
FOR
COMPASS SELF STORAGE
20 Cane Dr. Bluffton, SC



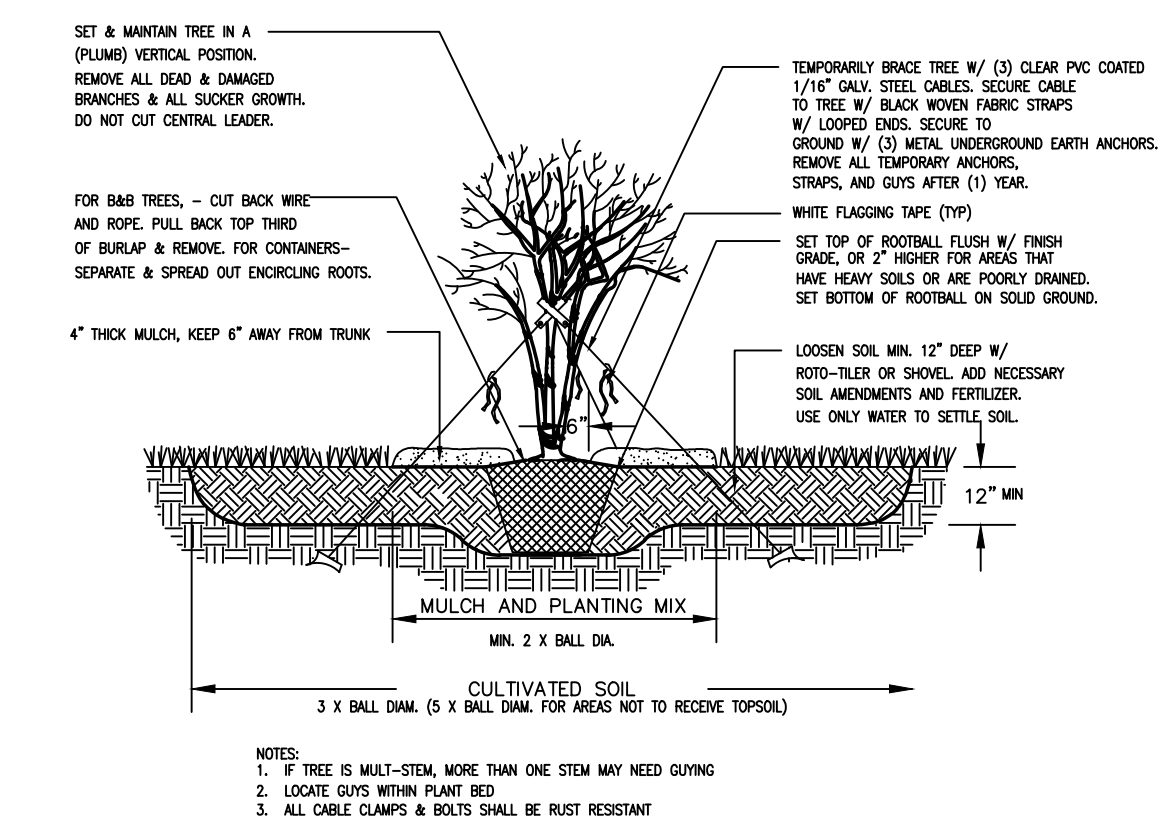
J. M. BROCK
RLA
po box 358, port royal
south carolina, 29935
ph. 843.540.6407
mbrock@mbrockdesigns.com

Drawn By:	M. Broch
Drawn Date:	05.29.24
Chk'd By:	M. Broch
Project ID:	C-24038

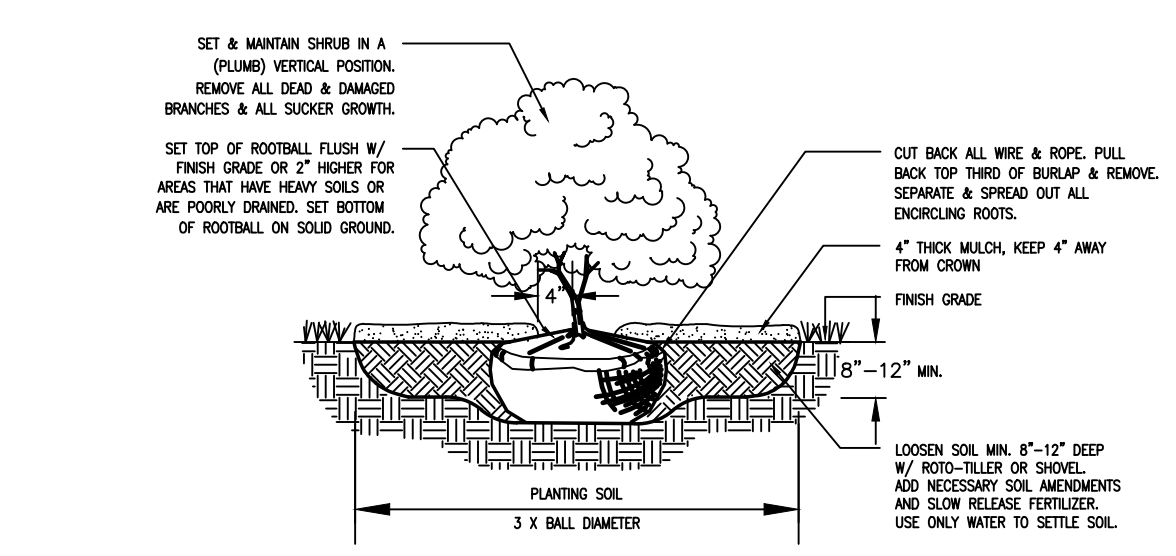
Landscape Plan
Sheet No.

LS-101

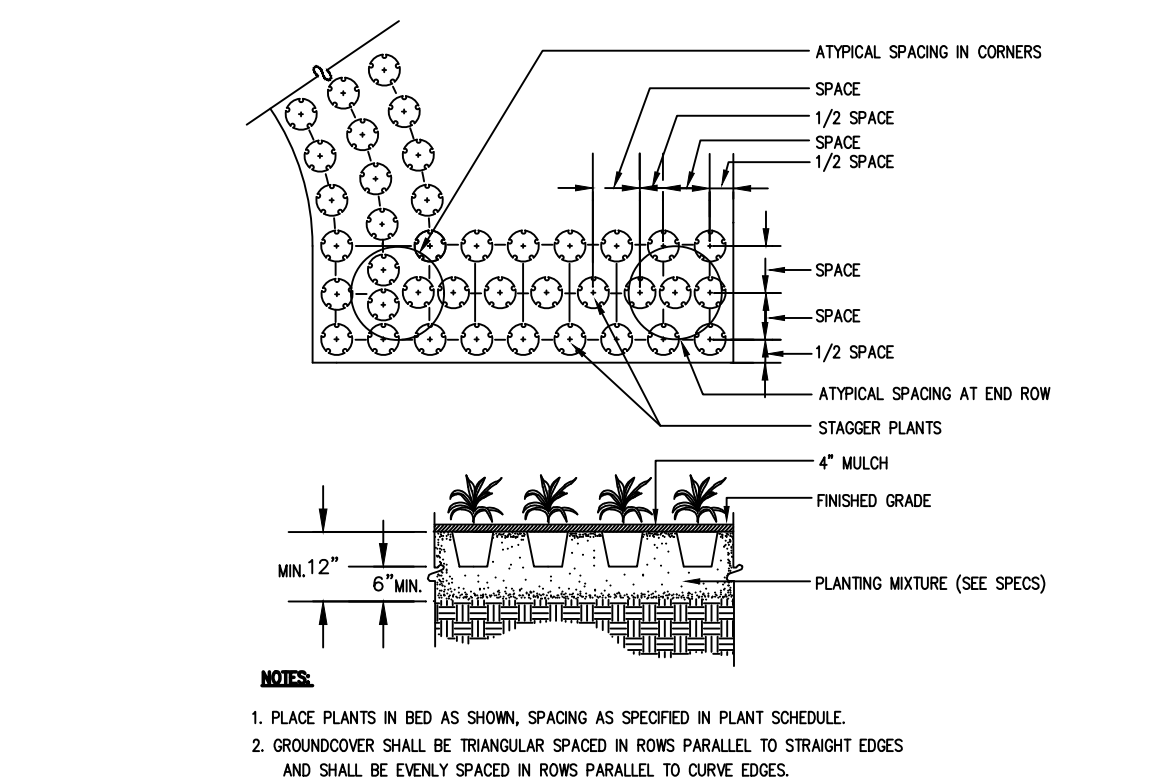
SHEET 1 OF 2



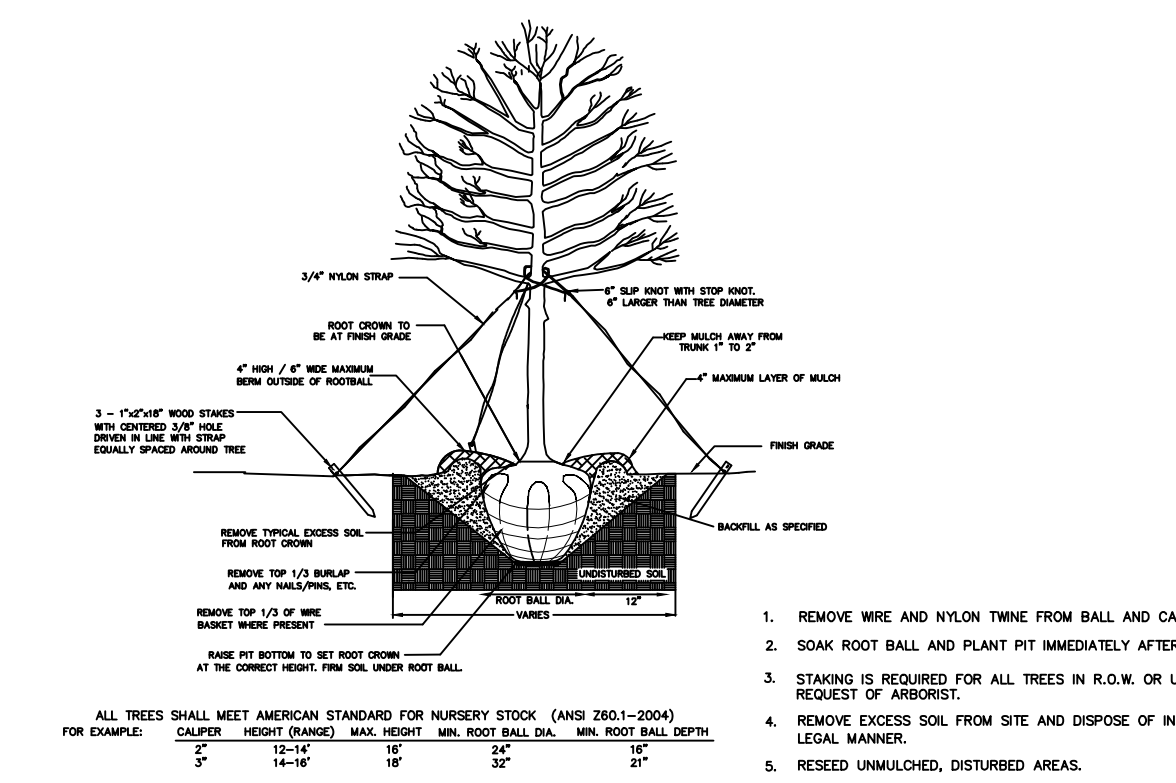
1/LS102 MULTI-TRUNK TREE PLANTING DETAIL
N.T.S.



2/LS102 SHRUB PLANTING DETAIL
N.T.S.



3/LS102 GROUNDCOVER PLANTING DETAIL
N.T.S.



4/LS102 TREE INSTALLATION DETAIL
N.T.S.



Disposition	Landscaping Required	Landscaping Provided
General Site Landscaping:	20% Min.	+43.88%
Landscaping Adjacent to Roads:	n/a	Replacement Trees @ 30' O.C.
Replacement Trees - R	- Trees Required	- Replacement Trees Provided
Greenbelt Requirements:	n/a	n/a
Screening Requirements:	Vehicle Screening From Roads	Provided
Parking Lot Requirements:	1 Tree / Island	6 Trees Provided

SIGN NOTES:

MONUMENT SIGN- BY OTHERS
1 PERMITTED PER FRONTAGE JONES
ESTATE PUD-64SF/ 8'HEIGHT
WALL SIGN- BY OTHERS
2 PER ESTABLISHMENT 40 SF MAX.

REPLACEMENT TREE SCHEDULE:

TREE COUNTS	COUNT	TREES REMOVED	REPLACEMENT TREES REQUIRED
EXISTING	166		
TO BE REMOVED	113	SIGNIFICANT TREES >24"= 5 TREES 18" < 24" =20 TREES 12" < 18" =44 TREES 8" < 12" =40	25 TREES 60 TREES 88 TREES 40 TREES
TO REMAIN	53		TOTAL- 213

REPLACEMENT TREES PROVIDED:

213 REPLACEMENT TREES REQUIRED
80 REPLACEMENT TREES PROVIDED FOR 160 REPLACEMENT TREE CREDITS
53 TREES REPLACEMENT TREES TO BE PAID TO THE TREE FUND. (213 REQUIRED- 160 PROVIDED)
ANTICIPATED COST TO BE DETERMINED.

Trees	QTY	Common/ Botanical Name	Cont.	Height/Spread
	12	Cabbage Palm/ Sabal palmetto (Slick Face)	-	Bare Root 14'
	13	Live Oak/ Quercus virginiana	4" Cal.	B&B 12'
	15	Pin Oak/ Quercus palustris	4" Cal.	B&B 12'
	14	Scarlet Oak/ Quercus coccinea	4" Cal.	B&B 12'
	11	White Oak/ Quercus alba	4" Cal.	B&B 12'
	16	Nuttall Oak/ Quercus texana	4" Cal.	B&B 12'
	12	Willow Oak/ Quercus phellos	4" Cal.	B&B 12'
Shrubs	QTY	Common/ Botanical Name	Cont.	Height/Spread
	9	Sweetbay Magnolia/ Magnolia virginiana	2.5" Cal.	B&B 8-10'
	13	Common Gardenia/ Gardenia aufusta 'August Beauty'	7 gal.	48" O.C.
	43	Gulf Muhly Grass Pink/ Muhlenbergia capillaris	1 gal.	2/2'
	21	Rose Creek Abelia/ Abelia x 'Rose Creek'	3 gal.	42"/36"
	28	Sandankwa Viburnum/ Viburnum suspensum	7 gal.	96" O.C.'
	32	Small-Leaf Arrowwood/ Viburnum ovovatum 'Miss Shilers Delight'	3 gal.	48" O.C.
	18	Sweet Viburnum/ Viburnum odortissimum	7 gal.	72" O.C.
	10	Wax Myrtle/ Myrica cerifera	15 gal.	72" O.C.
	11	Yew Pine/ Podocarpus macrophylla	7 gal.	48" O.C.
Cycads/ Palms	QTY	Common/ Botanical Name	Cont.	Height/Spread
	44	Saw Palmetto/ Serenoa repens	3 gal.	3-4'
Ground Covers/ Grasses	QTY	Common/ Botanical Name	Cont.	Height/Spread
	11	Society Garlic/ Tulbaghia violacea	1 gal.	15"-18"
	18	African Iris/ Dietes 'Apostle Blue'	1 gal.	15"-18"
	16,000 SF	Korean Grass/ Zoysia japonica 'Zeon'		SOD

LANDSCAPE NOTES

PLANTING:
1. MATERIAL LIST WAS PREPARED FOR ESTIMATING PURPOSES. CONTRACTOR SHALL MAKE OWN QUANTITY TAKE-OFF USING DRAWINGS AND SPECIFICATION, REPORTING PROMPTLY ANY DISCREPANCIES WHICH MAY EFFECT BIDDING.
2. ROOT TYPES MAY BE FREELY SUBSTITUTED IN CASE OF BALLED AND BURLAPPED OR CONTAINER GROWN. ALL OTHER SPECIFICATIONS TO REMAIN UNCHAINED.
3. CONTRACTOR TO VERIFY THAT ALL PLANT MATERIALS ARE AVAILABLE AS SPECIFIED WHEN PROPOSAL IS SUBMITTED.
4. SEE TREE, SHRUB, AND GROUNDCOVER PLANTING DETAILS AND SPECIAL PROVISIONS FOR PLANTING SPECIFICATIONS.
5. SOIL SHALL BE AMENDED BY CONTRACTOR AS INDICATED BY SOIL TEST TO ACHIEVE PROPER SOIL CONDITION.
6. CONTRACTOR SHALL STAKE OUT ALL SHRUB BED LINES, TREE LOCATIONS, AND SHRUB GROUPINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE BEFORE BEGINNING PLANTING OPERATIONS.
7. ALL PLANT BEDS TO RECEIVE 3" DEEP BROWN COLORED HARDWOOD MULCH.
8. CONTRACTOR TO MAINTAIN THE PLANTINGS AND CONTROL WEEDS IN MULCH AREAS THROUGH THE DURATION OF CONSTRUCTION UNTIL FINAL ACCEPTANCE.
9. ALL PLANT BEDS AND AREAS TO RECEIVE 100% IRRIGATION COVERAGE.
10. IN THE PLANT SCHEDULE, PLANTS NOTED AS 'SPECIMEN' SHALL BE SELECTED BY THE OWNERS REPRESENTATIVE AT THE NURSERY OR PHOTOS OF THE PLANTING STOCK SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE FOR APPROVAL.
11. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO PLANTING AREAS PRIOR TO LANDSCAPE INSTALLATION AND ACCORDING TO MANUFACTURERS INSTRUCTIONS.
12. PLANT BE SHALL BE TESTED FOR PH AND AMENDED PRIOR TO INSTALLATION.
13. CONTRACTOR TO VERIFY UTILITY LOCATIONS BY REQUESTING 'NO CUTS' 72 HOURS BEFORE INSTALLATION.

IRRIGATION:
THE IRRIGATION SYSTEM WILL CONFORM TO THE FOLLOWING STANDARDS:
1. PROVIDED 100% COVERAGE OF PLANT BEDS, GRASS APES AND BUFFERS. IRRIGATION SYSTEM TO MEET ALL LOCAL AND NATIONAL PLUMBING AND ELECTRICAL CODES.
2. PROVIDE ELECTRIC AUTOMATIC TIMER CONTROL. COORDINATE LOCATION OF CONTROLLER WITH OWNER.
3. PROVIDE BEAUFORT COUNTY APPROVED RPZ PER BWSA SPECIFICATIONS AND 1 1/2' METER SERVICE FOR IRRIGATION SYSTEM.
4. INCORPORATE ZONES THAT SEPARATE GRASS AREAS FROM PLANT BEDS.
5. AVOID SPRAYING ROADS, PARKING AND WALKS.
6. UTILIZE SWING-JOINTS AND/OR FLEX-RISERS ON ALL HEADS NEXT TO ROADS, PARKING AND WALKS.
7. CONTRACTOR WILL PROVIDE 3 SETS OF AS-BUILT IRRIGATION DRAWINGS AFTER CONSTRUCTION IS COMPLETE AND APPROVED BY THE OWNER.
8. CONTRACTOR TO COORDINATE WITH GC AND OWNER, PRIOR TO HARDSCAPE MATERIAL INSTALLATION, INSTALLING CONDUIT FOR IRRIGATION.

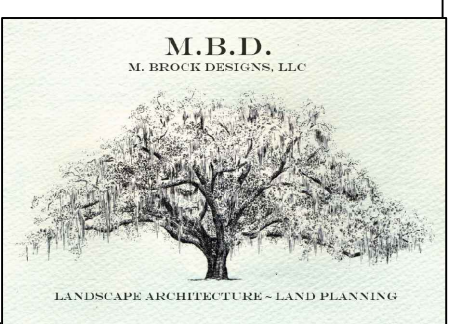
DRAINAGE:
SEE GRADE AND DRAINAGE PLAN FOR PROPOSED SITE DRAINAGE.

GUARANTEE:
THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND PLANT MATERIAL TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE PROJECT. CONTRACTOR SHALL REPLACE ANY PLANT MATERIAL FOUND TO BE DEFECTIVE WITHIN THE PERIOD OF GUARANTEE AT NO COST TO THE OWNER, EXCEPT REPAIRS OR REPLACEMENT NECESSITATED BY DAMAGE BY OTHERS OR DIEBACK DUE TO INSUFFICIENT IRRIGATION/WATERING SCHEDULE.



No.	Issue / Revision Description	Date
1		

LANDSCAPE PLAN
FOR
COMPASS SELF STORAGE
20 Cane Dr. Bluffton, SC

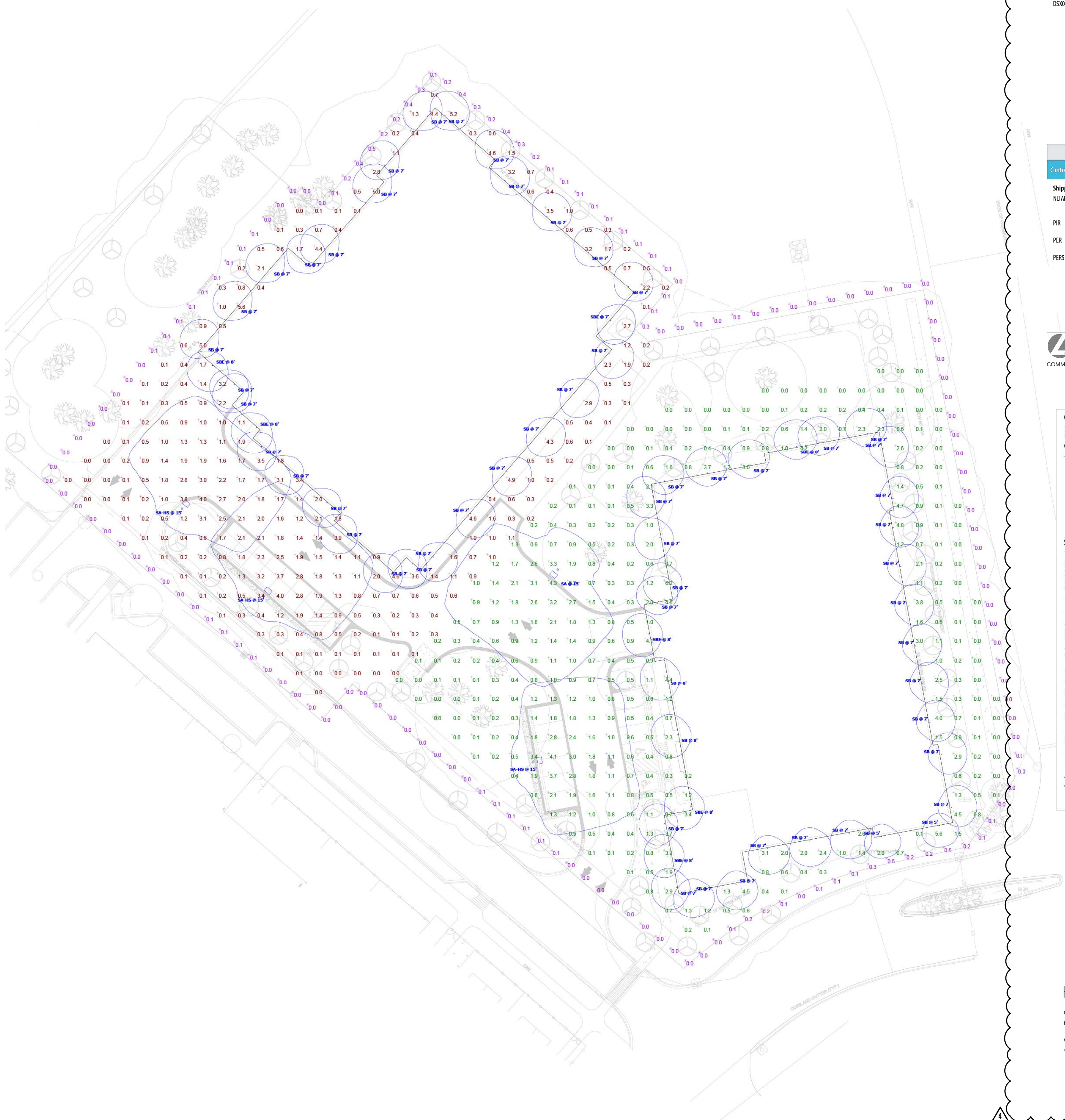


J. M. BROCK
RLA
po box 358, port royal
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Drawn By: M. Brock
Drawn Date: 05.29.24
Chk'd By: M. Brock
Project ID: C-24038

Landscape Details
Sheet No.
LS-102
SHEET 2 OF 2

Schedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	SA	1	LITHONIA LIGHTING	DSXO LED P4 30K 80CRI TFFM MVOLT SPA (FINISH) / SSS 12.5" W/2.5" BASE	D-Series Size 0 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Forward Throw	LED - 3000K	DSXO_LED_P4_30K_80CRI_TFFM_ies	9908	0.91	93.04
		3	LITHONIA LIGHTING	DSXO LED P4 30K 80CRI TFFM MVOLT SPA HS (FINISH) / SSS 12.5" W/2.5" BASE	D-Series Size 0 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Forward Throw Houseide Shield	LED - 3000K	DSXO_LED_P4_30K_80CRI_TFFM_HS_ies	8309	0.91	93.04
	SB	58	LITHONIA LIGHTING	WPXO LED ALO-1 SSW2 30K MVOLT PE DOBXO	WPXO LED, 850 Lumens setting, 3000K Setting, 120-277V	LED - 3000K	WPXO_LED_ALO-1_30K_MVOLT_ies	814	0.91	6.2384
		7	LITHONIA LIGHTING	WPXO LED ALO-1 SSW2 30K MVOLT PE DOBXO	WPXO LED, 850 Lumens setting, 3000K Setting, 120-277V, EN W/INVERTER	LED - 3000K	WPXO_LED_ALO-1_30K_MVOLT_ies	814	0.91	6.2384



CANYON

EW38807

WALL

PROJECT

SPECIFICATION DETAILS

Fixture Dimensions	W6-3/4" x H6-3/4" x D2-3/8"
Light Source	LED with DC Driver
Wattage	12W
Total Lumens	1260lm
Delivered Lumens	BK-515lm
Voltage	120-277V
Color Temperature	3000K
CRI (Ra)	80CRI
Optional Color Temps	2700K - 5000K Available, Minimum Order Quantities Apply
LED Rated Life	50,000 hours
Dimming	Non-Dimming
Diffuser Details	Clear PC
ADA Compliant	Yes
Location	Wet, IP65
Illumination Direction	4 Direction
Mounting Style	All Orientation; Wall;
Finish Option(s)	Black

* For custom options, consult factory for details.

* For warranty information, please visit www.kuczoighting.com/warranty

DESCRIPTION

Architectural exterior wall sconce, die-cast aluminum body with four adjustable slits to change beam angle.

0° to 90° Tool-less
Beam Re-shaping

Aluminum Finish
BK - Black

[illegible][illegible]

CANYON
EW38807

WALL

PROJECT

Section VII. Item #1.



DESCRIPTION

Architectural exterior wall sconce, die-cast square aluminum body with four adjustable slits to change beam angle.

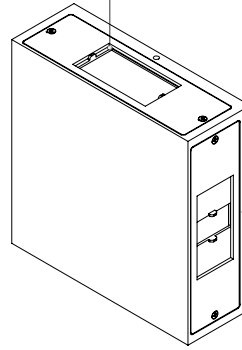
SPECIFICATION DETAILS

Fixture Dimensions	W6-3/4" x H6-3/4" x E2-3/8"
Light Source	LED with DC Driver
Wattage	12W
Total Lumens	1260lm
Delivered Lumens	BK-515lm
Voltage	120-277V
Color Temperature	3000K
CRI (Ra)	80CRI
Optional Color Temps	2700K - 5000K Available, Minimum Order Quantities Apply
LED Rated Life	50,000 hours
Dimming	Non-Dimming
Diffuser Details	Clear PC
ADA Compliant	Yes
Location	Wet, IP65
Illumination Direction	4 Direction
Mounting Style	All Orientation; Wall;
Finish Option(s)	Black

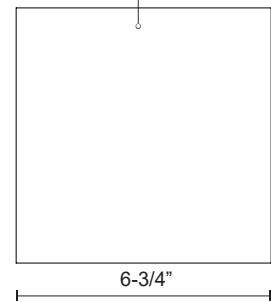
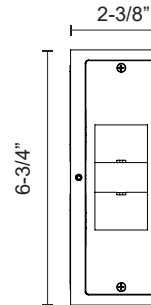
* For custom options, consult factory for details.

* For warranty information, please visit www.kuzcolighting.com/warranty

0° to 90° Tool-less
Beam Re-shaping



Aluminum Finish
BK - Black



KUZCO

CANADA: 19054 28TH AVENUE - SURREY, BC V3Z 6M3

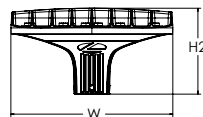
USA: 3035 E. LONE MOUNTAIN ROAD - LAS VEGAS, NV 89081

WWW.KUZCOLIGHTING.COM

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COMMENT





COMMERCIAL OUTDOOR

Ordering Information

Section VII. Item #1.

Accessories

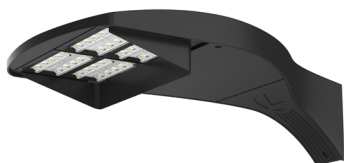
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²³
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²³
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²³
DSHORT SBK	Shorting cap ²³
DSX0HS P#	House-side shield (enter package number P1-7, P10-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXSPAS (FINISH)	Square pole adapter #5 drilling (specify finish)
DSX0EGSR (FINISH)	External glare shield (specify finish)
DSX0SDB (FINISH)	Bird spike deterrent bracket (specify finish)

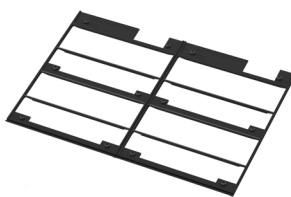
NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in packages P1, P2 or P10. XVOLT not available with fusing (SF or DF).
- SPAS and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type 5 distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1, P2 and P10 using XVOLT. NLTAIR2 PIRHN not available with P1 using MVOLT.
- PIR not available with NLTAIR2, PER, PER5, PER7, FAO BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT. PIR not available with P1 using MVOLT.
- PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, or DMG.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO and DMG. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50 and FAO.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- Option HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P6, P7, P12 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



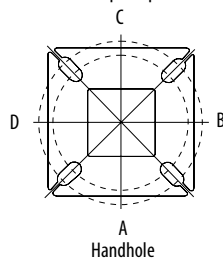
External Glare Shield (EGSR)



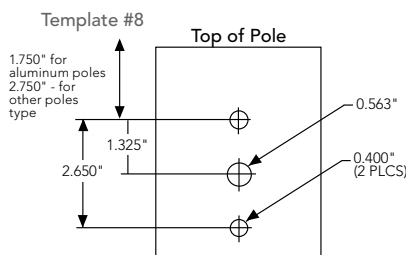
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION (from top of pole)



Handhole



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPAS	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	---	1.16
DSX0 with SPAS, SPA8N	0.51	1.02	1.06	1.26	---	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93

ATTACHMENT 2

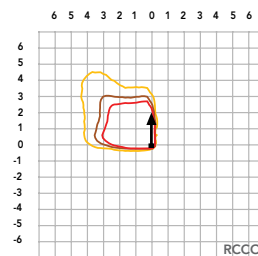
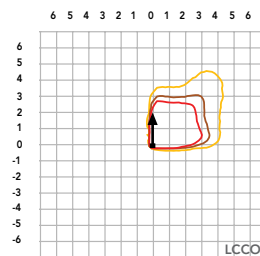
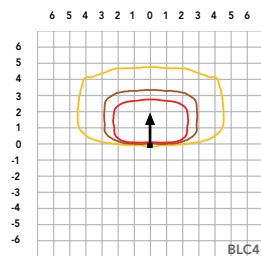
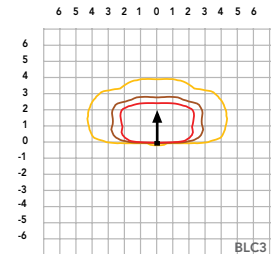
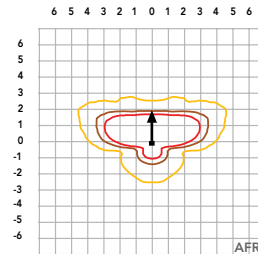
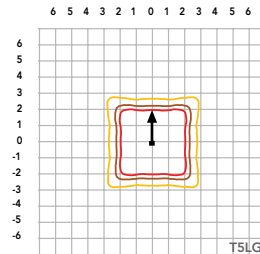
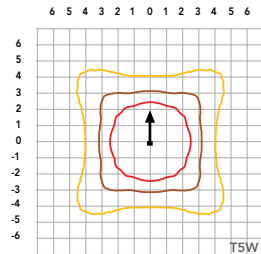
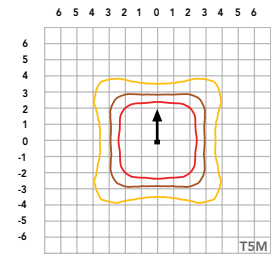
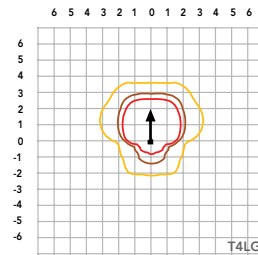
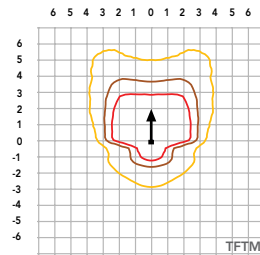
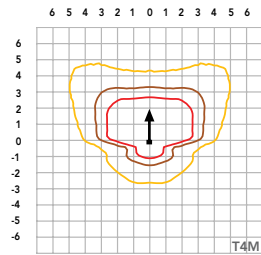
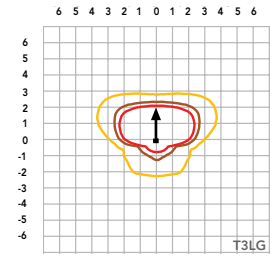
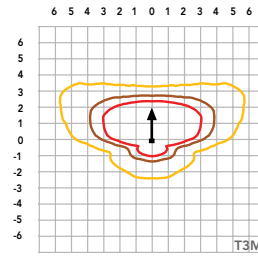
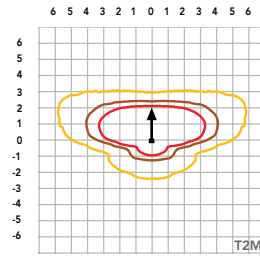
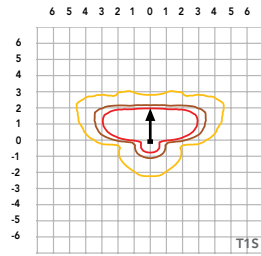
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](https://www.lithonia.com).

Section VII. Item #1.

Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').

LEGEND



Performance Data

Section VII. Item #1.

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.94
50,000	0.89
100,000	0.80

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor override when wirelessly connected to the nLight Eclipse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	33W	20	530	T1S	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
				T2M	4,545	1	0	2	137	4,736	1	0	2	143	4,829	1	0	2	145
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147
				T3LG	4,107	1	0	1	124	4,280	1	0	1	129	4,363	1	0	1	131
				T4M	4,666	1	0	2	141	4,863	1	0	2	146	4,957	1	0	2	149
				T4LG	4,244	1	0	1	128	4,423	1	0	1	133	4,509	1	0	1	136
				TFTM	4,698	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150
				T5M	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154
				T5W	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156
				T5LG	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				AFR	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
P2	45W	20	700	T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
				T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
				T3M	5,930	1	0	3	131	6,180	1	0	3	137	6,301	1	0	3	140
				T3LG	5,297	1	0	1	117	5,521	1	0	1	122	5,628	1	0	1	125
				T4M	6,018	1	0	3	133	6,272	1	0	3	139	6,395	1	0	3	142
				T4LG	5,474	1	0	1	121	5,705	1	0	1	126	5,816	1	0	1	129
				TFTM	6,060	1	0	3	134	6,316	1	0	3	140	6,439	1	0	3	143
				T5M	6,192	3	0	1	137	6,453	3	0	2	143	6,579	3	0	2	146
				T5W	6,293	3	0	2	139	6,558	3	0	2	145	6,686	3	0	2	148
				T5LG	6,210	2	0	1	138	6,472	3	0	1	143	6,598	3	0	1	146
				BLC3	4,313	0	0	2	96	4,495	0	0	2	100	4,583	0	0	2	102
				BLC4	4,455	0	0	2	99	4,643	0	0	2	103	4,733	0	0	2	105
				RCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				LCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				AFR	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
P3	69W	20	1050	T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
				T2M	8,343	2	0	3	121	8,694	2	0	3	126	8,864	2	0	3	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132
				T4LG	7,790	1	0	2	113	8,119	1	0	2	118	8,277	1	0	2	120
				TFTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133
				T5M	8,812	3	0	2	128	9,184	4	0	2	133	9,363	4	0	2	136
				T5W	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138
				T5LG	8,838	3	0	1	128	9,211	3	0	1	134	9,390	3	0	1	136
				BLC3	6,139	0	0	2	89	6,398	0	0	2	93	6,522	0	0	2	95
				BLC4	6,340	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				AFR	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
P4	93W	20	1400	T1S	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130
				T2M	10,557	2	0	3	113	11,003	2	0	3	118	11,217	2	0	3	121
				T3M	10,680	2	0	3	115	11,130	2	0	3	120	11,347	2	0	3	122
				T3LG	9,540	1	0	2	103	9,942	1	0	2	107	10,136	1	0	2	109
				T4M	10,839	2	0	3	117	11,296	2	0	3	121	11,516	2	0	4	124
				T4LG	9,858	1	0	2	106	10,274	1	0	2	110	10,474	1	0	2	113
				TFTM	10,914	2	0	3	117	11,374	2	0	3	122	11,596	2	0	3	125
				T5M	11,152	4	0	2	120	11,622	4	0	2	125	11,849	4	0	2	127
				T5W	11,332	4	0	3	122	11,811	4	0	3	127	12,041	4	0	3	129
				T5LG	11,184	3	0	1	120	11,656	3	0	2	125	11,883	3	0	2	128
				BLC3	7,768	0	0	2	83	8,096	0	0	2	87	8,254	0	0	2	89
				BLC4	8,023	0	0	3	86	8,362	0	0	3	90	8,524	0	0	3	92
				RCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				LCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				AFR	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130

Performance Data

Section VII. Item #1.

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	90W	40	700	T1S	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				T2M	11,468	2	0	3	127	11,952	2	0	3	133	12,185	2	0	3	135
				T3M	11,601	2	0	3	129	12,091	2	0	3	134	12,326	2	0	4	137
				T3LG	10,363	2	0	2	115	10,800	2	0	2	120	11,011	2	0	2	122
				T4M	11,774	2	0	4	131	12,271	2	0	4	136	12,510	2	0	4	139
				T4LG	10,709	1	0	2	119	11,160	2	0	2	124	11,378	2	0	2	126
				TFTM	11,856	2	0	3	132	12,356	2	0	4	137	12,596	2	0	4	140
				T5M	12,114	4	0	2	134	12,625	4	0	2	140	12,871	4	0	2	143
				T5W	12,310	4	0	3	137	12,830	4	0	3	142	13,080	4	0	3	145
				T5LG	12,149	3	0	2	135	12,662	3	0	2	141	12,908	3	0	2	143
				BLC3	8,438	0	0	2	94	8,794	0	0	2	98	8,966	0	0	2	99
				BLC4	8,715	0	0	3	97	9,083	0	0	3	101	9,260	0	0	3	103
				RCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				LCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				AFR	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
P6	137W	40	1050	T1S	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
				T2M	16,253	3	0	4	119	16,939	3	0	4	124	17,269	3	0	4	126
				T3M	16,442	2	0	4	120	17,135	3	0	4	125	17,469	3	0	4	128
				T3LG	14,687	2	0	2	107	15,306	2	0	2	112	15,605	2	0	2	114
				T4M	16,687	2	0	4	122	17,391	3	0	5	127	17,730	3	0	5	129
				T4LG	15,177	2	0	2	111	15,817	2	0	2	115	16,125	2	0	2	118
				TFTM	16,802	2	0	4	123	17,511	2	0	4	128	17,852	2	0	5	130
				T5M	17,168	4	0	2	125	17,893	5	0	3	131	18,241	5	0	3	133
				T5W	17,447	5	0	3	127	18,183	5	0	3	133	18,537	5	0	3	135
				T5LG	17,218	4	0	2	126	17,944	4	0	2	131	18,294	4	0	2	134
				BLC3	11,959	0	0	3	87	12,464	0	0	3	91	12,707	0	0	3	93
				BLC4	12,352	0	0	4	90	12,873	0	0	4	94	13,124	0	0	4	96
				RCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				LCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				AFR	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
P7	171W	40	1300	T1S	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129
				T2M	19,273	3	0	4	113	20,086	3	0	4	118	20,478	3	0	4	120
				T3M	19,497	3	0	5	114	20,319	3	0	5	119	20,715	3	0	5	121
				T3LG	17,416	2	0	2	102	18,151	2	0	2	106	18,504	2	0	2	108
				T4M	19,787	3	0	5	116	20,622	3	0	5	121	21,024	3	0	5	123
				T4LG	17,997	2	0	2	105	18,756	2	0	2	110	19,121	2	0	2	112
				TFTM	19,924	3	0	5	117	20,765	3	0	5	122	21,170	3	0	5	124
				T5M	20,359	5	0	3	119	21,217	5	0	3	124	21,631	5	0	3	127
				T5W	20,689	5	0	3	121	21,561	5	0	3	126	21,982	5	0	3	129
				T5LG	20,418	4	0	2	120	21,279	4	0	2	125	21,694	4	0	2	127
				BLC3	14,182	0	0	3	83	14,780	0	0	3	87	15,068	0	0	3	88
				BLC4	14,647	0	0	4	86	15,265	0	0	4	89	15,562	0	0	4	91
				RCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				LCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				AFR	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129

Performance Data

Section VII. Item #1.

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

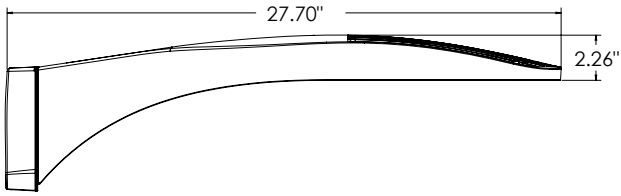
Rotated Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143
				T3M	6,933	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145
				T3LG	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147
				T4LG	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134
				TFTM	7,086	3	0	3	139	7,385	3	0	3	145	7,529	3	0	3	148
				T5M	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151
				T5W	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154
				T5LG	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152
				BLC3	5,043	3	0	3	99	5,256	3	0	3	103	5,358	3	0	3	105
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109
				RCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				LCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154
P11	68W	30	700	T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
				T2M	8,669	3	0	3	127	9,034	3	0	3	133	9,211	3	0	3	135
				T3M	8,768	3	0	3	129	9,138	3	0	3	134	9,316	3	0	3	137
				T3LG	7,833	3	0	3	115	8,164	3	0	3	120	8,323	3	0	3	122
				T4M	8,899	3	0	3	131	9,274	3	0	3	136	9,455	3	0	3	139
				T4LG	8,093	3	0	3	119	8,435	3	0	3	124	8,599	3	0	3	126
				TFTM	8,962	3	0	3	132	9,340	3	0	3	137	9,522	3	0	3	140
				T5M	9,156	4	0	2	135	9,542	4	0	2	140	9,728	4	0	2	143
				T5W	9,304	4	0	2	137	9,696	4	0	2	143	9,885	4	0	2	145
				T5LG	9,182	3	0	1	135	9,569	3	0	1	141	9,756	3	0	1	143
				BLC3	6,378	3	0	3	94	6,647	3	0	3	98	6,777	3	0	3	100
				BLC4	6,587	3	0	3	97	6,865	3	0	3	101	6,999	3	0	3	103
				RCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				LCCO	6,436	0	0	2	95	6,707	0	0	2	99	6,838	0	0	2	101
				AFR	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
P12	103W	30	1050	T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
				T2M	12,271	4	0	4	119	12,789	4	0	4	124	13,038	4	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128
				T3LG	11,089	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	129
				T4LG	11,457	3	0	3	111	11,940	3	0	3	116	12,173	3	0	3	118
				TFTM	12,686	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130
				T5M	12,960	4	0	2	125	13,507	4	0	2	131	13,770	4	0	2	133
				T5W	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135
				T5LG	12,998	3	0	2	126	13,546	3	0	2	131	13,810	3	0	2	134
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,593	3	0	3	93
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96
				RCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94
				LCCO	9,110	1	0	2	88	9,494	1	0	2	92	9,680	1	0	2	94
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
P13	129W	30	1300	T1S	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130
				T2M	14,547	4	0	4	113	15,161	4	0	4	118	15,457	4	0	4	120
				T3M	14,714	4	0	4	114	15,335	4	0	4	119	15,634	4	0	4	121
				T3LG	13,145	3	0	3	102	13,700	3	0	3	106	13,967	3	0	3	108
				T4M	14,933	4	0	4	116	15,563	4	0	4	121	15,867	4	0	4	123
				T4LG	13,582	3	0	3	105	14,155	3	0	3	110	14,431	3	0	3	112
				TFTM	15,039	4	0	4	117	15,673	4	0	4	122	15,979	4	0	4	124
				T5M	15,364	4	0	2	119	16,013	4	0	2	124	16,325	4	0	2	127
				T5W	15,613	5	0	3	121	16,272	5	0	3	126	16,589	5	0	3	129
				T5LG	15,409	3	0	2	120	16,059	3	0	2	125	16,372	4	0	2	127
				BLC3	10,703	4	0	4	83	11,155	4	0	4	87	11,372	4	0	4	88
				BLC4	11,054	4	0	4	86	11,520	4	0	4	89	11,745	4	0	4	91
				RCCO	10,800	1	0	2	84	11,256	1	0	2	87	11,475	1	0	3	89
				LCCO	10,800	1	0	2	84	11,255	1	0	2	87	11,475	1	0	3	89
				AFR	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130

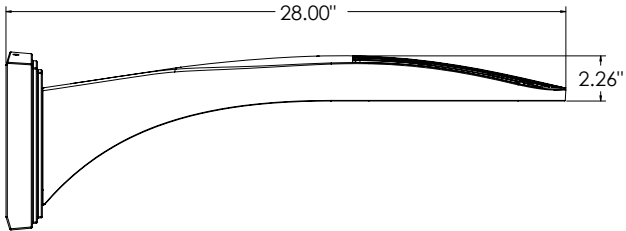
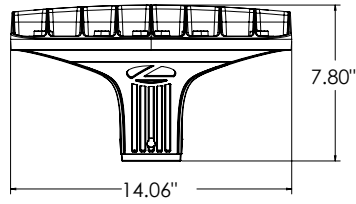
ATTACHMENT 2

Dimensions

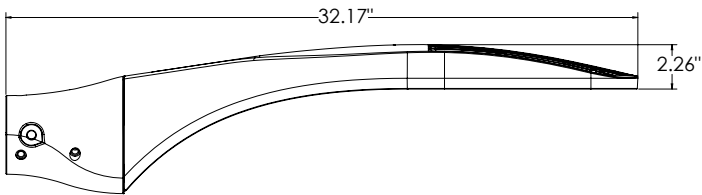
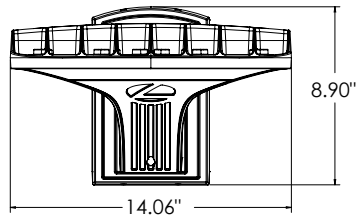
Section VII. Item #1.



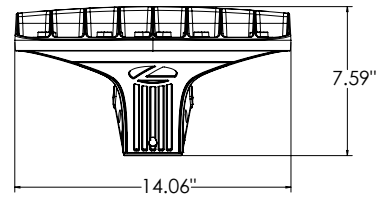
DSX0 with RPA, RPA5, SPA5, SPA8N mount
Weight: 25 lbs



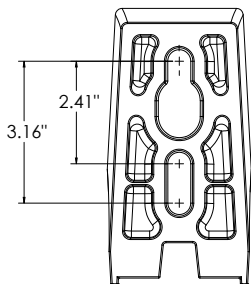
DSX0 with WBA mount
Weight: 27 lb



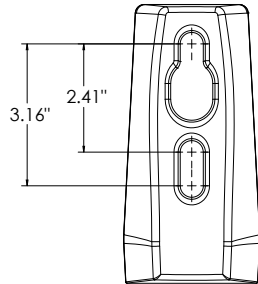
DSX0 with MA mount
Weight: 28 lbs



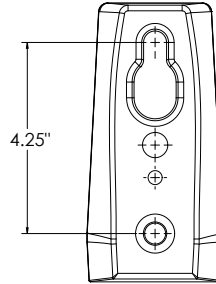
SPA (STANDARD ARM)



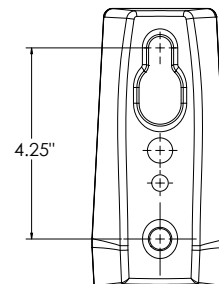
RPA



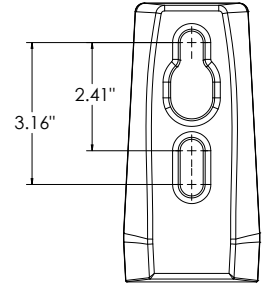
SPA5



RPA5

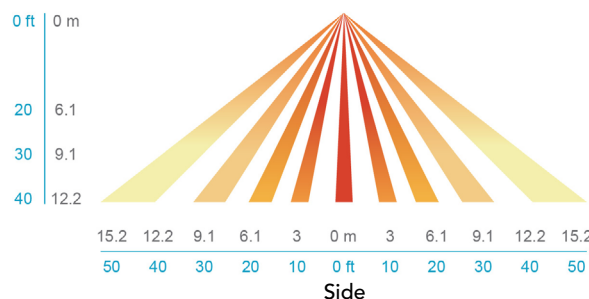
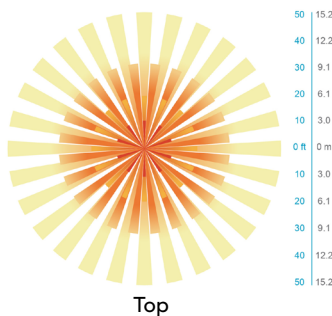
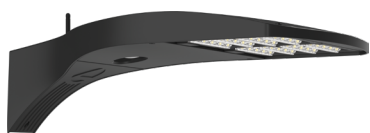


SPA8N



nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G. Low EPA (0.44 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

COASTAL CONSTRUCTION (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L80/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. PIR integrated motion sensor with on-board photocell feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN ACT

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for applications requiring low-profile, attractive emergency lighting with Optional normally-off or normally-on with photocell control. Provides a minimum of 90 minutes of illumination both indoors and outdoors upon loss of AC power. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — Compact, low-profile, architectural design with die-cast aluminum housing. Finishes are texturized powder coat paint for dark bronze, white, black and non-texturized for natural aluminum. Test switch indicator light and remote enabled are located on the bottom of the housing and are easily accessible and visible from the floor.

OPTICS — LEDs with L70 of 55,000 hours. Delivers 635 lumens in Normal-On and Emergency operation. Optional field configurable for wide and forward throw distribution (**U.S. Patent No. - US10236712 B2**).

Outdoor wide throw distribution: 70' (3' path of egress) at a 7.5' mounting height with 1 FC Average.

4,000K correlated color temperature (CCT).

70 CRI.

ELECTRICAL — UVOLT (120 thru 347V, 50/60hz). Current-limiting charger maximizes battery life and minimizes energy consumption to provide low operating costs. Small battery chargers Certified in the CA Title 20 Appliance Efficiency Database

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.

Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.

Photocell option (PEL) for normally on product in order to discontinue illumination during periods when ambient light is present. Photocell option (PEL) for normally on products allow the user to force lamp illumination by user control (external switch). When power is not connected to switched line, illumination will respond to internal daylight sensor. For switched line applications, no other types of products shall be connected on the switched leg.

Remote units (OELR) are normally off. Emergency only functionality with DC power from an external battery.

BATTERY: Sealed, maintenance-free Lithium Iron Phosphate battery.

SELF-DIAGNOSTICS AND REMOTE TEST (SDRT OPTION): Automatic 24-hour recharge after a 90-minute discharge. Advanced electrical design provides constant light output throughout the entire discharge period for non-CW batteries. (For cold weather and cold temperature applications, the light may diminish though the discharge cycle). Brownout protection is automatically switched to emergency mode when supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary. AC/LVD re-set allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Self-Diagnostics: Continuously monitors AC functionality. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state charging, test activation and three-state self-diagnostics.

Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (RTKIT accessory).

Manual testing: Test switch and remote tester (RTKIT accessory) provides manual activation of 60-second diagnostic testing for on-demand visual inspection. 90 minute manual testing can be enabled by pressing the test switch again while in test mode.

INSTALLATION — Wall mount: typically meets 7.5' to 14' mounting height from ground or floor. Power supplied by either mounting directly to a 4" square or 4" octagon j-box (wall mount) and accepts rigid or flex conduit.

LISTINGS — UL wet location listed standard at 32-122°F (0-50°C). Unit with CW battery (cold weather) listed for -22°F to 122°F (-30° to 50°C). Remote listed for -40°F to 122°F (-40° to 50°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(4), FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10. Meets City of Chicago Code.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Catalog Number	Section VII. Item #1.
Notes	
Type	

AFFINITY® Premium Die-Cast Architectural Emergency Light

AFF



without photocell (white)



without photocell
(natural aluminum)



with photocell (white)



with photocell
(dark bronze)

MOUNTING

All dimensions are inches (centimeters).

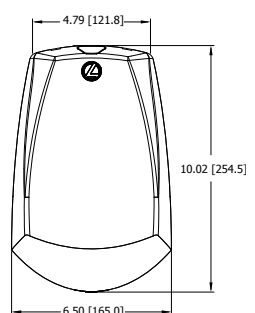
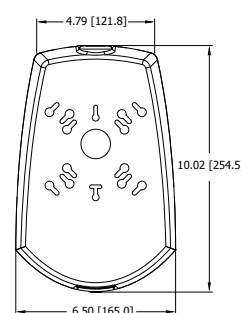
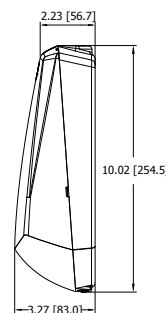
Shipping weight: 3.5 lbs. (1.59 kgs.)

Length: 6 1/2 (16.51)

Depth: 3 27/100 (8.30)

Height: 10 (25.45)

Weight : 3.5 lbs (1.59kg)



† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.

SELF-POWERED MODELS

ORDERING INFORMATION

For the shortest lead times, configure product using **bolded options**.

Example: AFF PEL DWHGXD UVOLT LTP SDRT WT

Series	Unit Type ¹	Housing Color	Voltage	Battery Type	Automatic Testing	Optics	Options
AFF AFFINITY Premium	PEL Photocell: Normally-ON with internal battery OEL Normally-OFF with internal battery	DWHGXD White textured DBLBXD Black textured DNAXD Natural aluminum DDBTXD Dark bronze textured	UVOLT 120-347VAC, 50/60Hz	LTP Lithium Iron Phosphate	SDRT Self-diagnostics remote test	WT Wide Throw FCT Field configurable throw ²	CW Cold Weather (-30 - 50C) BAA Buy America(n) Act Compliant

Notes

¹ AFF with internal battery is not remote capable.

REMOTE MODELS listed for -40°F to 122°F (-40° to 50°C)

ORDERING INFORMATION

For the shortest lead times, configure product using **bolded options**.

Example: AFF OELR DWHGXD WT

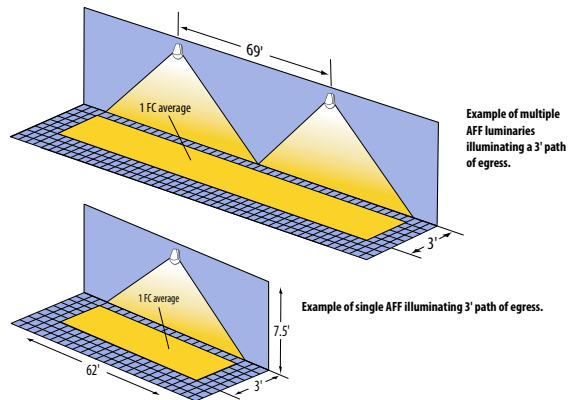
Series	Unit Type	Housing Color	Voltage	Optics	Options
AFF AFFINITY Premium	OELR Remote fixture, Normally OFF (requires external battery source)	DWHGXD White textured DBLBXD Black textured DNAXD Natural aluminum DDBTXD Dark bronze textured	(blank) Universal DC voltage (8-30VDC)	WT Wide Throw FCT Field configurable throw ¹	BAA Buy America(n) Act Compliant

Notes

¹ FCT optics ships standard in the WT (wide throw) mode. Upon installation, configuration can be changed to the FCT mode.

Accessories: Order as separate catalog number.	
RTKIT	Remote test kit, up to 40' away (includes goggles, laser and battery)

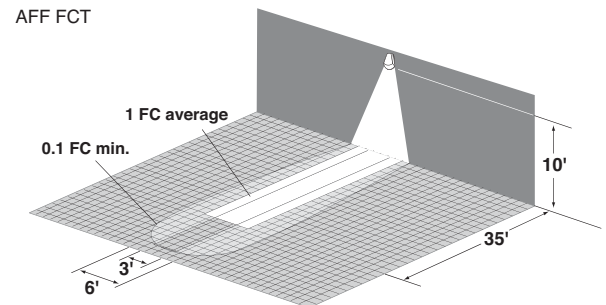
AFF SPACING GUIDELINES



Maximum Spacing Guidelines - AFF (WT)

Mounting Height	Illumination Level	Single Luminaire		Multiple Luminaire		Application Notes *
		3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	
7.5'	1FC Avg	62'	46'	69'	53'	200' Open Space 80/50/20 reflectances
10'		48'	34'	55'	46'	
12'		28'	22'	46'	41'	
14'		6'	N/A	38'	36'	

* Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.



Maximum Spacing Guidelines - AFF (FCT)

Mounting Height	Illumination Level	Single Luminaire		Application Notes *
		3' Path of Egress	6' Path of Egress	
7.5'	1FC Avg	24'	23'	200' Open Space 80/50/20 reflectances
10'		35'	35'	
12'		37'	31'	
14'		31'	N/A	

* Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.

SPECIFICATIONS

Electrical: Primary Circuit

Unit Type	Battery Type	Input Voltage(V)	Input Current(A)	Watts(W)
PEL WT	LTP	120-347	0.053-0.086	11.28
	LTP CW	120-347	0.089-0.167	20.39
PEL FCT	LTP	120-347	0.053-0.086	11.28
	LTP CW	120-347	0.089-0.167	20.39
OEL WT	LTP	120-347	0.025-0.032	2.50
	LTP CW	120-347	0.075-0.097	11.60
OEL FCT	LTP	120-347	0.025-0.032	2.50
	LTP CW	120-347	0.075-0.097	11.60
OELR WT	N/A	8-30	0.248 - 1.225	8.57*
OELR FCT	N/A	8-30	0.254 - 1.168	8.22*

*OELR watts data is in addition to the lamp heads on the product

BATTERY

Lithium Iron Phosphate					
Type	Voltage	Typical Shelf Life ¹	Typical Life ¹	Maintenance ²	Temperature range ^{3,4}
STD	12.8V	1 year	6-8 years	none	32 - 122°F (0 - 50°C)
CW	12.8V	1 year	6-8 years	none	-22 - 122°F (-30 - 50°C)

Notes

- 1 At 77°F (25°C).
- 2 Battery life is negatively impacted by many variables including temperature, charging rates, number of cycles and deep discharges due to long periods of time without AC power.
- 3 All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.
- 4 Temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. See option packages for expanded temperature ranges.

25HCE4

**Comfort™ 14 Heat Pump
with Puron® Refrigerant
1-1/2 To 5 Nominal Tons**



Turn to the experts

Product Data

Industry leading Features / Benefits



Comfort
SERIES

Efficiency

- 14 SEER / 11.0 - 11.5 EER / 8.2 HSPF
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 69 dBA
- Sound levels as low as 68 dBA with accessory sound blanket

Comfort

- System supports programmable or standard thermostat controls

Reliability

- Non-ozone depleting Puron® refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard
- Baked-on powder paint

Applications

- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient cooling (down to -10°F/-23.3°C) with accessory kit

Carrier heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 25HCE4 has been designed utilizing Carrier's non-ozone depleting Puron® refrigerant.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

Model Number Nomenclature

1	2	3	4	5	6	7	8	9	10	11	12	13						
N	N	A	A	A/N	N	N	N	A/N	A/N	A/N	N	N						
2	5	H	C	E	4	3	6	A	P	0	3	0						
Product Series		Product Family		Tier	Major Series		SEER		Cooling Capacity		Grille Variations		Variation	Outdoor Tube	Voltage	Minor Series		
25 = HP		H = RES HP		C=Comfort	E = Puron		4=14 SEER		A=Dense Grille		0=Not Defined P=No High Pressure Switch		0=Copper L = Aluminum		3=208-230-1 5=208/230-3 6=460/3		0, 1, 2...	



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.



Standard Features

Feature	18	24	30	36	42	48	60
Puron Refrigerant	X	X	X	X	X	X	X
Scroll Compressor	X	X	X	X	X	X	X
Field Installed Filter Drier	X	X	X	X	X	X	X
Front Seating Service Valves	X	X	X	X	X	X	X
Internal Pressure Relief Valve	X	X	X	X	X	X	X
Internal Thermal Overload	X	X	X	X	X	X	X
Long Line capability	X	X	X	X	X	X	X
Low Ambient cooling capability with Kit	X	X	X	X	X	X	X
Suction Line Accumulator	X	X	X	X	X	X	X
Loss of Charge Switch	X	X	X	X	X	X	X
Ball Bearing Fan Motor	X	X	X	X	X	X	X

X = Standard

Physical Data

UNIT SIZE - Series	18-30	24-30	30-30	36-31, 51, 61 36L-30	42-30 42L-30	48-30, 50, 60	60-30	60-50, 60
Compressor Type	Scroll							
REFRIGERANT	Puron® (R-410A)							
Control	TXV (Puron Hard Shutoff)							
Outdoor Heating Piston #	42	46	49	57	61	65	78	78
Charge lb (kg)	5.30 (2.4)	5.60 (2.5)	6.40 (2.9)	7.67 (3.48)	8.25 (3.74)	8.68 (3.94)	10.60 (4.81)	10.60 (4.81)
COND FAN	Forward Swept or Propeller Type, Direct Drive							
Air Discharge	Vertical							
Motor HP	1/12	1/10	1/4	1/5	1/4	1/4	1/4	1/4
Motor RPM	1100	1100	1100	1100	1100	1100	800	800
CFM	1700	2195	3365	3165	3800	3365	4470	4470
VALVE CONNECT. (In. ID)								
Vapor	5/8	5/8	3/4	3/4	7/8	7/8	7/8	7/8
Liquid	3/8							
REFRIGERANT TUBES* (In. OD)								
Rated Vapor	5/8	5/8	3/4	3/4	7/8	7/8	1-1/8	1-1/8
Max Liquid Line	3/8							

*. Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit Installation Instruction for proper installation.

Vapor Line Sizing and Cooling Capacity Loss

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for HP systems with Puron refrigerant:

Vapor Line Sizing and Cooling Capacity Losses - Puron Refrigerant 1- Stage Heat Pump Applications

Unit Nominal Size (Btuh)	Acceptable Vapor Line Diameters (In. OD)	Cooling Capacity Loss (%) Total Equivalent Line Length (ft)										
		Standard Application				Long Line Application Requires Accessories						
		25 (7.62)	50 (15.2)	80 (24.4)	80+ (24.4+)	100 (30.48)	125 (38.10)	150 (45.72)	175 (53.34)	200 (60.96)	225 (68.58)	250 (76.20)
18,000	1/2	1	2	3	3	4	6	7	8	9	10	12
	5/8	0	0	1	1	1	1	2	2	3	3	3
24,000	5/8	0	1	1	1	2	3	3	4	4	5	6
	3/4	0	0	0	0	0	1	1	1	1	1	2
30,000	5/8	1	2	3	3	3	4	5	6	7	8	9
	3/4	0	0	1	1	1	1	2	2	2	3	3
	7/8	0	0	0	0	0	1	1	1	1	1	1
36,000	5/8	1	2	4	4	5	6	7	9	10	11	13
	3/4	0	0	1	1	1	2	2	3	3	4	4
	7/8	0	0	0	0	0	1	1	1	1	2	2
42,000	3/4	0	1	2	2	2	3	4	4	5	6	6
	7/8	0	0	1	1	1	1	2	2	2	3	3
48,000	3/4	0	1	2	2	3	4	5	5	6	7	8
	7/8	0	0	1	1	1	2	2	2	3	3	4
60,000	3/4	1	2	4	4	5	6	7	9	10	11	12
	7/8	0	1	2	2	2	3	4	4	5	5	6
	1 1/8	0	0	0	0	1	1	1	1	1	1	2
Standard Length = 80 ft. (24.4 m) or less total equivalent length												
Applications in this area are long line. Accessories are required as shown recommended on Long Line Application Guidelines												
Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit See Long Line Application Guidelines												

Refrigerant Piping Length Limitations

Maximum Line Lengths:

The maximum allowable total equivalent length for heat pumps varies depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the indoor unit.

Maximum Line Lengths for Heat Pump Applications

	MAXIMUM ACTUAL LENGTH* ft (m)	MAXIMUM EQUIVALENT LENGTH{ ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	200 (61)	250 (76.2)	N/A
Outdoor unit ABOVE indoor unit	200 (61)	250 (76.2)	200 (61)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

, Maximum actual length not to exceed 200 ft (61 m)

Maximum Total Equivalent Length* { - Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	HP with Puron® Refrigerant - Maximum Total Equivalent Length Vertical Separation ft (m) Outdoor unit BELOW indoor unit;						
		0-20 (0 - 6.1)	21-30 (6.4 - 9.1)	31-40 (9.4 - 12.2)	41-50 (12.5 - 15.2)	51-60 (15.5 - 18.3)	61-70 (18.6 - 21.3)	71-80 (21.6 - 24.4)
18,000	3/8	250*	250*	250*	250*	250*	250*	250*
24,000	3/8	250*	250*	250*	250*	250*	250*	250*
30,000	3/8	250*	250*	250*	250*	250*	250*	250*
36,000	3/8	250*	250*	250*	250*	250*	250*	250*
42,000	3/8	250*	250*	250*	250*	250*	250*	150
48,000	3/8	250*	250*	250*	250*	230	160	—
60,000	3/8	250*	225*	190	150	110	—	—

*, Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

— = outside acceptable range

Long Line Applications

An application is considered Long Line when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For Heat Pump systems, the chart below shows when an application is considered Long Line. Beyond these lengths, long line accessories are required:

HP with Puron Refrigerant Long Line Description ft (m) Beyond these lengths, long line accessories are required

Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
3/8	80 (24.4)	20 (6.1) vertical or 80 (24.4) total	80 (24.4)

Note: See Long Line Guideline for details

Accessories

ORDER NUMBER	KIT DESCRIPTION	Unit Size-Voltage, Series												
		18-30	24-30	30-30	36-31 36L-30	36-51	36-61	42-30 42L-30	48-30	48-50	48-60	60-30	60-50	60-60
KAACH1601AAA	CRANKCASE HTR							X	X			X		
KAACH1701AAA	CRANKCASE HTR	X	X	X	X	S	S			S	S		S	S
KAACS0201PTC	KIT PTC	X	X	X	X			X	X			X		
KAATD0101TDR	TIME DELAY RELAY	X	X	X	X	X	X	X	X	X	X	X	X	X
KHAIR0201AAA	ISOLATION RELAY	X	X	X	X	X	X	X	X	X	X	X	X	X
KHALS0401LLS	SOLENOID VALVE	X	X	X	X	X	X	X	X	X	X	X	X	X
KHASS0606MPK	SNOW STAND	X	X	X	X	X	X	X	X	X	X	X	X	X
KSACY0101AAA	CYCLE PROT	X	X	X	X	X	X	X	X	X	X	X	X	X
KSAFT0101AAA	FREEZE TSTAT	X	X	X	X	X	X	X	X	X	X	X	X	X
KSAHI0401PUR	HIGH PRESSURE SWITCH	X	X	X	X	X	X	X	X	X	X	X	X	X
KSAHS2501AAA	HARD START	X	X	X	X							X		
KSAHS2701AAA	HARD START							X	X					
KSALA0301410	LOW AMBIENT COOLING PRESSURE SWITCH	X	X	X	X	X	X	X	X	X	X	X	X	X
KSALA0601AAA	MOTORMASTER*	X	X	X	X	X		X	X	X		X	X	
KSALA0701AAA	MOTORMASTER*						X				X			X
KSASF0201AAA	SUPPORT FEET	X	X	X	X	X	X	X	X	X	X	X	X	X
KSASH2301COP	SOUND BLANKET	X	X	X	X	X	X							
KSASH2401COP	SOUND BLANKET							X	X	X	X	X	X	X
KSATX0201PUR	TXV KIT	X	X	X										
KSATX0301PUR	TXV KIT				X	X	X	X						
KSATX0401PUR	TXV KIT								X	X	X	X	X	X
KSBTX0201PUR	TXV KIT	X	X	X										
KSBTX0301PUR	TXV KIT				X	X	X	X						
KSBTX0401PUR	TXV KIT								X	X	X	X	X	X

X = Accessory

S = Standard

* If ball bearing fan motor accessory is not listed, the unit comes factory supplied with a ball bearing motor and accessory motor is not required

Accessory Usage Guideline

Accessory	REQUIRED FOR LOW-AMBIENT COOLING APPLICATIONS (Below 55°F / 12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS*	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles / 3.22 km)
Accumulator	Standard	Standard	Standard
Ball Bearing Fan Motor	Yes†	No‡	No‡
Compressor Start Assist Capacitor and Relay	Yes**	Yes**	No**
Crankcase Heater	Yes‡	Yes‡	No‡
Evaporator Freeze Thermostat	Yes	No	No
Hard Shutoff TXV	Yes	Yes	No
Isolation Relay	Yes	No	No
Liquid Line Solenoid Valve	No	See Long-Line Application Guideline	No
Motor Master® Control or Low Ambient Cooling Pressure Switch	Yes	No	No
Support Feet	Recommended	No	Recommended

*.*For tubing line sets between 80 and 200 ft. (24.38 and 60.96 m) and/or 20 ft. (6.09 m) vertical differential, refer to Residential Split-System Longline Application Guideline.

†.Additional requirement for Low-Ambient Controller (full modulation feature) MotorMaster® Control.

‡.Standard for 3 phase units only

**..Not required for 3-phase units.

Accessory Description and Usage (Listed Alphabetically)

1. Ball-Bearing Fan Motor

A fan motor with ball bearings which permits speed reduction while maintaining bearing lubrication.

Usage Guideline:

Required on all units when using MotorMaster®

2. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a hard boost to compressor motor at each start up.

Usage Guideline:

Required for reciprocating compressors in the following applications:

Long Line

Low ambient cooling

Hard shut off expansion valve on indoor coil

Liquid line solenoid on indoor coil

Required for single-phase scroll compressors in the following applications:

Long line

Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

3. Compressor Start Assist — PTC Type

Solid state electrical device which gives a soft boost to the compressor at each start-up.

Usage Guideline:

Suggested for single phase unit installations with marginal power supply.

4. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

Required in low ambient cooling applications.

Required in long line applications.

Suggested in all commercial applications.

5. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient cooling kit has been added.

6. Isolation Relay

An SPDT relay which switches the low-ambient controller out of the outdoor fan motor circuit when the heat pump switches to heating mode.

Usage Guideline:

Required in all heat pumps where low ambient cooling kit has been added.

7. Liquid-Line Solenoid Valve (LLS)

An electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It is to be installed at the outdoor unit to control refrigerant off cycle migration in the heating mode.

Usage Guideline:

An LLS is required in all long line heat pump applications to control refrigerant off cycle migration in the heating mode. See Long Line Guideline.

8. Low-Ambient Cooling Pressure Switch Kit

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits. The control will maintain working head pressure at low-ambient temperatures down to 0°F (-18°C) when properly installed.

Usage Guideline:

A Low-Ambient Cooling Pressure Switch or MotorMaster® low-ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

9. MotorMaster® Low-Ambient Cooling Controller

A fan-speed control device activated by a temperature sensor, designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -10°F (-23.3°C), it maintains condensing temperature at 100°F ±10°F (37.8°C ± 6.5°C).

Usage Guideline:

A MotorMaster® low ambient Controller or low-ambient pressure switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

Suggested for all commercial applications.

Accessory Description and Usage (Listed Alphabetically) continued**10. Outdoor Air Temperature Sensor**

Designed for use with Carrier Thermostats listed in this publication. This device enables the thermostat to display the outdoor temperature. This device also is required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for all Carrier thermostats listed in this publication.

11. Snow Stand Rack

Coated wire rack which supports unit 18 in. (457.2 mm) above mounting pad to allow for drainage from unit base.

Usage Guideline:

Suggested in the following applications:

Heat pump installations in heavy snowfall areas.

Heat pump installations in snow drift locations.

Heat pump installations in areas of prolonged subfreezing temperatures.

All commercial installations.

12. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level by about 2 dBA.

Usage Guideline:

Suggested when unit is installed closer than 15 ft. (4.577 m) to quiet areas, bedrooms, etc.

Suggested when unit is installed between two houses less than 10 ft. (3.05 m) apart.

13. Thermostatic Expansion Valve (TXV) Bi-Flow

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

Accessory required to meet AHRI rating and system reliability, where indoor not equipped.

Required in all heat pump applications designed with Puron refrigerant.

14. Time-Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off.

NOTE: Most indoor unit controls include this feature. For those that do not, use the guideline below.

Usage Guideline:

Accessory required to meet AHRI rating, where indoor not equipped.

Electrical Data

UNIT SIZE - Voltage, Series	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE† or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
18 - 30	208-230-1	253	197	48.0	9.00	0.50	11.8	20
24 - 30				62.9	10.90	0.60	14.2	25
30 - 30				72.5	13.50	1.40	18.3	30
36 - 31				75.0	15.10	1.10	20.0	30
36L-30				75.0	14.90	1.10	19.7	30
42 - 30				105.5	18.10	1.40	24.0	40
42L-30				105.5	16.20	1.40	21.7	30
48 - 30				108.0	19.00	1.40	25.2	40
60 - 30	208/230-3	253	187	144.2	24.40	1.52	32.0	50
36 - 51				70.0	8.46	1.10	11.7	20
48 - 50				123.0	10.44	1.40	14.5	25
60 - 50	460-3	506	414	110.0	15.96	1.52	21.5	30
36 - 61				31.0	3.85	0.60	5.4	15
48 - 60				60.0	6.00	0.77	8.3	15
60 - 60				52.0	7.75	0.77	10.5	15

*. Permissible limits of the voltage range at which the unit will operate satisfactorily

†. **Time-Delay fuse.

FLA—Full Load Amps

LRA—Locked Rotor Amps

MCA—Minimum Circuit Amps

RLA—Rated Load Amps

NOTE: Control circuit is 24-V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with requirements of ASHRAE Standards 90.1

A-Weighted Sound Power Without Sound Hood

UNIT SIZE-VOLTAGE, SERIES	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB, without tone adjustment)						
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
18-30	69	65	64	65	67	59	57	54
24-30	76	66	70	70	70	67	64	55
30-30	77	71	74	75	73	69	66	61
36-31, 51, 61, 36L-30	78	76	75	75	73	69	67	62
42-30, 42L-30	76	70	74	71	71	65	64	58
48-30, 50, 60	79	72	78	77	76	70	67	61
60-30	73	71	74	71	69	64	61	58
60-50, 60	76	73	74	72	72	69	64	63

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI).

A-Weighted Sound Power with Sound Hood

UNIT SIZE-VOLTAGE, SERIES	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB, without tone adjustment)						
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
18-30	68	66	65	64	65	59	56	52
24-30	74	67	70	70	68	65	61	56
30-30	77	72	74	75	72	69	66	60
36-31, 51, 61, 36L-30	78	76	76	76	73	69	65	60
42-30, 42L-30	74	71	74	70	70	65	62	56
48-30, 50, 60	79	73	79	77	75	70	67	61
60-30	73	72	75	70	68	63	60	55
60-50, 60	76	72	72	71	72	69	64	63

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI).

Charging Subcooling (TXV-Type Expansion Device)

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UNIT SIZE-VOLTAGE	REQUIRED SUBCOOLING °F (°C)
18-30	11 (6.1)
24-30	11 (6.1)
30-30	10 (5.6)
36-31, 36L-30	10 (5.6)
36-51, 61	11 (6.1)
42-30	10 (5.6)
42L-30	11 (6.1)
48-30, 50, 60	14 (7.8)
60-30, 50, 60	15 (8.3)

HP Only Replacement with Piston Indoors

When the 25HCE4 is used as a replacement component in a system with a piston fan coil, use the indoor piston size specified below:

UNIT SIZE	PISTON SIZE		
	FB4CNF	FFM	FPMA
18	0.052	0.050	0.050
24	0.057	0.057	0.056
30	0.067	0.070	0.067
36	0.070	0.072	0.069
42	0.078		
48	0.084		
60			

= N/A

Dimensions

Section VII. Item #1.

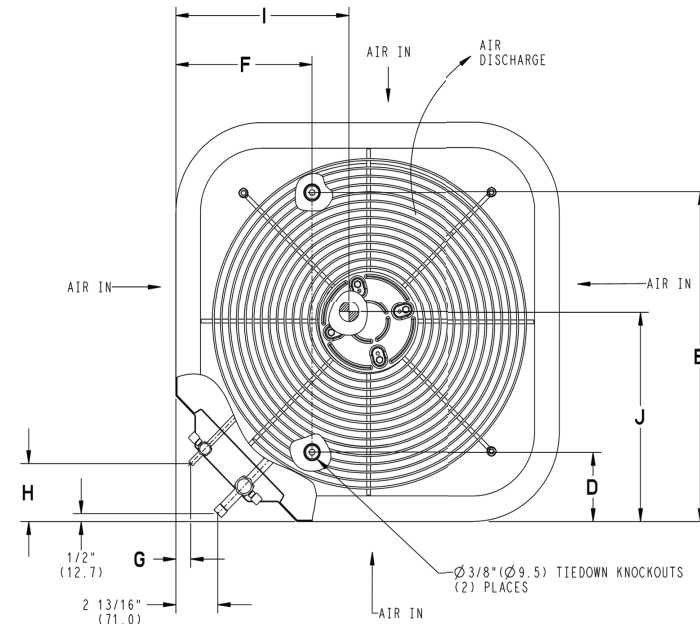
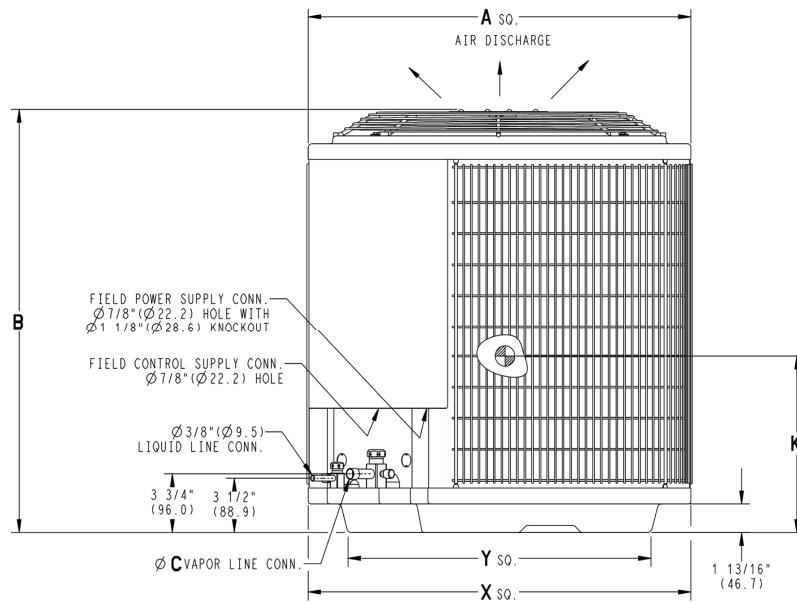
E4 Sales Data: Product Data

UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT	
						INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
25HCE418AP030011	0	Y	N	N	N	23 1/8	587.3	35 1/2	902.0	5/8	15.9	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	1 1/8	28.2	3 13/16	97.4	11	279.4	15 3/4	400.1	12	304.8	136	61.7	150	68.0	26	660.0	40 3/4	1034.8
25HCE424AP030011	0	Y	N	N	N	25 3/4	654.0	35 1/2	901.4	5/8	15.9	4 7/16	113.0	21 1/4	539.9	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	12	304.8	13 1/4	336.6	13 1/2	342.9	144	65.3	158	71.7	28 3/4	730.0	40 3/4	1034.8
25HCE430AP030011	0	Y	N	N	N	31 3/16	792.5	32 1/16	815.1	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15	381.0	11	279.4	16	406.4	158	71.7	175	79.4	34 1/4	870.0	37 5/16	947.9
25HCE436AP031011	1	Y	N	N	N	31 3/16	792.5	28 11/16	728.7	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 3/4	400.1	14	355.6	10 3/4	273.1	170	77.1	186	84.4	34 1/4	870.0	33 15/16	861.6
25HCE436AP051011	1	N	Y	N	N	31 3/16	792.5	28 11/16	728.7	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 3/4	400.1	14	355.6	10 3/4	273.1	170	77.1	186	84.4	34 1/4	870.0	33 15/16	861.6
25HCE436AP061011	1	N	N	Y	N	31 3/16	792.5	28 11/16	728.7	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 3/4	400.1	14	355.6	10 3/4	273.1	170	77.1	186	84.4	34 1/4	870.0	33 15/16	861.6
25HCE436APL30011	0	Y	N	N	N	31 3/16	792.5	28 11/16	728.7	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 3/4	400.1	14 1/4	362.0	12 1/2	317.5	170	76.9	186	84.4	34 1/4	870.0	33 15/16	861.6
25HCE442AP030011	0	Y	N	N	N	31 3/16	792.5	38 7/8	987.8	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 1/2	393.7	13 1/2	342.9	14	355.6	201	91.2	219	99.3	34 1/4	870.0	44 1/8	1120.7
25HCE442APL30011	0	Y	N	N	N	31 3/16	792.5	38 7/8	987.8	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14 5/8	371.5	16 1/8	409.6	17	431.8	190	86.0	207	93.9	34 1/4	870.0	44 1/8	1120.7
25HCE448AP030011	0	Y	N	N	N	31 3/16	792.5	28 11/16	728.7	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	16 1/2	419.1	11 1/2	292.1	15	381.0	197	89.4	213	96.6	34 1/4	870.0	33 15/16	861.6
25HCE448AP050011	0	N	Y	N	N	31 3/16	792.5	28 11/16	728.7	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	16 1/2	419.1	11 1/2	292.1	15	381.0	197	89.4	213	96.6	34 1/4	870.0	33 15/16	861.6
25HCE448AP060011	0	N	N	Y	N	31 3/16	792.5	28 11/16	728.7	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	16 1/2	419.1	11 1/2	292.1	15	381.0	197	89.4	213	96.6	34 1/4	870.0	33 15/16	861.6
25HCE460AP030011	0	Y	N	N	N	31 3/16	792.5	32 1/16	815.1	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14 3/4	374.7	15 3/4	400.1	16 1/4	412.8	212	96.2	229	103.9	34 1/4	870.0	37 5/16	947.9
25HCE460AP050011	0	N	Y	N	N	31 3/16	792.5	32 1/16	815.1	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14 3/4	374.7	15 3/4	400.1	16 1/4	412.8	212	96.2	229	103.9	34 1/4	870.0	37 5/16	947.9
25HCE460AP060011	0	N	N	Y	N	31 3/16	792.5	32 1/16	815.1	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14 3/4	374.7	15 3/4	400.1	16 1/4	412.8	212	96.2	229	103.9	34 1/4	870.0	37 5/16	947.9

208-230-1-60	Y-YES
208-230-3-60	N-NO
460-5-60	
575-5-60	

NOTES:

1. CENTER OF GRAVITY



UNIT SIZE	"X"		"Y"	
	MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
18	23 1/8	587.3	17 7/8	454.6
24	25 3/4	654.0	20 7/16	518.5
30,36,42,48,60	31 3/16	792.5	22 15/16	583.2
-	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

E4 Sales Data

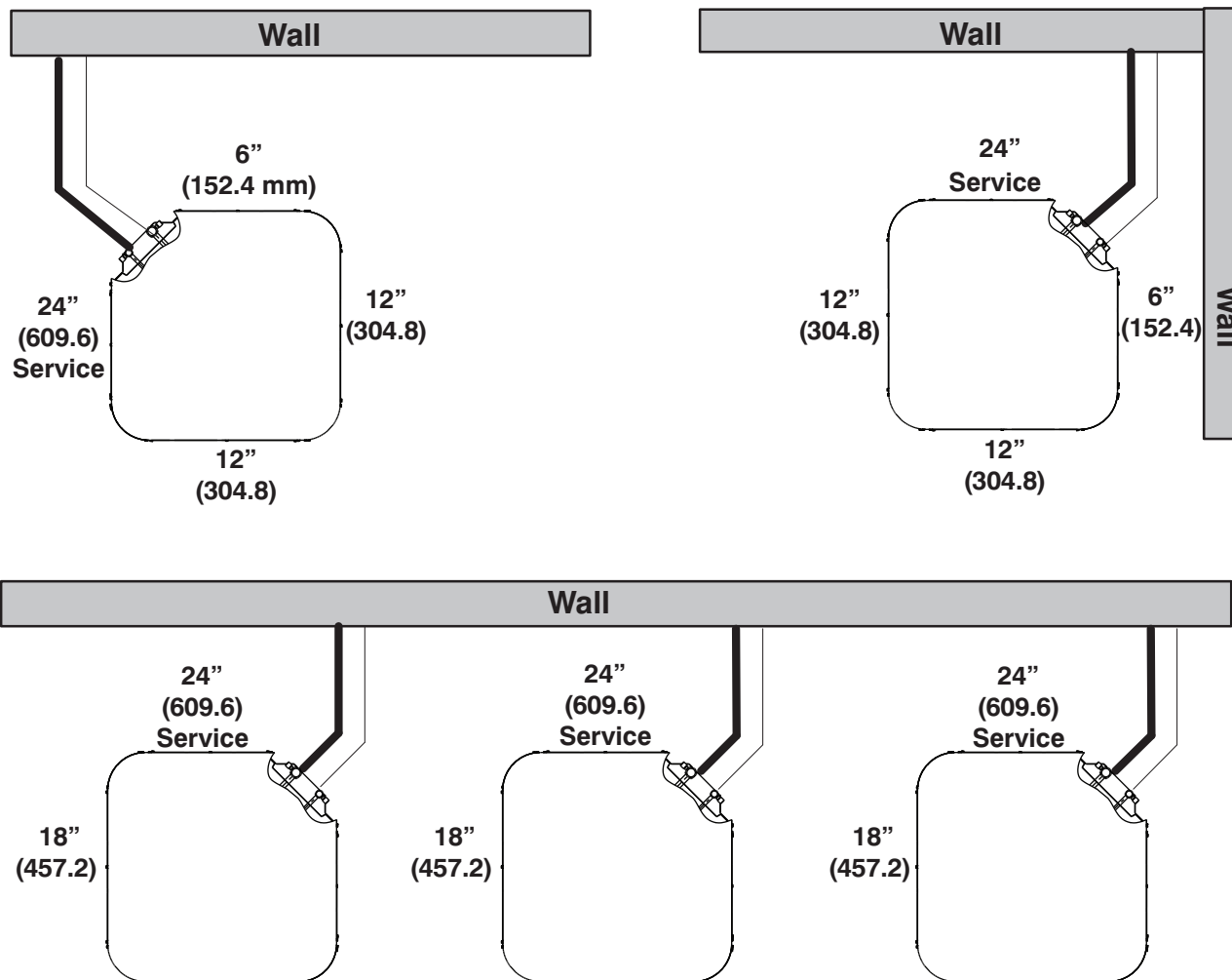
ATTACHMENT 2

Clearances

Section VII. Item #1.

Source: Product Data

Clearances (various examples)



Note: Numbers in () = mm
Allow 48" above unit

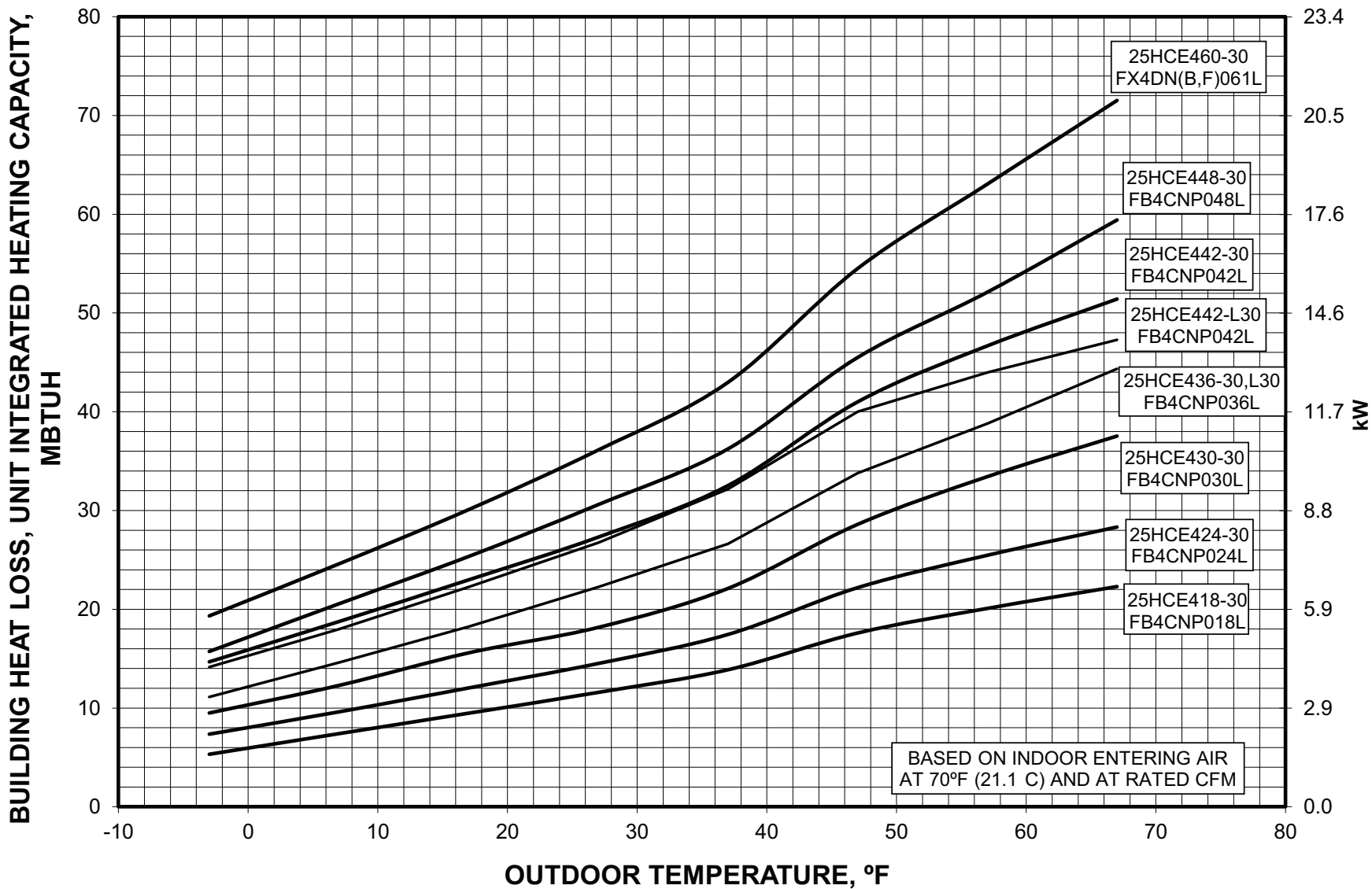
IMPORTANT: When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

ATTACHMENT 2

Balance Point Worksheet

Section VII. Item #1.

Source: Product Data



Tested AHRI Combination Ratings

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory www.ahridirectory.org

Additional ratings and system combinations can be accessed via the Carrier database at: www.MyCarrierRatings.com

For performance data at specific application &/or design conditions with various indoor unit combinations, the equipment performance calculator can be accessed at: <http://rpmob.wrightsoft.com/>

Model Number	Indoor Coil Model Number	Cooling Capacity	EER	SEER	High Temp		HSPF	Low Temp	
					E Capacity	E COP		H Capacity	H COP
25HCE418AP030	FB4CNP018L	17,800	11.5	14	17,600	3.72	8.2	10,400	2.40
25HCE424AP030	FB4CNP030L	22,200	11.5	14	22,200	3.84	8.2	13,200	2.54
25HCE430AP030	FB4CNP030L	28,600	11.5	14	28,600	3.62	8.2	17,100	2.44
25HCE436AP031	FB4CNP036L	33,000	11.5	14	33,800	3.62	8.2	20,800	2.40
25HCE436APL30	FB4CNP036L	33,000	11.5	14	33,800	3.70	8.2	20,000	2.44
25HCE436AP051, 61	FB4CNP036L	33,000	11.0	14	33,000	3.64	8.2	20,800	2.46
25HCE442AP030	FB4CNP042L	40,000	11.5	14	41,000	3.62	8.2	25,200	2.50
25HCE442APL30	FB4CNP042L	40,000	11.5	14	40,000	3.58	8.2	24,400	2.50
25HCE448AP030, 50, 60	FB4CNP048L	46,000	11.5	14	45,500	3.64	8.2	27,800	2.56
25HCE460AP030, 50, 60	FX4DN(B,F)061L	57,000	11.5	14	54,500	3.70	8.2	33,000	2.56

Cooling Standard: 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

High-Temp Heating Standard: 70°F (21°C) db indoor entering air temperature and 47°F (8°C) db 43°F (6°C) wb air entering outdoor unit.

Low-Temp Heating Standard: 70°F (21°C) db indoor entering air temperature and 17°F (-8°C) db 15°F (-9°C) wb air entering outdoor unit.

COP — Coefficient of Performance

EER — Energy Efficiency Ratio

HSPF — Heating Seasonal Performance Factor

SEER — Seasonal Energy Efficiency Ratio

Detailed Cooling Capacities[#]

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)		85 (29.4)				95 (35)				105 (40.6)				115 (46.1)			
		Capacity MBtuh		Total Syst. KW**		Capacity MBtuh		Total Syst. KW**		Capacity MBtuh		Total Syst. KW**		Capacity MBtuh		Total Syst. KW**		Capacity MBtuh	
CFM	EWB °F (°C)	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†
25HCE418-30 Outdoor Section With FB4CNP018L Indoor Section																			
525	72 (22.2)	21.99	11.23	1.19	20.64	10.68	1.36	19.27	10.11	1.54	17.87	9.55	1.75	16.42	8.98	1.98	14.95	8.40	2.24
	67 (19.4)	19.94	13.74	1.18	18.72	13.15	1.35	17.47	12.55	1.53	16.18	11.95	1.74	14.86	11.33	1.97	13.51	10.71	2.22
	63 (17.2)††	18.46	13.21	1.18	17.33	12.63	1.35	16.16	12.04	1.53	14.96	11.44	1.73	13.73	10.83	1.96	12.47	10.21	2.22
	62 (16.7)	18.10	16.18	1.18	17.00	15.54	1.34	15.88	14.89	1.53	14.73	14.19	1.73	13.63	13.63	1.96	12.59	12.59	2.22
600	57 (13.9)	17.41	17.41	1.18	16.52	16.52	1.34	15.58	15.58	1.52	14.62	14.62	1.73	13.61	13.61	1.96	12.57	12.57	2.22
	72 (22.2)	22.45	11.80	1.20	21.05	11.23	1.37	19.62	10.65	1.56	18.16	10.07	1.76	16.67	9.49	1.99	15.15	8.90	2.25
	67 (19.4)	20.38	14.65	1.20	19.11	14.03	1.37	17.80	13.41	1.55	16.47	12.79	1.75	15.10	12.15	1.98	13.71	11.50	2.24
	63 (17.2)††	18.88	14.06	1.19	17.70	13.45	1.36	16.49	12.84	1.54	15.24	12.21	1.75	13.97	11.58	1.98	12.67	10.94	2.23
675	62 (16.7)	18.56	17.37	1.19	17.43	16.67	1.36	16.27	16.27	1.54	15.23	15.23	1.75	14.16	14.16	1.98	13.06	13.06	2.23
	57 (13.9)	18.19	18.19	1.19	17.23	17.23	1.36	16.24	16.24	1.54	15.21	15.21	1.75	14.14	14.14	1.98	13.04	13.04	2.23
	72 (22.2)	22.80	12.34	1.22	21.36	11.75	1.39	19.88	11.16	1.57	18.39	10.57	1.78	16.86	9.97	2.01	15.30	9.37	2.27
	67 (19.4)	20.71	15.51	1.21	19.40	14.88	1.38	18.06	14.23	1.56	16.69	13.58	1.76	15.29	12.92	2.00	13.87	12.24	2.25
700	63 (17.2)††	19.20	14.86	1.21	17.98	14.23	1.37	16.74	13.60	1.56	15.46	12.95	1.76	14.15	12.29	1.99	12.83	11.62	2.25
	62 (16.7)	18.96	18.41	1.21	17.86	17.86	1.37	16.80	16.80	1.56	15.72	15.72	1.76	14.60	14.60	1.99	13.44	13.44	2.25
	57 (13.9)	18.84	18.84	1.21	17.83	17.83	1.37	16.78	16.78	1.56	15.70	15.70	1.76	14.58	14.58	1.99	13.42	13.42	2.25
25HCE424-30 Outdoor Section With FB4CNP030L Indoor Section																			
700	72 (22.2)	27.88	14.26	1.36	25.95	13.50	1.61	24.01	12.73	1.91	22.05	11.96	2.25	20.07	11.19	2.66	18.05	10.40	3.12
	67 (19.4)	25.38	17.64	1.37	23.61	16.80	1.62	21.83	15.96	1.91	20.05	15.11	2.26	18.22	14.25	2.66	16.40	13.38	3.12
	63 (17.2)††	23.55	16.97	1.37	21.91	16.14	1.62	20.26	15.30	1.92	18.58	14.46	2.26	16.90	13.62	2.66	15.50	10.97	3.05
	62 (16.7)	23.71	18.90	1.39	21.59	19.96	1.62	20.00	18.99	1.92	18.55	17.64	2.26	16.97	16.97	2.66	15.48	15.48	3.13
800	57 (13.9)	22.57	22.57	1.38	21.19	21.19	1.63	19.80	19.80	1.92	18.39	18.39	2.26	16.94	16.94	2.66	15.46	15.46	3.13
	72 (22.2)	28.38	14.99	1.38	26.39	14.20	1.63	24.38	13.41	1.92	22.36	12.61	2.27	20.33	11.82	2.67	18.26	11.02	3.14
	67 (19.4)	25.85	18.82	1.38	24.03	17.94	1.64	22.20	17.06	1.93	20.35	16.17	2.28	18.49	15.28	2.68	16.61	14.36	3.14
	63 (17.2)††	24.02	18.06	1.39	22.32	17.20	1.64	20.62	16.33	1.94	18.90	15.45	2.28	17.16	14.57	2.68	15.41	13.66	3.15
900	62 (16.7)	23.75	22.40	1.39	22.17	21.26	1.64	20.60	20.60	1.93	19.10	19.10	2.28	17.57	17.57	2.68	16.00	16.00	3.15
	57 (13.9)	23.50	23.50	1.39	22.04	22.04	1.64	20.57	20.57	1.93	19.07	19.07	2.28	17.55	17.55	2.68	15.98	15.98	3.15
	72 (22.2)	28.76	15.68	1.39	26.71	14.88	1.64	24.66	14.06	1.94	22.59	13.25	2.29	20.51	12.43	2.69	18.41	11.61	3.16
	67 (19.4)	26.21	19.94	1.40	24.35	19.02	1.65	22.47	18.11	1.95	20.59	17.18	2.29	18.69	16.24	2.70	16.79	15.27	3.16
1050	63 (17.2)††	24.38	19.10	1.40	22.64	18.20	1.66	20.89	17.30	1.95	19.14	16.39	2.30	17.37	15.45	2.70	15.59	14.49	3.17
	62 (16.7)	24.53	22.87	1.40	23.10	20.91	1.66	21.23	21.23	1.95	19.66	19.66	2.30	18.06	18.06	2.70	16.43	16.43	3.17
	57 (13.9)	24.27	24.27	1.40	22.74	22.74	1.66	21.20	21.20	1.95	19.63	19.63	2.30	18.04	18.04	2.70	16.41	16.41	3.17
25HCE430-30 Outdoor Section With FB4CNP030L Indoor Section																			
875	72 (22.2)	34.32	17.82	1.83	32.63	17.00	2.11	30.87	16.16	2.45	29.00	15.31	2.83	27.02	14.44	3.29	24.90	13.54	3.82
	67 (19.4)	31.12	21.91	1.83	29.57	21.02	2.11	27.96	20.13	2.45	26.25	19.22	2.83	24.44	18.28	3.29	22.51	17.31	3.82
	63 (17.2)††	28.80	21.05	1.83	27.36	20.17	2.12	25.86	19.29	2.45	24.27	18.39	2.83	22.59	17.46	3.29	20.79	16.50	3.82
	62 (16.7)	28.27	25.88	1.83	26.88	24.90	2.12	25.44	23.90	2.45	23.95	22.83	2.83	22.44	22.44	3.29	20.97	20.97	3.82
1050	57 (13.9)	27.33	27.33	1.83	26.19	26.19	2.12	25.01	25.01	2.45	23.76	23.76	2.83	22.41	22.41	3.28	20.95	20.95	3.82
	72 (22.2)	35.21	19.02	1.86	33.42	18.16	2.15	31.57	17.30	2.49	29.61	16.42	2.88	27.53	15.51	3.33	25.31	14.58	3.87
	67 (19.4)	31.94	23.85	1.87	30.30	22.92	2.15	28.60	21.97	2.49	26.81	21.01	2.88	24.92	20.01	3.33	22.91	18.98	3.86
	63 (17.2)††	29.58	22.85	1.87	28.06	21.93	2.15	26.47	21.00	2.49	24.81	20.04	2.88	23.05	19.06	3.33	21.19	18.04	3.87
1125	62 (16.7)	29.18	28.33	1.87	27.76	27.51	2.15	26.36	26.36	2.49	24.99	24.99	2.87	23.53	23.53	3.33	21.94	21.94	3.86
	57 (13.9)	28.84	28.84	1.87	27.62	27.62	2.15	26.33	26.33	2.49	24.96	24.96	2.87	23.50	23.50	3.33	21.91	21.91	3.87
	72 (22.2)	35.51	19.52	1.88	33.70	18.65	2.17	31.81	17.78	2.50	29.81	16.88	2.89	27.70	15.96	3.35	25.45	15.02	3.89
	67 (19.4)	32.22	24.66	1.88	30.55	23.70	2.17	28.82	22.74	2.50	27.00	21.75	2.89	25.08	20.73	3.35	23.05	19.66	3.88
1125	63 (17.2)††	29.85	23.60	1.88	28.30	22.66	2.17	26.69	21.71	2.51	24.99	20.73	2.89	23.21	19.71	3.35	21.33	18.66	3.88
	62 (16.7)	29.48	29.48	1.88	28.16	28.16	2.17	26.83	26.83	2.51	25.42	25.42	2.89	23.91	23.91	3.35	22.28	22.28	3.88
1125	57 (13.9)	29.40	29.40	1.88	28.13	28.13	2.17	26.80	26.80	2.51	25.39	25.39	2.89	23.88	23.88	3.35	22.25	22.25	3.89

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Detailed Cooling Capacities[#] continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																							
		75 (23.9)				85 (29.4)				95 (35)				105 (40.6)				115 (46.1)				125 (51.7)			
CFM	EWB °F (°C)	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**			
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
25HCE436-31 Outdoor Section With FB4CNP036L Indoor Section																									
1050	72 (22.2)	40.68	21.14	2.30	38.36	20.17	2.57	36.02	19.20	2.86	33.60	18.21	3.18	31.07	17.19	3.55	28.40	16.15	3.99						
	67 (19.4)	36.54	25.79	2.27	34.46	24.78	2.54	32.38	23.78	2.82	30.23	22.77	3.14	27.97	21.72	3.51	25.58	20.63	3.95						
	63 (17.2)††	33.59	24.68	2.24	31.70	23.70	2.51	29.79	22.73	2.80	27.83	21.74	3.11	25.76	20.71	3.49	23.57	19.64	3.93						
	62 (16.7)	32.94	30.29	2.24	31.13	29.22	2.51	29.31	28.12	2.79	27.47	26.98	3.11	25.82	24.96	3.49	24.03	23.08	3.94						
	57 (13.9)	31.69	31.69	2.23	30.22	30.22	2.50	28.74	28.74	2.79	27.19	27.19	3.11	25.53	25.53	3.49	23.74	23.74	3.94						
1200	72 (22.2)	41.59	22.19	2.36	39.16	21.19	2.63	36.70	20.18	2.91	34.18	19.17	3.23	31.53	18.12	3.60	28.77	17.05	4.04						
	67 (19.4)	37.36	27.46	2.32	35.18	26.41	2.59	33.00	25.37	2.87	30.75	24.32	3.19	28.40	23.22	3.56	25.93	22.07	4.00						
	63 (17.2)††	34.35	26.23	2.29	32.37	25.21	2.56	30.36	24.19	2.84	28.32	23.16	3.16	26.17	22.09	3.53	23.91	20.96	3.98						
	62 (16.7)	33.78	32.40	2.29	31.91	31.20	2.56	30.21	29.45	2.84	28.56	27.48	3.17	26.81	25.29	3.54	24.57	24.57	3.99						
	57 (13.9)	33.03	33.03	2.28	31.46	31.46	2.55	29.87	29.87	2.84	28.21	28.21	3.16	26.44	26.44	3.54	24.54	24.54	3.99						
1350	72 (22.2)	42.31	23.19	2.40	39.77	22.15	2.67	37.22	21.12	2.96	34.61	20.08	3.28	31.87	19.00	3.65	29.03	17.91	4.09						
	67 (19.4)	37.99	29.05	2.36	35.73	27.96	2.63	33.47	26.88	2.92	31.15	25.77	3.24	28.72	24.62	3.61	26.19	23.41	4.05						
	63 (17.2)††	34.94	27.70	2.34	32.87	26.63	2.61	30.80	25.58	2.89	28.69	24.49	3.21	26.47	23.37	3.58	24.16	22.17	4.03						
	62 (16.7)	34.52	34.22	2.34	32.84	32.10	2.61	30.87	30.87	2.89	29.10	29.10	3.21	27.23	27.23	3.59	25.22	25.22	4.04						
	57 (13.9)	34.18	34.18	2.33	32.52	32.52	2.60	30.83	30.83	2.89	29.07	29.07	3.21	27.20	27.20	3.59	25.20	25.20	4.04						
25HCE436-L30 Outdoor Section With FB4CNP036L Indoor Section																									
1050	72 (22.2)	39.92	21.53	2.35	37.87	20.72	2.59	35.6	19.83	2.85	33.14	18.88	3.14	30.5	17.87	3.47	27.74	16.84	3.87						
	67 (19.4)	36.37	26.58	2.31	34.54	25.77	2.56	32.51	24.89	2.82	30.29	23.94	3.11	27.91	22.93	3.45	25.42	21.88	3.85						
	63 (17.2)††	33.75	25.57	2.28	32.08	24.78	2.54	30.22	23.92	2.8	28.19	22.98	3.1	26	21.98	3.43	23.71	20.93	3.84						
	62 (16.7)	33.15	31.42	2.28	31.56	30.58	2.53	29.78	29.63	2.8	27.87	28.53	3.09	25.93	25.93	3.43	24.03	24.03	3.84						
	57 (13.9)	31.95	31.95	2.27	30.69	30.69	2.53	29.25	29.25	2.8	27.66	27.66	3.09	25.9	25.9	3.43	24	24	3.84						
1200	72 (22.2)	40.64	22.55	2.4	38.48	21.72	2.65	36.11	20.81	2.9	33.55	19.84	3.19	30.81	18.82	3.52	27.97	17.78	3.91						
	67 (19.4)	37.05	28.24	2.36	35.13	27.42	2.61	33	26.51	2.87	30.69	25.53	3.16	28.23	24.48	3.49	25.66	23.38	3.89						
	63 (17.2)††	34.42	27.14	2.33	32.67	26.32	2.59	30.71	25.42	2.85	28.59	24.45	3.14	26.33	23.41	3.48	23.96	22.31	3.88						
	62 (16.7)	33.89	33.54	2.33	32.24	32.6	2.58	30.47	31.31	2.85	28.6	28.6	3.14	26.72	26.72	3.48	24.69	24.69	3.89						
	57 (13.9)	33.2	33.2	2.32	31.84	31.84	2.58	30.29	30.29	2.85	28.57	28.57	3.14	26.69	26.69	3.48	24.67	24.67	3.89						
1350	72 (22.2)	41.17	23.51	2.45	38.93	22.66	2.7	36.48	21.74	2.95	33.84	20.76	3.23	31.03	19.73	3.56	28.11	18.67	3.96						
	67 (19.4)	37.56	29.84	2.41	35.56	28.98	2.66	33.36	28.05	2.92	30.99	27.03	3.2	28.46	25.94	3.54	25.84	24.76	3.94						
	63 (17.2)††	34.92	28.6	2.38	33.1	27.77	2.63	31.07	26.84	2.9	28.89	25.83	3.19	26.57	24.74	3.52	24.15	23.56	3.93						
	62 (16.7)	34.53	35.37	2.38	32.86	32.86	2.63	31.17	31.17	2.9	29.35	29.35	3.19	27.35	27.35	3.53	25.22	25.22	3.93						
	57 (13.9)	34.24	34.24	2.38	32.79	32.79	2.63	31.14	31.14	2.9	29.32	29.32	3.19	27.33	27.33	3.53	25.2	25.2	3.93						
25HCE436-51, 61 Outdoor Section With FB4CNP036L Indoor Section																									
1050	72 (22.2)	39.66	19.74	2.31	37.83	19.07	2.57	35.94	18.39	2.85	33.94	17.67	3.16	31.84	16.93	3.49	29.62	16.16	3.84						
	67 (19.4)	35.85	24.26	2.28	34.17	23.58	2.54	32.42	22.88	2.82	30.58	22.15	3.12	28.65	21.39	3.46	26.64	20.61	3.81						
	63 (17.2)††	33.11	23.27	2.27	31.53	22.59	2.53	29.89	21.88	2.80	28.15	21.14	3.11	26.35	20.38	3.44	24.46	19.58	3.80						
	62 (16.7)	32.50	28.60	2.27	31.00	27.88	2.52	30.50	24.41	2.82	27.81	26.23	3.10	26.19	26.19	3.43	24.68	24.68	3.80						
	57 (13.9)	31.37	31.37	2.26	30.16	30.16	2.52	28.89	28.89	2.80	27.56	27.56	3.10	26.14	26.14	3.43	24.65	24.65	3.80						
1200	72 (22.2)	40.44	20.71	2.36	38.54	20.03	2.62	36.56	19.32	2.90	34.49	18.60	3.21	32.30	17.84	3.54	30.01	17.05	3.89						
	67 (19.4)	36.57	25.81	2.33	34.82	25.10	2.59	33.00	24.40	2.87	31.10	23.65	3.17	29.10	22.87	3.50	27.02	22.05	3.86						
	63 (17.2)††	33.79	24.71	2.32	32.16	24.02	2.57	30.43	23.29	2.85	28.65	22.53	3.15	26.77	21.74	3.48	24.83	20.91	3.84						
	62 (16.7)	33.27	30.56	2.31	31.74	29.74	2.57	30.10	30.10	2.85	28.63	28.63	3.15	27.13	27.13	3.48	25.54	25.54	3.85						
	57 (13.9)	32.63	32.63	2.31	31.36	31.36	2.57	30.01	30.01	2.85	28.59	28.59	3.15	27.09	27.09	3.48	25.51	25.51	3.85						
1350	72 (22.2)	41.05	21.62	2.40	39.08	20.92	2.67	37.03	20.21	2.95	34.89	19.47	3.26	32.64	18.70	3.58	30.29	17.91	3.93						
	67 (19.4)	37.13	27.29	2.38	35.32	26.58	2.64	33.44	25.84	2.92	31.48	25.07	3.22	29.43	24.25	3.55	27.31	23.39	3.90						
	63 (17.2)††	34.33	26.09	2.36	32.62	25.37	2.62	30.86	24.62	2.89	28.85	23.76	3.18	27.10	23.00	3.53	25.12	22.13	3.88						
	62 (16.7)	34.11	31.77	2.36	32.43	32.43	2.62	30.99	30.99	2.90	29.49	29.49	3.20	27.91	27.91	3.53	26.25	26.25	3.89						
	57 (13.9)	33.70	33.70	2.36	32.36	32.36	2.62	30.95	30.95	2.90	29.46	29.46	3.20	27.88	27.88	3.53	26.22	26.22	3.89						

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Detailed Cooling Capacities# continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)		95 (35)			105 (40.6)			115 (46.1)			125 (51.7)			
		Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**
CFM	EWB °F (°C)	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
25HCE442-30 Outdoor Section With FB4CNP042L Indoor Section																			
1225	72 (22.2)	51.32	26.41	2.69	47.64	24.87	3.06	43.91	23.32	3.47	40.04	21.72	3.95	35.98	20.06	4.53	31.71	18.34	5.24
	67 (19.4)	46.76	32.42	2.71	43.39	30.71	3.08	40.00	29.00	3.48	36.47	27.23	3.95	32.76	25.39	4.53	28.86	23.47	5.26
	63 (17.2)††	43.44	31.24	2.73	40.29	29.56	3.09	37.15	27.88	3.48	33.87	26.14	3.95	30.42	24.33	4.54	26.78	22.44	5.27
	62 (16.7)	42.63	38.26	2.73	39.57	36.35	3.09	36.51	34.43	3.48	33.36	32.42	3.95	30.05	30.05	4.53	26.91	26.91	5.27
	57 (13.9)	40.97	40.97	2.74	38.33	38.33	3.09	35.68	35.68	3.48	32.92	32.92	3.95	29.99	29.99	4.53	26.87	26.87	5.27
1400	72 (22.2)	52.31	27.67	2.71	48.51	26.09	3.09	44.64	24.49	3.51	40.66	22.84	3.99	36.46	21.13	4.56	32.09	19.36	5.28
	67 (19.4)	47.68	34.47	2.74	44.22	32.69	3.11	40.70	30.90	3.51	37.05	29.05	3.99	33.23	27.13	4.57	29.23	25.13	5.29
	63 (17.2)††	44.34	33.15	2.76	41.10	31.40	3.12	37.83	29.64	3.52	34.45	27.84	3.99	30.89	25.94	4.57	27.16	23.97	5.31
	62 (16.7)	43.61	40.95	2.76	40.48	38.90	3.12	37.36	36.78	3.52	34.21	34.21	3.99	31.10	31.10	4.57	27.81	27.81	5.30
	57 (13.9)	42.67	42.67	2.77	39.89	39.89	3.12	37.09	37.09	3.52	34.16	34.16	3.99	31.06	31.06	4.57	27.78	27.78	5.30
1575	72 (22.2)	53.05	28.87	2.74	49.15	27.24	3.13	45.20	25.59	3.54	41.11	23.89	4.02	36.82	22.15	4.60	32.36	20.33	5.31
	67 (19.4)	48.40	36.42	2.77	44.82	34.56	3.14	41.22	32.70	3.55	37.49	30.78	4.03	33.59	28.77	4.61	29.52	26.67	5.33
	63 (17.2)††	45.03	34.96	2.79	41.70	33.15	3.15	38.36	31.32	3.55	34.88	29.43	4.03	31.25	27.46	4.61	27.45	25.38	5.34
	62 (16.7)	44.48	43.33	2.79	41.27	41.27	3.15	38.30	38.30	3.55	35.22	35.22	4.02	31.98	31.98	4.61	28.55	28.55	5.34
	57 (13.9)	44.09	44.09	2.79	41.18	41.18	3.15	38.25	38.25	3.55	35.18	35.18	4.02	31.95	31.95	4.61	28.52	28.52	5.34
25HCE442L-30 Outdoor Section With FB4CNP042L Indoor Section																			
1225	72 (22.2)	48.32	25.52	2.80	45.97	24.62	3.14	43.50	23.67	3.49	40.85	22.67	3.89	38.04	21.61	4.35	35.05	20.52	4.89
	67 (19.4)	44.42	31.59	2.81	42.27	30.66	3.13	40.00	29.70	3.48	37.57	28.68	3.87	34.98	27.61	4.33	32.22	26.48	4.89
	63 (17.2)††	41.49	30.54	2.81	39.49	29.61	3.13	37.38	28.65	3.47	35.12	27.63	3.86	32.69	26.54	4.33	30.11	25.39	4.89
	62 (16.7)	40.75	37.42	2.81	38.82	36.45	3.12	36.78	35.43	3.46	34.64	34.29	3.85	32.59	32.26	4.32	30.26	30.26	4.89
	57 (13.9)	39.25	39.25	2.81	37.71	37.71	3.12	36.06	36.06	3.46	34.28	34.28	3.85	32.34	32.34	4.32	30.22	30.22	4.89
1400	72 (22.2)	49.10	26.71	2.84	46.65	25.79	3.18	44.08	24.83	3.53	41.35	23.82	3.93	38.44	22.75	4.38	35.37	21.65	4.92
	67 (19.4)	45.20	33.55	2.84	42.96	32.61	3.17	40.60	31.63	3.52	38.08	30.59	3.91	35.40	29.49	4.37	32.58	28.32	4.93
	63 (17.2)††	42.29	32.38	2.85	40.20	31.44	3.17	37.99	30.45	3.51	35.66	29.40	3.90	33.14	28.29	4.36	30.48	27.10	4.93
	62 (16.7)	41.64	40.02	2.85	39.64	38.96	3.16	38.03	36.15	3.50	35.73	35.37	3.90	33.44	33.44	4.37	31.19	31.19	4.93
	57 (13.9)	40.81	40.81	2.85	39.15	39.15	3.16	37.38	37.38	3.50	35.47	35.47	3.89	33.40	33.40	4.36	31.16	31.16	4.93
1575	72 (22.2)	49.67	27.84	2.87	47.15	26.91	3.22	44.51	25.93	3.57	41.70	24.91	3.97	38.72	23.84	4.42	35.58	22.72	4.96
	67 (19.4)	45.78	35.42	2.88	43.46	34.46	3.21	41.03	33.46	3.56	38.40	32.37	3.95	35.71	31.25	4.41	32.83	30.04	4.96
	63 (17.2)††	42.89	34.12	2.88	40.72	33.16	3.20	38.45	32.15	3.55	36.05	31.08	3.94	33.48	29.92	4.40	30.78	28.68	4.97
	62 (16.7)	42.39	42.30	2.88	40.61	40.23	3.20	38.75	38.22	3.55	36.48	36.48	3.94	34.29	34.29	4.41	31.93	31.93	4.96
	57 (13.9)	42.08	42.08	2.88	40.32	40.32	3.20	38.45	38.45	3.54	36.44	36.44	3.94	34.25	34.25	4.41	31.90	31.90	4.96

Detailed Cooling Capacities[#] continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)		95 (35)		105 (40.6)		115 (46.1)		125 (51.7)						
		Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**	Capacity MBtuh		Total Syst. KW**
CFM	EWB °F (°C)	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
25HCE448-30, 50, 60 Outdoor Section With FB4CNP048L Indoor Section																			
1400	72 (22.2)	56.85	29.73	3.01	53.80	28.52	3.49	50.55	27.25	4.03	46.99	25.86	4.63	43.14	24.39	5.33	38.94	22.80	6.14
	67 (19.4)	51.69	36.52	3.00	48.93	35.26	3.48	46.00	33.93	4.00	42.80	32.52	4.60	39.31	30.98	5.30	35.51	29.32	6.12
	63 (17.2)††	47.92	35.13	2.99	45.36	33.89	3.46	42.67	32.59	3.98	39.72	31.19	4.57	36.51	29.68	5.27	32.99	28.03	6.10
	62 (16.7)	47.01	43.08	2.99	44.55	41.74	3.46	41.94	40.30	3.97	39.15	38.71	4.57	36.14	36.14	5.27	33.20	33.20	6.10
	57 (13.9)	45.21	45.21	2.99	43.19	43.19	3.45	41.05	41.05	3.97	38.69	38.69	4.57	36.07	36.07	5.27	33.16	33.16	6.10
1600	72 (22.2)	57.93	31.13	3.06	54.75	29.89	3.55	51.35	28.58	4.08	47.67	27.17	4.69	43.67	25.65	5.39	39.35	24.03	6.20
	67 (19.4)	52.70	38.79	3.05	49.84	37.50	3.53	46.77	36.12	4.06	43.44	34.65	4.66	39.83	33.06	5.36	35.91	31.33	6.18
	63 (17.2)††	48.90	37.25	3.04	46.25	35.98	3.51	43.42	34.62	4.03	40.37	33.18	4.63	37.04	31.61	5.33	33.41	29.89	6.16
	62 (16.7)	48.09	46.04	3.04	45.55	44.58	3.51	42.90	42.95	4.03	40.14	40.14	4.63	37.35	37.35	5.34	34.25	34.25	6.17
	57 (13.9)	47.05	47.05	3.04	44.90	44.90	3.51	42.61	42.61	4.03	40.09	40.09	4.63	37.30	37.30	5.34	34.22	34.22	6.17
1800	72 (22.2)	58.79	32.49	3.10	55.49	31.21	3.60	52.00	29.88	4.13	48.19	28.44	4.74	44.08	26.89	5.44	39.65	25.25	6.26
	67 (19.4)	53.52	41.02	3.10	50.54	39.67	3.58	47.37	38.24	4.11	43.95	36.73	4.72	40.23	35.06	5.42	36.23	33.24	6.24
	63 (17.2)††	49.69	39.32	3.09	46.93	38.00	3.56	44.02	36.59	4.09	40.87	35.10	4.69	37.45	33.46	5.39	33.74	31.64	6.22
	62 (16.7)	49.05	48.68	3.09	46.45	46.45	3.56	43.96	43.96	4.09	41.29	41.29	4.69	38.36	38.36	5.40	35.09	35.09	6.23
	57 (13.9)	48.59	48.59	3.09	46.33	46.33	3.56	43.91	43.91	4.09	41.25	41.25	4.69	38.32	38.32	5.40	35.06	35.06	6.23
25HCE460-30, 50, 60 Outdoor Section With FX4DN(B,F)061L Indoor Section																			
1750	72 (22.2)	69.71	36.22	3.67	66.16	34.89	4.27	62.51	33.53	4.99	58.68	32.11	5.83	54.60	30.60	6.84	50.26	29.01	8.03
	67 (19.4)	63.53	44.80	3.64	60.33	43.43	4.24	57.00	42.02	4.96	53.50	40.54	5.80	49.79	38.98	6.80	45.77	37.30	7.99
	63 (17.2)††	59.03	43.14	3.62	56.06	41.79	4.22	52.97	40.38	4.93	49.73	38.91	5.78	46.26	37.35	6.78	42.53	35.68	7.96
	62 (16.7)	57.95	53.13	3.62	55.06	51.68	4.22	52.11	50.15	4.93	49.00	48.47	5.77	45.84	45.84	6.77	42.75	42.75	7.96
	57 (13.9)	56.08	56.08	3.61	53.71	53.71	4.22	51.24	51.24	4.92	48.62	48.62	5.77	45.78	45.78	6.77	42.69	42.69	7.96
2000	72 (22.2)	70.94	37.98	3.74	67.26	36.62	4.35	63.47	35.23	5.06	59.50	33.78	5.91	55.29	32.23	6.92	50.82	30.62	8.11
	67 (19.4)	64.73	47.70	3.71	61.36	46.27	4.32	57.91	44.83	5.03	54.29	43.30	5.88	50.43	41.67	6.89	46.33	39.96	8.08
	63 (17.2)††	60.18	45.83	3.69	57.08	44.43	4.30	53.88	42.99	5.01	50.51	41.48	5.86	46.93	39.86	6.86	43.09	38.13	8.05
	62 (16.7)	59.24	56.92	3.69	56.27	55.28	4.29	53.28	53.28	5.01	50.44	50.44	5.86	47.43	47.43	6.86	44.15	44.15	8.06
	57 (13.9)	58.35	58.35	3.68	55.83	55.83	4.29	53.18	53.18	5.01	50.38	50.38	5.86	47.36	47.36	6.86	44.10	44.10	8.06
2250	72 (22.2)	71.87	39.65	3.81	68.08	38.26	4.42	64.17	36.84	5.14	60.10	35.37	5.99	55.78	33.79	7.00	51.19	32.15	8.20
	67 (19.4)	65.60	50.45	3.78	62.14	48.99	4.39	58.58	47.50	5.11	54.86	45.93	5.96	50.94	44.26	6.97	46.73	42.44	8.16
	63 (17.2)††	61.04	48.39	3.76	57.85	46.95	4.37	54.53	45.45	5.09	51.08	43.89	5.94	47.42	42.22	6.95	43.49	40.40	8.14
	62 (16.7)	60.36	60.36	3.76	57.65	57.65	4.37	54.85	54.85	5.09	51.89	51.89	5.94	48.73	48.73	6.96	45.28	45.28	8.15
	57 (13.9)	60.24	60.24	3.76	57.57	57.57	4.37	54.78	54.78	5.09	51.83	51.83	5.94	48.66	48.66	6.95	45.23	45.23	8.15

[#]Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

‡Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree below 80°F (27°C), or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).

**Total System, kw is total of indoor and outdoor unit kilowatts.

††At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F edb.

NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

EWB — Entering Wet Bulb1

Heat Pump Heating Performance

Section VII. Item #1.

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
EDB	CFM	-3 (19.4)			7 (-13.9)			17 (-8.3)			27 (-2.8)			37 (2.8)			47 (8.3)			57 (13.9)			67 (19.4)		
		Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*	
25HCE418-30 Outdoor Section With FB4CNP018L Indoor Section																									
65 (18.3)	525	5.99	5.51	1.15	8.26	7.59	1.19	10.57	9.64	1.22	13.16	11.68	1.26	15.35	13.97	1.30	17.67	17.67	1.35	20.14	20.14	1.42	22.47	22.47	1.47
	600	6.10	5.62	1.15	8.39	7.71	1.18	10.74	9.79	1.21	13.32	11.83	1.25	15.55	14.15	1.28	17.93	17.93	1.32	20.47	20.47	1.38	22.59	22.59	1.42
	675	6.20	5.70	1.16	8.49	7.80	1.18	10.89	9.93	1.21	13.46	11.95	1.24	15.72	14.30	1.26	18.12	18.12	1.30	20.66	20.66	1.34	22.59	22.59	1.38
70 (21.1)	525	5.67	5.22	1.20	7.93	7.28	1.24	10.23	9.33	1.28	12.87	11.43	1.33	15.06	13.70	1.37	17.34	17.34	1.42	19.76	19.76	1.49	22.14	22.14	1.55
	600	5.78	5.32	1.20	8.06	7.41	1.24	10.40	9.48	1.27	13.05	11.59	1.31	15.26	13.88	1.34	17.60	17.60	1.39	20.09	20.09	1.45	22.30	22.30	1.49
	675	5.87	5.40	1.21	8.18	7.51	1.24	10.54	9.61	1.27	13.19	11.72	1.30	15.43	14.04	1.32	17.81	17.81	1.37	20.33	20.33	1.41	22.33	22.33	1.45
75 (23.9)	525	5.29	4.87	1.25	7.57	6.95	1.30	9.87	9.00	1.34	12.57	11.16	1.39	14.77	13.44	1.43	17.02	17.02	1.49	19.39	19.39	1.56	21.80	21.80	1.62
	600	5.40	4.97	1.26	7.70	7.08	1.29	10.04	9.16	1.33	12.75	11.32	1.37	14.97	13.62	1.41	17.27	17.27	1.45	19.70	19.70	1.52	21.99	21.99	1.56
	675	5.51	5.07	1.27	7.82	7.19	1.30	10.18	9.28	1.33	12.90	11.46	1.36	15.14	13.78	1.39	17.47	17.47	1.43	19.96	19.96	1.49	22.06	22.06	1.52
25HCE424-30 Outdoor Section With FB4CNP030L Indoor Section																									
65 (18.3)	700	8.29	7.62	1.37	10.72	9.85	1.41	13.41	12.23	1.46	16.45	14.61	1.53	19.28	17.54	1.58	22.32	22.32	1.65	25.61	25.61	1.71	28.37	28.37	1.77
	800	8.42	7.75	1.37	10.88	10.00	1.42	13.64	12.43	1.46	16.64	14.77	1.51	19.50	17.74	1.56	22.57	22.57	1.62	25.83	25.83	1.67	28.66	28.66	1.72
	900	8.54	7.86	1.38	11.02	10.13	1.42	13.81	12.59	1.46	16.80	14.92	1.50	19.69	17.92	1.55	22.80	22.80	1.60	25.95	25.95	1.64	28.64	28.64	1.69
70 (21.1)	700	7.86	7.23	1.42	10.31	9.48	1.47	13.00	11.86	1.53	16.17	14.36	1.60	18.96	17.25	1.66	21.92	21.92	1.73	25.22	25.22	1.80	28.24	28.24	1.86
	800	8.00	7.36	1.43	10.47	9.62	1.48	13.20	12.04	1.52	16.35	14.52	1.58	19.18	17.46	1.64	22.20	22.20	1.69	25.48	25.48	1.75	28.34	28.34	1.81
	900	8.12	7.47	1.44	10.62	9.76	1.48	13.36	12.18	1.52	16.50	14.65	1.58	19.36	17.62	1.62	22.42	22.42	1.67	25.64	25.64	1.72	28.35	28.35	1.77
75 (23.9)	700	7.43	6.84	1.48	9.90	9.10	1.54	12.60	11.49	1.60	15.87	14.10	1.68	18.65	16.97	1.74	21.63	21.63	1.81	24.81	24.81	1.88	27.89	27.89	1.95
	800	7.56	6.96	1.49	10.06	9.25	1.54	12.79	11.66	1.59	16.06	14.27	1.66	18.86	17.16	1.71	21.87	21.87	1.78	25.11	25.11	1.84	28.00	28.00	1.90
	900	7.68	7.07	1.50	10.20	9.37	1.54	12.95	11.80	1.59	16.22	14.40	1.65	19.04	17.32	1.70	22.06	22.06	1.76	25.29	25.29	1.81	28.05	28.05	1.86
25HCE430-30 Outdoor Section With FB4CNP030L Indoor Section																									
65 (18.3)	875	10.53	9.68	1.83	13.53	12.44	1.89	17.14	15.63	1.97	20.47	18.18	2.05	24.29	22.11	2.15	28.57	28.57	2.26	33.43	33.43	2.39	37.94	37.94	2.49
	1050	10.79	9.93	1.84	13.85	12.73	1.90	17.42	15.89	1.97	20.82	18.49	2.04	24.72	22.50	2.12	29.10	29.10	2.22	33.85	33.85	2.33	37.92	37.92	2.41
	1125	10.89	10.02	1.85	13.97	12.83	1.91	17.52	15.98	1.97	20.94	18.60	2.03	24.87	22.64	2.12	29.28	29.28	2.22	33.90	33.90	2.31	37.82	37.82	2.39
70 (21.1)	875	10.06	9.26	1.90	13.08	12.02	1.97	16.80	15.32	2.06	20.12	17.87	2.14	23.88	21.73	2.24	28.09	28.09	2.35	32.89	32.89	2.49	37.51	37.51	2.60
	1050	10.32	9.50	1.92	13.38	12.29	1.98	17.10	15.59	2.05	20.45	18.17	2.12	24.30	22.11	2.21	28.60	28.60	2.31	33.43	33.43	2.43	37.54	37.54	2.52
	1125	10.42	9.59	1.93	13.49	12.40	1.99	17.21	15.69	2.06	20.58	18.28	2.12	24.45	22.25	2.21	28.79	28.79	2.31	33.54	33.54	2.41	0.00	0.00	0.00
75 (23.9)	875	9.59	8.82	1.98	12.62	11.60	2.05	16.06	14.65	2.13	19.77	17.56	2.23	23.47	21.36	2.33	27.62	27.62	2.45	32.35	32.35	2.59	37.03	37.03	2.71
	1050	9.84	9.05	2.00	12.92	11.87	2.06	16.74	15.27	2.14	20.10	17.85	2.22	23.88	21.73	2.30	28.11	28.11	2.41	32.94	32.94	2.53	37.13	37.13	2.63
	1125	9.94	9.14	2.01	13.03	11.97	2.07	16.86	15.37	2.14	20.22	17.96	2.21	24.03	21.87	2.30	28.30	28.30	2.40	33.10	33.10	2.51	37.10	37.10	2.60
25HCE436-31 Outdoor Section With FB4CNP036L Indoor Section																									
65 (18.3)	1050	12.69	11.67	2.19	16.96	15.58	2.31	21.07	19.21	2.39	25.72	22.84	2.49	29.58	26.91	2.56	33.94	33.94	2.65	38.88	38.88	2.79	45.00	45.00	3.00
	1200	12.94	11.90	2.22	17.30	15.89	2.32	21.41	19.52	2.40	26.04	23.12	2.49	29.94	27.25	2.54	34.56	34.56	2.63	39.50	39.50	2.75	45.85	45.85	2.95
	1350	13.19	12.14	2.25	17.58	16.15	2.35	21.72	19.81	2.41	26.33	23.39	2.49	30.26	27.54	2.54	34.73	34.73	2.61	40.03	40.03	2.73	46.52	46.52	2.92
70 (21.1)	1050	11.93	10.97	2.28	16.33	15.00	2.40	20.46	18.65	2.49	25.27	22.44	2.60	29.12	26.50	2.67	33.35	33.35	2.77	38.21	38.21	2.90	44.19	44.19	3.11
	1200	12.23	11.25	2.31	16.63	15.29	2.42	20.80	18.96	2.50	25.61	22.75	2.59	29.49	26.84	2.65	33.80	33.80	2.74	38.82	38.82	2.86	44.99	44.99	3.06
	1350	12.48	11.48	2.34	16.91	15.54	2.44	21.11	19.24	2.51	25.90	23.00	2.60	29.81	27.13	2.65	34.19	34.19	2.72	39.32	39.32	2.84	45.65	45.65	3.03
75 (23.9)	1050	11.21	10.32	2.37	15.66	14.39	2.49	19.83	18.08	2.59	24.11	21.42	2.68	28.71	26.12	2.79	32.84	32.84	2.88	37.57	37.57	3.02	43.38	43.38	3.23
	1200	11.47	10.55	2.40	15.96	14.67	2.51	20.18	18.40	2.60	24.64	21.88	2.68	29.04	26.43	2.77	33.28	33.28	2.85	38.15	38.15	2.98	44.15	44.15	3.17
	1350	11.71	10.77	2.43	16.23	14.92	2.54	20.48	18.68	2.61	25.43	22.59	2.71	29.35	26.71	2.76	33.65	33.65	2.84	38.63	38.63	2.95	44.79	44.79	3.14
25HCE436-L30 Outdoor Section With FB4CNP036L Indoor Section																									
65 (18.3)	1050	12.43	11.44	2.10	16.18	14.86	2.21	20.27	18.48	2.30	25.19	22.37	2.41	29.36	26.72	2.50	33.89	33.89	2.60	38.89	38.89	2.73	44.47	44.47	2.88
	1200	12.67	11.66	2.13	16.44	15.10	2.22	20.57	18.76	2.30	25.50	22.65	2.40	29.76	27.08	2.48	34.39	34.39	2.57	39.57	39.57	2.69	45.13	45.13	2.82
	1350	12.89	11.86	2.15	16.70	15.35	2.24	20.88	19.04	2.32	25.77	22.89	2.41	30.09	27.38	2.47	34.88	34.88	2.56	40.12	40.12	2.67	45.55	45.55	2.78
70 (21.1)	1050	11.85	10.90	2.19	15.60	14.34	2.30	19.69	17.95	2.40	24.71	21.95	2.52	28.87	26.27	2.61	33.31	33.31	2.71	38.15	38.15	2.84	43.64	43.64	2.99
	1200	12.09	11.13	2.22	15.89	14.61	2.32	20.00	18.24	2.40	25.07	22.26	2.51	29.26	26.63	2.59	33.80	33.80	2.68	38.81	38.81	2.80	44.35	44.35	2.93
	1350	12.34	11.36	2.25	16.15	14.84	2.34	20.32	18.53	2.42	25.36	22.53	2.52	29.61	26.94	2.58	34.22	34.22	2.66	39.35	39.35	2.78	44.43	44.43	2.88
75 (23.9)	1050	11.19	10.30	2.28	14.98	13.77	2.39	19.06	17.38	2.49	23.52	20.89	2.60	28.38	25.83	2.72	32.72	32.72	2.82	37.42	37.42	2.95	42.82	42.82	3.11
	1200	11.44	10.53	2.30	15.27	14.03	2.41	19.41	17.70	2.50	24.04	21.35	2.60	28.76	26.17	2.70	33.21	33.21	2.79	38.06	38.06	2.91	43.38	43.38	3.03
	1350	11.67	10.73	2.33	15.53	14.27	2.43	19.68																	

Heat Pump Heating Performance continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F (°C)																							
		-3 (19.4)		7 (-13.9)		17 (-8.3)		27 (-2.8)		37 (2.8)		47 (8.3)		57 (13.9)		67 (19.4)									
EDB	CFM	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†	Capacity MBtuh		Total Syst. KW†			
		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*		Total	Integ*							
25HCE442-30 Outdoor Section With FB4CNP042L Indoor Section																									
65 (18.3)	1225	16.83	15.48	2.68	21.19	19.47	2.76	26.01	23.72	2.85	31.22	27.73	2.96	36.23	32.97	3.06	41.58	41.58	3.18	47.26	47.26	3.29	51.99	51.99	3.36
	1400	17.17	15.80	2.70	21.57	19.82	2.76	26.98	24.60	2.86	31.57	28.03	2.94	36.63	33.33	3.03	42.10	42.10	3.14	47.44	47.44	3.20	51.82	51.82	3.26
	1575	17.47	16.07	2.72	21.88	20.11	2.77	27.28	24.88	2.86	31.89	28.33	2.93	36.97	33.64	3.01	42.45	42.45	3.10	47.42	47.42	3.15	51.55	51.55	3.20
70 (21.1)	1225	15.95	14.68	2.79	20.41	18.76	2.86	25.20	22.98	2.95	30.75	27.31	3.08	35.75	32.53	3.19	41.00	41.00	3.32	46.67	46.67	3.43	51.41	51.41	3.51
	1400	16.27	14.97	2.80	20.76	19.08	2.87	25.60	23.34	2.95	31.08	27.61	3.06	36.11	32.86	3.15	41.49	41.49	3.27	46.95	46.95	3.35	51.31	51.31	3.40
	1575	16.54	15.22	2.82	21.07	19.36	2.88	25.96	23.67	2.95	31.38	27.87	3.05	36.45	33.17	3.14	41.91	41.91	3.24	47.00	47.00	3.29	51.07	51.07	3.34
75 (23.9)	1225	15.11	13.90	2.89	19.67	18.08	2.98	24.49	22.33	3.07	30.28	26.90	3.21	35.25	32.07	3.33	40.41	40.41	3.47	46.09	46.09	3.58	50.81	50.81	3.67
	1400	15.40	14.17	2.91	20.00	18.37	2.98	24.87	22.67	3.06	30.62	27.20	3.19	35.63	32.42	3.29	40.89	40.89	3.41	46.39	46.39	3.50	50.77	50.77	3.56
	1575	15.65	14.40	2.93	20.28	18.64	2.99	25.19	22.97	3.07	30.90	27.44	3.17	35.95	32.71	3.27	41.30	41.30	3.38	46.51	46.51	3.44	50.58	50.58	3.49
25HCE442-L30 Outdoor Section With FB4CNP042L Indoor Section																									
65 (18.3)	1225	16.15	14.86	2.54	20.31	18.67	2.64	25.22	23.00	2.76	30.64	27.21	2.90	35.95	32.71	3.04	40.44	40.44	3.13	44.41	44.41	3.23	47.39	47.39	3.31
	1400	16.46	15.14	2.56	20.66	18.98	2.65	25.87	23.59	2.76	31.04	27.57	2.88	36.20	32.94	3.00	40.37	40.37	3.07	44.11	44.11	3.15	47.26	47.26	3.22
	1575	16.72	15.39	2.58	20.96	19.26	2.66	26.48	24.14	2.77	31.39	27.88	2.87	36.48	33.20	2.97	40.23	40.23	3.04	43.70	43.70	3.10	46.51	46.51	3.15
70 (21.1)	1225	15.37	14.14	2.63	19.56	17.98	2.74	24.40	22.25	2.86	30.11	26.75	3.02	35.36	32.18	3.17	40.00	40.00	3.27	43.97	43.97	3.38	47.28	47.28	3.47
	1400	15.67	14.41	2.65	19.91	18.30	2.75	24.81	22.62	2.86	30.49	27.08	3.00	35.82	32.60	3.13	39.99	39.99	3.21	43.75	43.75	3.30	46.90	46.90	3.37
	1575	15.93	14.65	2.67	20.21	18.57	2.76	25.18	22.95	2.86	30.82	27.37	2.99	36.06	32.81	3.10	39.90	39.90	3.17	43.44	43.44	3.24	46.31	46.31	3.30
75 (23.9)	1225	14.54	13.38	2.73	18.78	17.26	2.85	23.63	21.55	2.97	29.57	26.26	3.15	34.76	31.64	3.31	39.55	39.55	3.43	43.46	43.46	3.54	46.75	46.75	3.62
	1400	14.83	13.65	2.74	19.13	17.58	2.85	24.03	21.91	2.97	29.94	26.59	3.12	35.22	32.05	3.27	39.59	39.59	3.36	43.35	43.35	3.45	46.40	46.40	3.52
	1575	15.09	13.88	2.76	19.42	17.85	2.86	24.37	22.22	2.97	30.27	26.88	3.11	35.50	32.31	3.24	39.54	39.54	3.31	43.11	43.11	3.39	46.01	46.01	3.46
25HCE448-30, 50, 60 Outdoor Section With FB4CNP048L Indoor Section																									
65 (18.3)	1400	18.06	16.61	2.84	23.23	21.35	2.95	28.62	26.10	3.07	35.13	31.20	3.23	40.37	36.74	3.36	46.19	46.19	3.52	52.96	52.96	3.69	60.25	60.25	3.85
	1600	18.43	16.96	2.87	23.65	21.73	2.97	29.08	26.52	3.08	35.52	31.54	3.22	40.85	37.18	3.34	46.77	46.77	3.48	53.78	53.78	3.63	60.78	60.78	3.78
	1800	18.77	17.27	2.90	24.02	22.07	3.00	29.49	26.89	3.09	35.88	31.87	3.23	41.25	37.54	3.34	47.27	47.27	3.46	54.35	54.35	3.60	61.14	61.14	3.73
70 (21.1)	1400	17.10	15.73	2.94	22.37	20.56	3.06	27.80	25.35	3.18	34.45	30.60	3.35	39.83	36.24	3.50	45.50	45.50	3.66	52.11	52.11	3.85	59.42	59.42	4.01
	1600	17.45	16.06	2.97	22.77	20.92	3.08	28.25	25.76	3.19	34.96	31.05	3.35	40.26	36.64	3.48	46.07	46.07	3.62	52.88	52.88	3.78	59.97	59.97	3.93
	1800	17.72	16.30	3.00	23.10	21.23	3.10	28.64	26.12	3.21	35.34	31.39	3.35	40.64	36.99	3.47	46.55	46.55	3.60	53.57	53.57	3.75	60.35	60.35	3.88
85 (29.4)	1400	14.48	13.33	3.29	19.88	18.27	3.43	25.43	23.18	3.58	31.19	27.70	3.74	38.27	34.83	3.99	43.48	43.48	4.17	49.52	49.52	4.35	56.66	56.66	4.53
	1600	14.77	13.59	3.32	20.23	18.59	3.45	25.83	23.55	3.59	31.68	28.14	3.73	38.67	35.19	3.95	44.00	44.00	4.11	50.28	50.28	4.28	57.31	57.31	4.44
	1800	15.00	13.80	3.35	20.49	18.83	3.47	26.15	23.84	3.60	32.05	28.47	3.74	39.01	35.50	3.93	44.45	44.45	4.08	50.96	50.96	4.23	57.77	57.77	4.38
25HCE460-30, 50, 60 Outdoor Section With FX4DN(B,F)061L Indoor Section																									
65 (18.3)	1750	21.79	20.04	3.35	27.51	25.28	3.48	33.77	30.79	3.62	41.16	36.55	3.80	47.80	43.50	3.96	55.22	55.22	4.13	63.89	63.89	4.31	72.41	72.41	4.49
	2000	22.17	20.40	3.38	27.93	25.67	3.49	34.27	31.24	3.62	41.55	36.90	3.78	48.32	43.97	3.93	55.88	55.88	4.08	64.55	64.55	4.23	72.64	72.64	4.39
	2250	22.52	20.71	3.42	28.30	26.01	3.52	34.70	31.64	3.64	41.91	37.22	3.79	48.78	44.39	3.92	56.46	56.46	4.07	64.91	64.91	4.19	72.49	72.49	4.33
70 (21.1)	1750	21.01	19.33	3.50	26.77	24.60	3.63	33.00	30.09	3.78	40.68	36.13	3.98	47.23	42.98	4.14	54.50	54.50	4.32	63.05	63.05	4.51	71.52	71.52	4.70
	2000	21.38	19.67	3.53	27.19	24.99	3.65	33.48	30.53	3.78	41.09	36.49	3.96	47.73	43.44	4.11	55.15	55.15	4.27	63.75	63.75	4.42	71.80	71.80	4.59
	2250	21.73	19.99	3.57	27.57	25.33	3.68	33.91	30.92	3.80	41.45	36.82	3.97	48.17	43.84	4.10	55.71	55.71	4.25	64.15	64.15	4.37	71.74	71.74	4.52
75 (23.9)	1750	20.18	18.57	3.66	25.98	23.88	3.80	32.21	29.37	3.95	40.16	35.67	4.17	46.66	42.46	4.34	53.80	53.80	4.52	62.20	62.20	4.72	70.62	70.62	4.91
	2000	20.56	18.91	3.69	26.42	24.28	3.82	32.69	29.81	3.95	40.62	36.07	4.15	47.14	42.89	4.30	54.42	54.42	4.46	62.94	62.94	4.62	70.93	70.93	4.80
	2250	20.90	19.23	3.73	26.79	24.62	3.85	33.11	30.19	3.97	40.99	36.40	4.15	47.57	43.29	4.29	54.97	54.97	4.44	63.39	63.39	4.57	70.94	70.94	4.72

NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

* The Btuh heating capacity values shown are net integrated values from which the defrost effect has been subtracted. The Btuh heating from supplement heaters should be added to those values to obtain total Sys. capacity.

† The kW values include the compressor, outdoor fan motor, and indoor blower motor. The kW from supplement heaters should be added to these values to obtain total Sys. kilowatts.

EDB — Entering Dry Bulb2

Guide Specifications General

Air-Cooled, Split System Section VII. Item #1.

25HCE4

1-1/2 to 5 nominal tons

System Description

Outdoor-mounted, air-cooled, split-system heat pump unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 210/240.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor unit is leak tested.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer)

U.S. and Canada only.

PRODUCTS

Equipment

Factory assembled, single piece, air-cooled heat pump unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron® (R-410A), and special features required prior to field start-up.

Unit Cabinet

Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.
Available with dense grille only.

Fans

Condenser fan will be direct-drive propeller type, discharging air upward.
Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings.
Shafts will be corrosion resistant.
Fan blades will be statically and dynamically balanced.
Condenser fan openings will be equipped with steel wire safety guards.

Compressor

Compressor will be hermetically sealed.
Compressor will be mounted on rubber vibration isolators.

Condenser Coil

Condenser coil will be air cooled.
Coil will be constructed of aluminum fins mechanically bonded to copper or aluminum tubes which are then cleaned, dehydrated, and sealed.

Refrigeration Components

Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, POE compressor oil, accumulator, and reversing valve.

Operating Characteristics

The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F/°C. The power consumption at full load will not exceed _____ kW.

Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.

The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.

Unit electrical power will be single point connection.

Control circuit will be 24v.

Special Features

Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

System Design Summary*Section VII. Item #1.*

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature for cooling mode is 125°F (51.7°C).
4. Minimum outdoor operating air temperature for heating mode is –10°F (–23.3°C).
5. Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
6. For reliable operation, unit should be level in all horizontal planes.
7. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or elevation differences between indoor and outdoor units greater than 20 ft (6.1 m), consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
8. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
9. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
10. Do not apply capillary tube indoor coils to these units.
11. Factory-supplied filter drier must be installed.



PLAN REVIEW COMMENTS FOR COFA-03-24-019062

Section VII. Item #1.

Town of Bluffton
 Department of Growth Management
 20 Bridge Street P.O. Box 386 Bluffton, South Carolina 29910
 Telephone 843-706-4522

Plan Type:	Highway Corridor Overlay District	Apply Date:	03/25/2024
Plan Status:	Hold	Plan Address:	315 Gibbet Rd Road BLUFFTON, SC 29910
Case Manager:	Katie Peterson	Plan PIN #:	R610 036 000 0459 0000
Plan Description:	A request by Amsdell Construction, LLC, on behalf of the owners, Amsdell Storage Ventures 81, LLC, for review of a Certificate of Appropriateness-Highway Corridor Overlay application. The project consists of two two-story buildings totaling approximately 109,398 SF of climate-controlled self-storage space, the associated landscaping, lighting and other infrastructure. The properties are zoned Jones Estate PUD, consist of 3.21 acres identified by tax map numbers R610 036 000 0459 0000 and R610 036 000 0458 0000, and are located at the northeast corner of the Caine Drive and Estate Drive intersection, west of Gibbet Road, and fronts on S Hwy 170. Status: The conceptual COFA will be heard at the May 1, 2024 DRC meeting.		

Planning Commission Committee Review

Submission #: 1 Received: 04/02/2024 Completed: 04/25/2024

Reviewing Dept.	Complete Date	Reviewer	Status
Building Safety Review	04/25/2024	Richard Spruce	Revisions Required

Comments:

1. Provide additional information regarding the required detectable warning devices and crosswalk to the ADA spaces for Lot 1.

Growth Management Dept Review (HD)	04/25/2024	Katie Peterson	Revisions Required
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Comments:

1. The southwest side of the building closest to Hwy 170 do not meet the required 8' foundation planting requirement. Revise to meet the required foundation planting minimums. A landscaped buffer at least eight (8') feet wide shall be maintained between any structure and any parking or driving area, except for loading areas and areas where drive-through facilities are utilized. This space is to be reserved for plant material, either existing or planted. No such space is required at the rear of the buildings, but is encouraged. Sidewalks and handicap ramps may be placed adjacent to the buffer on either side. The buffer may be penetrated to provide for access to the building and is not required in loading areas. (ZDSO 90/3 Section 4.24.2.2.B.)
2. Provide additional information on the "side wall" shown on AS1.01 for the location and material finish. Unfinished CMU is not a permitted material.
3. Lights must be full cut-off fixtures. They are currently shown as forward thrown medium fixture. Revise to be full cut-off fixtures and update photometrics accordingly.

Planning Commission Review	04/25/2024	Dan Frazier	Revisions Required
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Comments:

Section VII. Item #1.

4. Provide additional plantings with additional height in areas which may appear unarticulated. Landscape Plan was challenging to read as it appears scanned in. Not all markers are visible.

Stormwater Review	04/23/2024	Samantha Crotty	Revisions Required
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1. In the landscape plan, the western-most bioretention cell is labeled as "Retention Area" which is not accurate. Re-label this BMP as "bioretention".

2. In the landscape plan, remove proposed trees from both the western and northern bioretention cells. Acceptable bioretention plants can be found in Table 4.7 (perennial & grasses) and Table 4.8 (shrubs & bushes) in Chapter 4.3.5 in the Southern Lowcountry Stormwater Design Manual.

Beaufort Jasper Water and Sewer Review	04/25/2024	Matthew Michaels	Approved with Conditions
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Comments may be provided at Development Plan

Addressing Review	04/23/2024	Diego Farias	Approved
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Police Department Review	04/25/2024	Bill Bonhaq	Approved
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1. No comments provided by reviewer.

Transportation Department Review	04/25/2024	Megan James	Approved
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1. No comments provided by reviewer.

Plan Review Case Notes: