PLANNING DIVISION



2600 Hollywood Boulevard Room 315 Hollywood, FL 33022 File No. (internal use only):__

GENERAL APPLICATION

Manager and American State of the Company of the Co	
	APPLICATION TYPE (CHECK ONE):
Highlywood FLORIDA	☐ Technical Advisory Committee ☐ Historic Preservation Board ☐ City Commission ☐ Planning and Development Board ☐ Date of Application: 19. 19. 20/8
Tel: (954) 921-3471 Fax: (954) 921-3347 This application must be completed in full and	Location Address: 2200 MADISON STREET Lot(s): 22 E 50 Block(s): 2 Subdivision: LITTLE RANCHE Folio Number(s): 5142 16 01 1780 Zoning Classification: DH-2 Land Use Classification: MULTIFAMILY DISTRICT Existing Property Use: VACANT LAND Sq Ft/Number of Units: 10246 SQFT
submitted with all documents to be placed on a Board or Committee's agenda.	Is the request the result of a violation notice? () Yes No If yes, attach a copy of violation Has this property been presented to the City before? If yes, check all that apply and provide Fill Number(s) and Resolution(s):
The applicant is responsible for obtaining the appropriate checklist for each type of application.	☐ Economic Roundtable ☐ Technical Advisory Committee ☐ Historic Preservation Board ☐ City Commission ☐ Planning and Development Explanation of Request: Submission for site plan approval, to move forward to submit for permit.
Applicant(s) or their authorized legal agent must be present at all Board or Committee meetings. At least one set of the	Number of units/rooms: 12 Sq Ft: 10250 Value of Improvement: \$1,250,000 Estimated Date of Completion: DEC 2020 Will Project be Phased? () Yes No If Phased, Estimated Completion of Each Phase
	Name of Current Property Owner: WILFERZ LEASING LLC Address of Property Owner: 2239 JACKSON STREET, HOLLYWOOD FL 33020 Telephone: 786-838-7310 Fax: Email Address: wilferzco@gmail.com Name of Consultar //Representative/ enant (circle one): PABLO J FERNANDEZ
ccessed on the City's website	Address:
Sumentoenter/Home/view/21	If Yes, Attach Copy of the Contract. List Anyone Else Who Should Receive Notice of the Hearing: Address: Email Address:

1

PLANNING DIVISION



File No. (internal use only):

2600 Hollywood Boulevard Room 315 Hollywood, FL 33022

GENERAL APPLICATION

CERTIFICATION OF COMPLIANCE WITH APPLICABLE REGULATIONS

The applicant/owner(s) signature certifies that he/she has been made aware of the criteria, regulations and guidelines applicable to the request. This information can be obtained in Room 315 of City Hall or on our website at www.hollywoodfl.org. The owner(s) further certifies that when required by applicable law, including but not limited to the City's Zoning and Land Development Regulations, they will post the site with a sign provided by the Office of Planning and Development Services. The owner(s) will photograph the sign the day of posting and submit photographs to the Office of Planning and Development Services as required by applicable law. Failure to post the sign will result in violation of State and Municipal Notification Requirements and Laws.

(I)(We) certify that (I) (we) understand and will comply with the provisions and regulations of the City's Zoning and Land Development Regulations, Design Guidelines, Design Guidelines for Historic Properties and City's Comprehensive Plan as they apply to this project. (I)(We) further certify that the above statements and drawings made on any paper or plans submitted herewith are true to the best of (my)(our) knowledge. (I)(We) understand that the application and attachments become part of the official public records of the City and are not returnable.

Julialet 1

Signature of Current Owner:	Date: 10-18-2019
PRINT NAME: PABLO J FERNANDEZ - MANAGER	
Signature of Consultant/Representative:	Date:
PRINT NAME:	Date:
Signature of Tenant:	Date:
PRINT NAME:	Date:
Current Owner Power of Attorney	
I am the current owner of the described real property and that I am aware of the to my property, which is hereby made to be my legal representative before the Committee) relative to all matters concerning this application.	ne nature and effect the request for by me or I am hereby authorizing (Board and/or
Sworn to and subscribed before me	
this day of Sig	nature of Current Owner
Notary Public Prir	nt Name
My Commission Expires:(Check One)Personally known to me; OR Produ	uced Identification



TESTING LABORATORIES-ENGINEERS-INSPECTION SERVICES-CHEMISTS-DRILLING-ENVIRONMENTAL SERVICES

May 24, 2019

Wilferz Company, LLC 2239 Jackson Street Hollywood, FL 33020

RE:

Geotechnical Engineering Study for Three Story Apartments 2200 Madison Street, Hollywood, FL

To Whom It May Concern,

This letter presents the results of All State Engineering & Testing Consultants, Inc. (ASETC) Geotechnical Engineering Study for the above referenced project. The purpose of the geotechnical engineering study was to evaluate the site subsurface conditions and provide foundation recommendations for the project.

Project Description

Our understanding of the site is based on our observations during our subsurface investigation. Information you provided to us indicates the project consists of the construction of a Three Storey Apartments.

Test Method and Subsurface Investigation

The borings were conducted in accordance with procedures outlined for Standard Penetration Test and split spoon sampling of soils by ASTM Method D-1586 as described below.

Two (2) feet long, two (2) inches O.D. split spoon sampler was driven into the ground by successive blows with a 140 lbs hammer dropping thirty (30) inches. The soil sampler was driven two (2) feet at a time (continuous method) then extracted for visual examination and classification of the soil samples.

The number of blows required for one (1) foot penetration of the sample is designated as "N" (known as the standard Penetration Resistance Value). The N Value provides an indication of the relative density of non-cohesive soils and the consistency of cohesive soils. A general evaluation of soils is made from the established correlation between "N" and the relative density or consistency of soils. This dynamic method of soil testing has been widely accepted by foundation engineers and architects to conservatively evaluate the bearing capacity of soils.

The subsurface investigation consisted of performing three (3), 15-ft deep Standard Penetration Test (SPT) borings (B-1, B-2 and B-3). The borings were performed on May 21, 2019.



Based on the information obtained from the SPT borings,

Boring B-1 comprised of

Sand with rock particles from 0'-0" to 3'-0" with N values ranging from 11 to 15.

White sand from 3'-0" to 8'-0" with N values ranging from 9 to 11.

Dark brown tan sand from 8'-0" to 15'-0" with N values ranging from 12 to 17.

Boring B-2 comprised of

Sand with rock particles from 0'-0" to 3'-0" with N values ranging from 11 to 12.

White sand from 3'-0" to 7'-0" with N values ranging from 11 to 13.

Dark brown tan sand from 7'-0" to 15'-0" with N values ranging from 13 to 17.

Boring B-3 comprised of

Sand with rock particles from 0'-0" to 2'-0" with an N value of 19.

White sand from 2'-0" to 6'-0" with N values ranging from 11 to 13.

White sand with brown sand traces from 6'-0" to 7'-0" with an N value of 17.

Brown sand from 7'-0" to 8'-0" with an N value of 17.

Dark brown sand from 8'-0" to 15'-0" with N values ranging from 16 to 20.

Detailed subsurface information is provided in the attached SPT Soil Boring Reports.

Groundwater Conditions

The groundwater table was encounter between 6'-11' to 7'-2" below the existing ground surface during the performance of the borings. The groundwater elevation is expected to change with seasonal and tidal fluctuations, and during storm/hurricane events. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

Foundation Evaluation and Recommendations

Shallow Foundation

Site Preparation Procedures

The site preparation work is expected to include site clearing, subgrade leveling, the placement and compaction of fill and backfill material, proofrolling and compaction grouting (Low Mobility Grouting) in combination with Vibro Replacement (Stone Columns).

The site clearing should be performed in all the areas of proposed foundation construction and support of on-grade site features. Site clearing should encompass removing all unsuitable materials such as topsoil, organics, trash, and any other deleterious materials. Upon clearing, proofrolling of the areas of proposed construction or support of on-grade features should be performed. Any soft area observed during proofrolling should be removed and replaced with approved fill material.

We recommend excavate entire building area plus 5'-0" outside the perimeter of construction and remove all unsuitable subsurface material to the necessary depth. We anticipate an average excavation depth of approximately 2 inches.

Any fill and backfill materials should be placed in lifts which do not exceed twelve (12) inches. The fill and backfill materials are to be compacted to field dry densities of not less than **98**% of their Maximum Dry Density as determined by the Modified Proctor Compaction Test (ASTM D-1557). The fill and backfill materials should consist of inorganic granular soils, free from deleterious materials, and should be preapproved by our firm.



The footing and slab subgrades should be compacted to field dry densities of not less than **98%** of their Maximum Dry Density as determined by the Modified Proctor Compaction Test (ASTM D-1557).

Based on the proposed construction, our evaluation of the site subsurface conditions, the Site Preparation Procedures given above having been achieved and verified, we confirm that spread footings and single column pads may be appropriately designed for a *safe soil bearing capacity of 4000 lb/ft*².

Limitations

Regardless of the thoroughness of our geotechnical exploration there is always a possibility that conditions on the subject project may be different from those at the test locations. With this being said, ASETC reserves the right to amend/supplement this report upon discovery of new information. Should any subsoil conditions different from those reported in our boring logs be encountered during construction, All State Engineering and Testing Consultants, Inc. should be notified immediately.

The conclusions provided by All State Engineering & Testing Consultants, Inc. are based solely on the information presented in this report. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

We appreciate the opportunity to have been of service to you. Please feel free to contact us if there are any questions or comments pertaining to this report.

Sincerely,

John Buscher PE#41844
All State Engineering &
Testing Consultants, Inc.

ATTACHMENT 1.0 - BORING LOG







TESTING LABORATORIES-ENGINEERS-INSPECTION SERVICES-CHEMIST-DRILLING-ENIVIRONMENTAL SERVICES
12949 West Okeechobee Rd. Unit C-4. Hialeah Gardens, Florida 33018 / Phone: 305-888-3373, Fax: 305-888-7443

SPT SOIL BORING REPORT

CLIENT	:	Page:	1 of 1		
	ADDRESS:	Wilfrez Company LLC ESS: 2239 Jackson Street, Hollywood, FL 33020			1
PROJE	CT:	3 Storey Apartment	Boring #:	B-1	
	CT ADDRESS:	2200 Madison Street, Hollywood, FL		Date:	5/21/19
BORING	G LOCATION:	North End of Lot		Driller:	TH
DEPTH (FEET)		DESCRIPTION OF MATERIALS	Sample No.	Hammer blows on sampler	"N" Value
1 2	0'-0" to 3'-0" Sa	and with rock particles	0'-2'	6 8 7 7	. 15
3 4	3'-0" to 8'-0" W	hite sand	2'-4'	5 6 5 5	. 11
5			4'-6'	4 5 4 4	. 9
7 8			6'-8'	4 5 5 5	10
9	8'-0" to 15'-0" [ark brown tan sand	8'-10'	7 9 8 8	17
11			10'-12'	7 8 6 7	14
13 14			12'-14'	6 7 7 6	14
15 16	-		14'-16'	6 6 6 6	12
17			16'-18'		0
19			18'-20'		0
21 22			20'-22'		0
23			22'-24'		0
25 26			24'-26'		0
27 28			26'-28'		
29			28'-30'		
30	- L (D :		20-30	<u>:</u>	

End of Boring @ 15'-0"

WATER TABLE: 7'-2"below surface

Respectfully Submitted:

John Buscher PE#41844

All State Engineering & Testing Consultants, Inc.

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.



TESTING LABORATORIES-ENGINEERS-INSPECTION SERVICES-CHEMIST-DRILLING-ENIVIRONMENTAL SERVICES
12949 West Okeechobee Rd. Unit C-4. Hialeah Gardens, Florida 33018 / Phone: 305-888-3373, Fax: 305-888-7443

SPT SOIL BORING REPORT

CLIENT	ENT: Wilfrez Company LLC			Page:	1 of 1
	ADDRESS: 2239 Jackson Street, Hollywood, FL 33020			Report #: Boring #:	1
PROJE		3 Storey Apartment			B-2
PROJE	CT ADDRESS:	2200 Madison Street, Hollywood, FL		Date:	5/21/19
BORING	G LOCATION:	Center of Lot		Driller:	TH
DEPTH (FEET)		DESCRIPTION OF MATERIALS	Sample No.	Hammer blows of sampler	n "N" Value
1 2	0'-0" to 3'-0" Sa	and with rock particles	0'-2'	5 6 6 5	12
3				6 6	11
4	3'-0" to 7'-0" W	hite sand	2'-4'	5 4	
5 6			4'-6'	4 5 6 5	11
7				5 6	
8	7'-0" to 15'-0" D	oark brown tan sand	6'-8'	7 8	13
9			8'-10'	8 8 8 9	16
11			0 10	8 7	14
12			10'-12'	7 7	
13 14			12'-14'	6 8 8 8	16
15				8 9	17
16			14'-16'	8 9	
17 18	=		16'-18'		0
19			18'-20'		0
20					0
22			20'-22'		
23 24			22'-24'		0
25					0
26 27			24'-26'		-
28			26'-28'		
29 30			28'-30'		
30			20-30	Li	

End of Boring @ 15'-0"

WATER TABLE: 7'-0" below surface

Respectfully Submitted:

John Buscher PE#41844

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12949 West Okeechobee Rd. Unit C-4. Hialeah Gardens, Florida 33018 / Phone: 305-888-3373, Fax: 305-888-7443

SPT SOIL BORING REPORT

CLIENT	LIENT: Wilfrez Company LLC				1 of 1
	T ADDRESS: 2239 Jackson Street, Hollywood, FL 33020			Report #:	1
PROJE	ECT: 3 Storey Apartment			Boring #:	B-3
PROJE	CT ADDRESS:	2200 Madison Street, Hollywood, FL		Date:	5/21/19
BORING	G LOCATION:	South Side of Lot		Driller:	TH
DEPTH (FEET)		DESCRIPTION OF MATERIALS	Sample No.	Hammer blows of sampler	n "N" Value
1 2	0'-0" to 2'-0" Sa	and with rock particles	0'-2'	8 9 10 8	19
	2'-0" to 6'-0" W	hito sand	0-2		
3	2-0 10 0-0 VV	Title Sand	01.41	6 7	13
4	-		2'-4'	6 6	
5 6			4'-6'	6 5 6 6	11
7	6'-0" to 7'-0" W	hite sand with brown sand traces		7 9	17
8	7'-0" to 8'-0" Br	own sand	6'-8'	8 8	
9	8'-0" to 15'-0" [Dark brown sand	01.401	8 10	20
10			8'-10'	10 12	
11 12			10'-12'	11 9 8 8	17
13			10 12	8 7	16
14			12'-14'	9 10	
15			-	8 9	17
16			14'-16'	8 9	.,
17 18			16'-18'		0
19					0
20			18'-20'		
21 22			20'-22'		0
23					0
24			22'-24'		
25 26			24'-26'		0
27					
28			26'-28'		
29					
30			28'-30'		

End of Boring @ 15'-0"

WATER TABLE: 6'-11" below surface

Respectfully Submitted:

John Buscher PE#41844

All State Engineering & Testing Consultants, Inc.

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All State Engineering & Testing Consultants, Inc.
TESTING LABORATORIES-ENGINEERS-INSPECTION SERVICES-CHEMISTS-DRILLING-ENVIRONMENTAL SERVICES
12949 W Okeechobee Rd., Hialeah Gardens, FL 33018 Office: 305-888-3373 Fax: 305-888-7443 info@allstateengineering.com

PERCOLATION TEST

USUAL OPEN HOLE - CONSTANT HEAD

DATE:	May 21,2019	Test Number:	P-1		
CLIENT:	Wilfrez Company LLC				
CLIENT ADDRESS:	2239 Jackson Street, Hollywood, FL 33020				
PROJECT:	3 Story Apartment				
PROJECT ADDRESS:	2200 Mdison Street, Hollywood, FL				
LOCATION OF TEST:	Northside of Lot				

INTERVAL	ELAPSED TIME (MINUTES)	GPM
1	1:00	16
2	1:00	16
3	1:00	16
4	1:00	15
5	1:00	14
6	1:00	14
7	1:00	14
8	1:00	14
9	1:00	14
10	1:00	14

DEPTH OF HOLE:

15 feet

DEPTH OF WATER TABLE BELOW GROUND SURFACE:

DIA. OF HOLE: 0.5 feet

PERC. RATE:

14.7 GPM

SATURATED HOLE DEPTH:

8 feet

STABILIZED FLOW RATE:

7 feet

0.032752

k-VALUE:

2.56E-04

SUBSURFACE INVESTIGATION

Depth Below Ground Surface	Soil Description
0'-0" to 3'-0"	Sand
3'-0" to 8'-0"	Sand
8'-0" to 15'-0"	Tan sand

Field Technician: TH

Typed by: YR

Respectfully Submitted

John Buscher PE#41844 All State Engineering &Testing

Consultants, Inc.



TECHNICAL ADVISORY COMMITTEE REPORT

September 17, 2018

Wilferz Leasing LLC 5845 SW 21 Street West Park, FL 33023

FILE NUMBER: 18-DP-58

SUBJECT: Site Plan review for a 12 unit residential development (Madison Apartments).

SITE DATA

Owner/Applicant: Wilferz Leasing LLC
Address/Location: 2200 Madison Street

Gross Area of Property: 11,250.00 sq. ft. (0.25 acres)
Net Area of Property: 10,250.00 sq. ft. (0.23 acres)
Land Use: Regional Activity Center

Zoning: Dixie Highway Medium Intensity Multi-Family District (DH-2)

Existing Use of Land: Vacant Residential

ADJACENT LAND USE

North: Regional Activity Center
South: Regional Activity Center
East: Regional Activity Center
West: Regional Activity Center

ADJACENT ZONING

North: Dixie Highway Medium Intensity Multi-Family District (DH-2)

South: Dixie Highway Medium Intensity Multi-Family District (DH-2)

East: Dixie Highway High Intensity Mixed-Use District (DH-3)

West: Dixie Highway Medium Intensity Multi-Family District (DH-2)

APPLICANTS MUST ADDRESS ALL COMMENTS AND FINDINGS AS IDENTIFIED BY MEMBERS OF THE TECHNICAL ADVISORY COMMITTEE BOTH IN WRITING (IDENTIFY PAGE NUMBER OF THE CORRECTION) AND ON THE SITE PLAN (ALL CHANGES MUST BE IDENTIFIED, I.E. BUBBLED).

A. APPLICATION SUBMITTAL

Fitz Murphy, Planning Administrator (fmurphy@hollywoodfl.org) 954-921-3471

- 1. Ownership & Encumbrance Report:
 - a. Must be dated within 30 days of submittal packet.
 - Work with the Engineering Division to ensure the O&E is accurate and all easements and dedications are indicated.
- 2. Revise ALTA Survey as follows:
 - a. Work with the Engineering Division to ensure the survey includes the appropriate elements such as all easements and dedications are indicated.
 - b. Include net and gross property size in square feet and acreage.
- 3. Revise the Cover Sheet to
 - a. Indicate Page Index.
 - b. Clarify site location on Location Map.
- 4. Revise the following on Site Plan:
 - a. Indicate all required setback dimensions.
 - b. Indicate location for recycling.
 - c. Drawing shall be fully dimensioned, including but not limited to, architectural projections and parking stalls.
 - d. Include existing utility poles on site, including dimensions from the proposed building.
 - e. Include note on Site Plan indicating that all changes to the design will require planning review and may be subject to Board approval.
 - f. Work with the City's Landscape Architect to ensure that all landscape requirements are met.
- 5. Revise the following on Site Data Table:
 - a. Current Land Use and Zoning designations not provided. Revise accordingly.
 - b. Include required and provided height of structures.
 - c. Total square footage of each building or structure not provided. Revise accordingly.
 - d. Provide breakdown of all building areas including amenities, lobby, retail, etc.
 - e. Provide total floor area (A/C + balconies) for each unit type.

- f. FAR calculation incorrect. Revise accordingly.
- g. Staff has identified several inconsistencies in the pervious and impervious area calculations. Review and revise accordingly.
- 6. Complete and submit to Broward County School Board an impact fee application prior to submitting for Board consideration. Website:
 - $\underline{http://www.broward.k12.fl.us/propertymgmt/new/growthmanagement/docs/PublicSchoolImpactApplication.pdf}$
- 7. Staff encourages Applicant to meet with surrounding homeowner's associations prior to submitting for any Boards. Provide update with next submittal.
- 8. Additional comments may be forthcoming.
- 9. Provide written responses to all comments with next submittal.

B. ZONING

Fitz Murphy, Planning Administrator (fmurphy@hollywoodfl.org) 954-921-3471

- 1. Revise mechanical equipment:
 - a. Required mechanical equipment setback is three feet. Revise accordingly.
 - b. Mechanical equipment must be adequately screened with more than just landscape.
- Walls and other structural elements shall not encroach into required driveways. Work with Engineering to ensure that sufficient back-out is provided.
- 3. Provide the height of the proposed building.

C. ARCHITECTURE AND URBAN DESIGN

Fitz Murphy, Planning Administrator (fmurphy@hollywoodfl.org) 954-921-3471

- 1. Ensure that all plumbing, mechanical and electrical fixtures and equipment are indicated on Site Plan and Elevations.
- 2. Staff has found several discrepancies between the floor plan and elevations. Revise floor plans to include all architectural projections.
- 3. All renderings shall reflect actual proposed landscape material. Work with the City's Landscape Architect to ensure species proposed are appropriate.
- 4. Provide detail of guardrail. Indicate materials and maintenance requirements.
- 5. Ensure a fence or screen is reflected on the plans and elevations to screen the parking areas.
- 6. Provide dimensions on all elevations, including any projections above roof line.
- 7. Label all materials, including all changes in paint color and a typical note for score lines on each elevation.

- 8. Will there be a security gate to access parking area?
- 9. Clarify egress path of rear stair at ground level. Provide walkway.
- 10. Clarify intent for utility pole currently on site in the rear of the property.
- 11. Consider providing accessible balconies for each unit.
- 12. Consider revising North (Front) Elevation:
 - a. Front elevation does not match rendering. Revise accordingly.
 - b. Consider removing smaller frames to reduce clutter of architectural elements.
- 13. Consider revising North portion of East Elevation:
 - a. Include additional window on bedroom in unit A to evenly distribute blank wall.
 - b. Scoring to a texture and detail to large blank walls.
- 14. Consider revising South (Rear) Elevation:
 - a. Include additional window in bedroom in Unit-F to balance rear façade.
 - b. Consider removing window in living room in Unit-F on third floor.
 - c. Scoring to a texture and detail to large blank walls.

Terrence Comiskey A.I.A., Architect (tcomiskey@hollywoodfl.org) 954-921-3900

- 1. Sheet 1: The Dumpster enclosure does not have any details to review. How is recycling being accommodated?
- 2. Sheet 1: The A/C compressors are shown on the ground level where they can be vandalized. Consideration should be given to relocating them to the roof of the building.
- 3. Sheet 1: Is the elevator hydraulic? I don't see machine room.
- 4. Sheet 1. There is no room dedicated to janitorial supplies with a mop sink. How is the property to be maintained?
- 5. Sheet 2: Neither exit stair is in a fire rated enclosure.
- 6. No roof plan was included for review.
- 7. Parking appears to be inadequate for the number of units.

D. SIGNAGE

Fitz Murphy, Planning Administrator (fmurphy@hollywoodfl.org) 954-921-3471

- For review, full signage package shall be provided, including signage details, signs illustrated on Elevations, dimensions on Site Plan, etc.
- 2. All signs, which are electrically illuminated by neon or other means, shall require a separate electrical permit and inspection. Separate permits are required for each sign.

E. LIGHTING

Fitz Murphy, Planning Administrator (fmurphy@hollywoodfl.org) 954-921-3471

1. Application is substantially compliant.

F. GREEN BUILDING & ENVIRONMENTAL SUSTAINABILITY

Fitz Murphy, Planning Administrator (fmurphy@hollywoodfl.org) 954-921-3471

1. Application is substantially Compliant.

G. ENGINEERING

Luis Lopez, City Engineer (<u>Ilopez@hollywoodfl.org</u>) 954-921-3251 Clarissa Ip, Engineering Support Services Manager (<u>cip@hollywoodfl.org</u>) 954-921-3915

- 1. Driveway and drive aisle minimum width is 22 feet for two-way traffic.
- Provide civil plans for the proposed work. Provide and indicate items such as but not limited, curbing, all
 vehicle turning radii, vehicular sight triangles, pavement marking and signage plans and details. Indicate
 and show all change in elevations. Show any utility work within City rights-of-way for utility connection,
 indicate any pavement restoration. Full road width pavement restoration required, provide pavement
 restoration detail.
- 3. Indicate existing sidewalk along Madison Street to be replaced on plans.
- 4. All outside agency permits must be obtained prior to issuance of building permit.
- 5. Park impact fees will be required prior to issuance of Building Permit.
- 6. More comments may follow upon review of the requested information.

H. LANDSCAPING

Guillermo Salazar, Landscape Reviewer (<u>gsalazar@hollywoodfl.org</u>) 954-921-3900

Provide a detailed landscape plan by a Landscape Architect that complies with all the requirements
according to City of Hollywood Landscape manual, chapter 155.52, Article 9 LDR and section 6 landscape
Plan details and specifications for technical review process. Landscape plan set to include and clarify what
is been provided as per city code requirements for landscape for project zone type and any trees of
compensation or mitigation if any trees are to be removed.

Landscape plans to provide the following:

 Provide information for existing trees on site including location, species, estimated ht./spread, and caliper diameter of trunks

- 2. Provide a detailed tree disposition plan in separate (if any trees to be removed) and landscape plan by a registered professional licensed Landscape Architect in the State of Florida that compliments the building architecture and uses, provides for shade, beautifies the site, accentuates site features, and serves as a buffer where appropriate. Provide tabular data chart on plan that identifies City of Hollywood landscape requirements and how they are being met for Perimeter landscape, Interior landscape for at grade parking lots and vehicular use areas, open space, view triangle, planning and development board and historic preservation board and irrigation.
- 3. Provide irrigation plans for an automatic underground irrigation system for the project. Irrigation plans shall be prepared, signed and sealed by a registered professional licensed to do such design under State of Florida Statute 481.303(6)(c) or as otherwise prescribed under Florida Statutes.
- 4. Additional comments may be forthcoming.

According to Chapter 155.52 of the Code of Ordinances and the City of Hollywood Landscape Manual. Shade trees to be installed at a minimum size of 2" DBH/ 12' height. Existing trees meeting this criteria may be used as credit toward total requirement. Palm trees count toward tree requirements on a 3:1 basis, meaning 3 palms equal 1 broadleaf tree. The following palm species are the exception and count 1:1 as trees: Royal Palm, Phoenix sylvestris/Medjool/reclinata/canariensis, Bismarkia, and Coconut. Minimum height requirements for all palms at planting is 8' of CT.

5. No tree removals without a tree removal sub- permit. Supplemental arborist report might be required as needed to approve any tree removal permit. Applicant to submit a complete Broward County Uniform Building Application and separate application for tree removal and planting sub-permit. Submit approved and signed total final landscape installation estimate from Landscape contractor/installer for two separate sub-permits in separate to comply with existing pending city code tree planting and removal requirements.

Coordinate meeting with Guillermo Salazar Landscape plan reviewer for any further questions or clarifications at gsalazar@hollywoodfl.org.

I. <u>UTIL</u>ITIES

Wilford Zephyr, Engineer (<u>wzephyr@hollywoodfl.org</u>) 954-924-2985 Alicia Verea-Feria, Engineer (<u>averea-feria@hollywoodfl.org</u>) 954-921-3302

Water & Sewer Comments:

- 1. Provide water and sewer demand calculations on water and sewer plans.
- 2. Contractor to verify condition and size of water service and sewer lateral prior to connection.
- 3. Provide civil plans indicating location and size of proposed water and sewer connections to existing 8-inch water main and 8-inch sanitary sewer line.
- 4. Provide civil plans showing existing elevations as shown on survey.
- 5. Provide swales and cross sections for each property side to ensure onsite retention of stormwater runoff.
- 6. Indicate how roof drainage will be collected and retained onsite.
- 7. Provide pre vs post development drainage calculations.

- 8. Finished floor elevations (FFE) and equipment shall be at a minimum elevation of 10' NAVD88 minimum per FEMA FIRM Zone AH, with BFE at 9-feet NAVD 88.
- 9. Landscape architect should coordinate with civil plans to accommodate for drainage swales and retention areas accordingly.

J. BUILDING

Dean Decker, Interim Chief Building Official (ddecker@hollywoodfl.org) 954-921-3025

1. Application is substantially compliant.

K. FIRE

Janet A. Washburn, Fire Marshal/Division Chief (jwashburn@hollywoodfl.org) 954-921-3554

No Fire review for TAC is limited to water supply for firefighting purposes and fire dept. access. A full architectural review will be completed when an application and plans are submitted to the third floor building dept.

- 1. Water supply must meet NFPA 1, 18.4.5.2. In order to determine the minimum fire flow for firefighting, calculations are required by the civil engineer. The civil engineer shall show on civil drawings the calculations using table 18.4.5.1.2 found in NFPA 1, 2015 edition. See also NFPA 1, 18.5.4 Minimum Number of Fire Hydrants for Fire flow.
- 2. As a result of that test, show any existing and new (if needed) fire hydrants on civil drawings. The minimum distance to a fire hydrant shall not exceed 400' per NFPA 1, 18.5.3. It's unclear if any are needed as no civil drawings were included.
- 3. Provide a note on required civil drawings that underground fire main work will be completed by a contractor holding a Class I, II, or V license per FS 633.102.
- 4. A fire alarm system is required per NFPA 101, 30.3.4.1.1.

L. PUBLIC WORKS

Charles Lassiter, Environmental Services Supervisor (classiter@hollywoodfl.org) 954-967-4207

1. No comments received.

M. PARKS, RECREATION AND CULTURAL ARTS

David Vazquez, Assistant Director (dvazquez@hollywoodfl.org) 954-921-3404

1. Park impact fee application.

N. COMMUNITY DEVELOPMENT

Clay Milan, Community Development Manager (cmilan@hollywoodfl.org) 954-921-3271

- 1. Are units for rent or for sale?
- 2. If for sale, are any units affordable to households making less than 80% of the Area Median Income (\$51,750 for household of 2)?
- 3. If rental, do rents meet HUD's criteria for Fair Market Rent in local area (\$1,080 1 bedroom)?

- 4. Is there a perimeter fence?
- 5. Why is no landscape buffer shown at rear property line?
- 6. HVAC condensers must be screened from street view.
- 7. How is access to lobby controlled?
- 8. Show details of dumpster room doors. Space may need hose bib and floor drain.
- 9. What type of surface is parking area?
- 10. Rendering of front doesn't reflect 4' deep balcony shown on plan (sheet 2) for Unit B. Please clarify.
- 11. Sheet 2 Is balcony of Unit A accessible from inside?
- 12. Show details of second floor on separate sheet.
- 13. Notify the two area civic associations:

Highland Gardens Civic Asso. Meets on 4th Wed at 7:00 p.m., 1411 S. 28th Ave., David Kout, President, dlkpa@aol.com

United Neighbors of South Hollywood. Meets on 3rd Thurs at 7:00 p.m., 1411 S. 28th Ave., Helen Chervin, President, helenandred@gmail.com

O. ECONOMIC DEVELOPMENT

Raelin Storey, Director (<u>rstorey@hollywoodfl.org</u>) 954-924-2922

- 1. Check side and rear setbacks 5' required check screening of A/C unit.
- 2. Garage turning seems too tight for collection of dumpsters and entrance is under 22 ft. for drive aisle.
- 3. What is sq. footage per unit and what are anticipated asking rents?

P. POLICE DEPARTMENT

Christine Adamcik, Police (<u>cadamcik@hollywoodfl.org</u>) 954-967-4371 Steven Bolger, Police (<u>sbolger@hollywoodfl.org</u>) 954-967-4500 Doreen Avitabile, Police (<u>davitable@hollywoodfl.org</u>) 954-967-4371

1. No comments received.

Q. DOWNTOWN AND BEACH CRA

Jorge Camejo, Executive Director (jcamejo@hollywoodfl.org) 954-924-2980 Susan Goldberg, Deputy Director (sgoldberg@hollywoodfl.org) 954-924-2980

1. Not applicable.

R. PARKING

Harold King, Parking Administrator (hking@hollywoodfl.org) 954-921-3549 Tamikia Bacon, Parking Operations Manager (tbacon@hollywoodfl.org) 954-921-3548

1. Application is substantially compliant.

S. ADDITIONAL COMMENTS

Fitz Murphy, Planning Administrator (fmurphy@hollywoodfl.org) 954-921-3471

1. Additional comments may be forthcoming.

The Technical Advisory Committee finds this application substantially compliant with the requirements of Preliminary Review; therefore, the Applicant should submit for Final TAC review.

Please be advised, in the future any additional review by the TAC may result in the payment of additional review fees.

If these comments have not been addressed within 120 days of this dated report the application will expire. As a result, a new application and fee will be required for additional review by the TAC.

Note that any use proposed for the site shall be consistent with Zoning and Land Development Regulations.

Should you have any questions, please do not hesitate to contact your Project Planner at 954-921-3471.

Sincerely,

Deandrea Moise
Planning Administrator

C: Pablo J Fernandez via email wilferzco@gmail.com





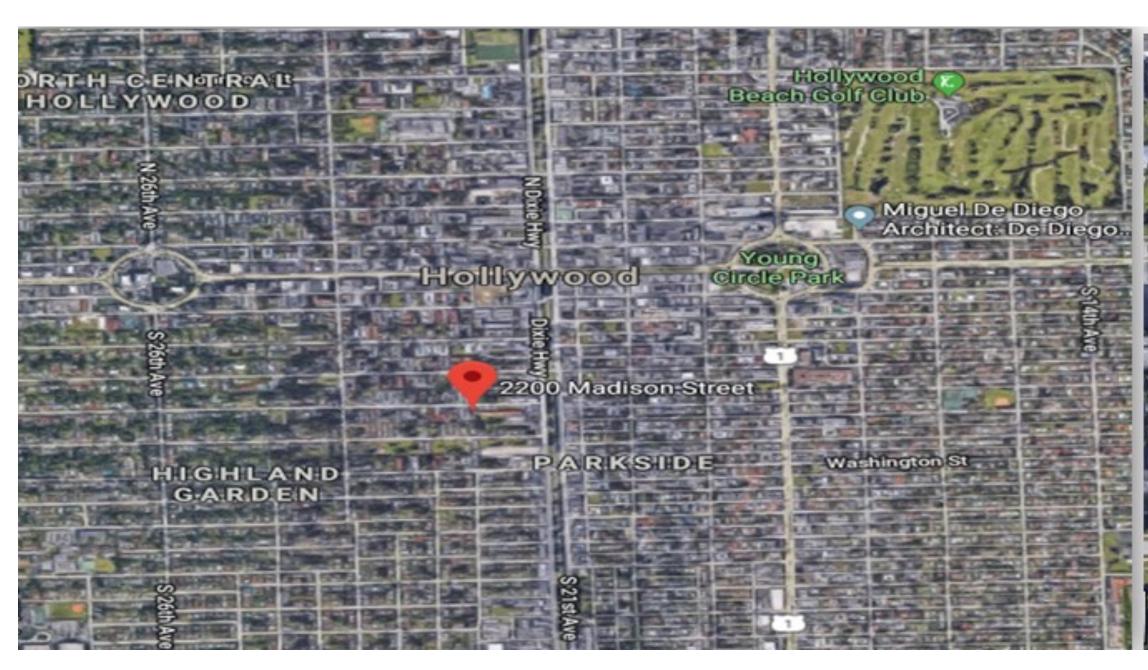
PROJECT NAME: 2200 MADISON

MEETING: PRELIMINARY TAC

MEETING DATE: NOV /2019

PROJECT: 12 APARTMENT BUILDING

DESTINATION: RENT







WILFERZ COMPANY, LLC – WILFERZ LEASING, LLC
WILFERZ BUILDERS, LLC
2239 JACKSON ST HOLLYWOOD FL 33020
786-838-7310 / 786-838-8159
WILFERZCO@GMAIL.COM

WWW.WILFERZ.COM



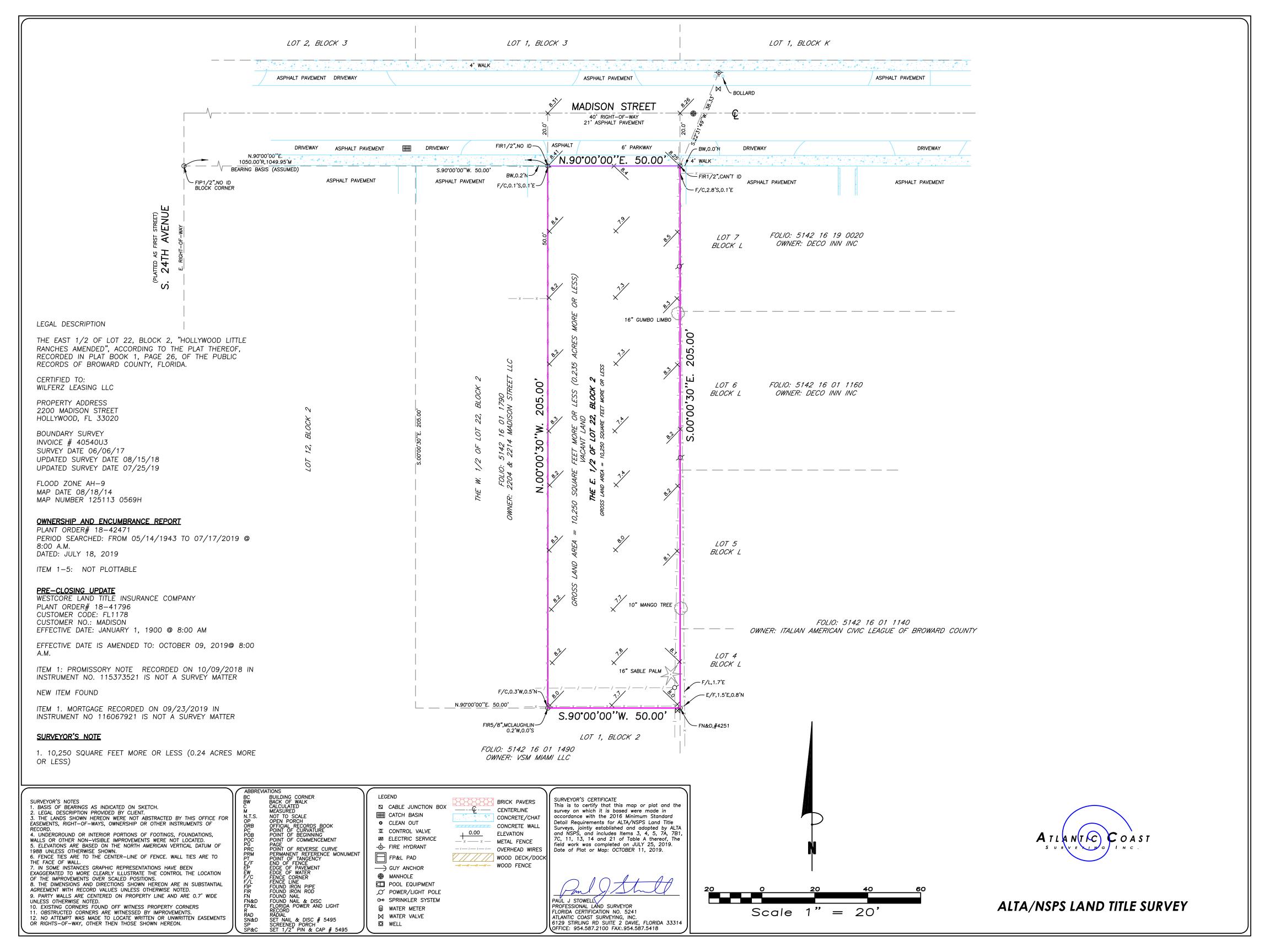


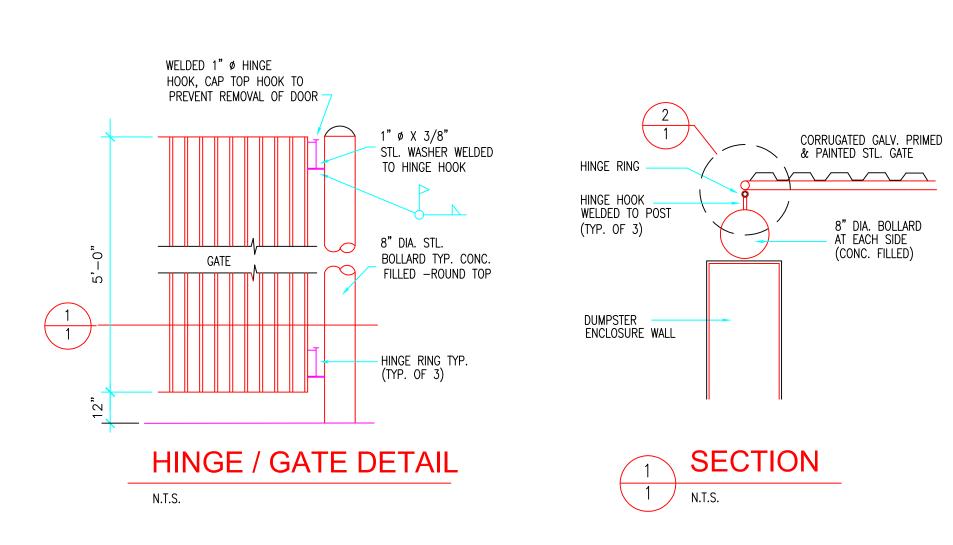
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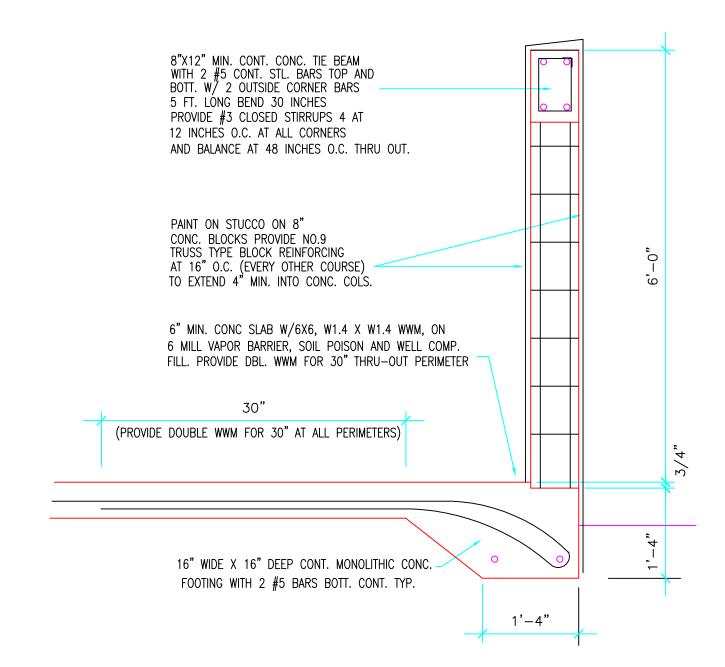
- 1) OWNERSHIP AND ENCUMBRANCE REPORT (O&E)
- 2) CERTIFIED ALTA SURVEY
- 3) SITE PLAN & FLOOR PLAN
- 4) LANDSCAPING AND IRRIGATION PLANS
- 5) CIVIL & DRAINAGE PLANS
- 6) STREET PROFILE
- 7) RENDERS

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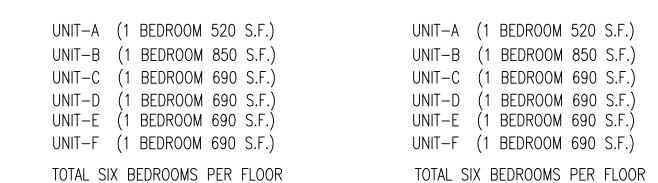






DUMPSTER ENCLOSURE SECTION

SCALE: 3/4"=1'-0"



GREEN BUILDING REQUIREMENTS (151.153)

- 1. ALL DOORS SHALL CONFORM TO THE ENERGY STAR RATING CRITERIA FOR SOUTH FLORIDA
- 2. PROVIDE PROGRAMABLE THERMOSTATS
- 3. PROVIDE DUAL FLUSH TOILETS. VERIFY TO USE LESS THAN ONE GALLON TO FLUSH LIQUIDS AND 1.6 GALLONS OR LESS FOR SOLIDS.
- 4. PROVIDE MERV OF AIR FILTERS ON ALL AIR CONDITIONING UNITS AT LEAST 8 WITH ANTIMICROBIAL AGENT. MERV OF AT LEAST 8 SHALL BE VERIFIED BY THE MECHANICAL INSPECTOR ON SITE AT FINAL INSPECTION.
- 5. ALL OUTDOORS LIGHTS INCLUDING FLUORECENT BULBS AND FIXTURES WITH ELECTRONIC BALLAST LOW PRESSURE SODIUM OR MERCURY VAPOR, PHOTOVOLTAIC SYSTEM, LED LIGHTING AND LOW VOLTAGE LANDSCAPE LIGHTS THAT RUN ON TIMER. ALL ENERGY EFFICIENT OUTDOOR LIGHTING SHALL BE VERIFIED BY THE ELECTRICAL INSPECTOR AT FINAL INSPECTION.
- 6. AT LEAST 80% OF PLANTS, TREES AND GRASSES PER SO. FL. WATER MANAGEMENT DISTRICT RECOMMENDATIONS 7. PROVIDE ALL ENERGY EFFICIENT OUTDOOR LIGHTING
- 8. ALL HOT WATER PIPES TO BE INSULATED
- 9. ALL UNITS TO HAVE TANKLESS WATER HEATERS

10. ROOF MATERIAL TO BE ENERGY STAR COMPLIANCE

- 1. ALL SIGNAGE SHALL COMPLY WITH THE ZONING AND LAND DEVELOPMENT REGULATIONS
- 2. ROOF MATERIAL TO BE HIGH ALBEDO (TO BE DETERMINED BY THE OWNER) 3. 8,328 TOTAL S.F. /12 = 694 AVERAGE CUMULATIVE SQ. FT. FOR DWELING UNITS
- 4. FOOT CANDLE LEVEL AT PROPERTY LINE TO BE 0.5 MAX. 5. RAILINGS AT BALCONIES TO BE ALUM. AND SLAB TO BE CONCRETE
- 6. ALL CHANGES TO THE DESIGN WILL REQUIRE PLANING REVIEW AND MAY BE SUBJECT TO BOARD APPROVAL.

ELECTRIC VEHICLE CHARGING

PROVIDE TWO EMPTY 3/4" COND. IN EACH GARAGE TO A DBL. TWO GANG JUNCTION BOX WITH BLANK PLATE. PROVIDE AS PER N.E.C. AND SAE J1772 TO A TWO GANG JUNCTION BOX WITH BLANK PLATE

SITE NET: 10,250.00 S.F. 0.23 ACRES SITE GROSS 11,250.00 S.F. 0.25 ACRES

SITE CALCULATIONS

SITE: 10,250.00 S.F. 0.23 ACRES 425.00 S.F. 4.14 % \ BLDG FOOTPRINT

325.00 S.F. 3.17 % INTERIOR WALKWAYS 235.00 S.F. 2.29 % > 7,155.00 S.F. 69.81 % INTERIOR WALKWAYS 6,170.00 S.F. 60.19 % / PARKING AND DRIVES

3,095.00 S.F. 30.19 %

LANDSCAPE DENSITY CALCULATION:

F.A.R. = 1.75 MAXLOT 10,250 X 1.75 = 17,937 S.F. ALLOWED

10,667 S.F. PROVIDED

THIRD FLOOR SECOND FLOOR

5,121.00 S.F.

LIVING AREA LIVING AREA 4,164.00 S.F. 4,164.00 S.F. 625.00 S.F. 625.00 S.F. WALKWAYS WALKWAYS ELEVATOR AND STAIRS 200.00 S.F. ELEVATOR AND STAIRS 200.00 S.F. 132.00 S.F. 132.00 S.F. BALCONIES BALCONIES

TOTAL FLOOR

5,121.00 S.F.

TOTAL FLOOR

GROUND FLOOR

LOBBY		425.00 S.F.
EXTERIOR STAIRS		84.00 S.F.
DUMPSTER ENCL	OSURE	126.00 S.F.
BIKE RACK		50.00 S.F.
CONC. WALKS		300.00 S.F.
PARKING AND DE	RIVES	6,170.00 S.F.
LANDSCAPE		3,095.00 S.F.
TO	TAI	10,250.00 S.F.
10	/ IAL	10,200.00 3.1.

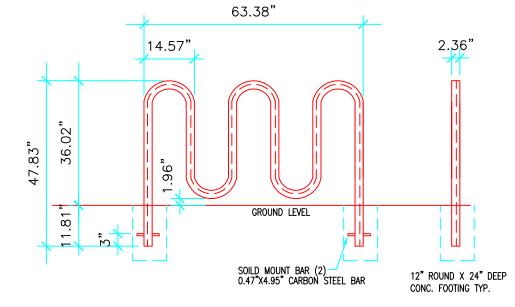
ZONED DH-2 EXISTING VACANT RESIDENCIAL LEGAL DESCRIPTION:

THE EAST 1/2 OF LOT 22 BLOCK-2 HOLLYWOOD LITTLE RANCHES AMENDED PLAT BOOK 1 PAGE 26 BROWARD COUNTY FLORIDA

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

SETBACKS		
FRONT REAR SIDE BI DG HFIGHT	REQUIRED 15'-0" 20'-0" 5'-0"	PROVIDE 22'-0" 60'-0" 5'-0"
DEDG HEIGHI	40 -0	33 -0

PARKING CALCULATIONS: REQUIRED ONE SPACE FOR EACH UNIT 12 UNITS = 12 PARKING SPACE REQUIRED 13 PARKING SPACES PROVIDED



BICYCLE RACK DETAIL

N.T.S.

)jega

2

DRAWN DATE 9-5-2019

COMM. NO. 17-160

42" HG ALUM RAILING

10'-0"

9'-8"

42" HG ALUM RAILING

9'-8"

10'-0"

KITCHEN

42" HG ALUM RAILING

12'-0"

9'-2"

42" HG ALUM RAILING

17'-3"

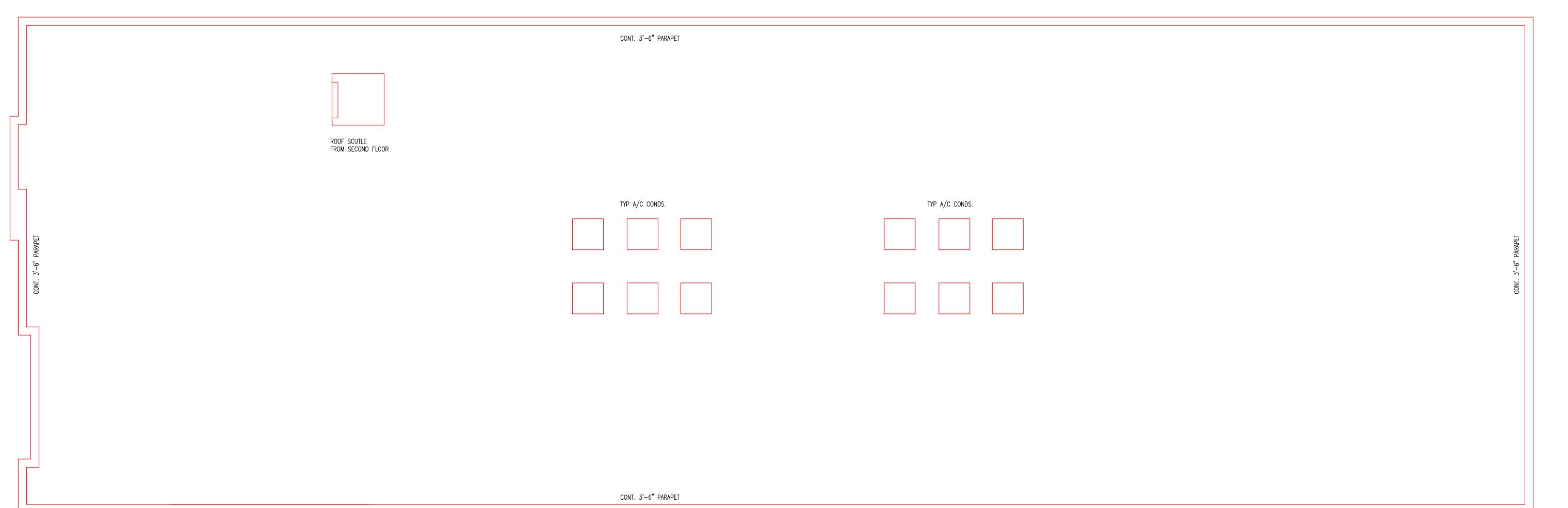
TYP. FLOOR PLAN

SCALE: 1/4"=1'-0"
6 UNITS PER FLOOR

42" HG ALUM RAILING

7'-6"

9'-8"



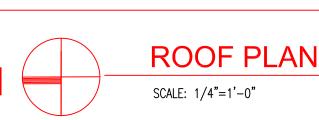
10'-0"

122'-4"

123'-0"

42" HG ALUM RAILING

9'-8"



12 UNIT APARTMENTS
SITE DESIGN
2200 MADISON STREET
HOLLYWOOD, FLORIDA
ACT: JUAN F. WILKES (786) 838-7310
PABLO FERNANDEZ (786) 838-7310

A R C H I T E C T P.A.

AA-26001641 AR-13378

TER STREET SUITE 107 HOLLYWOOD, FLORIDA 33020

PH (954) 926-3358

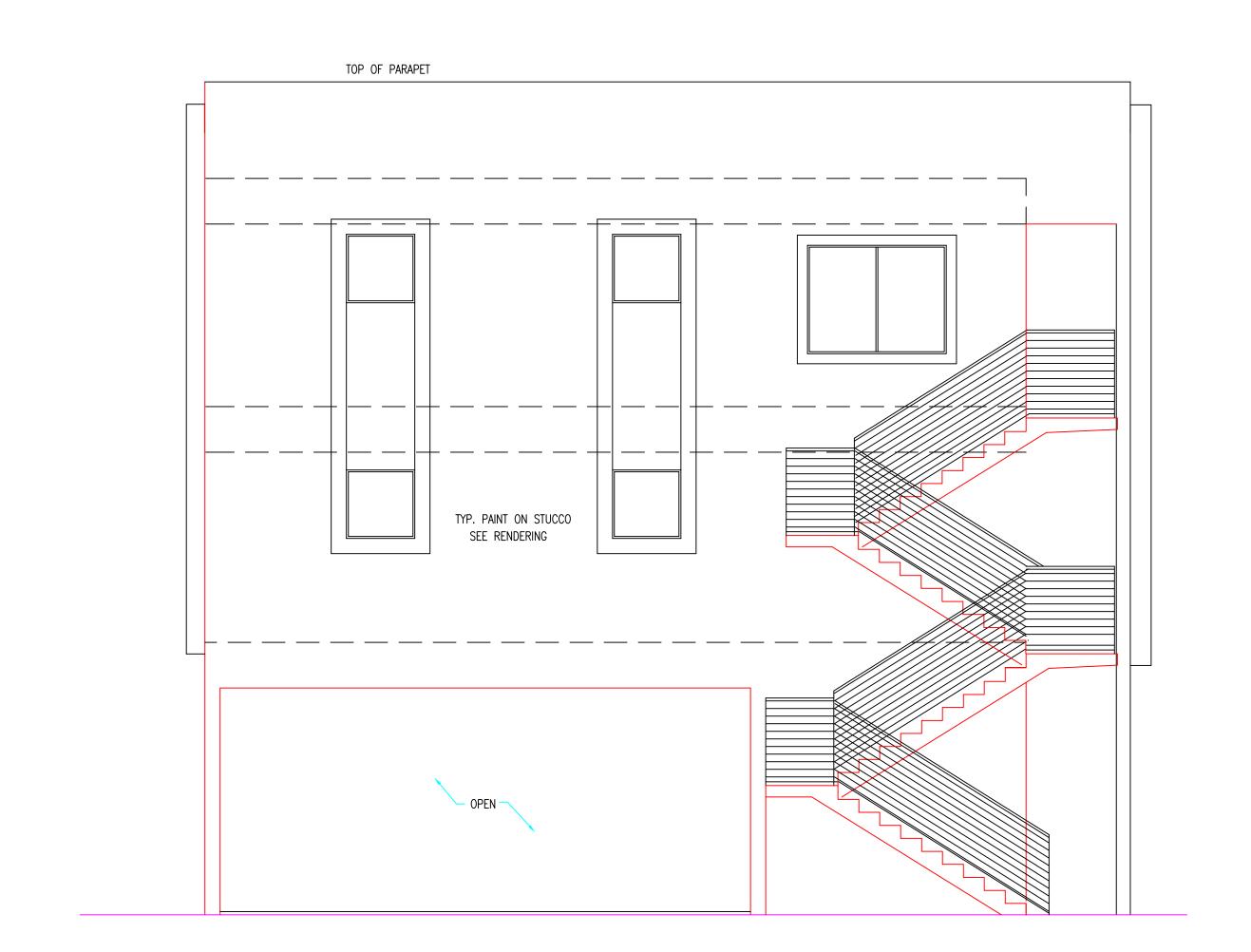
CHECKED

DRAWN

DATE 9-5-2019

COMM. NO. 17-160

2



REAR ELEVATION

SCALE: 3/16"=1'-0" SOUTH

No. Date Revision By SPECIFICATIONS, COMPUTER FILES, FI DATA, NOTES AND ANY OTHER DOCU PREPARED BY THE ARCHITECT AS INSTRUMENTS OF SERVICE SHALL RE THE PROPERTY OF THE ARCHITECT AND NOT TO BE REPRODUCED, COPIED ON ALTERED IN WHOLE OR IN PART. IT IS TO BE USED FOR THE PROJECT AND SI SPECIFICALLY IDENTIFED HERRIN AND SPECIFICALLY IDENTIFED HERRIN ALL CAN COPYRIGHT AND OTHER RESERVEN ALL CAN COPYRIGHT AND OTHER RESERVEN AND SHOUTH OF THE ARCHITECT SHALL RETAIN ALL CAN COPYRIGHT AND SHALL HAVE RECENTED TO THE PROPERTY OF THE ARCHITECT AND SHALL HAVE RECENTED TO THE PROPERTY OF THE ARCHITECT AND SHALL HAVE RECENTED TO THE PROPERTY OF THE ARCHITECT SHALL RETAIN ALL CAN COPYRIGHT AND OTHER RESERVENCE AND SHALL HAVE RECENTED TO THE PROPERTY OF THE ARCHITECT SHALL RETAIN ALL CAN COPYRIGHT AND OTHER RESERVENCES.

12 UNIT APARTMENTS
SITE DESIGN
2200 MADISON STREET
HOLLYWOOD, FLORIDA
CONTACT: JUAN F. WILKES (786) 838-8159
PARI O FERNANDEZ (786) 838-73

(iguel de ()iego A R C H I T E C T P.A. AA-26001641 AR-13378 REET SUITE 107 HOLLYWOOD, FLORIDA 33020 PH. (954) 926-3358

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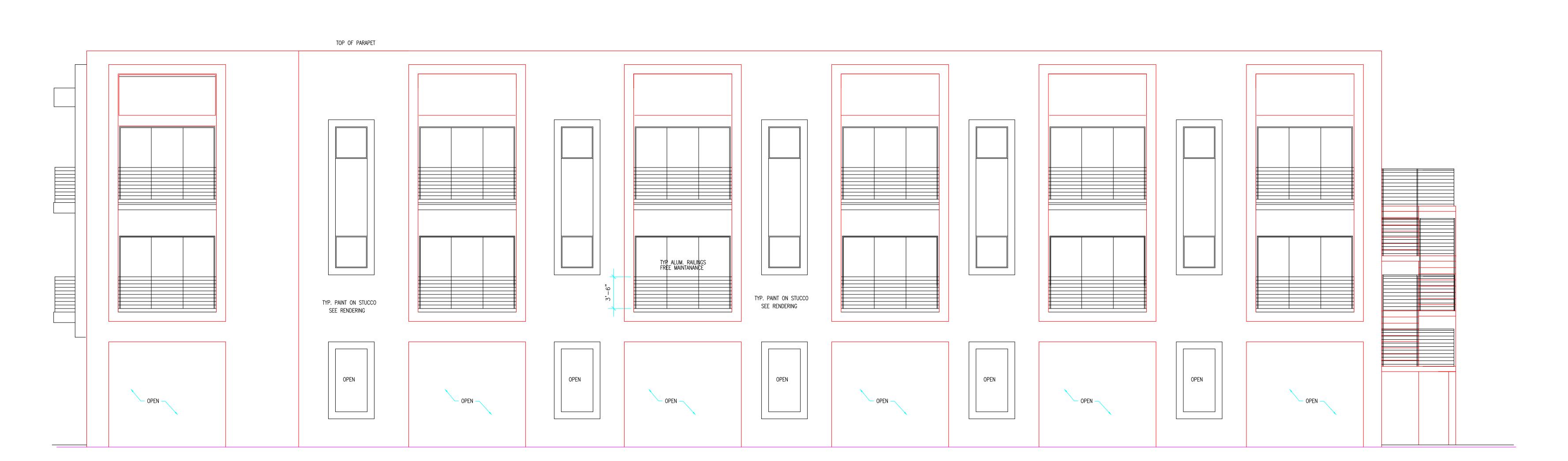
DATE 9-5-2019

COMM. NO. 17-160



LEFT SIDE ELEVATION

SCALE: 1/4"=1'-0" EAST



RIGHT SIDE ELEVATION

SCALE: 1/4"=1'-0"

12 UNIT APARTME
SITE DESIGN
2200 MADISON STREE
HOLLYWOOD, FLORIC
CONTACT: JUAN F. WILKES (786) 8

A R C H I T E C T P.A.

AA-26001641 AR-13378

ER STREET SUITE 107 HOLLYWOOD, FLORIDA 33020

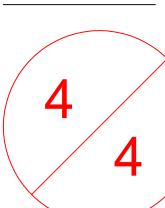
PH. (954) 926-3358

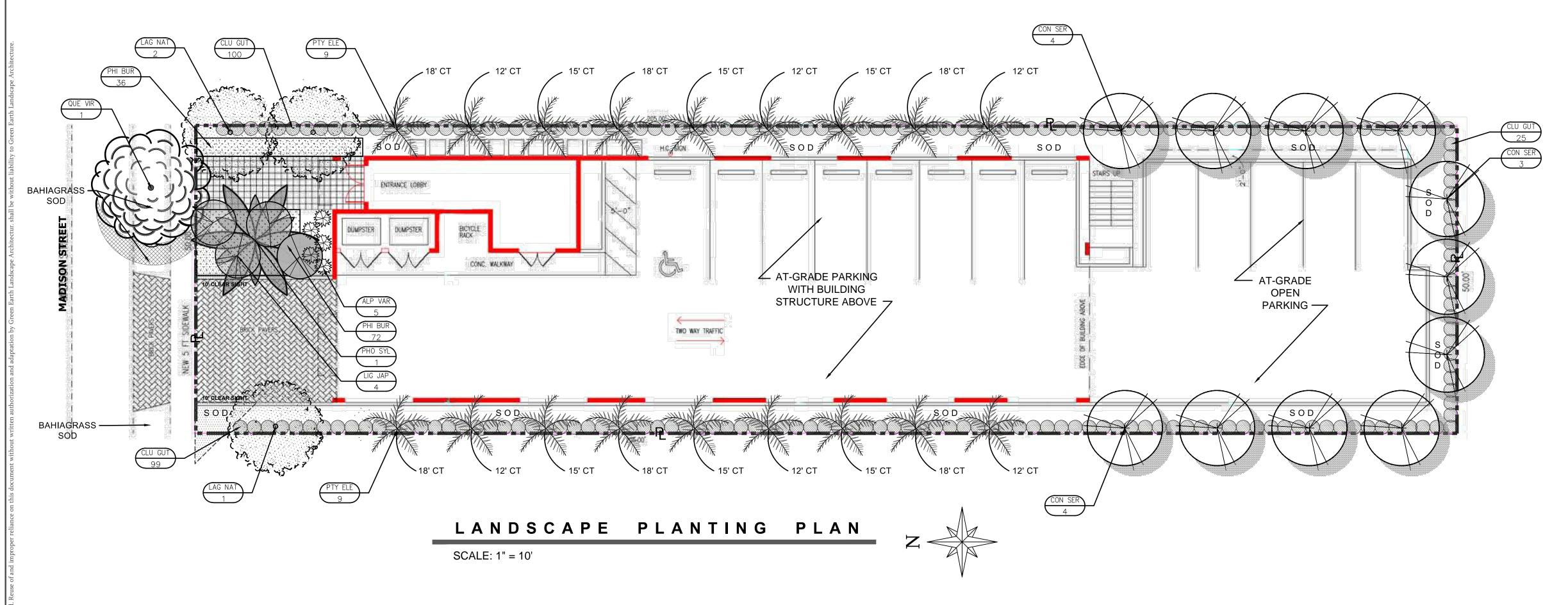
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DRAWN

DATE 9-5-2019

COMM. NO. 17-160





PLANT LIST AND SPECIFICATIONS

	TREE AND PALMS							
	SYMBOL	QUANTITY	LATIN NAME	COMMON NAME	SIZE	SPREAD	DESCRIPTION	
*N	CON SER	11	Conocarpus erectus 'Sericeus'	SILVER BUTTONWOOD	2" DBH/12' HT.	5'	SINGLE STRAIGHT TRUNK STANDARD, HEAVY BRANCHING	
	LAG NAT	3	Lagerstroemia x 'Natchez'	NATCHEZ CRAPE MYRTLE	2" DBH/12' HT.	6'	SINGLE STRAIGHT TRUNK STANDARD, HEAVY BRANCHING	
	PTY ELE	18	Ptychosperma elegans	SOLITAIRE PALM	12'/15'/18' CT	10'	SIZE CT PER PLAN, FULL CROWNS, STRAIGHT EVEN TRUNKS	
*N	QUE VIR	1	Quercus virginiana	LIVE OAK	2" DBH/12' HT.	6'	STRAIGHT TRUNK, HEAVY BRANCHING	
	PHO SYL	1	Phoenix sylvestris	SYLVESTER PALM	8' CLEAR WOOD	6'	FULL CROWN, STRAIGHT THICK EVEN TRUNK, DIAMOND CUT	
*N	CALLOUT	1	Cocolobba uvifera	EXISTING SEAGRAPE	18" COMBINED	25'X25'	EXISTING SEAGRAPE TO REMAIN	
*N	CALLOUT	1	Quercus virginiana	EXISTING LIVE OAK	20" DBH	35'X45'	EXISTING LIVE OAK IN SWALE TO REMAIN	
				SHRUBS AND GROUN	IDCOVER			
	SYMBOL	QUANTITY	LATIN NAME	COMMON NAME	SIZE	SPREAD	DESCRIPTION	
	ALP VAR	5	Alpinia zerumbet 'Variegata'	VARIEGATED SHELL GINGER	30" HT	30"	FULL, SPACE 36" ON CENTER	
*N	CLU GUT	224	Clusia guttifera	LITTLELEAF CLUSIA	24" HT	24"	FULL, SPACE 24" ON CENTER	
	LIG JAP	4	Ligustrum japonicum	LIGUSTRUM	8' HT	72"	PRUNED TO 4' CT WITH 4-5 STRONG LEADERS, SPACE PER PLAN	
	PHI BUR	108	Philodendron 'Burle Marx'	BURLE MARX PHILODENRON	16" HT	16"	FULL, SPACE 18" ON CENTER	

WHERE 'SOD' IS INDICATED SPECIES SHALL BE ST. AUGUSTINE 'FLORATAM' VARIETY AND 'BAHIAGRASS SOD' SHALL BE ARGENTINE VARIETY BAHIA SOD NOTE: ALL SPECIES ARE SUBJECT TO APPROVED ALTERNATIVES DEPENDING ON AVAILABILITY IN THE REQUIRED SIZES AT THE TIME OF INSTALLATION.

TABULAR DATA CODE CHART

REGULATING DOCUMENT: ARTICLE 9 LAND DEVELOPMENT & ZONING REGULATIONS					
ZONING/LAND USE: RM-18					
ARTICLE 9.3 & 9.5 (CROSS-REFERENCE LANDSCAPE MANUAL 2.2 MULTI-FAMILY DISTRICTS)	REQUIRED	PROVIDED			
STREET TREE REQUIREMENTS 1 TREE/50LF STREET FRONTAGE @ 50LF	1 TREES	1 TREE			
OPEN SPACE REQUIREMENTS 1 TREE/1,000 SF OF REQUIRED OPEN SPACE AREA @ 3,095 SF	4 TREES	4 TREES			
AT-GRADE PARKING LOTS (CROSS-REFERENCE LANDSCAPE MANUAL 2.12)	MINIMUM 24" DURABLE LANDSCAPE BUFFER 1 TREE PER LANDSCAPE ISLAND	24" CONTINUOUS HEDGE + PERIMETER TREES 1 TREE PER LANDSCAPE ISLAND			
ARTICLE 9.5.E: NATIVE SPECIES REQUIREMENTS	60% TREES/50% SHRUBS	62% TREES/66% SHRUBS			
ARTICLE 9.9:TREE MITIGATION REQUIREMENTS MITIGATION ON AN INCH-PER-INCH CALIPER BASIS FOR NON-EXEMPT SPECIES @ 57 CALIPER INCHES + 1 PALM	28.5 TREES @ 2" DBH + 1 PALM	29 TREES @ 2" DBH (18 PALMS @ 3:1 = 6 TREES) + 1 PALM			

NOTES & SPECIFICATIONS

- 1. CONTRACTOR TO VISIT SITE AND REVIEW PLANS PRIOR TO SUBMITTING A PROPOSAL TO OWNER. CONTRACTOR SHALL VERIFY SITE AND TREE INFORMATION, AND BRING ANY AND ALL DISCREPANCIES, CONFLICTS, SHORTAGES, OR OTHER SCOPE/QUANTITY/ TIME RELATED ISSUES, INCOMPLETENESS OR CONSISTENCY WITHIN THE PLANS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CLARIFICATION PRIOR TO SUBMITTING A PROPOSAL OR BASING A PROPOSAL ON THE SCOPE OF WORK.
- THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CLARIFICATION PRIOR TO SUBMITTING A PROPOSAL OR BASING A PROPOSAL ON THE SCOPE OF WORK.

 2. THESE PLANS WERE PREPARED BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN AND AS PROVIDED. ALL FINAL PLANS SHALL BE
- COORDINATED WITH FINAL APPROVED SITE PLAN.

 3. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES BEFORE WORK COMMENCES AND SHALL PROTECT ALL UNDERGROUND/ABOVE GROUND UTILITIES
- AND EXISTING CONDITIONS-TO-REMAIN DURING CONSTRUCTION.

 4. SEE TREE PROTECTION DETAIL ON LANDSCAPE DETAILS SHEET FOR TREE PROTECTION TO BE ERECTED BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN FOR TREES AND PALMS TO REMAIN, AND TO REMAIN INTACT AS ERECTED UNTIL
- FINAL COMPLETION OF PROJECT.

 5. IN THE EVENT OF DISPUTE, THE LANDSCAPE ARCHITECT'S INTERPRETATION SHALL
 REFINAL
 - 6. ALL WORK TO BE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND ADJUST IF NECESSARY TO AVOID CONFLICTS OR SAFETY HAZARDS.
- ADJUST IF NECESSARY TO AVOID CONFLICTS OR SAFETY HAZARDS.

 7. ALL WORK TO BE PERFORMED IN A PROFESSIONAL, WORKMANLIKE MANNER AND ONLY DURING THOSE TIMES PERMITTED BY THE CITY OF HOLLYWOOD. PROTECT THE PUBLIC AND GENERAL PASSERSBY AT ALL TIMES AND PROTECT ALL TREES

SPECIFIED TO REMAIN.

- 8. ALL NEW PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER ACCORDING TO "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLICATION BY THE FLORIDA DEPT. OF AGRICULTURE AND CONSUMER SERVICES. ALL TREES OR PLANTS NOT MEETING THIS MINIMUM SPECIFICATION AS DEFINED IN THE PUBLICATION WILL BE
- ALL TREES AND PALMS MUST BE PLANTED SO THE TOP OF THE ROOT BALL, ROOT FLARE, AND FIRST ORDER ROOTS ARE SLIGHTLY ABOVE THE FINAL GRADE (ADVENTITIOUS ROOTS ARE NOT CONSIDERED FIRST ORDER ROOTS).
- 10. ALL SYNTHETIC BURLAP, SYNTHETIC STRING, CORDS OR OTHER NON-BIODRADABLE MATERIALS SHALL BE **COMPLETELY REMOVED IN THEIR ENTIRETY** FROM THE ROOTBALLS BEFORE ANY TREES ARE PLANTED.
- 11. FOR BIODEGRADABLE BURLAP ROOTBALL CONTAINMENT THE TOP PORTION OF BURLAP MUST BE REMOVED FROM THE TOP OF THE ROOTBALLS. THE TOP 1/3RD OF WIRE BASKETS SHALL BE REMOVED, THE BOTTOM 2/3RDS SHALL BE CUT BEFORE THE TREES ARE INSTALLED.
- 12. ALL SYNTHETIC TAPE (I.E., TAGGING TAPE, NURSERY TAPE) SHALL BE REMOVED FROM TRUNKS, BRANCHED, ETC. BEFORE INSPECTION. REMOVE ALL BAMBOO AND METAL STAKES FROM THE TREES.
- 13. TREES SHALL HAVE A MULCH RING WITH A MINIMUM DIAMETER OF 4'. MULCH WILL BE A GRADE B SHREDDED WOOD HARVESTED FROM EXISTING MELALEUCA OR EUCALYPTUS STANDS (STERILIZED TO DESTROY ANY SEEDS) OVER HEAVY WEED BARRIER FABRIC, SECURED IN PLACE USING METAL SOD STAPLES, AND APPROXIMATELY 3" DEPTH WHEN SETTLED. USE COMMERCIAL GRADE BLACK PLASTIC EDGING FOR SHAPE AND CONTAINMENT OF SHRUB & GROUNDCOVER LANDSCAPE PLANTING AREAS, STAKED IN PLACE.
- 14. ALL TREES AND PALMS SHALL BE GUYED WITH PROPER HORTICULTURAL AND ARBORICULTURAL TECHNIQUES. DO NOT USE WIRE, BLACK STRAPPING, OR OTHER SYNTHETIC MATERIAL FOR THE DIRECT STAKING OF TREES. PLEASE USE BIODEGRADABLE MATERIAL FOR STAKING DIRECTLY AROUND TRUNKS SUCH AS SISAL TWINE. NAILING INTO TREES AND PALMS FOR ANY REASON IS PROHIBITED. ALL STAKING MATERIAL SHALL BE REMOVED ONCE TREES ARE ESTABLISHED.
- 15. ALL PERVIOUS LANDSCAPED AREAS SHALL RECEIVE 100% IRRIGATION COVERAGE. AS DEFINED BY CITY OF HOLLYWOOD, SFWMD AND INDUSTRY STANDARDS (BEING 'HEAD-TO-HEAD' ARC THROW WITH 50% OVERLAP), BY MEANS OF AN AUTOMATIC, FULLY PROGRAMMABLE UNDERGROUND IRRIGATION SYSTEM UTILIZING PVC PIPE RAINBIRD 1800 SERIES POP-UP SPRAY TYPE HEADS, REMOTE ELECTRONIC ZONE VALVES, A PROGRAMMABLE AUTOMATIC CONTROLLER WITH INTEGRATED RAIN SENSOR, BACKFLOW PREVENTION DEVICE, SCHEDULE 80 PVC SLEEVES FOR PIPING BENEATH PAVEMENT, ETC.. ADDITIONALLY, ALL NEWLY PLANTED TREES AND PALMS WILL RECEIVE A MINIMUM OF ONE (1) BUBBLER NOZZLE TO WATER THE ROOT SYSTEMS FOR ESTABLISHMENT. ADJUST SET SCREW TO EMIT NO MORE THAN .25 GPM FLOW EACH. THIS PLAN IS NOT COMPLETE WITHOUT IRRIGATION PLAN AND IRRIGATION DETAILS SHEETS L-300 AND L-301, IRRIGATION CONTRACTOR TO INSURE THAT FINAL SYSTEM AND ANY REQUIRED ADJUSTMENTS PROVIDE 100% COVERAGE AND ADDITIONAL ZONES OR HEADS MAY NEED TO BE ADDED TO ACHIEVE THIS. ALL WORK SHALL COMPLY WITH MUNICIPAL AND COUNTY ORDINANCES, SFWMD REGULATIONS AND RESTRICTIONS AND THE STATE
- 16. FOLLOW APPROVED LANDSCAPE PLANS FOR SPECIES, SIZES, LOCATIONS, QUANTITIES, QUALITY, ETC. IF CONTRACTOR IS UNABLE TO LOCATE PLANT MATERIAL AT REQUIRED SPECIFICATIONS CONTACT THE LANDSCAPE ARCHITECT PRIOR TO ANY CHANGES OR SUBSTITUTIONS BEING ASSUMED, ORDERED, OR
- 17. PLANT LIST IS PROVIDED FOR CONVENIENCE ONLY. IF DISCREPANCIES EXIST BETWEEN PLANT TABLE AND PLAN, PLAN DRAWING AND ON-CENTER SPACING SHALL TAKE PRECEDENCE.
- 18. ALL TREES ARE TO HAVE PROTECTIVE LAYER OF BURLAP OR SIMILAR HEAVY WOVEN PROTECTIVE FABRIC AROUND THE TRUNKS WHEN LOADING AND UNLOADING WITH MACHINE EQUIPMENT. NO SCARRING OF TRUNKS WILL BE ACCEPTED AND MATERIALS THAT ARE SCARRED WILL BE REJECTED.
- 19. ALL MATERIALS AND WORKMANSHIP WILL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE FROM FAILURE, DEATH, TERMINAL DECLINE, ETC... THE WARRANTY PERIOD MAY BE EXTENDED BEYOND THAT TIMEFRAME IF, AT THE END OF ONE YEAR, ANY PLANTS ARE NOT IN A THRIVING STATE, INDICATIVE OF
- HEALTHY PLANTS OF EACH SPECIES.

 20. BEGIN WATERING ALL PLANT MATERIALS IMMEDIATELY AFTER INSTALLATION OR RELOCATION. FOR RELOCATIONS SEE CARE AND WATERING SCHEDULE ABOVE. FOR ALL NEW PLANTS, WATER ACCORDING TO SFWMD, BROWARD COUNTY AND CITY OF HOLLYWOOD REGULATIONS FOR NEW LANDSCAPE INSTALLATIONS UP TO 90 DAYS AND BEGIN PHASE II WATER RESTRICTION SCHEDULE FOLLOWING THAT. A SUMMARY IS: LANDSCAPING FROM 0-30 DAYS AFTER INSTALLATION WATERING CAN OCCUR ON ALL DAYS EXCEPT ON FRIDAYS. FROM 30-90 DAYS, WATERING FOR NEW LANDSCAPING CAN OCCUR ON MONDAY, WEDNESDAY, THURSDAY, AND SATURDAY. FOR BOTH ESTABLISHMENT WATERING PERIODS AND FINAL ESTABLISHED PERIOD, NO WATERING SHALL OCCUR BETWEEN 10 A.M. IN THE MORNING AND 4 P.M. IN THE
- AFTERNOON.

 21. ALL WORK WITHIN THESE PLANS TO BE DONE IN A SOUND, WORKMANLIKE MANNER, INDICATIVE OF THE PROFESSIONAL STANDARDS REGULATING EACH DISCIPLINE AND THE PERTINENT DIVISION OF THE CONSTRUCTION SPECIFICATIONS INSTITUTE, THE CITY OF HOLLYWOOD, AND ANY OTHER REGULATING OR GOVERNING AUTHORITY. WORK WILL ONLY OCCUR WITHIN THE DAYS AND HOURS SPECIFIED WITHIN THE CODE OF ORDINANCES AND CONTRACTORS AND SUB-CONTRACTORS SHALL PERFORM WORK IN A SAFE, PROFESSIONAL MANNER WITHOUT UNNECESSARY DISTURBANCE TO THE SURROUNDING COMMUNITY, OTHER ON-SITE
- WORKERS OR PASSERSBY.

 22. ANY DAMAGE TO EXISTING CONDITIONS INCLUDING EXISTING LAWN AREA WILL BE RESTORED TO A CONDITION EQUAL TO OR EXCEEDING THE CONDITION AT TIME OF WORK COMMENCEMENT. EXISTING LAWN REPAIR WILL BE DONE COMPLETE FOR ANY AND ALL DAMAGED AREAS AFFECTED BY WORK. THIS INCLUDES MATCHING OF EXISTING GRASS SPECIES WITH WHOLE, CERTIFIED SOD LAID OVER 2" BLANKET OF HAND-RAKED, FINELY-GRADED TOPSOIL AFTER ANY NECESSARY EXCAVATION REQUIRED SO THAT NEW SOD MATCHES EXISTING OR PREVIOUS SOD IN APPEARANCE, ELEVATION, EXTENT, WITH CLEAN AND TIGHT JOINTS AND CUT IN PROPERLY SO THAT NEW AND EXISTING EDGES MEET SEAMLESSLY. STAGGER JOINTS OF ALL NEW SOD. SPECIES SHALL BE ST. AUGUSTINE 'FLORATAM' VARIETY CERTIFIED TRUE TO NOMENCLATURE BY THE SUPPLIER ON RECEIPT. IF EXISTING
- PLANTING BEDS ARE DAMAGED, RESTORE TO SAME CONDITION WITH SAME MATERIALS.

 23. ANY REFERENCE, MENTION OR INFERENCE OF 'PLANTING SOIL', 'AMENDED SOIL', 'SOIL MIX' OR THE LIKE SHALL MEAN A SPECIFIC SOIL MIX AS FOLLOWS: 50-50 PERCENTAGE-BY-VOLUME RATIO, PRE-MIXED OFF SITE, AND COMPRISED OF 50% CLEAN, SCREENED SILICA SAND, AND 50% PULVERIZED FLORIDA MUCK, ALSO REFERRED TO AS TOPSOIL, FREE FROM ANY WEEDS, NEMATODES, SEEDS, AGGREGATE (OTHER THAN SPECIFIED SAND) OR OTHER DELETERIOUS MATERIALS AND PREPARED SPECIFICALLY FOR USE AS A SOIL AMENDMENT IN LANDSCAPING
- AND PREPARED SPECIFICALLY FOR USE AS A SOIL AMENDMENT IN LANDSCAPING APPLICATIONS. AN AMENDED ORGANIC OF COW MANURE OR ORGANIC PEAT IS ACCEPTABLE UP TO 10% OF THE TOTAL VOLUME OF THE MIX.

 24. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK BASED ON THESE PLANS.
- 25. ALL BEDLINES FOR SHRUBS AND GROUNDCOVER TO HAVE FLOWING ARCS AS SHOWN CREATING AN ATTRACTIVE, ORGANIC AESTHETIC. MULCHED BEDLINE EDGES WITH FLAT OR 'DEAD' AREAS THAT BREAK FROM THE CURVILINEAR NATURE WILL BE REJECTED.
- WILL BE REJECTED.

 26. UNLESS OTHERWISE NOTED, ALL PERVIOUS AREAS NOT COVERED WITH TREES, SHRUBS, OR GROUNDCOVER SHALL BE PLANTED WITH SOD GRASS. ALL SOD SHALL BE WHOLE SOLID SQUARE PIECES, CERTIFIED TO SPECIES AND CULTIVAR, LAID OVER 2" BLANKET OF HAND-RAKED, FINELY-GRADED TOPSOIL AFTER ANY NECESSARY EXCAVATION REQUIRED SO THAT NEW SOD MATCHES EXISTING ELEVATIONS OF CURBS, WALKS AND OTHER SURROUNDING HARDSCAPE PAVEMENT. SOD SHALL BE LAID WITH TIGHT JOINTS, STAGGER JOINTS ONE WAY SO THAT EDGES MEET SEAMLESSLY WITH NO GAPS GREATER THAN ½" IN WIDTH. USE COARSE CONCRETE SAND TO FILL ANY JOINTS. WHERE 'SOD' IS INDICATED SPECIES SHALL BE ST. AUGUSTINE 'FLORATAM' VARIETY AND 'BAHIAGRASS SOD'
- SHALL BE ARGENTINE VARIETY BAHIA SOD.

 27. SPECIES SUBJECT TO AVAILABILITY AT TIME OF INSTALLATION IN THE REQUIRED.

2 Unit Apartments 2200 Madison St. Hollywood, FL 33020

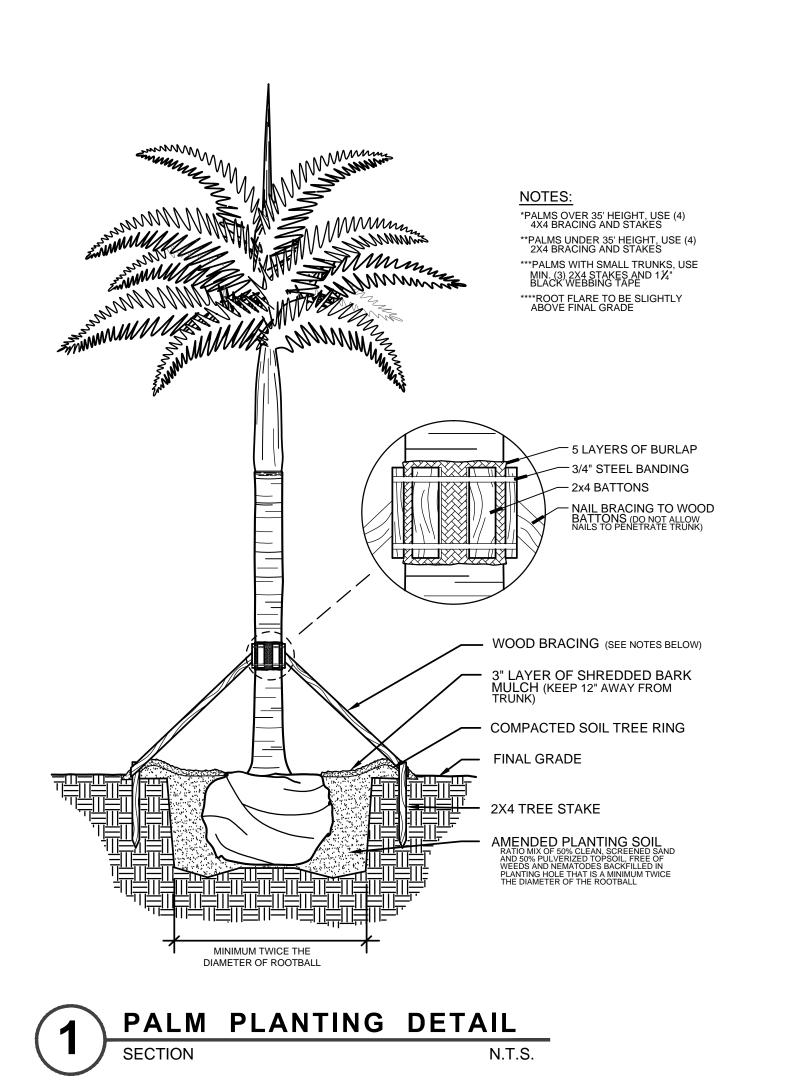
GREEN EARTI

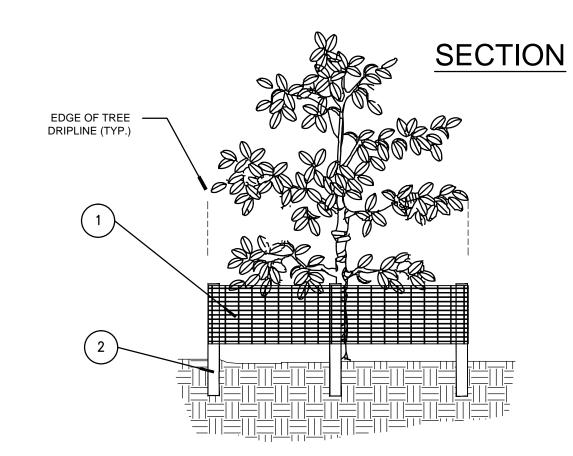


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T A J





CORNER

CONNECTION

CONNECTION

1 ORANGE PLASTIC UTILITY

BARRIER FABRIC (2) 8' TALL METAL "T" POSTS OR 2" X 4" X 8' PRESSURE TREATED WOOD POSTS A MINIMUM OF 30" BURIAL BELOW GRADE

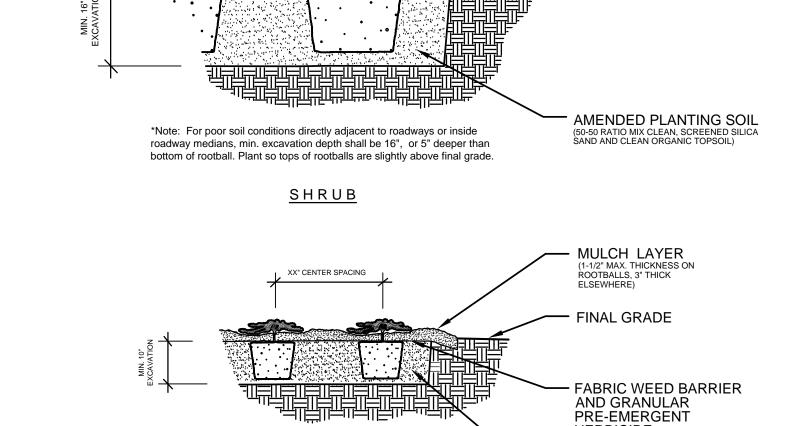
INSTALLATION NOTES: A. A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE

B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 THE HEIGHT OF THE POST BUT NEVER LESS THAN 30" DEPTH

C. SPACE POSTS EVERY 6-8' APART

D. SECURE FENCING TO POST WITH NYLON CABLE TIES WOOD STRIPS MAY ALSO BE **USED TO PROVIDE** ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH PLASTIC FENCE FABRIC AS WIRE MAY WEAR THROUGH OVER TIME



NOTE: Keep a minimum 12" spacing between groundcover centers and edge of pavement/curbs

GROUNDCOVER

XX" CENTER SPACING

ROTATE SHRUBS PRIOR TO BACKFILLING SO BEST FACE IS FRONTING PRIMARY

- AGGREGATE MULCH LAYER USE ORNAMENTAL WHITE MARBLE

CHIP AGGREGATE MULCH TO MATCH EXISTING OVER 6 MIL PLASTIC WEED BARRIER FABRIC SECURED IN PLACE

FINAL GRADE

HERBICIDE

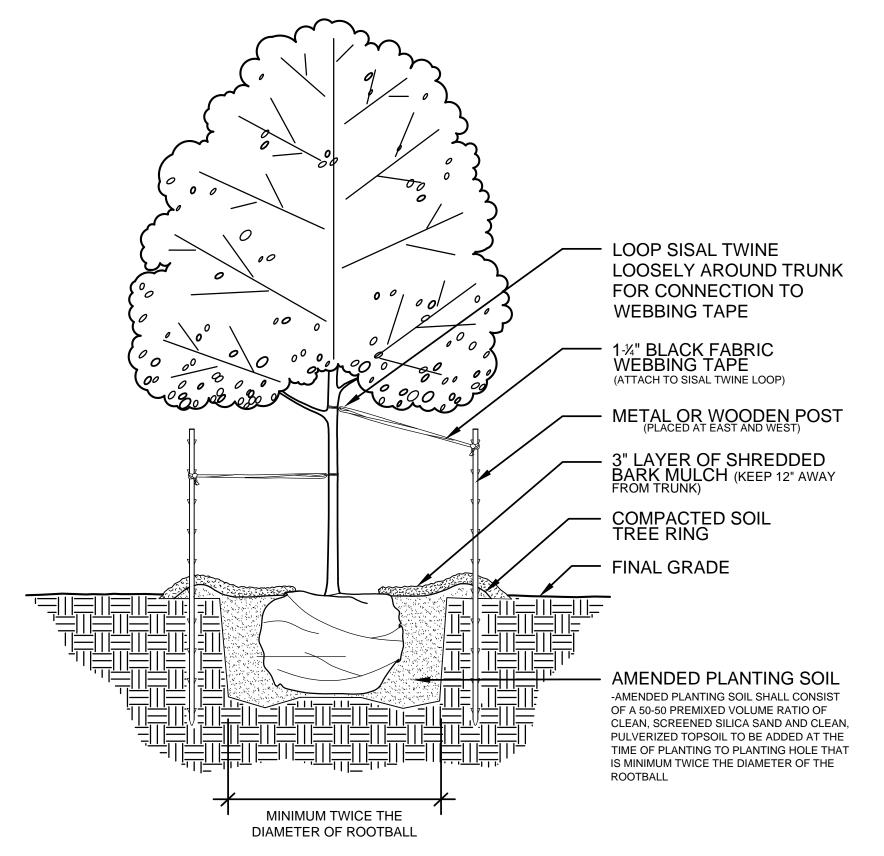
— AMENDED PLANTING SOIL
(50-50 RATIO MIX CLEAN, SCREENED SILICA
SAND AND CLEAN ORGANIC TOPSOIL)

DIRECTION OF VIEWING

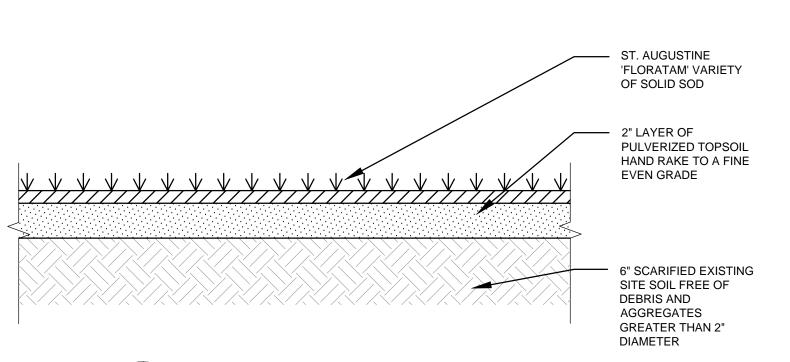
SHRUB/GROUNDCOVER PLANTING DETAIL N.T.S.

POOR DRAINAGE DETAIL N.T.S.

6'-8"







SOD PLANTING DETAIL
SECTION N.T.S.

2019 NOTED June

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ANDSC.

SHEET NUMBER

L-201

IRRIGATION PLAN

SCALE: 1" = 10'

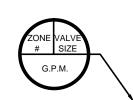
IRRIGATION SYMBOL LEGEND



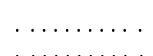
RAINBIRD PGB REMOTE ELECTRIC ZONE VALVE

1-1/2" SCHEDULE 40 PVC MAIN LINE PIPE

SCHEDULE 200 LATERAL (CIRCUIT)



IRRIGATION ZONE CALLOUT



SCHEDULE 80 PVC SLEEVE PIPE (MINIMUM TWICE THE SIZE OF PIPE BEING SLEEVED)



- 1-1/2 HP PUMP STATION INCLUDING: • 1-1/2 HP CENTRIFUGAL SINGLE PHASE 240V SELF
- PRIMING PUMP • RAINBIRD ESP-RZXe 4-STATION PROGRAMMABLE
- CONTROLLER WITH INTEGRAL RAIN SENSOR SHUT-OFF DEVICE (CLEAR OF OVERHEAD OBSTRUCTIONS)
- ELECTRICAL CIRCUIT OVERLOAD PROTECTION 3,000 PSI 4" CONCRETE PAD WITH SHOCK ABSORBING

PUMP MOUNTS

NOTE: INSTALL ONE BUBBLER NOZZLE FOR EACH NEW TREE ON FLEXIBLE PIPING. ADJUST SET SCREW TO EMIT NO MORE THAN .25 GPM.

SPRINKLER AND NOZZLE SCHEDULE

SYMBOL	DESCRIPTION	G.P.M.	THROW
0 8Q	RAINBIRD 1806 PRS OR 1812 PRS (SEE CRITERIA IN NOTES) WITH 8Q MPR SPRAY NOZZLE	.26	8'
⊘ 8H	RAINBIRD 1806 PRS OR 1812 PRS (SEE CRITERIA IN NOTES) WITH 8H MPR SPRAY NOZZLE	.52	8'
₩ 8VAN	RAINBIRD 1806 PRS OR 1812 PRS WITH 8 VARIABLE ARC MPR SPRAY NOZZLE	VARIES	8'
1 0Q	RAINBIRD 1806 PRS OR 1812 PRS (SEE CRITERIA IN NOTES) WITH 10Q MPR SPRAY NOZZLE	.39	10'
1 2Q	RAINBIRD 1806 PRS OR 1812 PRS (SEE CRITERIA IN NOTES) WITH 12Q MPR SPRAY NOZZLE	.65	12'
1 2H	RAINBIRD 1806 PRS OR 1812 PRS (SEE CRITERIA IN NOTES) WITH 12H MPR SPRAY NOZZLE	1.30	12'
← 15LCS	RAINBIRD 1806 PRS OR 1812 PRS (SEE CRITERIA IN NOTES) WITH 15LCS MPR SPRAY NOZZLE	.49	4X15'
□ 15RCS	RAINBIRD 1806 PRS OR 1812 PRS (SEE CRITERIA IN NOTES) WITH 15RCS MPR SPRAY NOZZLE	.49	4X15'
15SST	RAINBIRD 1806 PRS OR 1812 PRS (SEE CRITERIA IN NOTES) WITH 15SST MPR SPRAY NOZZLE	1.21	4X30'

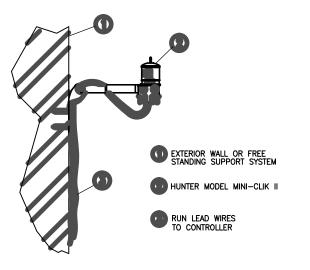
IRRIGATION NOTES

- 1. CONTRACTOR TO VISIT SITE AND REVIEW PLANS PRIOR TO SUBMITTING A PROPOSAL TO OWNER, AND SHALL BRING ANY DISCREPANCIES WITHIN THE PLANS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL.
- 2. THESE PLANS WERE PREPARED BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN.
- 3. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES BEFORE WORK COMMENCES AND SHALL PROTECT ALL UNDERGROUND/ABOVE GROUND UTILITIES AND EXISTING CONDITIONS-TO-REMAIN DURING CONSTRUCTION. ALL TREES TO REMAIN SHALL RECEIVE A FENCE BARRIER PROTECTION DURING CONSTRUCTION. SEE LANDSCAPE DETAILS FOR MORE INFORMATION ON TREE PROTECTION.
- 4. THIS PLAN NOT COMPLETE WITHOUT ALL LANDSCAPE SHEETS. 5. IRRIGATION SYSTEM WILL BE A NEW 1-1/2 HP PUMP CENTRIFUGAL PUMP WITH ELECTRONIC CONTROL VALVES, POP-UP SPRINKLER SPRAY HEADS

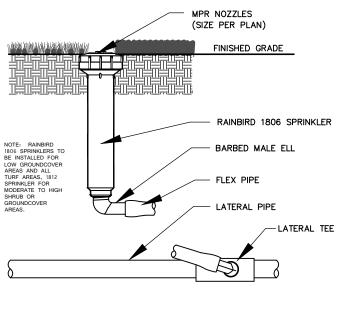
AND AN AUTOMATIC PROGRAMMABLE TIMER WITH RAIN SENSOR

- SHUT-OFF DEVICE. 6. IRRIGATION CONTRACTOR TO COORDINATE WITH MEP ENGINEER AND GENERAL CONTRACTOR TO COORDINATE POWER NEEDS FOR 220V PUMP STATION AND CONTROLLER. THIS MUST BE DONE BEFORE PROJECT CONSTRUCTION BEGINS SO PROPER CALCULATIONS CAN BE DETERMINED AND PROPER INFRASTRUCTURE FOR IRRIGATION AND ELECTRICAL REQUIREMENTS ARE PROVIDED BEFORE PAVING OCCURS. CONTROLLER LOCATION SHOWN IS RECOMMENDED LOCATION ONLY. FINAL DETERMINATION TO BE BY OWNER OR OWNER'S REPRESENTATIVE
- FOR CONVENIENCE, EASE OF MAINTENANCE AND ACCESS. 7. THE SCOPE OF WORK INTENDED WHEN BIDDING ON THESE IRRIGATION PLANS IS TO PROVIDE A COMPLETE, COMPLIANT, SAFE, FULLY-OPERATIONAL, INSTALLED IRRIGATION SYSTEM ACCORDING TO THE DESIGNED IRRIGATION SYSTEM HEREIN. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL COMPONENTS, APPROVALS, AND WORKMANSHIP TO MAKE THE SYSTEM FUNCTION PROPERLY AND PROVIDE 100% (HEAD-TO-HEAD) COVERAGE OF ALL PERVIOUS AREAS WITHIN THE SCOPE OF WORK.
- 8. THE IRRIGATION CONTRACTOR SHALL VISIT THE SITE PRIOR TO PLACING A BID AND BECOME FAMILIAR WITH EXISTING CONDITIONS. AFTER REVIEWING THE PLANS AND VISITING THE SITE. CONTRACTOR SHALL BRING ALL QUESTIONS OR POTENTIAL CONFLICTS TO THE WRITTEN ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PLACING A BID.
- 9. ALL SLEEVING SHALL BE SCHEDULE 80 PVC TO SIZE INDICATED ON PLAN, OR IF NOT INDICATED, A MIN. OF 2 PIPE SIZES LARGER THAN THE SUPPLY LINE(S) CONTAINED. ALL SLEEVES SHALL BE INSTALLED A MIN. OF 12" BELOW FINISHED GRADE OF PAVEMENT OR AS REQUIRED BY CODE. ALL PIPE AND CONTROL WIRING SHALL BE INSTALLED IN SLEEVES WHEN BENEATH PAVEMENT.
- 10. ALL AUTOMATIC RAINBIRD VALVES SHALL BE INSTALLED IN A RECTANGULAR FIBERGLASS BOX AND SHALL BE ARRANGED FOR EASY ADJUSTMENT AND ACCESS. THE FLOW ADJUSTMENT FEATURE OF EACH VALVE SHALL BE UTILIZED TO BALANCE OPERATING PRESSURES THROUGHOUT THE SYSTEM. VALVE BOXES SHALL BE INSTALLED FLUSH WITH GRADE AND SHALL INSURE PERCOLATION THROUGH THE BOX.
- 11. WATERING TIME PER STATION WILL BE DETERMINED IN THE FIELD AND PER LOCAL REQUIREMENTS OR RESTRICTIONS. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PRECIPITATION RATES OF SPRINKLERS SPECIFIED.
- 12. IRRIGATION PLAN IS SCHEMATIC. IRRIGATION CONTRACTOR TO ADJUST TO FIELD CONDITIONS AND INACCURACIES THAT ARE INHERENT WITH DRAWINGS AT THIS SCALE. IRRIGATION CONTRACTOR TO CONTACT LANDSCAPE ARCHITECT FOR ANY SUBSTANTIAL CHANGES THAT WOULD NOT CONFORM TO THE INTENT OF THE IRRIGATION PLANS. NO SUBSTITUTIONS IN MANUFACTURER MATERIALS WILL BE ACCEPTED UNLESS ACCEPTED IN WRITING BY THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO ORDERING, PLANNING, OR INSTALLATION.
- 13. ALL MAIN AND LATERAL PIPING RUNS TO HAVE SOLVENT WELD JOINTS. 14. CONTROLLER SHALL BE RAINBIRD ESP-RZXe 4-STATION CONTROLLER
- WITH INTEGRATED RAIN SENSOR SHUTOFF. 15. PLAN WAS DESIGNED BASED ON ASSUMPTION OF AT LEAST 30 PSI TO END OF ZONES INCLUDING PRESSURE LOSS FROM PIPE RUN LENGTHS,
- TURNS, ZONE VALVES, FITTINGS AND ELEVATION CHANGES. 16. ALL ZONE VALVE WIRING TO BE DIRECT BURIAL TYPE AS RECOMMENDED BY ZONE VALVE MANUFACTURER.
- 17. INSTALL A MINIMUM OF ONE (1) BUBBLER NOZZLE AT EACH TREE OR PALM ROOTBALL SET AT A RATE OF .25 GPM. BUBBLER NOZZLES ARE NOT SHOWN ON THE PLAN FOR GRAPHIC CLARITY OF OTHER COMPONENTS.

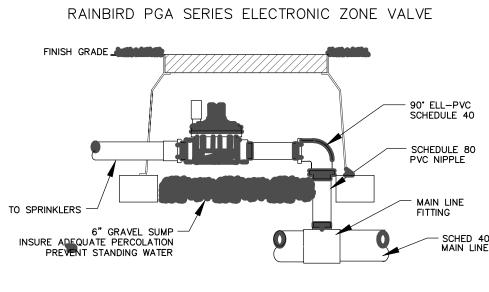
DETAILS IRRIGATION N.T.S.



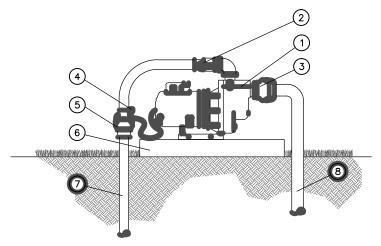
NOTE: MOUNT SENSOR ON SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY RAIN SENSOR DETAIL



SPRINKLER HEAD DETAIL



ZONE VALVE DETAIL



FLO-TEC (OR EQUAL) FP5172 ELECTRIC
 CENTRIFUGAL SELF-PRIMING, 1-1/2 HP SINGLE
 PHASE CENTRIFUGAL IRRIGATION PUMP

2) QUICK DISCONNECTING COUPLING

(3) 1-1/2" PVC ADAPTER

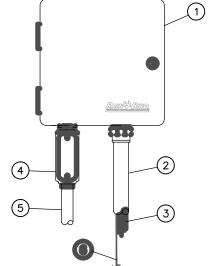
4) 230 VOLT MAIN POWER PLUG WITH QUICK DISCONNECTING PIGGY-TAIL CORD

(5) QUICK DISCONNECTING COUPLING

(6) 4" FIBER REINFORCED CONCRETE PAD 7) 1-1/2" DISCHARGE LINE

(8) 2" SUCTION LINE

CENTRIFUGAL PUMP DETAIL



1) RAINBIRD ESP-RZXe 4-STATION CONTROLLER (OR EQUAL) OUTDOOR WALL MOUNT

2) 1.5-INCH PVC SCH 40 CONDUIT AND

(3) WIRES TO REMOTE CONTROL VALVES

(4) JUNCTION BOX

(5) 1-INCH PVC SCH 40 CONDUIT AND FITTINGS TO POWER SUPPLY

6 BARE COPPER WIRE (#10 AWG MIN.): CONNECT TO GROUNDING BUSS IN CONTROLLER CABINET AND ROUTE TO GROUND ROD. PATH TO GROUND ROD SHOULD BE AS STRAIGHT AS POSSIBLE.

PROGRAMMABLE CONTROLLER DETAIL

L-300

Apaı. Madison S Jnit 2200

en

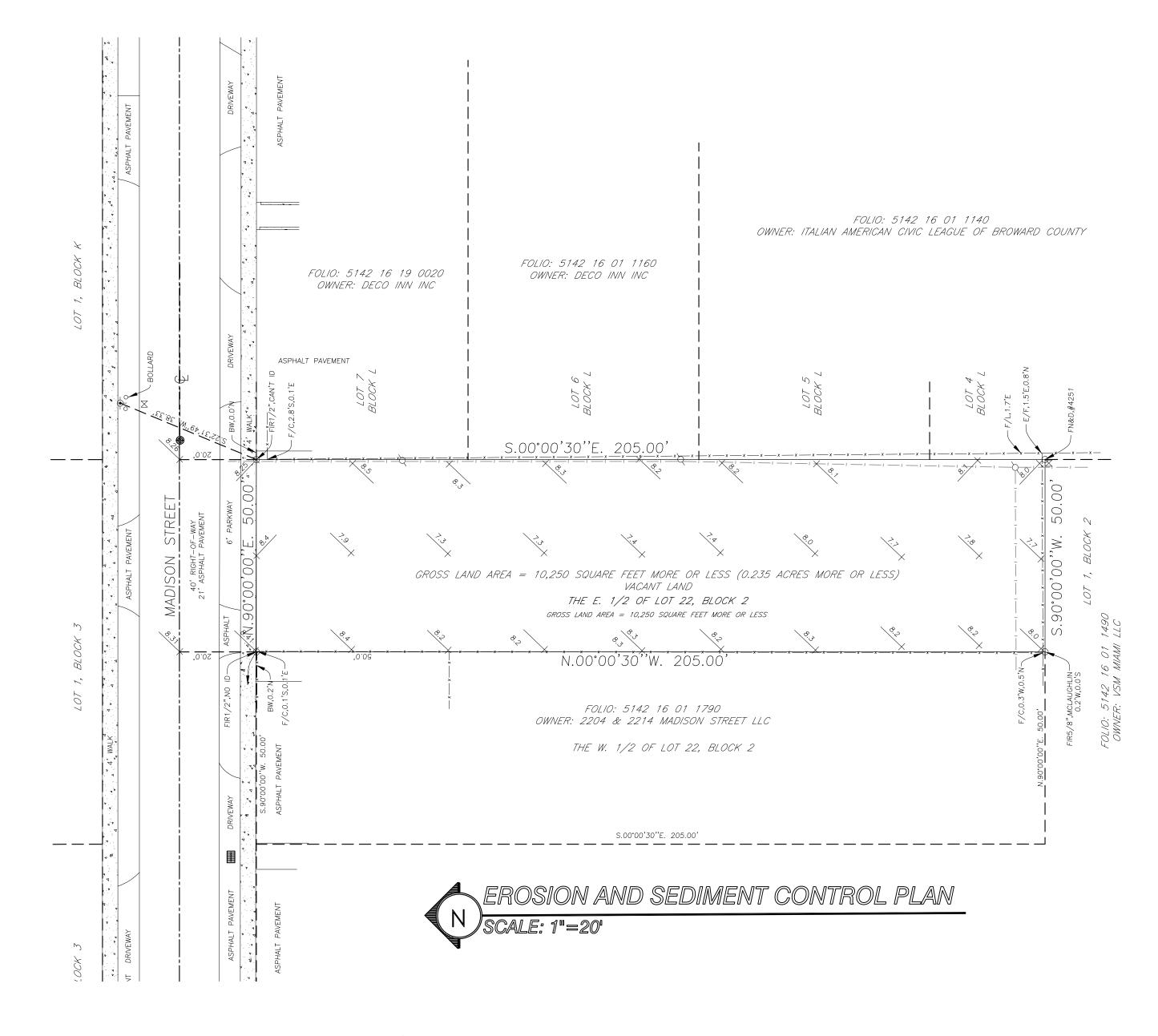
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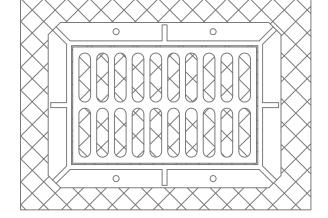
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EROSION AND SEDIMENT CONTROL NOTES

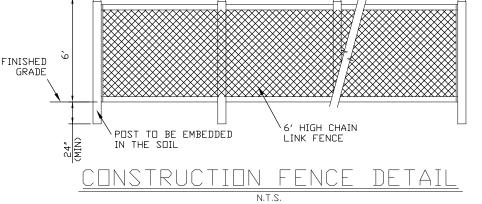
- 1. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND APPLICABLE WATER MANAGEMENT DISTRICT PERMIT(S) FOR THIS PROJECT.
- 2. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWERS MANUAL" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER).
- 3. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THTS PROJECT THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- 4. ALL EXCAVATIONS AND EARTHWORK SHALL BE DONE IN A MANNER TO MINIMIZE WATER TURBIDITY AND POLLUTION. DISCHARGE SHALL BE CONTROLLED AND REROUTED THROUGH FILTERS, SILTATION DIAPERS AND SUMPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION, CORRECTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION IN ACCORDANCE WITH CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE.
- 5. THE CONTRACTOR SHALL PAY FOR ANY WATER QUALITY CONTROL VIOLATIONS FROM ANY AGENCY THAT RESULTS IN FINES BEING ASSESSED TO THE OWNER BECAUSE OF THE CONTRACTOR'S FAILURE TO ELIMINATE TURBID RUNOFF FROM LEAVING THE SITE AND RAISING BACKGROUND LEVELS ABOVE EXISTING BACKGROUND LEVEL.
- 6. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABLIZED.
- 7. ADDITIONAL PROTECTION ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DO TO UNFORSEEN CONDITIONS OR ACCIDENTS.
- 8. SILT FENCES SHALL BE USED ALONG THE PROPERTY LINES TO MINIMIZE OFFSITE SILTATION MITGRATION.
- 9. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEASE DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 10. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY. THE FABRIC SHALL BE REPLACED PROMPTLY.
- 11. FILER FABRIC SHALL BE INSTALL UNDER INLET GRATES AND EXTEND A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. IF MORE THAN ONE STRIP OF FABRIC IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED 1 FOOT.
- 12. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL AND AS NEEDED.
- 13. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- 14. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE APPLICABLE WATER MANAGEMENT DISTRICT.
- 15. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMAMENT VEGETATIVE COVER IS ESTABLISHED.
- 16. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- 17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER BARRIER ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFROM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- 18. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- 19. FLOATING TURBIDITY BARRIERS WILL BE PLACED OFF SET FROM THE SEAWALL ADJACENT TO THE PROPERTY. IF SEAGRASSES ARE PRESENT BARRIERS WILL NOT BE PLACED OVER THEM. THE FLOATING TURBIDITY BARRIERS SHALL ALSO BE INSTALLED IN A MANNER TO PREVENT MANATEE ENTANGLEMENT.
- 20. ALL DEATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION AND SHALL BE REMOVED WHEN AREAS HAVE BEEN STABILIZED.

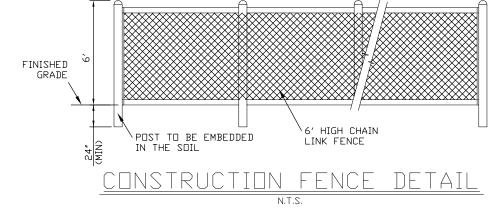


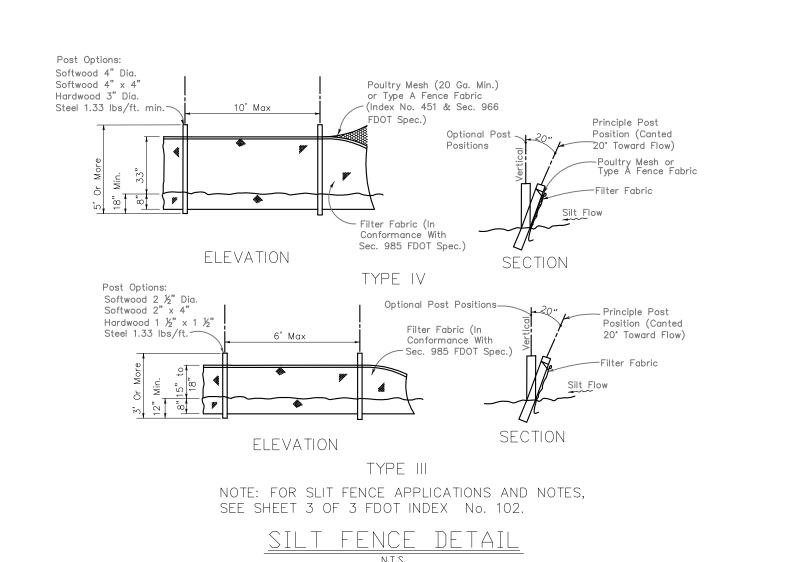


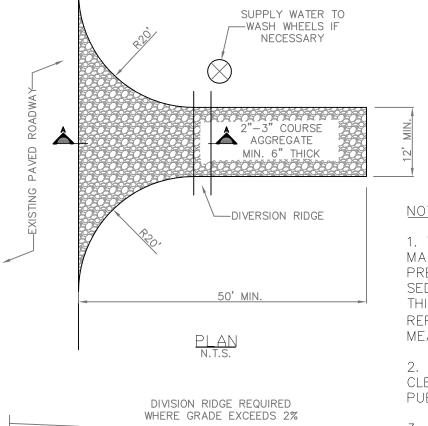
INLET PROTECTION

NOTE: INSTALL FILTER FABRIC **UNDER ALL GRATES TO PREVENT** SILT AND CONSTRUCTION DEBRIS FROM ENTERING THE SYSTEM.









PARAGRAPH TO THE PARAGR

ROADWAY

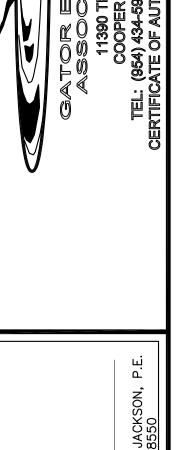
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES ÚSED TO TRAP SEDIMENT.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

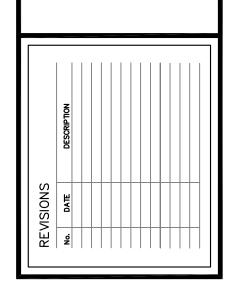
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

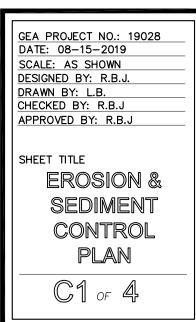
TEMPORARY GRAVEL CONTRUCTION ENTRANCE

-FILTER FABRIC



ONITAPP ON MADISC HOLLYW 12





LEGAL DESCRIPTION

THE EAST 1/2 OF LOT 22 BLOCK-2, HOLLYWOOD LITTLE RANCHES AMENDED, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 1, AT PAGE 26, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

GENERAL NOTES:

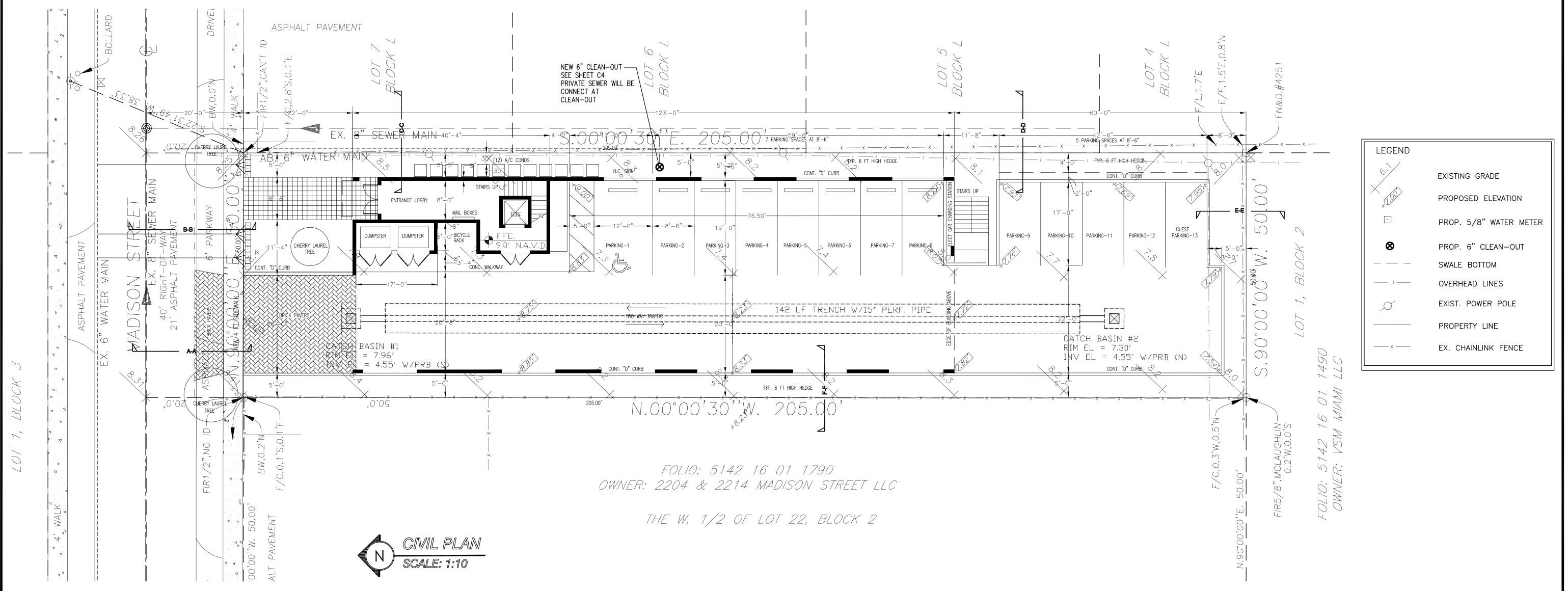
- 1. BASE SURVEY WAS PROVIDED BY ATLANTIC COAST SURVEYING, INC.
- 2. ELEVATIONS SHOWN REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D.).
- 3. HORIZONTAL AND VERTICAL CONTROL SHALL BE PROVIDED BY THE CONTRACTOR'S SURVEYOR. LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. IT IS THE INTENT OF THESE DRAWINGS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER REPRESENTATIVE.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND UTILITIES VERIFIED AND LOCATED PRIOR TO THE START OF CONSTRUCTION. ALL TRENCH EXCAVATION SHALL PROCEED WITH EXTREME CAUTION. IN THE EVENT THAT EXISTING UTILITIES ARE DAMAGED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE SUCH DAMAGES.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ANY DISTURBED EXISTING MANHOLES, VALVE BOXES, BLOW-OFF RISERS OR ANY OTHER POINT OF ACCESSIBILITY TO UTILITIES, AND TO MATCH ASPHALT GRADES, AS REQUIRED, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- 7. TO AVOID MISUNDERSTANDING AND TO INSURE COMPLIANCE WITH SPECIFICATIONS, BEFORE PURCHASING MATERIALS OR EQUIPMENT FOR THIS WORK, THE CONTRACTOR SHALL FURNISH A COPY OF SHOP DRAWINGS OR ILLUSTRATION SHEETS FOR APPROVAL BY THE ENGINEER. THE APPROVAL OF SHOP OR WORKING DRAWINGS BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRONEOUS OR INCONSISTENT DIMENSIONS, NOTATIONS, OMISSIONS OR OTHER ERRORS, OR FOR THE PROPER FUNCTIONING OF THE COMPLETE INSTALLATION.
- 8. THE LOCATION OF EXISTING FACILITIES WERE PLOTTED FROM AVAILABLE RECORDS.
 THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO
 CONSTRUCTION.
- 9. ALL SIDEWALKS AND PATIOS SHALL BE SLOPED AWAY FROM HOUSE.
- 10. MAXIMUN GRASS SLOPES SHALL NOT EXCEED 4:1.
- 11. CONTRACTOR SHALL COORDINATE THIS PLAN WITH THE PLUMBING AND LANDSCAPE PLANS.

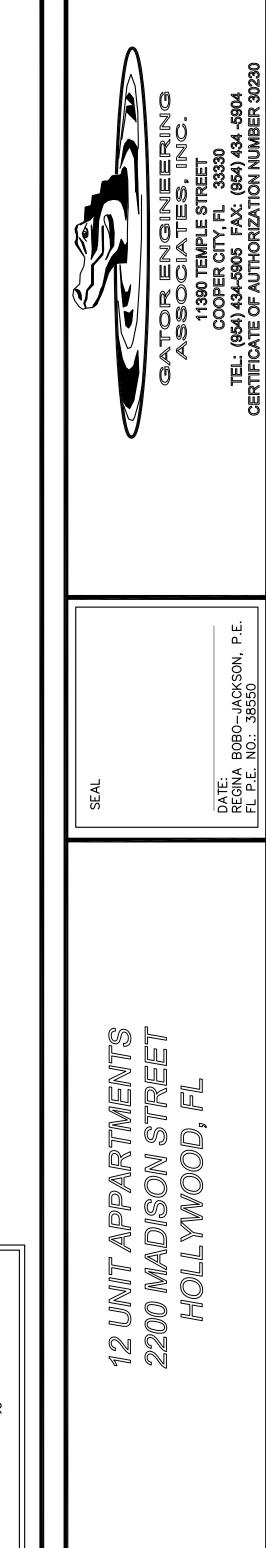
SPECIFIC NOTES:

- 1. AT ALL TIMES DURING CONSTRUCTION, ALL STORMWATER MUST REMAIN ONSITE. NO DISCHARGE IS ALLOWED INTO THE PUBLIC RIGHT OF WAY.
- 2. SIDEWALKS, PAVEMENT, SWALES AND DRAINAGE SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND DETAILS.
- 3. THESE PLANS SHALL BE COORDINATED WITH THE LANDSCAPE PLANS. NO TREE SHALL BE INSTALL SUCH THAT THE SWALE BOTTOM ELEVATIONS AND VOLUMES ARE
- 4. CONTRACTOR SHALL CHECK FOR THE PRESENCE OF A SEWER LATERAL TO THE PROPERTY, IF ONE IS FOUND ITS INTERGITY SHALL BE EVALUATED. IF NONE IS FOUND A NEW LATERAL SHALL BE INSTALLED, SEE DETAIL SHEET C4. COORDINATE ALL NEW WORK WITH THE UTILITIES DEPARTMENT.
- 5. BE ADVISED THAT ANY ROAD CUTS FOR UTLITIES WITHIN THE CITY RIGHT OF WAY SHALL BE RESTORED TO FULL LANE WIDTH, AND PROVIDE FINAL RESURFACE OF 25—FT. IN EACH DIRECTION OF CUT, THIS APPLIES TO THE PROPOSED ROAD CUTS FOR THE PORPOSED WATER SERVICE LINES.
- 6. PROVIDE 5 FEET MINIMUM SEPARATION TO ANY EXISTING OR PROPOSED TREE. COORDINATE WITH LANDSCAPING PLAN.

SITE CALCULATIONS:

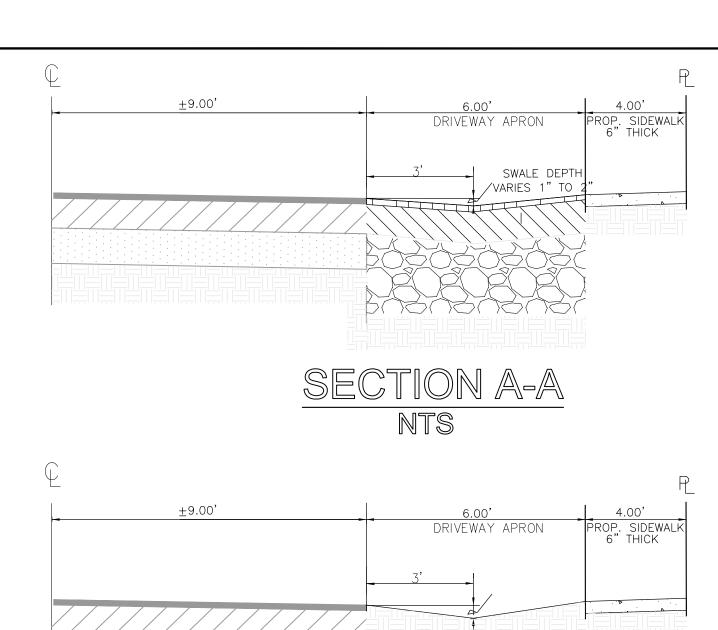
BUILDING FOOTPRINT	425 SQ FT	4.14 %
PARKING AREA	6,170 SQ FT	60.19 %
WALKWAYS	325 SQ FT	3.17 %
WALKWAYS	235 SQ FT	2.29 %
GREEN AREA	3,095 SQ FT	30.19 %
TOTAL AREA	10,250 SQ FT	100.00 %
TOTAL PERVIOUS AREA	3,095 SQ FT	30.19 %
	7 155 SO ET	69.81 %
TOTAL IMPERVIOUS AREA	7,155 SQ FT	09.01 %



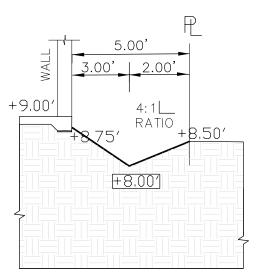


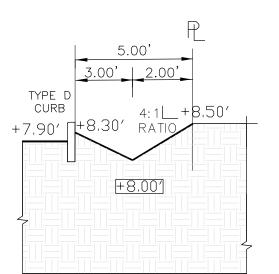
REVISIONS
No. DATE DESCRIPTION

GEA PROJECT NO.: 19028
DATE: 08-15-2019
SCALE: AS SHOWN
DESIGNED BY: R.B.J.
DRAWN BY: L.B.
CHECKED BY: R.B.J
APPROVED BY: R.B.J
SHEET TITLE

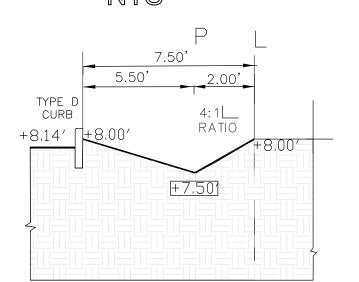


NTS

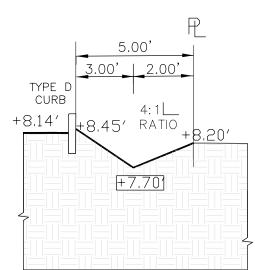




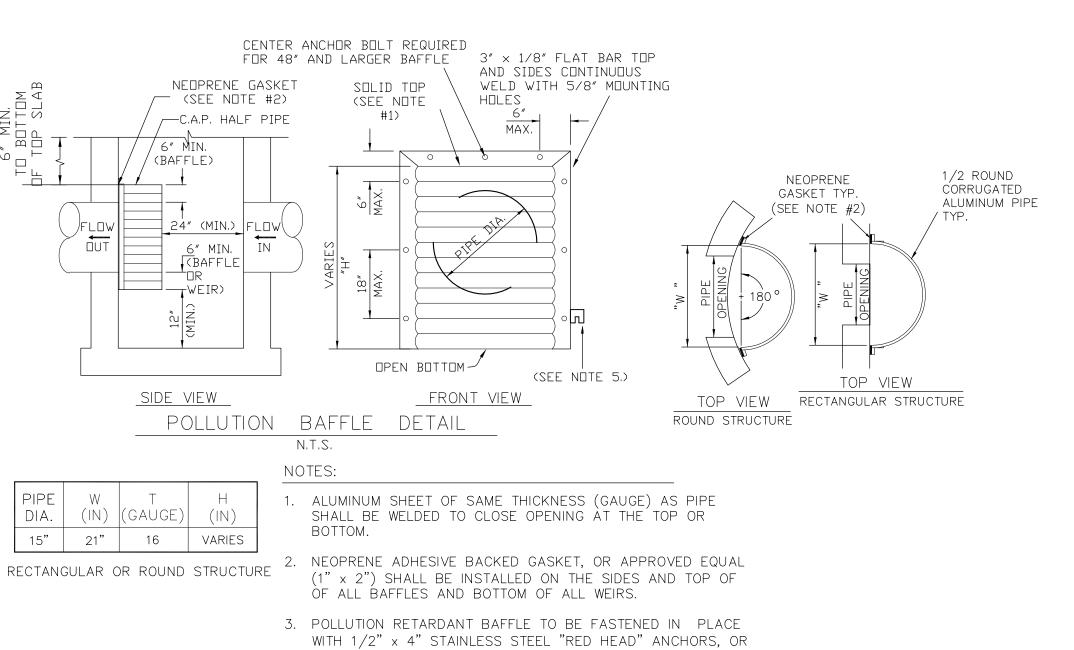
SECTION D-D NTS



SECTION E-E



SECTION F-F



APPROVED EQUAL. ALL MOUNTING HARDWARE TO BE STAINLESS STEEL.

4. FIBERGLASS BAFFLES SHALL NOT BE ALLOWED. 5. BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH

LENGTH OF

LONGITUDE SECTION

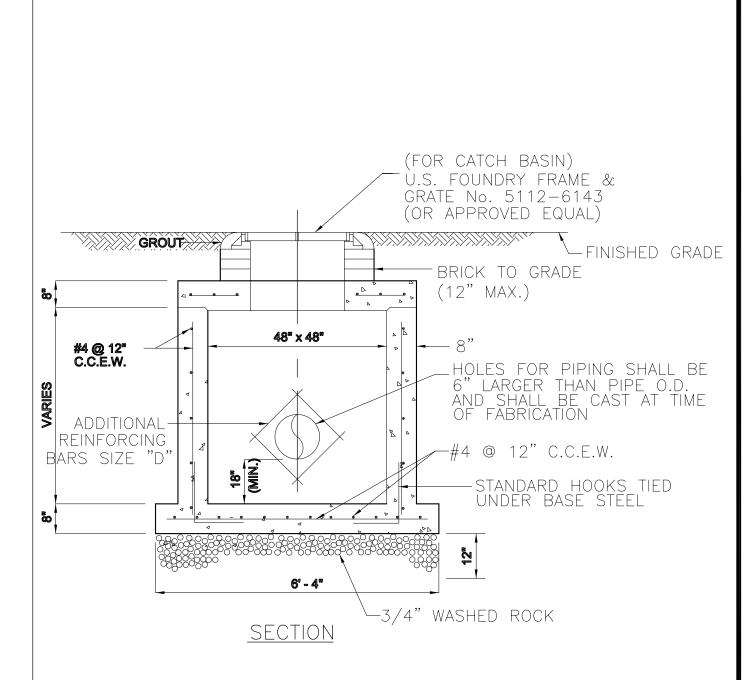
SO

6. PIPE CORRUGATION SHALL BE ANNULAR.

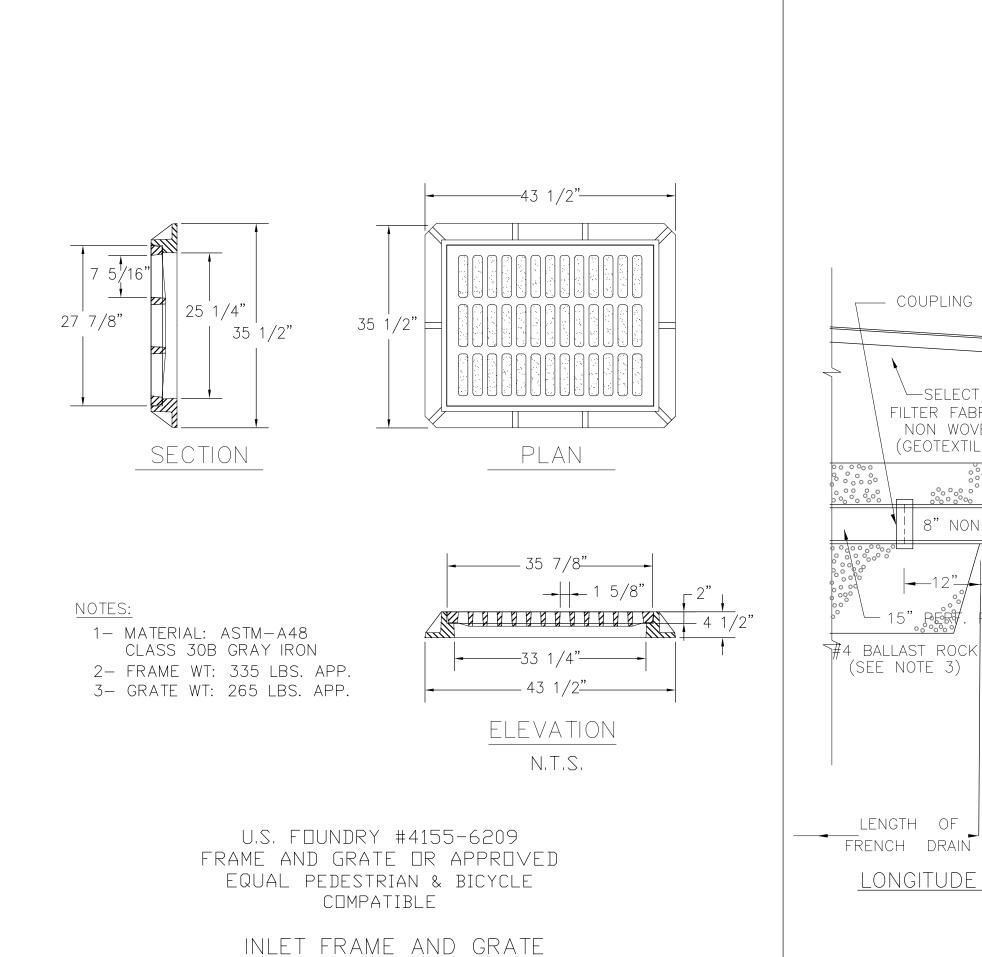
HOLES IN FLAT BARS.

POLLUTION RETARDANT BAFFLE DETAILS

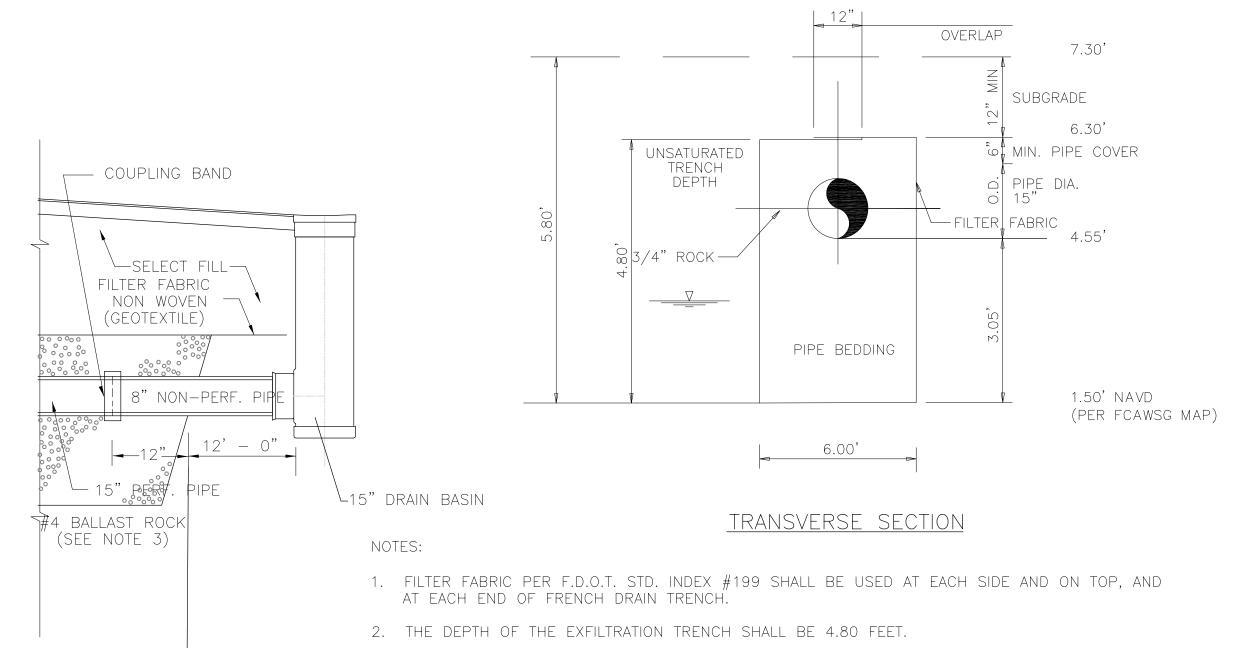
NOT TO SCALE



PRECAST DRAINAGE CATCH BASIN N.T.S.



NOT TO SCALE



3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY

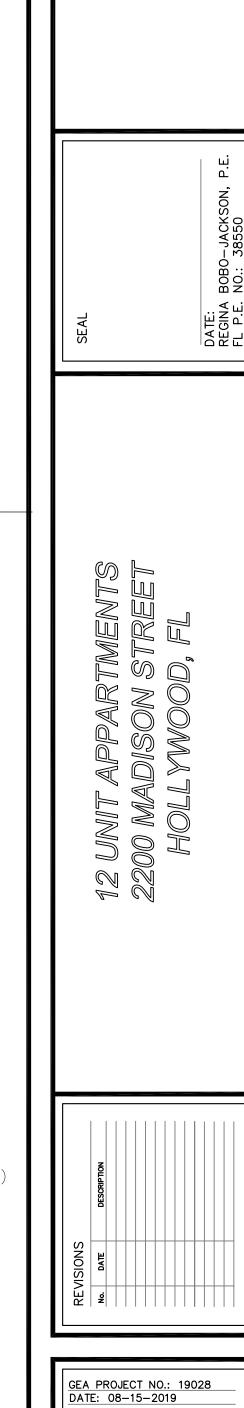
THAT THE EXFILTRATION TRENCH CAN BE COMPLETED IN ACCORDANCE WITH THE DETAIL.

OR COMPACTED IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE

ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION

TYPICAL DETAIL - EXFILTRATION TRENCH

N.T.S.



SCALE: AS SHOWN
DESIGNED BY: R.B.J.

DRAWN BY: L.B. CHECKED BY: R.B.J

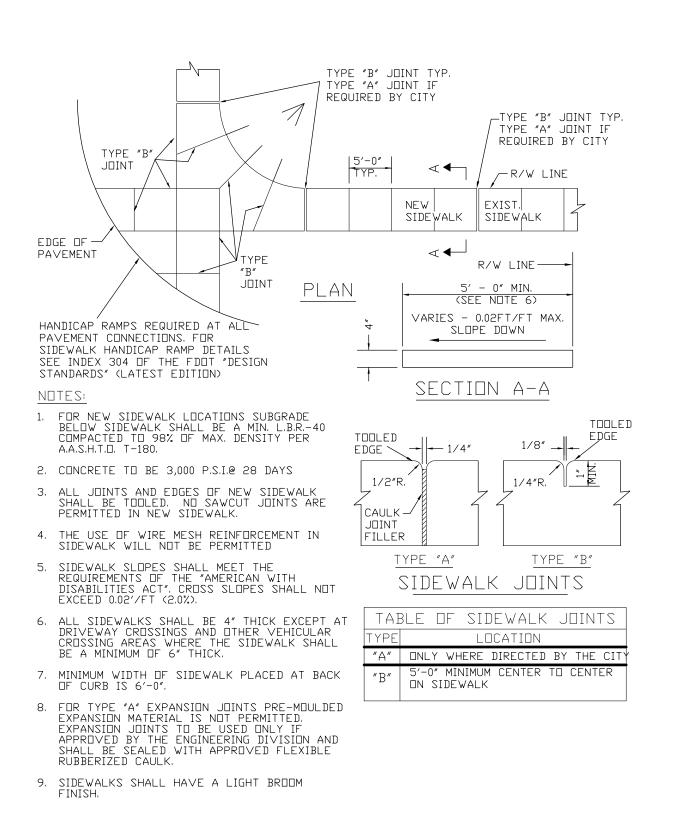
SHEET TITLE

APPROVED BY: R.B.J

SECTIONS &

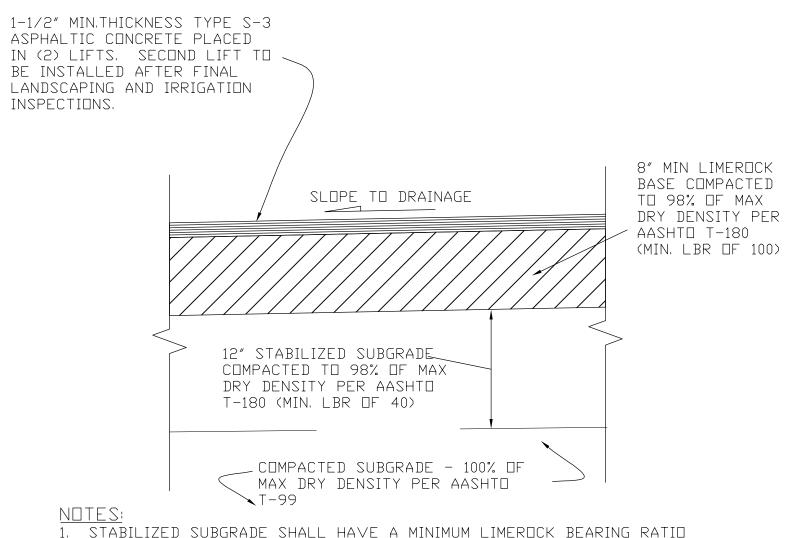
DETAILS

C3 of 4



SIDEWALK CONSTRUCTION DETAIL

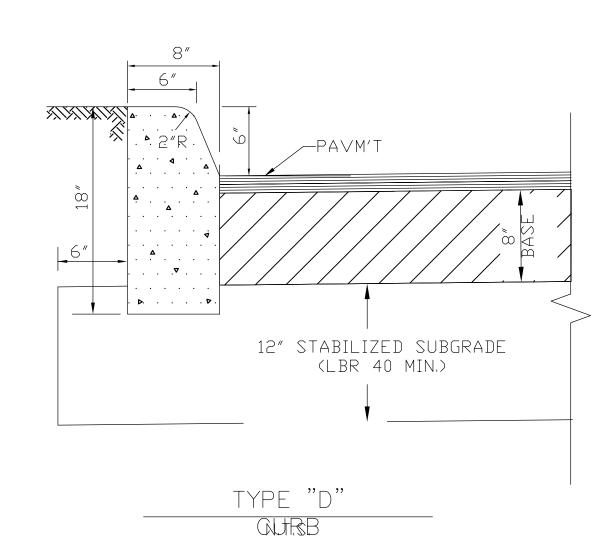
N.T.S.



1. STABILIZED SUBGRADE SHALL HAVE A MINIMUM LIMEROCK BEARING RATIO (LBR) OF 40 AND IS REQUIRED FOR ALL NEW PAVEMENT CONSTRUCTION. ALL STABILIZED SUBGRADE SHALL BE STRING LINED FOR GRADE AND PASS ALL REQUIRED DENSITY TESTING PRIOR TO PLACEMENT OF LIMEROCK BASE.

- 2. LIMEROCK BASE FOR PARKING LOTS SHALL BE A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM.
- 3. PRIME COAT SHALL BE APPLIED TO ALL FINISHED LIMEROCK BASE SURFACES AFTER BOARDING AND DENSITY INSPECTIONS. APPLICATION RATES AND MATERIALS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS.
- 4. TACK COAT SHALL BE PLACED BETWEEN SURFACE LIFTS, APPLICATION RATES AND MATERIALS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS.
- 5. THE FINAL PAVEMENT LIFT SHOULD NOT BE PLACED UNTIL ALL PROJECT LANDSCAPING IS IN PLACE AND THE IRRIGATION SYSTEM IS FINALED.

ASPHALTIC CONRETE PAVEMENT DETAIL N.T.S.



CURB NOTES:

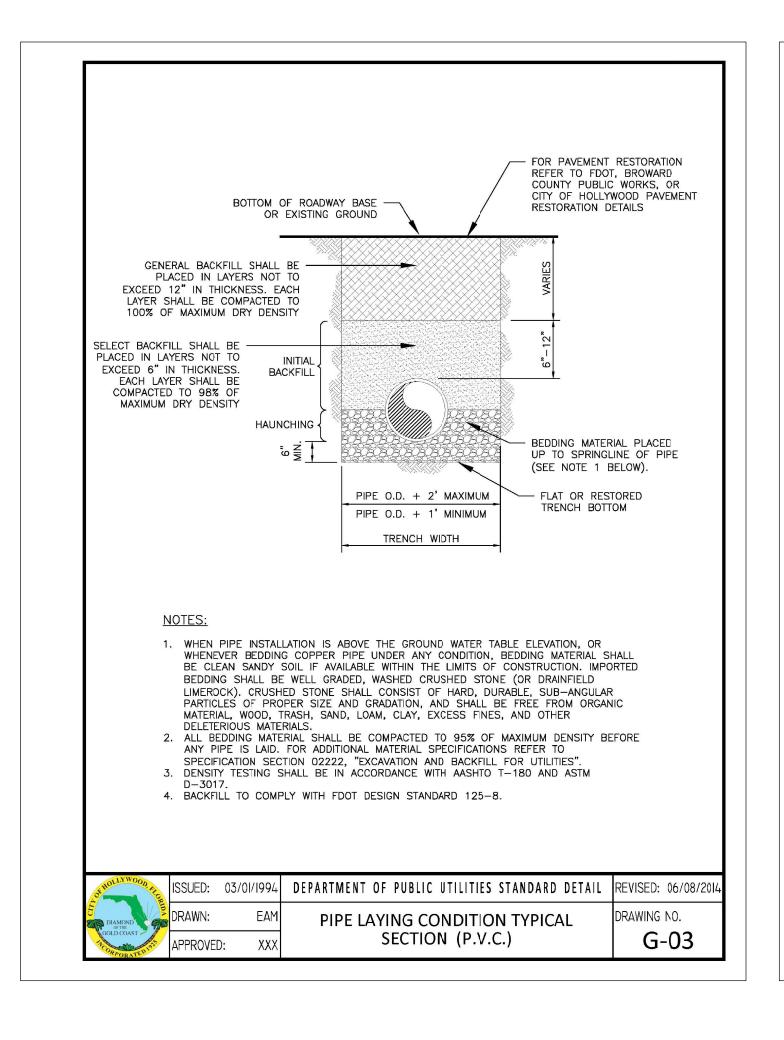
- 1. PROVIDE 1/4" WIDE CONTRACTION JOINT A MINIMUM OF 1-1/2" DEEP AND AT 10' SPACING MAXIMUM FOR ALL CURBS.
- 2. CONCRETE SHALL BE 3000 P.S.I. MIN. @ 28 DAYS.
- 3. TYPE "D" CURB FOR PARKING LOTS MAY BE INSTALLED AS "TRENCHED" D CURB WITH EXTRUDED TOP AT THE CONTRACTOR'S OPTION, TRENCHED CURB REQUIRES CITY TRENCH INSPECTION AND APPROVAL, EXTRUDED CURB MUST BE PLACED WITHIN 15 MINUTES OF PLACEMENT OF TRENCH CONCRETE. EXTRUDED CURB AND TRENCH CONCRETE SHALL BE MONOLITHIC.

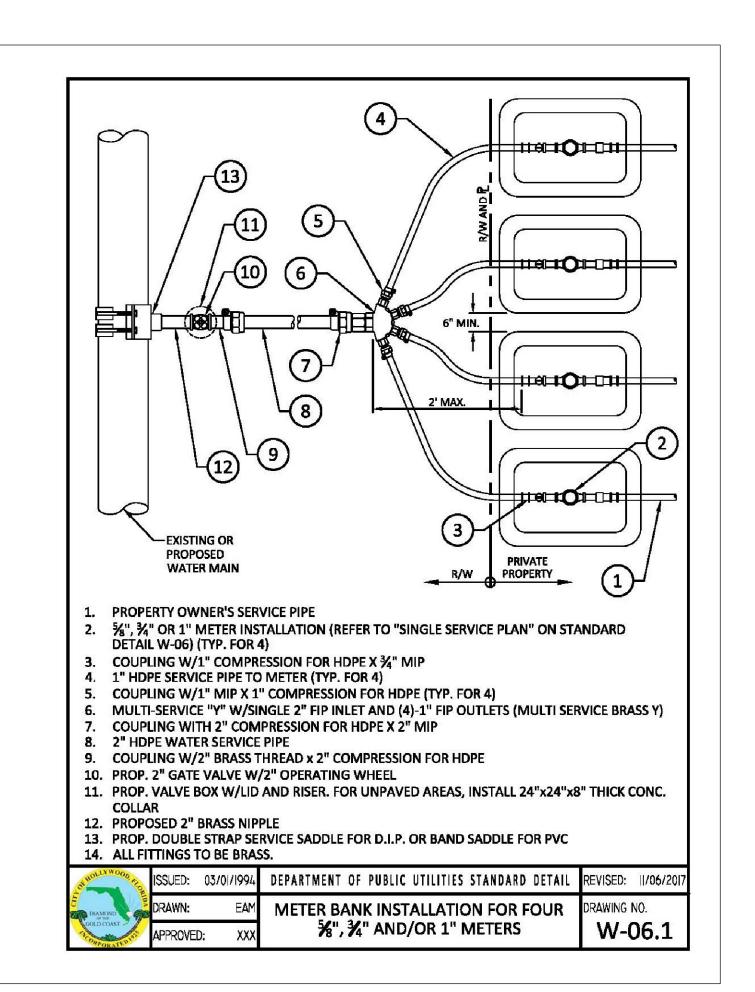
TYPE "D" CURB DETAIL N.T.S.

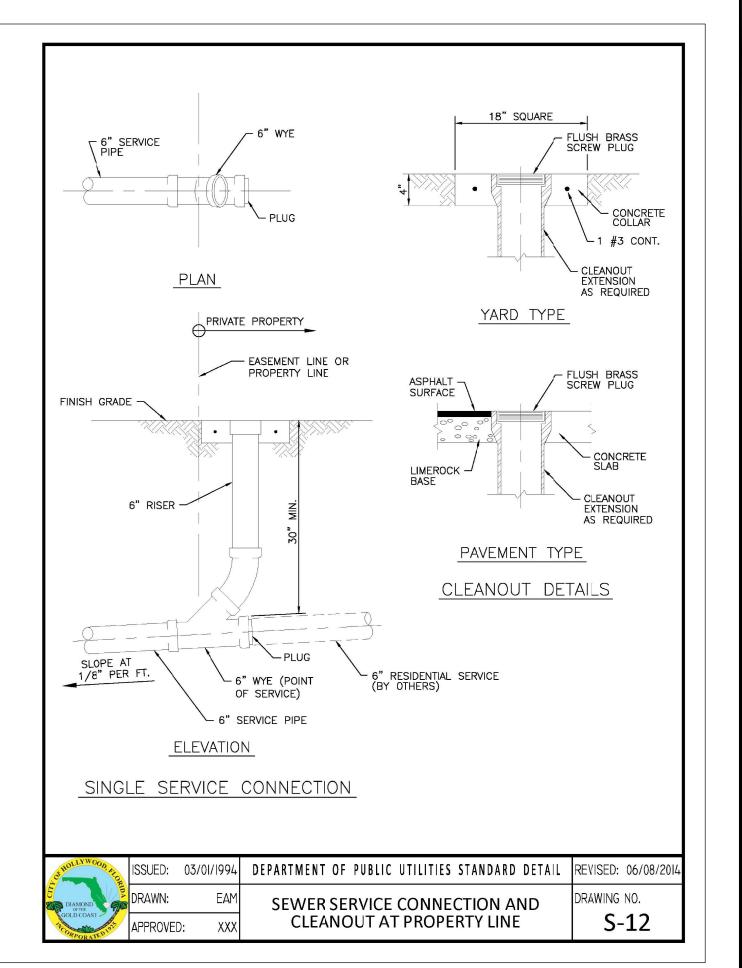
WATER METER SERVICE NOTES: 1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER.

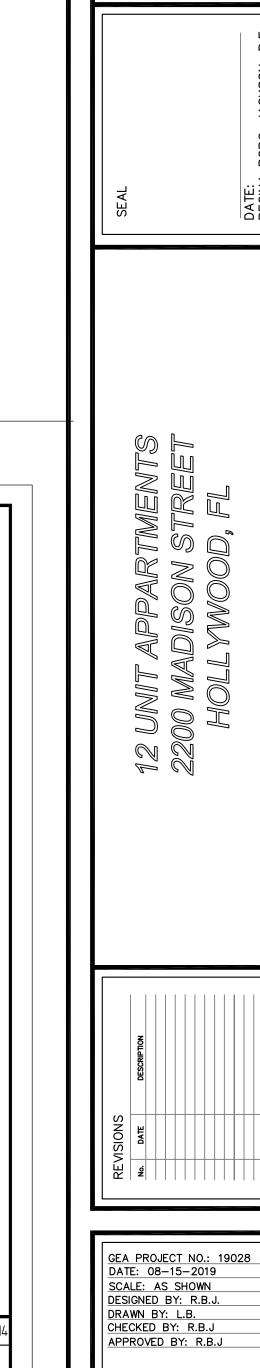
- P.E. TUBING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C901,
- "POLYETHYLENE (PE) PRESSURE PIPE AND TUBING, 1/2 IN. (13mm) THROUGH 3 IN. (76 mm), FOR
- MINIMUM SERVICE PIPE DIAMETER SHALL BE 1" FOR SINGLE OR DUAL ¾" OR SINGLE 1" DIAMETER METERS.
- MINIMUM SERVICE PIPE DIAMETER SHALL BE 2" FOR SINGLE OR DUAL 1-1/2" OR SINGLE 2"
- 5. FOR METER DIAMETERS LARGER THAN 2", THE MINIMUM SERVICE PIPE DIAMETER SHALL BE THE SAME AS THE METER DIAMETER.
- 6. APPROVED COPPER TUBING MAY BE USED AT THE CITY'S DISCRETION.
- FOR NEW METER INSTALLATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE WATER METERS WILL BE PROVIDED AND INSTALLED BY THE CITY OF HOLLYWOOD (NEW ACCOUNTS).
- 8. FOR METER RELOCATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE EXISTING WATER METER TO BE RELOCATED AND INSTALLED BY
- FOR EXISTING METERS ABUTTING THE RIGHT-OF-WAY THAT ARE BEING DISCONNECTED FROM EXISTING MAINS AND RECONNECTED TO NEW MAINS, THE CONTRACTOR SHALL:
- a. CUT AND PLUG THE EXISTING SERVICE LINE AT THE MAIN AND AT THE METER, AND REMOVE THE EXISTING BALL VALVE CURB STOP.
- b. FURNISH AND INSTALL SERVICE SADDLE, CORPORATION STOP OR SERVICE VALVE AND VALVE
- BOX, PIPING AND FITTINGS UP TO AND INCLUDING THE BALL VALVE CURB STOP. 12. THE ELEVATION AT THE TOP OF THE METER BOX SHALL MATCH THE ELEVATION OF THE BACK OF
- SIDEWALK, WHENEVER PRACTICAL. 13. AS PART OF THE SERVICE INSTALLATION, THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY
- TO MATCH EXISTING CONDITIONS, INCLUDING ROADWAY PAVEMENT, PAVEMENT MARKINGS AND RPMs, CONCRETE CURBS, SIDEWALKS, RAMPS (INCLUDING DETECTABLE WARNING SURFACE), SODDING, AND ALL OTHER IMPROVEMENTS REMOVED OR DAMAGED DURING THE SERVICE INSTALLATION.
- 14. FOR UNPAVED AREAS, THE MINIMUM GROUND COVER ACCEPTED BY THE CITY IS SODDING.

OF HOLLYWOOD TO	ISSUED:	03/0 /1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: /06/2017	
5 DIAMOND	DRAWN:	EAM	WATER METER SERVICE NOTES FOR	DRAWING NO.	
GOLD COAST	APPROVE): XXX	5/8" THROUGH 2" METERS	W-07	









SHEET TITLE

DETAILS

DRAINAGE CALCULATION

FOR

12 UNIT APARTMENTS 2200 MADISON STREET HOLLYWOOD, FLORIDA AUGUST, 2019

Prepared By:

Gator Engineering Associates, Inc. 11390 Temple Street Cooper City, Florida 33330

GEC Project No. 19028

Signed:	
~-6	Regina Bobo-Jackson, P.E.
	P.E. No. 0038550
	Dated:
	Pages 1-23

I. INTRODUCTION

The project, New Triplex, is proposed on a 10,2509 square feet (0.235 Ac) site located at within the City of Hollywood, Broward County, Florida. The project proposes the development of a three story building containing twelve (12) rental apartments. restaurant.

The site drainage is design to satisfy the Broward County Surface Water Management Division and SFWMD drainage criteria and regulations.

II. GIVEN PARAMETERS

- The average wet season water table is 1.5' NAVD per the FCAWSG map.
- Flood Zone: "AH"

Map No.: 125113 0569H Base Flood Elevation: 9

- The average existing site grade is 8.04' NAVD
- Site elevations

Road Crown (Madison Street)

Proposed Finish Floor (Lobby)

Highest Elevation = 8.31' NAVD

Elevation = 9.00' NAVD

III.	SITE BREAKDOWN	EXISTING	PROPOSED
•	Total	(0.235 Ac)	(0.235 Ac)
*	Impervious Buildings Pavement Walkways	(0.000 Ac) (0.000 Ac) (0.000 Ac)	(0.009 Ac) (0.142 Ac) (0.013 Ac)
•	Pervious	(0.235 Ac)	(0.071 Ac)

STORM WATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS

Project Name: Project Number:

2200 Madison Street - Pre- Development Condition

19028

Designed: Checked:

LK RBJ

I. Site Data

A. Acreage		0.235 ac
Total		0.233 ac
1. Impervious		0.000 ac
a. Pavement		0.000 ac
b. Sidewalk		
c. Building		0.000 ac
	Total Impervious	0.000 ac
2. Water Management		0.000
a. Lake		0.000 ac
b. Dry Retention		0.000 ac
c. Swale		0.000 ac
	Total Water Management	0.000 ac
3. Pervious		
o Cross area		0.235 ac
a. Grass area b. Green area Perimeter		0.000 ac
c. Green area near LME		0.000 ac
		0.000 ac
d. Lake Bank		0.000 ac
e. L.M.E.		0.000 ac
f. N/A		0.000 ac
g N/A	Total Pervious	0.235 ac
B. Minimum elevations		
		8.31 ft-NAV
Roads and Parking		9.00 ft-NAV
2. Finished Floor		9.00 ft-NAV
3. FEMA Flood Elevation		***************************************
C. Allowable discharge		0.00 CSM
 For the C-18 Canal (No Connection) Allowable discharge for this project 		0.0000 CFS
2. Allowable discharge for all projects		
D. Water level elevation		1.50 ft-NAV
 Wet season water table 		1.50 ft-NAV
2. Control elevation		N/A ft-NAV
Receiving body water level		IV/A II-IVA V
E. Rainfall amounts		2 22 1 1
E. Rainfall amounts		9.00 inches
		9.00 inches 15.00 inches 18.00 inches

STORM WATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS

Project Name:

2200 Madison Street - Pre- Development Condition

Project Number: 190

19028

Designed: LK
Checked: RBJ

II. Water Quality Computations

1. Compute the first inch of runoff from the developed project

= 1 in X total area X (1ft/12in)

= 0.020 ac-ft for the first inch of runoff

2. Compute 2.5 inches times the percentage of imperviousness

a. Site area for water quality pervious/impervious calculations only:

= Total project - (water surface + roof)

= 0.235 ac of site area for water quality pervious/impervious

b. Impervious area for water quality pervious/impervious calculation only:

= (site area for water quality pervious/impervious) - pervious

= 0.000 ac if impervious area for water quality pervious/impervious

c. Percentage of imperviousness for water quality:

= (Impervious area for water quality/site area for water quality) 100%

= 0.00 % impervious

d. For 2.5 inches times the percentage impervious:

= 2.5 X percent impervious

= 0.00 inches to be treated

e. Compute volume required for water quality detention:

= Inches to be treated X (total site - Lake)

= 0.000 ac-ft for the 2.5 inches times the percentage imperviousness

3. Since the

0.020 ac-ft for the first inch of runoff is greater than 0.000 ac-ft for the 2.5 inches times the percentage imperviousness

0.020 ac-ft controls

Storage (ac-ft)	Stage (ft)
0.00	7.50
0.02	7.68
0.05	8.00

STORMWATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS

Project Name: Project Number: 2200 Madison Street - Pre- Development Condition

19028

Designed: Checked:

LK RBJ

III. SCS Curve Number

Average site finished grade

Land use	Area-A (ac)	Grade-G (ft)	A X G
Pavement	0.0000	6.00	0.00
Sidewalk	0.0000	0.00	0.00
Building	0.0000	7.37	0.00
Lake	0.0000	0.00	0.00
Green area near LME	0.0000	0.00	0.00
Green area Perimeter	0.0000	0.00	0.00
Grass area	0.2350	7.90	1.86
N/A	0.0000	0.00	0.00
N/A	0.0000	0.00	0.00
Lake Bank	0.0000	0.00	0.00
L.M.E.	0.0000	0.00	0.00
Total	0.2350		1.86
Weighted Site Grade			7.90 ft-NGVI

2. Average depth to water table will be

= Average site grade - average water table/control elevation

= 6.40 ft

3. Soil type Flatwoods

4. From the soil storage calculation sheet, inches of moisture stored under the pervious areas for this type of soil is:

6.75 inches

5. Compute available soil storage

= Storage available X pervious area

= 0.13 ac-ft available soil storage onsite

6. Convert available soil storage to site-wide moisture storage, S

= Available soil storage onsite/site area

= 6.75 inches of site-wide storage, S

7. SCS Curve Number, CN

= 1000/(S+10)

= 60 SCS Curve Number

8

Gator Engineering Associates, Inc.

11390 Temple Street, Cooper City, FL-33330 Tel 954.434.5905 - Fax 954.434.5904

STORM WATER MANAGEMENT AND SOIL STORAGE CALCULATION

Project Name:

2200 Madison Street - Pre- Development Condition

Project Number:

19028

Designed: LK Checked: RBJ

	1 (Coastal (1)	Flatwo	ods (2)	Depressional (3)		
Depth to Water Table (feet)	Cumulative Water Storage (inches)	Compacted Water Storage (inches)	Cumulative Water Storage (inches)	Compacted Water Storage (inches)	Cumulative Water Storage (inches)	Compacted Water Storage (inches)	
1	0.60	0.45	0.60	0.45	0.60	0.45	
1		1.88	2.50	1.88	2.10	1.58	
2	2.50		5.40	4.05	4,40	3.30	
3	6.60	4.95	9.00	6.75	6.80	5.10	
4	10.90	8.18	9.00	0.75	0.00		

- (1) Sandy Soil 0-40" thick with water tables dropping below 40" St. Lucie series is representative.
- (2) Water tables 15"-40" Immokalee series is representative
- (3) Water tables above ground 15" Riviera and Pompano series are representative
- * 4 feet is the maximum depth of percolation assumed possible in three days for any soil.
 - A. From the calculation the average depth to the water table is
 - B. The Soil Type is
 - C. Assuming 25% compaction
 - D. Inches of moisture stored under pervious area

Depth to Water Table (feet)	Compacted Water Storage (inches)
3.00	4.05
6.40	6.75
4.00	6.75

6.40 ft Flatwoods

SOUTH FLORIDA WATER MANAGEMENT DISTRICT FLOOD ROUTING CALCULATIONS

Project Name: Project Number: 2200 Madison Street - Pre- Development Condition

19028

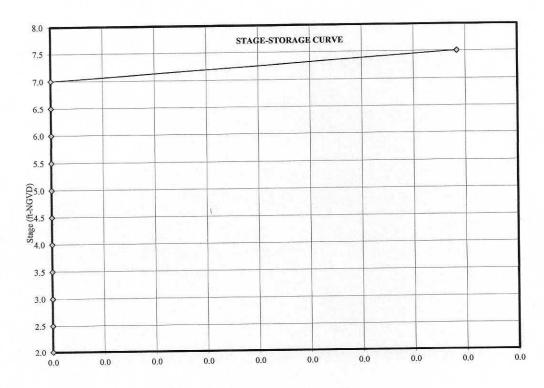
Designed: Checked: LK RBJ

III. Computations

C. Project surface storage

Land use	Start	End	Area
Band use	ft	ft	Acres
	0.00	0.00	0.0000
Pavement			0.0000
Sidewalk	0.00	0.00	
Building	0.00	0.00	0.0000
Green area Perimeter	0.00	0.00	0.0000
Grass area	7.30	8.50	0.2350
Green area near LME	0.00	0.00	0.0000
Berm	0.00	0.00	0.0000
N/A	0.00	0.00	0.0000
Lake	0.00	0.00	0.0000
Lake Bank	0.00	0.00	0.0000
L.M.E.	0.00	0.00	0.0000

- 2. For Stage-Storage curve data, please refer to table attached.
- 3. Stage-Storage curve.



Storage (ac-ft)

STORM WATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS STAGE - STORAGE CALCULATION

Project Name:

2200 Madison Street - Pre- Development Condition

Project Number:

19028

Stage-Storage Curve Data

Sub area	Grass	area	Lak	(e	Sidew	alk	Pavem	ent	L.M.	.E.	
Low El.	7.30		0.00		0.00		0.00		0.00		Total
High El.	8.50		0.00		0.00		0.00		0.00		Storage a
Area (ft^2)	10236.60		0.00		0.00		0.00		0.00		ft
Area (acres)	0.235		0.000		0.000	Name - American - Amer	0.000	1	0.000	¥74	
Stage (NAVD)	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	
1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
8.00 8.50	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14

Project Name: 2200 Madison Street

Reviewer: RBJ

Project Number: 19028

Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr Time Step: 0.2 hr, Iterations: 10

Basin 1: Project Site

Method: Santa Barbara Unit Hydrograph Rainfall Distribution: SFWMD - 3day Design Frequency: 25 year 3 Day Rainfall: 15 inches Area: 0.235 acres Ground Storage: 6.75 inches Time of Concentration: 0.1 hours Initial Stage: 7.3 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
7.50	0.00
8.00	0.05
8.50	0.14

User Specified Rainfall Distribution: User1

Time	Rainfall	
(hr)	(percent	
0.00	0.00	

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	May	(cfs)	Time	(hr)	Min	(cfs)	Time	(hr
Struc	Max	(CTD)	T TIME	(111)	11111	10201		

BASIN MAXIMUM AND MINIMUM STAGES

				=======
Basin	Max (ft)	Time (hr)	Min (ft)	Time (hr)
Project Site	8.72	73.00	7.30	0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Site	0.18	0.00	0.00	0.00	0.18	0.00

Project Name: 2200 Madison Street

Reviewer: RBJ

Project Number: 19028

Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr Time Step: 0.2 hr, Iterations: 10

Basin 1: Project Site

Method: Santa Barbara Unit Hydrograph Rainfall Distribution: SFWMD - 3day Design Frequency: 100 year 3 Day Rainfall: 18 inches Area: 0.235 acres

Ground Storage: 6.75 inches Time of Concentration: 0.1 hours

Initial Stage: 7.3 ft NGVD

Stage	Storage
(ft NGVD)	(acre-ft)
7.50	0.00
8.00	0.05
8.50	0.14

User Specified Rainfall Distribution: User1

Time	Rainfall
(hr)	(percent)
0.00	0.00

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

				The second second			m '	110001
01	Morr	(cfs)	Time	(hr)	Min	(cfs)	Time	(III)
Struc	Max	(CIS)	TIME	(111-)	44-44	,,		

BASIN MAXIMUM AND MINIMUM STAGES

	Basin	Max	(ft)	Time	(hr)	Min	(ft)	Time	(hr)
Project	====== : Site	====	9.01		73.00		7.30		0.00

BASIN WATER BUDGETS (all units in acre-ft)

Basin	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Site	0.23	0.00	0.00	0.00	0.23	0.00

POST DEVELOPMENT STAGE STORAGE CALCULATIONS

STORM WATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS

Project Name:
Project Number:
I. Site Data

2200 Madison Street - Post Development Condition

19028

Designed: Checked:

LK RBJ

Site Data		
A. Acreage		0.235 ac
Total		0.233 de
1. Impervious		0.142 ac
a. Pavement		0.013 ac
b. Sidewalk		0.009 ac
c. Building		0.009 40
	Total Impervious	0.164 ac
2. Water Management		0.000 aa
a. Lake		0.000 ac 0.000 ac
b. Dry Retention		0.000 ac
c. Swale		0.000 ac
	m 1 W 2 V	0.000 ac
	Total Water Management	0.000 ac
3. Pervious		
5. 1017,045		0.071
a. Swale Area		0.071 ac 0.000 ac
b. Green Area		0.000 ac
c. Swale Area		0.000 ac
d. Green Area		0.000 ac
e. Swale Area		0.000 ac
f. Other Green Areas		0.000 ac
g NA	Total Pervious	0.071 ac
B. Minimum elevations		
Niminfull Clevations Driveway and Parking		8.31 ft-NAVD
2. Finished Floor		9 ft-NAVD
3. FEMA Flood Elevation		9.00 ft-NAVD
C. Allowable discharge		0.00 CSM
 No Waterbody Connection Allowable discharge for this project 		0.0000 CFS
2. Allowable discharge for this project		
D. Water level Elevation		
 Wet season water table 		1.50 ft-NAVD
2. Control elevation		1.50 ft-NAVD
3. Receiving body water level		NA ft-NAVD
E. Rainfall amounts		0.00
1. Design Storm (10-year 1 day)		9.20 inches
Design Storm (25-year 3 day)		14.00 inches
3. Finish Floor (100-year 3 day)		18.00 inches

STORM WATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS

Project Name:

2200 Madison Street - Post Development Condition

Project Number:

Designed Checked:

III. Computations

- 1. Compute the first inch of runoff from the developed project
 - = 1 in X total area X (1ft/12in)
 - = 0.020 ac-ft for the first inch of runoff
- 2. Compute 2.5 inches times the percentage of imperviousness
 - a. Site area for water quality pervious/impervious calculations only:
 - = Total project (water surface + roof)
 - = 0.226 ac of site area for water quality pervious/impervious
 - b. Impervious area for water quality pervious/impervious calculation only:
 - = (site area for water quality pervious/impervious) pervious
 - ac if impervious area for water quality pervious/impervious 0.155
 - c. Percentage of imperviousness for water quality:
 - = (Impervious area for water quality/site area for water quality) 100%
 - % impervious 68.58
 - d. For 2.5 inches times the percentage impervious:
 - = 2.5 X percent impervious
 - inches to be treated 1.71
 - e. Compute volume required for water quality detention:
 - = Inches to be treated X (total site Lake)
 - 0.034 ac-ft for the 2.5 inches times the percentage imperviousness
- 3. Since the
- ac-ft for the 2.5 inches times the percentage imperviousn is greater than the 0.034
- ac-ft for the first inch of runoff 0.020
- ac-ft controls 0.034

Storage (ac-ft)	Stage (ft)
0.049	7.50
0.034	7.23
0.076	8.00

Water quality for the site is provided by the proposed exfiltration trench.

STORM WATER MANAGEMENT AND SOIL STORAGE CALCULATION

Project Name:

2200 Madison Street - Post Development Condition

Project Number:

19028

Designed: LK Checked: RBJ

		Coastal (1)	Flatwo	ods (2)	Depress	ional (3)
Depth to Water Table (feet)	Cumulative Water Storage (inches)	Compacted Water Storage (inches)	Cumulative Water Storage (inches)	Compacted Water Storage (inches)	Cumulative Water Storage (inches)	Compacted Water Storage (inches)
1	0.60	0.45	0.60	0.45	0.60	0.45
1	2.50	1.88	2.50	1.88	2.10	1.58
2	6.60	4.95	5.40	4.05	4.40	3.30
<u> </u>	10.90	8.18	9.00	6.75	6.80	5.10

- (1) Sandy Soil 0-40" thick with water tables dropping below 40" St. Lucie series is representative.
- (2) Water tables 15"-40" Immokalee series is representative
- (3) Water tables above ground 15" Riviera and Pompano series are representative
- * 4 feet is the maximum depth of percolation assumed possible in three days for any soil.
 - A. From the calculation the average depth to the water table is
 - B. The Soil Type is
 - C. Assuming 25% compaction
 - D. Inches of moisture stored under pervious area

Depth to Water Table (feet)	Compacted Water Storage (inches)
3.00	4.05
6.66	6.75
4.00	6.75

6.66 ft Flatwoods

16

STORMWATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS

Project Name: Project Number: 2200 Madison Street - Post Development Condition

19028

Designed: Checked: LK RBJ

III. Computations

B. SCS Curve Number

2. Average site finished grade

Land use	Area-A (ac)	Grade-G (ft)	A X G
Pavement	0.1420	8.15	1.16
Sidewalk	0.0130	8.65	0.11
Building	0.0090	9.00	0.08
Lake	0.0000	0.00	0.00
Swale Area	0.0000	0.00	0.00
Green Area	0.0000	0.00	0.00
Swale Area	0.0710	8.00	0.57
Other Green Areas	0.0000	0.00	0.00
NA	0.0000	0.00	0.00
Green Area	0.0000	0.00	0.00
Swale Area	0.0000	0.00	0.00
Total	0.2350		1.92
Weighted Site Grade			8.16 ft-NGVI

3. Average depth to water table will be

= Average site grade - average water table/control elevation

= 6.66 f

4. Soil type Flatwoods

5. From the soil storage calculation sheet, inches of moisture stored under the pervious areas for this type of soil is:

6.75 inches

6. Compute available soil storage

= Storage available X pervious area

= 0.04 ac-ft available soil storage onsite

7. Convert available soil storage to site-wide moisture storage, S

= Available soil storage onsite/site area

= 2.04 inches of site-wide storage, S

6. SCS Curve Number, CN

= 1000/(S+10)

83 SCS Curve Number

SOUTH FLORIDA WATER MANAGEMENT DISTRICT FLOOD ROUTING CALCULATIONS

Project Name: Project Number: 2200 Madison Street - Post Development Condition

19028

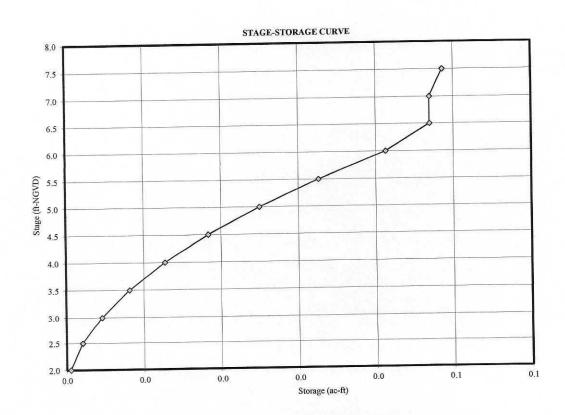
Designed: Checked: LK RBJ

III. Computations

C. Project surface storage

e storage Land use	Start	End	Area
Pavement	7.30	9.00	0.1420
Sidewalk	8.30	9.00	0.0130
Building	9.00	9.00	0.0090
Green Area	0.00	0.00	0.0000
Swale Area	7.50	8.50	0.0710
Swale Area	0.00	0.00	0.0000
Other Green Areas	0.00	0.00	0.0000
NA	0.00	0.00	0.0000
Lake	0.00	0.00	0.0000
Green Area	0.00	0.00	0.0000
Swale Area	0.00	0.00	0.0000

- 2. For Stage-Storage curve data, please refer to table attached.
- 3. Stage-Storage curve.



STORM WATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS

Project Name:

2200 Madison Street - Post Development Condition

Project Number:

19028

Designed LK
Checked: RBJ

A. Exfiltration Trench Basin

$V_{wq} =$	0.034
GW=	1.50
WIDTH =	6.50
H =	4.80
TOP EL.	6.30
BOT. EL.	1.50
d =	1.25
INV. EL.	4.55
Du =	4.80
$D_S =$	0.00
H2 =	5.80

Required pre-treatment Volume in ac-ft (October Average Groundwater Level, ft., NAVD) (Exfiltration Trench Width, ft.)

(Exfiltration Trench Top Elev., ft., NAVD) (Exfiltration Trench Bottom Elev., ft., NAVD)

(Exfiltration Trench Diameter, ft.)

(Exfiltration Trench Pipe Invert Elev., ft., NAVD)

(Volume of runoff that can be stored)

(Depth of Trench below the Water table)

Height of ground surface above the design water table)

*H₂ D_u PIPE H H SIENCH WIDTH

* DEPTH OF EFFECTIVE HEAD

K-Value:

N-value.					
	K _{AVG}	2	2.56E-04		
K =	0.00025	6 Hydrai	alic Conductiv	ity, cfs/cu. Ft. h	ead
FS =	2				
%WQ =	0.5				
Vwq =	0.034	ac-ft	=	0.41	ac-in
Vadd =	0.000	ac-ft	w= '0'	0.000	ac-in

Exfiltration Trench Length formula, L =

$$\frac{FS((\%WQ)(Vwq)+Vadd)}{K(H_2W+2H_2D_U-D_U^2+2H_2D_S)+(1.39 \times 10^{-4})WD_u}$$

Required Exfiltration length L =

18.26 LF

Provided Exfiltration length L =

142.00 ft

STORM WATER MANAGEMENT AND FLOOD ROUTING CALCULATIONS STAGE - STORAGE CALCULATION

Project Name: Project Number:

2200 Madison Street - Post Development Condition

19028

Designed: LK Checked: RBJ

Stage-Storage Curve Data

Sub Area	Swale A	Area	Sidew	alk	Pavem	ent	Swale	Area	Green	Area	Exfiltratio	n Trench	
Low El.	7.50 8.50		8.30 9.00		7.30 9.00		0.00		0.00		1.50 6.30		Total
2* Area (ft^2) Area (acres)	3092.76 0.071		566.28 0.013		6185.52 0.142		0.00		0.00 0.000		852.00 0.020		Storage ac-f
Stage (NAVD)	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	Linear Stor.	Vert. Stor.	
1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01
4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02
5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02
5.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03
6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04
6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05
7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05
7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05
8.00	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.08
8.50	0.04	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.14
9.00	0.04	0.04	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.24

Project Name: 2200 Madison Street

Reviewer: RBJ

Project Number: 19028

Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr

Time Step: 0.2 hr, Iterations: 10

Basin 1: Project Site

Method: Santa Barbara Unit Hydrograph Rainfall Distribution: SFWMD - 3day

Design Frequency: 25 year 3 Day Rainfall: 15 inches

Area: 0.235 acres

Ground Storage: 2.04 inches Time of Concentration: 0.1 hours

Initial Stage: 1.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
	0.00
3.00	0.00
3.50	• • • • •
4.00	0.01
4.50	0.02
5.00	0.03
5.50	0.03
6.00	0.03
6.50	0.05
7.00	0.05
7.50	0.08
8.00	0.14
8.50	0.24

User Specified Rainfall Distribution: Userl

Time	Rainfall
(hr)	(percent)
	and the second
0.00	0.00

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max	(cfs)	Time	(hr)	Min	(cfs)	Time	(hr
UCIUC		\ ~ ·						

BASIN MAXIMUM AND MINIMUM STAGES

Basin	Max (ft	 :)	(hr)	Min	(ft)	Time	(hr)
Project Site	8.5	 55 7	73.00		1.50		0.00

BASIN WATER BUDGETS (all units in acre-ft)

	Total Runoff	Structure Inflow	Structure Outflow	Initial Storage	Final Storage	Residual
Project Site	0.25	0.00	0.00	0.00	0.25	0.00

Project Name: 2200 Madison Street

Reviewer: RBJ

Project Number: 19028

Period Begin: Jan 01, 2000;0000 hr End: Jan 16, 2000;0000 hr Duration: 360 hr Time Step: 0.2 hr, Iterations: 10

Basin 1: Project Site

Method: Santa Barbara Unit Hydrograph Rainfall Distribution: SFWMD - 3day

Design Frequency: 100 year 3 Day Rainfall: 18 inches

Area: 0.235 acres

Ground Storage: 2.04 inches Time of Concentration: 0.1 hours

Initial Stage: 1.5 ft NGVD

Stage (ft NGVD)	Storage (acre-ft)
	0.00
3.00	0.01
3.50	7.4.1-178.000
4.00	0.01
4.50	0.02
5.00	0.03
5.50	0.03
6.00	0.03
6.50	0.05
7.00	0.05
7.50	0.08
8.00	0.14
8.50	0.24

User Specified Rainfall Distribution: User1

Time	Rainfall
(hr)	(percent)
0.00	0.00

STRUCTURE MAXIMUM AND MINIMUM DISCHARGES

Struc	Max	(cfs)	Time	(hr)	Min	(cfs)	Time	(hr
ULLUC	11011	101						and the same

BASIN MAXIMUM AND MINIMUM STAGES

======================================	======= Max (ft)	Time (hr)	 Min (ft)	Time (hr)
Project Site	8.84	73.00	1.50	0.00

BASIN WATER BUDGETS (all units in acre-ft)

===========	Total	Structure	Structure	Initial	Final	Residual
Basin	Runoff	Inflow	Outflow	Storage	Storage	
Project Site	0.31	0.00	0.00	0.00	0.31	0.00

SUMMARY

a. Stage-Storage Computations

Stage storage was calculated for the pre-design and post-design (no discharge). The 25 year, 3 day – No discharge and the 100 year, and the 3 day – No discharge flood routing was calculated for both the pre and post-design. The results are listed below.

	Pre Development	Post Development
Design Storm	Stage (ft) (NAVD)	Stage (ft) (NAVD)
5-Year 3-day storm	8.72'	8.55'
100-Year 3-day storm	9.01'	8.84'

Based on the Cascade model for the Post design storm events, it is clear the storm management system will be sufficient to handle runoff from the 25 year 3 day storm and 100 year 3 day events.

The Finish Floor elevation of the proposed building lobby is at 9.00 NAVD which is higher than the 100 year 3day stage elevation of 8.84' NAVD and slightly lower than the 100 year 3 day pre development condition.

There is no discharge from the proposed site and all runoff will be maintained on site.

GATOR ENGINEERING ASSOCIATES, INC.

INVOICE

Project Name: 12 Unit Apartments -

2200 Madison Street

Invoice #: 19028-1

Invoice Date: 08/20/19

Bill To: PABLO FERNÁNDEZ

WILFERZ COMPANY 2239 JACKSON ST

HOLLYWOOD, FL 33020

Description	Amount
Drainage Plan Preparation - Lump Sum	\$ 2,400.00
Total	\$ 0.00
Reimbursable Expenses (+15%)	\$ 0.00
(-) Retainer	\$ 1,200.00
Amount Due	\$ 1,200.00

FOR OFFICE USE ONLY

REMITTANCE

Date:

Amount Due: Amount Paid:



Environmental Protection and Growth Management Department Environmental Engineering and Permitting Division Surface Water Management Program

1 North University Drive, Mailbox 201 • Plantation, Florida 33324

954-519-1483 • FAX 954-519-1495 • broward.org/environment

Surface Water Management License Application

Please consult Chapter 27, Broward County Code of Ordinances (Section 27-199 (c) (2)] for specific requirements needed to provide a complete application. Copies of these regulations are available upon request. Many projects also require approval by other State, Federal, and Local agencies.

State, Federal, and Local agencies.		
Type of License (check all that apply) ☐ General ☐ Conceptual ☐ Conceptual Concurrent of SWM ☐ SWM Modification to Permit No.	with DRI	
Project Information		
Project Title:		
Project Address:		
Land use type (residential, commercial, etc.):		_
Location: Section(s):Township:	Range:	_
BCPA Folio Number(s):		_
Project Acres: Acres of Impervious:	Total Acres, per Survey:	_
Project Description (in general terms):		
Property Owner Information		
Name:	Phone:	_
Address:		_
Email:		_
Contact Name (if different from Owner):Email:		_
System Designer		
Firm Name:		_
Address:		
Engineer of Record:	Phone:	_
Email:		_
Who will be responsible for the Surface Water Management systematics and the surface water Management systematics and the surface water Management systematics are supplied to the surface water Management systematics and the surface water Management systematics are supplied to the surface water Management systematics.	em after construction?	
(Name of Person. Entity, c	or Association)	_
Owner/Agent Name (print):		_
Owner/Agent Signature:		_
(If Agent -/written authorization	must be provided)	

Form 212-0006 Rev 07/2017 Page 1 of 1

STREET PROFILE





STREET PROFILE 2200 MADISON STREET



2200 MADISON STREET

MADISON STREET





WILFERZ COMPANY, LLC – WILFERZ LEASING, LLC
WILFERZ BUILDERS, LLC
2239 JACKSON ST HOLLYWOOD FL 33020
786-838-7310 / 786-838-8159
WILFERZCO@GMAIL.COM

WWW.WILFERZ.COM





