



City of Daytona Beach Shores

"Life is Better Here"

"A Premier, Friendly Place to Be"

AGENDA PLANNING & ZONING BOARD MEETING AUGUST 12, 2024

**8:30 AM, Shores Community Center, 3000 Bellemead Drive
Daytona Beach Shores, FL 32118**

Notice is hereby given to all interested parties that if any person should decide to appeal any decision made at the aforementioned meeting of the P&Z Board, such person will need a recording of the proceedings conducted at such meeting, and for such purpose he or she may need to ensure that a verbatim record of the proceedings was made; such record to include testimony and evidence upon which any appeal shall be based. Individuals covered by the Americans with Disabilities Act of 1990 in need of accommodations for this public meeting should contact the City Clerk, City of Daytona Beach Shores, at least five working days prior to the meeting.

1. OPENING REMARKS

2. ACTION ITEMS

A. Nomination of pro tem Chair

3. MINUTES

A. Planning & Zoning Minutes May 13, 2024

4. QUASI-JUDICIAL HEARING

A. Regular Site Plan RSP12023048: SHORES DEPOT - ALL ABOARD STORAGE
Interior Storage Facility, 2616 S. Atlantic Avenue

5. OTHER

A. Discussion about November's regularly scheduled meeting date - November 11th, which is Veterans' Day. Monday, November 4th is a possible substitute.

6. BOARD COMMENTS

7. ADJOURNMENT



**PLANNING & ZONING BOARD AGENDA MEMORANDUM
AUGUST 12, 2024 AGENDA**

TO: The Members of the Planning & Zoning Board

FROM:

PREPARED BY: Cheri Schwab, City Clerk

SUBJECT: Nomination of pro tem Chair

SYNOPSIS:

FISCAL IMPACT STATEMENT:

BACKGROUND:

LEGAL REVIEW:

RECOMMENDATION:

SUGGESTED MOTION:

ATTACHMENT: None

MINUTES
PLANNING & ZONING BOARD MEETING
May 13, 2024
3000 Bellemead Drive Daytona Beach Shores, FL 32118

1. OPENING REMARKS

Present: Member Rick Delange, Member Chuck Horion, Member James Lilly, Member Guy Desai

Staff: City Clerk Cheri Schwab, City Attorney Paul Waters, Community Services Director Stewart Cruz and City Planner Gwyn Herstein.

2. MINUTES

A. Planning & Zoning Minutes March 11, 2024

MEMBER CHUCK HORION moved, seconded by MEMBER GUY DESAI to Approve the Planning & Zoning Minutes of March 11, 2024.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 4 No = 0).

Yes: Member Rick Delange, Member Chuck Horion, Member James Lilly, Member Guy Desai

3. QUASI-JUDICIAL HEARING

A. Ordinance 2024-11: Rezoning Application For Recently Annexed Property Located At 3635 Cardinal Boulevard

The board members declared there was no ex-parte communication. Witnesses were sworn in for the day's hearings. Community Services Director Stewart Cruz explained the proposed ordinance would rezone the recently annexed property as required per Florida Statutes. The zoning would change from the county's R-6 designation to the city's RSF2 (single family residential). It was explained that the property was a quad-plex with single family units, and it would remain the same way. It was noted that if the property were to receive 50% damage or more, only a single family residence could be constructed on the site. Aerial views of the property and surrounding neighborhood were shown. All the criteria for the application have been met and all due public notice was satisfied. Staff recommended approval.

County Resident Julie Odom questioned the use of the property. She stated that she was aware there were three long term rentals and the fourth was vacant. She does not want to see another Airbnb in the neighborhood.

Attorney Joey Posey spoke for the applicant. The owner intends to keep the three long-term tenants and only rent out the fourth unit. Director Cruz reminded the board that the city was unable to regulate Airbnb rentals.

MEMBER CHUCK HORION moved, seconded by MEMBER GUY DESAI to recommend Approval of Ordinance 2024-11 to the City Commission.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 3 No = 1).

Yes: Member Rick Delange, Member Chuck Horion, Member Guy Desai **No:** James Lilly

B. Ordinance 2024-12: Rezoning Application For Recently Annexed Property Located At 110 Van Avenue

Community Services Director Stewart Cruz explained the proposed ordinance would rezone the recently annexed property as required per Florida Statutes. The zoning would change from the county's R-9 designation to the city's RSF-2 (single family residential). Aerial views of the property and surrounding neighborhood were shown. All the criteria for the application have been met and all due public notice was satisfied. Staff recommended approval. County resident Julie Odom inquired what the intend use was for the property. She does not want to see another rental property.

MEMBER CHUCK HORION moved, seconded by MEMBER GUY DESAI to Recommend Approval of Ordinance 2024-12 to the City Commission.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 4 No = 0).

Yes: Member Rick Delange, Member Chuck Horion, Member James Lilly, Member Guy Desai

C. Ordinance 2024-13: Rezoning Application For Recently Annexed Property Located At 129 Esmeralda Avenue

Community Services Director Stewart Cruz explained the proposed ordinance would rezone the recently annexed property as required per Florida Statutes. The zoning would change from the county's R-9 designation to the city's RSF-2 (single family residential). Aerial views of the property and surrounding neighborhood were shown. All the criteria for the application have been met and all due public notice was satisfied. Staff recommended approval.

MEMBER CHUCK HORION moved, seconded by MEMBER GUY DESAI to Recommend Approval of Ordinance 2024-13 to the City Commission.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 4 No = 0).

Yes: Member Rick Delange, Member Chuck Horion, Member James Lilly, Member Guy Desai

4. ACTION ITEMS

A. Ordinance 2024-14: Comprehensive Plan Future Land Use Map Amendment For Recently Annexed Property Located At 3635 Cardinal Boulevard

Director Cruz explained that this was a recently annexed property and state law requires that the city assign a future land classification use. The property is a quad-plex with single-family residences. The current county designation is county urban low intensity. The proposed city designation is residential low intensity. All due public notice had been met and staff recommended approval.

MEMBER CHUCK HORION moved, seconded by MEMBER GUY DESAI to Recommend

Approval of Ordinance 2024-14 to the City Commission.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 4 No = 0).

Yes: Member Rick Delange, Member Chuck Horion, Member James Lilly, Member Guy Desai

B. Ordinance 2024-15: Comprehensive Plan Future Land Use Map Amendment For Recently Annexed Property Located At 110 Van Avenue

Director Cruz explained that this was a recently annexed property and state law requires that the city assign a future land classification use. The property is a single-family residence. The current county designation is county urban low intensity. The proposed city designation is residential low intensity. All due public notice had been met and staff recommended approval.

MEMBER CHUCK HORION moved, seconded by MEMBER GUY DESAI to Recommend Approval of Ordinance 2024-15 to the City Commission.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 4 No = 0).

Yes: Member Rick Delange, Member Chuck Horion, Member James Lilly, Member Guy Desai

C. Ordinance 2024-16: Comprehensive Plan Future Land Use Map Amendment For Recently Annexed Property Located At 129 Esmeralda Avenue

Director Cruz explained that this was a recently annexed property and state law requires that the city assign a future land classification use. The property is a single-family residence. The current county designation is county urban low intensity. The proposed city designation is residential low intensity. All due public notice had been met and staff recommended approval.

MEMBER CHUCK HORION moved, seconded by MEMBER GUY DESAI to Recommend Approval of Ordinance 2024-16 to the City Commission.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 4 No = 0).

Yes: Member Rick Delange, Member Chuck Horion, Member James Lilly, Member Guy Desai

D. Development Agreement Application 12024010: Daytona Ocean Investment Corporation & Hotel Motel, Inc, 2601 - 2613 S. Atlantic Avenue

Community Services Director Stewart Cruz gave a brief staff report regarding the proposed Development Agreement. There are four parcels on the site with approximately three acres. The proposed project would be a 101-unit, 8-story Cambria Hotel to include a restaurant, pool and parking. There would be three years allowed for permit issuance and 5 years to receive a final certificate of occupancy. There are four deviations requested from the City's Land Development Code. They are: 1) parking spaces from 102 required to 95 total; 2) building setbacks; 3) two loading zones to one and 4) green space from 20% minimum to 17%. The parking spaces include 20 spaces that would be double stacked. Aerial views of the property and concept renderings were shown to the board. Director Cruz stated that all the requirements had been met and staff recommended approval. Chairperson deLange had concerns regarding the parking spaces since they included staff and ADA spaces. He would also like to see an increase in green space, not less.

Attorney Joey Posey spoke for the applicant. He explained that the property would have valet parking available for both staff and guests. Mr. Lilly was not in favor of this, stating people don't always like to pay for valet parking. It was stated that many guests now utilize Uber or Lyft ridesharing services instead of driving a vehicle. Engineer Mark Dowst stated the deviations were necessary in order to meet the requirements to obtain the Cambria name. Director Cruz added that the property owner also owned the Emerald Shores and that it could be used for overflow if needed.

MEMBER CHUCK HORION moved, seconded by MEMBER GUY DESAI to Recommend Approval of the Development Agreement Application 12024010: Daytona Ocean Investment Corporation & Hotel Motel, Inc, 2601 - 2613 S. Atlantic Avenue to the City Commission.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 3 No = 1).

Yes: Member Chuck Horion, Member James Lilly, Member Guy Desai **No:** Rick Delange

5. OTHER

6. BOARD COMMENTS

Community Services Director Stewart Cruz announced the promotion of Gwyn Herstein to City Planner.

7. ADJOURNMENT

The meeting ended at 9:58 am.

Cheri Schwab, Recording Secretary

Rick DeLange, Chairman



PLANNING & ZONING BOARD AGENDA MEMORANDUM AUGUST 12, 2024 AGENDA

TO: The Members of the Planning & Zoning Board

FROM: Gwyn Herstein, Code Enforcement Coordinator

PREPARED BY: Gwyn Herstein, Code Enforcement Coordinator

SUBJECT: Regular Site Plan RSP12023048: SHORES DEPOT - ALL ABOARD STORAGE Interior Storage Facility, 2616 S. Atlantic Avenue

SYNOPSIS:

On September 25, 2023, applicant Andy Clark, Manager of 2616 Atlantic LLC (formerly 91 Oneida LLC), submitted Regular Site Plan application RSP12023048. The site plan, if approved, would facilitate construction of a 3-story 36,104 sq ft interior storage facility called "Shores Depot - All Aboard Storage." The development site is located on the west side of the parcel of land at located at 2616 S. Atlantic Avenue. This site has a total acreage of 1.56 acres and a street frontage of 220 feet along South Atlantic Avenue. A total of 123 interior storage units of various sizes are currently planned for this building.

FISCAL IMPACT STATEMENT:

BACKGROUND:

See attached Planning Analysis.

LEGAL REVIEW:

RECOMMENDATION:

Staff recommends approval of Regular Site Plan RSP12023048 as presented, with the conditions identified in Exhibit H.

SUGGESTED MOTION:

A Planning and Zoning Board member may move as follows:

1. "I move to recommend approval of the SHORES DEPOT - ALL ABOARD STORAGE Interior Storage Facility Project Site Plan, RSP12023048, as presented, with the conditions identified in Exhibit H."

OR

2. "I move to recommend approval of the SHORES DEPOT - ALL ABOARD STORAGE Interior Storage Facility Project Site Plan, RSP12023048, with the following conditions on the basis of the following..."

OR

3. "I move to recommend denial of the SHORES DEPOT - ALL ABOARD STORAGE Interior Storage Facility Project Site Plan, RSP12023048, on the basis of the following..."

- ATTACHMENT:**
1. a Shores Depot - All Aboard Storage, RSP12023048 APPLICATION and CHANGE OF BUSINESS NAME
 2. b Shores Depot - All Aboard Storage, RSP12023048 PLAN SET
 3. c Shores Depot - All Aboard Storage, RSP12023048 COLOR ELEVATIONS
 4. d Shores Depot - All Aboard Storage, RSP12023048 PLANNING ANALYSIS



City of Daytona Beach Shores

Building & Codes Division
Department of Community Services
Telephone: (386) 763-5377
Fax (386) 763-5370

SPR#: 12023048
FEE
Amt: \$ 827.00
Reviewed By:
Gwyn Hurst
Date: 8-7-2024

SITE PLAN REVIEW APPLICATION RECEIVED

12023048 04 28 16

SEP 25 2023

BUILDING AND CODES DIVISION
CITY OF DAYTONA BEACH SHORES

Project Name: Shores Depot

Project Location (Address): 2616 S Atlantic Ave

Parcel #/s: 15-33-22-00-04-0140 & 15-33-22-00-04-0170

Property Owner's Name: 91 ONEIDA LLC
(If Applicant is not owner, attach authorization affidavit)

5122-00-04-0140

Applicant/Developer Name: Andy Clark, Manager of 91 ONEIDA LLC

Mailing Address: 5111 South Ridgewood Ave, Suite 201, Port Orange, FL 31227

Phone: 386-236-1970

Fax: _____

Project Coordinator: Brad Donley, PE

Mailing Address: 1230 N US HWY 1, Suite 3, Ormond Beach, FL 32174

Phone: 386-872-7794

Fax: _____

APPLICATION TYPE:

- ☐ Conceptual Plan Review
☐ Administrative Site Plan Review (Projects must be 5000 sq. ft. GFA or Less)
☒ Regular Site Plan Review (Projects must be greater than 5000 sq. ft. GFA)
☐ Follow up review of previously submitted site plan/ and or amendments to site plan
☐ Site Plan Extension

Proposed Use: Mini-Warehouse & Commercial

Property Size (Acres & Square Footage): 1.564 ac, 68,135 sf

Proposed GFA (Gross Floor Area) of project: 36,104 sf

Submitted By: Brad Donley, PE Date: 9/20/23

No applications, drawings, etc. will be accepted until all application fees are paid.

ARTICLES OF AMENDMENT
TO
ARTICLES OF ORGANIZATION
OF

91 ONEIDA LLC

(Name of the Limited Liability Company as it now appears on our records.)
(A Florida Limited Liability Company)

The Articles of Organization for this Limited Liability Company were filed on 05/06/2020 and assigned
Florida document number L20000143256.

This amendment is submitted to amend the following:

A. If amending name, enter the new name of the limited liability company here:

2616 ATLANTIC LLC

The new name must be distinguishable and contain the words "Limited Liability Company," the designation "LLC" or the abbreviation "L.L.C."

Enter new principal offices address, if applicable:

(Principal office address MUST BE A STREET ADDRESS)

Enter new mailing address, if applicable:

(Mailing address MAY BE A POST OFFICE BOX)

FILED
2024 APR 29 PM 12:20
SECRETARY OF STATE
TALLAHASSEE, FL

B. If amending the registered agent and/or registered office address on our records, enter the name of the new registered agent and/or the new registered office address here:

Name of New Registered Agent:

New Registered Office Address:

Enter Florida street address

_____, Florida _____
City Zip Code

New Registered Agent's Signature, if changing Registered Agent:

I hereby accept the appointment as registered agent and agree to act in this capacity. I further agree to comply with the provisions of all statutes relative to the proper and complete performance of my duties, and I am familiar with and accept the obligations of my position as registered agent as provided for in Chapter 605, F.S. Or, if this document is being filed to merely reflect a change in the registered office address, I hereby confirm that the limited liability company has been notified in writing of this change.

If Changing Registered Agent, Signature of New Registered Agent

If amending Authorized Person(s) authorized to manage, enter the title, name, and address of each person being added or removed from our records:

MGR = Manager

AMBR = Authorized Member

<u>Title</u>	<u>Name</u>	<u>Address</u>	<u>Type of Action</u>
_____	_____	_____	☐ Add
		_____	☐ Remove
		_____	☐ Change
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		_____	☐ Remove
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		_____	☐ Remove
		_____	☐ Change

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(If an effective date is listed, the date must be specific and cannot be prior to date of filing or more than 90 days after filing.) Pursuant to 605.0207 (3)(b)

If the record specifies a delayed effective date, but not an effective time, at 12:01 a.m. on the earlier of: (b) The 90th day after the record is filed.

[Signature]

Douglas Andrew Clark

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SHEET No.	SHEET TITLE
01	COVER
02	SURVEY
03	DEVELOPMENT INFORMATION
04	DEMOLITION AND SWPPP PLAN
05	SWPPP DETAILS
06	SITE LAYOUT PLAN
07	SITE GRADING AND DRAINAGE PLAN
08	CROSS SECTIONS
09	SITE UTILITY PLAN
10	UTILITY DETAILS
11	CITY OF DAYTONA BEACH DETAILS
12	CITY OF DAYTONA BEACH DETAILS 2
13	MISCELLANEOUS DETAILS
14	MAINTENANCE OF TRAFFIC
15	AUTOTURN PLAN - FIRE
16	AUTOTURN PLAN -TRASH
L1	LANDSCAPE PLAN
L2	LANDSCAPE DETAILS
L3	IRRIGATION PLAN
L4	IRRIGATION DETAILS

SITE PLAN DRAWINGS FOR

ALL ABOARD STORAGE

SHORES DEPOT

SECTION 02, TOWNSHIP 16S, RANGE 33E
15-33-22-00-04-0140 AND 15-33-22-00-04-0170
2616 SOUTH ATLANTIC AVENUE
DAYTONA BEACH SHORES, FL 32118
SEPTEMBER 2023
REVISED JULY 2024

PROJECT TEAM

PROPERTY OWNER & APPLICANT: 91 ONEIDA LLC
5111 SOUTH RIDGEWOOD AVENUE, SUITE 201
PORT ORANGE, FL 32127
PHONE: (386) 236-1970
EMAIL: ACLARK@GOALLABOARD.COM

ENGINEER/ PROJECT MANAGER/ LANDSCAPE ARCHITECT: NEWKIRK ENGINEERING, INC.
1230 NORTH HIGHWAY 1, SUITE 3
ORMOND BEACH, FL 32174
PHONE: (386) 872-7794
EMAIL: GBOGART@NEWKIRK-ENGINEERING.COM

ARCHITECT: BPF DESIGN INCORPORATED.
207 FAIRVIEW AVENUE
DAYTONA BEACH, FL 32114
PHONE: (386) 257-0502
EMAIL: BPFDESIGN@CFL.RR.COM

SURVEYOR: J.J. MATEJKA AND ASSOCIATES
408 HARVEY AVENUE
DAYTONA BEACH, FL 32118
PHONE: (386) 252-7371
EMAIL: JOHN.MATEJKA@OUTLOOK.COM

CONTACT NUMBERS

BUILDING & PERMITS - CITY OF DAYTONA BEACH SHORES BUILDING DIVISION (386) 763-5377
PLANNING & ZONING - CITY OF DAYTONA BEACH SHORES PLANNING DEPT. (386) 763-5376
WATER - CITY OF CITY OF DAYTONA BEACH (386) 671-8827
WASTEWATER - CITY OF DAYTONA BEACH SHORES SEWER UTILITY DIVISION (386) 763-5366
GAS - TECO PEOPLES GAS - (813) 275-3783
ELECTRIC - FLORIDA POWER & LIGHT (386) 586-6403
TELEPHONE/CABLE - AT&T (386) 257-7950
CABLE - SPECTRUM (386) 788-4198

LEGAL DESCRIPTION

PART OF GOVERNMENT LOT 4, SECTION 22, TOWNSHIP 15 SOUTH, RANGE 33 EAST, VOLUSIA COUNTY, FLORIDA AND PART OF LOTS 188, 190, 194 AND 196 OF BUILDING 16, SEA HAVENS, OF RECORD IN MAP BOOK 40, PAGE 151, PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA, ALL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE NORTH LINE OF SAID GOVERNMENT LOT 4 WITH THE WESTERLY RIGHT OF WAY LINE OF SOUTH ATLANTIC AVENUE (FORMERLY OCEAN SHORE BOULEVARD), ALSO BEING STATE ROAD A-1-A, AN 80 FOOT RIGHT OF WAY AS NOW LAID OUT; THENCE S23° 44' 47"E ALONG SAID WESTERLY RIGHT OF WAY LINE, 543.87 FEET TO THE POINT OF BEGINNING; THENCE S89° 24' 40"W, 199.81 FEET TO A POINT IN THE EASTERLY LINE OF SAID LOT 190; THENCE S23° 46' 32"E ALONG THE EASTERLY LINE OF SAID LOTS 190 AND 188 AND THE SOUTHERLY EXTENSION THEREOF, 74.90 FEET TO A POINT IN THE SOUTH LINE OF THE NORTH 618.92 FEET WEST OF AND MEASURED ON SAID WESTERLY RIGHT OF WAY LINE OF SOUTH ATLANTIC AVENUE, OF SAID GOVERNMENT LOT 4; THENCE S89° 28' 06"W ALONG SAID LINE, 100.37 FEET TO A POINT IN THE WESTERLY LINE OF THE EAST 300 FEET WEST OF SAID SOUTH ATLANTIC AVENUE; THENCE N23° 43' 07"W ALONG SAID LINE, 296.79 FEET; THENCE N89° 26' 13"E, 300.00 FEET TO A POINT IN THE WESTERLY RIGHT OF WAY LINE OF SAID SOUTH ATLANTIC AVENUE; THENCE S23° 44' 47"E ALONG SAID WESTERLY RIGHT OF WAY LINE, 221.93 FEET TO THE POINT OF BEGINNING. CONTAINING 1.564 ACRES MORE OR LESS.

PROJECT STATEMENT

PROPOSE AN EXPANSION OF AN EXISTING SHERWIN WILLIAMS RETAIL STORE PROPERTY TO ADD A 3-STORY CLIMATE CONTROLLED SELF-STORAGE FACILITY ON 1.56± TOTAL ACRES. THE DEVELOPMENT WILL HAVE A TOTAL OF 1.19 ACRES OF IMPERVIOUS SURFACE. ADDITIONAL IMPROVEMENTS ARE LANDSCAPING, PARKING AREA ALTERATIONS, SITE GRADING, AND A FIRE SERVICE WITH HYDRANT AND FIRE DEPARTMENT CONNECTION.

JURISDICTIONAL AGENCY PERMIT No.

CITY OF DAYTONA BEACH SHORES (DEVELOPMENT ORDER) 0448295001EG
SJRWMD ERP (10-2 SELF CERTIFICATION) 2023-D-591-00059
FDOT (DRAINAGE) 2023-A-591-00058
FDOT (ACCESS)



AERIAL MAP

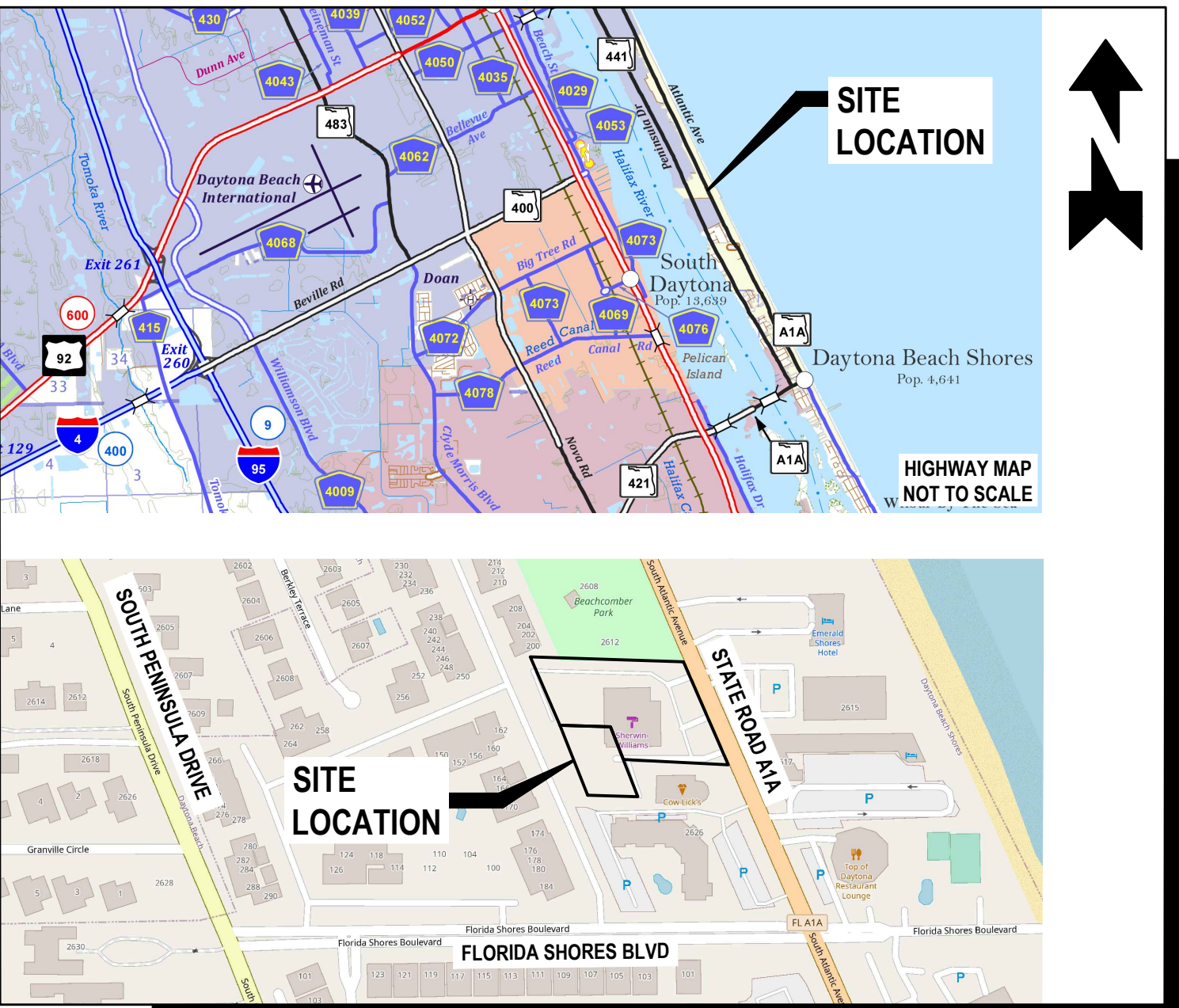
SCALE: 1" = 250'



FLOOD ZONE MAP

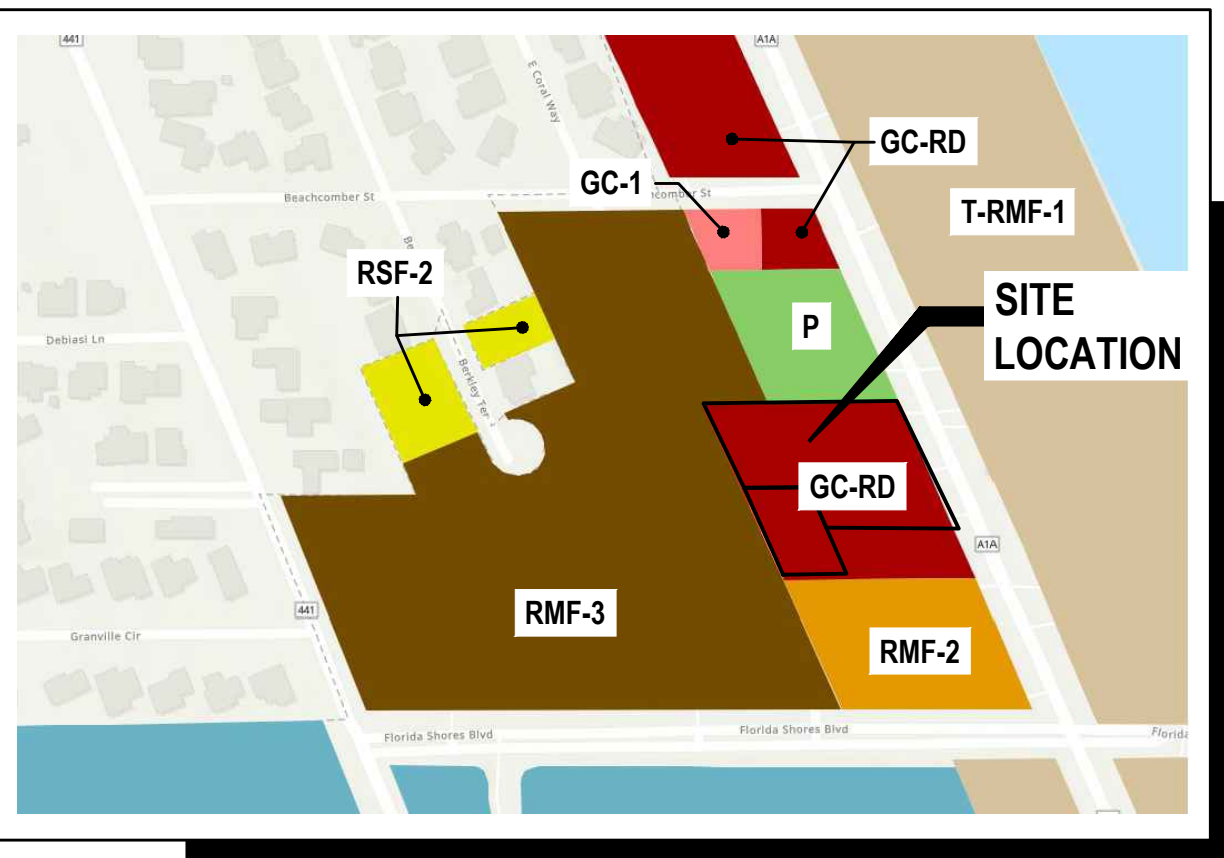
SCALE: 1" = 700'

FLOOD ZONE "X"
PANEL No. 12127C0386J, EFF. 9/29/2017



LOCATION MAP

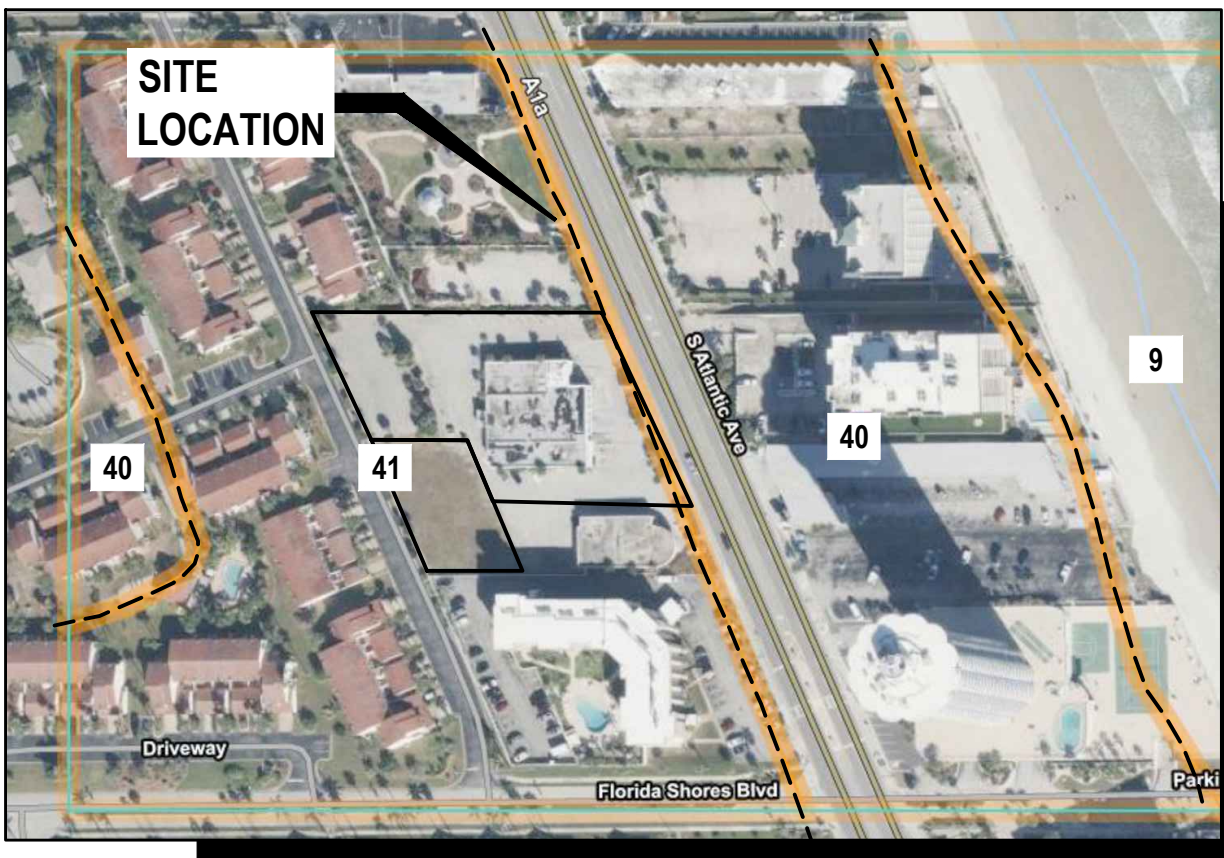
SCALE: 1" = 200'



ZONING MAP

SCALE: 1" = 300'

ZONING : GC-RD (GENERAL COMMERCIAL - REDEVELOPMENT)



SOILS MAP

SCALE: 1" = 200'

SOIL TYPES: (40) PALM BEACH-URBAN LAND-PAOLA COMPLEX, 0 TO 8 PERCENT SLOPES
(41) PALM BEACH-PAOLA ASSOCIATION, 2 TO 8 PERCENT SLOPES



WARNING !!

CONTRACTOR SHALL TAKE ALL PRECAUTIONS DURING CONSTRUCTION TO AVOID CONTACT WITH EXISTING UNDERGROUND UTILITIES AND OVERHEAD ELECTRIC IN THE RIGHT-OF-WAY.

THE GENERAL CONTRACTOR SHALL ENSURE THAT ANY SUBCONTRACTOR HAS A COMPLETE SET OF CONSTRUCTION DRAWINGS FOR ITS RESPECTIVE WORK. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR SUBCONTRACTORS ONLY UTILIZING INDIVIDUAL DRAWINGS FOR ITS WORK WHERE ADDITIONAL INFORMATION MAY BE CONTAINED ON OTHER DRAWINGS WITHIN THE SET.

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
CODY A. BOGART, PE # 94133 ON

Digitally signed by Cody A. Bogart
Date: 2024.07.26 11:38:40-0400'

CODY A. BOGART
LICENSE
No. 94133
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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DRAWING NUMBER

01

PROJECT No. 2022-159

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GOVERNMENT LOT 4, SECTION 22, TOWNSHIP 15 SOUTH, RANGE 33 EAST, BEACHSIDE	
FOR: ALL ABOARD PROPERTIES 5111 SOUTH RIDGEWOOD AVENUE SUITE 201 PORT ORANGE, FLORIDA	BY: J. J. MATEJKA & ASSOCIATES, INC. PROFESSIONAL SURVEYORS & MAPPER 408 HARVEY AVENUE DAYTONA BEACH, FLORIDA
	PLAT #22X1

GENERAL CONSTRUCTION NOTES

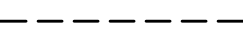
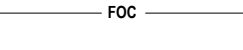
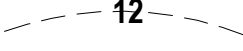
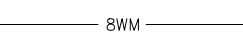
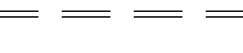
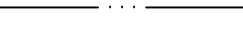
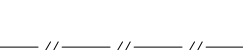
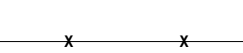
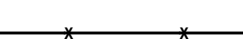
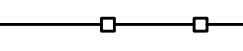
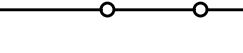
1. GOVERNING SPECIFICATIONS: THE CITY OF DAYTONA BEACH SHORES LAND DEVELOPMENT CODE, CITY OF DAYTONA BEACH AND PORT ORANGE STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS, LATEST EDITION.
2. ALL CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE 2023-2024 EDITION OF THE FDOT DESIGN STANDARD PLANS, THE 2019 EDITION OF THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE 2017 EDITION OF THE FDOT UTILITY ACCOMMODATIONS MANUAL.
3. ALL UTILITY MATERIAL, CONSTRUCTION AND TESTING COVERED BY THESE DRAWINGS SHALL COMPLY WITH THE CITY OF PORT ORANGE STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS, LATEST EDITION. ALL UTILITY WORK AND CONNECTIONS SHALL BE COORDINATED WITH THE THE CITY OF DAYTONA BEACH SHORES INSPECTOR.
4. THE CONTRACTOR SHALL PAY FOR AND OBTAIN A BUILDING PERMIT. THE ENGINEER WILL SCHEDULE THE PRECONSTRUCTION CONFERENCE BEFORE THE CONTRACTOR'S START OF WORK. THE CONTRACTOR SHALL CONTACT THE BUILDING DEPARTMENT AT (386) 763-5377 FOR INFORMATION ON ISSUANCE OF CITY PERMITS AND / OR OTHER REQUIREMENTS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DEFICIENCIES OR DISCREPANCIES AMONG THE DIVISIONS OF THE DRAWING AND SPECIFICATIONS PRIOR TO THE BID DATE. NEITHER THE OWNER OR ENGINEER WILL BE RESPONSIBLE FOR ANY DEFICIENCIES OR DISCREPANCIES RAISED AFTER THE BID OPENING. ACCORDINGLY, IN LIGHT OF THESE OBLIGATIONS, THE ENGINEER IS OBLIGATED TO INTERPRET THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT WILL PROVIDE THE OWNER WITH A COMPLETE, FUNCTIONING FACILITY FOR THE BID PRICE.
6. THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLEMENTARY, AND ANY REQUIREMENT OF ONE SHALL BE A REQUIREMENT OF THE OTHER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS AND TO COMPARE THE REQUIREMENTS OF EACH DIVISION AND ENSURE THAT EACH TRADE OR SUBCONTRACTOR IS MAKING THE ALLOWANCES NECESSARY TO PROVIDE THE OWNER A COMPLETE FACILITY, OPERATIONAL IN ALL RESPECTS, UNLESS OTHERWISE SPECIFICALLY STATED IN THE DRAWINGS.
7. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INSTRUCTING THE CONTRACTOR IN THE METHODS OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE METHOD TO CONSTRUCT THE IMPROVEMENTS AS SHOWN ON THE PLANS.
8. ONLY ONE TEMPORARY CONSTRUCTION SIGN IS PERMITTED, NOT TO EXCEED 32 SQUARE FEET IN SIGN AREA, MAXIMUM HEIGHT OF 8 FEET AND NO CLOSER THAN 10 FT FROM PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL APPLY FOR A TEMPORARY SIGN PERMIT AT THE THE CITY OF DAYTONA BEACH SHORES BUILDING DEPARTMENT. THE SIGN MUST BE REMOVED UPON RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
9. LITTER CONTROL MEASURES TO PREVENT WIND-DRIVEN DEBRIS SHALL BE IMPLEMENTED THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEBRIS SHALL BE REMOVED AND THE PROJECT SITE CLEANED WITHIN 30 DAYS OF COMPLETION OF CONSTRUCTION.
10. AT NO TIME SHALL EXCAVATIONS BE LEFT UNCOVERED AFTER WORKING HOURS. CONTRACTOR SHALL SECURE THE WORK AREA AT THE END OF EACH DAY'S WORK.
11. AT ALL TIMES, THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT UNDERGROUND UTILITIES, STRUCTURES AND OTHER ASSOCIATED FACILITIES FROM DAMAGE DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEASURES OF PROTECTION. ANY DAMAGED FACILITIES SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE CITY OR ENGINEER AT THE CONTRACTORS EXPENSE.
12. THERE SHALL BE NO DEVIATIONS FROM THESE PLANS UNLESS APPROVED IN WRITING BY THE ENGINEER AND THE OWNER.
13. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST FORTY- EIGHT (48) HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
14. CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN PROJECT AND PAY ALL REQUIRED FEES AND COST.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF THE RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER, TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND BASE DENSITIES AT UTILITY CROSSINGS, MANHOLES, INLETS, STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.
16. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.
17. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.
18. ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADES.
19. CONCRETE WALKS SHALL BE 4 INCHES THICK HAVING A 3,000 PSI STRENGTH, POURED OVER PROPERLY PREPARED SUBGRADE. ALL CONCRETE SIDEWALKS SHALL BE 8 INCHES THICK ACROSS DRIVEWAYS. 1/2 INCH EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 50'. CRACK CONTROL JOINTS SHALL BE 5' ON CENTERS.
20. CORE TESTS SHALL BE TAKEN TO VERIFY THICKNESS AND SUBSURFACE COMPACTION. PROVIDE FOR THREE SAMPLES, RANDOMLY LOCATED. TEST FOR EXTRACTION, GRADATION, LABORATORY DENSITY, AND MARSHALL'S STABILITY. PROVIDE A CERTIFICATE FROM THE TESTING AGENCY THAT MATERIALS AND INSTALLATION COMPLY WITH SPECIFICATIONS, SIGNED BY THE ASPHALTIC CONCRETE PRODUCER AND CONTRACTOR. ALL COSTS OF TESTS SHALL BE PAID BY THE CONTRACTOR. IF TESTS SHOW THE INSTALLATION DOES NOT MEET SPECIFICATIONS, THE PAVING SHALL BE REMOVED, REPLACED, AND RETESTED.
21. IF ANY MUCK-LIKE MATERIAL IS DISCOVERED, IT WILL BE REQUIRED TO BE REMOVED, BACKFILLED WITH APPROPRIATE FILL, COMPACTED, AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.
22. FILL MATERIAL IS TO BE PLACED IN ONE FOOT LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (98% FOR PAVED AREAS AND 95% FOR BUILDING PADS AND ALL OTHER AREAS AS PER AASHTO T-180).
23. NO BURYING OF ANY ORGANIC MATERIALS ALLOWED.
24. THERE WILL BE NO PROPOSED OVERHEAD UTILITY AND SERVICE LINES ASSOCIATED WITH THIS PROJECT. ALL UTILITY LINES AND SERVICES WILL BE INSTALLED UNDERGROUND AT THE OWNER'S, DEVELOPER'S OR BUILDER'S EXPENSE.
25. SET UP AND WORK ON SHOULDER AND WITHIN TRAVEL WAY SHALL ONLY OCCUR BETWEEN THE HOURS SPECIFIED ON THE THE CITY OF DAYTONA BEACH SHORES ROW PERMIT. ALTERNATIVELY, WORK CAN BE SCHEDULED DURING SCHOOL HOLIDAYS OR ON WEEKENDS.

SITE AND GENERAL INFORMATION

1. THE PROPERTY AREA BOUNDARY CONSISTS OF 68,088 SF OR 1.563 ACRES. FOR BOUNDARY AND TOPOGRAPHIC SURVEY REFER TO THE SURVEY PERFORMED BY J.J. MATEJKA AND ASSOCIATES. (SEE SHEET No. 2 OF THESE PLANS).
2. THE ZONING IS GC-RD (GENERAL COMMERCIAL - REDEVELOPMENT).
3. THE TAX PARCEL NUMBERS ARE 15-33-22-00-04-0140 AND 15-33-22-00-04-0170.
4. THE EXISTING SITE CONDITION IS A DEVELOPED COMMERCIAL SITE. THE FLUCFCS LAND USE IS (141) RETAIL SALES AND SERVICES.
5. PER THE USDA NATURAL RESOURCES CONSERVATION SERVICE FOR VOLUSIA COUNTY, THE SCS SOILS MAP INDICATES THE SITE CONSISTS OF 40) PALM BEACH-URBAN LAND-PAOLA COMPLEX, 0 TO 8 PERCENT SLOPES AND (41) PALM BEACH-PAOLA ASSOCIATION, 2 TO 8 PERCENT SLOPES.
6. THE SITE IS LOCATED WITHIN ZONE "X" PER FEMA MAP PANEL No. 12127C0386J, DATED SEPTEMBER 29, 2017.
7. ELECTRICAL UTILITY SERVICE WILL BE PROVIDED BY FLORIDA POWER & LIGHT. NATURAL GAS WILL BE PROVIDED BY TECO PEOPLES GAS COMPANY. TELEPHONE, CABLE AND INTERNET SERVICE WILL BE PROVIDED BY AT&T. CABLE TV AND INTERNET CAN ALSO BE PROVIDED BY SPECTRUM NETWORKS.
8. SOLID WASTE WILL BE COLLECTED AND DISPOSED OF BY WASTE MANAGEMENT, INC.
9. THE SITE IS NOT LOCATED WITHIN THE LIMITS OF A WELLHEAD PROTECTION ZONE AND THERE IS NO ORDINARY HIGH WATER (OHW) LINE WITHIN THE SITE.
10. FIRE SERVICE WILL BE PROVIDED BY 6" FIRE MAIN CONNECTION TO THE ON-SITE WATER MAIN.
11. IRRIGATION SERVICE WILL BE PROVIDED BY PRIVATE WELL.
12. ALL ON-SITE WATER AND SEWER FACILITIES ARE OWNED AND MAINTAINED BY THE PROPERTY OWNER.

LEGEND

NOTE: NOT ALL SYMBOLS SHOWN HERE MAY BE APPLICABLE TO THESE DRAWINGS, ALSO THERE MAY BE ADDITIONAL SYMBOLS WITHIN PLANS NOT SHOWN HERE, SEE INDIVIDUAL DRAWING LEGEND WHERE APPLICABLE.

	BENCHMARK ID		4" BY 4" CONCRETE MONUMENT
	BORING ID		EXISTING EASEMENT
	EXISTING CABLE TV PEDESTAL		EXISTING UNDERGROUND FIBER OPTIC CABLE
	EXISTING CAP OR PLUG		EXISTING FORCE MAIN (# INDICATES SIZE)
	EXISTING CLEAN OUT		EXISTING GAS MAIN
	EXISTING CONDUIT RISER/ MARKER		EXISTING OVERHEAD ELECTRIC CABLES
	EXISTING ELECTRIC METER		EXISTING OVERHEAD TRAFFIC SIGNAL CABLE
	EXISTING ELEVATION (SOFT)		EXISTING RAW WATER MAIN (# INDICATES SIZE)
	PROPOSED ELEVATION (SOFT)		EXISTING RECLAIM WATER MAIN (# INDICATES SIZE)
	EXISTING ELEVATION (HARD)		PROPOSED SANITARY SEWER (# INDICATES SIZE)
	PROPOSED ELEVATION (HARD)		PROPOSED WATER MAIN (# INDICATES SIZE)
	EXISTING FIRE HYDRANT		EXISTING CONTOUR
	PROPOSED FIRE HYDRANT		PROPOSED CONTOUR (SOFT)
	EXISTING FLOW DIRECTION		PROPOSED CONTOUR (HARD)
	PROPOSED FLOW DIRECTION		EXISTING UNDERGROUND TELEPHONE CABLE
	EXISTING GAS METER		EXISTING UNDERGROUND TELEVISION CABLE
	EXISTING GAS VALVE		EXISTING UNDERGROUND ELECTRICAL POWER CABLE
	EXISTING GUY WIRE & ANCHOR PIN		JURISDICTIONAL WETLAND LINE
	EXISTING MAIL BOX		EXISTING SANITARY SEWER (# INDICATES SIZE)
	EXISTING MANHOLE (UNKNOWN)		EXISTING WATER MAIN (# INDICATES SIZE)
	PROPOSED MANHOLE		EXISTING PIPE OR CONDUIT (TYPE SPECIFIED)
	EXISTING SANITARY SEWER CLEANOUT		EXISTING SWALE OR CENTER OF DITCH
	EXISTING SANITARY SEWER MANHOLE		PROPOSED SWALE OR CENTER OF DITCH
	EXISTING ROAD SIGNS AND POSTS		EXISTING TOP OF DITCH BANK
	PROPOSED SIGN AND POST		EXISTING BOTTOM OF DITCH BANK
	EXISTING TEE		EXISTING WOOD FENCE
	EXISTING UTILITY POLE		EXISTING WIRE OR CHAIN LINK FENCE
	EXISTING VALVE IRRIGATION		PROPOSED WIRE OR CHAIN LINK FENCE
	EXISTING VALVE WATER		PROPOSED SILT/SEDIMENT FENCE
	PROPOSED WATER VALVE		PROPOSED COIR ROLL OR WATTLE
	EXISTING WATER METER		PROPOSED FLOATING TURBIDITY BARRIER
	EXISTING STORM SEWER WITH INLET		PROPOSED TREE PROTECTION
	1/2" IRON ROD (NO I.D.)		

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS - 2023 / 2024 AND QUALIFIED PRODUCTS LIST

INDEX NO.	DESCRIPTION	INDEX NO.	DESCRIPTION
102	TEMPORARY EROSION AND SEDIMENT CONTROL	102-600	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
425-010	STRUCTURE BOTTOMS - TYPES J AND P	102-602	TWO-LANE, TWO-WAY, WORK ON SHOULDER
205	PIPE BACKFILL	102-603	TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY
425-024	CURB INLET TOP TYPE 9	102-612	MULTILANE, WORK ON SHOULDER
520-001	CURB & CURB AND GUTTER	102-660	PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS
522-002	PUBLIC SIDEWALK CURB RAMPS	515-062	ALUMINUM PEDESTRIAN / BICYCLE PICKET RAILING
350-001	CONCRETE PAVEMENT JOINTS	700-101	TYPICAL SECTIONS FOR PLACEMENT OF SINGLE & MULTIPLE-COLUMN SIGNS
522-001	CONCRETE SIDEWALK		
514	OPTIONAL BASE GROUP AND STRUCTURAL NUMBERS	711-001	SPECIAL MARKING AREAS

FDOT GENERAL NOTES:

1. MAINTENANCE OF TRAFFIC TO BE SUPERVISED BY A CERTIFIED PERSON (ON SITE).
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WORK WITH IN THE FDOT R/W.
3. ALL WORK PERFORMED WITH IN THE FDOT R/W SHALL BE IN ACCORDANCE WITH THE 2019 EDITION OF THE FDOT DESIGN STANDARDS & SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, 2017 EDITION OF THE FDOT UTILITY ACCOMMODATION MANUAL AND FDOT STANDARD PLANS FY 2023-24.
4. IT IS THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGE TO FDOT FACILITIES CAUSED BY THE CONSTRUCTION OF THIS PROJECT.
5. ANY TEST RESULTS TAKEN DURING CONSTRUCTION OF THE PERMITTED WORK SHALL BE PROVIDED TO THE DEPARTMENT UPON REQUEST.
6. ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT TO NEAREST JOINT IN GOOD CONDITION, SO A CONNECTION THAT IS FREE OF CRACKS, DEFORMITIES OR VOIDS & IRREGULARITIES ARE NOT DEFECTIVE.
7. ALL STRIPING WITHIN THE FDOT RIGHT-OF-WAY SHALL BE PREFORMED THERMOPLASTIC.
8. ALL CONCRETE SHALL BE AN APPROVED FDOT MIX DESIGN OF 3,000 PSI.
9. ALL MATERIALS INSTALLED INSIDE FDOT RW SHALL BE ON THE QUALIFIED PRODUCTS LIST OR APPROVED PRODUCTS LIST.
10. ALL CONSTRUCTION SHALL BE STAKED FOR CONSTRUCTION BY MEANS OF DIGITAL COORDINATES BY SURVEYOR UTILIZING GEODETIC TOTAL STATION. SCALING OF DRAWINGS FOR PURPOSES OF STAKING ARE AT THE SURVEYOR'S RISK.
11. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC AND BARRICADE PLAN TO THE ENGINEER FOR APPROVAL WITH THE BID. INCLUDE THE MOT PLAN AT THE PRECONSTRUCTION MEETING.
12. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND THE FDOT INSPECTOR NOTIFIED FOR APPROVAL.
13. ALL BARRICADES AND POSTED SIGNAGE SHALL REMAIN IN PLACE UNTIL PAVING WORK IS COMPLETE. ALL BARRICADES SHALL BE VERIFIED IN PLACE BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
14. SOD ALL DISTURBED AREAS IN RIGHT-OF-WAY WITH BAHIA.
15. THE CONTRACTOR SHALL ENSURE THAT ALL SIDEWALKS AND CROSSWALKS CONFORM TO THE CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITY ACT (ADA).
16. ALL SIGNS AND PAVEMENT MARKINGS THAT ARE REMOVED OR DAMAGED BY CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT ARE TO BE REPLACED TO THEIR PRECONSTRUCTION CONDITIONS.
17. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO FDOT STANDARD INDEX No. 711-001.
18. IN THE EVENT PERMANENT VEHICLE DETECTION IS DISRUPTED, PROVIDE AN ALTERNATIVE MEANS OF DETECTION TO ALL LANES APPROACHING THE INTERSECTION, SEPARATING EACH MOVEMENT WHICH PREVIOUSLY HAD DETECTION. THE TYPE OF DETECTOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. EQUIPMENT SHALL ONLY DETECT THE INTENDED MOVEMENT.
19. THERE SHALL BE NO SR 44 LANE CLOSURES DURING 7 A.M. TO 7 P.M. MONDAY TO SUNDAY.
20. THERE SHALL BE NO WORK WITHIN THE VICINITY OF THE SIGNALIZED INTERSECTION DURING 7 A.M. TO 7 P.M. MONDAY TO SUNDAY.
21. CONTRACTOR TO PROVIDE TEMPORARY VIDEO DETECTION FOR SIGNAL WHILE LOOPS ARE DISTURBED DURING MILLING AND RESURFACING.

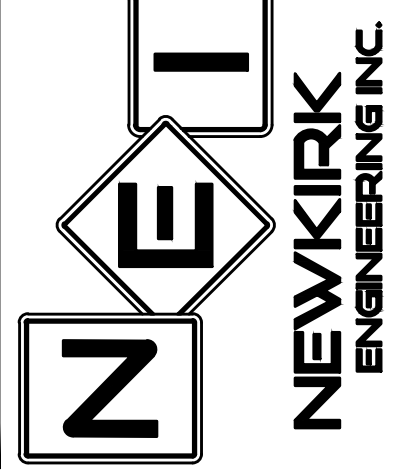
ABBREVIATIONS

AWWA	AMERICAN WATER WORKS ASSOCIATION	GW	GROUND WATER	R	RADIUS
CMP	CORRUGATED METAL PIPE	H/C	HANDICAP	RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE	HDPE	HIGH DENSITY POLYETHYLENE	RPM	REFLECTIVE PAVEMENT MARKER
CTV	CABLE TELEVISION	INV	INVERT	R/W	RIGHT-OF-WAY
DIP	DUCTILE IRON PIPE	K _h	HORIZONTAL PERMEABILITY	SAN	SANITARY
ESMT	EASEMENT	K _v	VERTICAL PERMEABILITY	SH	SEASONAL HIGH
EXIST	EXISTING	KO	KNOCK OUT	SMH	SANITARY MANHOLE
FAC	FLORIDA ADMINISTRATIVE CODE	LF	LINEAL FEET	SJRWMD	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	MB	MAP BOOK	SS	SANITARY SEWER
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	MES	MITERED END SECTION	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
FH	FIRE HYDRANT	MJ	MECHANICAL JOINT	TSB	TEMPORARY SEDIMENT BASIN
FOC	FIBER OPTIC CABLE	N/A	NOT APPLICABLE	TYP	TYPICAL
FF EL	FINISH FLOOR ELEVATION	NIC	NOT IN CONTRACT	UGE	UNDERGROUND ELECTRIC
FP&L	FLORIDA POWER & LIGHT	NGVD	NATIONAL GEODETIC VERTICAL DATUM	UGT	UNDERGROUND
FM	FORCE MAIN	OHE	OVERHEAD ELECTRIC		TELEPHONE
FPD	FEET PER DAY	OR	OFFICIAL RECORD	USACOE	UNITED STATES ARMY CORP OF ENGINEERS
G	GAS	PG	PAGE	W	WATER (POTABLE)
		PSI	POUNDS PER SQUARE INCH		
		PVC	POLYVINYL CHLORIDE		
		PVMT	PAVEMENT		

REVISIONS

DATE	DESCRIPTION

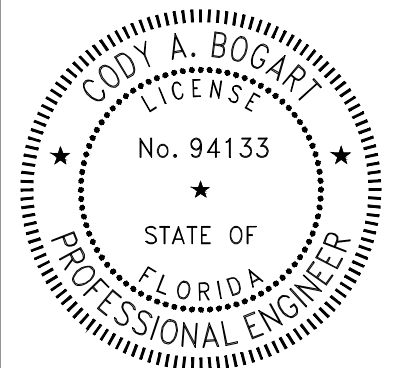
1230 North US1, Suite 3
Ormond Beach, Florida 32174
Phone (386) 872-7794
www.Newkirk-Engineering.com
C.A. # 30209
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DEVELOPMENT INFORMATION
SHORES DEPOT
2616 SOUTH ATLANTIC AVENUE
DAYTONA BEACH SHORES, FL 32118

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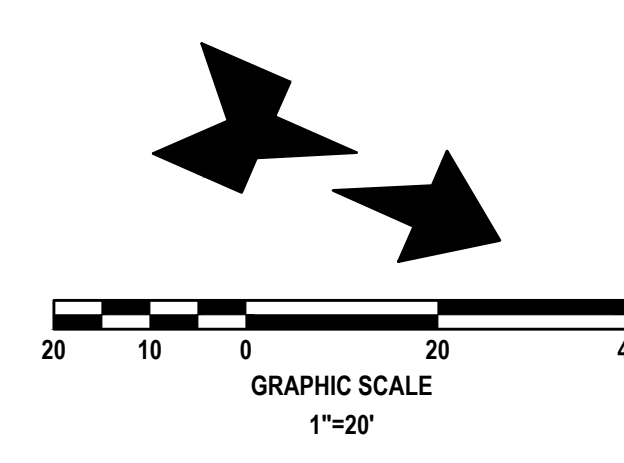


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PROJECT No:	2022-159
DATE:	NOVEMBER 2023
DESIGN BY:	CAB
DRAWN BY:	GAB
CHECKED BY:	HHN
SCALE:	N.T.S.

DRAWING NUMBER

03



BENCHMARK INFORMATION:

- #1 NORTH BOLT FIRE HYDRANT
ELEVATION = 12.96 FEET
- #2 CROSS FOUND IN N RIM OF MANHOLE
ELEVATION = 10.59 FEET
- VERTICAL DATA
ELEVATIONS ARE ON NORTH AMERICAN VERTICAL DATUM OF 1988 BASED ON NATIONAL GEODETIC SURVEY BENCHMARK "K320" (PID AQ1363), HAVING A PUBLISHED ELEVATION OF 16.03 FEET.

DEMOLITION AND SWPPP NOTES:

- ALL EROSION CONTROL DEVICES AND VISIBLE BARRICADES SHALL BE INSTALLED AND APPROVED BY THE ENGINEER PRIOR TO THE START OF CLEARING AND GRUBBING.
- THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY AS SPECIFIED PRIOR TO START OF CONSTRUCTION.
- THE SITE SHALL BE CLEARED AND GRUBBED OF ALL VEGETATION AND DEBRIS WITHIN THE APPROXIMATE LIMITS OF CLEARING AS INDICATED ON THE DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE CITY OF DAYTONA BEACH SHORES UTILITY DEPARTMENT, FLORIDA SUNSHINE AND EMERGENCY SERVICES FOR RESPECTIVE UTILITY LOCATIONS AND "NOTICE" OF CONSTRUCTION ACTIVITY.
- ALL REMOVED MATERIAL SHALL BE HAULED OFF-SITE TO AN APPROVED LANDFILL. TREES MAY BE LOGGED OR MULCHED FOR OFF-SITE DISPOSAL AT THE CONTRACTOR'S DISCRETION.
- ALL EROSION CONTROL DEVICES SHALL BE PLACED PRIOR TO THE START OF WORK AND REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION AND REMOVAL OF DEBRIS AND SILT BEHIND EROSION CONTROL DEVICES.
- ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY INLET PROTECTION MEASURES TO PREVENT SILTATION IN THE DRAINAGE SYSTEM (SEE DETAILS THIS DRAWING). THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
- ALL OFF-SITE AREAS DISTURBED DURING CONSTRUCTION ACTIVITY SHALL BE IMMEDIATELY RESTORED TO PRIOR CONDITION UPON COMPLETION OF WORK.
- SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION, BLOWING SAND AND THE IMPACT TO NEIGHBORING PROPERTIES.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER, CITY A NOT PLAN AT PRECONSTRUCTION MEETING. TRAFFIC SHALL BE ALLOWED TO CONTINUE DURING WORK. PROVIDE MEASURES TO DETOUR TRAFFIC AROUND OPEN EXCAVATION WITH ADEQUATE BARRICADES, SIGNAGE AND FLAGPERSON TO DIRECT TRAFFIC. EMERGENCY SERVICES SHALL BE NOTIFIED 48 HOUR IN ADVANCE.
- EXISTING DRIVEWAYS SHOWN ADJACENT TO OR OUTSIDE LIMITS OF CONSTRUCTION SHALL REMAIN IN-SERVICE. EXISTING UTILITIES AND DRIVEWAYS SHALL NOT BE REMOVED UNLESS OTHERWISE NOTED.
- IF ANY DEWATERING IS TO OCCUR DURING ANY PHASE OF CONSTRUCTION THEN DEWATERING ACTIVITY SHALL ADHERE TO CHAPTER 40C-22 FAC MORE SPECIFICALLY AS FOLLOWS. PER 40C-22.030(3) A "NOTICED GENERAL SHORT-TERM DEWATERING PERMIT" IS REQUIRED "ONLY IF" DEWATERING EXCEEDS 4 MILLION GALLONS PER DAY, EXCEPT DURING THE FIRST 120 HOURS OF DEWATERING WHEN THE DAILY AND INSTANTANEOUS PUMPAGE RATES SHALL NOT EXCEED 6 MILLION GALLONS PER DAY. AVERAGE DAILY WITHDRAWAL SHALL NOT EXCEED 2 MILLION GALLONS PER DAY FOR THE FIRST 60 DAYS OF THE DEWATERING ACTIVITY AND SHALL NOT EXCEED ONE MILLION GALLONS PER DAY OF A 180 DAY DURATION. EACH SPECIFIC DEWATERING PROJECT SHALL NOT EXCEED 180 DAYS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ANY DEWATERING ACTIVITY IS BELOW THE SPECIFIED THRESHOLD. OTHERWISE A PERMIT WILL BE REQUIRED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL FAMILIARIZE ITSELF WITH CHAPTER 40C-22 FAC AND BE SOLELY RESPONSIBLE FOR OBTAINING AND SUBMITTING FORM RDS-50 TO SJRWMD A MINIMUM OF 10 DAYS PRIOR TO ANY DEWATERING ACTIVITY. SUBMITTAL OF FORM RDS-50 IS NOT REQUIRED IF DEWATERING IS 300,000 GALLONS PER DAY OR LESS AND WILL NOT EXCEED 30 DAYS IN DURATION.

EROSION CONTROL NOTES:

- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE SWPPP DURING CONSTRUCTION OPERATIONS.
- NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL DEVICES HAVE BEEN INSTALLED.
- THE CONTRACTOR SHALL POST "NO TRESPASSING" SIGNAGE AT ALL SITE ENTRANCES PRIOR TO CONSTRUCTION.
- MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN AND AT LEAST ONCE A WEEK.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- NO TURBID WATER SHALL BE DISCHARGED OFF-SITE FROM THE DEWATERING OPERATION. CONTRACTOR SHALL TAKE MEASURES TO CONTROL TURBIDITY.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OF NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- PROVIDE DUST CONTROL FOR ALL EARTHWORK OPERATIONS. COVER AREA WITH LIGHT COATING OF WATER OR OTHER APPROVED METHOD.

LAND ALTERATION / TREE PRESERVATION NOTES:

- ALL TREES TO REMAIN MUST BE PROTECTED BY TREE PRESERVATION BARRICADES MEETING THE MINIMUM STANDARDS. PROTECTIVE BARRICADES SHALL REMAIN IN PLACE UNTIL LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED.
- ALL TRIMMING SHALL BE UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- OAK TREES LARGER THAN 36-INCHES AND ABOVE (HISTORIC) PRUNING SHALL BE PERFORMED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE OR A REGISTERED CONSULTING ARBORIST WITH THE AMERICAN SOCIETY OF CONSULTING ARBORISTS. THE ARBORIST SHALL UNDERSTAND THAT THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A300 PRUNING STANDARDS IS A STANDARD OF DIVISION 4.0.
- ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA WHERE INDICATED ON THIS PLAN.

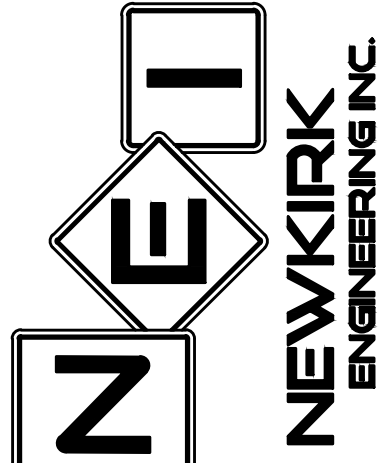
LEGEND:

- PROPOSED SILT FENCE (SEE DETAIL SHEET No. 5)
- ASPHALT PAVEMENT REMOVAL
- PALM 14 PALM TREE TO BE REMOVED (TYPICAL 28 PLACES)
- CEDAR 5 CEDAR TREE TO BE REMOVED (TYPICAL 1 PLACE)

REVISIONS

DATE	DESCRIPTION
11/27/23	CITY COMMENTS
2/20/23	CITY COMMENTS

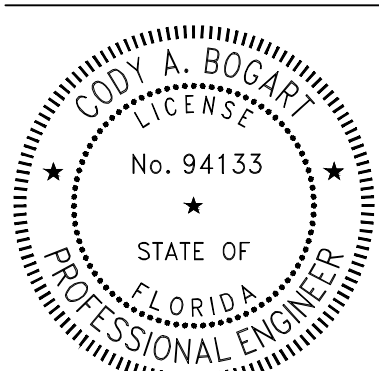
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Ormond Beach, Florida 32174
Phone (386) 872-7794
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DEMOLITION AND SWPPP PLAN
SHORES DEPOT
2616 SOUTH ATLANTIC AVENUE
DAYTONA BEACH SHORES, FL 32118

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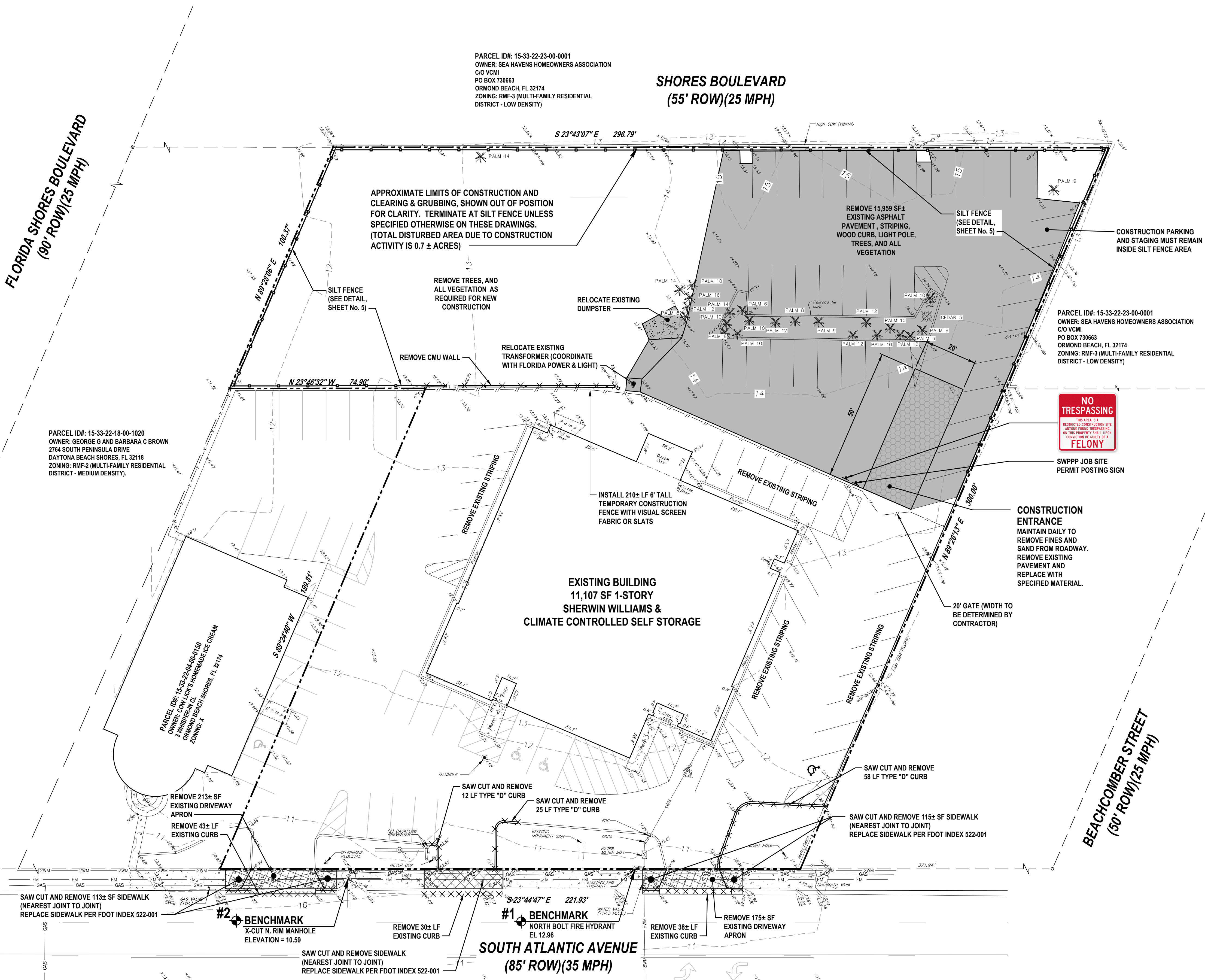
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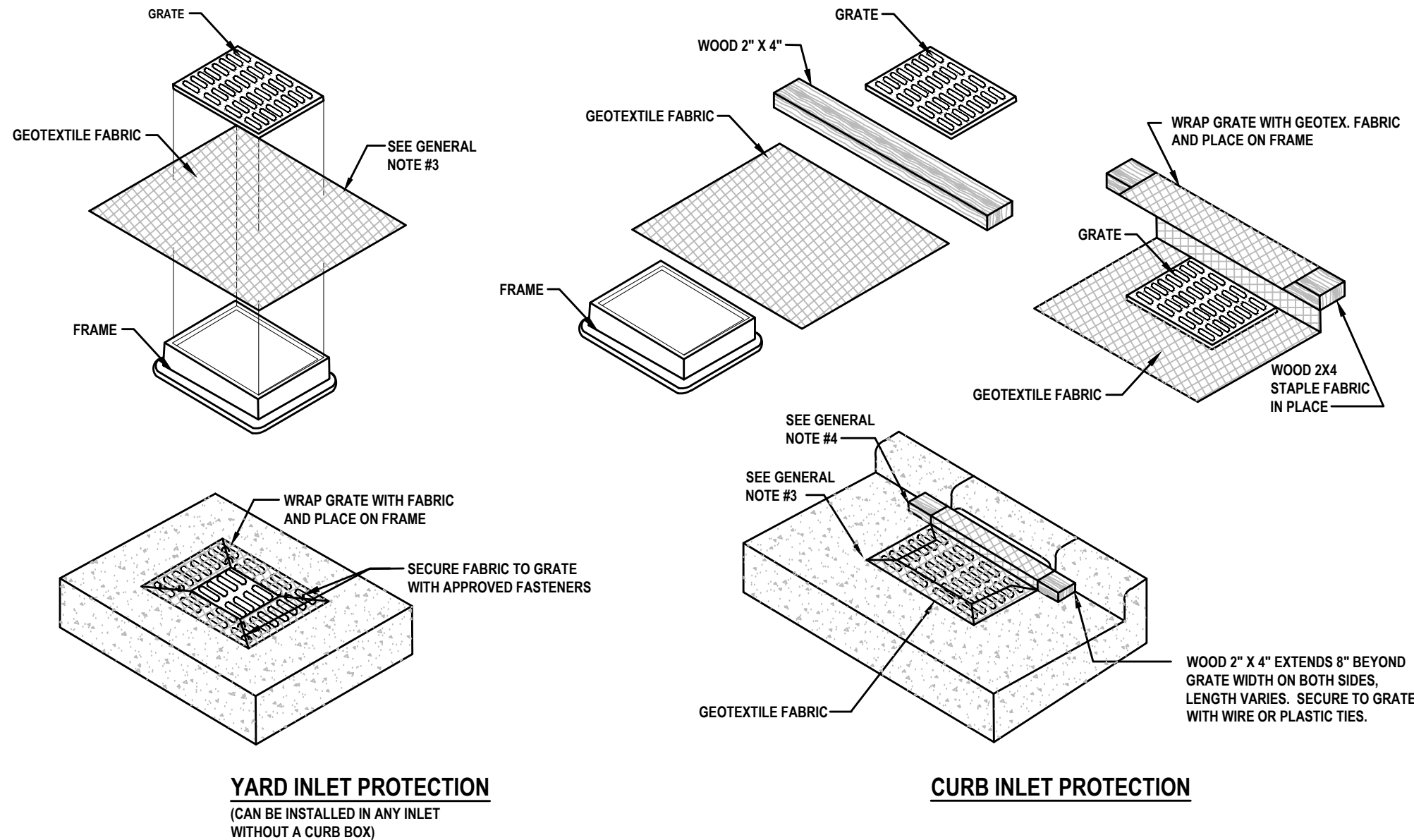
PROJECT No: 2022-159
DATE: NOVEMBER 2023
DESIGN BY: CAB
DRAWN BY: GAB
CHECKED BY: HHN
SCALE: 1"=20'
DRAWING NUMBER

04



WARNING !!
CONTRACTOR SHALL TAKE ALL PRECAUTIONS DURING CONSTRUCTION TO AVOID CONTACT WITH EXISTING UNDERGROUND UTILITIES AND OVERHEAD ELECTRIC IN THE RIGHT-OF-WAY.



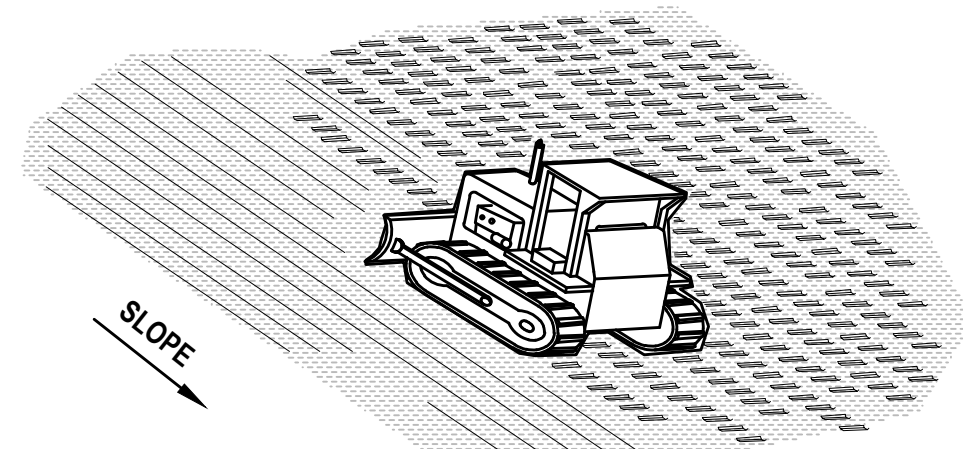


GENERAL NOTES:

1. GEOTEXTILE TO BE MIRAFI FILTERWEAVE 402 OR GEOTEX 111F. ALTERNATIVES INCLUDE APPROVED EQUAL ASTM D4491 OR 100 TO 150 GALLON PER MINUTE PER SQUARE FOOT.
2. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
3. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
4. FOR CURB INLET PROTECTION AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
5. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
6. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS, OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

GEOTEXTILE FABRIC INLET PROTECTION

NOT TO SCALE



NOTE:

USE DOZER TRACKS TO CREATE GROOVES PERPENDICULAR TO THE SLOPE. GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE SEDIMENT IN RUNOFF.

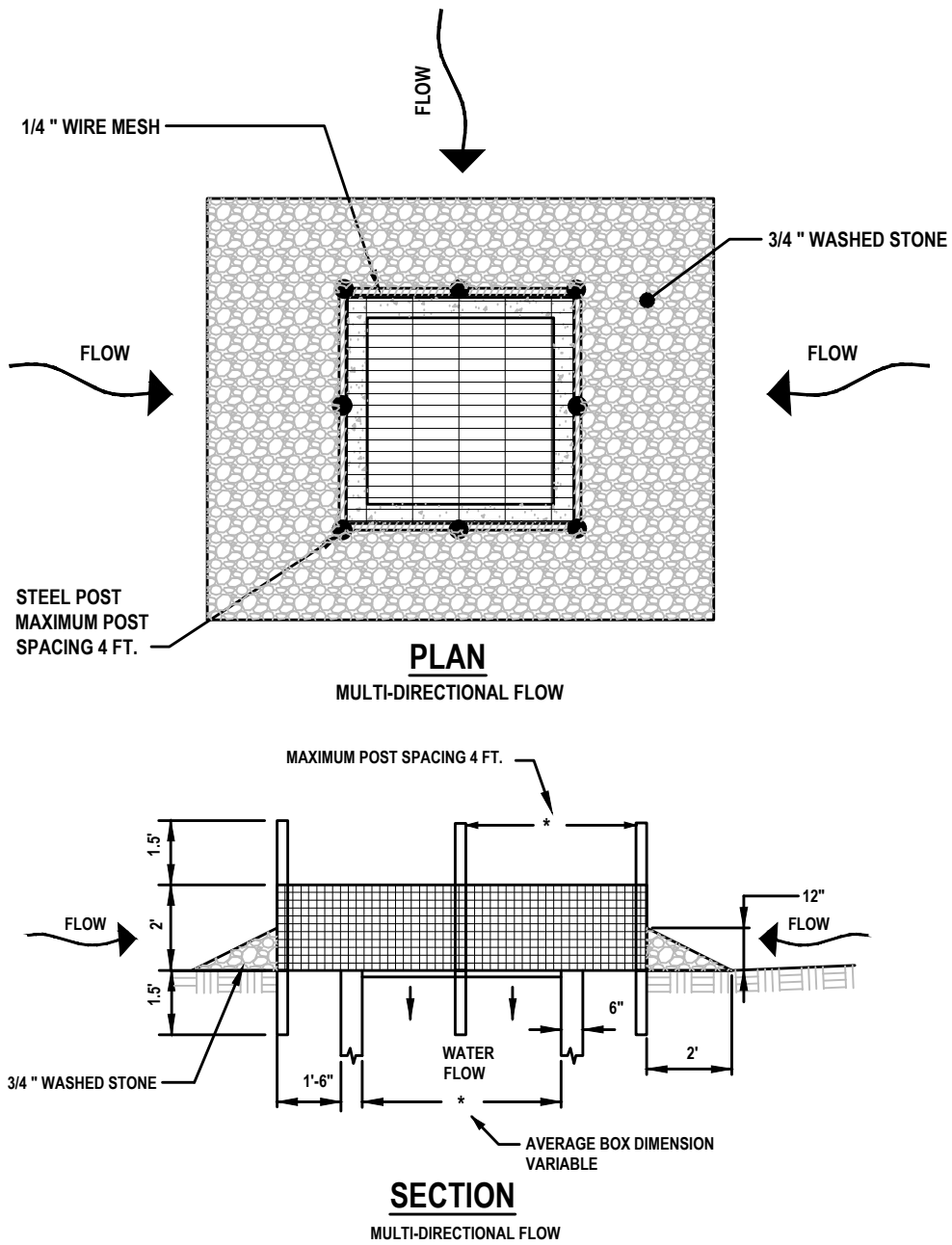
TRACKING DETAIL

NOT TO SCALE

THE FOLLOWING MEASURES REPRESENT MINIMUM STANDARDS TO BE ADHERED TO BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF A PROJECT. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO BE EMPLOYED WHEN WARRANTED BY CONDITIONS AND/OR THE FAILURE OF THE CONTRACTOR TO EMPLOY APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES. FAILURE TO COMPLY WITH THESE PROVISIONS SHALL RESULT IN THE ISSUANCE OF A "STOP WORK ORDER".		
1. NO DISTURBANCE OF PROPOSED CONSERVATION EASEMENTS, NATURAL BUFFERS, OR WATER BODIES IS PERMITTED. THE CONTRACTOR SHALL LOCATE THESE AREAS ON SITE AND BARRICADE THEM TO AVOID ANY UNAUTHORIZED CLEARING, BARRICADES AND OTHER PROTECTIVE FENCING ARE TO BE LOCATED AT THE DRP LINE OF EXISTING NATIVE TREES OR AT THE EDGE OF THE NATIVE UNDER-STORY HABITAT, WHICHEVER IS FURTHER.		
2. SPECIMEN AND HISTORIC TREES, CONSERVATION EASEMENTS, NATURAL VEGETATION BUFFERS, AND SIMILAR AREAS MUST BE PROTECTED BY BARRICADES OR FENCING PRIOR TO CLEARING. BARRICADES ARE TO BE SET AT THE DRP LINE OF THE TREES, AS SPECIFIED, AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. BARBED WIRE IS NOT PERMITTED AS A PROTECTIVE BARRIER.		
3. WHERE A CHANGE OF GRADE OCCURS WITHIN THE DRP LINE OF A SPECIMEN TREE, SILT FENCES WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.		
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION BARRICADES AND EROSION CONTROL DEVICES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING, BEST MANAGEMENT PRACTICES (BMPs) ARE TO BE IMPLEMENTED, SUCH AS TEMPORARY CONSTRUCTION FENCES, SILT FENCES AND FLOATING TURBIDITY BARRIERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES AND MEASURES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE, BUT NOT LIMITED TO, PERIODIC INSPECTION AND REMOVAL OF DEBRIS. ABUTTING EROSION CONTROL DEVICES AS SPECIFICALLY IDENTIFIED IN LDC, CH 10, ARTICLE I, SEC. 5.		
5. PRIOR TO THE INSTALLATION OF ANY FILL MATERIALS ON SUBJECT SITE, SILT FENCES SHALL BE INSTALLED (1) ALONG SUBJECT SITE BOUNDARY AND/OR PROPERTY LINES, (2) AT THE EDGE OF CONSERVATION EASEMENTS AND WETLANDS, (3) ADJACENT TO NATURAL LANDSCAPE BUFFERS, (4) AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES, AND (5) AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THESE CONDITIONS SHALL APPLY IN ALL INSTANCES. WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE AFORESAID LOCATIONS, WHILE THESE FENCES REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO IMPROVE ADDITIONAL PROTECTIVE MEASURES AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE-SPECIFIC AIR-CLIPPING PERMIT APPLICATION AND THROUGHOUT PROJECT CONSTRUCTION.		
6. WHEN FILL MATERIAL IS INTENDED TO BE INSTALLED ADJACENT TO EXISTING VEGETATION WHICH IS INTENDED TO REMAIN NATURAL, THE CONTRACTOR MAY INSTALL SILT FENCING AS A TREE PROTECTION MEASURE. IN LIEU OF INSTALLING WOOD BRACING WITH ORANGE MESH, THIS PRACTICE IS ENCOURAGED BY THE CITY. IF THE SILT FENCE FAILS TO PROVIDE ADEQUATE PROTECTION FROM IMPACT DUE TO CONSTRUCTION, THEN BARRICADES OR WOOD BRACING SHALL BE REQUIRED.		
7. AT A MINIMUM, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. SUFFICIENT GRASS COVERAGE IS TO BE ESTABLISHED WITHIN TWO WEEKS.		
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE WITHIN SEVEN (7) DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE OR INACTIVITY IN CONSTRUCTION. THE CONTRACTOR SHALL INSTALL SEED AND MULCH OR SOIL, AS REQUIRED.		
FILE NAME: M3.DWG DETAIL REF: M-3 REV. 12/18		STANDARD CONSTRUCTION DETAIL CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION REV. 12/18

9. FOR INDIVIDUAL CONSTRUCTION PROJECTS INVOLVING MULTIPLE PHASES, (PHASING IS REQUIRED FOR SITES 30 ACRES AND LARGER) UPON COMPLETION OF EACH PHASE OF THE PROJECT, SEEDING AND MULCHING AND / OR SOILING IS TO BE PERFORMED PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION.		
10. ONCE AN AREA IS SEEDS OR SOILED, IT MUST BE MAINTAINED BY THE CONTRACTOR TO ALLOW THE GRASS TO BECOME ESTABLISHED. IF THE GRASS IS NOT ESTABLISHED WITHIN TWO WEEKS THE CITY MAY REQUIRE THE CONTRACTOR TO RE-SEED OR A NON-VEGETATIVE OPTION MAY BE EMPLOYED.		
11. ANY BURNING OF CLEARED MATERIALS MUST BE INSPECTED AND PERMITTED ON A DAILY BASIS. CONTACT THE FIRE MARSHAL AT 506-5505 PRIOR TO EACH DAY OF DESIRED BURNING.		
12. ABSOLUTELY NO BURNING OF CLEARED MATERIALS IS PERMITTED.		
13. THE REMOVAL OF ALL VEGETATION AND TOPSOIL ON THE FUTURE ROADWAY, PARKING AND BUILDING LOT AREAS IS REQUIRED TO BE COMPLETED PRIOR TO THE PLACEMENT OF FILL ON THOSE AREAS. THE TOPSOIL MAY BE TEMPORARILY STOCKPILED AND USED AS TOPSOIL OVER PROPOSED GREEN AREAS SUCH AS PLANT BEDS, SOILED AREAS, AND WHERE TREES ARE TO BE INSTALLED OR RELOCATED.		
14. A SIGNED, DATED, AND SEALED LETTER FROM A SOILS ENGINEER OR THE ENGINEER OF RECORD CERTIFYING THAT THE AREAS TO BE FILLED HAVE BEEN STRIPPED OF ORGANIC MATERIALS, MUST BE SUBMITTED TO THE CITY PRIOR TO FILLING.		
15. FILL MATERIAL IS TO BE PLACED IN ONE FOOT MAXIMUM LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (95% FOR PAVED AREAS AND 95% FOR BUILDING PADS AND ALL OTHER AREAS AS PER AASHTO 1-180).		
16. DURING SUBDIVISION DEVELOPMENT WHEN FUTURE BUILDING LOTS ARE FILLED AS PART OF THE OVERALL SUBDIVISION IMPROVEMENTS, COMPACTION TEST REPORTS MUST BE PERFORMED ON THE BUILDING LOTS AT 300 FOOT INTERVALS. THESE TESTS ARE TO BE PERFORMED IN ONE-FOOT VERTICAL INCREMENTS. THE RESULTS OF THESE TESTS ARE TO BE SUBMITTED TO THE CITY UPON COMPLETION OF THE TESTS.		
17. IF ANY MUCK MATERIAL IS DISCOVERED, IT SHALL BE REQUIRED TO BE REMOVED AND REPLACED WITH A SUITABLE MATERIAL THAT IS PROPERLY BACKFILLED, COMPACTED AND TESTED USING AASHTO 1-180 MODIFIED PROCTOR METHOD.		
18. STOCKPILING IS NOT GENERALLY PERMITTED BY THE CITY. WHEN ALLOWED, STOCKPILES SHALL NOT EXCEED 16 FEET IN HEIGHT MEASURED FROM THE ORIGINAL GRADE. AT A MINIMUM, STOCK PILES THAT WILL REMAIN IN PLACE IN EXCESS OF TWENTY DAYS SHOULD BE SEEDS AND MULCHED IMMEDIATELY UPON PLACEMENT OF THE FINAL LIFT.		
19. SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND TO INCORPORATE COMMUNITARIAN COMMENTS (LATEST EDITION). METHODS SHOULD BE EMPLOYED TO ALLOW DAILY COVERAGE OF THE ENTIRE LIMITS OF ALL AREAS THAT DO NOT HAVE AN ESTABLISHED VEGETATIVE COVER. METHODS TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, WATER TRUCKS, PERMANENT IRRIGATION SYSTEMS, TEMPORARY SPRINKLER SYSTEMS OPERATED BY PUMPING UNITS CONNECTED TO WET RETENTION POND, WATER CANNONS, TEMPORARY IRRIGATION SYSTEMS MOUNTED ATOP STOCKPILE AREAS, AND OTHER METHODS AS DEEMED NECESSARY BY THE CITY.		
20. ALL FILL MATERIALS LOCATED BENEATH STRUCTURES AND PAVEMENT SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANICS AND SIMILAR MATERIAL THAT COULD COMPOSE.		
21. ALL FILL TO BE PLACED IN LANDSCAPED AREAS SHALL HAVE A PH RANGE BETWEEN 5.5 AND 7.5. BE ORGANIC IN NATURE, FREE OF ROCKS AND DEBRIS, OR MATCH NATIVE EXISTING SOILS.		
FILE NAME: M3.DWG DETAIL REF: M-3.1 REV. 12/18		STANDARD CONSTRUCTION DETAIL CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION (CONTINUED) REV. 12/18

SET POST AND EXCAVATE A TRENCH MINIMUM 12" DEEP		
ATTACH FILTER FABRIC TO POST ALLOWING 1 FT EXTENSION INTO THE TRENCH AS SHOWN		
BACKFILL AND COMPACT EXCAVATED SOIL		
SILT FENCE DETAIL		
NOTES:		
1. MATERIALS, CONSTRUCTION METHODS AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (LATEST EDITION).		
2. CONTRACTOR SHALL PROVIDE SILT FENCES OR HAVE BEST MANAGEMENT PRACTICES IMPLEMENTED AS REQUIRED AT ALL STORMWATER DISCHARGE POINTS FOR EROSION CONTROL AND SEDIMENT CONTROL DURING CONSTRUCTION.		
3. CONTRACTOR SHALL ROUGH GRADE STORMWATER SWALES AND RETENTION AREAS PRIOR TO CONSTRUCTION OF SITE IMPROVEMENTS.		
4. CONTRACTOR SHALL MEET ALL PERMIT CONDITIONS AS ESTABLISHED BY THE CITY OF PORT ORANGE AND ALL OTHER APPLICABLE AGENCIES, INCLUDING BUT NOT LIMITED TO COUNTY, FOOT, AND THE SURROUND.		
5. CONTRACTOR WILL BE ALLOWED TO USE A SMALL PIECE OF EQUIPMENT UP TO 6" WIDTH AND 1.5 TON WEIGHT, TO CLEAR A NARROW PATH TO INSTALL THE SILT FENCE.		
FILE NAME: M23.DWG DETAIL REF: M-23 REV. 12/18		STANDARD CONSTRUCTION DETAIL SILT FENCE TURBIDITY BARRIER REV. 12/18

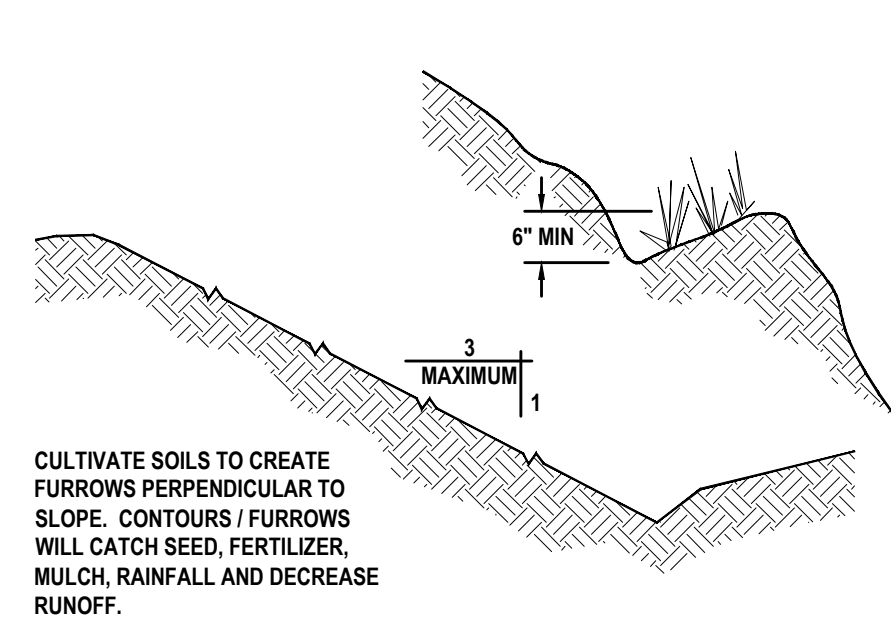


NOTE:

1. SEDIMENT CONTROL STONE SHALL BE 3/4" WASHED STONE.
2. WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE 1/4" INCH MESH
3. TOP OF WIRE MESH SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
4. STEEL POST SHALL BE 5 FT. IN LENGTH, BE INSTALLED 1.5 FT. DEEP MINIMUM, AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
5. WOOD POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED TO 1.5 FT. DEEP MINIMUM, AND BE 3 INCHES IN DIAMETER.
6. POST SPACING SHALL BE A MAXIMUM OF 4 FT.

HARDWARE CLOTH INLET PROTECTION

NOT TO SCALE



SURFACE ROUGHENING

(NOT TO SCALE)

TEMPORARY SEEDING SPECIFICATION:

GENERAL

SEEDING CAN BE USED FOR TEMPORARY STABILIZATION. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED. AREAS WHERE FINAL GRADING HAS BEEN COMPLETED FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY SEEDED. TEMPORARY SEED MIXTURE IS SPECIFIED BELOW.

SEEDING MIXTURES

SEED MIXTURE SHALL BE BERMUDA COMMON 90 LB PURE LIVE SEED PER ACRE, FIBER 2000 LB PER ACRE, STABILIZER 120 LB PER ACRE AND FERTILIZER 300 LB PER ACRE.

ALL SLOPES AND FLAT GRADE

APPLY 6:20:20 COMMERCIAL ORGANIC FERTILIZER AT A RATE OF 300 LB PER ACRE AND SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

TEMPORARY SEEDING PLANTING DATES	SEED VARIETY	APPLICATION RATE
APRIL 15 - OCTOBER 15	PENSACOLA BAHIA (SCARIFIED) BERMUDA COMMON (50% HULLED)	90 25
OCTOBER 16 - APRIL 14	PENSACOLA BAHIA (SCARIFIED) BERMUDA COMMON (50% HULLED) ANNUAL RYE GRASS RYE GRAIN	100 35 10 30

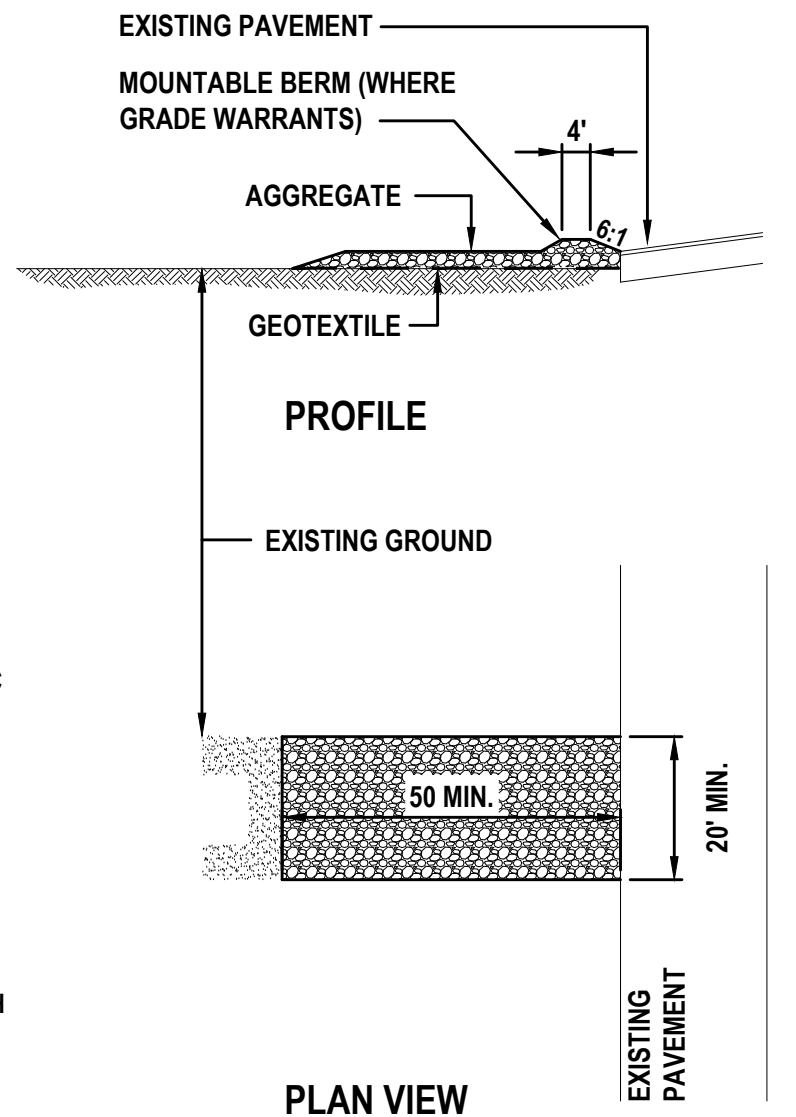
MULCH SEEDED AREA WITH 2 TONS PER ACRE CLEAN GRAIN STRAW. ANCHOR STRAW WITH HYDRAULIC WOOD FIBER MULCH AT THE RATE OF 1000 LB PER ACRE, OR 150-200 POUNDS OF ORGANIC MULCH TACKIFIER PER ACRE, OR USE NETTING.

HYDRO FIBER MULCH MIXTURE SHALL BE PERFORMED IN A TANK WITH A CONTINUOUS AGITATION AND RECIRCULATION SYSTEM WITH SUFFICIENT OPERATING CAPACITY TO PRODUCE A HOMOGENOUS SLURRY AND DISCHARGE SYSTEM WHICH WILL APPLY THE SLURRY AT A CONTINUOUS AND UNIFORM RATE. MIXTURE SHALL CONTAIN A GREEN FUGITIVE DYE AS AN APPLICATION INDICATOR.

1. STONE SIZE - #2 COARSE AGGREGATE, OR RECLAIMED/RECYCLED CONCRETE.
2. LENGTH - AS EFFECTIVE BUT NOT LESS THAN 50'
3. DEPTH - 8" MINIMUM (COMPACTED)
4. WIDTH - 8" MINIMUM
5. GEOTEXTILE - 100% POLYPROPYLENE, 4 OZ/SY OVER THE ENTIRE AREA PRIOR TO PLACEMENT OF AGGREGATE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 6:1 SLOPES IS ACCEPTABLE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. MAINTAIN PERIODIC TOP DRESSING OF ADDITIONAL AGGREGATE AS CONDITIONS REQUIRE AND REPAIR AND/OR CLEANOUT ANY AREAS USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT POND OR SWALE.
9. INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN OR WEEKLY AT A MINIMUM.

CONSTRUCTION ENTRANCE DETAIL

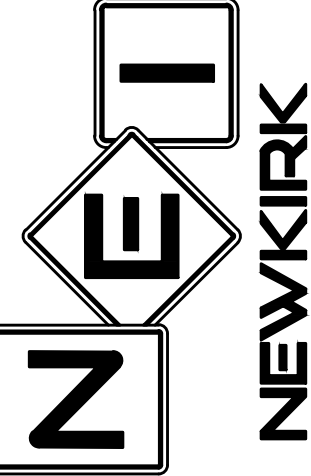
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REVISIONS

DATE	DESCRIPTION

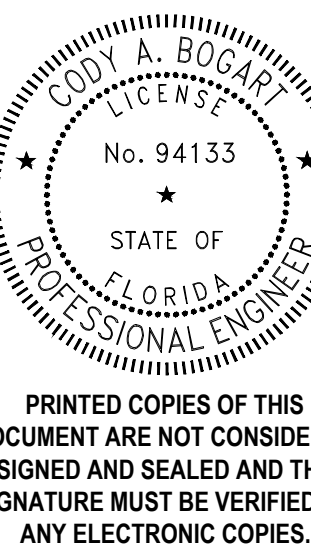
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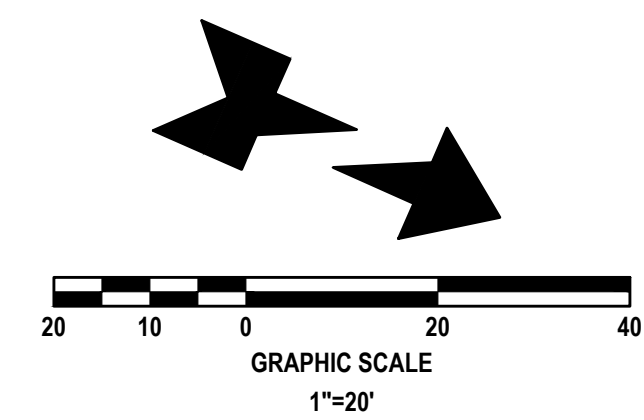
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PROJECT No:	2022-159
DATE:	NOVEMBER 2023
DESIGN BY:	CAB
DRAWN BY:	GAB
CHECKED BY:	HHN
SCALE:	N.T.S.
DRAWING NUMBER	05



LEGEND

- TYPE "D" CURB
SEE DETAIL, SHEET 13
- TRANSITION, PROPOSED TYPE
"D" CURB TO EXISTING CURB
- 24" DETECTABLE WARNING MAT

STRIPING KEYNOTES:

- 1 6" SOLID WHITE LINE
- 2 6" SOLID DOUBLE YELLOW LINE
- 3 6" SOLID WHITE LINE, 4" O.C. @ 45°
- 4 24" WHITE STOP BAR
- 5 WHITE DIRECTIONAL ARROW
- 6 STANDARD EMPHASIS CROSSWALK
- 7 24" DETECTABLE WARNING MAT PER FOOT INDEX 522-002

PAVING LEGEND

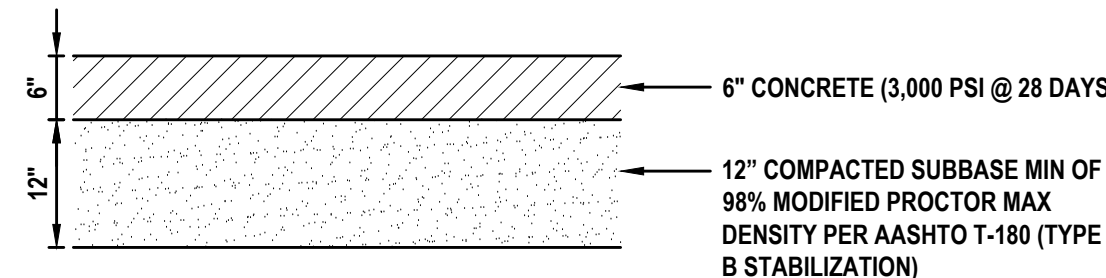
- ASPHALT PAVEMENT
 - 1.5" SP-9.5 (TL-C) WITH TACK COAT PER FOOT SPECIFICATIONS
 - 6" CRUSHED CONCRETE (LBR+130) MIN OF 98% MODIFIED PROCTOR MAX DENSITY PER AASHTO T-180 (4" MAX. LIFTS)
 - 12" STABILIZED SUBBASE (BR 40) MIN OF 98% MODIFIED PROCTOR MAX DENSITY PER AASHTO T-180 (TYPE B STABILIZATION)
 - *ALTERNATE 12" STABILIZED SUBBASE: 6" CRUSHED CONCRETE (LBR+130) MIN OF 98% MODIFIED PROCTOR MAX DENSITY PER AASHTO T-180 (4" MAX. LIFTS)
 - *ALTERNATE PAVEMENT TO ASPHALT IS CONCRETE PAVEMENT
- ASPHALT SEALCOAT
 - ASPHALT EMULSION SEAL COAT PER MANUFACTURER'S SPECIFICATIONS (ALL EXISTING ASPHALT PAVEMENT)
- CONCRETE PAVEMENT
 - 6" CONCRETE (4,000 P.S.I. @ 28 DAYS)
 - 12" STABILIZED SUBGRADE (LBR 40) MIN OF 98% MODIFIED PROCTOR MAX DRY DENSITY PER ASTM D1557, AASHTO T-180 (6" LIFTS) SEE DETAIL SHEET No. 13
- CONCRETE SIDEWALK
 - 4" THICK CONCRETE (3,000 P.S.I. @ 28 DAYS) SEE SIDEWALK DETAIL SHEET No. 13
- FDOT ROW CONCRETE
 - 6" CONCRETE (3,000 PSI @ 28 DAYS)
 - 12" COMPACTED SUBBASE MIN OF 98% MODIFIED PROCTOR MAX DENSITY PER AASHTO T-180 (TYPE B STABILIZATION)

GENERAL NOTES:

- CITY OF DAYTONA BEACH SHORES BUILDING PERMITS ARE REQUIRED FOR BUILDING, DUMPSTER ENCLOSURE, LIGHT POLES, SCREEN WALLS AND MONUMENT SIGNS. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING APPROPRIATE INFORMATION (ENGINEERING, SPECIFICATIONS, SHOP DRAWINGS, ETC.).
- ALL DIMENSIONS AND TIES ARE TO THE EDGE OF PAVEMENT AND OUTSIDE FACE OF BUILDING.
- ALL IMPROVEMENTS SHALL BE STAKED FOR CONSTRUCTION BY MEANS OF DIGITAL COORDINATES BY SURVEYOR UTILIZING GEODETIC TOTAL STATION OR GPS. SCALING OF DRAWINGS FOR PURPOSES OF STAKING ARE AT THE SURVEYOR'S RISK.
- THE CONTRACTOR SHALL COORDINATE WITH THE EXISTING ADJACENT BUSINESSES TO ENSURE THERE IS NO DISRUPTION TO THEIR RESPECTIVE OPERATIONS.
- THE CONTRACTOR AT ITS OWN DISCRETION SHALL MAINTAIN THE CONSTRUCTION SITE SECURE FROM TRESPASS.
- SOD ALL DISTURBED AREAS IN RIGHT-OF-WAY WITH BAHIA SOD.
- ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS (INDEXES), THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.

PAVEMENT MARKING NOTES:

- PAINTED PAVEMENT MARKINGS SHALL BE APPLIED AFTER PAVEMENT SURFACE HAS CURED. SURFACE SHALL BE FREE OF FINE SAND AND DEBRIS PRIOR TO APPLICATIONS.
- APPLY PAINTED PAVEMENT MARKINGS AT LAST STAGE OF CONSTRUCTION AFTER LANDSCAPE PLANTINGS ARE INSTALLED.
- PAINT SHALL BE SHERWIN WILLIAMS LOW-VOC ACRYLIC PRO PARK PAINT, APPLY PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DRAWINGS FOR LOCATIONS OF SPECIFIC COLORS.
- ALL REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED IN ACCORDANCE WITH FOOT STANDARD INDEX NO. 706-001.
- ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH INDEX NO. 17301 AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- LOCATION OF SIGNS IS APPROXIMATE ONLY AND IS SUBJECT TO CHANGE AS DIRECTED BY THE ENGINEER.
- FOR ADDITIONAL DETAILS SEE INDEX NO. 700-010, 700-101, 17344 AND 711-001.
- ALL TRAFFIC CONTROL SIGNS SHALL BE FABRICATED USING 3M BRAND "SCOTCHLITE" SHEETING (ENGINEER GRADE) ON MINIMUM .08 GA ALUMINUM BLANKS. ALL 36"x48" SIGNS SHALL BE .100 GA MINIMUM AND SHALL BE INSTALLED USING 3"x12" ROUND ALUMINUM POST. ALL STOP SIGNS SHALL BE 36" OCTAGON INSTALLED ON 12.3 LBS/FT "U" CHANNEL POST RAIL STEEL ONLY OR 3"x12" ROUND ALUMINUM POSTS. "U" CHANNEL POSTS MAY BE USED FOR SIGNS SMALLER THAN 36"x36". ALL SPEED LIMIT SIGNS SHALL BE 24"x30".



CONCRETE SECTION (S. ATLANTIC AVE DRIVEWAY)

NOT TO SCALE

PROPERTY INFORMATION	
EXISTING-FLU	TOC
PROPOSED-FLU	TOC
EXISTING-ZONING	GC-RD
PROPOSED-ZONING	GC-RD
FLOODZONE	X
BUILDING USES	MINI-WAREHOUSE & COMMERCIAL

REQUIRED SETBACKS - EXISTING ZONING (FT)		
	BUILDING	LANDSCAPE
FRONT (EAST)	20	10
REAR (WEST)	20	10
SIDE (NORTH)	20	10
SIDE (SOUTH)	10	10

PROVIDED SETBACKS - PROPOSED ZONING (FT)		
	BUILDING	LANDSCAPE
FRONT (EAST)	20	20
REAR (WEST)	20	10
SIDE (NORTH)	20	10
SIDE (SOUTH)	29.8	10

*SEE SPECIAL EXCEPTION FOR ADDL REQUIREMENTS

DIMENSIONAL REQUIREMENTS - GC-RD			
	REQ	PROV	
MAX. BUILDING HEIGHT	35 FT	32 FT	
MIN. GREEN AREA	10%	24.2%	
MAX. BUILDING COVERAGE	35%	34.6%	

*SEE SPECIAL EXCEPTION FOR ADDL REQUIREMENTS

EXISTING SITE COVERAGE			
AREA TYPE	SF	ACRE	% OF SITE
BUILDING	11,107	0.255	16.3%
ASPHALT PAVEMENT	37,739	0.866	55.4%
CONCRETE / SIDEWALKS	288	0.007	0.4%
GREEN SPACE	19,001	0.436	27.9%
TOTAL SITE	68,135	1.564	100.0%
TOTAL IMPERVIOUS	49,134	1.128	72.1%
TOTAL OPEN SPACE	19,001	0.436	27.9%

PROPOSED SITE COVERAGE			
AREA TYPE	SF	ACRE	% OF SITE
BUILDING	23,557	0.541	34.6%
ASPHALT PAVEMENT	25,760	0.591	37.8%
CONCRETE / SIDEWALKS	2,327	0.053	3.4%
GREEN SPACE	16,491	0.379	24.2%
TOTAL SITE	68,135	1.564	100.0%
TOTAL IMPERVIOUS	51,644	1.186	75.8%
TOTAL OPEN SPACE	16,491	0.379	24.2%

LDC PARKING REQUIREMENTS				
BUILDING USE	A. SF	B. SPACES	C. PER SF	D. REQ. SPACES
MINI-WAREHOUSE (SF)	42,122	1	6,000	8
SHERWIN WILLIAMS (SF)	5,089	1	250	21
TOTAL REQUIRED SPACES				29
TOTAL REQUIRED ADA SPACES				2

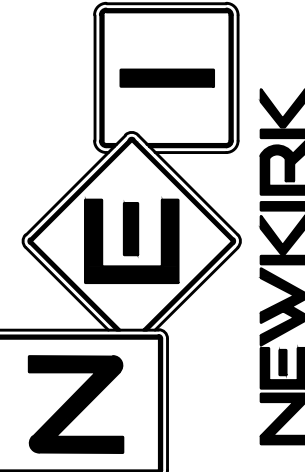
EXISTING PARKING		%	PROV. SPACES
EXISTING STANDARD SPACES		95%	71
EXISTING ADA SPACES		5%	4
TOTAL EXISTING SPACES			75
PROPOSED PARKING		%	PROV. SPACES
PROPOSED STANDARD SPACES		89%	31
PROPOSED ADA SPACES		11%	4
TOTAL PROPOSED SPACES*			35

*ITE PARKING GENERATION 4TH EDITION ANTICIPATES 52 SPACES OCCUPIED AT PEAK PERIOD FOR THE DEMAND SHOWN ABOVE. REFER TO PARKING LETTER SUBMITTED.

REVISIONS

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1230 North US1, Suite 3
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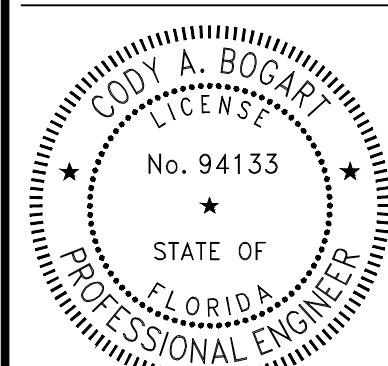
SITE LAYOUT PLAN

SHORES DEPOT

2616 SOUTH ATLANTIC AVENUE
DAYTONA BEACH SHORES, FL 32118

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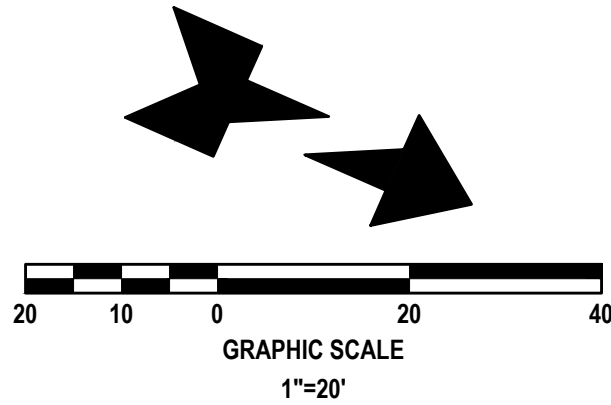
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DATE: NOVEMBER 2023
DESIGN BY: CAB
DRAWN BY: GAB
CHECKED BY: HHN
SCALE: 1"=20'
DRAWING NUMBER

06



SUMMARY OF DRAINAGE:

PERMITTED RUNOFF			OFF-E		OFF-S	
Design Storm	Rainfall (inches)	Charge Rate (cfs)	Inflow Volume (ft³)	Charge Rate (cfs)	Inflow Volume (ft³)	
Mean Annual, 24-Hour	PRE	5.00	3.80	21,103	0.41	2,512
25 Year, 24-Hour	PRE	9.00	6.92	38,348	1.05	6,030
100 Year, 24-Hour	PRE	10.60	8.19	45,320	1.41	7,743

PROPOSED DISCHARGE			OFF-E		OFF-S	
Design Storm	Rainfall (inches)	Inflow Rate (cfs)	Inflow Volume (ft³)	Inflow Rate (cfs)	Inflow Volume (ft³)	
Mean Annual, 24-Hour	POST	5.00	3.28	18,305	0.40	2,380
25 Year, 24-Hour	POST	9.00	6.73	36,196	0.95	5,137
100 Year, 24-Hour	POST	10.60	8.18	43,723	1.20	6,369

GRADING LEGEND:

- BS— EXISTING CONTOUR
- BS— PROPOSED CONTOUR
- DRAINAGE FLOW ARROW
- +100.0 EXISTING SPOT ELEVATION
- ⊕ 32.00 PROPOSED SPOT ELEVATION

BENCHMARK INFORMATION:

- #1 NORTH BOLT FIRE HYDRANT ELEVATION = 12.96 FEET
 - #2 CROSS FOUND IN N RIM OF MANHOLE ELEVATION = 10.59 FEET
- VERTICAL DATA
ELEVATIONS ARE ON NORTH AMERICAN VERTICAL DATUM OF 1988 BASED ON NATIONAL GEODETIC SURVEY BENCHMARK "K320" (PID AQ1363), HAVING A PUBLISHED ELEVATION OF 16.03 FEET.

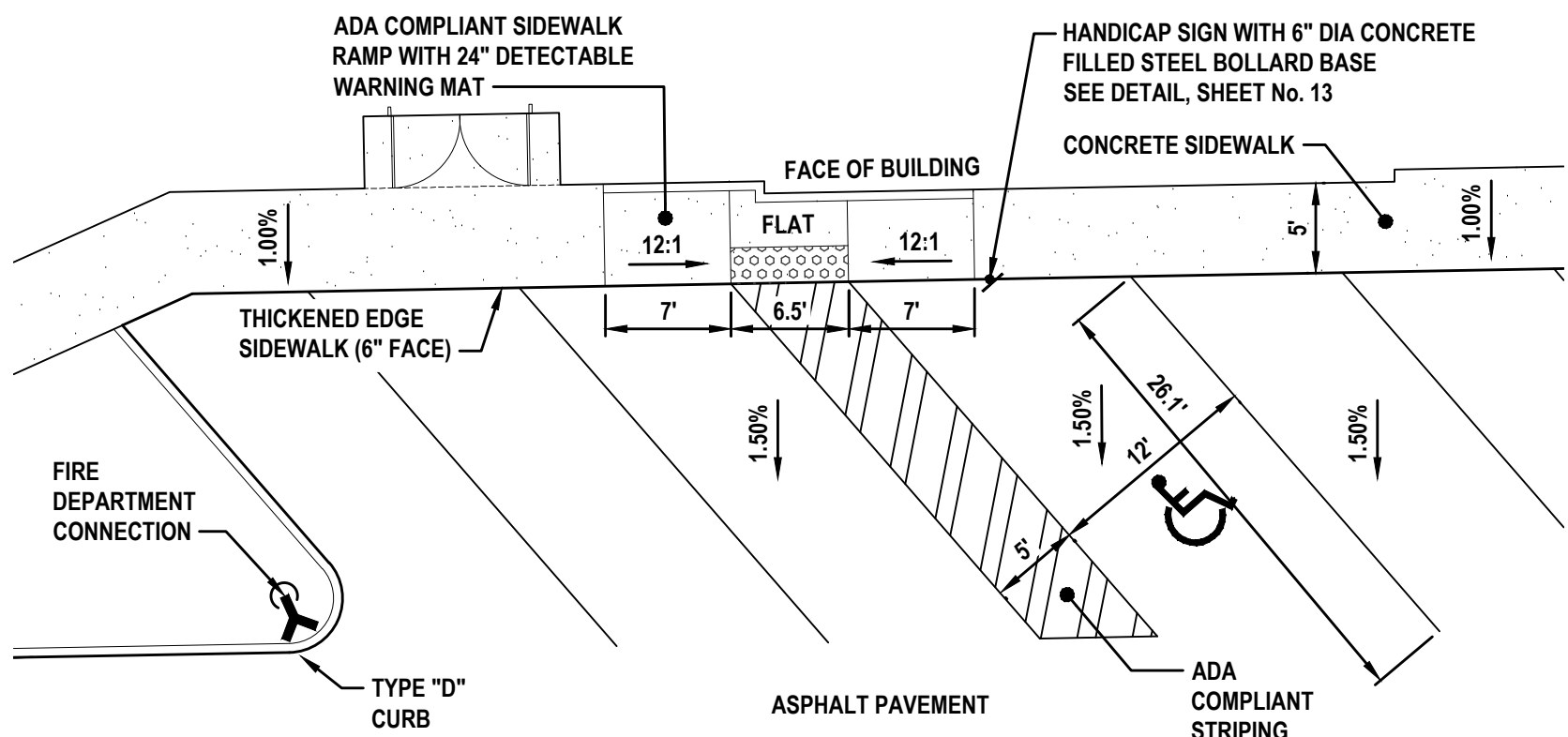
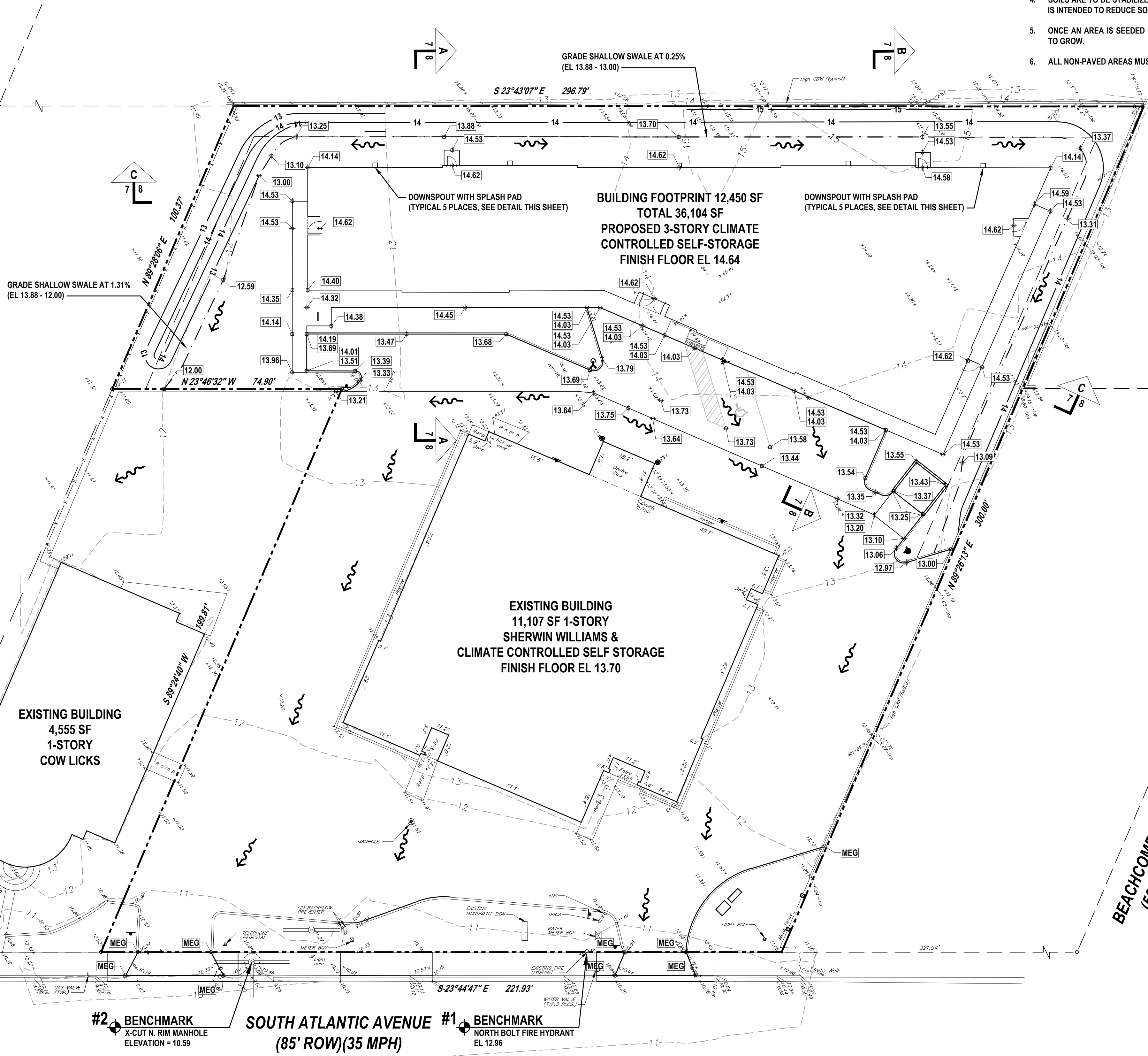
GENERAL GRADING NOTES:

- CROSS SLOPES OF ACCESSIBLE PARKING SPACES AND ACCESS AISLE SHALL NOT EXCEED 1:48 IN ACCORDANCE WITH SECTION 502.4 OF FACBC.
 - THE MAXIMUM ELEVATION CHANGE AT THE ENTRANCE DOOR MAY NOT EXCEED 1/2 INCH.
 - ALL SIDEWALK LANDINGS SHALL HAVE SLOPES NO GREATER THAN 1/8 INCH / 1 FOOT IN MANEUVERING SPACES AT ALL DOORWAYS.
 - ALL SIDEWALKS SHALL HAVE A 1 PERCENT CROSS SLOPE.
 - ALL IMPROVEMENTS SHALL BE STAKED FOR CONSTRUCTION BY MEANS OF DIGITAL COORDINATES BY SURVEY OR UTILIZING GEODETIC TOTAL STATION. SCALING OF DRAWINGS FOR PURPOSES OF STAKING ARE AT THE SURVEYOR.
- GENERAL EARTHWORK NOTES:
- IF ANY MUCK OR MUCK-LIKE MATERIAL IS DISCOVERED, IT WILL BE REQUIRED TO BE REMOVED, BACKFILLED WITH APPROPRIATE FILL, COMPACTED, AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.
 - ALL FILLING IS TO BE PERFORMED IN ONE-FOOT LIFTS. THE COMPACTION REQUIREMENT IS 98% FOR PAVED AREAS AND 95% FOR UNPAVED AREAS PER AASHTO T-180 MODIFIED PROCTOR TEST.
 - TEMPORARY FILL STOCKPILING IS NOT PERMITTED IN LIFTS GREATER THAN SIX FEET.
 - SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND THE IMPACT TO NEIGHBORING COMMUNITIES.
 - ONCE AN AREA IS SEEDS OR SODDED, IT MUST BE MAINTAINED TO ALLOW THE GRASS TO GROW.
 - ALL NON-PAVED AREAS MUST BE PLANTED, GRASSED, OR MULCHED.

GENERAL DRAINAGE NOTES:

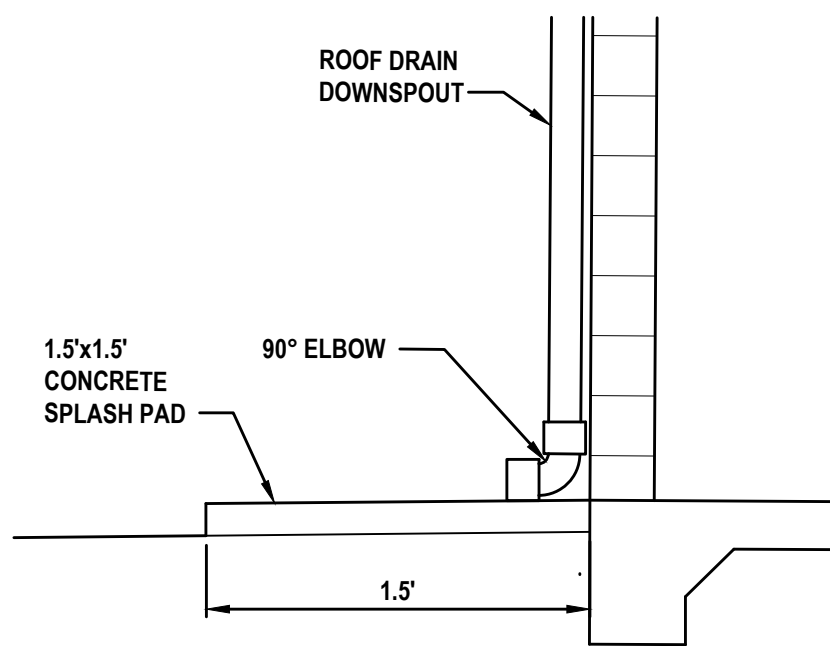
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO DRAINAGE SYSTEM AND SHALL RESTORE ANY DAMAGED STRUCTURES.
- ALL PIPE FROM THE BUILDING DRAINS SHALL BE SMOOTH INTERIOR CORRUGATED EXTERIOR (SIC) HDPE OR PVC SCH 40.
- ALL STORM PIPE SHALL BE CONSTRUCTED OF HDPE (SIC) PIPE WITH CERTIFIED WATERTIGHT JOINTS BY THE MANUFACTURER. ACCEPTABLE HDPE PIPE SHALL BE HANCOR SUR-LOK WT, ADS SERIES 35, ADS N-12 WITH WT JOINT OR EQUAL.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MATERIAL AND STRUCTURES TO THE ENGINEER (NEWKIRK ENGINEERING, INC.) FOR APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING.
- CONTRACTOR TO PLACE FILTER FABRIC BETWEEN DRAINAGE STRUCTURES AND TOPS TO PREVENT SOIL INTRUSION. THE FABRIC SHALL BE PERIODICALLY CLEANED OF SAND A DEBRIS FABRIC SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE.
- ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING TREES, & ETC., WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFFSITE.
- ALL DRAINAGE STRUCTURES SHALL BE PRE-CAST PER FDOT SPECIFICATIONS.
- ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY PER FDOT STANDARD SPECIFICATIONS AND MANUFACTURES SPECIFICATIONS RESPECTIVELY.
- ALL DRAINAGE STRUCTURES AND PIPES SHALL BE CLEANED OF SAND AT THE LAST STAGE OF CONSTRUCTION PRIOR TO THE FINAL INSPECTION.
- ALL STORM INLET GRATES SHALL BE STEEL (TRAFFIC RATED).

FLORIDA SHORES BOULEVARD
(90' ROW)(25 MPH)



HANDICAP PARKING DETAIL

NOT TO SCALE



ROOF DRAIN DETAIL

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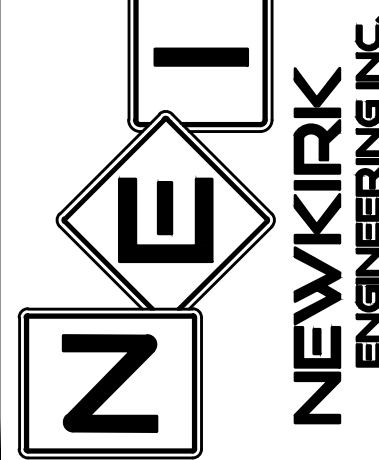


WARNING !!
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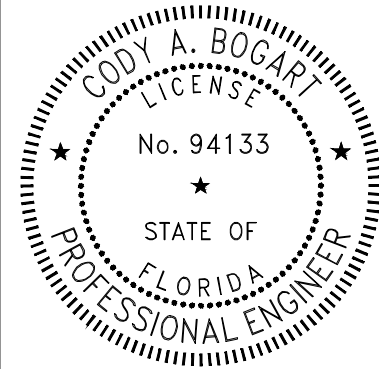
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SITE GRADING AND DRAINAGE PLAN
SHORES DEPOT
2616 SOUTH ATLANTIC AVENUE
DAYTONA BEACH SHORES, FL 32118

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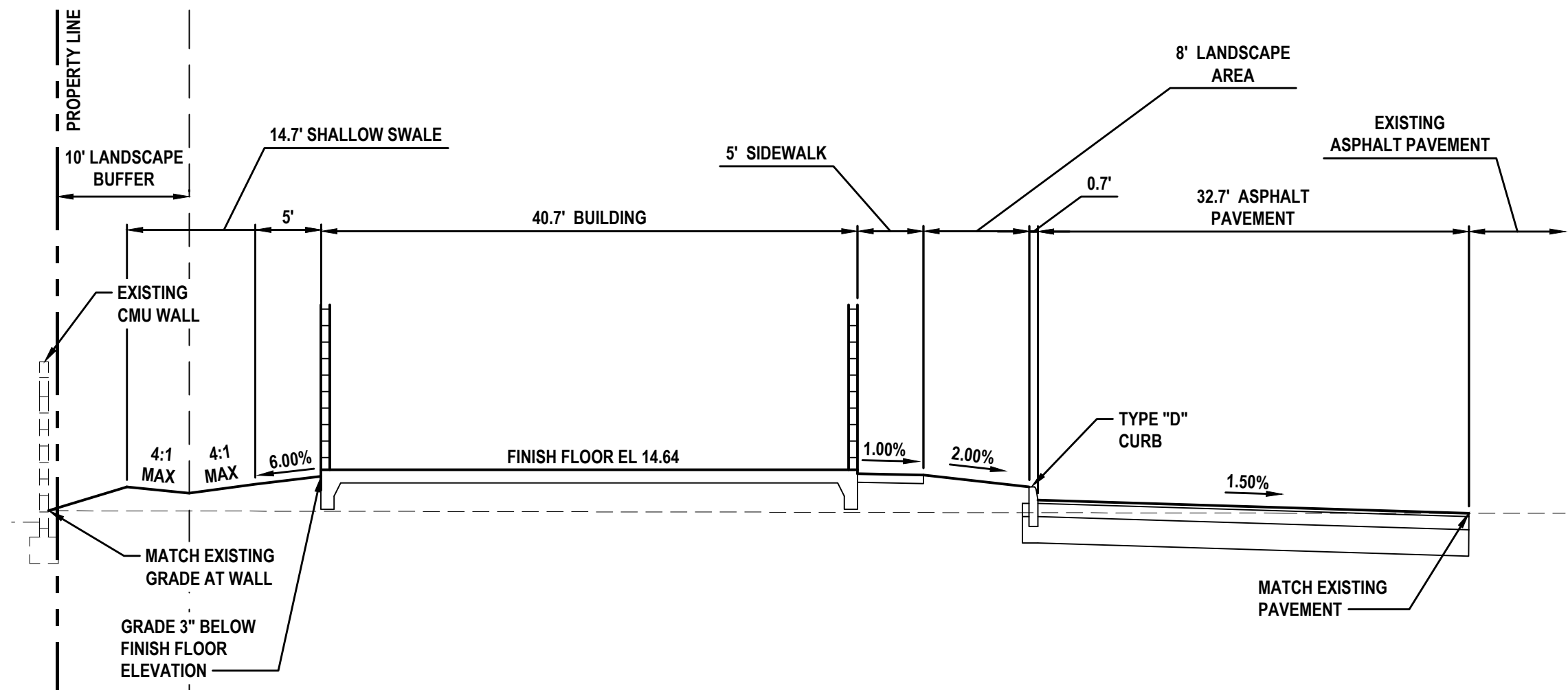
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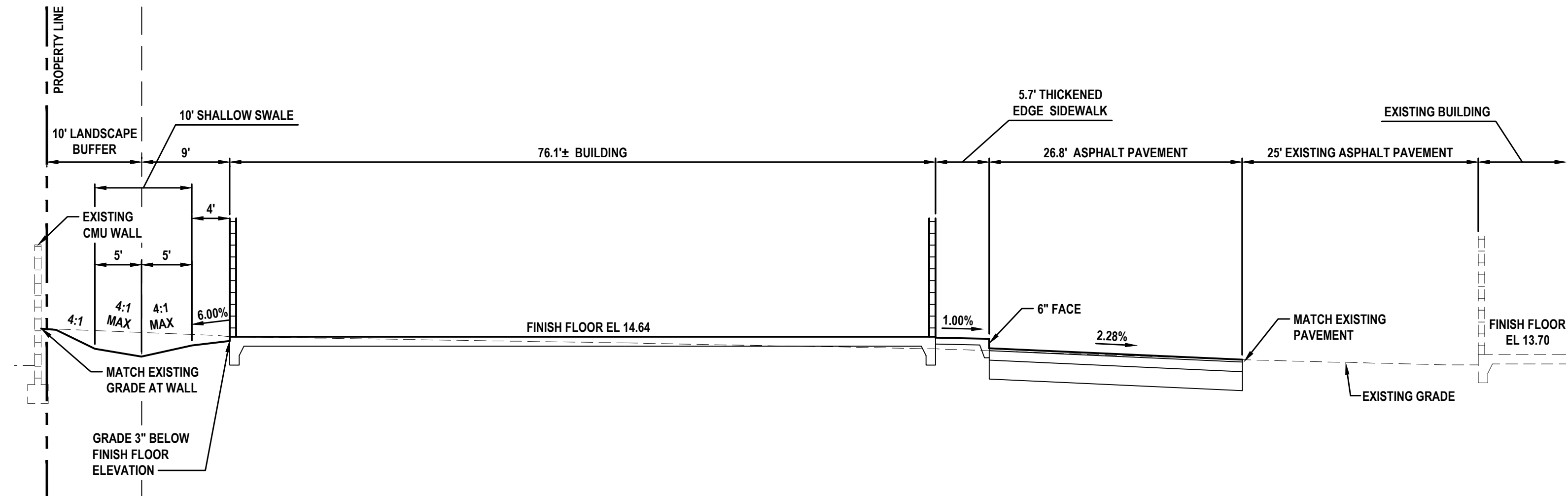
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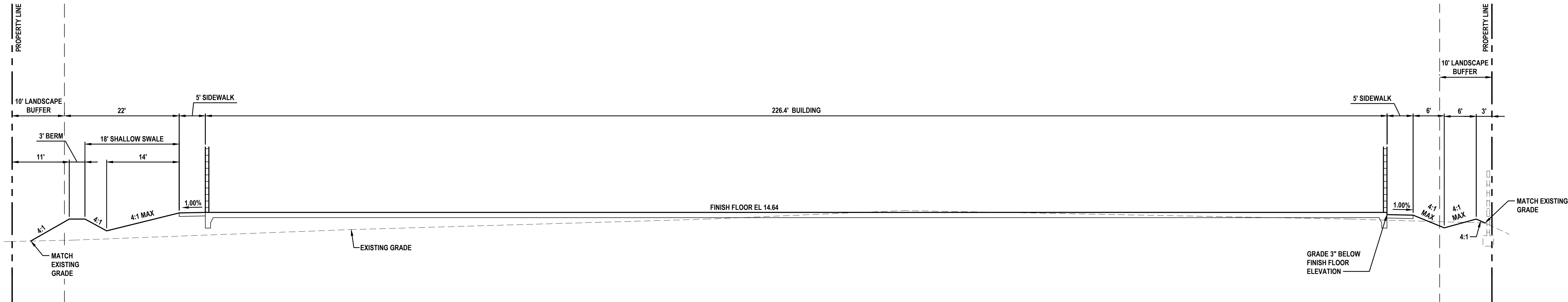
07



SECTION A
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SECTION B
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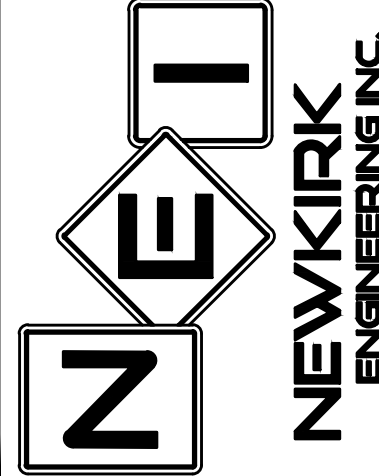


SECTION C
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REVISIONS

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2/20/23	CITY COMMENTS

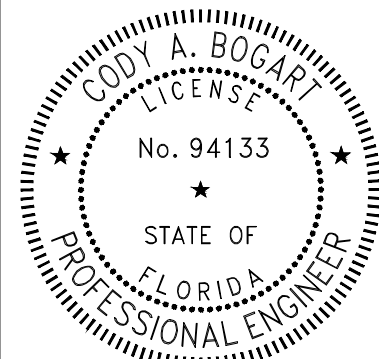
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CROSS SECTIONS
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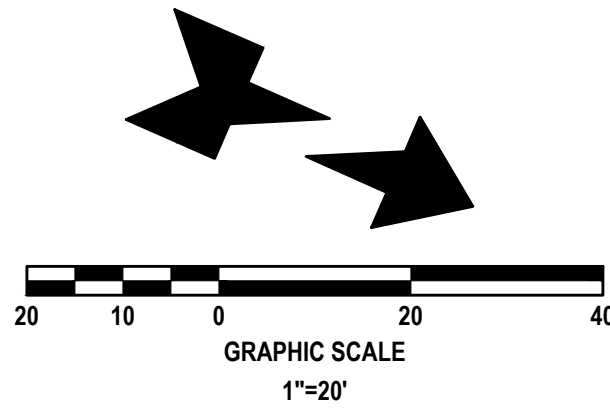


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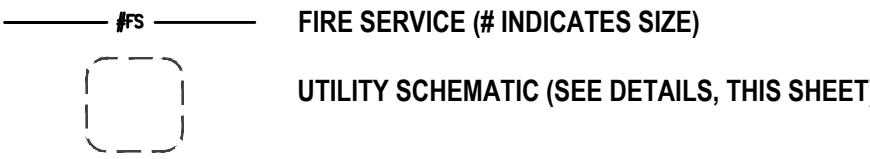
08



REQUIRED FIRE FLOW:

*SITE DESIGNED IN ACCORDANCE TO THE CURRENT FLORIDA FIRE PREVENTION CODE (FFPC).	
FLORIDA BUILDING CODE CONSTRUCTION TYPE:	VB - UNPROTECTED
FIRE AREA:	37,950 SF
REQUIRED FIRE FLOW:	1,750 GPM @ 4 HOURS
PROVIDED FIRE FLOW:	2,507 GPM @ 20 PSI

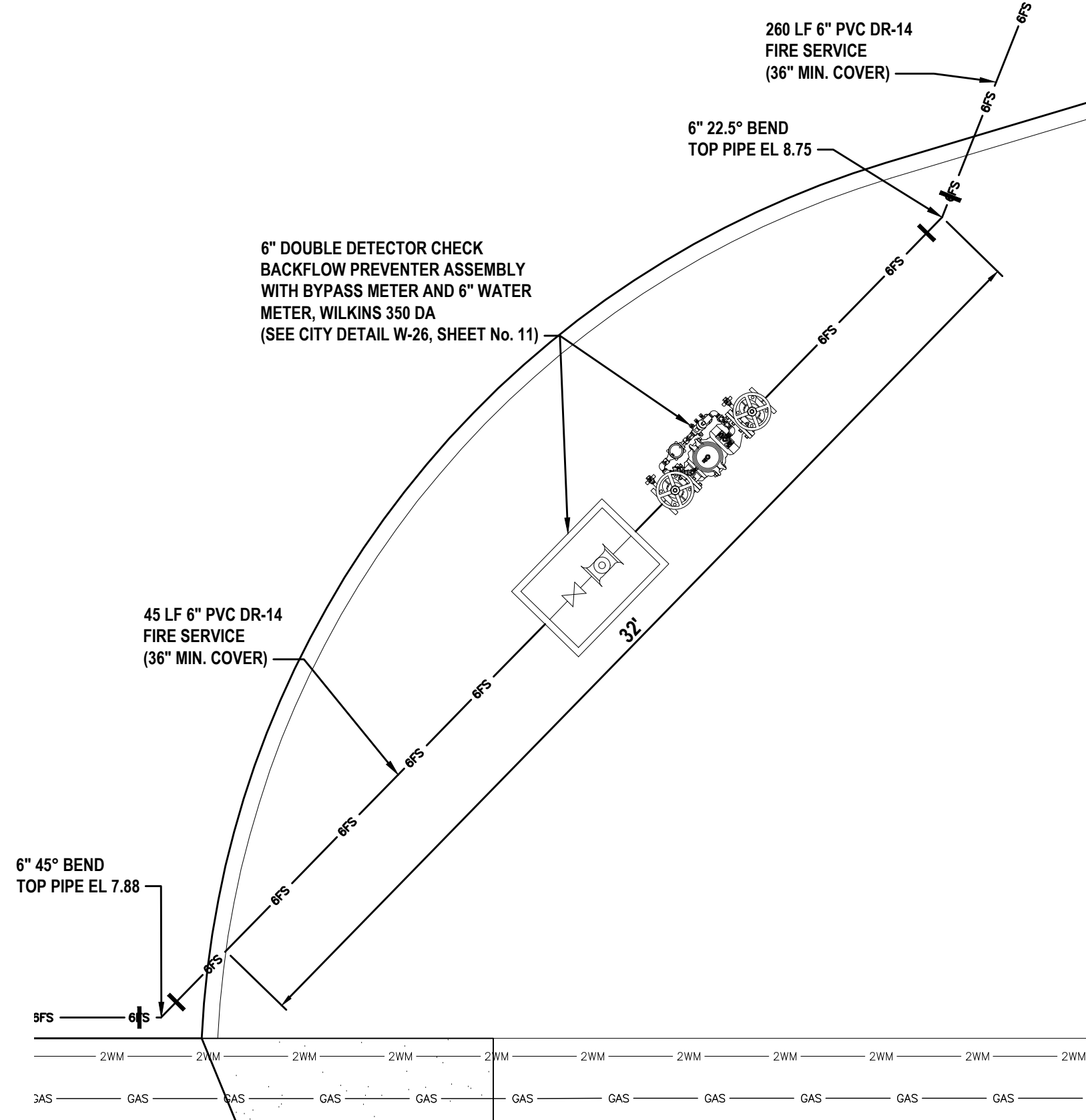
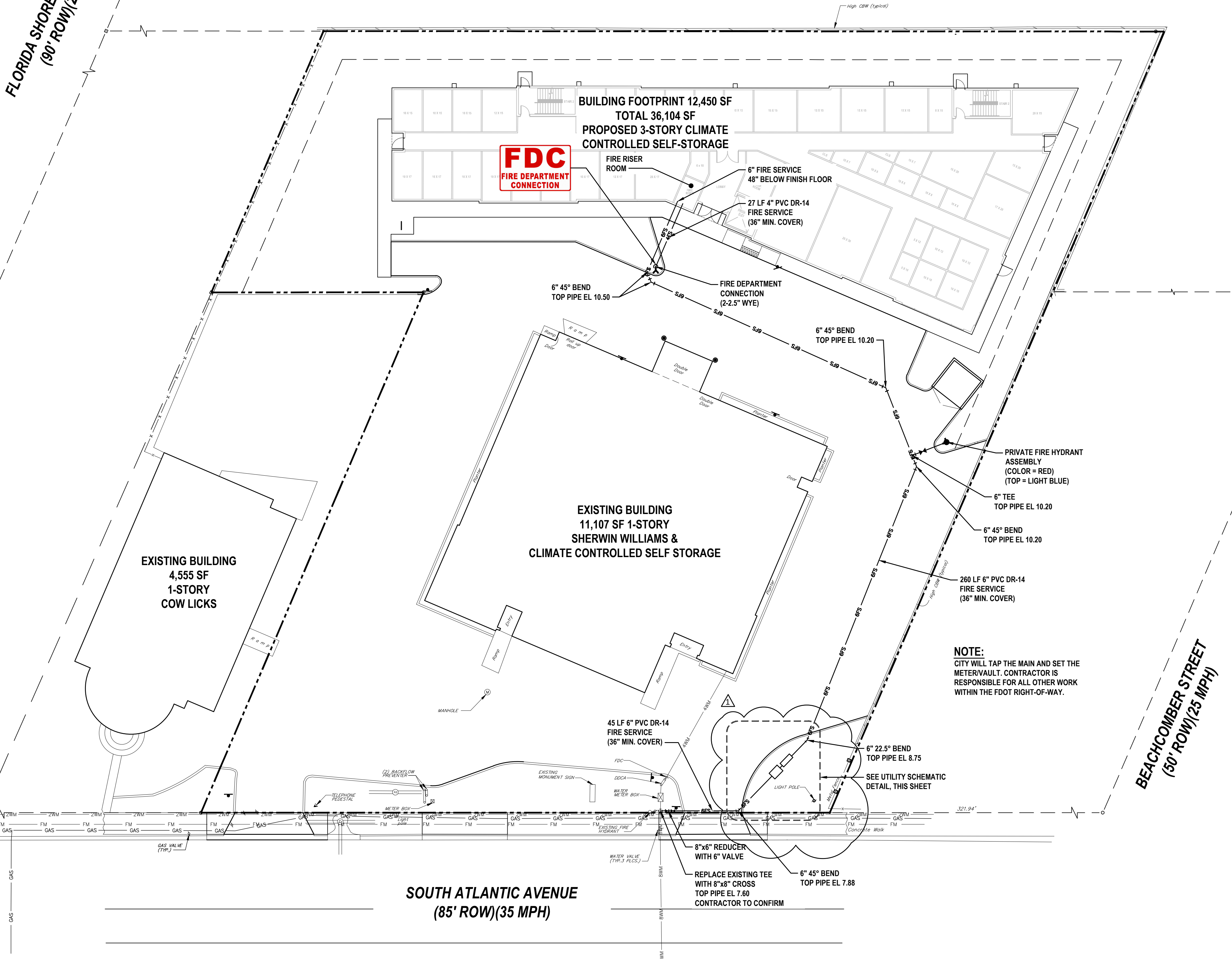
PROPOSED UTILITY LEGEND



GENERAL WATER NOTES:

1. THE CITY OF DAYTONA BEACH UTILITY DEPARTMENT SHALL BE NOTIFIED PRIOR TO BEGINNING ANY WATER SYSTEM CONSTRUCTION.
2. ALL WATER DISTRIBUTION CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDEP REGULATIONS AND THE CITY OF PORT ORANGE UTILITY DETAILS AND SPECIFICATIONS (LATEST EDITION).
3. CONTRACTOR IS TO VERIFY THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES (UNDERGROUND AND OVERHEAD) PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER.
4. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ANY EXISTING PAVEMENT, SIDEWALK, CURBING, UTILITIES AND DRAINAGE SYSTEMS DAMAGED DURING CONSTRUCTION. ALL DAMAGED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
5. LOCATION OF TELEPHONE, T.V. CABLE AND ELECTRICAL SERVICE CONNECTIONS TO BE DETERMINED BY APPROPRIATE UTILITIES PERSONNEL IN COOPERATION WITH CONTRACTOR.
6. ALL WATER MAINS SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
7. TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY OF DAYTONA BEACH UTILITY DEPARTMENT WITH A MINIMUM COMPACTION OF 98 PERCENT (AASHTO-T180).
8. WATER SERVICES FROM 3/4" TO 2" POLYETHYLENE (ENDOTRACE) WITH 36" MINIMUM COVER.
9. WATER MAIN FROM 4" TO 12" SHALL BE PVC CLASS 150 (DR 18) WITH 36" MINIMUM COVER.
10. ALL WATER AND FIRE SERVICES ARE REQUIRED TO HAVE A HARD BODY GATE VALVE OFF THE MAIN LINE.
11. ALL VALVES SHALL BE BOLTED TO TEES.
12. ALL POTABLE WATER PIPE SHALL HAVE "NSF POTABLE WATER" IMPRINTED ON THE PIPE.
13. ALL WATER MAIN FITTINGS 4 INCHES OR LARGER SHALL BE CEMENT LINED DIP.
14. A TAPPING CONTRACTOR ACCEPTABLE TO THE CITY OF PORT ORANGE UTILITY DEPARTMENT WILL BE REQUIRED FOR TAPS.
15. THE CONTRACTOR SHALL MAKE ALL ATTEMPTS TO LOCATE BURIED UTILITIES AND NOTIFY THE UTILITY COMPANIES 48 HR. PRIOR TO CONSTRUCTION.
16. UTILITY TRENCH CONSTRUCTION SHALL CONFORM TO CITY OF DAYTONA BEACH UTILITY DEPARTMENT, CITY OF DAYTONA BEACH UTILITY DEPARTMENT AND OSHA REQUIREMENTS.
17. IN THE CASE WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH THE APPROVAL OF THE CITY OF DAYTONA BEACH UTILITY DEPARTMENT UTILITY DEPARTMENT, DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE WILL EXTEND AT LEAST 100 FEET BEYOND ANY DISCOVERED SOLVENT.

FLORIDA SHORES BOULEVARD
(90' ROW)(25 MPH)



UTILITY SCHEMATIC DETAIL
NOT TO SCALE

NOTE:
CITY WILL TAP THE MAIN AND SET THE METER/VAULT. CONTRACTOR IS RESPONSIBLE FOR ALL OTHER WORK WITHIN THE FDOT RIGHT-OF-WAY.

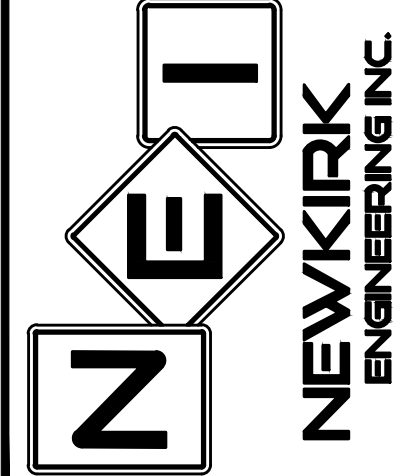


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REVISIONS

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REVISION #1	

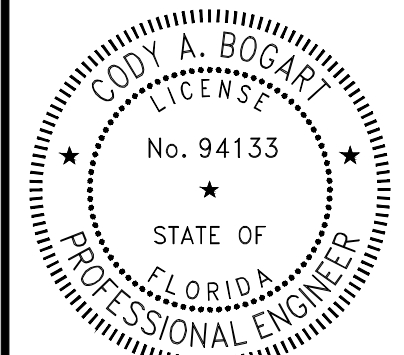
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SITE UTILITY PLAN
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09

FDEP WATER NOTES

1.

ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT WILL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS.
2.

ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61.
3.

ALL PROPOSED WATER MAINS SHALL BE FLUSHED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-651 AND THE FDEP PROTECTION REQUIREMENTS.
4.

POTABLE WATER PIPES SHALL BE HYDROSTATICALLY TESTED FOR PRESSURE AND LEAKAGE IN ACCORDANCE WITH AWWA STANDARD C600 FOR DUCTILE IRON PIPES AND C605 FOR PVC PIPES, RESPECTIVELY.
5.

ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE LEAD FREE, AND ANY SOLDER OR FLUX USED IN THIS PROJECT WILL CONTAIN NO MORE THAN 0.2% LEAD.
6.

ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(21)(B)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.)
7.

POTABLE WATER PIPES MUST BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING AWWA SPECIFICATIONS:

A.

DUCTILE IRON PIPE (3 INCHES TO 54 INCHES) - AWWA C150 AND AWWA C151;

B.

PVC PIPE

(1)

AWWA C900/ASTM 1784 (1 INCH TO 12 INCHES) WITH CL200 MINIMUM;

(2)

AWWA C905 (14 INCHES TO 48 INCHES);
8.

ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL HAVE UNPLUGGED, UNDERGROUND DRAINS WILL BE LOCATED AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, PIPELINE CONVEYING RECLAIMED WATER OR VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-10, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."

9.

NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT WILL BE INSTALLED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS OR IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED PROCEDURES.

10.

A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT.

11.

ALL WATER MAIN TEES, BENDS, PLUGS, AND HYDRANTS INSTALLED UNDER THIS PROJECT WILL BE PROVIDED WITH THRUST BLOCKS OR RESTRAINED JOINTS TO PREVENT MOVEMENT.

12.

NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL BE CONSTRUCTED OF ASBESTOS-CEMENT OR POLYVINYL CHLORIDE PIPE WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C603 OR C605, RESPECTIVELY, AND ALL OTHER NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C600.

13.

NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER);
- A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."
14.

NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.

15.

AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

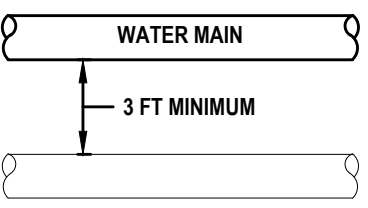
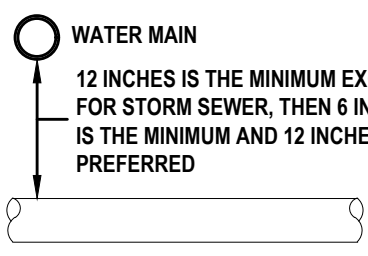
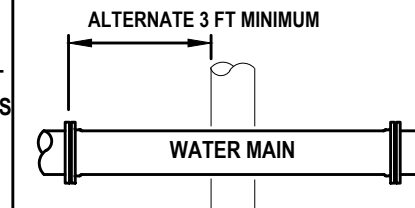
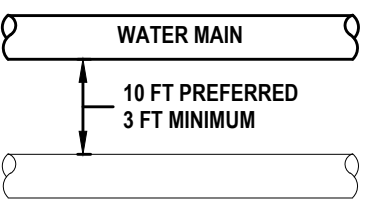
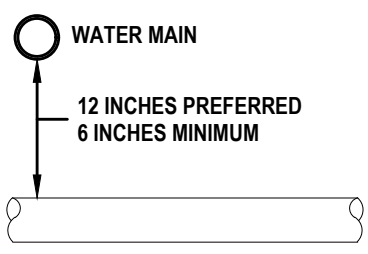
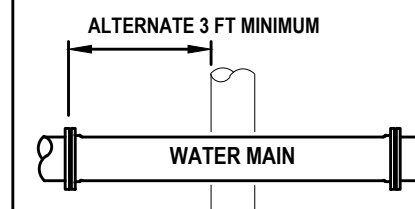
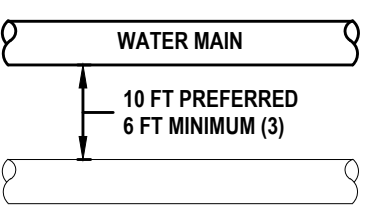
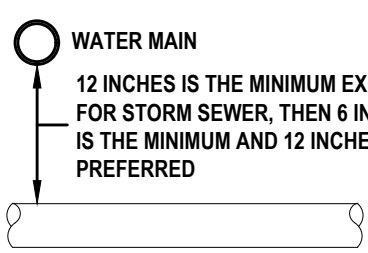
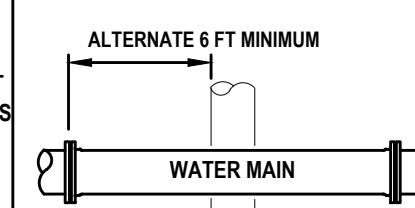
16.

IF CONNECTION OF THE PROPOSED ACTIVITY TO THE WATER MAIN WILL RESULT IN A DEPRESSURIZATION OF THE EXISTING SYSTEM BELOW 20 POUNDS PER SQUARE INCH, ONE OF THE FOLLOWING MUST OCCUR;

A.

PRECAUTIONARY BOIL WATER NOTICES MUST BE ISSUED IN CASES OF PLANNED DISTRIBUTION INTERRUPTIONS, WHICH ARE DEEMED AN IMMINENT PUBLIC HEALTH THREAT BY THE DEP CENTRAL DISTRICT OR WILL AFFECT THE BACTERIOLOGICAL QUALITY OF THE DRINKING WATER UNLESS THE PUBLIC WATER SYSTEM CAN DEMONSTRATE, BY SOUND ENGINEERING JUDGMENT, THAT THE INTEGRITY OF THE WATER SYSTEM HAS BEEN MAINTAINED; OR

B.

IN CASE OF BRIEF INTERRUPTION IN SERVICE, ADVISORIES (NOT BOIL WATER NOTICES) SHOULD BE ISSUED IF TEMPORARY CHANGES IN WATER QUALITY ARE EXPECTED TO OCCUR AND NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.
- LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314
- | OTHER PIPE | HORIZONTAL SEPARATION | CROSSINGS (1) | JOINT SPACING AT CROSSINGS (FULL JOINT CENTERED) |
|--|---|---|---|
| STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER (2) |  |  |  |
| VACUUM SANITARY SEWER |  |  |  |
| GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (4) |  |  |  |
| ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM | 10 FT MINIMUM (3) | — | — |
- (1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.

(2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

(3) 3 FT FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.

(4) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- TABLE 1: CLASSES OF EMBEDMENT AND BACKFILL MATERIALS
- | ASTM D 2321 MATERIAL CLASS | ASTM D 2487 USCS SOIL GROUP | MATERIAL TYPE | % PASSING | | | ATTERBERG LIMITS | |
|----------------------------|-----------------------------|--------------------------------------|-----------|---------------------------|------------|------------------|----|
| | | | 1 1/2 IN. | NO. 4 | NO. 200 | LL | PI |
| IA | NONE | MANUFACTURED OPEN GRADED AGGREGATES | 100% | ≤10% | <5% | NON PLASTIC | |
| IB | NONE | MANUFACTURED DENSE GRADED AGGREGATES | 100% | ≤50% | <5% | NON PLASTIC | |
| II | GW | COARSE-GRAINED SOILS, CLEAN | 100% | <50% OF "COARSE FRACTION" | <5% | NON PLASTIC | |
| | GP | | | >50% OF "COARSE FRACTION" | | | |
| | SW | | | >50% OF "COARSE FRACTION" | | | |
| | SP | | | >50% OF "COARSE FRACTION" | | | |
| III | GM | COARSE-GRAINED SOILS W/ FINES | 100% | <50% OF "COARSE FRACTION" | 12% TO 50% | <4 OR <"A" LINE | |
| | GC | | | >50% OF "COARSE FRACTION" | | <7 OR >"A" LINE | |
| | SM | | | >50% OF "COARSE FRACTION" | | >4 OR <"A" LINE | |
| | SC | | | >50% OF "COARSE FRACTION" | | >7 OR >"A" LINE | |
| IV-A | ML | FINE-GRAINED SOILS | 100% | 100% | >50% | <4 OR <"A" LINE | |
| | CL | | | | | >7 OR >"A" LINE | |
- TRENCH AND BEDDING DETAILS
- GENERAL NOTES
1.

BEDDING SHALL BE DUMPED CLASS I-A WORKED BY HAND, OR CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. LOCAL CODE PERMITTING WITH GEOTECHNICAL ENGINEER AND OWNER APPROVAL NATIVE SOIL MAY BE USED FOR BEDDING PROVIDED IT MEETS THE EMBEDMENT AND BACKFILL MATERIALS IN TABLE 1 EXCLUDING CLASS IV-A.

2.

HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A, OR CLASS I-B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR. PEA GRAVEL SHALL NOT BE USED AS A HAUNCHING MATERIAL. CLASS III MATERIAL SHALL BE ALLOWED FOR RIGID PIPE COMPACTED AT 95% STANDARD PROCTOR. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 90% STANDARD PROCTOR, OR CLASS III COMPACTED 95% STANDARD PROCTOR. CLASS I & II MATERIAL SHALL BE USED FOR FLEXIBLE PIPE WHEN FILL HEIGHTS EXCEED 8".

3.

FINAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 90% STANDARD PROCTOR, OR CLASS III COMPACTED 95% STANDARD PROCTOR. CLASS I & II MATERIAL SHALL BE USED FOR FLEXIBLE PIPE WHEN FILL HEIGHTS EXCEED 8".

4.

ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321. (SEE TABLE 1)

5.

ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.

6.

FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".

7.

ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.

8.

DESIGN ENGINEER SHALL DESIGNATE ON THE PLANS WHERE WATERTIGHT JOINTS ARE TO BE REQUIRED.

9.

REPLACE WET OR UNSUITABLE SOIL AS NECESSARY TO PROVIDE A SUITABLE BASE, AS DIRECTED BY GEOTECHNICAL ENGINEER OR OWNER.

10.

WHERE GROUND WATER IS PRESENT CLASS I-A MATERIAL SHALL BE WRAPPED WITH A NON-WOVEN GEO-TEXTILE, EXCLUDING BEDDING MATERIAL BETWEEN 4" & 6" THICK.

11.

CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR SOIL TYPE AND CLASSIFICATIONS FOR THIS PROJECT.

12.

CONTRACTOR SHALL REFER TO THE LATEST VERSION OF ASTM STANDARDS PRIOR TO CONSTRUCTION.
-
-
- UNDERGROUND RESTRAINT DETAIL
- NOT TO SCALE
-
- BACTERIOLOGICAL SAMPLE POINT DETAIL
- NOT TO SCALE
- REVISIONS
- | DATE | DESCRIPTION |
|------|-------------|
| | |
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- 1230 North US1, Suite 3
Ormond Beach, Florida 32174
Phone (386) 872-7794
www.Newkirk-Engineering.com
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L.C. # 2600584
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|-------------|---------------|
| PROJECT No: | 2022-159 |
| DATE: | NOVEMBER 2023 |
| DESIGN BY: | CAB |
| DRAWN BY: | GAB |
| CHECKED BY: | HHN |
| SCALE: | N.T.S. |
- DRAWING NUMBER
- 10
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Section 01720
AS-BUILTS/RECORD DOCUMENTS

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. This Section sets forth the requirements for preparing as-built/record drawings and documents for verification of construction and archiving.

CONTRACTOR shall secure the services of a Florida licensed surveyor to collect data and prepare as-built/record drawings in accordance with City of Daytona Beach Utilities standards as follows:

1.2 REFERENCE

- A. The preparation work shall be in accordance with this section and supplementary details in the City of Daytona Beach Utilities Department Standard Details, latest edition.

1.3 AS-BUILTS/RECORD DRAWINGS AND DOCUMENTS:

In order to ensure that the project records are maintained to the highest standards and the information can easily be added to the City's electronic records the following information is required on all As-built/Record Drawings.

- A. The intent of these details for As-built/Record Drawings are required for all public facilities constructed. Prior to construction completion these as built/record requirements will be reviewed to be certain the Contractor's surveyor has a clear understanding of what is required for completion of this work.

1. Pavement and curb widths shall be verified and dimensioned for each street at each block (or subdivisions) and as appropriate to confirm paving limits (on site plans).
2. All radii at intersections shall be verified and dimensioned. This information is to be clearly indicated on the as-built/record drawings.

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



AS-BUILT DRAWING
REQUIREMENTS
(SHEET 1 of 7)

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AS-BUILTS/RECORD DOCUMENTS

3. Roadway elevation shall be recorded at all grade changes, 100' intervals along roadway, and other intervals as needed along all streets. Street centerline and curb invert elevations shall be recorded as noted. The as-built centerline profile of all streets shall also be shown on the plan and profile so it may be compared to the design profile grade lines. In the event that the as-built centerline longitudinal grade does not meet the City minimum standards, additional longitudinal grades of the adjacent curbing and similar roadway cross-section surveys to verify the correct cross slope, shall be required to verify that the system will function as originally designed.

4. Storm drainage structures shall be located and/or dimensioned from centerlines or lot lines as appropriate. Each structure shall be located by sub-meter GPS with Station & Offset, northerly & easterly, latitude, longitude, and elevation data.

5. Storm drainage pipe invert and inlet elevation shall be recorded and clearly denoted as As-built information. Design elevation shall be crossed out and as-built information written next to it.

6. Storm drainage pipe material, length, size shall be measured and/or verified. This information is to be clearly indicated as being as-built information.

7. All applicable topographic information pertinent to the on-site drainage system, such as ditches, swales, lakes, canals, etc. that are deemed necessary by the City to verify the functional performance of the storm system, shall be noted. Normally, recording elevation every 100 feet at the top of bank to toe of slope will be required. Measurements shall be taken and recorded in order to accurately tie down these features to the roadway centerlines and to plat lines. Whenever possible, contour lines shall be utilized to graphically describe these topographic features.

8. Retention areas shall have their top of bank and bottom elevations recorded. Actual measurements shall be taken and dimensions recorded of the size of all retention areas. Measurements shall be done from top of bank with side slopes indicated. Separate calculations shall be submitted to indicate required and provided retention volumes.

9. Actual materials used and elevations and dimensions of overflow weir structures and skimmers shall be noted on the as-built.

10. Storm drainage swale centerlines shall be located and elevations of flow line and top of bank shall be recorded every 100 feet. side slopes shall also be indicated.

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AS-BUILT DRAWING
REQUIREMENTS
(SHEET 2 of 7)

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Section 01720
AS-BUILTS/RECORD DOCUMENTS
(CONTD)

11. Sanitary sewer manholes shall be verified and dimensioned from street centerlines or lot lines as appropriate. Each structure shall be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude, and elevation data. All rim and invert elevation shall be verified and recorded. This information shall be clearly indicated as being as-built information. Design elevations shall be crossed out and as-built information written next to it.

12. For subdivisions, proposed design finish floor elevations shall appear on all subdivision lots on the appropriate plan and profile sheet as well as on the master drainage plan.

13. Sanitary sewer line lengths, sizes, material, slope, etc., shall be verified and recorded, this information is to be clearly indicated as being as-built information.

14. Sewer Laterals shall be verified and recorded at the clean out locations, stationing and offset distances shall be measured from upstream manholes towards downstream manholes. Invert information at clean out shall be provided and be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude, and elevation data.

15. Lift station and foremain shall be verified and dimensioned from street centerlines or lot lines as appropriate. Foremain depth and location including valves will be provided and tied to permanent above grade features. dimensional and elevation information indicated on the approved plan shall be verified and recorded. This information shall be clearly indicated as being as-built information. Buried potable water lines and electrical service lines shall be clearly dimensioned, located and labeled. Each lift station shall be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude and elevation data.

16. Curb cuts or metal tabs, used to mark sewer laterals, water services and water valves, shall be verified for presence and accuracy of location.

17. Potable and reclaimed water main lines shall be dimensioned off the baseline construction. Water main line material size, length and depth, placed shall be noted. Locations of valves shall also be tied to baseline construction. This information shall be clearly indicated as being as-built information.

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AS-BUILT DRAWING
REQUIREMENTS
(SHEET 3 of 7)

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18. Potable and reclaimed water valves, tees, bends, all services, and fire hydrants shall be located by tying them to baseline construction (Sta. & Offset). Similarly, force main valves, tees, and bends shall be located in the same manner. Stationing and offset distances shall be measured from upstream manholes to downstream manholes. All services, valves, tees, bends, and hydrants shall be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude and elevation data.

19. For perpendicular crossings of storm water, sanitary sewer, potable water, or reclaimed water, the as-built plans shall clearly indicate which utilities are located over or under other utilities, and identify vertical separation.

20. Any special features such as, concrete flumes, lake banks, walls, fencing, etc. which are a part of the approved construction drawings should also be located and dimensioned.

21. If an approved subdivision plat or site plan shows a conservation easement, the project surveyor should provide the exact location of the specimen tree(s) from the right of way or property lines and proposed easement boundaries on the as-built drawing. The as-built location of these trees will help verify the sufficiency of the conservation easement prior to plat recording or certificate of occupancy.

22. When storm water, potable water, reclaimed water, or sanitary sewer improvements are located within an easement, the as-built drawing will accurately depict the location of the easement itself as well as the exact location of the improvements within the easement. This is required in order to verify that the improvements have been properly located and to ensure that future subsurface excavation to perform remedial repair can be accomplished without disturbance beyond the easement.

23. Recorded Drawings are to be based on construction drawings and include both designed and constructed data, signed and sealed by a Florida licensed surveyor. The City will require the following items to be sent emailed and by hard copies. Item 1. Two PDF (One PDF as-built drawings shall also be electron signed and sealed by a the Surveyor; the second one not locked or signed.), 2. The as-built drawings to be provided on a CD with a digital copy in a compatible AutoCAD format, and PDF format.

24. Elevations shall be referenced to NAVD 1988 Data. As-built survey information shall be referenced to at least two Florida State Plane east coordinates NAD 83.

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AS-BUILT DRAWING
REQUIREMENTS
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25. Benchmark Datum utilizes monumentation from the North American Vertical Datum of 1929 with elevations adjusted to NGVD 1988 data. Any NAVD 1929 monument with the limits of construction is to be protected.
26. New conduits that are installed shall show location of tees and bends and record elevations every 100'. All shall be located by tying them to baseline/centerline construction (sta. & offset). Similarly, water mains, tees and bends shall be located in the same manner. All bends and tees shall be located by sub-meter GPS with station & offset, northerly & easterly, latitude & longitude and elevation data.

1.4 SUBMITTALS

- A. CONTRACTOR shall submit each month to CITY the Project Activity Summary that shows current construction activities and a copy of notices to agencies including the City regarding road closures; plus a record of events that will be needed in the future.

- B. CONTRACTOR shall submit to CITY as required the proposed shut-off schedule, capping, temporary service scheduling, record of notices to customers and proposed roadway closings.

- C. CONTRACTOR shall submit copies of published notices.

- D. CONTRACTOR shall submit Final Record Drawings for each utility included in the plans (water, reuse, sewer, foremain, and stormwater). Contractor will need to upload to the City's sharepoint a copy of the AutoCAD, Xref's, and PFD's files for a review before sending the CD to the City. Once reviewed with no comments, the Contractor will need to email a request for the Sharepoint file information to be able to upload the Recorded Drawings materials. The final submittal shall include two (2) PFD's: one that is electronically signed and sealed, the other unrestricted, on a CD with working AutoCAD, Xref's files, and a set of PDF files. (Paper copies will be no longer be required). When the Recorded Drawings are delivered for clearance of water line, they will be reviewed and are approved, and then can be scheduled for chlorination. CITY will not release the drinking water bacteriological laboratory report, and Clearance application to Volusia County Health Department until the As-built / Recorded Drawings information meets CITY requirements. CONTRACTOR will have 60 days from the time that the bacteriological samples are collected to submit any correction that needed to be done to the as-built and CD to CITY. If CONTRACTOR goes past the 60 days re-chlorination will be required and pay for the bacteriological laboratory report will be required.

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



AS-BUILT DRAWING
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- E. Here are examples of how to display and label valves, fittings, and pipes on the plans in model space. Include a location arrow going to the identified object:

Valve Example:

20" GATE VALVE
STA. 22+23 (LT. 55.0')
LAT. = 29°12'53.009"N
LONG. = 81°04'03.355"W
N = 1,774,373.4058
E = 634,602.7566
TOP OF NUT ELEV. = 27.50
GROUND ELEV. = 30.50

20" DIP WATER MAIN
STA. 22+00 (RT. 55.0')
LAT. = 29°12'50.009"N
LONG. = 81°04'26.355"W
N = 1,774,373.4058
E = 634,602.7566
TOP OF PIPE ELEV. = 27.50
GROUND ELEV. = 30.50

Manhole Example:

Manhole No. 25
STA. 22+23 (LT. 55.0')
LAT. = 29°12'53.009"N
LONG. = 81°04'03.355"W
N = 1,774,373.4058
E = 634,602.7566
RIM ELEV. = 27.50
NORTH 15" RCP ELEV. = 8.50
WEST 24" CMP ELEV. = 7.50
BOTTOM ELEV. = 9.30

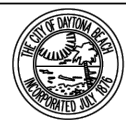
2" PVC CONDUIT
STA. 22+00 (RT. 55.0')
LAT. = 29°12'50.009"N
LONG. = 81°04'26.355"W
N = 1,774,373.4058
E = 634,602.7566
TOP OF PIPE ELEV. = 27.50
GROUND ELEV. = 30.50

Bench Mark Example (All Bench Marks used must be shown on the plans):

BM#13
STA. 20+33 (LT. 85.5')
3/4" Iron Rod with Plastic Cap...
N = 1,774,373.4058
E = 634,602.7566
LAT. = 29°04'53.355"W
LONG. = 81°04'53.355"W
ELEV. = 92.55

All Material must be labeled (type of material and distance) Example:
(WM 8" C-900 DR-18, 250') (WM 6" DIP 150'), (Sanitary 8" SDR26 295' 0.40% XFM
(FM 10" C-900DR-18 100'), or (FM 6" DIP 30')

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



AS-BUILT DRAWING
REQUIREMENTS
(SHEET 6 of 7)

DT-2024-0009
Revision: 001 - 01-25-24
Drawn By: J. B. Bogan
Checked By: J. B. Bogan
Scale: NTS
Sheet No. 6 of 7
Project No. 2022-159
Page No. 6 of 7

Section 01720
AS-BUILTS/RECORD DOCUMENTS
(CONTD)

PART 2 EXECUTION

2.1 General

All drawings shall be prepared to True State Plane Coordinates. CONTRACTOR shall provide all materials, equipment, labor needed to prepare and submit accurate As-Built/Record Drawings.

- A. It is acceptable to CITY if the surveyor utilizes an after the fact approach to collecting and verifying the location and depth by vertical PVC pipes placed by the CONTRACTOR as markers for this purpose. The surveyor shall verify to the accuracy defined of the As-built conditions in Florida Statutes and certify the Record Drawings.

- B. CITY shall not be considered the best source of information for valve locations that may have been lost during final grading, the surveyor or CONTRACTOR shall excavate and properly mark all valve boxes and each valve shall have a tag or color coded to define water, sewer, or reuse water valves. The use of temporary PVC pipe markers color coded is acceptable so long as cross references are provided on the Record Drawings to prevent the tops from a water valve being placed on a sewer valve.

- C. THE CONTRACTOR SHALL PROVIDE THE UTILITIES DEPARTMENT ENGINEERING DIVISION THE FINAL AS BUILT/RECORD DRAWINGS ON CD. THE AS BUILT RECORD DRAWINGS SHALL BE PREPARED USING AUTOCAD FORMAT 2010 OR LATER. IN MODEL SPACE THE DRAWING LABELING AND LINE WORK SHALL BE ON SEPARATE LAYERS. THE DRAWINGS SHALL BE IN FLES-EP (NAD83 FLORIDA STATE PLANE, EAST ZONE, US FOOT STATE PLANE COORDINATES AND SHALL BE ABLE TO BE INSERTED INTO THE CITY'S OVERALL GIS SYSTEM. THE RECORD DRAWINGS SHALL ALSO BE PRINTED, SIGNED AND SEALED AS ALLOWED BY STATE OF FLORIDA REGULATIONS. A DISCLAIMER MAY BE NOTED IN A TRANSMITTAL LETTER PLUS THE SURVEYOR MAY ADD A SPECIAL NOTICE ON EACH SHEET REGARDING THE LOCATION OF THE TRUE ORIGINAL RECORD DRAWINGS OR PLACE LIMITS ON RESPONSIBILITY SHOULD SOME ONE IN THE FUTURE NEED TO MODIFY THE DRAWINGS.

- D. Identify the source markers for the survey used for Record Drawings.

END OF SECTION

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



AS-BUILT DRAWING
REQUIREMENTS
(SHEET 7 of 7)

DT-2024-0009
Revision: 001 - 01-25-24
Drawn By: J. B. Bogan
Checked By: J. B. Bogan
Scale: NTS
Sheet No. 7 of 7
Project No. 2022-159
Page No. 7 of 7

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Phone (386) 872-7794
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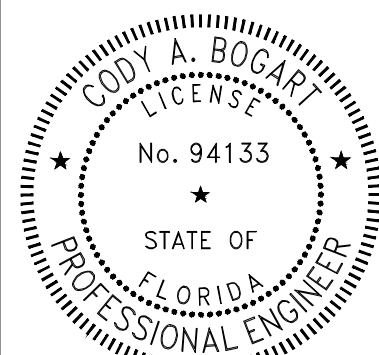
CITY OF DAYTONA BEACH
DETAILS

SHORES DEPOT

2616 SOUTH ATLANTIC AVENUE
DAYTONA BEACH SHORES, FL 32118

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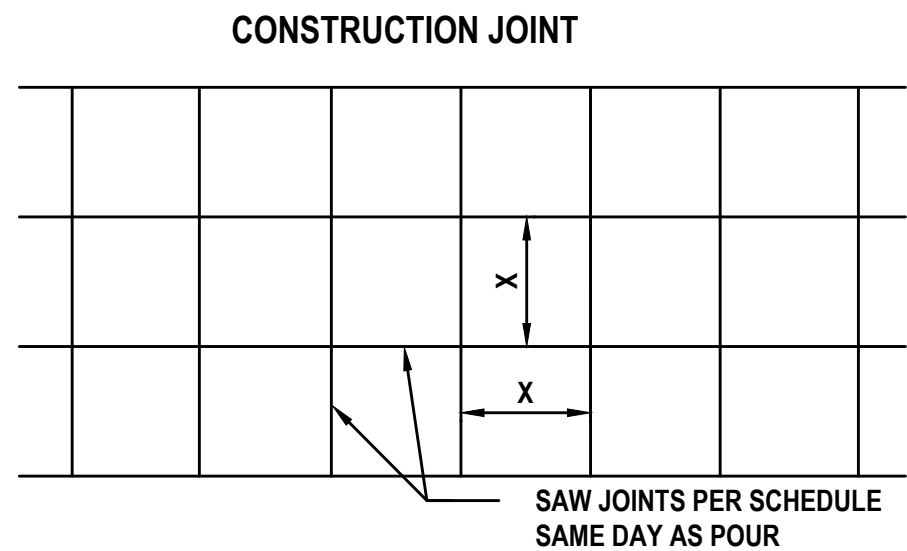
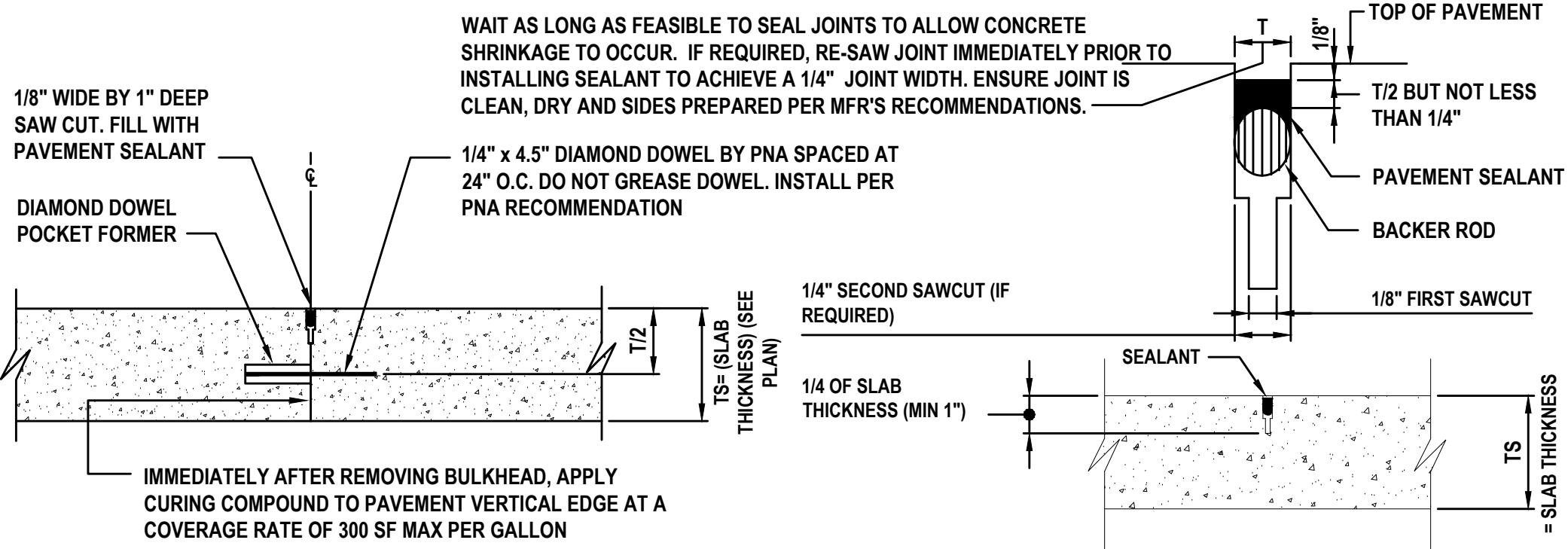


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SCALE:	N.T.S.

DRAWING NUMBER

12



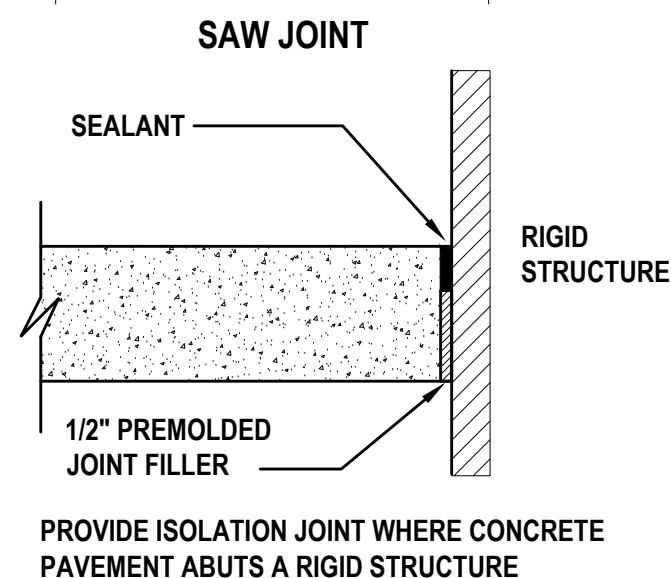
PLAN VIEW CONCRETE PAVEMENT

CONCRETE PAVEMENT JOINT DETAILS

NOT TO SCALE

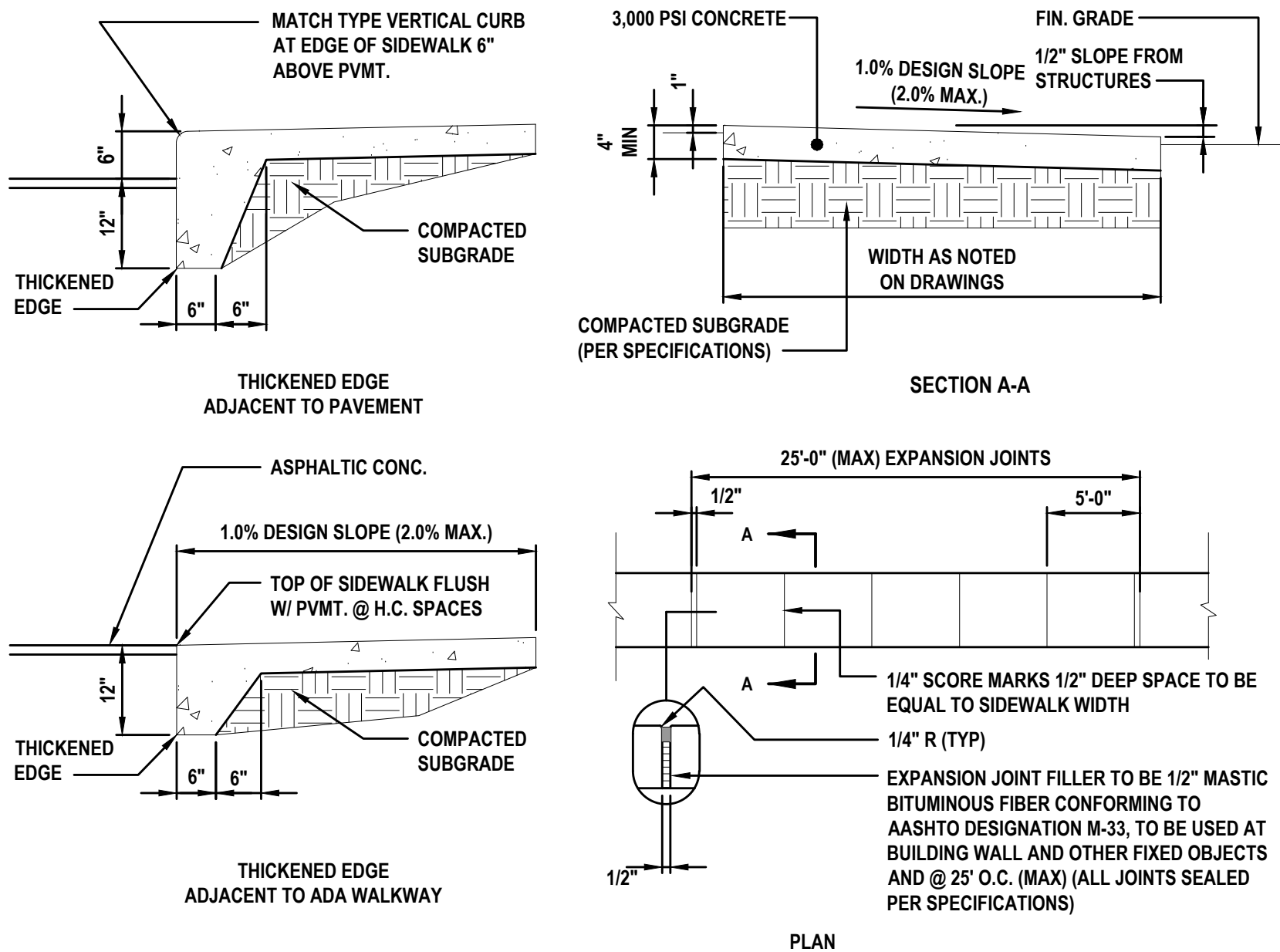
SAW CUT SCHEDULE

X = 12"x12"x2" DEEP



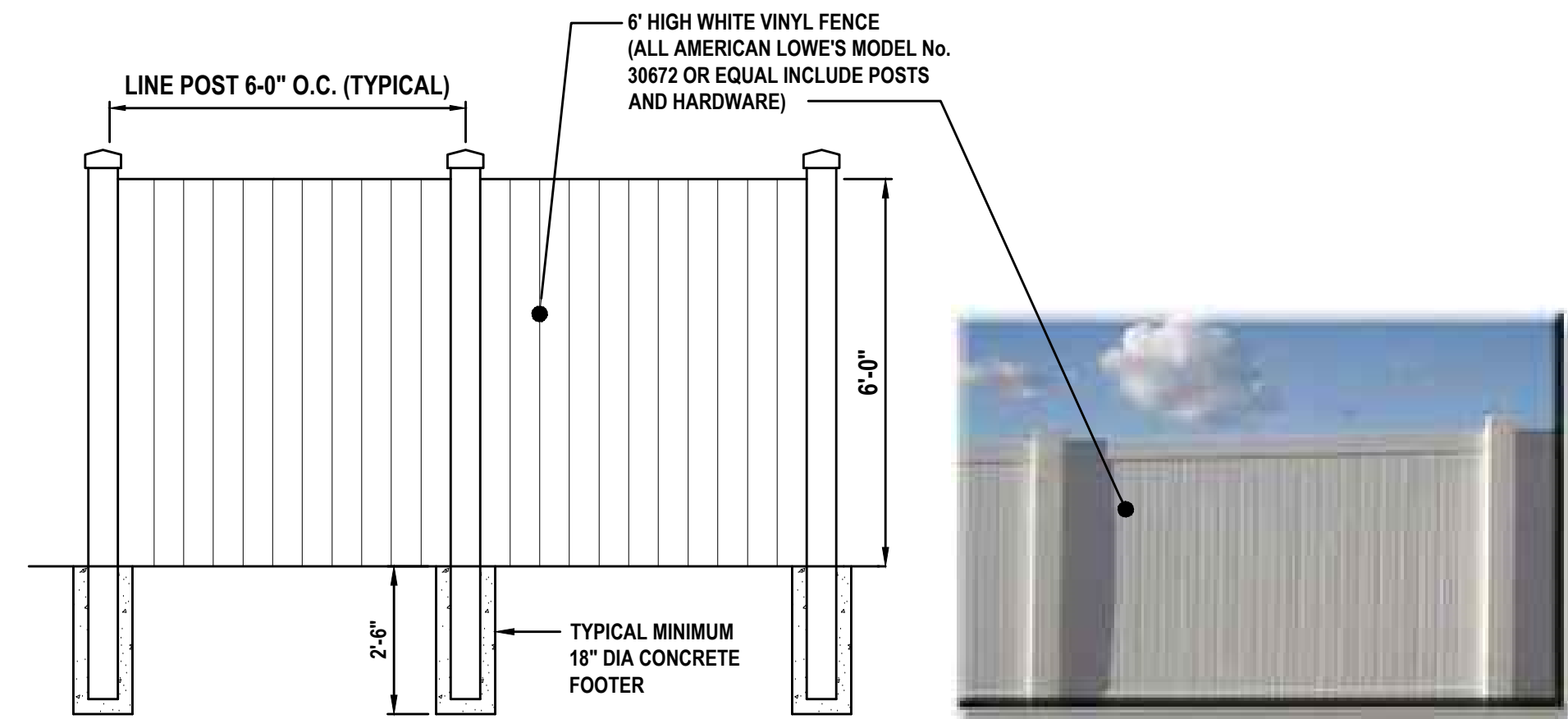
ISOLATION JOINT

CONCRETE WALKS SHALL BE 4 INCHES THICK, CLASS I, HAVING A 3,000 PSI STRENGTH @ 28 DAYS, POURED OVER PROPERLY PREPARED SUBGRADE. ALL CONCRETE SIDEWALKS SHALL BE 8 INCHES THICK ACROSS DRIVEWAYS. 1/2 INCH EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 25'. CRACK CONTROL JOINTS SHALL BE 5' ON CENTERS.



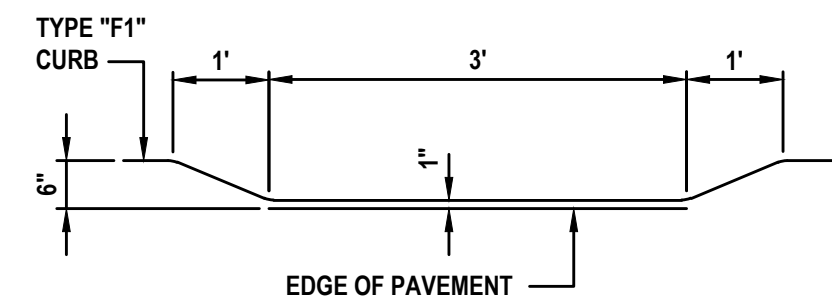
SIDEWALK DETAILS

NOT TO SCALE



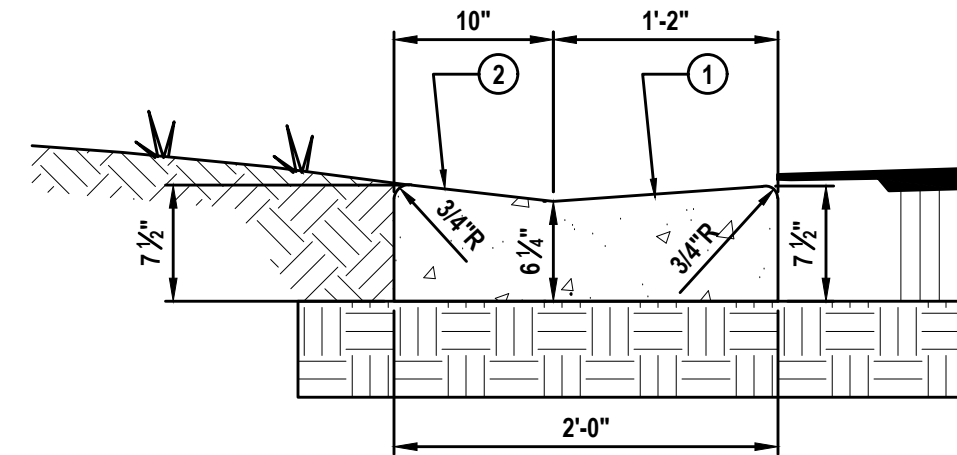
VINYL FENCE DETAIL

NOT TO SCALE



CURB NOTCH DETAIL

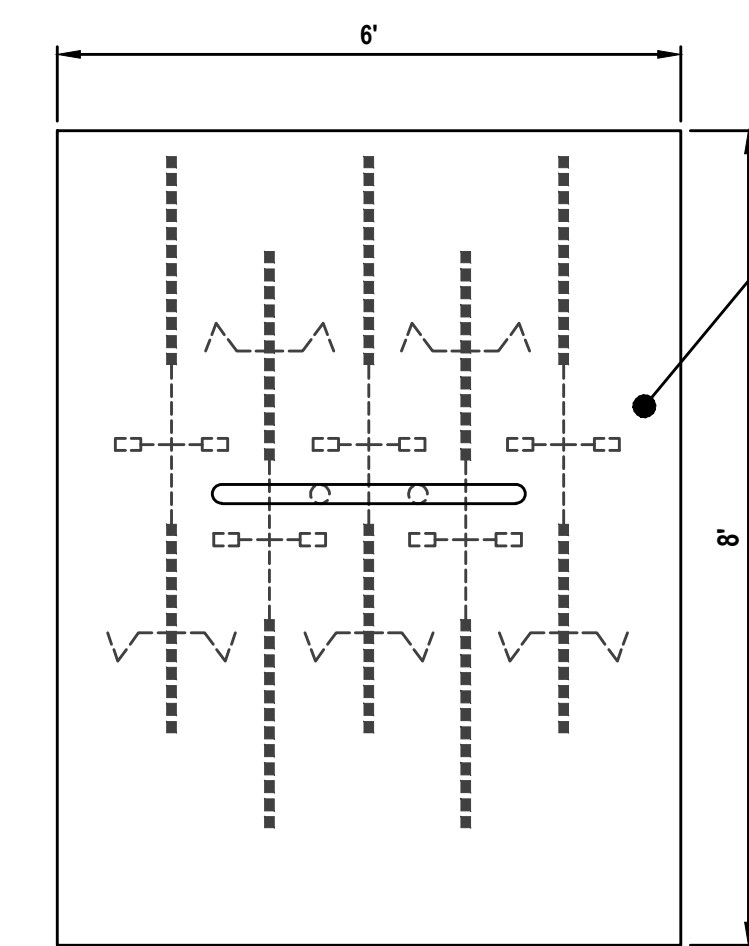
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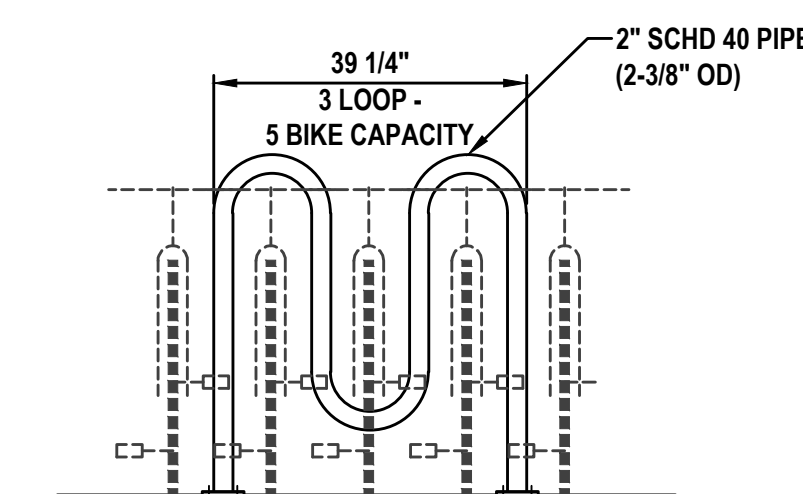
1. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.
2. SLOPE TO FIT DRIVEWAY

DROP CURB DETAIL

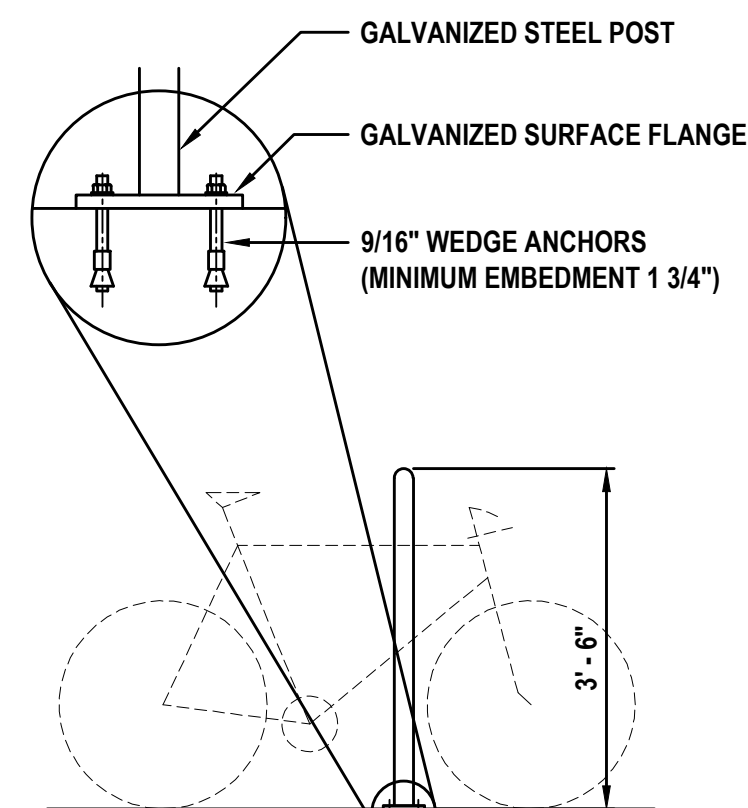
NOT TO SCALE



PLAN VIEW



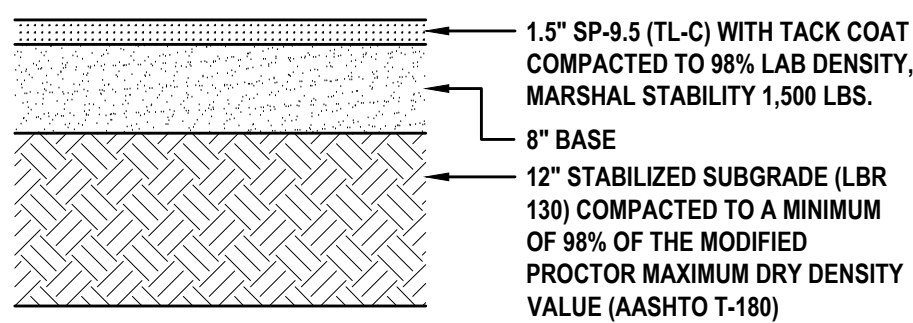
FRONT VIEW



SIDE VIEW

BICYCLE RACK DETAIL

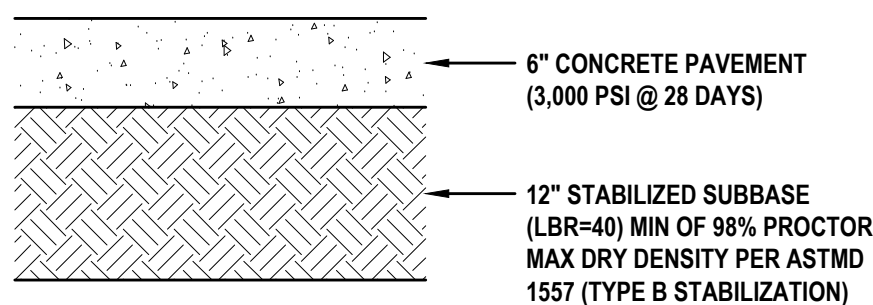
NOT TO SCALE



- 8" BASE:
1) CRUSHED CONCRETE (LBR=150) MIN OF 98% MODIFIED PROCTOR MAX DENSITY PER AASHTO T-180 (4" MAX. LIFTS)
2) LIMEROCK (LBR=100) MIN OF 98% MODIFIED PROCTOR MAX DENSITY PER AASHTO T-180 (4" MAX. LIFTS)

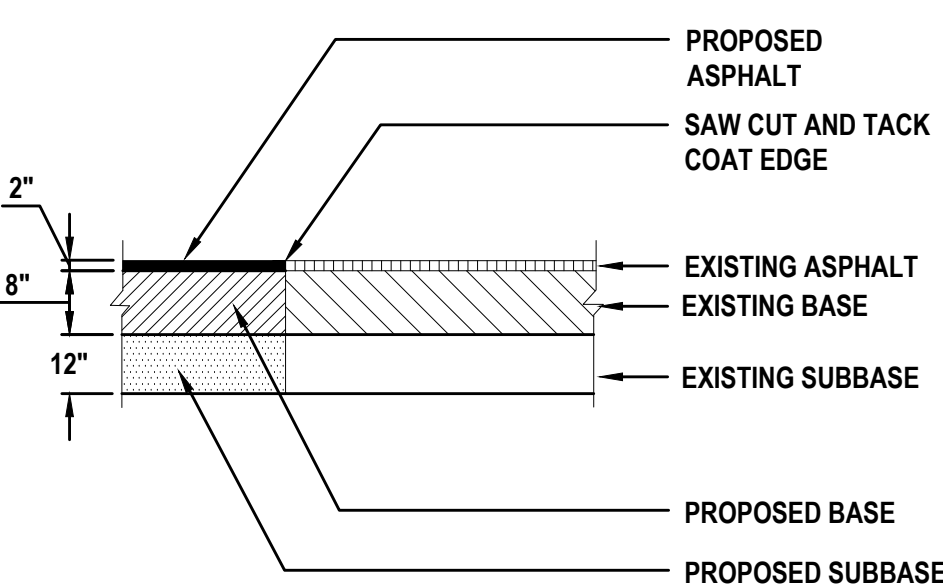
ASPHALT PAVEMENT

NOT TO SCALE



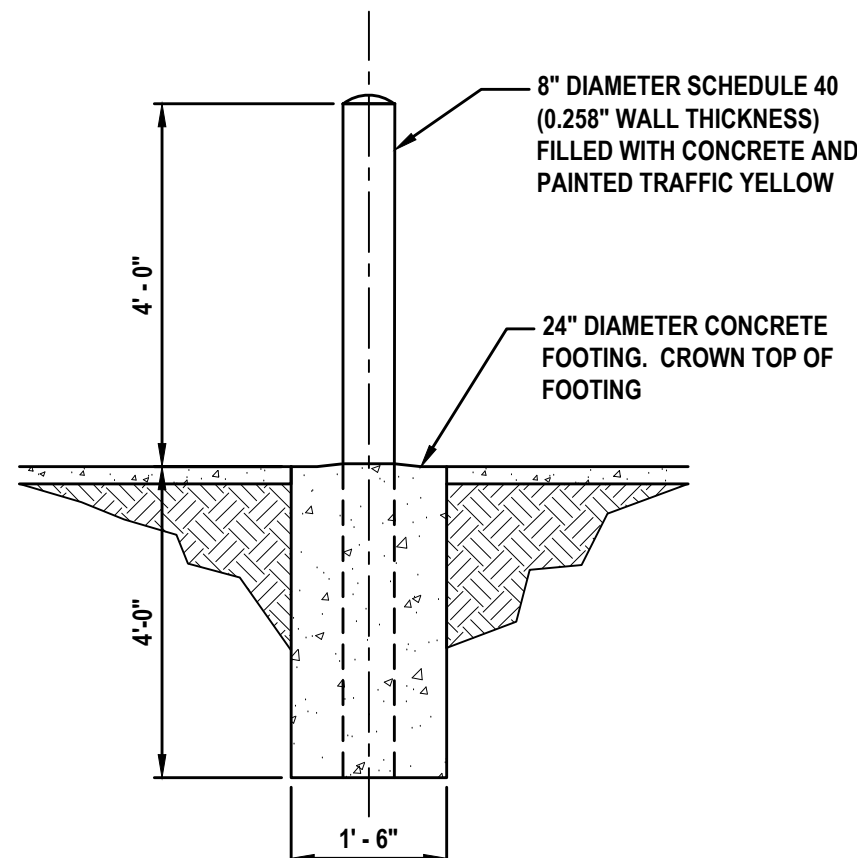
CONCRETE PAVEMENT

NOT TO SCALE



PAVEMENT BUTT JOINT DETAIL

NOT TO SCALE

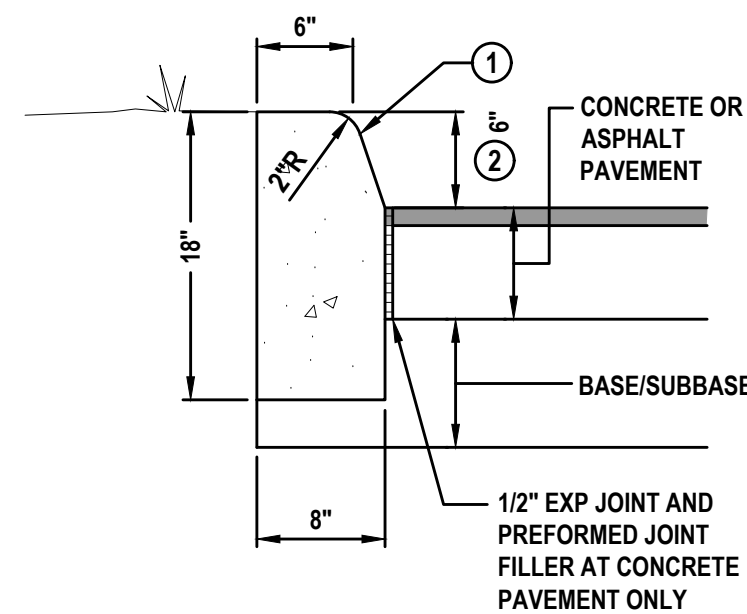


UTILITY BOLLARD DETAIL

NOT TO SCALE

CURB CONSTRUCTION NOTES

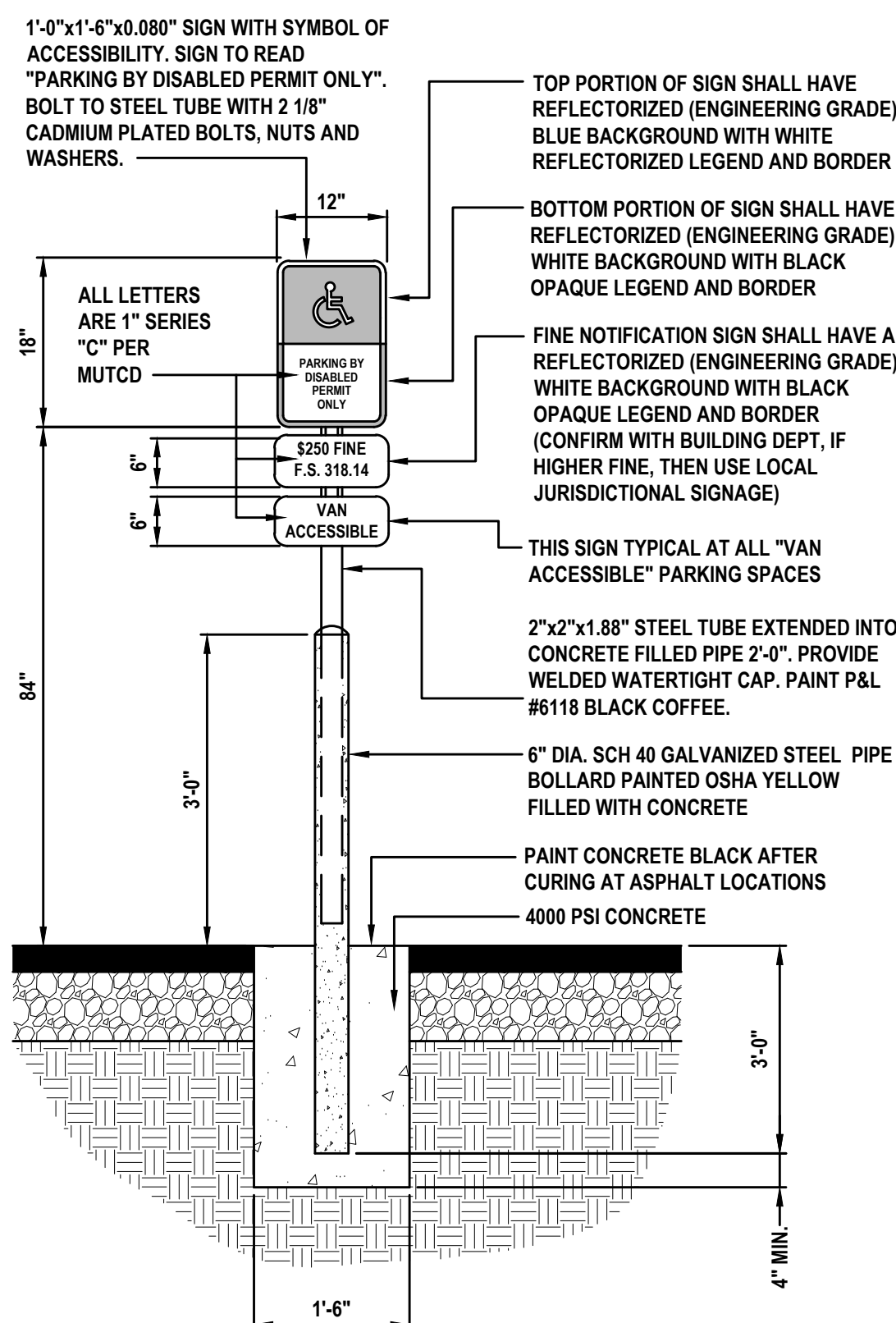
1. ALL CURBS TO BE CONSTRUCTED OF 28 DAY, 3000 P.S.I. CONCRETE.
2. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED EVERY 50', CONSTRUCTION JOINT REQUIRED EVERY 10' MAXIMUM (4" MINIMUM).
3. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED AT EACH SIDE OF ALL STORM INLET STRUCTURES AND AT ALL RADIUS POINTS.
4. 6" SUBBASE TO BE COMPACTED AND TESTED TO 98% DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST AND SHALL BE STABILIZED TO A MINIMUM L.B.R. 40.
5. EXPANSION JOINT MATERIAL MUST COVER ENTIRE CROSS SECTION OF CURB. IN NO INSTANCE SHALL EXTRUDED CURBS (DEFINED AS HEADER-TYPE CURBS INSTALLED DIRECTLY ON TOP OF PAVEMENT) BE PERMITTED.



1. PROVIDE CONTRACTION JOINTS @ 10' O.C. AND EXPANSION JOINTS @ 50' O.C. ALL JOINTS SEALED PER SPECIFICATIONS
2. 6" HEIGHT SHALL BE UNIFORM, IF HEIGHT VARIES ± 1/2" THEN CURB WILL BE REPLACED AT THE DISCRETION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

TYPE "D" CURB DETAIL

NOT TO SCALE



NOTE:

1. PARKING SPACE IDENTIFICATION SIGN SHALL CONFORM WITH CURRENT STATE, LOCAL AND FEDERAL CODES AND REGULATIONS.
2. ALL SIGNS SHALL BE DESIGNATED TO WITHSTAND 130 MPH WIND SPEED.

HANDICAP PARKING SIGN

NOT TO SCALE

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DATE	DESCRIPTION
11/27/23	CITY COMMENTS
2/20/23	CITY COMMENTS

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Phone (386) 872-7794
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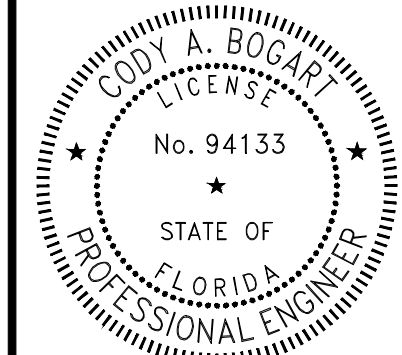
MISCELLANEOUS DETAILS

SHORES DEPOT

2616 SOUTH ATLANTIC AVENUE
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DRAWN BY:	GAB
CHECKED BY:	HHN
SCALE:	N.T.S.
DRAWING NUMBER	

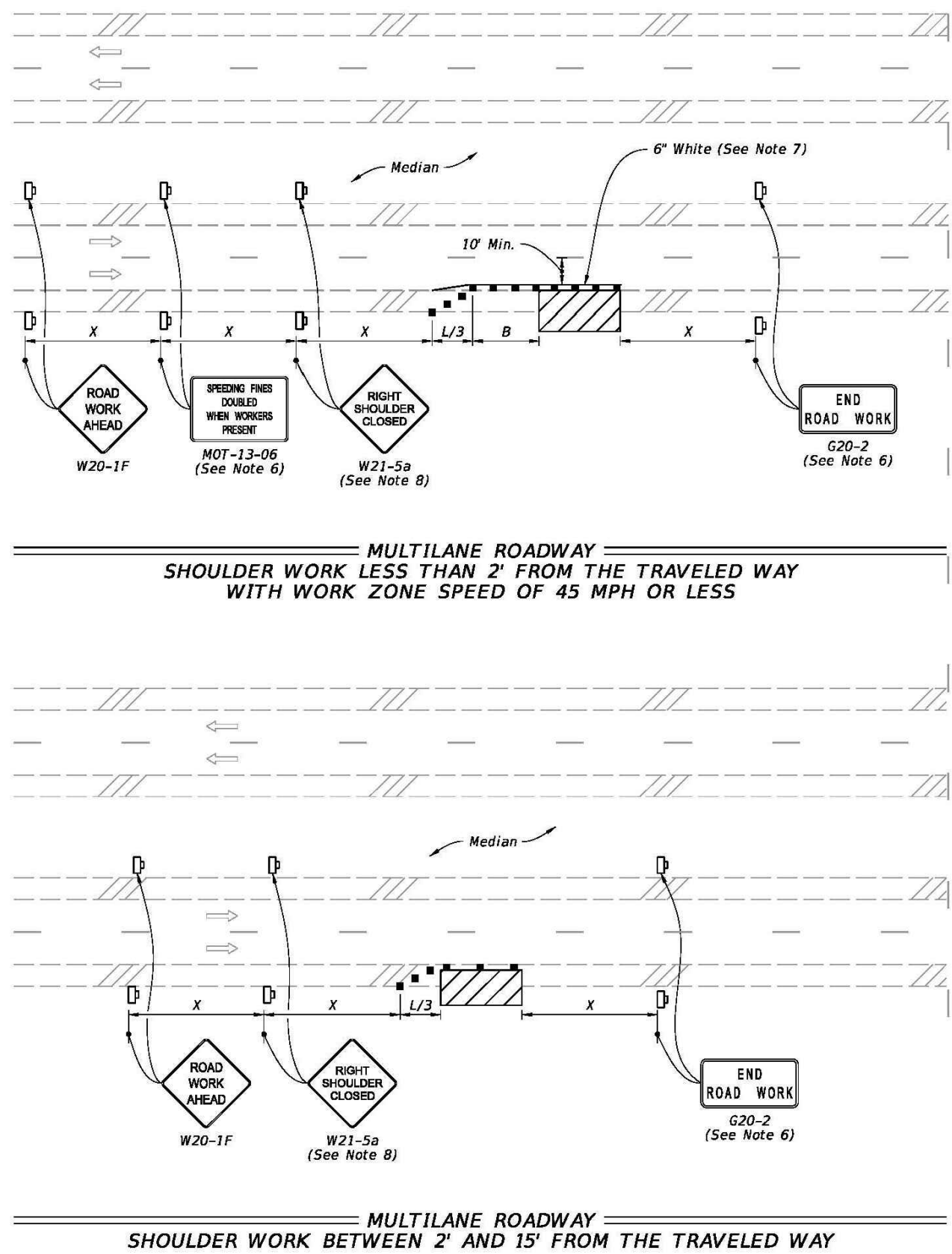
13

11/01/2023 8:27:22 AM

LAST REVISION	DESCRIPTION:	FY 2024-25 STANDARD PLANS	INDEX	SHEET
11/01/20			102-602	2 of 2

SYMBOLS: Work Area Channelizing Device (See Index 102-600) Work Zone Sign Lane Identification and Direction of Traffic	NOTES: 1. L = Taper Length B = Buffer Length X = Work Zone Sign Distance See Index 102-600 for "L", "B", "X", channelizing device spacing values. 2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'. 3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane. 4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less. 5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.	SYMBOLS: Work Area Temporary Pedestrian Way Channelizing Device (See Index 102-600) Pedestrian Longitudinal Channelizing Device (LCD) Work Zone Sign Arrow Board Crash Cushion Lane Identification and Direction of Traffic	PEDESTRIAN DIVERSION - OPTION 1 (Temporary Barrier Shown, Low Profile Barrier Similar) PEDESTRIAN DIVERSION - OPTION 2 (Work Zone Speed 45 mph or Less) PEDESTRIAN SPECIAL DETOUR	FY 2024-25 STANDARD PLANS SIDEWALK CLOSURE INDEX 102-660 SHEET 2 of 2
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11/01/2023 10:50:04 AM

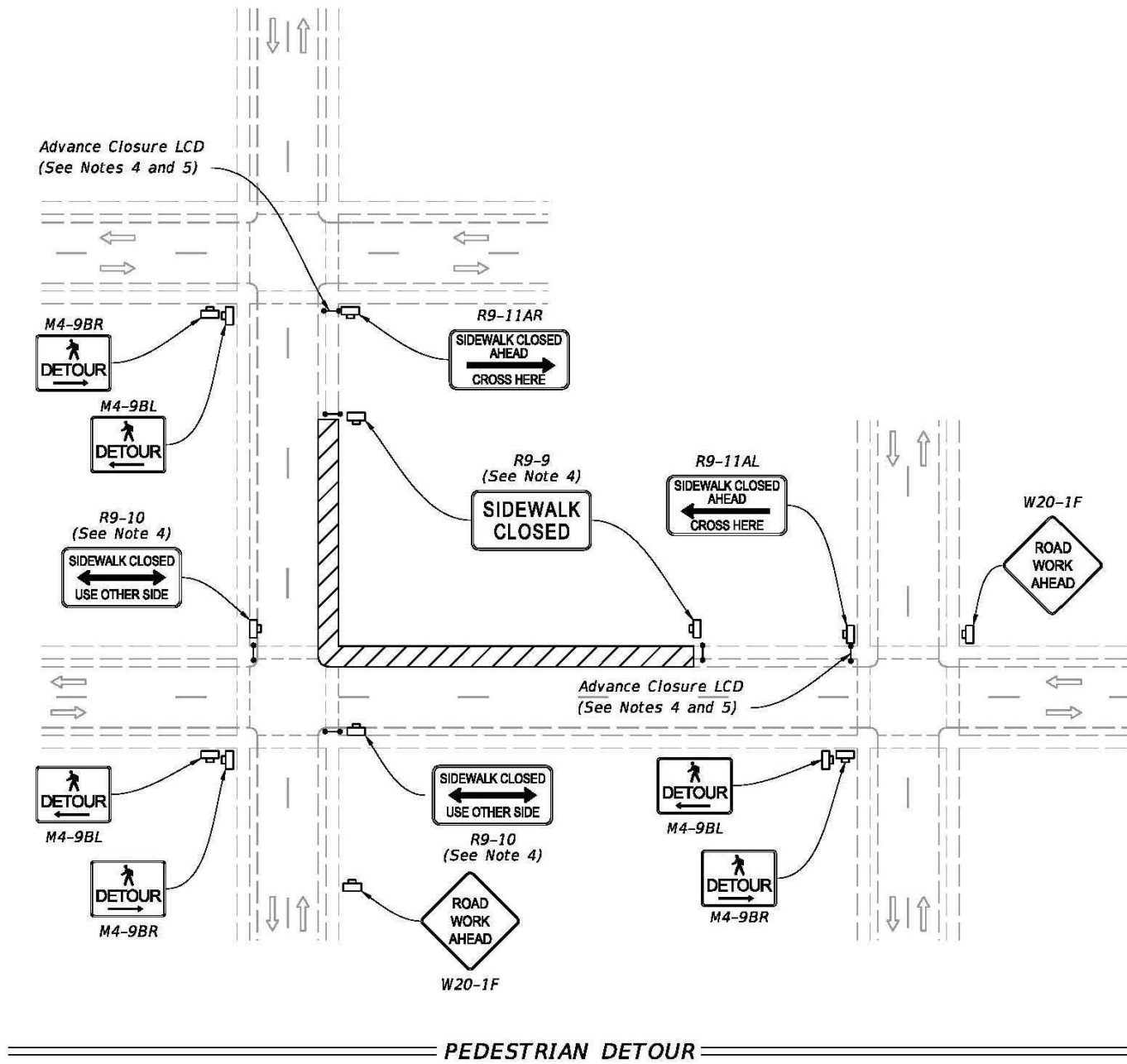


NOTES:

- Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
- Place pedestrian LCDs across the full width of the closed sidewalk.
- For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
- "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.
- Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e.g., transit stops, residences, or business entrances).

SYMBOLS:

- Work Area
- Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Lane Identification and Direction of Traffic



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LAST REVISION	DESCRIPTION:	FY 2024-25 STANDARD PLANS	INDEX	SHEET
11/01/20			102-660	1 of 2

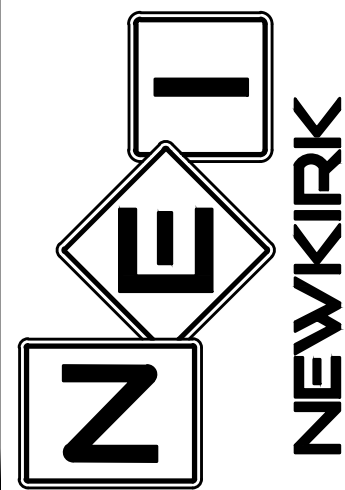
NOTES: 1. L = Taper Length B = Buffer Length X = Work Zone Sign Distance See Index 102-600 for "L", "B", "X", channelizing device spacing values. 2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'. 3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane. 4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less. 5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.	SYMBOLS: Work Area Temporary Pedestrian Way Channelizing Device (See Index 102-600) Pedestrian Longitudinal Channelizing Device (LCD) Work Zone Sign Arrow Board Crash Cushion Lane Identification and Direction of Traffic	PEDESTRIAN DIVERSION - OPTION 1 (Temporary Barrier Shown, Low Profile Barrier Similar) PEDESTRIAN DIVERSION - OPTION 2 (Work Zone Speed 45 mph or Less) PEDESTRIAN SPECIAL DETOUR	FY 2024-25 STANDARD PLANS SIDEWALK CLOSURE INDEX 102-660 SHEET 1 of 2
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11/27/23	CITY COMMENTS

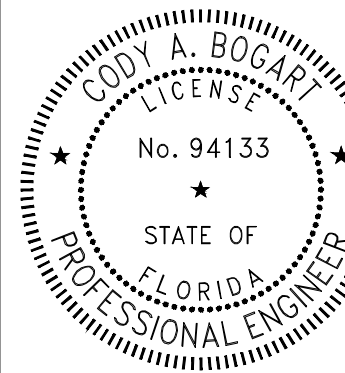
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**MAINTENANCE OF TRAFFIC
SHORES DEPOT**
2616 SOUTH ATLANTIC AVENUE
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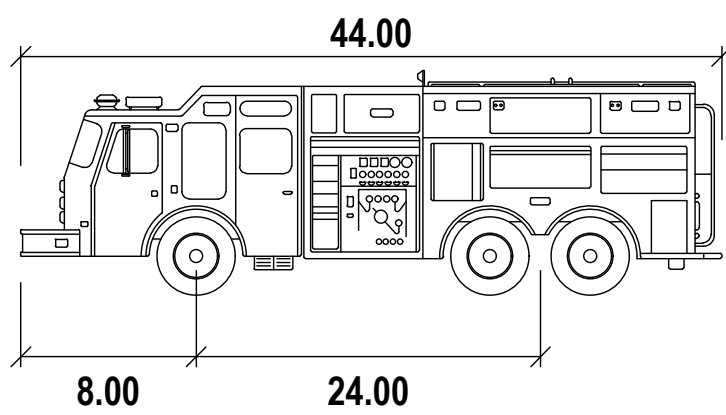
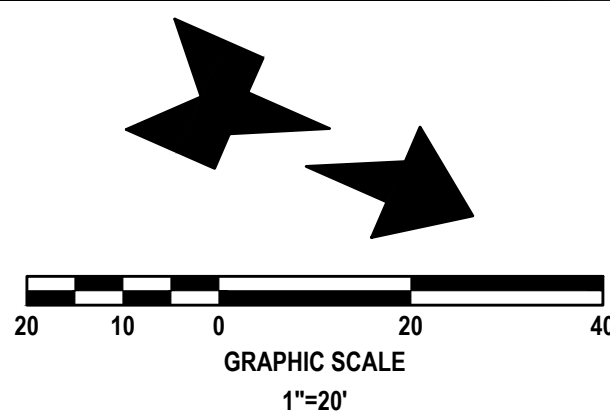
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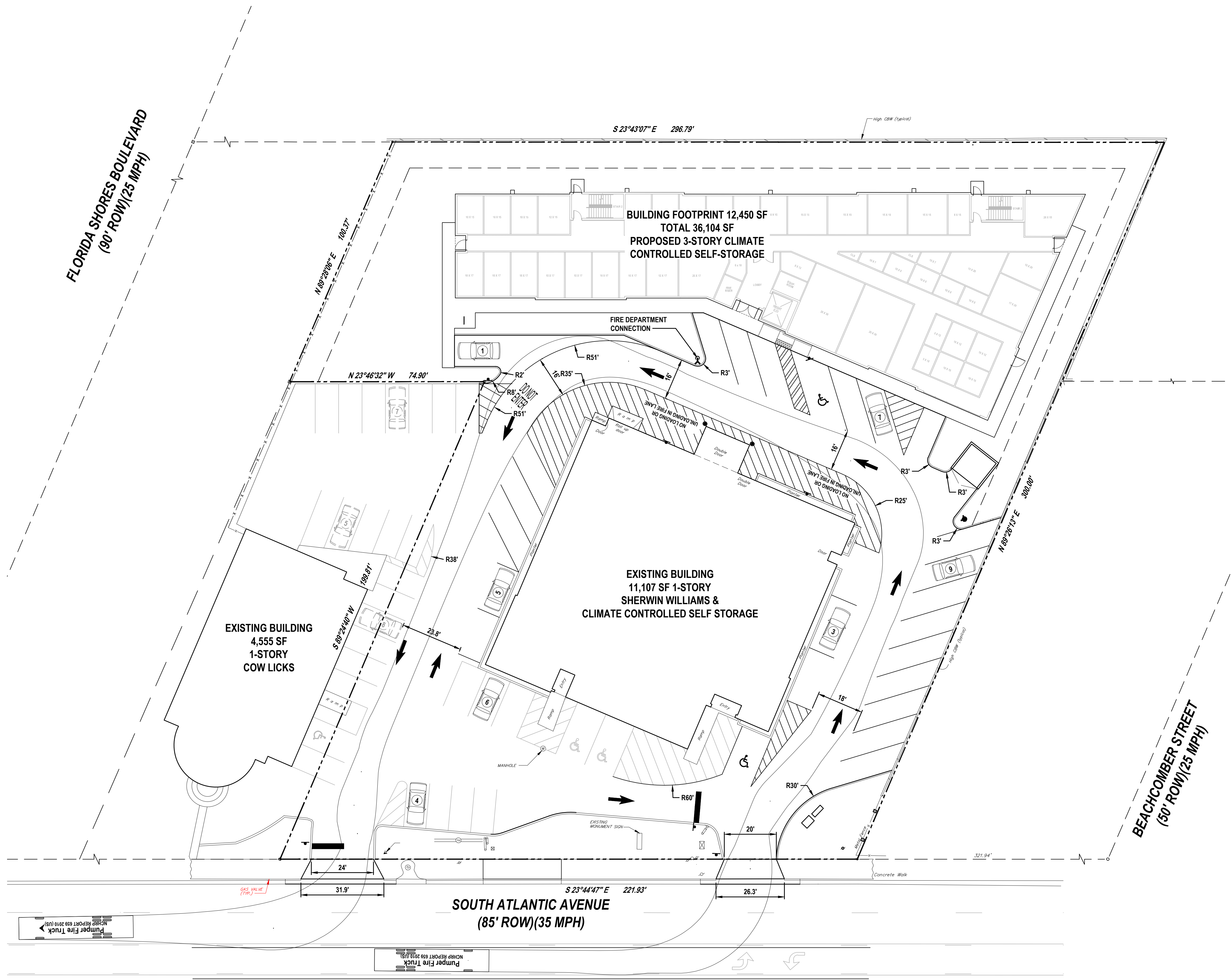
PROJECT No:	2022-159
DATE:	NOVEMBER 2023
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DRAWN BY:	GAB
CHECKED BY:	HHN
SCALE:	N.T.S.
DRAWING NUMBER	

14



Pumper Fire Truck

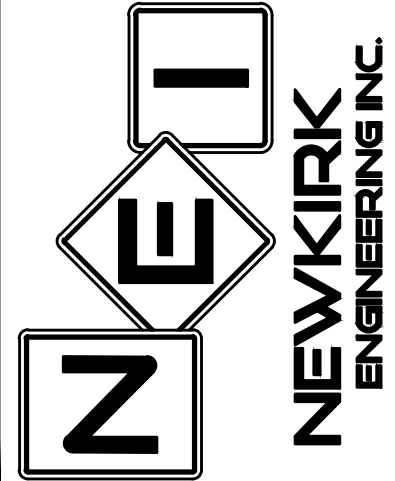
	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 37.8



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DATE	DESCRIPTION

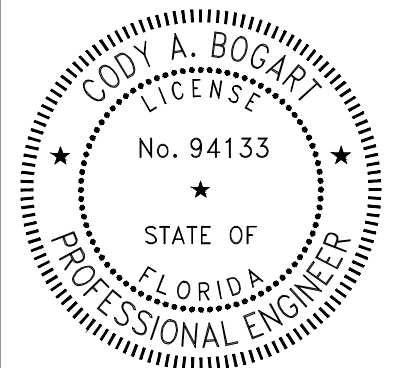
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AUTOTURN PLAN - FIRE
SHORES DEPOT
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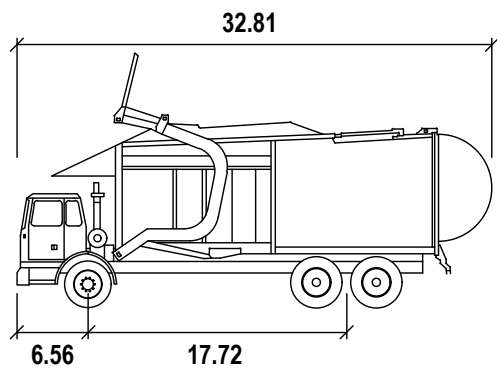
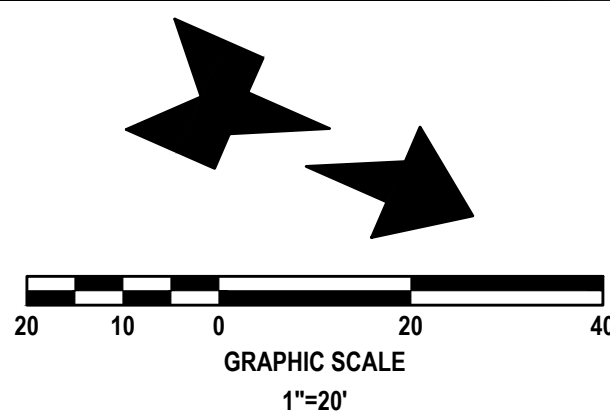


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DATE:	NOVEMBER 2023
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DRAWN BY:	GAB
CHECKED BY:	HHN
SCALE:	1"=20'

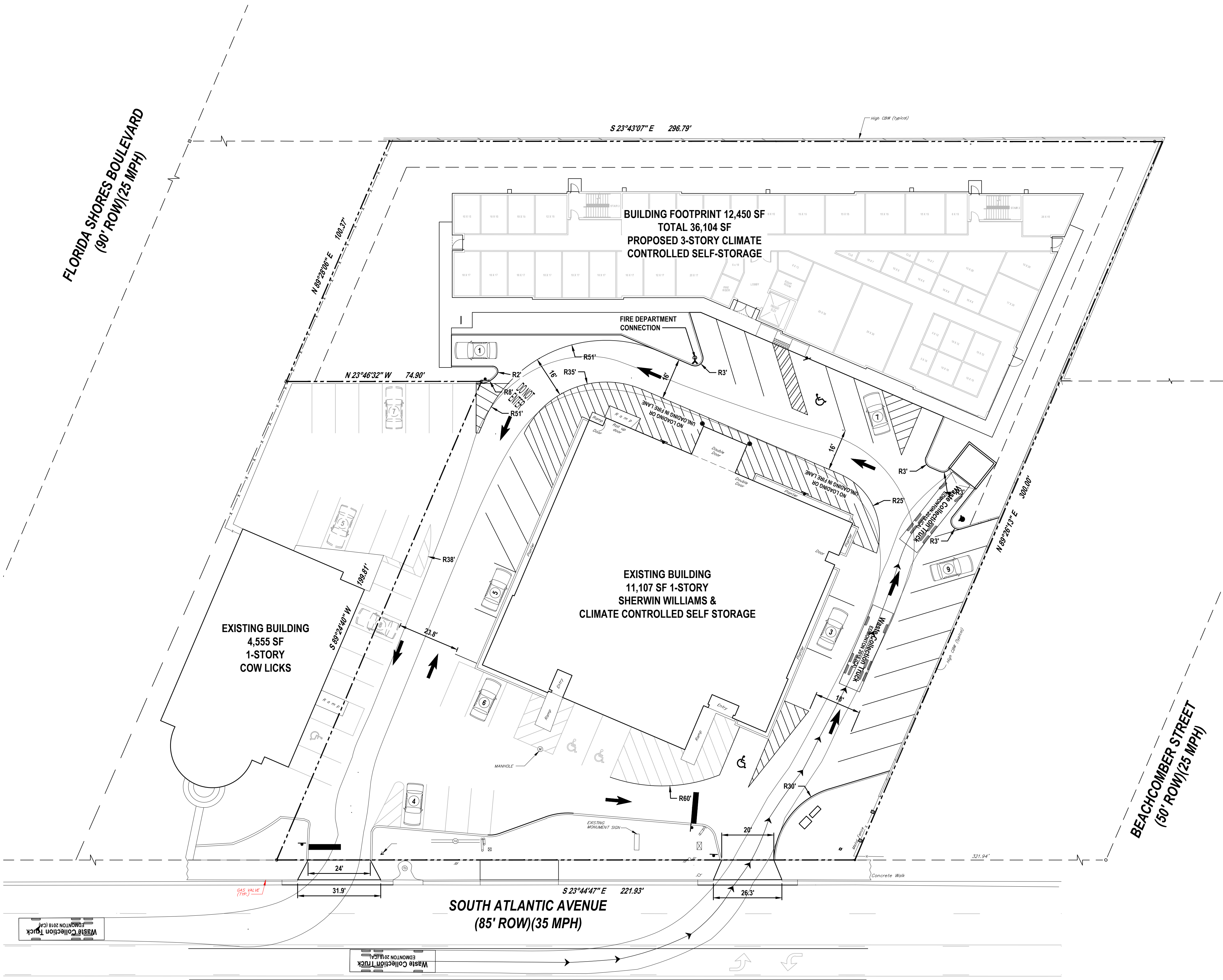
DRAWING NUMBER

15



Waste Collection Truck

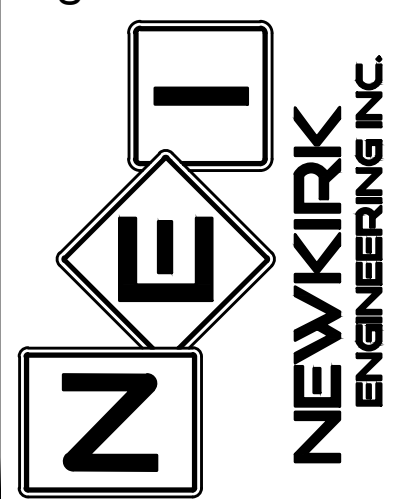
	feet
Width	: 6.53
Track	: 8.53
Lock to Lock Time	: 6.0
Steering Angle	: 27.7



REVISIONS

DATE	DESCRIPTION

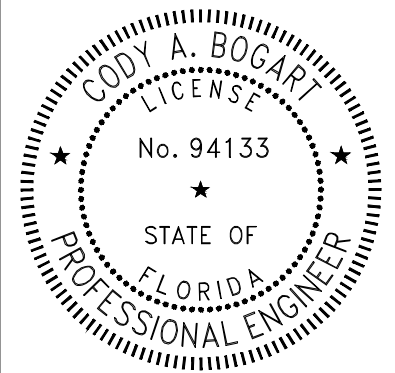
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AUTOTURN PLAN - TRASH
SHORES DEPOT
2616 SOUTH ATLANTIC AVENUE
DAYTONA BEACH SHORES, FL 32118

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CHECKED BY:	HHN
SCALE:	1"=20'

DRAWING NUMBER

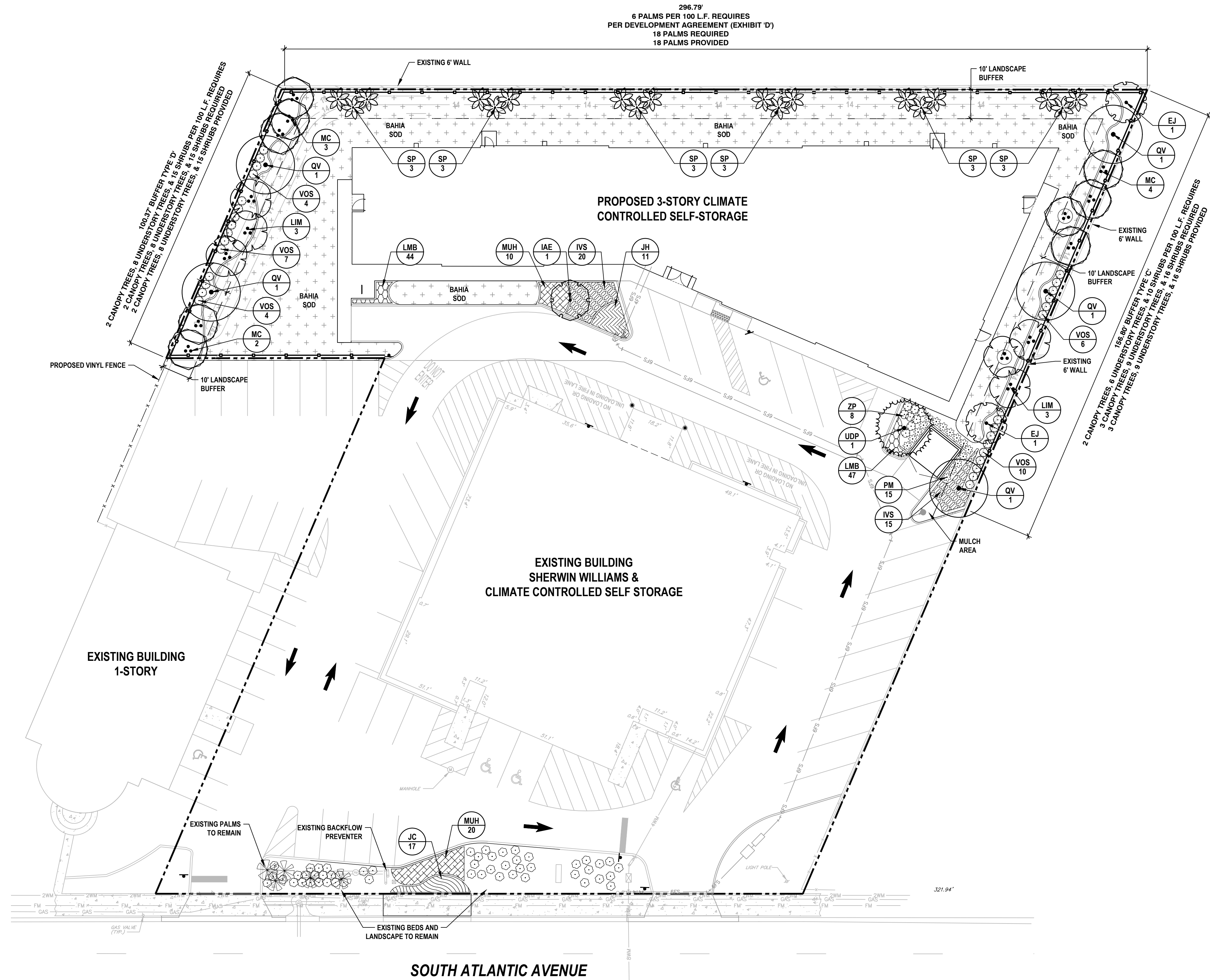
16

PLANT SPECIFICATION NOTES

1. PLANT DESCRIPTIONS ARE FOR MINIMUM ACCEPTABLE SPECIFICATIONS. ALL CRITERIA LISTED FOR CONTAINER SIZE, CALIPER, HEIGHT, SPREAD, ETC. MUST BE MET FOR PLANT MATERIAL ACCEPTANCE. FOR EXAMPLE, IF A THREE (3) GALLON SHRUB DOES NOT MEET THE HEIGHT OR SPREAD SPECIFICATION, IT WILL NOT BE ACCEPTED.
2. IF SPECIFIED PLANTS ARE UNAVAILABLE AT THE TIME OF CONSTRUCTION, CONTRACTOR MAY REPLACE SPECIFIED PLANTS WITH PLANTS APPROVED BY LANDSCAPE ARCHITECT AND CITY STAFF.

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
PALM TREES					
SP	18	SABAL PALMETTO	CABBAGE PALMETTO	6', 8', 10' G.W.	STAGGERED HEIGHTS
SHADE TREES					
QV	5	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	1.5" CAL., 8' HT.	
UDP	1	ULMUS PARVIFOLIA 'DRAKE'	DRAKE CHINESE ELM	1.5" CAL., 8' HT.	
UNDERSTORY TREES					
EJ	2	ERIOBOTRYA JAPONICA	LOQUAT	1.5" CAL., 8' HT.	
IAE	1	ILEX X ATTENUATA 'EAGLESTON'	EAGLESTON HOLLY	1.5" CAL., 8' HT.	
LIM	6	LAGERSTROEMIA INDICA X FAURIEI	MUSKOGEE CRAPPE MYRTLE	1.5" CAL., 8' HT.	M.T. LILAC
MC	9	'MUSKOGEE' MYRICA CERIFERA 'PUMILA'	DWARF WAX MYRTLE	1.5" CAL., 8' HT.	M.T.
SHRUBS					
PM	15	PODOCARPUS MACROPHYLLUS	YEW PINE	3 GAL., 24" HT. X 6" SPRD.	36" O.C.
VOS	31	VIBURNUM OBOVATUM 'SELECT'	WALTER'S VIBURNUM	3 GAL., 24" HT. X 15" SPRD.	36" O.C.
ZP	8	ZAMIA PUMILA	COONTIE CYCAD	3 GAL.	36" O.C.
GROUND COVERS					
IVS	35	ILEX VOMITORIA 'STOKES DWARF'	STOKES DWARF YAUPON HOLLY	3 GAL., 12" HT. X 12" SPR.	36" O.C.
JC	17	JUNIPERUS CONFERTA	SHORE JUNIPER	1 GAL.	30" O.C.
JH	11	JUNIPERUS HORIZONTALIS 'BLUE RUG'	BLUE RUG JUNIPER	3 GAL.	36" O.C.
LMB	91	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	1 GAL.	12" O.C.
MUH	30	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL.	36" O.C.



MINIMUM TREES REQUIRED	
SITE AREA	31,207
TREES REQUIRED (1/2500 S.F.)	12
TREES PROPOSED	30

VEHICULAR USE ARE LANDSCAPE REQUIREMENTS	
NUMBER OF PARKING SPACES	7
LANDSCAPE AREA REQUIRED (15 S.F. PER PARKING SPACE) x 7	105
LANDSCAPE AREA PROVIDED	611

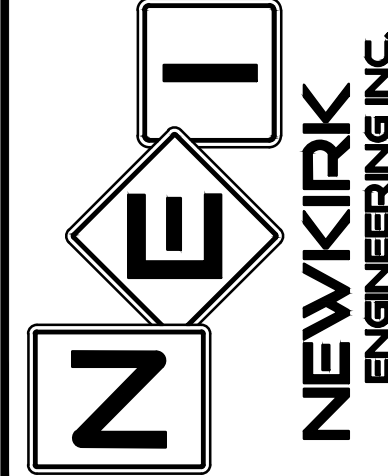
LEGEND



REVISIONS

DATE	DESCRIPTION
11/27/23	CITY COMMENTS
2/19/24	CITY COMMENTS

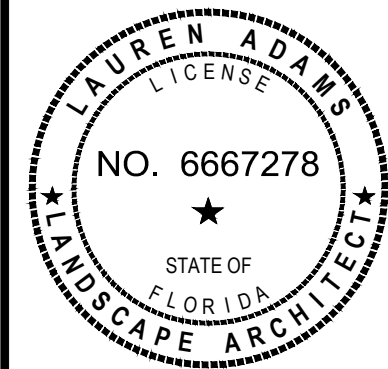
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LANDSCAPE PLAN
SHORES DEPOT
2616 SOUTH ATLANTIC AVENUE
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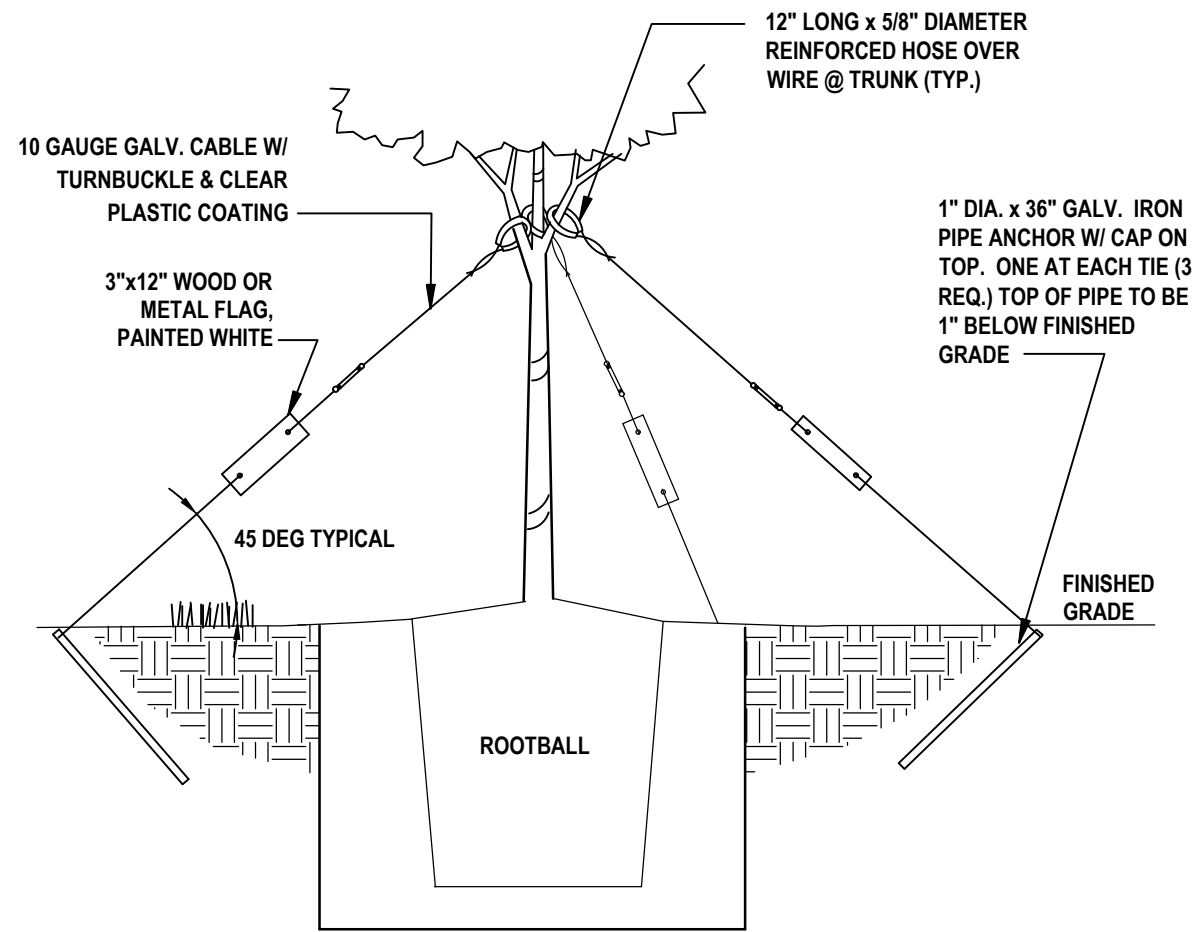
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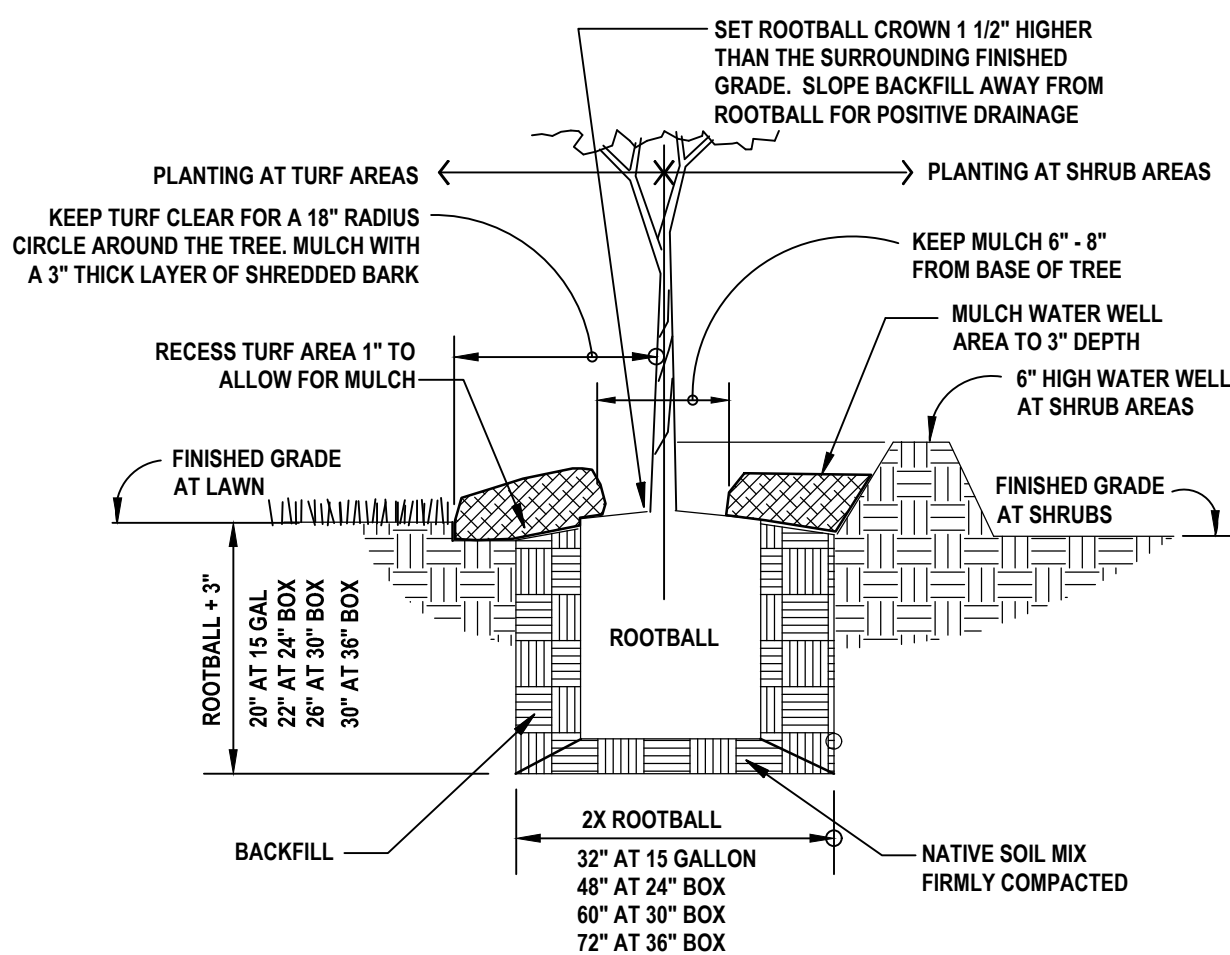
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PROJECT No:	2022-159
DATE:	SEPTEMBER 2023
DESIGN BY:	LAA
DRAWN BY:	BVV
CHECKED BY:	LAA
SCALE:	1" = 20'
DRAWING NUMBER	L1

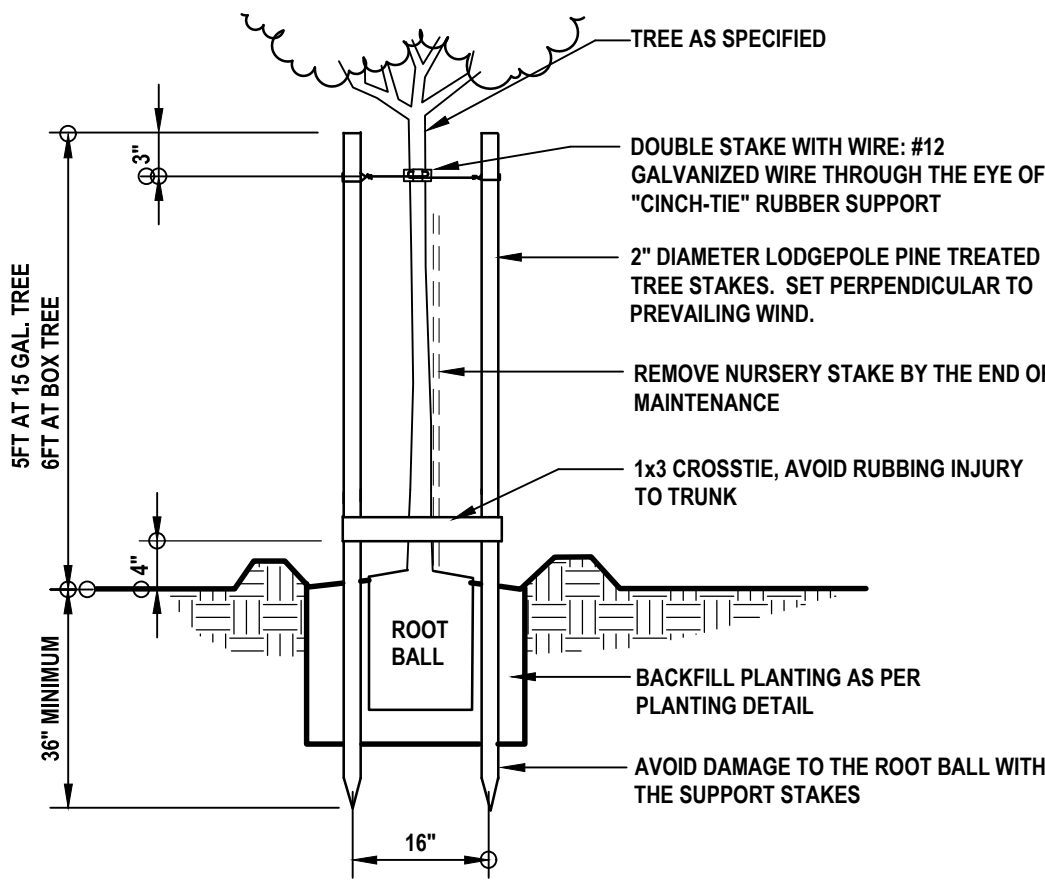
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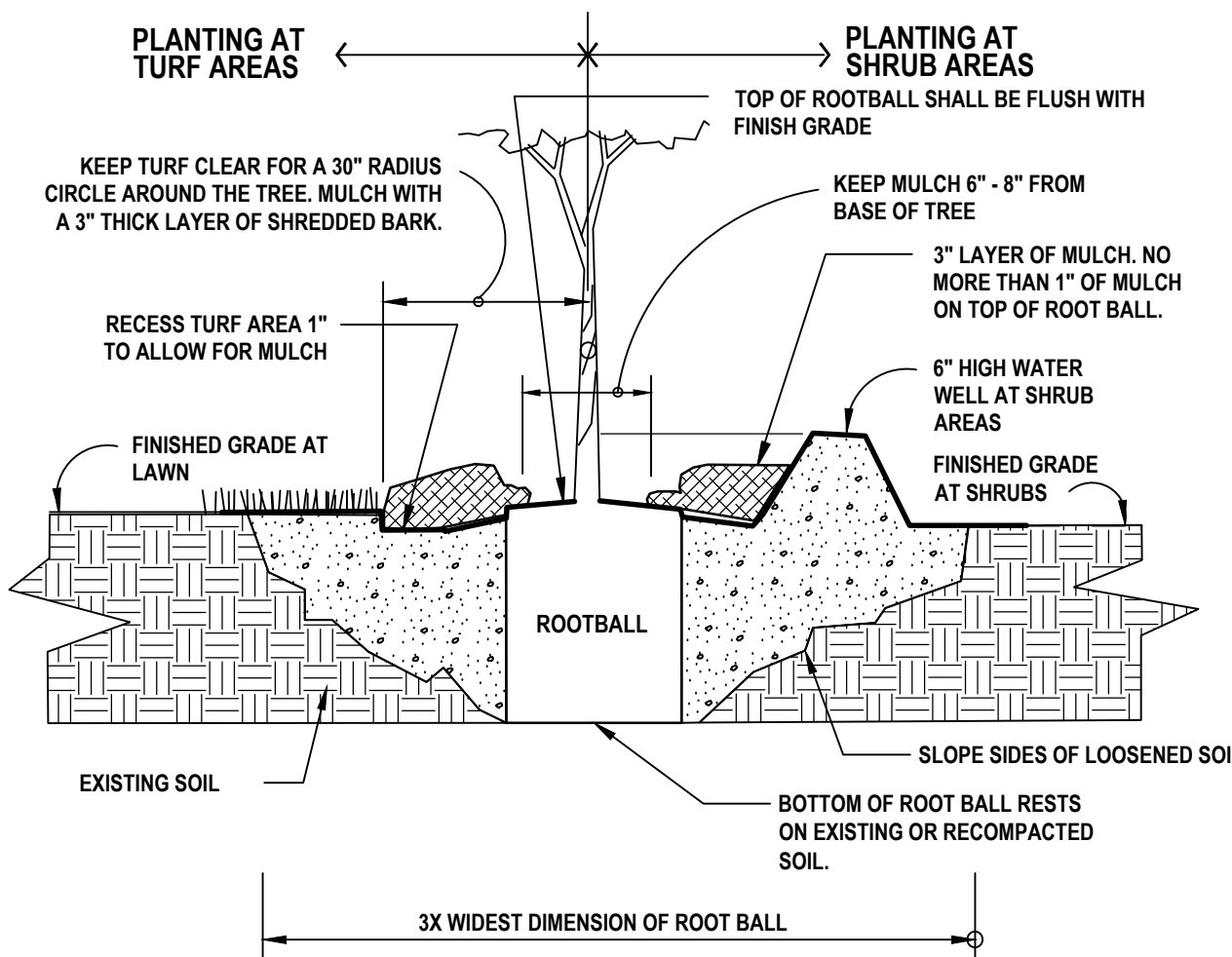
STAKING DETAIL



PLANT PIT DETAIL



STAKING DETAIL

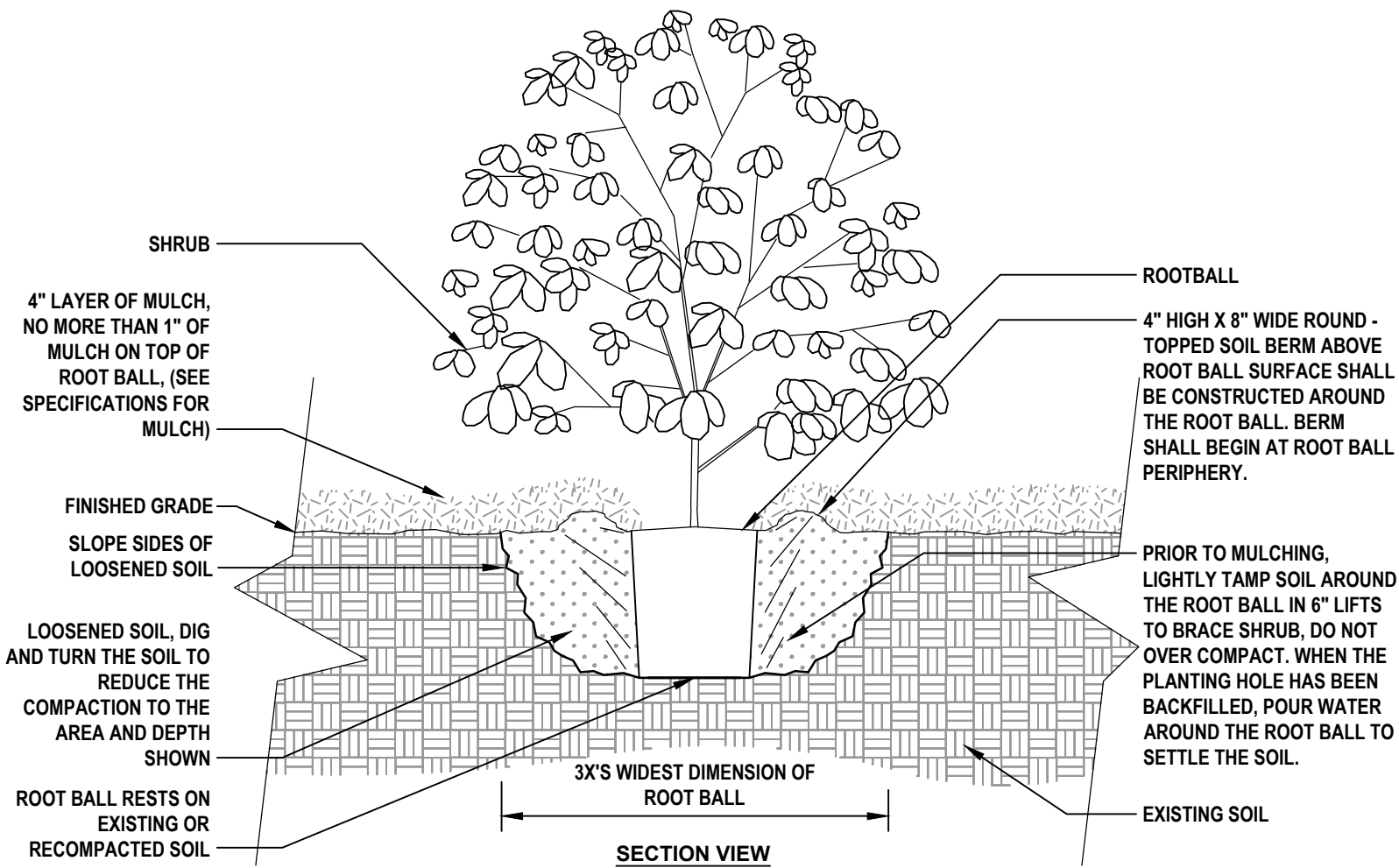


PLANT PIT DETAIL

1 TREE PLANTING DETAIL

1" = 1'-0"

P-CO-2022-159-01



NOTES:

- SHRUBS SHALL BE OF QUALITY PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATIONS.
- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

3 SHRUB PLANTING DETAIL

NTS

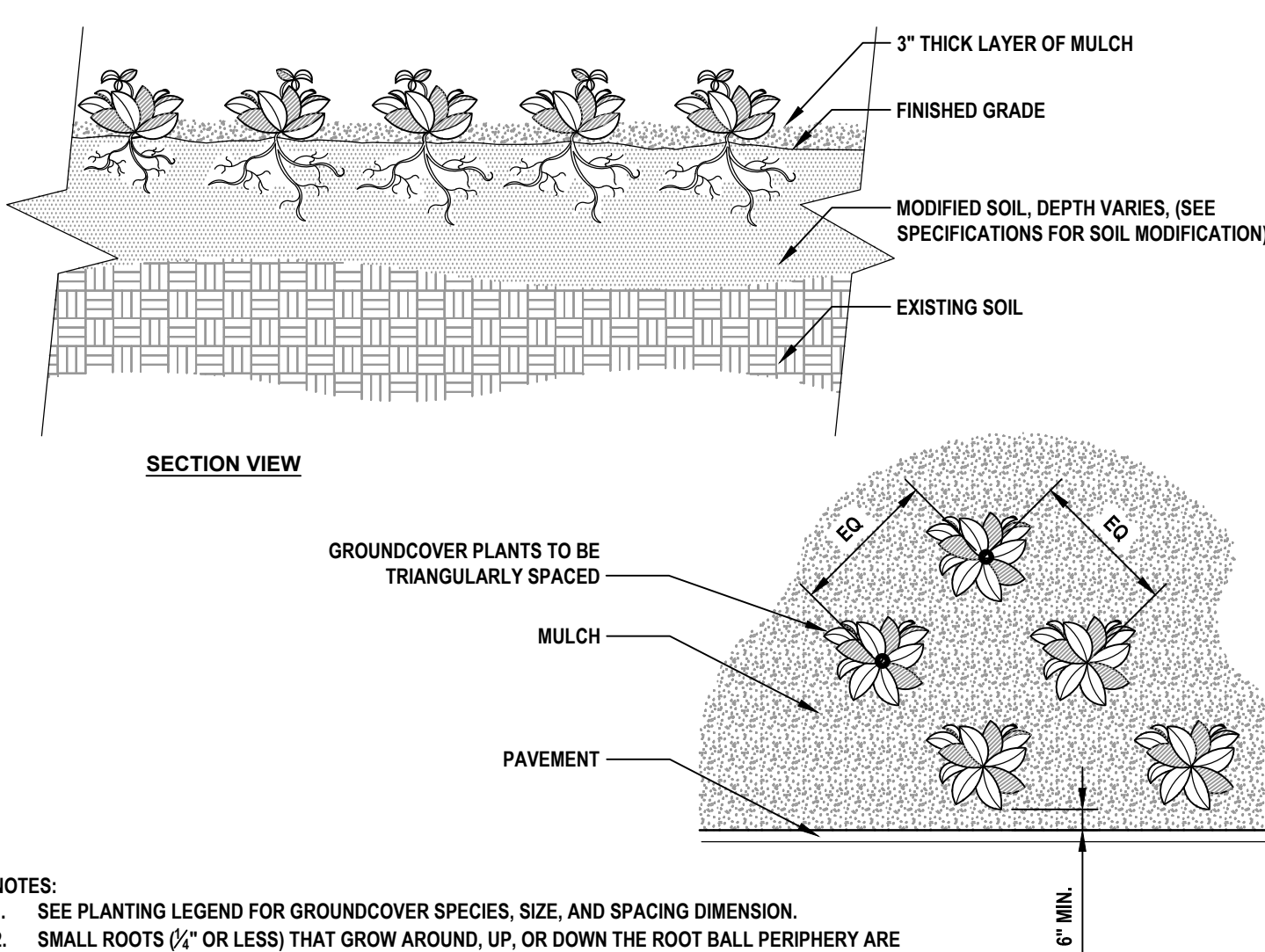
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2 SMALL TREE PLANTING DETAIL

1" = 1'-0"

P-CO-2022-159-03



NOTES:

- SEE PLANTING LEGEND FOR GROUND COVER SPECIES, SIZE, AND SPACING DIMENSION.
- SMALL ROOTS (1/2" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).
- SETTLE SOIL AROUND ROOT BALL OF EACH GROUND COVER PRIOR TO MULCHING.

4 GROUND COVER LAYOUT

1/16" = 1'-0"

P-CO-2022-159-02

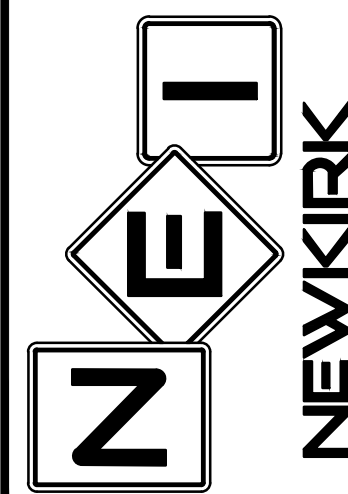
LANDSCAPE NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA #1 OR BETTER AS DESCRIBED IN THE CURRENT "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, OR THEIR EQUAL AS DETERMINED BY THE LANDSCAPE ARCHITECT. PLANT MATERIAL SHALL BE CLEARLY IDENTIFIED AS FLORIDA #1 OR BETTER ON EITHER LABELS OR INVOICES.
- ALL PLANT SPECIFICATIONS MUST BE MET OR EXCEEDED. SIZES IN PLANT SCHEDULE ARE MINIMUMS AND EACH MUST BE MET. CONTAINERS MAY NEED TO BE UP SIZED TO MEET ALL SPECIFICATIONS.
- ALL MULCH SHALL BE PINE BARK AND INSTALLED 3" DEEP. TREES IN SOD TO BE IN A 5' MINIMUM-MULCHED RING. ALL PALMS TO BE IN A 3' MULCH RING. MULCH TO BE INSTALLED 6" FROM TRUNK AND 2" FROM PLANTS.
- SOD SHALL BE BAHIA SOD AND SHALL BE 85% WEED-FREE. ALL SOD SHALL BE INSTALLED WITH TIGHT JOINTS, ROLLED AND FERTILIZED.
- ALL DIMENSIONS SHALL BE FIELD-CHECKED BY THE LANDSCAPE CONTRACTOR PRIOR TO CONSTRUCTION, WITH ANY DISCREPANCIES REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
- THE PLANT MATERIALS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE LANDSCAPE CONTRACTOR; SHOULD THERE BE ANY DISCREPANCY BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN WILL PREVAIL.
- ALL MATERIALS MUST BE AS SPECIFIED ON THE LANDSCAPE PLAN. IF MATERIALS OR LABOR DO NOT ADHERE TO THE SPECIFICATIONS, THEY WILL BE REJECTED AT NO ADDITIONAL COST TO THE OWNER.
- NO SUBSTITUTIONS OR CHANGES OF ANY KIND WILL BE ALLOWED AT THE TIME OF BIDDING SO AS TO PROVIDE FOR FAIR COMPARISON.
- THE CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND CONDITIONS PRIOR TO HIS COMMENCEMENT OF THE ANY WORK.
- ALL BUILDING MATERIALS AND LABOR SHALL CONFORM TO THE FLORIDA BUILDING CODE AND ALSO TO ALL LOCAL CODES THAT HAVE JURISDICTION.
- ALL PERMIT AND VARIANCE APPLICATIONS SHALL BE MADE BY THE CONTRACTOR.
- EQUIPMENT SHALL BE OPERATED IN A MANNER AS NOT TO INJURE OR DESTROY ANY TREES SHOWN TO REMAIN. CONTRACTOR SHALL NOT CAUSE OR ALLOW THE CLEANING OF EQUIPMENT OR MATERIAL WITHIN THE DRIP LINE OF ANY TREE OR GROUPS OF TREES TO BE RETAINED OR THOSE PROPOSED. NOR SHALL THE CONTRACTOR ALLOW THE DISPOSAL OF WASTE MATERIAL, SUCH AS PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR ANY OTHER MATERIAL HARMFUL TO THE LIFE OF A TREE WITHIN THE DRIP LINE OF ANY TREE OR GROUP OF TREES. NO ATTACHMENT, WIRES (OTHER THAN PROTECTIVE GUY WIRES), SIGNS, OR PERMITS MAY BE FASTENED TO A TREE.
- ANY EXISTING TREES CREDITED TOWARDS REQUIRED BUFFERS OR LANDSCAPE REQUIREMENTS REMOVED FOR ANY REASON SHALL BE REPLACED WITH TREES MEETING CITY APPROVAL WITH REGARDS TO SPECIES AND SIZE.
- ALL QUESTIONS CONCERNING THE PLAN AND/OR SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT (386) 872-7794.
- ALL TREES AND PALMS MUST BE STAKED USING THE DETAILS PROVIDED OR ARBORGUY STAKING SYSTEMS. ANY STAKING SYSTEM NOT INCLUDED MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- ALL UNIMPROVED AREA NOT OTHERWISE PLANTED OR MULCHED SHALL BE SODDED WITH BAHIA UNLESS OTHERWISE NOTED ON THE LANDSCAPE PLAN.
- THE CONTRACTOR SHALL GUARANTEE ALL INSTALLED PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE IN WRITING BY OWNER OR OWNER'S REPRESENTATIVE. ALL PLANT MATERIAL SHALL BE WATERED REGULARLY AS NEEDED UNTIL ESTABLISHED. FOR TREES, UP TO ONE YEAR AND FOR SHRUBS/GROUND COVER, GENERALLY 2 -3 MONTHS.
- REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASS, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED.
- ALL NOXIOUS OR EXOTIC VEGETATION THAT DETRACTS FROM THE APPEARANCE OF THE EXISTING OR PLANTED VEGETATION WITHIN THE TREE PROTECTION AREA OR BUFFERS SHALL BE REMOVED. THE EDGE OF THE AREAS TO REMAIN NATURAL SHALL BE MULCHED 5' IN AND A CURVILINEAR BED LINE SHALL BE CREATED ADJACENT TO SODDED AREAS.

REVISIONS

DATE	DESCRIPTION
11/27/23	CITY COMMENTS
2/19/24	CITY COMMENTS

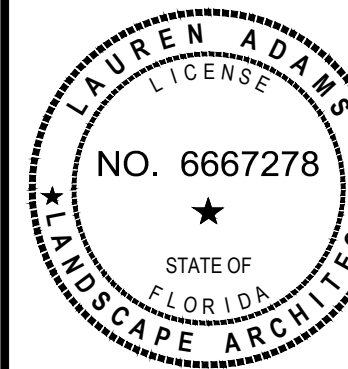
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LANDSCAPE DETAILS
AND NOTES
SHORES DEPOT
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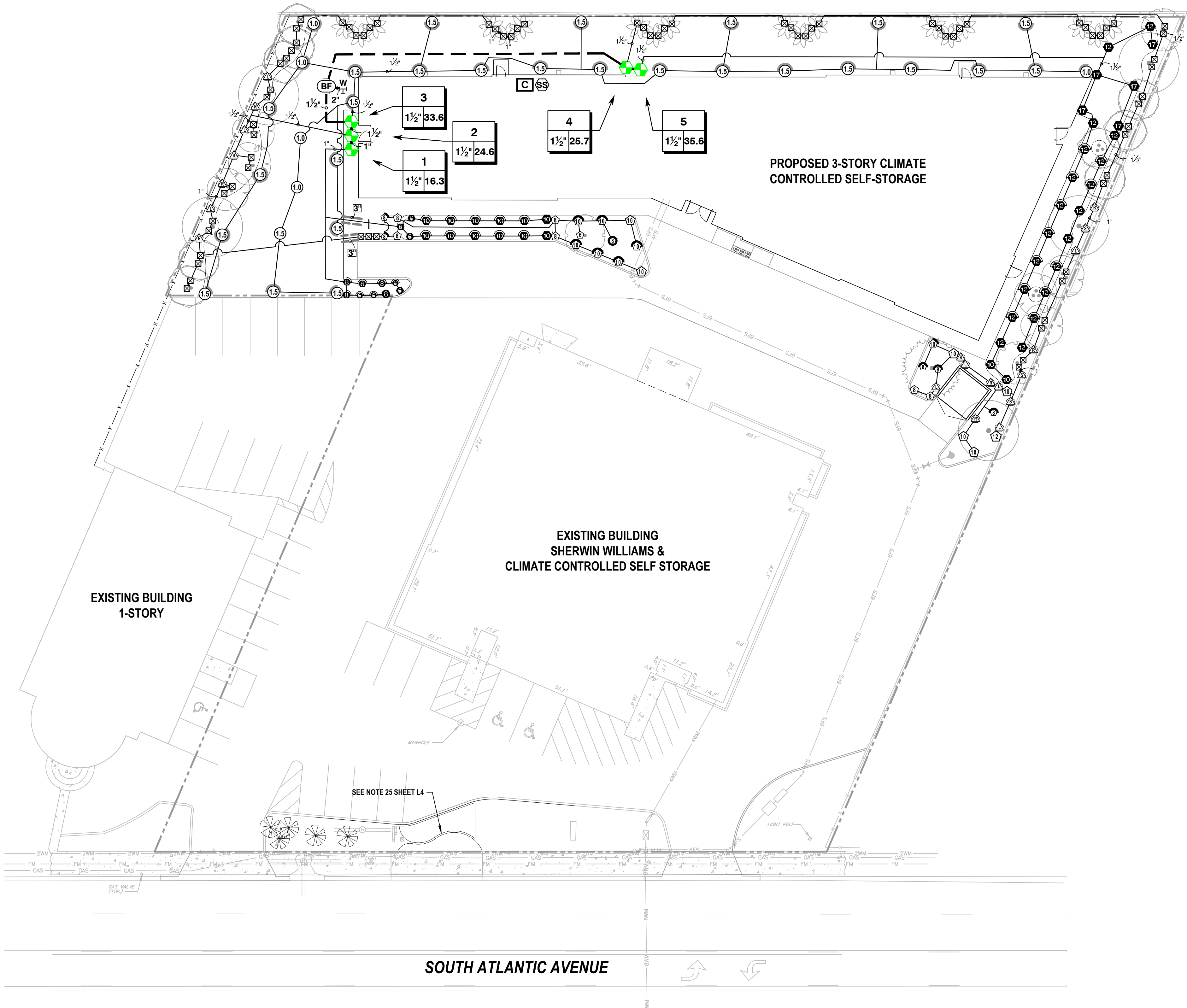


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PROJECT No: 2022-159
DATE: SEPTEMBER 2023
DESIGN BY: LAA
DRAWN BY: BWV
CHECKED BY: LAA
SCALE: AS SHOWN

DRAWING NUMBER

L2

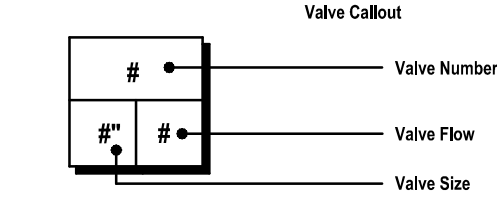


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	PSI
	HUNTER PROS-06-PRS30-CV-F SHORT RADIUS NOZZLES	3	30
	HUNTER PROS-06-PRS30-CV-F 8' RADIUS	4	30
	HUNTER PROS-06-PRS30-CV-F 10' RADIUS	10	30
	HUNTER PROS-06-PRS30-CV-F 12' RADIUS	12	30
	HUNTER PROS-06-PRS30-CV-F ADJUSTABLE ARC	22	30
	HUNTER PROS-12-PRS30-CV-F 5' STRIP SPRAY	20	30
	HUNTER PROS-12-PRS30-CV-F 8' RADIUS	6	30
	HUNTER PROS-12-PRS30-CV-F 10' RADIUS	7	30
	HUNTER PROS-12-PRS30-CV-F ADJUSTABLE ARC	14	30
	HUNTER PCB 10	75	30

SYMBOL	MANUFACTURER/MODEL	QTY	PSI
	HUNTER I-20-06-PRB-SR 1.0	5	30
	HUNTER I-20-06-PRB-SR 1.5	27	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER ICV-G-FS 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH FILTER SENTRY.	5
	ZURN 350XL 1-1/2" DOUBLE CHECK VALVE ASSEMBLY W/ EZSWAP INSERT.	1
	HUNTER I2C-0800-PL (2) 8 STATION OUTDOOR MODULAR CONTROLLER. NO MODULE REQUIRED. COMMERCIAL USE. PLASTIC CABINET.	1
	HUNTER SOLAR-SYNC SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, CONNECTS TO HUNTER PCC, PRO-C, AND I-CORE CONTROLLERS. INSTALL AS NOTED. INCLUDES 10 YEAR LITHIUM BATTERY AND RUBBER MODULE COVER, AND GUTTER MOUNT BRACKET. WIRED.	1
	POINT OF CONNECTION 3" 4" WELL WITH SUBMERSIBLE PUMP, SEE WELL NOTES SHEET L5	1
	IRRIGATION LATERAL LINE: PVC CLASS 160 SDR 26	2,235 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	147.8 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40	11.4 L.F.



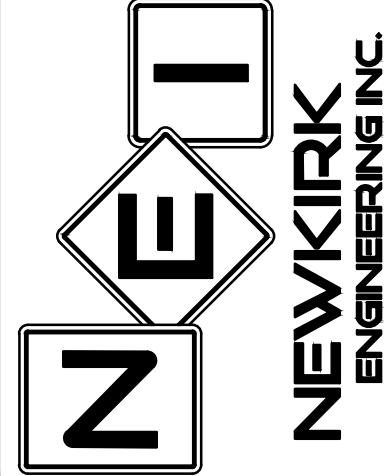
WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
	HUNTER ICV-G-FS	TURF SPRAY	2.64 in/h			18 min			18 min	1.5	35	571.8	285.9	
	HUNTER ICV-G-FS	SHRUB SPRAY	1.65 in/h			14 min			14 min	0.75	28	690.2	345.1	
	HUNTER ICV-G-FS	TURF ROTOR	0.52 in/h			30 min			30 min	0.5	59	898.0	449.0	
	HUNTER ICV-G-FS	BUBBLER	1.63 in/h			14 min			14 min	0.75	28	774.6	387.3	
	HUNTER ICV-G-FS	TURF SPRAY	1.87 in/h			25 min			25 min	1.5	49	1,745	872.3	
		TOTALS:				101			101		199	4,679	2,340	

REVISIONS

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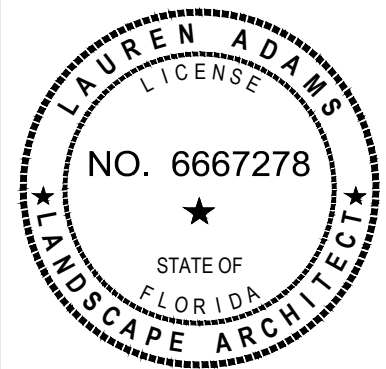
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IRRIGATION PLAN
SHORES DEPOT
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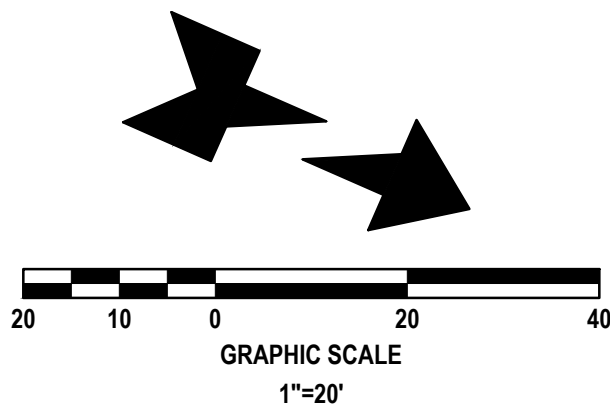
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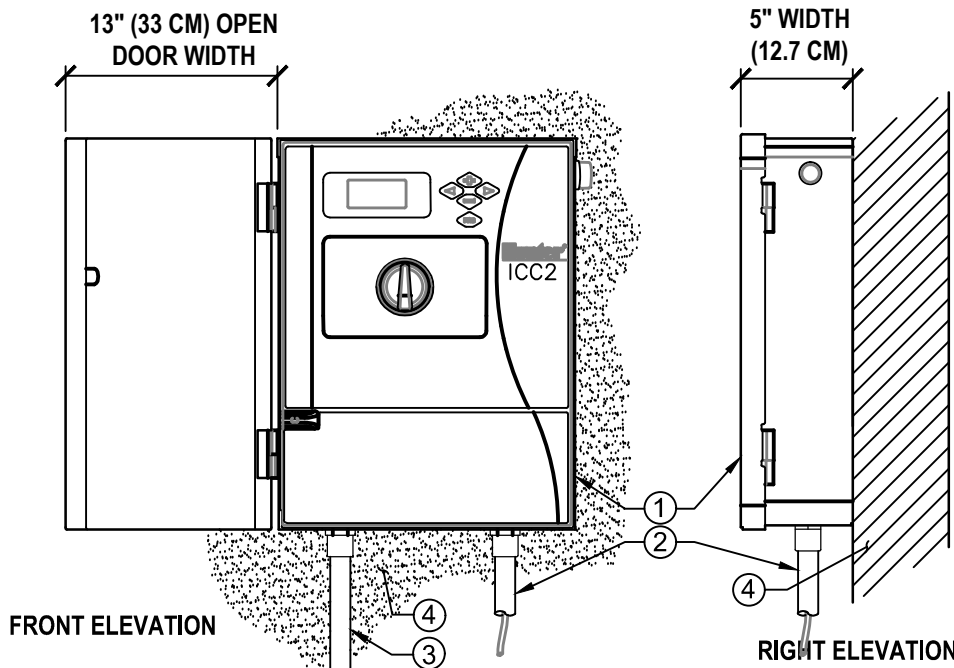


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DRAWN BY:	BWV
CHECKED BY:	LAA
SCALE:	1" = 20'
DRAWING NUMBER	

L3





NOTE:
MOUNT CONTROLLER LCD SCREEN AT EYE
LEVEL, CONTROLLER SHALL BE
HARD-WIRED TO GROUNDED 110 VAC
POWER SOURCE

LEGEND:

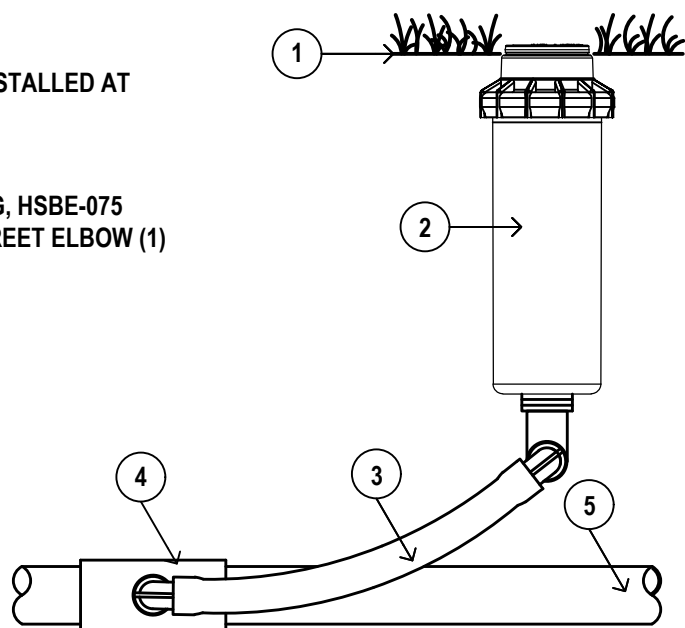
- 1 IRRIGATION CONTROLLER (12C-800-M) PER PLAN
- 2 IRRIGATION CONTROL WIRE IN CONDUIT SIZE
AND TYPE PER LOCAL CODES
- 3 ELECTRICAL SUPPLY CONDUIT CONNECT TO
POWER SOURCE, J-BOX INSIDE CONTROLLER
- 4 ADJACENT SURFACE TO MOUNT CONTROLLER
PER PLAN

1 HUNTER ICC2 CONTROLLER

1/8" = 1'-0"

P-CO-2022-159-21

- 1 FINISH GRADE
- 2 SPRAY OR ROTOR HEAD INSTALLED AT
FINISH GRADE
- 3 SWING JOINT:
HUNTER 'PRO-FLEX' TUBING, HSBE-075
ELBOWS (2), & MARLEX STREET ELBOW (1)
- 4 LATERAL TEE OR ELL
- 5 LATERAL PIPE

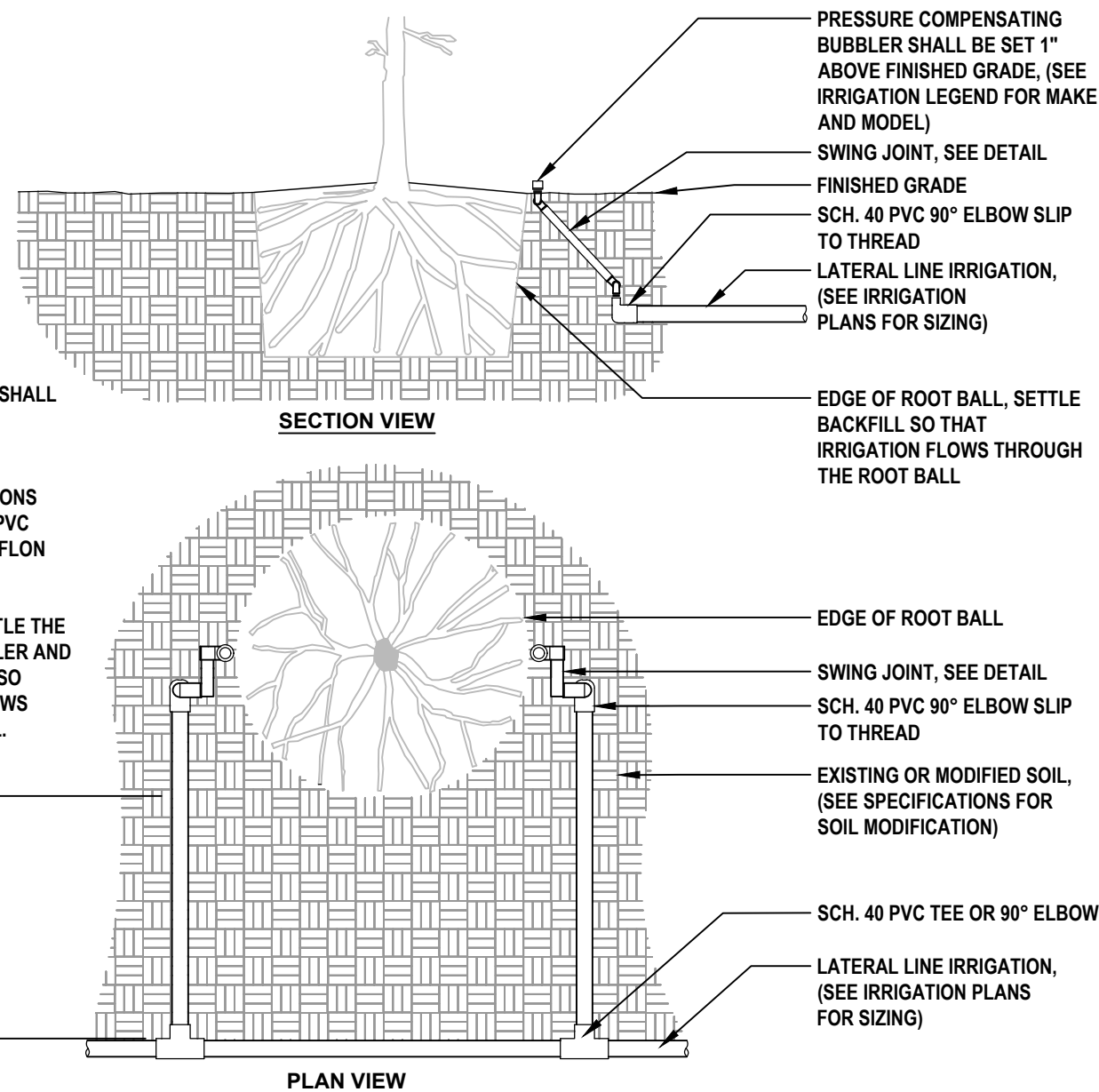


3 SPRAY HEAD AND ROTOR DETAIL

1/4" = 1'-0"

P-CO-2022-159-17

- NOTES:
1. ALL IRRIGATION FITTINGS SHALL
BE SCH. 40 PVC UNLESS
SPECIFIED OTHERWISE.
 2. ALL THREADED CONNECTIONS
FROM SCH. 40 TO SCH. 80 PVC
SHALL BE MADE USING TEFLON
TAPE.
 3. CONTRACTOR SHALL SETTLE THE
AREA AROUND THE BUBBLER AND
EDGE OF THE ROOT BALL SO
THAT ALL IRRIGATION FLOWS
THROUGH THE ROOT BALL.

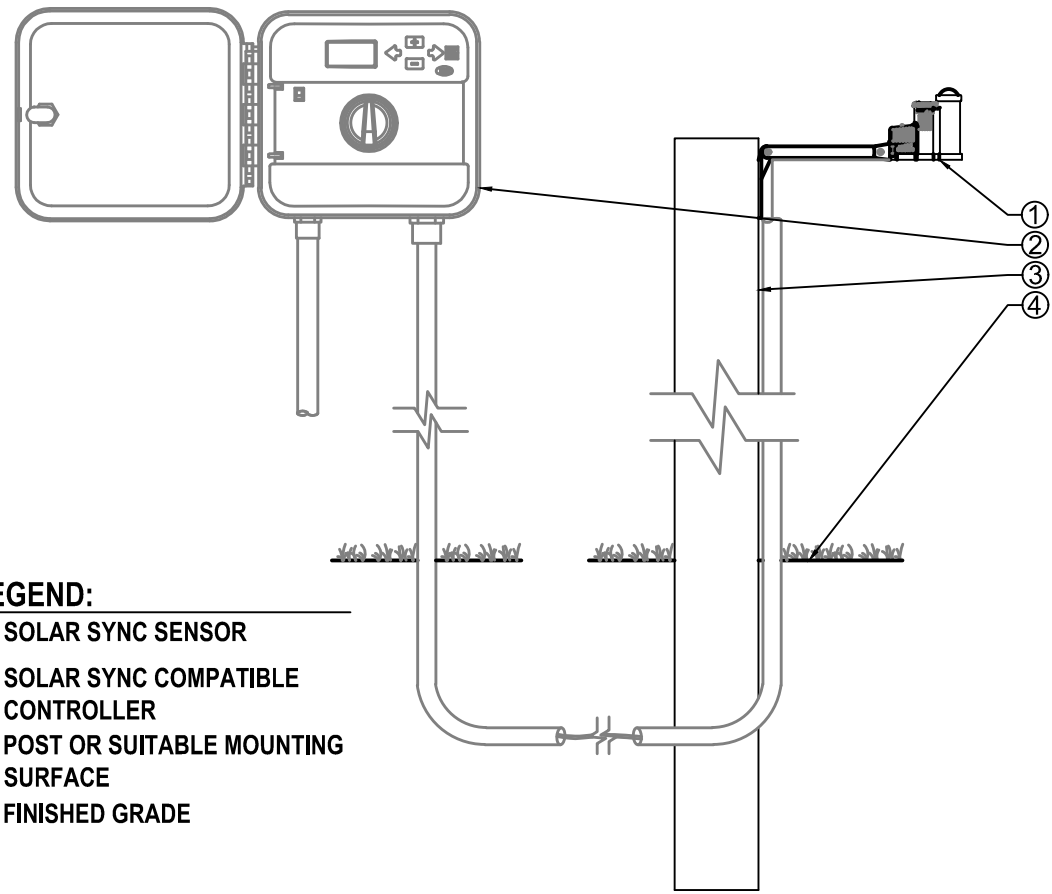


5 IRRIGATION BUBBLER (2) W/ LAYOUT

3/4" = 1'-0"

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LEGEND:

- 1 SOLAR SYNC SENSOR
- 2 SOLAR SYNC COMPATIBLE
CONTROLLER
- 3 POST OR SUITABLE MOUNTING
SURFACE
- 4 FINISHED GRADE

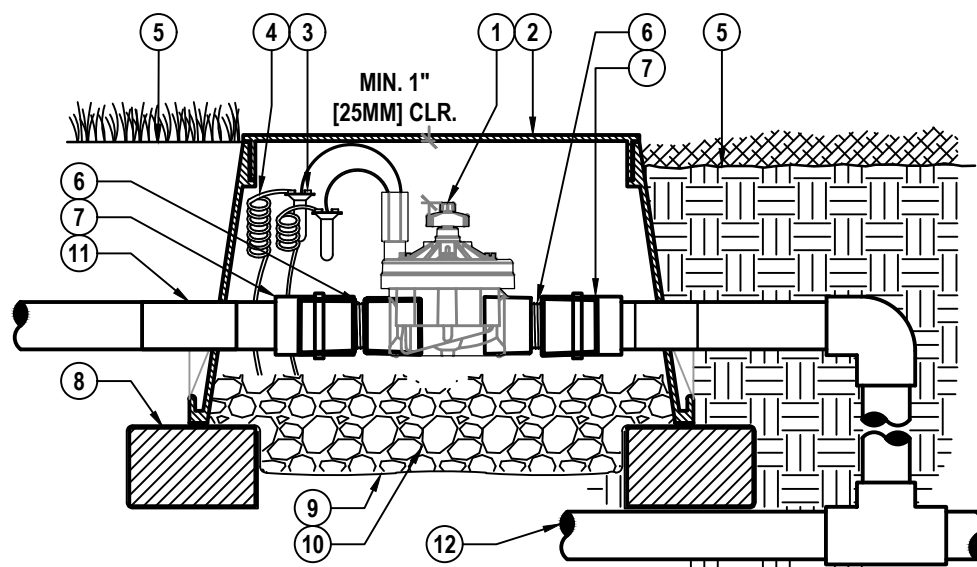
2 HUNTER SOLAR SYNC SENSOR

1/8" = 1'-0"

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LEGEND

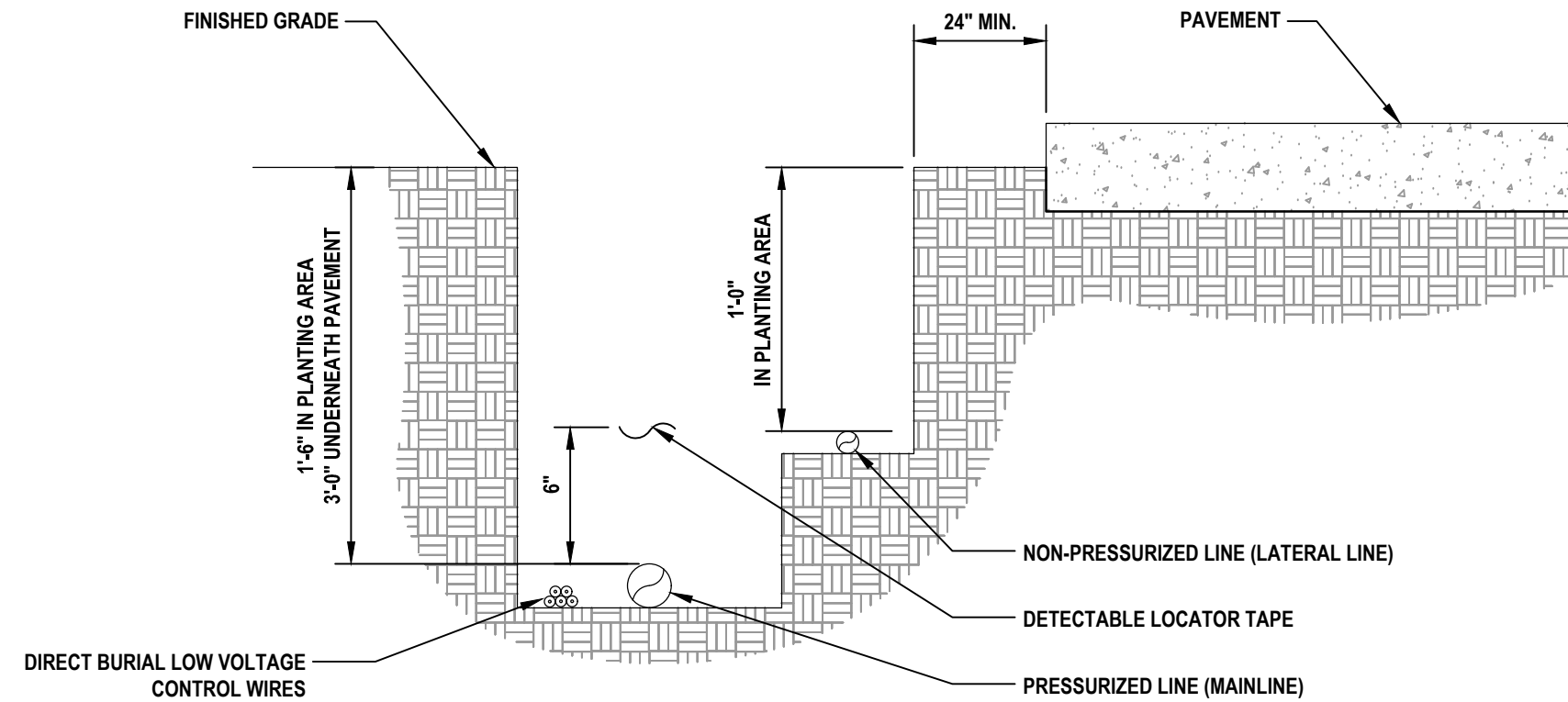
- 1 HUNTER REMOTE CONTROL VALVE (ICV)
WITH FLOW CONTROL
- 2 IRRIGATION VALVE BOX: HEAT STAMP LID
WITH 'RCV' IN 2" LETTERS
- 3 WATERPROOF CONNECTORS (2)
- 4 18"-24" COILED WIRE TO CONTROLLER
- 5 FINISH GRADE AT ADJACENT SURFACE
(TURF OR MULCH)
- 6 SCH. 80 CLOSE NIPPLE, SIZE PER RCV
- 7 PVC SLIP X FPT ADAPTOR
- 8 BRICK SUPPORTS (4)
- 9 FILTER FABRIC - WRAP TWICE AROUND
BRICK SUPPORTS
- 10 3/4" WASHED GRAVEL - 4" MIN. DEPTH
- 11 IRRIGATION LATERAL
- 12 MAINLINE AND FITTINGS



4 HUNTER REMOTE CONTROL VALVE (ICV)

1 1/2" = 1'-0"

P-CO-2022-159-20



- NOTES:
1. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
 2. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED.
 3. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
 4. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

6 IRRIGATION TRENCHING

1 1/2" = 1'-0"

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P-CO-2022-159-15

IRRIGATION NOTES

1. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL EXISTING UTILITIES AND CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. CHECK PRESSURE AND GPM OF WATER SUPPLY BEFORE BEGINNING JOB AND REPORT FINDING TO LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT WILL MAKE ANY ADJUSTMENT NECESSARY TO MAKE SYSTEM WORK AT ITS BEST.
3. THE PLAN IS SCHEMATIC ONLY. THE CONTRACTOR SHALL INSTALL PIPING IN A MINIMUM NUMBER OF TRENCHES AND SHALL INSTALL PIPE IN A MINIMUM LENGTH.
4. IRRIGATION LINES ARE SHOWN DIAGRAMMATICALLY AND ARE INTENDED TO SHOW DISTRIBUTION ZONES ONLY. LINES LOCATED UNDER PAVEMENT SHALL BE KEPT TO A MINIMUM AND ALL PIPING UNDER PAVED AREAS SHALL BE SLEEVED.
5. WHEN INSTALLING IRRIGATION PIPING IN ISLAND AND OTHER NARROW PLANTING AREAS RUN PIPING CLOSE TO CURB AND NOT DOWN THE MIDDLE OF THE PLANTING AREA. (BEFORE DOING IRRIGATION GET A COPY OF THE LANDSCAPE PLAN AND KEEP IRRIGATION LINES OUT OF PLANTING AREAS WHERE POSSIBLE.)
6. QUANTITIES FOR IRRIGATION MATERIALS MAY BE ESTIMATES. CONTRACTOR SHALL DO THEIR OWN TAKEOFF.
7. INSTALL SLEEVE PIPING WHERE SHOWN ON THE DRAWINGS AT THE PROPER DEPTH. ALL SLEEVE PIPE SHALL BE SCHEDULE 40 PVC PIPE INSTALLED A MINIMUM OF 20" BELOW FINISHED PAVING GRADES. ALL SLEEVES WHEN PLACED IN FIELD ARE TO BE LOCATED BY A METAL PIPE AT EACH END AND LOCATED FROM TWO STATIONARY POINTS BY TAPE MEASUREMENTS.
8. ALL LATERAL PIPE SHALL BE INSTALLED A MINIMUM OF 12" BELOW GRADE.
9. ALL TRENCHING SHALL BE KEPT OUT OF THE DRIP LINE AREA OF ALL EXISTING TREES. USE RADIAL LINES OR TUNNELING WHEN NECESSARY TO ENCR OACH INTO THE DRIP LINE AREA OF TREES.
10. LOCATE ALL VALVES AND OTHER IRRIGATION EQUIPMENT IN PLANT BED AREAS WITHIN THE PROJECT LIMITS FOR CONCEALMENT PURPOSES.
11. RISERS ARE TO BE HIDDEN COMPLETELY IN SHRUBBERY OR PAINTED BLACK AND IN NO CASE BE HIGHER THAN THE SHRUBBERY INSTALLED.
12. ALL VALVES SHALL BE INSTALLED IN VALVE BOXES. PROVIDE A 6" GRAVEL SUMP AT THE BOTTOM OF ALL VALVE BOXES AND INSTALL 1/2" TO 1" DIAMETER GRAVEL AT THE BOTTOM OF THE VALVE PIT.
13. IRRIGATION SHALL MEET ALL APPLICABLE CURRENT MUNICIPAL, COUNTY, STATE OR FEDERAL CODES, ORDINANCES AND REGULATIONS THAT HAVE JURISDICTION.
14. THERE SHALL BE A MINIMUM OF FOUR (4) INCHES OFFSET BETWEEN THE IRRIGATION EQUIPMENT AND PAVEMENT.
15. THERE SHALL BE A MINIMUM OF TWELVE (12) INCHES BETWEEN THE IRRIGATION EQUIPMENT AND STRUCTURES.
16. THERE SHALL BE NO DIRECT SPRAY ON WALKWAYS, BUILDINGS, DRIVES OR ROADWAYS.
17. ALL TURF IRRIGATION HEADS SHALL PROVIDE 100% HEAD TO HEAD COVERAGE.
18. ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
19. ALL SPRAY HEADS ARE TO BE A MINIMUM OF 6" POP-UP AND ALL HEADS IN PLANTING AREAS TO BE 12" POP-UP OR RISERS. RISERS SHALL BE PAINTED HUNTER GREEN.
20. ALL DRIP ZONES SHALL INCLUDE AN AIR RELIEF VALVE INSTALLED IN A VALVE BOX AT OPTIMAL HIGHEST POINT FROM THE CONTROL ZONE KIT. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE. ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP. FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.
21. ALL DRIP ROWS SHALL BE SPACED A MINIMUM OF 12" APART AND A MAXIMUM OF 18" APART.
22. ELECTRICAL TO CONTROLLER SHALL BE SUPPLIED BY ELECTRICAL CONTRACTOR (NOT IRRIGATION CONTRACTOR).
23. TREE PROTECTION AREA. HAND TRENCH ALL PIPING IN THESE AREAS TO AVOID IMPACTING THE CRITICAL PROTECTION ZONE OF THE EXISTING TREES TO REMAIN (TYP).
24. CONTRACTOR TO PROVIDE CONTROLLER HANDBOOK AND OPERATION INSTRUCTIONS, AS-BUILT ZONE DIAGRAM, INCLUDING LOCATIONS AND SIZE OF COMPONENTS, AND SOLID MOISTURE SENSOR PROBE LOCATION IF APPLICABLE. PRECIPITATION RATES FOR EACH ZONE, AND SCHEDULE RUN TIMES, WINTER AND SUMMER TO THE OWNER.
25. NEW LANDSCAPING TO BE TIED INTO EXISTING SYSTEM AND WATERED DURING ESTABLISHMENT PERIOD AS NECESSARY.

WELL & PUMP NOTE

1. PUMP SPECIFICATIONS:

PUMP MUST PROVIDE A MINIMUM OF 40 GALLONS PER MINUTE @ 55 PSI AT HEAD.
2. THE WELL SHALL BE CAPABLE OF PROVIDING REQUIRED WATER QUANTITY WITH FOLLOWING WATER QUALITY:
A. AT THE REQUIRED FLOW WATER SHALL BE CLEAR AND FREE OF SAND AND OTHER DEBRIS LARGER THAN .030" IN DIAMETER.
B. WATER SHALL BE CONSIDERED SAND FREE WHEN NO SAMPLE, TAKEN DURING TEST PUMPING, CONTAINS MORE THAN 2 PARTS PER MILLION OF SUSPENDED SOLID WEIGHT.
C. MAXIMUM IRON ALLOWED IN THE WELL WATER SHALL BE LESS THAN 0.3 PARTS PER MILLION.
D. MAXIMUM SALT CONTENT SHALL BE LESS THAN 300 PARTS PER MILLION.

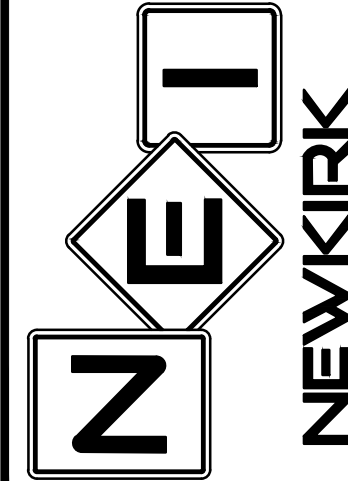
PLANT ESTABLISHMENT

1. IRRIGATE EVERY DAY FOR ONE MONTH.
2. IRRIGATE EVERY OTHER DAY FOR ONE ADDITIONAL MONTH.
3. IRRIGATE TWICE A WEEK THEREAFTER OR MORE OFTEN DURING DRY PERIODS IF PLANTS ARE SHOWING SIGNS OF DISTRESS SUCH AS WILTING OR BROWNING.
4. ENSURE RAIN SENSOR IS OPERATING CORRECTLY AND SYSTEM IS NOT WATERING ON DAYS WHEN IT RAINS.

REVISIONS

DATE	DESCRIPTION
11/27/23	CITY COMMENTS

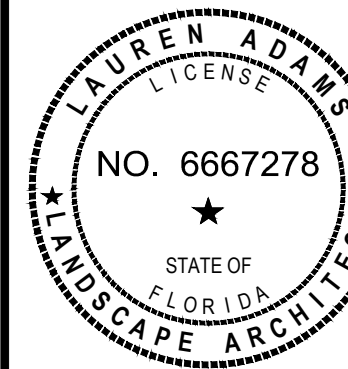
1230 North US1, Suite 3
Ormond Beach, Florida 32174
Phone (386) 872-7794
www.Newkirk-Engineering.com
C.A. # 30209
L.C. # 2600584
C 2013
Civil Engineering,
Transportation, CEI &
Landscape Architecture



IRRIGATION DETAILS
AND NOTES
SHORES DEPOT
2616 SOUTH ATLANTIC AVENUE
DAYTONA BEACH SHORES, FL 32118

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THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY
LAUREN ADAMS, RLA # 6667278 ON



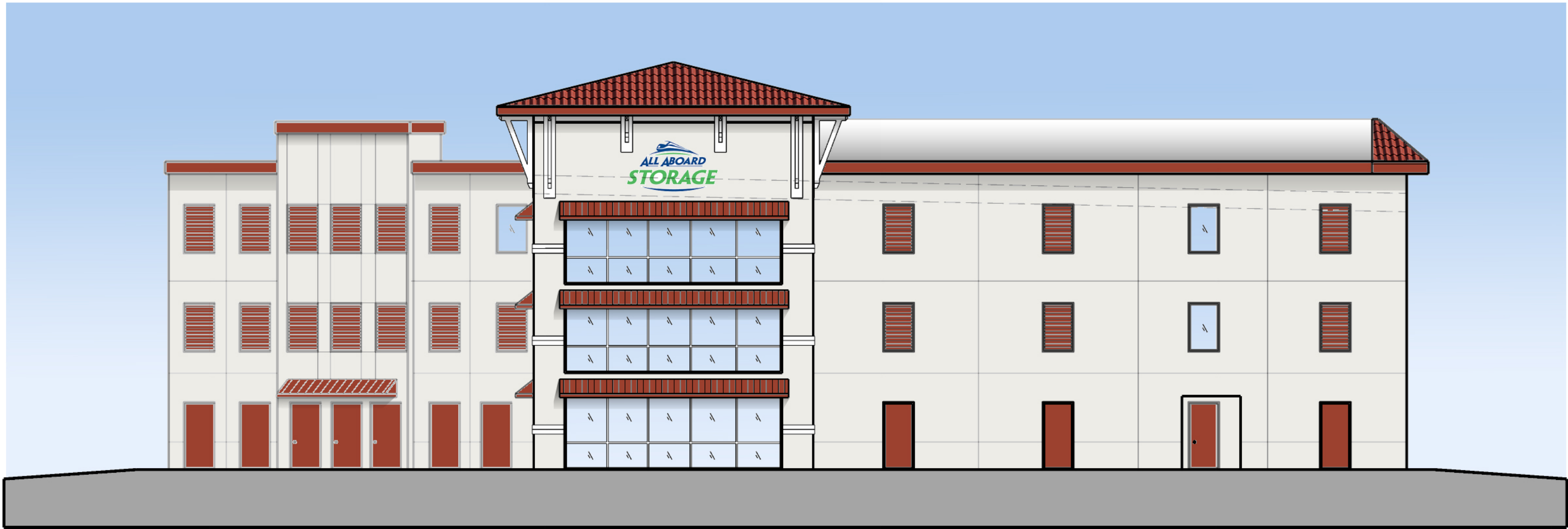
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SIGNED AND SEALED AND THE
SIGNATURE MUST BE VERIFIED ON
ANY ELECTRONIC COPIES.

PROJECT No:	2022-159
DATE:	SEPTEMBER 2023
DESIGN BY:	LAA
DRAWN BY:	BWV
CHECKED BY:	LAA
SCALE:	AS SHOWN
DRAWING NUMBER	L4

L4



SOUTH FACADE



NORTH FACADE



WEST FACADE



EAST FACADE

BUILDING MATERIALS/COLORS LEGEND		
ELEMENT	MATERIAL	COLOR
1. MAIN WALLS	STUCCO / PAINTED	PPG JACKSON ST. CREAM
2. ROOF	TILE ROOF - TERRA COTTA	RED
3. BANDING / TRIM	FOAM / STUCCO / PAINTED	PPG TOASTED ALMOND
4. BRACKETS	STUCCO / PAINTED	PPG TOASTED ALMOND
5. BUILDING CORNICE	FOAM / STUCCO / PAINTED	PPG RED
6. BAHAMA SHUTTERS	COMPOSITE OR ALUMINUM	PPG RED
7. EAVE TRIM	WOOD / PAINTED	PPG RED
8. GUTTERS / DOWNSPOUTS	METAL / PAINTED	PPG JACKSON ST. CREAM
9. PRE-ENGINEERED CANOPY	METAL OR CANVAS	PPG RED
10. MANSARD ROOF	TILE ROOF - TERRA COTTA	RED

NOTES: 1) ALL TENANT SIGNAGE TO BE DESIGNED BY OTHERS AND MEET GUIDELINES OF DAYTONA BEACH LAND DEVELOPMENT CODE ARTICLE 6 SEC. 6.10

GENERAL NOTES:
ALL DIMENSIONS ARE TO FINISH FACE UNLESS NOTED OTHERWISE
ALL GENERAL & SUB-CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS, ELECTRICAL, WATER, SEWER AND GAS SERVICE LOCATIONS.
ALL WORK MUST COMPLY WITH THE 2020 (7TH) EDITION (EXPOSURE 'D') OF THE FLORIDA BUILDING CODE SECT. 1609/140 MPH WIND LOAD AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION
ALL DOOR & WINDOW OPENINGS TO MEET OR EXCEED DESIGN PRESSURE RATING THE BUILDING RISK CATEGORY IS '1'
INTERNAL PRESSURE COEFFICIENT IS +/- 0.18 IN ACCORDANCE WITH ASCE 7-16
ALL GLAZING IS TO BE NON IMPACT RESISTANT

REVISIONS	
△ SITE COMMENTS #1 (11.9.23)	

DAYTONA BEACH SHORES - SELF STORAGE

OWNER/DEVELOPER: ANDREW CLARK, MANAGER, 240 RIDGEWOOD AVENUE, SUITE 201, PORT ORANGE, FL 32127 - PH: (386) 236-1970 FX: (386) 574-6365
PROJECT LOCATION: 2616 S. ATLANTIC AVENUE, DAYTONA BEACH SHORES, FL 32118
GENERAL CONTRACTOR: COLEMAN GOODENOTE CONSTRUCTION, INC., HAROLD GOODENOTE, CCC 028792, 619 NORTH BEACH STREET, DAYTONA BEACH, FL 32114, PH: (386) 253-6692

BPE
DESIGN INCORPORATED
Building Design and Architecture

BRIAN P. FREDLEY, ASSOCIATE AIA, PROJECT MANAGER
DALLAS B. PEACOCK, ARCHITECT
#AR 0009706
207 FAIRVIEW AVENUE
DAYTONA BEACH, FL 32114 PH: (386) 257-0502 FX: (386) 257-1050
EMAIL: bfredley@bpdsgn.com WEBSITE: bpdsgn.com

COLORED BUILDING ELEVATIONS

DRAWN BY: CHECKED BY: DBP & BPF

DATE: NOVEMBER 9, 2023

SCALE: 3/32"=1'-0"

SHT NO.

0 1' 4' 10' 20' 27'

ARCHITECT'S / ENGINEER'S SEAL



PLANNING ANALYSIS

APPLICATION NO:	Regular Site Plan RSP12023048
PROJECT NAME:	SHORES DEPOT - ALL ABOARD STORAGE, Interior Storage Facility
PROJECT LOCATION:	2616 South Atlantic Avenue
PARCEL ID:	5322 0004 0140
OWNER:	2616 Atlantic LLC (Name changed from 91 Oneida LLC on 4-29-24)
PROJECT COORDINATOR:	Brad Donley, PE
STAFF CONTACT:	Gwyn Herstein, City Planner
REQUEST:	<i>Approval of site plan application, RSP12023048, which would allow construction of a 3-story 36,104 sq ft interior storage facility</i>

A. EXISTING ZONING AND LAND USE

Table 1 below provides a description of the zoning district designation and current land use (i.e., existing development) for the subject and abutting properties.

Table 1: Zoning and Land Use Area Description

Location	Zoning	Current Land Use
Subject Property	GC-RD	Sherwin Williams & All Aboard Storage
North	P	Beachcomber Park
Southeast	GC-RD	Cow Lick's Ice Cream
Southwest	RMF-2	Twenty-Six Twenty-Six Condominium
East	T-RMF-1	RMF-1 Sandpoint Condominium
West	RMF-3	Sea Haven Townhomes

Notes: GC-RD = General Commercial Redevelopment District, P = Public/Quasi Public, RMF-2 = Multi-Family Residential District (Medium Density), T-RMF-1 = Hotel/Motel-Residential Multifamily (High Density) District, RMF-3 = Multi-Family Residential District (Low-Density).

As seen in **Table 1** above and **Exhibit A**, the subject property has a zoning designation of GC-RD. Pursuant to Sec. 14-58.1.2.D.2. of the Daytona Beach Shores Land Development Code (LDC), Interior Storage uses are permitted in the GC-RD District with an approved Special Exception. Special Exception SPEX12022030 was approved for Interior Storage at this location by the Planning and Zoning Board on March 13, 2023.

B. COMPREHENSIVE PLAN (2030)

According to the City's Adopted Comprehensive Plan (2030) Future Land Use Map, the future land use (FLU) classification of the subject property is *Tourist Oriented Commercial*. Comprehensive Plan **Policy 1-1.1.2.3.** sets commercial intensity limits at a maximum of 35% lot coverage and a maximum building height of 45 feet. **Policy 1-1.5.1.** and **Policy 1-1.5.5.** promote compatibility between adjacent, dissimilar land uses by requiring special consideration, landscape buffers, and space between uses. Considering the aforementioned and that the proposed development would have both a lot coverage of 34.5% and a maximum building height of 32 feet plus a neighbor-requested terra cotta roof feature, and would adhere to seven other owner/neighbor conversation-derived conditions, the proposed site plan is consistent with the City's Adopted Comprehensive Plan (2030) and existing FLU classification.

C. REVIEW AND COMMENTS

PLANNING: Gwyn Herstein, City Planner, under the direction of Stewart Cruz, AICP, Community Services Department Director

1. General Description

The development site is located at 2616 South Atlantic Avenue (**Exhibit B**). This site has an acreage of 1.56 acres and street frontage of 221.9 feet along South Atlantic Avenue. The Shores Depot - All Aboard Self Storage site plan proposes construction of a 3-story, self-storage building with a 12,450 sq foot building footprint on the westerly portion of this irregularly shaped property. The gross floor area of the proposed building is 36,104 sq feet which will be divided into approximately 123 units of various sizes. There is currently no structure on this portion of the property, though some areas are pavement-covered and others are vacant vegetation.

On the easterly portion of this site, a 1-story, 11,107 sq foot building sits. The building is occupied by a Sherwin Williams paint store and an All Aboard Self Storage business. This building will remain.

2. Stormwater

To accommodate the net 4% increase in impervious surface on the developed property, a shallow swale will be placed near the west property line. In all other areas of the property, existing drainage patterns will be maintained. The City engineer has approved this site plan as conforming with the City's Land Development Code and stormwater regulations.

3. Access

The development plan shows vehicular and pedestrian access via two (2) driveway connections to South Atlantic Avenue near the northeast and southeast ends of the property. The City's Public Safety Department has reviewed both access points and has no objection to their location.

4. Parking & Transportation

Twenty-nine (29) parking spaces are required to serve the proposed development and the businesses in the existing building on the property; thirty-five (35) spaces are shown on the plan, inclusive of four (4) ADA spaces.

A 1983 Reciprocal Grant of Easement exists between this property and the property on which the Cow Lick's Ice Cream establishment sits. The Cow Lick's property is immediately southeast of the proposed development site and bears Volusia County parcel identification number 5322 0004 0150. Accordingly, development plans and traffic and parking analyses for this project address parking requirements on both the property being developed and the Cow Lick's property. These analyses, based on information regarding the Cow Lick's Ice Cream business which is consistent with City records and the City's Land Development Code, demonstrate that fourteen (14) parking spaces are required on this separate, adjacent property. Twenty (20) parking spaces are shown on the plan, inclusive of one (1) ADA space.

Further, according to the Parking Demand Justification Letter (**Exhibit C**) provided by the project transportation engineer, average parking space utilization is expected to yield between forty-one (41) and forty-four (44) occupied spaces, while peak utilization is expected to yield between forty-five (45) and forty-seven (47) occupied spaces, depending on the time of day and the day of the week. This stated usage by the proposed building and the two existing buildings will be accommodated by the proposed total of fifty-five (55) spaces across both properties.

Additionally, according to the Trip Generation Statement traffic analysis (**Exhibit D**) provided by the project transportation engineer, daily additional trips generated by the proposed development should average ninety-one (91). These additional trips will increase average daily trips to and from the property by 9.0% so should not adversely impact the South Atlantic Avenue transportation corridor, which is currently operating at acceptable levels of service.

5. Public Facilities

The proposed storage facility will not have a restroom or other sewer demand. Office check-in and restroom facilities will be available in the existing building, which currently houses the business office. All public facilities have adequate capacity to accommodate the proposed development at the City's adopted levels of services (**Exhibit E**).

6. Landscaping

Twelve (12) trees are required to be added to the site; the developer proposes adding thirty (30) trees. At least two different tree species are required; the developer plans to use seven different tree species. Adequate perimeter and interior landscaping are provided as required. Considering the aforementioned information, the proposed landscape plans meet and, at times, exceed the City's landscape design requirements (**Exhibit F**).

7. Development Plan

As seen in the attached site development plan review checklist (**Exhibit G**), the proposed plans meet the requirements of the City's Land Development Code.

8. Conditions for Approval

Related to conditional approval of associated Special Exception SPEX 12022030 and unsubmitted requirements associated with this site plan application, certain conditions for approval of Regular Site Plan RSP 12023048 must be met. Per **Exhibit H**, applicable conditions have been satisfied. Other conditions will be addressed during the building permitting phase of the development.

D. PLAN REVIEWERS

COMMUNITY SERVICES: Stewart Cruz, AICP, Department Director

See above.

PUBLIC WORKS: Tom Brown - Public Works/Sewer Deputy Director

The Deputy Director has reviewed the site plan, including the landscaping and irrigation plans, and his comments have been addressed.

PUBLIC SAFETY: Lt. Medders –Support Services Division Lieutenant

The Support Services Lieutenant has reviewed the site plan and his comments have been addressed.

ENGINEERING: Michelle Widick, P.E. – Zev Cohen

The City's civil engineering consultant has reviewed the site plan and her comments have been addressed.

PLANNING & ZONING BOARD:

At its August 12, 2024, public hearing, the Daytona Beach Shores Planning and Zoning Board considered approval of RSP12023048 as presented.

E. STAFF RECOMMENDATION

Staff recommends approval of the Shores Depot - All Aboard Storage Regular Site Plan RSP12023048 as presented.

EXHIBIT A

Zoning and Location Maps 2616 S. Atlantic Avenue

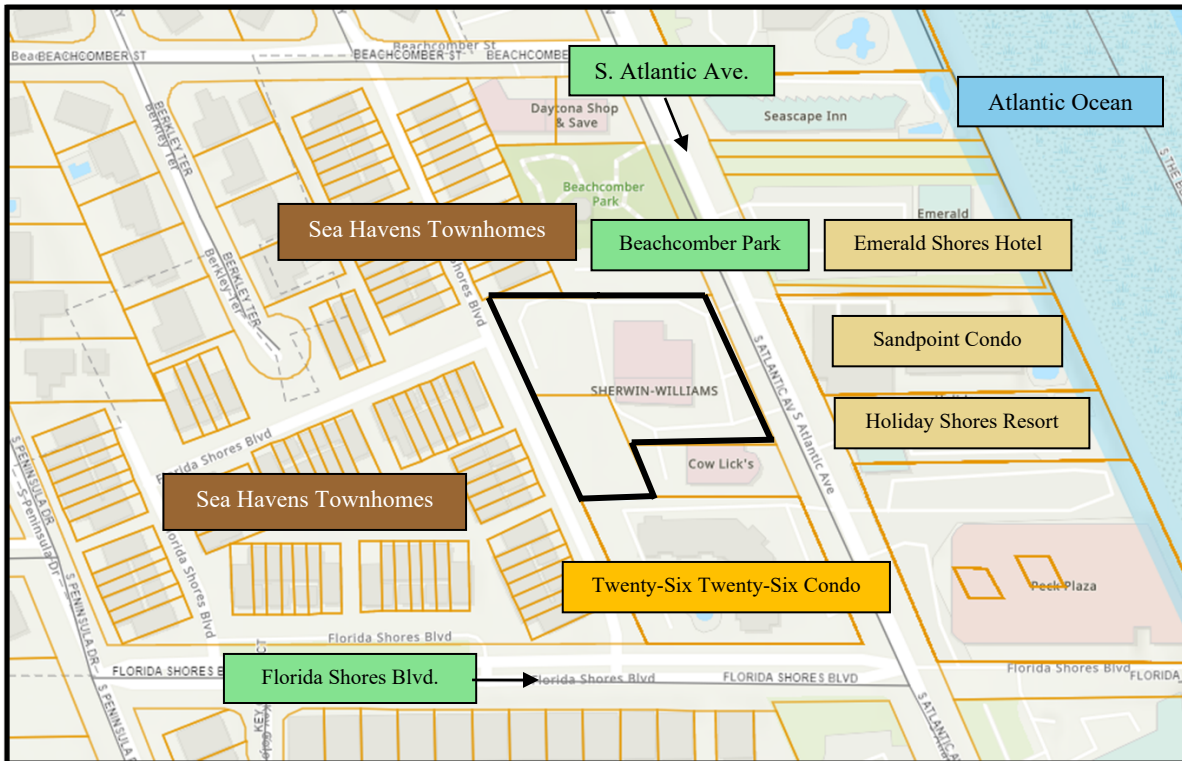
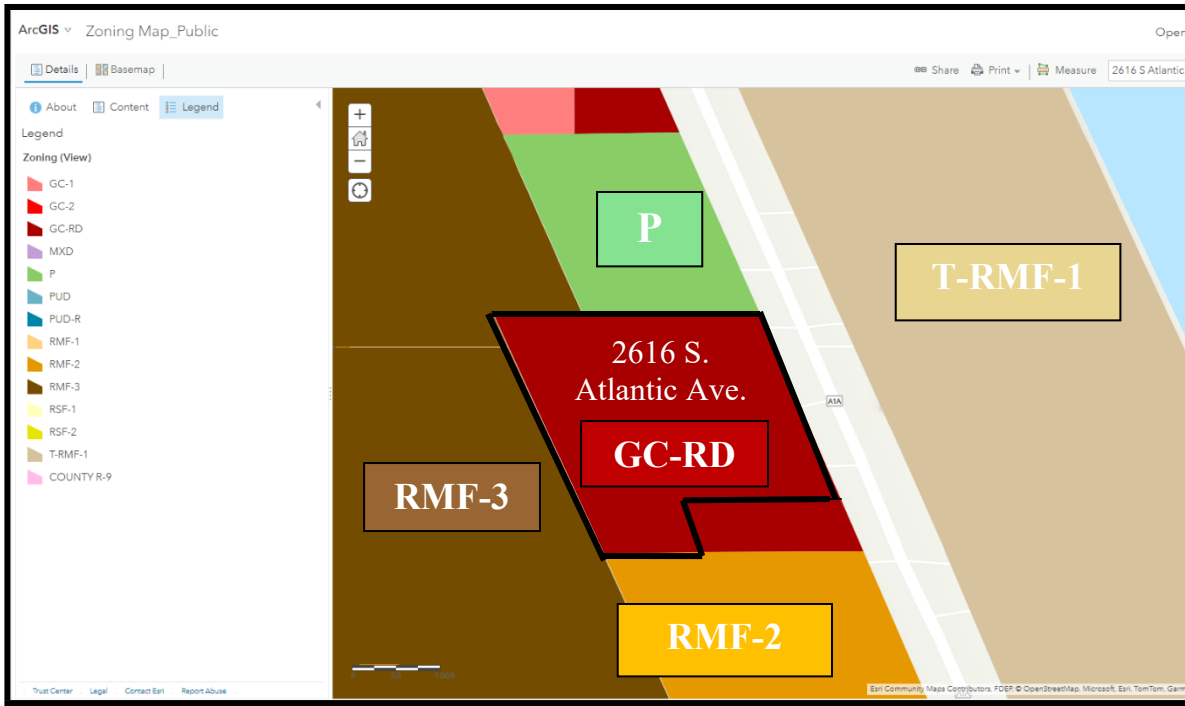


EXHIBIT B

Aerial View
2616 S. Atlantic Avenue



EXHIBIT C

Parking Demand Analysis (3 Pages)



NEWKIRK ENGINEERING, INC.

CIVIL ENGINEERING - TRANSPORTATION - CEI - LANDSCAPE ARCHITECTURE

1230 N US HWY 1, SUITE 3, ORMOND BEACH, FLORIDA 32174 386-872-7794

September 21, 2022

Stewart Cruz, City Planner
City of Daytona Beach Shores
Planning Division
2990 S Atlantic Ave
Daytona Beach Shores, FL 32118

Re: Shores Depot – All Aboard Storage
2616 S Atlantic Ave
Parking Demand Justification Letter

Dear Mr. Cruz,

This letter is meant to be a Parking Demand Justification Letter for the proposed site conditions.

Existing Conditions

The site currently functions with shared parking for the Seahorse Storage, Sherwin Williams, and Cow-Licks Ice Cream parlor. Based on property owner and tenant claims, the existing parking in the rear of the site commonly goes unused due to the number of spaces closer to the retail stores. The site currently provides 71 standard stalls and 4 ADA stalls for a total of 75 stalls. As it sits, the ITE parking demand calculation for these three (3) businesses are below:

Description/ITE Code	Units	ITE Vehicle Parking Generation Rates					
		Average			85th Percentile		
		Weekday	Saturday	Sunday	Weekday	Saturday	Sunday
Mini-Warehouse 151 (All Aboard Storage)	KSF	0.14	0.11	0.11	0.17	0.13	0.13
Hardware/Paint Store 816 (Sherwin Williams)	KSF	1.9	2.19	2.19	1.9	2.19	2.19
High-Turnover (Sit-Down) Restaurant w/o Bar or Lounge, Urban 932 (Cow-Licks)	KSF	5.55	5.55	5.55	6.37	6.37	6.37

Description/ITE Code	Expected Units	Total Stalls Occupied in Peak Period						Anticipated Peak Period
		Average			85th Percentile			
		Weekday	Saturday	Sunday	Weekday	Saturday	Sunday	
Mini-Warehouse 151 (Seahorse Storage)	3,086	0.43	0.34	0.34	0.52	0.40	0.40	5:30 pm to 6:30 pm
Hardware/Paint Store 816 (Sherwin Williams)	8,000	15.20	17.52	17.52	15.20	17.52	17.52	10:30 am to 11:30am
High-Turnover (Sit-Down) Restaurant w/o Bar or Lounge, Urban 932 (Cow-Licks)	4,555	25.28	25.28	25.28	29.02	29.02	29.02	6:30 pm to 7:30 pm
TOTAL		41	44	44	45	47	47	

These totals display that if all peak periods occur simultaneously, 47 stalls will be occupied during that peak hour on a weekend. However, these three businesses have varying anticipated peak period times (see tables above) and are not expected to experience simultaneous peak periods often. The Land Development Code requires 37 parking spaces for this development per use. See table below:

Page 1 of 3

Shores Depot
Parking Letter
September 21, 2022

LDC PARKING REQUIREMENTS - EXISTING PLAZA				
BUILDING USE	A. SF/SEATS	B. SPACES	C. PER UNIT	D. REQ. SPACES
MINI-WAREHOUSE (SF)	3086 (SF)	1	1,500	2
COW LICKS (SEATS)	48 (SEATS)	1	4	12
COW LICKS (EMPLOYEES)	2 EMPLOYEES	1	3	2
SHERWIN WILLIAMS (SF)	5090 (SF)	1	250	21
TOTAL REQUIRED SPACES				37
TOTAL REQUIRED ADA SPACES				2

Proposed Conditions

The project proposes to add an All Aboard Storage 3-story self-storage facility and maintain the shared parking within the commercial center.

With the proposed development, the land development code determines that 62 parking spaces are required for the site. The table below provides the number of required spaces based on the requirements of the Daytona Beach Shores Land Development Code.

LDC PARKING REQUIREMENTS - PROPOSED PLAZA				
BUILDING USE	A. SF/SEATS	B. SPACES	C. PER UNIT	D. REQ. SPACES
MINI-WAREHOUSE (SF)	39685 (SF)	1	1,500	27
COW LICKS (SEATS)	48 (SEATS)	1	4	12
COW LICKS (EMPLOYEES)	2 EMPLOYEES	1	3	2
SHERWIN WILLIAMS (SF)	5090 (SF)	1	250	21
TOTAL REQUIRED SPACES				62
TOTAL REQUIRED ADA SPACES				3

The current layout of the proposed site includes 53 parking spaces, 4 of which are ADA compliant. The parking generation report shows that a maximum of 52 stalls will be occupied during the peak hour of any weekend or weekday. See ITE generation rates below:

Description/ITE Code	Units	ITE Vehicle Parking Generation Rates					
		Average			85th Percentile		
		Weekday	Saturday	Sunday	Weekday	Saturday	Sunday
Mini-Warehouse 151 (All Aboard Storage)	KSF	0.14	0.11	0.11	0.17	0.13	0.13
Hardware/Paint Store 816 (Sherwin Williams)	KSF	1.9	2.19	2.19	1.9	2.19	2.19
High-Turnover (Sit-Down) Restaurant w/o Bar or Lounge, Urban 932 (Cow-Licks)	KSF	5.55	5.55	5.55	6.37	6.37	6.37

Description/ITE Code	Expected Units	Total Stalls Occupied in Peak Period						Anticipated Peak Period
		Average			85th Percentile			
		Weekday	Saturday	Sunday	Weekday	Saturday	Sunday	
Mini-Warehouse 151 (Seahorse & All Aboard)	39,686	5.56	4.37	4.37	6.75	5.16	5.16	5:30 pm to 6:30 pm
Hardware/Paint Store 816 (Sherwin Williams)	8,000	15.20	17.52	17.52	15.20	17.52	17.52	10:30 am to 11:30am
High-Turnover (Sit-Down) Restaurant w/o Bar or Lounge, Urban 932 (Cow-Licks)	4,555	25.28	25.28	25.28	29.02	29.02	29.02	6:30 pm to 7:30 pm
TOTAL		47	48	48	51	52	52	

Shores Depot
Parking Letter
September 21, 2022

Based on the given rates, the entire proposed site is expected to have an average of 47 stalls filled on a weekday, which is 90% of the proposed capacity of 53 spaces. If all peak period times occur simultaneously, then 52 stalls will be occupied for that peak period. The trip generation shows that the highest number of occupied parking stalls for mini- warehouse is 6.75. The provided parking generation report suggests that the site parking requirements be based on 1 space per 6,000 sf of mini- warehouse use.

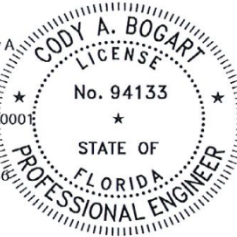
Based on this data and the behavior observed at other All Aboard Storage facilities, the proposed conceptual plan provides adequate parking for the dynamic needs of the current and proposed tenants. The reduction in required parking is being requested based on the parking generation report which shows that the stalls will be occupied with a ratio of approximately 1 space per 6,000 sf of building area. The proposed amount of 53 spaces would provide adequate parking for the plaza with the site improvements.

If you have any questions or need additional information, please feel free to call or email me.

Sincerely,



Digitally signed by Cody A Bogart
DN: c=US, o=NEWKIRK ENGINEERING INC.,
dnQualifier=A01410C0B00018143D489A10003D618,
cn=Cody A Bogart
Date: 2022.09.21 15:08:38 -04'00'



Cody Bogart, PE #94133
Newkirk Engineering, Inc.
(386) 872-7794 - cody@newkirk-engineering.com

Page 3 of 3

EXHIBIT D

Traffic Impact Analysis (2 Pages)



NEWKIRK ENGINEERING, INC.

CIVIL ENGINEERING - TRANSPORTATION - CEI - LANDSCAPE ARCHITECTURE

1230 N US HWY 1, SUITE 3, ORMOND BEACH, FLORIDA 32174 386-872-7794

October 4, 2022

Stewart Cruz, City Planner

City of Daytona Beach Shores

Planning Division

2990 S Atlantic Ave

Daytona Beach Shores, FL 32118

Re: Shores Depot – All Aboard Storage

2616 S Atlantic Ave

Trip Generation Statement

Dear Mr. Cruz,

Submitted is a trip generation report for the above referenced project which will be a proposed Indoor Self-Storage Facility. This trip generation report includes Cow-Licks Ice Cream, Sherwin Williams Paint Store, the existing Seahorse Storage, and the proposed All Aboard Storage. Cow-Lick's was included to coincide with parking calculation letter provided separate form this statement. The traffic trip generation and impact analysis were calculated from the following ITE Trip Generation Rates 8th Edition:

Description / ITE Code	UNIT	ITE Vehicle Trip Generation Rates									
		(peak hours are for peak hour of adjacent streets)									
		Weekday	AM	PM	AM In	AM Out	Pass-By	PM In	PM Out	Pass-By	
Mini-Warehouse (151)	KSF	2.5	0.15	0.26	59%	41%	0%	51%	49%	0%	
Hardware/Paint Store (810)	KSF	51.29	1.08	4.84	50%	50%	26%	47%	53%	26%	
Quality Restaurant (931)	KSF	89.95	0.81	7.49	50%	50%	44%	67%	33%	44%	
Residential Townhome (230)	DU	5.81	0.44	0.52	17%	83%	0%	67%	33%	0%	

Description / ITE Code Proposed Conditions	UNIT	Existing Trip Estimation									
		Total Generated Trips			Total Distribution of Generated Trips						
		Daily	AM Hour	PM Hour	AM In	AM Out	Pass-By	PM In	PM Out	Pass-By	
Mini-Warehouse (151)	3.100	8	0	1	0	0	0	0	0	0	
Hardware/Paint Store (810)	8.000	410	9	39	5	5	2	19	22	2	
Quality Restaurant (931)	4.550	409	4	34	3	3	2	24	12	2	
Residential Townhome (230)	10.860	63	5	6	1	4	0	4	2	0	
Total Existing Trips		890	18	79	9	12	4	47	36	4	

Description / ITE Code Proposed Conditions	UNIT KSF	Proposed Trip Estimation									
		Total Generated Trips			Total Distribution of Generated Trips						
		Daily	AM Hour	PM Hour	AM In	AM Out	Pass-By	PM In	PM Out	Pass-By	
Mini-Warehouse (151)	39.700	99	6	10	4	2	0	5	5	0	
Hardware/Paint Store (810)	8.000	410	9	39	5	5	2	19	22	2	
Quality Restaurant (931)	4.550	409	4	34	3	3	2	24	12	2	
Total Proposed Trips		919	18	83	12	11	4	48	39	4	

NET CHANGE		28	1	4	2	-2	0	1	3	0	
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Page 1 of 2

The calculations provided above use the values determined from the Institute of Transportation Engineering trip generation analysis for each designated land use. The existing RMF-3 area allows up to 10.86 dwelling units and is proposed to be rezoned and amended to coincide with the rest of the area in question as TOC land use and GC-RD zoning.

According to the FDOT traffic count provided for A1A at the proposed site location, the AADT is 3200. The project proposes a total of 28 additional daily trips which is 0.88% of the total trips. Since the proposed project increases the net daily trips by less than 10%, this proves that the current conditions of A1A are sufficient for the proposed project.

The trip generation calculations show that the proposed development will create an additional 28 Daily Trips, 1 AM Peak Hour and 4 PM Peak Hour trips. Trip generation calculations are based on the 8th Edition of the ITE manual which is the most up to date edition that is publicly available. Newer versions offer more information on pedestrian behavior, bicycle analysis, and truck data, which is not applicable to the trip generation analysis for this project.

If you have any questions or need additional information, please feel free to call or email me at cody@Newkirk-Engineering.com.

Sincerely,

NEWKIRK ENGINEERING, INC.

Cody Bogart, PE # 94133
Newkirk Engineering, Inc.

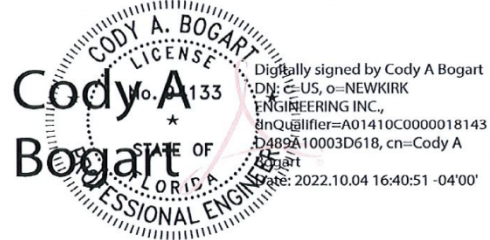


EXHIBIT E

Public Facilities Concurrency Findings

PART A

Table 1: Concurrency/Capacity Analysis (Theoretical Max.)

Development Variable	Current Use	Proposed Use	System Impact	Capacity Available
Residential Units	N/A	N/A	N/A	
Population	N/A	N/A	N/A	
Proposed Daily Trip Generation ¹	827	918	9% increase	Yes
Sanitary Sewer (gallons/day)	N/A	N/A	N/A	
Solid Waste (lbs./day)	N/A	N/A	N/A	
Stormwater Drainage ⁴	N/A	Onsite retention	No adverse impact	Yes
Potable Water (gallons/day)	N/A	N/A	N/A	
Recreation	N/A	N/A	N/A	Yes
Public School Student(s)	N/A	N/A	N/A	

Notes:

- | | |
|-------------------------|--|
| 1. Transportation: | Trip Generation Analysis by Cody Bogart, P.E., Newkirk Engineering, Inc. |
| 2. Sanitary Sewer: | 250 gallons per dwelling unit per day |
| 3. Solid Waste: | 10 pounds per capita per day |
| 4. Stormwater Drainage: | Stormwater Report, as revised February 2024, by Brad Donley, P.E., Newkirk Engineering, Inc. |
| 5. Potable Water: | 110 gallons per capita per day |

PART B: FINDINGS OF CONCURRENCY

Per Part A above, the City finds the following:

1. The existing public facilities have the ability to accommodate the proposed development at the adopted level-of-service standards.
2. No public facility deficiency is required to be corrected prior to the completion of the proposed development.

EXHIBIT F

Landscape/Irrigation Review Checklist

LANDSCAPING AND IRRIGATION REVIEW

Date August 7, 2024

DBS Planning and Zoning Board: August 12, 2024

Name Of Project Shores Depot-All Aboard Storage, Interior Storage Facility
Project Number RSP12023048
Address & Parcel # 2616 S. Atlantic Avenue, Daytona Beach Shores, FL & 5322 0004 0140
Owners Name 2616 Atlantic LLC (Name changed from 91 Oneida LLC 4-29-24)
Applicant Andy Clark, All Aboard Storage Owner
Project Coordinator Brad Donley, P.E., Newkirk Engineering, Inc.

	Status	Date
Drawings Show Site Location & North Arrow	OK	8/7/2024
Lot Size Irregular	OK	8/7/2024
Land Area 68,135 S.F. or 1.56 acres	OK	8/7/2024
Land Area with new construction 31,207 S.F.	OK	8/7/2024
Green Area – Min Req N/A , Shown 24.2%	OK	8/7/2024
Trees – Min # Req 12 , # Shown 30	OK	8/7/2024
Tree Breakdown: 18 palms (3:1) = 6 24 non-palms		
Tree Mixture Req 2 , # Shown 7	OK	8/7/2024
Specimen Trees – No X Yes ☐ Protected ☐	OK	8/7/2024
Drawings Meet/Exceed City's Tree Ordinance	OK	8/7/2024
Parking Area Landscaping		
Min Req 120 S.F. , Shown 611 S.F.	OK	8/7/2024
Terminal/Interior Islands	OK	8/7/2024
Lot Perimeter Landscaping	OK	8/7/2024
Plants – Salt Tolerance Rating		
High X Moderate X Slight ☐	OK	8/7/2024
Provisions For Irrigation	OK	8/7/2024

Remarks: None

LANDSCAPING/IRRIGATION PLAN REVIEWED BY:

Gwyn Herstein
Gwyn Herstein, City Planner

August 8, 2024
Date

Stewart Cruz
Stewart Cruz, AICP, Community Services Director

8-8-24
Date

LANDSCAPING/IRRIGATION PLAN APPROVED BY PLANNING & ZONING BOARD:

With Modifications Indicated ☐ Without Modifications ☐

Print Name _____

_____ Date

EXHIBIT G

Development Review Checklist (3 Pages)



SITE DEVELOPMENT PLAN REVIEW

Date August 7, 2024

DBS Planning and Zoning Board: August 12, 2024

Name Of Project Shores Depot-All Aboard Storage, Interior Storage Facility
 Project Number RSP12023048
 Address & Parcel # 2616 S. Atlantic Avenue, Daytona Beach Shores, FL & 5322 0004 0140
 Owners Name 2616 Atlantic LLC (Name changed from 91 Oneida LLC 4-29-24)
 Applicant Andy Clark, All Aboard Storage Owner
 Project Coordinator Brad Donley, P.E., Newkirk Engineering, Inc.

	Status	Date
Statement of Ownership & Control	OK	8/7/2024
Proposed Address: 2616 S. Atlantic Avenue	OK	8/7/2024
Zoning Classification: GC-RD	OK	8/7/2024
Future Land Use Classification: TOC	OK	8/7/2024
Use – Existing: Interior Storage Facility/Vacant	OK	8/7/2024
Proposed - Expanded Interior Storage Facility	OK	8/7/2024
Subject to Development Agreement & Waivers (DA)	NA	8/7/2024
Subject to Variances/Special Exceptions- SPEX 12022030	OK	8/7/2024
Lot Size and Area – 68,135 S.F. or 1.56 acres	OK	8/7/2024
Min. Width: 75 ft Shown: 221.93 ft	OK	8/7/2024
Min. Sq. Ft.: 7,500 S.F. Shown: 68,135 S.F.	OK	8/7/2024
Density – Based on Usable Land		
Units Per Acre Allowed: NA Shown: NA	NA	8/7/2024
Max # Units: NA # Units Shown: NA	NA	8/7/2024
Setbacks – Direction		
Front: SR A1A Required: 20 ft , Shown: 176 ft	OK	8/7/2024
Side: South Required: 10 ft , Shown: 29.8 ft	OK	8/7/2024
Rear: West Required: 20 ft , Shown: 20 ft	OK	8/7/2024
Side: North Required: 10 ft , Shown: 10 ft	OK	8/7/2024
Lot Coverage – Max: 35% , Shown: 34.6%	OK	8/7/2024
Green Area – Min: NA% , Shown: 24.2%	OK	8/7/2024
Open Space (PUDs only) – Min %, Shown %	NA	8/7/2024
Common Open Space (PUDs only)	NA	8/7/2024
Retail/Commercial (MXDs only) – Max %, Shown %	NA	8/7/2024
Building Height		
Max: 35 ft (plus decorative elements per SPEX12022030)		
Shown: 32 ft (plus decorative elements)	OK	8/7/2024
Building Width – Max NA. , Shown NA.	NA	8/7/2024
Building Separation	NA	8/7/2024
Breezeway – Min _____ %, Shown _____ %	NA	8/7/2024
Landscaping Plan	OK	8/7/2024
Irrigation Plan	OK	8/7/2024
Sidewalks Provided	NA	8/7/2024
Public Beach Access Provided	NA	8/7/2024

Balcony Overhangs	NA	8/7/2024
Parking Spaces – Req: 29 , Shown: 35	OK	8/7/2024
Parking Stalls – Meet Minimum Dimensions	OK	8/7/2024
Handicap Parking / ADA access	OK	8/7/2024
Curb Cuts – Existing: 3 , Req., Shown 2	OK	8/7/2024
Visual Obstructions? (corner lots only)	NA	8/7/2024
Driveway Ramps – Slope Allowed , Shown	NA	8/7/2024
Profile of Garage Ramp with Degree of Slope Shown	NA	8/7/2024
Off Street Loading Spaces – Required 0 Shown 0	OK	8/7/2024
Off Street Dumpster Loading	OK	8/7/2024
Elevations	OK	8/7/2024
Fences, Walls and Hedges	OK	8/7/2024
Accessory Structures	NA	8/7/2024
Location of Utilities	OK	8/7/2024
Location of Proposed Signs: Existing	OK	8/7/2024
Boundary Changes	OK	8/7/2024
Nonconformities formed on adjacent properties?	NA	8/7/2024
Sea Turtle Lighting Requirement Letter Received	OK	8/7/2024
Beaches and Dunes Requirement Letter Received	NA	8/7/2024
Special Flood Hazard Area	NA	8/7/2024
Location of Construction Parking for Duration of Project	OK	8/7/2024
Location of Public Easements	OK	8/7/2024
Requisite Permit Applications Received	OK	8/7/2024
Reviewed and Approved by Fire Division	OK	8/7/2024
Potable Water Availability Letter Received	OK	8/7/2024
Sewer Capacity Letter Received	OK	8/7/2024
Stormwater Maintenance Agreement Received	NA	8/7/2024
Stormwater Pollution Prevention BMP	OK	8/7/2024
Beach and Dune Assessment Report Received	NA	8/7/2024
Sewer Availability Confirmed by Concurrency Manager	OK	8/7/2024
Solid Waste Removal Letter Received	NA	8/7/2024
Stormwater Drawings Approved	OK	8/7/2024
School Concurrency	NA	8/7/2024
Transportation Impact Analysis Study Submitted	OK	8/7/2024
De Minimis Impacts Recorded	OK	8/7/2024
Concurrency Certification Received	OK	8/7/2024
Reviewed and Approved by Planning and Zoning Board	PENDING	

REMARKS:

SITE DEVELOPMENT PLAN REVIEWED BY:

Gwyn Herstein
Gwyn Herstein, City Planner

August 8, 2024
Date

Stewart Cruz
Stewart Cruz, AICP, Community Services Director

8-8-24
Date

SITE DEVELOPMENT PLAN APPROVED BY PLANNING & ZONING BOARD:

With Modification(s) Indicated _____ Without Modifications _____

Print Name _____

Date

EXHIBIT H

Special Exception Conditions

CONDITIONS FOR APPROVAL OF REGULAR SITE PLAN RSP12023048

Date: August 7, 2024

DBS Planning and Zoning Board: August 12, 2024

Name Of Project	Shores Depot-All Aboard Storage, Interior Storage Facility
Project Number	12023048
Address & Parcel #	2616 S. Atlantic Avenue, Daytona Beach Shores, FL & 5322 0004 0140
Owners Name	2616 Atlantic LLC (Name changed from 91 Oneida LLC 4-29-24)
Applicant	Andy Clark, All Aboard Storage Owner
Project Coordinator	Brad Donley, P.E., Newkirk Engineering, Inc.

Conditions of Special Exception SPEX12022030* issuance (as approved by the Planning and Zoning Board March 13, 2023):

1. 35 feet maximum height of the building for sides with allowance for additional height for roof. Roof shall include a red terra cotta roof feature. Staff comment: OK
2. Use the lower elevation of the unimproved parcel as the base elevation, rather than that of the paved lot, which currently has a higher elevation. Staff comment: OK
3. Add to the facade, especially in the rear (west elevation), using a terra cotta/red color to create faux windows with shutters, giving the building a "Mediterranean" style with a "barrel tile" roof element. Staff comment: OK
4. Position the building to create a 20-foot side setback from the north property line. Staff comment: OK
5. Use low-level / one-story lighting in rear of building (west elevation). Staff comment: OK – Pending building permitting
6. Ensure that loading / unloading is conducted on the east side of the building. Staff comment: OK
7. Restrict the hours of access to the building to begin at 6 a.m. and end at 9 p.m. Staff comment: OK
8. Provide a landscape buffer between Sea Havens and the proposed building to include 6 palm trees per 100 linear feet, with species dependent upon availability and survivability. Each tree shall have a gray wood trunk at least 6' in height. Staff comment: OK

*This Special Exception was conditionally approved allowing expansion west of the existing Interior Storage Facility on the site.



**PLANNING & ZONING BOARD AGENDA MEMORANDUM
AUGUST 12, 2024 AGENDA**

TO: The Members of the Planning & Zoning Board

FROM:

PREPARED BY: Gwyn Herstein, Code Enforcement Coordinator

SUBJECT: Discussion about November's regularly scheduled meeting date - November 11th, which is Veterans' Day. Monday, November 4th is a possible substitute.

SYNOPSIS:

FISCAL IMPACT STATEMENT:

BACKGROUND:

LEGAL REVIEW:

RECOMMENDATION:

SUGGESTED MOTION:

ATTACHMENT: None