FIRE STATION No. 13 **CITY OF FORT LAUDERDALE** DEVELOPMENT SERVICES - URBAN DESIGN & PLANNING SUBMITTAL FOR **DEVELOPMENT REVIEW COMMITTEE (DRC)** PLAT APPLICATION PL-00-23



LOCATION MAP SECTION 3, TOWNSHIP 50 S, RANGE 42E

NOT TO SCALE HUGH TAYLOR BIRCH STATE PARK 3109 E SUNRISE BLVD, FT LAUDERDALE, FL 33305 BCPA FOLIO# 494236000010

CTA PROJECT NO.: 20-0030

CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS · PLANNERS · SURVEYORS 3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309 TEL.: (954) 739-6400 FAX: (954) 739-6409 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

MATERIAL SHOWN HEREON IS THE PROPERTY OF CRAVEN THOMPSON & ASSOCIATES, INC. AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT PERMISSION OF CRAVEN THOMPSON & ASSOCIATES, INC. COPYRIGH

PROJECT CONSULTANTS

PRIME CONSULTANT, **ARCHITECT OF RECORD**

ACAI ARCHITECTURE & ENGINEERING 2937 WEST CYPRESS CREEK RD, STE 200 FORT LAUDERDALE, FL 33309 ADOLFO J. COTILLA, JR., AIA PHONE: 954-484-4000

LEAD CONSULTANT

SPINNAKER GROUP 1409 GEORGIA AVEUNE WEST PALM BEACH, FL 33401 PHONE: 561-801-7576

LAND PLANNING, **CIVIL ENGINEERING,** LANDSCAPE ARCHITECTURE

CRAVEN THOMPSON & ASSOCIATES, INC 3563 NW 53 STREET FORT LAUDERDALE, FLORIDA 33309 MATT EDGE, CNU-A ALEX SCHEFFER, PE JOE HANDLEY, RLA PHONE: 954-739-6400

STRUCTURAL **S&F ENGINEERS** 2529 WEST CYPRESS CREEK RD, STE 200 FORT LAUDERDALE, FL 33309 PHONE: 954-938-0020

MECHANICAL, ELECTRICAL, PLUMBING

DELTA G CONSULTING ENGINEERS, INC 707 NE 3RD AVENUE. STE 202 FORT LAUDERDALE, FL 33304CHAD PHONE: 954-527-1112

PREPARED FOR: City of Fort Lauderdale / Trustees of the Internal Improvement Fund of the State of Florida

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UTILITY SERVICE PROVIDERS

CITY OF FORT LAUDERDALE: WATER, SANITARY SEWER, STORMWATER

XFINITY

FLORIDA POWER & LIGHT, INC.

AMERICAN & TELEPHONE & TELEGRAPH CO.

(]-]

DEVELOPMENT SERVICES DEPARTMENT



DEVELOPMENT APPLICATION FORM

Application Form: All Applications | Rev. 01/24/2023

INSTRUCTIONS: The following information is required pursuant to the City's Unified Land Development Regulations (ULDR). The development application form must be filled out accurately and all applicable sections must be completed. Only complete the sections indicated for application type with N/A for those section items not applicable. Refer to "*Specifications for Plan Submittal*" by application type for information requirements for submittal. Select the application type and approval level in <u>SECTION A</u> and complete the sections specified.

A APPLICATION TYPE AND	APPROVAL LEVEL	Select the application type from the list	below and check the applicable type.
LEVEL I ADMINISTRATIVE REVIEW COMMITTEE (ADMIN)	DEVEL II DEVELOPMENT REVIEW COMMITTEE (DRC)	LEVEL III PLANNING AND ZONING BOARD (PZB)	LEVEL IV CITY COMMISSION (CC)
New nonresidential less than 5,000 square feet Change of use (same impact or less than existing use) Plat note/Nonvehicular access line amendment Administrative site plan Amendment to site plan* Property and right-of-way applications (MOTs, construction staging) Parking Agreements (separate from site plans)	New Nonresidential 5,000 square feet or greater Residential 5 units or more Nonresidential use within 100 feet of residential property Redevelopment proposals Change in use (if great impact than existing use) Development in Regional Activity Centers (RAC)* Development in Uptown Project Area* Regional Activity Center Signage Design Review Team (DRT) Affordable Housing (≥10%)	Conditional Use Parking Reduction Flex Allocation Cluster / Zero Lot Line Modification of Yards* Waterway Use Mixed Use Development Community Residences* Social Service Residential Facility (SSRF) Medical Cannabis Dispensing Facility* Community Business District for uses greater than 10,000 square feet	Land Use Amendment Rezoning Plat Public Purpose Use Central Beach Development of Significant Impact* Vacation of Right-of-Way City Commission Review Only (review not required by PZB) Vacation of Easement*
COMPLETE SECTIONS B, C, D, G	COMPLETE SECTIONS B, C, D, E, F	COMPLETE SECTIONS B, C, D, E, F	COMPLETE SECTIONS B, C, D, E, F
EXTENSION	DEFERRAL	APPEAL/DE NOVO	PROPERTY AND ROW ITEM
Request to extend approval date for a previously approved application	Request to defer after an application is scheduled for public hearing	Appeal decision by approving body De Novo hearing items	Road closures Construction staging plan Revocable licenses
COMPLETE SECTIONS B, C, H	COMPLETE SECTIONS B, C, H	COMPLETE SECTIONS B, C, H	COMPLETE SECTIONS B, C, E
"Application is subject to specific review	w and approval process. Levels III and I	v are reviewed by Development Review C	committee unless otherwise noted.

PAPPLICANT INFORMATION 👘 if applicant is the business operator, complete the agent column and provide property owner authorization.					
Applicant/Property Owner	Trustees of Internal Imprvmt Fund	Authorized Agent	Craven Thompson & Assoc.		
Address		Address	3563 NW 53rd Street		
City, State, Zip		City, State, Zip	Fort Lauderdale, FL 33309		
Phone		Phone	954-739-6400		
Email		Email	medge@craventhompson.com		
Proof of Ownership		Authorization Letter	Not Applicable		
Applicant Signature:		Agent Signature:	Mato Color Digitally signed by Matt Edge Date: 2024.01.02 19:03:10-05'00'		

© PARCEL INFORMATION			
Address/General Location Hugh Taylor Birch State Park			
Folio Number(s)	494236000010		
Legal Description (Brief)	A portion of Gov Lot 6, 36-49-42		
City Commission District 2			
Civic Association N/A			

LAND USE INFORMATION			
Existing Use PARK - OPEN SPACE			
Land Use	WATER, CONSERVATION, LOW-M		
Zoning	B-2		
Proposed Applications requesting land use amendments and rezonings.			
Proposed Land Use PARK - OPEN SPACE			
Proposed Zoning B-2			

PROJECT INFORM	ATION	F	Provide project infe	ormation. Circle y	es or no where nc	ted. If item is not a	applicable, indic	ate N/A.
Project Name		FIRE STATION No. 13						
Project Description (Describe in detail)	Application to Plat Fire Station 13 site.							
Estimated Project Cost	\$	\$ (Estimated total project cost including land costs for all new development applications only)			1)			
Affordable Housing	30%	50%	60%	80%	100%	120%	140%	
Number of Units (AMI)								
Affordable Housing	30%	50%	60%	80%	100%	120%	140%	
Number of Units (MFI)								

DEVELOPMENT SERVICES DEPARTMENT URBAN DESIGN AND PLANNING DIVISION

DEVELOPMENT	APPLICATION	FORM
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\smile			
Waterway Use	No		
Flex Units Request	No		
Commercial Flex Acreage	No		
Residential Uses			
Single Family	0		
Townhouses	U		
Multifamily	0		
Cluster/Zero Lot Line	U		
Other	0		
Total (dwelling units)	0		
Unit Mix (dwelling units)	Studio-1 2 3+ Bedroom Bedroom		

Traffic Study Required	No
Parking Reduction	No
Public Participation	No
Non-Residential Uses	
Commercial	
Restaurant	
Office	
Industrial	
Other	FILE STATION
Total (square feet)	8,994 sa ft

PROJECT DIMENSIO	NAL STANDARDS Indicate all required and prop	posed standards for the project. Circle yes or no whe	ere indicatec
	Required Per ULDR	Proposed	
Lot Size (Square feet/acres)	·		
Lot Density (Units/acres)			
Lot Width			
Building Height (Feet)			
Structure Length			
Floor Area Ratio (F.A.R)			
Lot Coverage			
Open Space			
Landscape Area			
Parking Spaces			
SETBACKS (Indicate direction N,S,E,W)	Required Per ULDR	Proposed	
Front []			
Side []			
Corner / Side []			
Rear []			
For projects in Dow	ntown, Northwest, South Andrews, and Uptown Master Plans	to be completed in conjunction with the applicable	items above
Tower Stepback	Required Per ULDR	Proposed	Deviation
Front / Primary Street []			
Sides / Secondary Street []			-
Building Height			-
Streetwall Length			
Podium Height			-
Tower Separation			
Tower Floorplate (square feet)			_
Pesidential Unit Size (minimum)			

AMENDED PROJECT INFO	RIVIATION Provide approved and	proposed amendments for project. Circle yes o	or no where indicate
Project Name			
Proposed Amendment			
Description			
(Describe in detail)			
	Original Approval	Proposed Amendment	Amended
Residential Uses			
(dwelling units)			
Non-Residential Uses			
(square feet)			
Lot Size (Square feet/acres)			
Lot Density (Units/acres)			
Lot Width			
Building Height (Feet)			
Structure Length			
Floor Area Ratio (F.A.R)			
Lot Coverage			
Open Space			
Landscape Area			
Parking Spaces			
Tower Stepback			
Building Height			
Streetwall Length			
Podium Height			
Tower Separation			
Tower Floorplate (square feet)			
Residential Unit Size (minimum)			
Does this amendment require a revision to	the traffic statement or traffic study completed	for the project?	

0							
EXTENSION , DEFERR	Provide information for specific request. Circle approving body and yes or no.						
Project Name							
Request Description							
EXTENSION REQ	JEST DE	EFERRAL REQUEST	APPEAL REQUEST / DE NOVO HEARING				
Approving Body	_Approving Boo	dy	Approving Body				
Original Approval Date	Scheduled Date	Meeting	30 Days from Meeting (Provide Date)				
Expiration Date (Permit Submittal Deadline)	Requested Date	Deferral	60 Days from Meeting (Provide Date)				
Expiration Date (Permit Issuance Deadline)	Previous Defer Granted	rals	Appeal Request				

Development Application Form

	SERVICES DEPARTMENT	URBAN DESIGN AND PLANNING DIVISION		
		DEVELOPMENT APPLICATION FORM		
Requested Extension (No more than 24 months)	Justification Letter Provided	Indicate Approving Body Appealing		
Code Enforcement (Applicant Obtain by Code Compliance Division)		De Novo Hearing Due to City Commission Call-Up		

<u>CHECKLIST FOR SUBMITTAL AND COMPLETENESS</u>: The following checklist outlines the necessary items for submittal to ensure the application is deemed complete. Failure to provide this information will result in your application being deemed <u>incomplete</u>.

\Join	Preliminary Development Meeting completed on the following date: 11/9/21 - Site Plan meeting PROVIDE DATE
	Development Application Form completed with the applicable information including signatures.
\boxtimes	Proof of Ownership warranty deed or tax record including corporation documents and SunBiz verification name, N/A
\mathbb{X}	Address Verification Form applicant contact Devon Anderson at 954-828-5233 or Danderson@fortlauderdale.gov
	Project and Unified Land Development Code Narratives project narrative and the applicable ULDR sections and criteria as described in the specifications for submittal by application type.
	Electronic Files, File Naming, and Documents consistent with the applicable specifications for application type, consistent with the online submittal requirements including file naming convention, plan sets uploaded as single pdf.
\times	Traffic Study or Statement submittal of a traffic study or traffic statement. N/A
\boxtimes	Stormwater Calculations signed and sealed by a Florida registered professional engineer consistent with calculations as described in the specifications for plan submittal for site plan applications.

Water and Wastewater Capacity Request copy of email to Public Works requesting the capacity letter.

OVERVIEW FOR ONLINE SUBMITTAL REQUIREMENTS: Submittals must be conducted through the City's online citizen access portal LauderBuild. No hardcopy application submittals are accepted. Below only highlights the important submittal requirements that applicants must follow to submit online and be deemed complete. View all the requirements at LauderBuild Plan Room.

- Uploading Entire Submittal upload all documents at time the application is submitted to prevent delays in processing.
- File Naming Convention file names must adhere to the City's File Naming Convention.
- Reduce File Size plan sets and other large files must be merged or flattened to reduce file size.
- Plan Sets plan sets like site plans, plats, etc. must be submitted as a single pdf file. Staff will instruct when otherwise.
- **Document Categories** choose the correct document category when uploading.

DRC PROCESS OVERVIEW: The entire development review process flowchart can be found in the <u>Development Application</u> Guide and Instructions document. Below is a quick reference flowchart with key steps in the process to guide applicants.



CONTACT INFORMATION: Questions regarding the development process or LauderBuild, see contact information below.

GENERAL URBAN DESIGN AND PLANNING QUESTIONS	LAUDERBUILD ASSISTANCE AND QUESTIONS
Planning Counter 954-828-6520, Option 5	DSD Customer Service 954-828-6520, Option 1
planning@fortlauderdale.gov	lauderbuild@fortlauderdale.gov

Development Application Form



DESCRIPTION

A PARCEL OF LAND IN GOVERNMENT LOT 6, SECTION 36, TOWNSHIP 49 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID GOVERNMENT LOT 6; THENCE WEST ALONG THE SOUTH LINE OF SAID GOVERNMENT LOT 6, A DISTANCE OF 739.9 FEET TO A POINT, THENCE NORTH AT RICHT ANGLES TO SAID SOUTH LINE OF GOVERNMENT LOT 6, A DISTANCE OF 50 FEET TO THE POINT OF BEGINNING OF THE LANDS HEREIN DESCRIBED, THENCE CONTINUING NORTH ALONG SAID LINE, THAT IS ARIOS HELEN DESCRIBED, HELEN CONTINUE OF GOVERNMENT ALONG SAND LINE, HAN IS AT RICHT ANCLES TO SAND SOUTH LINE OF GOVERNMENT LOT 6, A DISTANCE OF 200 FEET TO A POINT; THENCE WEST AT RICHT ANGLES A DISTANCE OF 200 FEET TO A POINT; THENCE SOUTH AT RICHT ANGLES A DISTANCE OF 200 FEET TO A POINT; THENCE LEAST AT RICHT ANGLES A DISTANCE OF 200 FEET TO THE POINT OF BEGINNING; LESS THE SOUTH 40 FEET THEREOF.

SURVEYOR'S NOTES:

- 2. THIS SURVEY MEETS AND EXCEEDS THE HORIZONTAL AND VERTICAL ACCURACY REQUIREMENTS AS DEFINED IN THIS SUMPLY WEITS AND EXCEEDS THE HORIZONTAL AND VERTICAL ACCURACY REQUIREMENTS AS DETINED IN INVERTIGATION OF THE FLORIDA ADMINISTRATIVE CODE PERTAINING TO THE STANDARDS AND PHARCIES OF FOR PROFESSIONAL SUMPTONS AND AMPERES. THE ACCURACY OF MESUREMENTS AND LINEAR CLOSURE FOUND HEREON SOCIED THAT OF IN 10,000 FEET, PHEMISED UPON THE EXPECTATION THAT THE USE OF THIS THEY OF SUMPEY AND MAY WILL BE FOR THOSE ACTIVITIES THYOLALY COMPUTED IN COMMERCIAL/HAR NEX APRILS. THE ACCURACY OF MESURE AT A DIVISION OF A CLOSED OMMERCIAL/HAR NEX APRILS. THE ACCURACY OF MESURE DI MESUREMENT AND DURING ALL COMPUTED IN THE OF SUMPEY AND MAY WILL BE FOR THOSE ACTIVITIES THYOLALY COMPUTED IN A DIVISION OF A CLOSED. GEOMETRIC FIGURE WAS FOUND TO EXCEED THIS REQUIREMENT.
- 3. THIS SURVEY DOES NOT INCLUDE UNDERGROUND UTILITIES. FOUNDATIONS OR OTHER BURIED ENCROACHMENTS WERE NOT LOCATED IN CONNECTION WITH THIS SURVEY UNLESS OTHERWISE
- 4. THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVO'88), AS MEASURED DUTLING A "TRIMBLE DINI 0.3" DIGITAL LEVEL AS REFERENCED TO A FOOT BRIDGE EDH17-B6066 BEING A FOUND BRASS DISC IN CONCRETE STAMPEO "EDH17 RESET 1985", ELEVATION = 4.56.

5. THE HORIZONTAL CONTROL MEASUREMENTS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN DATUM OF 1983/1990 (NAD 83/90). STATE PLANE COORDINATE SYSTEM (FLORIDA EAST ZONE) AND WERE OBTAINED BY UTILIZING TIRMBLE RYO'R REAL TIME KINDMATICS SYSTEMS. THE ACCURACY OF THE HORZONTIAL CONTROL MEASUREMENTS HAS BEEN VERIFIED BY REDUNDANT MEASUREMENTS. AND ADJUSTIC DURING INCOMPLETING INS SCHERE SOFTWARE. THE ADJUSTIKENT IS BASED ON A RAD ADJUSTIKENT SUBING TRIMULE BUSINESS CHERE SOFTWARE. THE ADJUSTIKENT IS BASED ON A LEAST SQUARE ADJUSTIKENT CALCULATIONS AND MEETS A 95% CONTRDENCE LEVEL TO THE FOLLOWING PROJECT NETWORK CONTROL POINTS, AS ESTABLISHED BY FLORIDA DEPARTIENT OF TRANSPORTATION. THE MAXIMUM HORIZONTAL RESIDUAL ERROR OF 0.03+/-, AND HAVING HORIZONTAL ADJUSTMENT SCALE VALUE WAS CALCULATED TO BE 1.0000338155.

PT#	NORTHINGS	EASTINGS	ELEV.	DESCRIPTION		
BLC2	658195.206	950605.011	7.640	BRASS DISC	STAMPED	"A1A-86-16-C02"
BLC3	659462.471	950726.582	7.483	BRASS DISC	STAMPED	"A1A-86-16-C03"
DBLC6	653260.009	950366.819	7.387	BRASS DISC	STAMPED	"A1A-86-12-C6"

- 6 BEARINGS SHOWN HEREON ARE BASED ON SAID PROJECT NETWORK CONTROL MAP, & REARING OF DEARINGS SHOWIN HEREUN ARE BASED ON SHID PROJECT NEIMORE CONTROL MAR. A BEARING OF NORTH 44'07'45" EAST BEING ESTABLISHED BETWEEN BLC2 AND BLC3. ALL OTHER BEARINGS SHOWN HEREON ARE RELATIVE THERETO.
- 7. TREE TYPES ARE DETERMINED TO THE BEST OF OUR KNOWLEDGE. EXACT SPECIES SHOULD BE DETERMINED BY A LICENSED BOTANIST, DENDROLOGIST OF OTHER PROFESSIONAL WITH SUCH CAPACITY.
- 8. SHEET 1 OF THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1"=50' OR SMALLER, SHEET 2 INTENDED TO BE DISPLAYED AT A SCALE OF 1"=20'. HORIZONTAL FEATURE LOCATIONS ARE TO THE CONTER OF THE SYMBOL AND MAY NOT BE ENLARGED FOR CLARITY AND MAY NOT REPRESENT THE ACTUAL SIZE OR SHAPE OF THE FEATURE.
- 9. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT, NO INFORMATION REGARDING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WAS PROVIDED TO OR PURSUED BY REGRADING EASEMENTS, RIGHTS-OF-WAI, AND/OR OWNERSHIP WAS PROVIDED TO PERTURBATE SURVEY IS THE UNDERSIGNED. ENCOMBRANCES OTHER THAN SHOWN HEREON MAY EVIST. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY. ENCUMBRANCES OTHER THAN SHOWN HEREON MAY EXIST.

10. REFERENCE CRAVEN-THOMPSON AND ASSOCIATES JOB NUMBER 20-0030-001-01

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY AND OTHER PERTINENT DATA SHOWN HEREON, CONFORMS TO THE STANDARDS OF PRACTICE FOR LAND SURVEYND IN THE STATE OF FLORID, AS OUTLINED IN RULES 53-717, (FLORIDA ADMINISTRATIVE CODE) AS ADOPTED BY THE DEPARTMENT OF ADRICULTURE AND CONSUMER SERVICES, BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN SEPTEMBER, 1981, AS AMENDER PURSIANT TO CHAPTER PLAZOZ, FLORIDA STATUES AND THAT SMO SURVEY IS THE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELF AS PREMED UNDER MY DIRECTION.



PUBLIC WORKS ENGINEERING 8 CITY OF I DESCRIPTI SDMH #555 E SURVEY E INVERT ELE REVISE UPDATE REVISE RY RY Ma & ₽ ₽ 10/14/21 10/19/22 09/13/23 DATB NO. ō DESCRIPT Ξ Ю PROJECT # 10918 FIRE STATION #13 COVER SHEET, NOTES, D 2871 E. SUNRISE BLVD CONSTRUCTION Ю HEET NO. ĭĽ 1 H OTAL: 1 . 2 AD FILE: 10918SURV

RAWING FILE NO.

4-XXX-XX

SURVEYOR TODD H. BATES FL PSM NO: 7165 DATE: 04/19/23

ä ä N/A NW

FORT LAUDERDALE WORKS DEPARTMENT RING & ARCHITECTURE 739-6400

954-

TRL:



BROWARD COUNTY PLANNING COUNCIL

THIS IS TO CERTIFY THAT THE BROWARD COUNTY PLANNING COUNCIL APPROVED THIS PLAT SUBJECT TO ITS COMPLIANCE WITH DEDICATION OF RIGHTS-OF-WAY FOR TRAFFICWAYS THIS DAY _, 20____.

BY: CHAIRPERSON

THIS PLAT COMPLIES WITH THE APPROVAL OF THE BROWARD COUNTY PLANNING COUNCIL ON THE ABOVE DATE AND IS APPROVED AND ACCEPTED FOR RECORD THIS ____ DAY OF _____, 20___.

BY: EXECUTIVE DIRECTOR OR DESIGNEE

BROWARD COUNTY FINANCE AND ADMINISTRATIVE SERVICES DEPARTMENT, COUNTY RECORDS DIVISION - MINUTES SECTION

THIS IS TO CERTIFY THAT THIS PLAT COMPLIES WITH THE PROVISIONS OF CHAPTER 177, FLORIDA STATUTES, AND WAS ACCEPTED FOR RECORD BY THE BOARD OF COUNTY COMMISSIONERS OF BROWARD COUNTY, FLORIDA THIS _____ DAY OF _____, 20____,

BY: MAYOR - COUNTY COMMISSION

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

THIS PLAT HAS BEEN REVIEWED FOR CONFORMITY WITH CHAPTER 177, PART I, FLORIDA STATUTES, AND IS APPROVED AND ACCEPTED FOR RECORD.

ROBERTO CHAVEZ DATE PROFESSIONAL SURVEYOR AND MAPPER FLORIDA REGISTRATION NO. LS 7280

RICHARD TORNESE, DIRECTOR DATE FLORIDA PROFESSIONAL ENGINEER REGISTRATION NO. 40263

BROWARD COUNTY RESILIENT ENVIRONMENT DEPARTMENT

THIS PLAT IS APPROVED AND ACCEPTED FOR RECORD THIS _____ DAY OF ______, 20___,

DIRECTOR / DESIGNEE

CITY PLANNING AND ZONING BOARD

THIS IS TO CERTIFY THAT THIS PLAT HAS BEEN APPROVED AND ACCEPTED FOR RECORD BY THE CITY OF FORT LAUDERDALE PLANNING AND ZONING BOARD THIS _____ DAY OF ______, 20_____.

BY: CHAIRPERSON

CITY COMMISSION

THIS IS TO CERTIFY THAT THIS PLAT HAS BEEN APPROVED AND ACCEPTED FOR RECORD BY THE CITY COMMISSION OF THE CITY OF FORT LAUDERDALE, FLORIDA, BY, IN AND BY RESOLUTION NO. ADOPTED BY SAID COMMISSION THIS ____ DAY OF______, 20_____.

CONCURRENCY/IMPACT FEES FOR THE CONSTRUCTION, EXPANSION, AND/OR CONVERSION OF A BUILDING WITHIN THIS PLAT SHALL BE PAID ON THE DATE OF BUILDING PERMIT ISSUANCE.

DAVID R. SOLOMAN CITY CLERK

DATE

CITY ENGINEER

THIS PLAT IS HEREBY APPROVED FOR RECORD BY THE CITY ENGINEER OF THE CITY OF FORT LAUDERDALE, FLORIDA, THIS _____ DAY OF ______, 20_____.

BY:

DANIEL A. REY, CITY ENGINEER FLORIDA P.E. REGISTRATION NO. 81248

FIRE STATION No.13 A PORTION OF GOVERNMENT LOT 6,

SECTION 36, TOWNSHIP 49 SOUTH, RANGE 42 EAST CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA APRIL, 2023

DEDICATION

STATE OF FLORIDA COUNTY OF BROWARD

KNOW ALL MEN BY THESE PRESENTS: THE CITY OF FORT LAUDERDALE, A FLORIDA MUNICIPAL CORPORATION, OWNER OF THE LANDS AS SHOWN AND DESCRIBED HEREON, HAS CAUSED SAID LANDS TO BE SUBDIVIDED AND PLATTED IN THE MANNER SHOWN HEREIN. SAID PLAT TO BE KNOWN AS FIRE STATION NO. 13.

IN WITNESS WHEREOF, THE CITY OF FORT LAUDERDALE HAS CAUSED THESE PRESENTS TO BE SIGNED FOR AN ON ITS BEHALF BY THIS DAY OF_____, 20____.

CITY OF FORT LAUDERDALE, A FLORIDA MUNICIPAL CORPORATION

WITNESS

WITNESS

WITNESS - PRINTED NAME

WITNESS - PRINTED NAME

TITLE:

ACKNOWLEDGEMENT

STATE OF FLORIDA COUNTY OF BROWARD

I HEREBY CERTIFY THAT ON THIS DAY THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE AS ______OF THE CITY OF FORT LAUDERDALE, WHO IS PERSONALLY KNOWN TO ME, OR HAS PRODUCED ______AS IDENTIFICATION, AND WHO EXECUTED THE FOREGOING PLAT AND INSTRUMENT OF DEDICATION AND SEVERALLY ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FREELY AND VOLUNTARILY FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS MY SIGNATURE AND OFFICIAL SEAL THIS ____ DAY OF ______, 20_____,

MY COMMISSION EXPIRES:

NOTARY PUBLIC - STATE OF FLORIDA



PREPARED BY: RAYMOND YOUNG, PSM 5799 CTA PROJECT NO. 20-0030-001-01

OWNER	CITY COMMISSION	COUNTY COMMISSION	COUNTY ENGINEER	COUNTY SURVEYOR	SURVEYOR



DESCRIPTION:

A PARCEL OF LAND IN GOVERNMENT LOT 6, SECTION 36, TOWNSHIP 49 SOUTH, RANGE 42 EAST, BROWARD COUNTY. FLORIDA. DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID GOVERNMENT LOT 6; THENCE WEST ALONG THE SOUTH LINE OF SAID GOVERNMENT LOT 6, A DISTANCE OF 739.9 FEET TO A POINT; AT RIGHT ANGLES TO SAID SOUTH LINE OF GOVERNMENT LOT 6, A DISTANCE OF 50 FEET TO THE POINT OF BEGINNING OF THE LANDS HEREIN DESCRIBED; THENCE CONTINUING NORTH ALONG SAID LINE, THAT IS AT RIGHT ANGLES TO SAID SOUTH LINE OF GOVERNMENT LOT 6, A DISTANCE OF 200 FEET TO A POINT: THENCE WEST AT RIGHT ANGLES A DISTANCE OF 200 FEET TO A POINT: THENCE SOUTH AT RIGHT ANGLES A DISTANCE OF 200 FEET TO A POINT; THENCE EAST AT RIGHT ANGLES A DISTANCE OF 200 FEET TO THE POINT OF BEGINNING: LESS THE SOUTH 40 FEET THEREOF.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE LANDS RECENTLY SURVEYED, SUBDIVIDED AND PREPARED UNDER MY RESPONSIBLE DIRECTION AND SUPERVISION; THAT THE PLAT AND SURVEY DATA SHOWN CONFORMS TO ALL THE APPLICABLE REQUIREMENTS OF CHAPTER 177, FLORIDA STATUTES, AND WITH THE APPLICABLE SECTIONS OF CHAPTER 5J-I7, FLORIDA ADMINISTRATIVE CODE, AS REQUIRED TO COMPLY WITH THE BROWARD COUNTY LAND DEVELOPMENT CODE.

THE PERMANENT REFERENCE MONUMENTS (PRM'S) WERE SET IN ACCORDANCE WITH SECTION 177.091 OF SAID CHAPTER 177 ON THIS _____ DAY OF_____, 202_.

DATE: _____

BY: RAYMOND YOUNG - FOR THE FIRM PROFESSIONAL LAND SURVEYOR AND MAPPER STATE OF FLORIDA REGISTRATION NUMBER 5799 CRAVEN THOMPSON & ASSOCIATES, INC. 3563 NW 53RD STREET, FORT LAUDERDALE, FL, 33309 CERTIFICATE OF AUTHORIZATION NUMBER LB 271

XXX - MP - 23



PLAT NOTES:

I. THIS PLAT IS RESTRICTED TO 16,000 SQUARE FEET OF FIRE STATION.

THIS NOTE IS REQUIRED BY CHAPTER 5, ARTICLE IX, BROWARD COUNTY CODE OF ORDINANCES, AND MAY BE AMENDED BY APPROVAL OF THE BROWARD COUNTY BOARD OF COUNTY COMMISSIONERS. THE NOTATION AND ANY AMENDMENTS THERETO ARE SOLELY INDICATING THE APPROVED DEVELOPMENT LEVEL FOR PROPERTY LOCATED WITHIN THE PLAT AND DO NOT OPERATE AS A RESTRICTION IN FAVOR OF ANY PROPERTY OWNER INCLUDING ANY OWNER OR OWNERS OF PROPERTY WITHIN THIS PLAT WHO TOOK TITLE TO THE PROPERTY WITH REFERENCE TO THIS PLAT.

PLAT BOOK _____ PAGE _____

SHEET 2 OF 2 SHEETS

- 2. THE FOLLOWING NOTE IS REQUIRED BY THE BROWARD COUNTY SURVEYOR PURSUANT TO CHAPTER 177.09I, SUBSECTION (28). FLORIDA STATUTES: PLATTED UTILITY EASEMENTS ARE ALSO EASEMENTS FOR THE CONSTRUCTION. INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES. THIS NOTE DOES NOT APPLY TO PRIVATE EASEMENTS GRANTED TO OR OBTAINED BY A PARTICULAR ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION SHALL COMPLY WITH THE NATIONAL ELECTRIC SAFETY CODE AS ADOPTED BY THE FLORIDA PUBLIC SERVICE COMMISSION.
- 3. NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN, AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.
- 4. ALL FACILITIES FOR THE DISTRIBUTION OF ELECTRICITY, TELEPHONE, AND CABLE SHALL BE INSTALLED UNDERGROUND.
- 5. ANY STRUCTURE WITHIN THIS PLAT MUST COMPLY WITH SECTION 2.1.F DEVELOPMENT REVIEW REQUIREMENTS, OF THE BROWARD COUNTY LAND USE PLAN, REGARDING HAZARDS TO THE AIR NAVIGATION.

SURVEYOR'S NOTES:

I. BEARINGS AND STATE PLANE COORDINATES SHOWN HEREON ARE BASED ON THE NORTH AMERICAN DATUM OF 1983/1990 (NAD 83/90), STATE PLANE COORDINATE SYSTEM (FLORIDA EAST ZONE) AND WERE OBTAINED BY UTILIZING "TRIMBLE RIO" REAL TIME KINEMATICS SYSTEMS. THE ACCURACY OF THE HORIZONTAL CONTROL MEASUREMENTS HAS BEEN VERIFIED BY REDUNDANT MEASUREMENTS AND ADJUSTED USING TRIMBLE BUSINESS CENTER SOFTWARE. THE ADJUSTMENT IS BASED ON A LEAST SQUARE ADJUSTMENT CALCULATIONS AND MEETS A 95% CONFIDENCE LEVEL TO THE FOLLOWING PROJECT NETWORK CONTROL POINTS, AS ESTABLISHED BY FLORIDA DEPARTMENT OF TRANSPORTATION. THE MAXIMUM HORIZONTAL RESIDUAL ERROR OF 0.03+/-. AND HAVING HORIZONTAL ADJUSTMENT SCALE VALUE WAS CALCULATED TO BE 1.0000338155.

PT#	NORTHINGS	EASTINGS	DESCRIPTION
BLC2	658/95.206	<i>950605.011</i>	BRASS DISC STAMPED "AIA-86-I6-C02"
BLC3	659462.471	<i>950726.582</i>	BRASS DISC STAMPED "AIA-86-I6-C03"
DBLC6	653260.009	950366.819	BRASS DISC STAMPED "AIA-86-I2-C6"

BEARINGS SHOWN HEREON ARE BASED ON THE SOUTH LINE OF THE SOUTHEAST ONE-QUARTER (SEI/4) OF SECTION 36-49-42 WHICH BEARS NORTH 88°I3'45" EAST. ALL OTHER BEARINGS SHOWN HEREON ARE RELATIVE THERETO.



TEL.: (954) 739–6400 FAX: (954) 739–6409 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

XXX - MP - 23

PREPARED BY: RAYMOND YOUNG, PSM 5799

CTA PROJECT NO. 20-0030-001-01

CITY OF FORT LAUDERDALE FIRE STATION #13 REPLACEMENT



JANUARY 2022

CTA PROJECT NO. 20-0030-001-01



CRAVEN THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 3563 N.W. 53rd Street, Fort Lauderdale, Florida 33309 Tel.: (954) 739-6400 STORMWATER CALCULATIONS



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1.0 - PROJECT LOCATION, INTRODUCTION & HISTORY

The Fire Station #13 project site is a 0.74 AC site located west of Florida State Road A-1-A, east of the Sunrise Drawbridge and south of Birch State Park, within the City of Fort Lauderdale. The project includes the demolition of an existing Fire Station and the reconstruction of a new Fire Station facility with adjacent parking lot, potable water, sanitary sewer service and various other amenities. See below Aerial Exhibit and attached Site Plan and Engineering Plans for details.



Fire Station #13 Aerial Exhibit & Location Map





2.0 - EXISTING STORMWATER SYSTEM ASSESSMENT

OVERVIEW

The existing fire station drainage system is currently comprised of a few interconnected catch basins with two (2) connections to the FDOT Stormwater system located along E Sunrise Boulevard. The existing system does not currently have any type of control structure limiting discharge to the FDOT system.

We also investigated and researched the existing topography, to further gather and analyze the existing elevations on site.

3.0 - PROPOSED STORMWATER SYSTEM DESIGN OUTLINE

After analyzing the existing site conditions, as-builts and geotechnical report, we have outlined a summary below of the proposed stormwater improvements and design elements for Fire Station #13.

PROPOSED STORMWATER IMPROVEMENTS

The proposed Fire Station #13 project stormwater system consists of a collection drainage system retaining the water on-site to meet the water quality elevation, with a collection of catch basins, dry detention areas, underground storage areas, and control structure holding water on-site until water quality elevation is met.

A detailed summary of the stormwater system is described below.

WATER QUALITY DESIGN SUMMARY

The water quality treatment volume is provided for the project by utilizing dry detention facilities & exfiltration trenches. The required water quality for the site is 0.122 AC-FT (1.463 AC-IN) and the required water quality treatment volume is met at an elevation of 4.0 NAVD without utilizing the dry detention credit. The provided water quality treatment volume is 0.144 AC-FT (1.724 AC-IN) without considering dry detention credit and 0.189 AC-FT (2.267 AC-IN) considering a 50% dry detention credit. There are a total of three (3) dry detention facilities proposed, with a bottom elevation of 3.00 NAVD and a top of 6.75 NAVD.

The project provides 250 LF of 10' wide X 5' high exfiltration trench with a water quality treatment volume of 0.098 AC-FT (1.181 AC-IN) provided at elevation 4.0. A control structure holds back all water treatment volume up to elevation 4.0 NAVD prior to discharge into the underground storage facility and outfall off-site into the FDOT stormwater conveyance system.

WATER QUANTITY DESIGN SUMMARY

In addition to water quality the provided through the proposed stormwater system, an underground stormwater facility is proposed to increase the site's underground water storage prior to discharge off-site. A total of 4,920 CF (0.113 AC-FT) of underground storage is provided utilizing chambers manufactured by Stormtech (ADS) (SC-740 Chamber). There are 60 chambers provided, which include a 12" rock sub base providing a total storage of 82 CF per chamber.

INTERCONNECTION OF STORMWATER SYSTEM & SITE OUTFALL

In addition to the water quality and quantity provided on-site, the two (2) existing off-site connections are to be consolidated into one (1) outfall connection located within the new driveway





to the existing structure labeled STM MH #555 within the FDOT Right-Of-Way. This existing 15" connection is to remain and through the use of retaining walls and installation of a 4'X8' control structure, off-site discharge is held back under the pre-development discharge rate. The control structure is designed with a 12" long by 24" deep rectangular weir which is set at elevation 5.0 NAVD, and a 4" diameter orifice set at elevation 4.0 NAVD to allow discharge off-site only after water quality requirement for the site is achieved. Refer to the Pre-Development vs. Post-Development Maximum Stage & Discharge Summary Table outlining the results of the ICPR Model.

4.0 – STORMWATER REPORT SUMMARY

In summary, the proposed improvements outlined in Section 3.0 provide adequate stormwater water quality and quantity improvements to serve the site as required by the SFWMD & FDOT criteria. In order to properly determine the result of the improvements, an ICPR model was prepared of the pre-development stormwater infrastructure and the post-development stormwater infrastructure and site improvements. This model was created to demonstrate and quantify how these improvements will serve site during the required storm events.

In preparation of the pre-development model, the survey data points were used to create an existing surface and then imported into the ICPR software and analyzed, refer to APPENDIX A-PRE-DEV: OVERALL PRE-DEVELOPMENT DRAINAGE AREA MAP. The pre-development model includes the existing off-site connection to the Sunrise Boulevard FDOT Stormwater system and quantifies the pre-development discharge to the FDOT stormwater system.

In preparation of the post-development model, the pre-development surface was used as a baseline surface and the limits of disturbance were created with the proposed grading surface elevations to create a finished grade surface. This finished grade surface was then imported into the ICPR software the same one basin was created and analyzed with the new surface data, refer to APPENDIX A-POST-DEV: OVERALL POST-DEVELOPMENT DRAINAGE AREA MAP showing the Drainage Basin, proposed improvements, and schematic off-site connection. The DAM Map takes into account the proposed improvements, additional above and below ground stormwater facility storage areas.

In summary, the post-development improvements provide additional water quality, storage, and improvements to adequately serve the post-development conditions, as demonstrated by the ICPR modeling data and results. The required stages were met and the off-site discharge to the Sunrise Boulevard (FDOT) stormwater system was reduced in the post-development conditions. Please refer to APPENDIX B: PRE-DEVELOPMENT & POST-DEVELOPMENT MAXIMUM STAGE SUMMARY & APPENDIX C: PRE-DEVELOPMENT & POST-DEVELOPMENT MAXIMUM STAGE SUMMARY. The reduction results are summarized below, with the amount of reduction depicted in green:

DIFFERENCE IN STAGES (POST-DEVELOPMENT - PRE-DEVELOPMENT)											
10 YEAR	- 24 HOUR	25 YEAR	- 72 HOUR	100 YEAR - 72 HOUR							
SUB-BASIN	MAXIMUM		MAXIMUM		MAXIMUM						
	STAGE (FT)	SOB-BASIN	STAGE (FT)	SOR-RASIN	STAGE (FT)						
SITE	3.31	SITE	1.29	SITE	1.67						



DIFFERENCE IN PEAK FLOW (POST-DEVELOPMENT - PRE-DEVELOPMENT)										
10 Y	′EAR - 24 HOUR	25 Y	EAR - 72 HOUR	100 YEAR - 72 HOUR						
to node	PEAK DISCHARGE (CFS)	to node	PEAK DISCHARGE (CFS)	to node	PEAK DISCHARGE (CFS)					
FDOT	-2.59	FDOT	-0.55	FDOT						

The detailed ICPR modeling input data and model information report are included in the report as APPENDIX F: ICPR INPUT DATA. Also included as APPENDIX G: EXHIBITS are all the backup data and research information gathered for the project, including the following:

- Exhibit #1 Proof of Ownership
- Exhibit #2 Location Sketch
- Exhibit #3 USGS Location Map
- Exhibit #4 USDA SCS Map
- Exhibit #5 FEMA Map
- Exhibit #6 Broward County Rainfall, FDOT Rainfall& NOAA Precipitation Data
- Exhibit #7 Broward County Future Wet Season Water Table Exhibit
- Exhibit #8 Geotechnical Report





APPENDIX A: OVERALL PRE-DEVELOPMENT DRAINAGE AREA MAP







APPENDIX B: OVERALL POST-DEVELOPMENT DRAINAGE AREA MAP





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APPENDIX C: PRE-DEVELOPMENT & POST-DEVELOPMENT AREA SUMMARY & WATER QUALITY CALCULATIONS



(1)		(FIRE STATION 13 CITY OF FORT LAUDERDALE STORMWATER CALCULATIONS			Designed By: Checked By: Date:	MR ADS 1/25/2022
<u>I.</u>	<u>EXISTI</u>						
	1	Existing Building	sf	0.174 ac.	23.71%		
	2	Existing Impervious	sf	0.390 ac.	53.13%		
	3	Existing Pervious	sf	0.170 ac.	23.16%		
		Existing Calculated Total		0.734 ac.	100%		
	Total overall impervious surface =			0.564	100.00%		



FIRE STATION 13 PRE-DEVELOPMENT DRAINAGE CALCULATIONS

Designed By: MR Checked By: ADS Date: 1/25/2022

	PRE DEVELOPMENT									
BASIN	so	DIL CLASSIFICATION	HYDROLOGIC SOIL GROUP	RUNOFF CURVE NUMBERS	AREA	CN X AREA	CURVE NUMBER (WEIGHTED)			
SITE							BASIN TOTAL AREA (AC)			
				CN (TABLE 2.2 - USGS TR-55)			SITE 0.734			
	OPEN SPACE				AREA (AC)					
		GOOD CONDITION (GRASS > 75%)	A	49	0.174	8.526	CN (WEIGHTED) 86			
	IMPERVIOUS									
		PAVED AREAS / ROOFS	A	98	0.56	54.88				

CURVE NUMBER & SOIL CLASSIFICATION CHART



FIRE STATION 13 POST-DEVELOPMENT DRAINAGE CALCULATIONS

Designed By: MR Checked By: ADS Date: 1/25/2022

POST DEVELOPMENT										
BASIN	sc)IL CLASSIFICATION	HYDROLOGIC SOIL GROUP	RUNOFF CURVE NUMBERS	AREA	CN X AREA	CURVE NUMBER (WEIGHTED)			
SITE							BASIN TOTAL AREA (AC)			
				CN (TABLE 2.2 - USGS TR-55)			SITE 0.734			
	OPEN SPACE				AREA (AC)					
	1	GOOD CONDITION (GRASS > 75%)	А	49	0.109	5.341	CN (WEIGHTED) 91			
	IMPERVIOUS	PAVED AREAS / ROOFS	А	98	0.625	61.25				

CURVE NUMBER & SOIL CLASSIFICATION CHART

			FIRE STATION	N 13			Designed By:	MR
			CITY OF FORT LAU	DERDALE			Checked By:	ADS
			STORMWATER CALC	ULATIONS			Date:	1/25/2022
<u>I.</u>	PROPC	DSED LAND USE:						
	1	Proposed Buildings =	8452.89	sf	0.194 ad	26.42%		
	2	Proposed Sidewalk =	2213.4	sf	0.051 ad	c. 6.92%		
	3	Proposed Concrete (Heavy Duty) =	9023.23	sf	0.207 ad	28.21%		
	4	Proposed Asphalt (Parking) =	7522.05	sf	0.173 a	23.51%		
	5	Proposed Landscape =	4780.02	st	0.110 ad	c. 14.94%		
		Total =	31001 50		0 73/ 9	100%		
			51551.55		U.7 34 d			
	Tot	al overall impervious surface =	27211.57		0.625 a	85.06%		
<u>II.</u>	WATER	R QUALITY CRITERIA:						
	~							
	Qua	ality standards shall be provided during a	a 3 year, 1 hour storm ev	vent as follow	WS:			
	1	If a wet detention system, then which	ver is the greater of the	following				
	1.	a. The first inch of runoff from the	entire project site	ionowing.				
		b. The amount of 2.5 inches time	es the percent impervious	s for the proi	ect site.			
				p,				
	2.	Exfiltration trench shall provide the volu	ume required for the wet	detention s	ystem.			
<u>III.</u>	WATER	R QUALITY CALCULATIONS:						
	4	Compute the first inch of supoff from th	o optiro dovolanad s==!-	ot oito				
	٦.		ie entire developed proje		y 1.	1 foot / 12 inches)	
		$= 0.061 \text{ ac_ft for the first inch}$	of runoff pl	aues /	~ (1)	
			<u>orranon</u> pr					
	2.	Compute 2.5 inches times the percent	impervious for the deve	loped projec	t site:			
		a. Site area for water quality perv	vious / impervious calcula	ations only:				
		= Total Project - (Lake A	Area + Buildings)	-				
		= 0.734 acres	- (0.000 a	acres +	0.194 acres)		
		= <u>0.540</u> acres of de	veloped site area for w	ater quality	calculations			
		b. Impervious area for water qua	lity pervious / impervious	calculations	s only:			
		= Site area for water qua	anty - Pervious area)	0.440				
		= 0.540 acres	- norvious area for weta	U.TTU a r quality act	aulations			
		- <u>0.451</u> acres of Im		quality cal	culations			
		c. Percentage of impervious area	a for water quality:					
		= Impervious area for wa	ater quality / Site area for	or water qua	lity x 100%			
		= 0.431 acres	/	0.540 a	acres	x 100%		
		= <u>79.69</u> <u>% Impervio</u>	us					
		d. For 2.5 inches times the perce	ntage of impervious area	a:				
		= 2.5 inches	Х	79.69	%			
		= <u>1.992</u> inches to b	e treated					
		e Compute volume required for	quality detantion:					
		= Inches to be treated Y	quality ueterition: (Total Site Area - Lake	Area)				
		= 1 992 inches		0 734 =	acres -	0.000 acres	x (1 foot / 12 inche	es)
		= 0.122 ac-ft require	ed for detention storag	e		0.000 40103)		,
				-				
		The first inch of runoff from the entire of	developed site =			0.061 ac-ft		
		2.5 inches times the percentage of imp	pervious area =			0.122 ac-ft		
			Volume of	0.122 a	ac-ft controls			
		Volume Desuited Utilizies 50		1.463 a	ac-in controls			
			(Dry Detention Credit	0.061 8	ac-II			
			-0,	0.732 8	ac-111			

Volume of	0.122	
	1.463	ac-in controls
Volume Required Utilizing 50% Dry Detention Credit	0.061	ac-ft
(DRY DETENTION UTILIZED)	0.732	ac-in

IV. EXFILTRATION TRENCH CALCULATIONS:

WATER QUALITY

- 1. Design Formula: $L = 2^{(0.5^{Vwq} + Vadd)} (K((H2^{W}) + (2^{H2^{Du}}) (Du^{2}) + (2^{H2^{Du}})) + (1.39x10^{4^{W}}W^{Du}))$
- 2. Design Information:

	Weir Needed in ET System?		YES				
	Weir Elevation		4.00				
	V _{wq} = Water Quality Vol. to be Exfiltrated:		1.11	ac-in			
	V _{add} = Add. Storage Vol. in 1 hour (up to 3.28"xSite - V _{wq}):		0.13	ac-in			
	W = Trench Width:		10.00	ft.			
	K = Hydraulic Conductivity:		2.480E-05	cfs/sq-ft pe	er ft head		
	H2 = Depth of Water Table:		2.50	ft.			
	Du = Non-Saturated Trench Depth:		3.00	ft.			
	Ds = Saturated Trench Depth:		2.00	ft.			
	Total Trench Depth:		5.00	ft.			
3.	Exfiltration Trench (Vwq & Vadd)	Required:	<u>213</u>	<u>ft.</u>			
4.	Exfiltration Trench Provided:		<u>237</u>	<u>ft.</u>			
5.	Exfiltration Trench WQ/Storage Vol Required:		1.230	<u>ac-in</u>	or	<u>0.103</u> ac-	ft



Lowest Inlet
Asphalt + Base Thickness
Select Backfill
Top of Trench (Top of Pea Gravel)
Pea Gravel
Pipe Cover
Weir Elevation (if applicable)
Top of Pipe
Pipe Size
Pipe Thickness
Invert of Pipe
Pipe Bed
Bottom of Trench
Water Table / Control Water Elev.

v. STAGE STORAGE CALCULATIONS:

1. Exfiltrated Volume Volume=

0.103 ac-ft

Exfiltrated Volume				
(Assuming Linear Progression)				
Stage (ft) Storage (ac-ft)				
1.5	0.000			
2	0.021			
2.5	0.041			
3	0.062			
3.5	0.082			
4	0 103			

EXFILTRATION TRENCH VOLUME PROVIDED			
STANDARD: 1.230 ac-in			
	0.103	ac-ft	

2



FIRE STATION 13 Designed By: MR WATER QUALITY PROVIDED Checked By: ADS STORMWATER CALCULATIONS Date: 1/25/2022

WATER QUALITY PROVIDED SUMMARY TABLE

ТҮРЕ	NAME	WATER QUALITY PROVIDED WITHOUT CREDIT (AC-FT)	WATER QUALITY CREDIT	WATER QUALITY PROVIDED WITH CREDIT (AC-FT)
DETENTION AREA	DET-1	0.022	50%	0.043
DETENTION AREA	DET-2	0.017	50%	0.034
DETENTION AREA	DET-3	0.006	50%	0.013
EXFIL	EXFIL-TOTAL	0.103	0%	0.103
SUBTOTAL		0.148		0.193

Water Quality Control Elevation = 4.0 (Top of Weir Elevation to Underground Storage Tanks)

WATER QUALITY VOLUME REQUIRED WITHOUT 50% RETENTION CREDIT	0.122 AC-FT 1.463 AC-IN
WATER QUALITY VOLUME PROVIDED	0.148 AC-FT
WITHOUT 50% RETENTION CREDIT	1.773 AC-IN
WATER QUALITY PROVIDED	0.193 AC-FT
WITH 50% RETENTION CREDIT	2.316 AC-IN



FIRE STATION 13 CITY OF FORT LAUDERDALE STORMWATER CALCULATIONS

Designed By: M Checked By: AE Date: 1/25/

MR ADS 1/25/2022

DET-1

DRY DETENTION FACILITY WATER QUALITY VOLUME

Water Quality Control Elevation = 4.0 (Top of Weir Elevation to Underground Storage Tanks)

Total Facility Area	946	SF	0.022	AC
Facility Area Bottom	946	SF	0.022	AC
Facility Area Sides	-	SF	0.000	AC

Facility Area Depth (ft)	Facility Area (AC)	Vertical Volume (AC-FT)
1.00	0.022	0.022

Bottom Area

TOTAL VOLUME PROVIDED IN FACILITY:

TOTAL	0.022	AC-FT
SIDES	0.000	AC-FT
BOTTOM	0.022	AC-FT

Slope	Rise
	Angle
2:1	63.43
3:1	71.56
4:1	75.96
5:1	78.69
6:1	80.54



TOTAL VOLUME PROVIDED WITH 50% DRY DETENTION CREDIT WQprov X 2.00 (For 50% Credit)

TOTAL	0.043	AC-FT



FIRE STATION 13 CITY OF FORT LAUDERDALE STORMWATER CALCULATIONS

Designed By: MR Checked By: ADS Date: 1/25/2022

DET-2

DRY DETENTION FACILITY WATER QUALITY VOLUME

Water Quality Control Elevation = 4.0 (Top of Weir Elevation to Underground Storage Tanks)

Total Facility Area	749	SF	0.017	AC
Facility Area Bottom	749	SF	0.017	AC
Facility Area Sides	-	SF	0.000	AC

Facility Area Depth (ft)	Facility Area (AC)	Vertical Volume (AC-FT)
1.00	0.017	0.017

Bottom Area

TOTAL VOLUME PROVIDED IN FACILITY:

BOTTOM	0.017	AC-FT
SIDES	0.000	AC-FT
TOTAL	0.017	AC-FT







FIRE STATION 13 CITY OF FORT LAUDERDALE STORMWATER CALCULATIONS

Designed By: Checked By: Date: 1/2

MR ADS 1/25/2022

DET-3

DRY DETENTION FACILITY WATER QUALITY VOLUME

Water Quality Control Elevation = 4.0 (Top of Weir Elevation to Underground Storage Tanks)

Total Facility Area	820	SF	0.019	AC
Facility Area Bottom	205	SF	0.005	AC
Facility Area Sides	615	SF	0.014	AC

Facility Area Depth (ft)	Facility Area (AC)	Vertical Volume (AC-FT)
0.50	0.005	0.002

Bottom

VOLUME PROVIDED IN SIDES & SWALE (4:1 SLOPE)

	Elevation	Horiz Dist / Elev (Feet)	Area (Acres)	Linear Volume (Acre-FT)
	3.50	0.00	0.000	0.000
_	3.75	1.00	0.007	0.001
Water Quality Elevation	4.00	2.00	0.014	0.004

TOTAL VOLUME PROVIDED IN DETENTION:

BOTTOM	0.002	AC-FT
SIDES	0.004	AC-FT
TOTAL	0.006	AC-FT

Slope	Rise	
	Angle	Horizontal Dist
2:1	63.43	
3:1	71.56	Ois
4:1	75.96	तु Rise Angle
5:1	78.69	Itio
6:1	80.54	e l
		-



APPENDIX D: PRE-DEVELOPMENT & POST-DEVELOPMENT MAXIMUM STAGE & DISCHARGE SUMMARY





FIRE STATION 13 APPENDIX D: STORMWATER CALCULATIONS

Designed By: MR Checked By: ADS Date: 1/24/2022

PRE DEVELOPMENT & POST DEVELOPMENT MAXIMUM STAGE & DISCHARGE SUMMARY

MAXIMUM STAGE (FT)				
STORM EVENT	PRE-DEV.	POST-DEV.		
3 YR - 24 HR	1.12	4.27		
5 YR - 24 HR	1.2	4.37		
10 YR - 24 HR	1.34	4.65		
100 YR - 24 HR				
25 YR - 72 HR	4.5	5.79		
100 YR - 72 HR	5.97	7.64		

MAXIMUM DISCHARGE (CFS)			
PRE-DEV.	POST-DEV.		
2.29	0.22		
2.55	0.31		
3	0.41	1	
3.28	2.73]	
		ZERO DISCHAR	
	M DISCHARGE PRE-DEV. 2.29 2.55 3 3.28 	PRE-DEV. POST-DEV. 2.29 0.22 2.55 0.31 3 0.41 3.28 2.73	

DIFFERENCE IN STAGES (POST DEVELOPMENT - PRE DEVELOPMENT)				
SUB-BASIN	REDUCTION (FT)	INCREASE (FT)		
3 YR - 24 HR	-	3.15		
5 YR - 24 HR	-	3.17		
10 YR - 24 HR	-	3.31		
100 YR - 24 HR	-	-		
25 YR - 72 HR	-	1.29		

DIFFERENCE IN DISCHARGE (POST DEVELOPMENT - PRE DEVELOPMENT)					
SUB-BASIN REDUCTION (CFS) INCREASE (CFS)					
3 YR - 24 HR	2.07	-			
5 YR - 24 HR	2.24	-			
10 YR - 24 HR	2.59	-			
100 YR - 24 HR					
25 YR - 72 HR	0.55	-			



APPENDIX E: ICPR - MAX STAGE & PEAK OFF-SITE RESULTS



Link Min/Max Conditio	ns with Times [POST-DE	[V]									
Link Name	Sim Name	Max Flow [cfs]	Min Flow (cfs)	Min/Max Delta Flow [cfs]	Max Us Velocity (fps)	Max Ds Velocity [fps]	Time to Max Flow [hrs]	Time to Min Flow (hrs)	Time to Min/Max Delta Flow (hrs)	Time to Max Us Velocity (hrs)	Time to Max Ds Velocity (hrs)
CU-SITE-EXFIL	10 YR - 24 HR	1.62	-0.40	-0.14	1.32	1.32	11.8082	12.1757	9.3730	11.8082	11.8082
DS-SITE-FDOT - Pipe	10 YR - 24 HR	0.41	0.00	-0.26	0.42	0.33	13.4145	0.0000	17.8017	13.4145	13.4145
DS-SITE-FDOT -	10 YR - 24 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
Weir: 1											
DS-SITE-FDOT -	10 YR - 24 HR	0.29	0.00	0.00	3.34	3.34	14.0593	0.0000	11.8378	14.0593	14.0593
Weir: 2											
DS-SITE-UST - Pipe	10 YR - 24 HR	2.76	-0.12	-0.28	2.25	2.25	12.0915	17.6842	12.3571	12.0915	12.0915
DS-SITE-UST - Weir:	10 YR - 24 HR	2.98	-0.10	-0.09	2.30	2.30	12.0865	16.3592	16.3592	12.0866	12.0866
1											
CU-SITE-EXFIL	100 YR - 72 HR	1.31	0.00	-0.12	1.07	1.07	59.7763	9.8480	25.4611	59.7763	59.7763
DS-SITE-FDOT - Pipe	100 YR - 72 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
DS-SITE-FDOT -	100 YR - 72 HR	0.07	0.00	0.04	0.07	0.07	59.7311	0.0000	60.3670	59.6671	59.6671
Weir: 1											
DS-SITE-FDOT -	100 YR - 72 HR	0.06	0.00	0.01	1.24	1.24	52.9625	0.0000	54.1872	52.9739	52.9739
Weir: 2											
DS-SITE-UST - Pipe	100 YR - 72 HR	2.11	-0.05	0.33	1.72	1.72	59.7322	67.9916	59.3520	59.7322	59.7322
DS-SITE-UST - Weir:	100 YR - 72 HR	4.90	0.00	1.68	0.98	0.98	59.7311	67.9949	59.7311	59.7311	59.7311
1											
CU-SITE-EXFIL	25 YR - 72 HR	1.16	-0.28	0.11	0.95	0.95	59.7780	60.2897	30.6657	59.7780	59.7780
DS-SITE-FDOT - Pipe	25 YR - 72 HR	2.73	-0.05	-0.26	2.22	2.22	60.1442	47.4927	70.5428	60.1442	60.1442
DS-SITE-FDOT -	25 YR - 72 HR	2.24	0.00	0.00	2.84	2.84	60.1367	0.0000	60.0009	60.1367	60.1367
Weir: 1											
DS-SITE-FDOT -	25 YR - 72 HR	0.49	-0.03	0.00	5.77	5.77	60.1281	48.0029	54.6414	60.1281	60.1281
Weir: 2											
DS-SITE-UST - Pipe	25 YR - 72 HR	1.44	-0.49	-0.33	1.18	1.18	59.7747	60.2876	60.1191	59.7747	59.7747
DS-SITE-UST - Weir:	25 YR - 72 HR	1.52	-0.45	0.22	0.91	0.91	59.7721	60.3468	60.1191	54.1841	54.1841
1											
CU-SITE-EXFIL	3 YR - 24 HR	1.35	-0.12	-0.14	1.10	1.10	11.9326	12.2849	10.0722	11.9326	11.9326
DS-SITE-FDOT - Pipe	3 YR - 24 HR	0.22	0.00	0.18	0.23	0.18	15.8939	20.6781	15.8939	15.8939	15.8939
DS-SITE-FDOT -	3 YR - 24 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
Weir: 1											
DS-SITE-FDOT -	3 YR - 24 HR	0.12	0.00	0.00	1.58	1.58	16.0820	0.0000	12.0330	16.0849	16.0849
Weir: 2											
DS-SITE-UST - Pipe	3 YR - 24 HR	0.97	-0.01	-0.23	0.79	0.79	12.1809	16.5197	13.3063	12.1809	12.1809
DS-SITE-UST - Weir:	3 YR - 24 HR	1.09	-0.01	0.05	1.65	1.65	12.1752	16.5212	14.0172	12.1754	12.1754
1											
CU-SITE-EXFIL	5 YR - 24 HR	1.47	-0.26	-0.18	1.20	1.20	11.9026	12.2350	9.5316	11.9026	11.9026
DS-SITE-FDOT - Pipe	5 YR - 24 HR	0.31	0.00	-0.27	0.32	0.25	15.0779	21.9548	15.0793	15.0779	15.0779
DS-SITE-FDOT -	5 YR - 24 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
Weir: 1											
DS-SITE-FDOT -	5 YR - 24 HR	0.18	0.00	0.00	2.13	2.13	12.1254	0.0000	11.9493	12.1254	12.1254
Weir: 2											
DS-SITE-UST - Pipe	5 YR - 24 HR	1.65	-0.05	-0.24	1.35	1.35	12.1302	17.0460	12.7012	12.1302	12.1302
DS-SITE-UST - Weir:	5 YR - 24 HR	1.83	-0.03	-0.08	1.96	1.96	12.1254	17.0476	12.9620	12.1256	12.1256
1											

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RESULTS Fort Lauderdale Fire Station No. 13

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow	Max Us Velocity [fps]	Max Ds Velocity [fps]	Time to Max Flow	Time to Min Flow	Time to Min/Max	Time to Max Us	Time to Max Ds
				[cfs]			[hrs]	[hrs]	Delta Flow [hrs]	Velocity [hrs]	Velocity [hrs]
CU-SITE-FDOT15	10 YR - 24 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
(S30)											
CU-SITE-FDOT15	10 YR - 24 HR	3.00	0.00	0.04	2.50	4.26	12.0028	0.0000	5.3027	12.0159	12.0028
(S38)											
CU-SITE-FDOT15	100 YR - 72 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
(S30)											
CU-SITE-FDOT15	100 YR - 72 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
(S38)											
CU-SITE-FDOT15	25 YR - 72 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
(S30)											
CU-SITE-FDOT15	25 YR - 72 HR	3.28	-0.03	-0.10	2.67	2.67	60.0686	22.7662	35.7508	60.0686	60.0686
(S38)											
CU-SITE-FDOT15	3 YR - 24 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
(S30)											
CU-SITE-FDOT15	3 YR - 24 HR	2.29	0.00	-0.04	2.26	3.92	12.0086	0.0000	5.7111	12.0345	11.9633
(S38)											
CU-SITE-FDOT15	5 YR - 24 HR	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.0000	0.0000
(S30)											
CU-SITE-FDOT15	5 YR - 24 HR	2.55	0.00	-0.04	2.34	4.03	12.0084	0.0000	5.3777	12.0116	12.0182
(S38)											



APPENDIX F: ICPR RESULTS - INPUT DATA



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ent: titon: 100 YR - 72 HR Scenario: POST-DEV Run Date/Time: 12/17/2021 1:19:41 PM. Program Version: ICPR4 4.07.08 Ceneral Run Mode: Normal <u>Ceneral</u> Run Mode: Normal <u>Vear Month Day Hour [hr]</u> Start Time: 0 0 0 0 0 0.0000 End Time: 0 0 0 0 0 72.0000 End Time: 60.0000 0.1000 900.0000 Max Calculation Time: 60.0000 0.1000 900.0000 Max Calculation Time: 60.0000 0.1000 900.0000 Max Calculation Time: 70 0.000 0.000 900.0000 Max Calculation Time: 70 0.000 0.000 900.0000 Max Calculation Time: 70 0.000 0.000 900.0000	Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance: Max dZ: Link Optimizer Tol: Edge Length Option: Dflt Damping (2D): Min Node Srf Area (2D):	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0001 ft Automatic 0.0050 ft 100 ft2	Tolerances & Options	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Mamut: Storm Duration: Dflt Damping (1D): Min Node Srf Area (TD):	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2
ttion: 100 YR - 72 HR Scenarie: POST-DEV Run Date/T17/2021 1:19:41 PM Program Version: ICPR 4 4.07.08 General Run Mode: Normal Year Month Day Hour [hr] Start Time: 0 0 0.0000 End Time: 0 0 0 0.0000 End Time: 0 0 0 0.0000 End Time: 0 0 0 0.0000 Min Calculation Time: 60.0000 0.1000 900.0000 900.0000 Max Calculation Time: 60.0000 0.1000 900.0000 900.0000 Max Calculation Time: 60.0000 0.1000 900.0000 900.0000 Untput Time Increments	Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance: Max dZ: Link Optimizer Tol: Edge Length Option: Dflt Damping (2D): Min Node Srf Area (2D): Energy Switch (2D):	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0001 ft Automatic 0.0050 ft 100 ft2 Energy	Tolerances & Options	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Mame: Rainfall Mame: Storm Duration: Dflt Damping (1D): Min Node Srf Area (1D): Energy Switch (1D):	24.0000 hr False Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy
ttion: 100 YR - 72 HR Scenario: POST-DEV Run Date/Time: 12/17/2021 1:19:41 PM Program Version: ICPK4 4.07.08 General Run Mode: Normal Year Month Day Hour [hr] Start Time: 0 0 0.0000 End Time: 0 0 0 0.0000 End Time: 0 0 0 0.0000 End Time: 0 0 0 0.0000 Min Calculation Time: 60.0000 0.1000 900.0000 Max Calculation Time: 60.0000 0.1000 900.0000 Max Calculation Time: 900.0000 900.0000 900.0000	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: d2 Tolerance: Max d2: Link Optimizer Tol: Edge Length Option: Dflt Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0001 ft Automatic 0.005 ft 100 ft2 Energy	Tolerances & Options	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dflt Damping (1D): Min Node Srf Area (1D): Energy Switch (1D):	24.0000 hr False Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy
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Year Month Day Hour [hr] Start Time: 0 0 0 0.0000 End Time: 0 0 0 0 72.000 Min Calculation Time: 60.0000 0.1000 900.0000 900.0000 Max Calculation Time: 60.0000 0.1000 900.0000 900.0000 Max Calculation Time: 60.0000 0.1000 900.0000 900.0000 Utput Time Increments	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance: Max dZ: Link Optimizer Tol: Edge Length Option: Dflt Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08	Tolerances & Options	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dfit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D):	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy
Start Time: 0 0 0 0.0000 End Time: 0 0 0 0.0000 End Time: 0 0 0 72.000 Min Calculation Time: 60.0000 0.1000 900.0000 900.0000 Max Calculation Time: 60.0000 0.1000 900.0000 900.0000 Max Calculation Time: 0 0.0000 900.0000 900.0000 Output Time Increments Hydrology Month Day Hour [hr] Time Increment [min]	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance Max dZ: Link Optimizer Tol: Edge Length Option: Dfit Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08	Tolerances & Options	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dfit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D):	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy
End Time: 0 0 72.000 Hydrology [sec] Surface Hydraulics [sec] Groundwater [sec] 60.000 900.0000 Min Calculation Time: 60.000 0.1000 900.0000 900.0000 Max Calculation Time: Output Time Increments 0 0 0 Hydrology	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance Max dZ: Link Optimizer Tol: Edge Length Option: Dflt Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal Year	Tolerances & Options	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dflt Damping (1D): Min Node Srf Area (1D): Energy Switch (1D):	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour fhrl
Hydrology [sec] Surface Hydraulics [sec] Groundwater [sec] Min Calculation Time: 60.0000 0.1000 900.0000 Max Calculation Time: 30.0000 0.000 900.0000	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance Max dZ: Link Optimizer Tol: Edge Length Option: Dfit Damping (2D): Min Node ST Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal Year 0	Tolerances & Options Tolerances & Options General Month O	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dflt Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Dflt Damping (1D):	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour [hr] 0.0000
Min Calculation Time: 60.0000 0.1000 900.0000 Max Calculation Time: 30.0000 Output Time Increments Hydrology Month Day Hour [hr] Time Increment [min]	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance Max dZ: Link Optimizer Tol: Edge Length Option: Dflt Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time: End Time:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal 0 0 0	Ceneral Month 0 0	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dfit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Dift Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Day O	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour [hr] 0.0000 72.0000
Max Calculation Time: 30,0000 Output Time Increments Hydrology Month Day Hour [hr] Time Increment [min]	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance Max dZ: Link Optimizer Tol: Edge Length Option: Dfit Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time: End Time:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal Year 0 0 Hydrology [sec]	Ceneral Ceneral Month 0 0 Surface Hydraulics [sec]	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dfit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Dift Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Day O Croundwater [sec]	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour [hr] 0.000 72.0000
Output Time Increments Hydrology Month Day Hour [hr] Time Increment [min]	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance Max dZ: Link Optimizer Tol: Edge Length Option: Dflt Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time: End Time: End Time: Min Calculation Time:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal <u>Year</u> 0 0 Hydrology [sec] 60.0000	Ceneral General Month 0 0 Surface Hydraulics [sec] 0.1000 20 proce	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dfit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Dit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Dit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Conduct (10): Day 0 0 0 0	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour [ħr] 0.0000 72.0000
Hydrology Month Day Hour [hr] Time Increment [min]	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance Max dZ: Link Optimizer Tol: Edge Length Option: Dfit Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time: End Time: Min Calculation Time:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal Year 0 0 Hydrology [sec] 60.0000	Tolerances & Options General Month 0 0 Surface Hydraulics [sec] 0.1000 30.0000	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Amount: Storm Duration: Dfit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Dit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Dit Damping (1D): Min Node Srf Area (1D): Energy Switch (1D): Conduct (10): Day 0 0 0	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour [hr] 0.0000 72.0000
Month Day Hour [hr] Time Increment [min]	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance: Max dZ: Link Optimizer Tol: Edge Length Option: Dfit Damping (2D): Min Node ST Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time: End Time: Min Calculation Time: Max Calculation Time:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal Vear 0 0 Hydrology [sec] 60.0000	Tolerances & Options General Month 0 0 Surface Hydraulics [sec] 0.1000 30.0000 Output Time Increments	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Name: Rai	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour [hr] 0.0000 72.0000
Month Day Hour [hr] Lime increment [min]	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance: Max dZ: Link Optimizer Tol: Edge Length Option: Dfit Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time: End Time: Min Calculation Time: Max Calculation Time:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal Year 0 0 Hydrology [sec] 60.0000	Tolerances & Options Tolerances & Options General Month 0 0 Surface Hydraulics [sec] 0.1000 30.0000 Output Time Increments	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Name: Rai	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour [hr] 0.0000 72.0000
	REPORT Fort Lauderdale Fire Stati Time Marching: Max Iterations: Over-Relax Weight Fact: dZ Tolerance: Max dZ: Link Optimizer Tol: Edge Length Option: Dflt Damping (2D): Min Node Srf Area (2D): Energy Switch (2D): ent: tion: 100 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time: End Time: Min Calculation Time: Max Calculation Time: Max Calculation Time:	SAOR 6 0.5 dec 0.0010 ft 1.0000 ft 0.0050 ft 100 ft2 Energy POST-DEV 12/17/2021 1:19:41 PM ICPR4 4.07.08 Normal Year 0 0 Hydrology [sec] 60.0000	Ceneral Ceneral Surface Hydraulics [sec] 0.1000 30.0000 Output Time Increments	Crop Coef Set: Fillable Porosity Set: Conductivity Set: Leakage Set: IA Recovery Time: ET for Manual Basins: Smp/Man Basin Rain Opt: OF Region Rain Opt: OF Region Rain Opt: Rainfall Name: Rainfall Name	24.0000 hr False Global Global SFWMD24 8.75 in 24.0000 hr 0.0050 ft 100 ft2 Energy Hour [hr] 0.0000 72.0000

IPUT REPORT Fort Lauderdale Fire Stati	ion No. 13			
ear	Month	Day	Hour [hr]	Time Increment [min]
	0	0	0.0000	1
Surface H	lydraulics	I		
ear	Month	Day	Hour [hr]	Time Increment [min]
Group				
Ground	dwater	·		
ear	Month 0	Day 0	Hour [hr] 0.0000	Time Increment [min] 6
Resta	rt File			·
Save Restart:	False	•		
		Resources & Lookup Tables		
Reso	urces		Looku	Tables
Rainfall Folder: Reference ET Folder:	SFWMD		Boundary Stage Set: Extern Hydrograph Set:	72-HR
Unit Hydrograph Folder:			Curve Number Set: Green-Ampt Set:	PRE DEV CN
			Vertical Layers Set:	
			Impervious Set: Roughness Set:	PRE-DEV
			Crop Coef Set: Fillable Porosity Set:	
			Conductivity Set:	
			Leaкage зен:	
		Tolerances & Options		
Time Marching: Max Iterations:	SAOR 6		IA Recovery Time: ET for Manual Basins:	72.0000 hr False
Over-Relax Weight Fact:	0.5 dec		Smp/Man Dasin Dain Ont-	
dz rolerance. Max dZ:	0.0010 ft 1.0000 ft		OF Region Rain Opt:	Global Global
Link Optimizer Tol:	0.0001 ft		Rainfall Name: Rainfall Amount:	~SFWMD-72 17.75 in
Edge Length Option:	Automatic		Storm Duration:	72.0000 hr
Dflt Damping (2D):	0.0050 ft		Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D): Energy Switch (2D):	100 ft2 Enerav		Min Node Srf Area (1D): Energy Switch (1D):	100 ft2 Fnerav
Clerical/Jobs/2020/20-0030-001-01 Fort Lauderdale Fir IPUT REPORT Fort Lauderdale Fire Stati	re Station No. 13400 Design Calculations/Civili13 Storm	n Drainage\/CPRIFS 13\		12/1
ClericalUobsl2020/20-0030-001-01 Fort Lauderdale Fir IPUT REPORT Fort Lauderdale Fire Stati omment: mulation: 25 YR - 72 HR Scenario:	re Station No. 13/400 Design Calculations/Civil13 Storm	n Drainage/ICPR(FS 13)		12/1
ClericalUebs/2020/20-0030-001-01 Fort Lauderdale Fire IPUT REPORT Fort Lauderdale Fire Stati omment: mulation: 25 YR - 72 HR Scenario: Run Date/Time: Program Version:	POST-DEV 12/17/2021 1:20:02 PM ICPR4 4.07.08	n Drainage\ICPR\FS 13\		12/1
Clerical Jobel 2020/20-0030-001-01 Fort Lauderdale Fi IPUT REPORT Fort Lauderdale Fire Stati omment: imulation: 25 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode:	re Station No. 13/400 Design Calculations/Civil13 Storm ion No. 13 POST-DEV 12/17/2021 1:20:02 PM ICPR4 4.07.08 Normal	n Drainage/ICPR(FS 13)		12/1
ClericalUdoat2020/20-0030-001-01 Fort Lauderdale Fi IPUT REPORT Fort Lauderdale Fire Stati omment: mulation: 25 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode:	re Station No. 13400 Design Calculational Civil 13 Storm ion No. 13 POST-DEV 12/17/2021 1:20:02 PM ICPR4 4.07.08 Normal	n Drainagel/CPR/FS 13\	Day	12/1
ClericalUebal2020/20-0030-001-01 Fort Lauderdale Fire Stati IPUT REPORT Fort Lauderdale Fire Stati omment: mulation: 25 YR - 72 HR Scenario: Run Date/Time: Program Version: Run Mode: Start Time: End Time:	re Station No. 13/400 Design Calculations/Civil13 Storm ion No. 13 POST-DEV 12/17/2021 1:20:02 PM ICPR4 4.07.08 Normal <u>Year</u> 0 0	n Drainage\/CPR\/FS 13\	<u>Day</u> 0	12/1
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		Output Time Increments		
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EPORT Fort Lauderdale Fire Stat	ion No. 13			
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Edge Length Option:	Automatic		Storm Duration:	24.0000 hr
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t:				
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		General		
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INPUT REPORT Fort Lauderdale Fire Stat	tion No. 13			15
Run Mode:	Normal	General		
	Year	Month	Day	Hour [hr]
Start Time: End Time:	0 0	0 0	0 0	0.0000 24.0000
	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]	
Min Calculation Time: Max Calculation Time:	60.0000	0.1000 30.0000	900.0000	-
		Output Time Increments		
live				
пуш	Marak	Dav	Lines files	Time to account facial
vear O	Month 0	0	Hour [nr] 0.0000	Time Increment [min] 15.0000
Surface H	Hydraulics			
Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000
Groun	ndwater			
Year	Month	Day	Hour [hr]	Time Increment [min] 60.0000
Dest	Control Cilco		0.0000	00.0000
Save Restart:	False			
		Resources & Lookup Tables		
Reso	ources		Lookup	Tables
Rainfall Folder: Reference ET Folder:	SFWMD		Boundary Stage Set: Extern Hydrograph Set:	24-HR
Unit Hydrograph Folder:			Curve Number Set: Green-Ampt Set:	POST DEV CN
			Vertical Layers Set:	POST DEV
			Roughness Set:	POST-DEV
			Crop Coef Set: Fillable Porosity Set:	
			Conductivity Set: Leakage Set:	
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	tion No. 13			16
				10
		Tolerances & Options		
Time Marching:	SAOR		IA Recovery Time:	24.0000 hr
Max Iterations: Over-Relax Weight Fact:	6 0.5 dec		ET for Manual Basins:	False
dZ Tolerance:	0.0010 ft		Smp/Man Basin Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft		Rainfall Name:	SFWMD24
Edge Length Option:	Automatic		Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0050 ft		Dflt Damping (1D):	0.0050 ft
Min Node Srf Area (2D): Energy Switch (2D):	100 ft2 Energy		Min Node Srf Area (1D): Energy Switch (1D):	100 ft2 Energy
Comment:				
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			47
			17
Curve Number: POST DEV CN [Set]			
Land Cover Zone	Soil Zone	Curve Number [dec]	
CN	CN		91.0
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INPUT REPORT Fort Lauderdale Fire Station No. 13					19
Manual Basin: SITE					
Scenario: Node:	POST-DEV SITE				
Hydrograph Method	NRCS Unit Hydrograph				
Time of Concentration	10.0000 min				
Max Allowable Q: Time Shift:	0.00 cfs 0.0000 hr				
Unit Hydrograph:	UH484				
Peaking Factor: Area:	484.0 0.7400 ac				
Area [ac] Land Cover Zone Soil J	Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	
0.7400 014 014			1		
Comment:					
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INClancal Jossi 2020/2020-0030-001-01 Fort Lauderdale Fire Station No. 13M00 Design Calculations INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method:	PRE-DEV SITE NRCS Unit Hydrograph			12/17/20	21 14:03
INClancal Jossi 2020/2020-0030-001-01 Fort Lauderdale Fire Station No. 13400 Design Calculations INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration:	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min			12/17/20	21 14:03
INClancal Gest2020/2020-0030-001-01 Fort Lauderdale Fire Station No. 13/ INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time of Concentration:	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs			12/17/20	21 14:03
INClancal Gest2020/004/001-01 Fort Lauderdale Fire Station No. 13/ INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph:	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484			12/17/20	21 14:03
INClancal Josef2020/2004/001-01 Fort Lauderdale Fire Station No. 13/ INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable C: Time Shft: Unit Hydrograph: Peaking Factor: Peaking Factor:	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.000 fr UH484 484.0 0.5200 ac			12/17/20	21 14:03
INClancal Josef2020/2004/3030-001-01 Fort Lauderdale Fire Station No. 13400 Design Calculations: INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph: Peaking Factor: Area [ac] Land Cover Zone Soil J	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	12/17/20	20
INClancal Josef2020/2003/001-01 Fort Lauderdale Fire Station No. 13400 Design Calculations: INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph: Peaking Factor: Area [ac] 0.5200 CN CN CN	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
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INClancal Josef2020/00300/01-01 Fort Lauderdale Fire Station No. 13	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INClancal Josef2020/00300/01-01 Fort Lauderdale Fire Station No. 13	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INClancal Josef2020/2003/001-01 Fort Lauderdale Fire Station No. 13	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.000 fr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INClancal Josef2020/00300/01-01 Fort Lauderdale Fire Station No. 13	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INClencal Josef2020/00300/01-01 For Lauderdale Fire Station No. 13/	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484,0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
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INPUT REPORT Fort Lauderdale Fire Station No. 13 INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph: Peaking Factor: Area Area [ac] Land Cover Zone Soli CN Comment: 0.74	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INPUT REPORT Fort Lauderdale Fire Station No. 13 INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable 02 Time Shift: Unit Hydrograph: Peaking Factor: Area Area [ac] Land Cover Zone Soli Comment: 0.74	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac fone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INClancal Josef2020/00300/01-01 For Lauderdale Fire Station No. 13	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INClencal Josef2020/0030/001-01 For Lauderdale Fire Station No. 13	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INPUT REPORT Fort Lauderdale Fire Station No. 13400 Design Calculations INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph: Peaking Factor: Area [ac] Land Cover Zone Soll 0.5200 CN CN Comment: 0.74	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.000 fr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INPUT REPORT Fort Lauderdale Fire Station No. 13 INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infitration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph: Peaking Factor: Area [ac] Land Cover Zone Soli J Comment: 0.74	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph: Peaking Factor: Area [ac] Land Cover Zone Soil / 0.5200 CN CN CN	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfail Name	Crop Coefficient Zone	Reference ET Station	20
INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph: Peaking Factor: Area [ac] Land Cover Zone Soli / 0.5200 CN CN CN	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 hr UH484 484.0 0.5200 ac fone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INPUT REPORT Fort Lauderdale Fire Station No. 13 INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shift: Unit Hydrograph: Peaking Factor: Area Area [ac] Land Cover Zone Soli Comment: 0.74	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INCleneal Josef 2020/0309/01-01 For Lauderdale Fire Station No. 13	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.00 cfs 0.0000 hr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	20
INPUT REPORT Fort Lauderdale Fire Station No. 13 Manual Basin: SITE Scenario: Node: Hydrograph Method: Infiltration Method: Time of Concentration: Max Allowable Q: Time Shft: Unit Hydrograph: Peaking Factor: Area [ac] Land Cover Zone Soil Comment: 0.74	PRE-DEV SITE NRCS Unit Hydrograph Curve Number 10.0000 min 0.000 fr UH484 484.0 0.5200 ac Cone	Rainfall Name	Crop Coefficient Zone	Reference ET Station	

			21
Node: EXFIL TRENCH			
Scenario:	POST-DEV		
I ype: Base Flow:	Stage/Volume 0.00 cfs		
Initial Stage:	1.50 ft		
Warning Stage:	4.00 ft		
Stage [ft]	Volume [ac-ft]	Volume [ft3]	
2.00	0.00	871	
2.50	0.04	1699	
3.00	0.06	2570	
4.00	0.10	4269	
Comment: WQ ELEV. 4.0			
213 EF TO KGI WITT'S WIDE X TO EONO EXTERNA			
N:/Ciencal/Jobs/2020/20-0030-001-01 Fort Lauderdale Fire Station No.	13/400 Design Calculations/Civil/13 Storm Drainage/ICPR/FS 13/		12/17/2021 14:03
INPUT REPORT Fort Lauderdale Fire Station No. 13			22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT			22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario:	POST-DEV		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow:	POST-DEV Time/Stage 0.00 cfs		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage:	POST-DEV Time/Stage 0.00 cfs 4.55 ft		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Powdards Stare: Powdards	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft EPOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage:	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Boundary Stage: Boundary Stage: Scenario: Sc	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 LF. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15° RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Control Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		22
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 LE: 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Warning Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 LE: 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Comment: CROWN OF PIPE ELEVATION 4.66 LE. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Constraint Stage: Base Flow:	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Connent: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15° RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Control Co	POST-DEV Time/Stage 0.00 dfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Control Scenario: Base Flow: Base Flow: Initial Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15° RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Control Scenario: Type: Base Flow: Initial Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15" RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Boundary Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 I.E. 3.12 (N) 15° RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Control Scenario: Type: Base Flow: Initial Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 LE. 3.12 (N) 15° RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Comment: CROWN OF PIPE ELEVATION 4.66 LE. 3.12 (N) 15° RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		
INPUT REPORT Fort Lauderdale Fire Station No. 13 Node: FDOT Scenario: Type: Base Flow: Initial Stage: Boundary Stage: Comment: CROWN OF PIPE ELEVATION 4.66 LE. 3.12 (N) 15° RCP	POST-DEV Time/Stage 0.00 cfs 4.55 ft 0.00 ft FDOT		

INPUT REPORT Fort Lauderdale Fire Station No. 7	3		23
	-		
Node: SITE Scenari	: POST-DEV		
Тур	e: Stage/Area		
Base Flor	1: 0.00 cfs		
Warning Stag	e: 8.00 ft		
Stage [ft]	Area [ac]	Area [ft2] 1752	
3.1	0.0402	1752	
3.2	0.0402	1752	
3.3	0.0402	1752	
3.5	0.0452	1967	
3.6	0.0455	1983	
3.8	0.0466	2029	
3.9	0.0473	2059	
4.0	0.0479	2087	
4.2	0 0.0492	2144	
4.3	0 0.0499	2172	
4.4	0.0511	2226	
4.5	0.0518	2255	
4.0	0.0524	2284 2313	
4.8	0.0538	2342	
4.9	0.0544	2371	
5.1	0.0558	2400	
5.2	0.0564	2458	
5.4	0.0571	2487	
5.5	0.0588	2562	
5.6	0.0600	2612 2671	
5.8	0.0633	2757	
5.9	0.0656	2856	
6.1	0.0821	3577	
6.2	0.0986	4297	
6.4	0.1177	5128	
6.5	0.1597	6955	
6.6	0.1849	8052	
N\Clerical\Jobs\2020/20-0030-001-01 Fort Lauderdale Fire Station I	o 13/400 Design Calculations\Civil\13 Storm Drainage\\CPR\ES 13\		12/17/2021 14:03
N:\Clerical\Jobs\2020\20-0030-001-01 Fort Lauderdale Fire Station 1	o. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPR/FS 13\		12/17/2021 14:03
N-Clerical/Uobs/2020/20-0030-001-01 Fort Lauderdale Fire Station /	o. 13/400 Design Calculations/Chvil(13 Storm Drainage1/CPRIFS 13)		12/17/2021 14:03
N-Clerical/Uobs/2020/20-0030-001-01 Fort Lauderdale Fire Station /	o. 13/400 Design Calculations/C/vil/13 Storm Drainage/JCPR/FS 13/		12/17/2021 14:03
N3ClericalVobs/2020/20-0030-001-01 Fort Lauderdale Fire Station No.	o. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPR/FS 13/ Area [ac] O 2155	Area [ft2]	12/17/2021 14:03 24
N3ClericalUobs/2020/20-0030-001-01 Fort Lauderdale Fire Station No. 17 INPUT REPORT Fort Lauderdale Fire Station No. 17 Stage [ft] 6.7 6.8	0. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/	Area [ft2] 9386 10334	12/17/2021 14:03
N:Clerical/Jobs/2020/20-0030-001-01 Fort Lauderdale Fire Station I INPUT REPORT Fort Lauderdale Fire Station No Stage [ft] 6.7 6.8 6.9 7 or -	0. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/	Area [ft2] 9386 10334 11124	24
N:Clerical/Jobs/2020/20-0030-001-01 Fort Lauderdale Fire Station I INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.7 7.1 7.1	0. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/	Area [ft2] 9386 10334 11124 11903 12348	24
N:Clerical/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station I/ INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 6.9 7.0 7.1	0. 13/400 Design Calculations/Civil/13 Storm Drainagel/CPRIFS 13/	Area [ft2] 9386 10334 11124 11903 12348 12638	24
N:Clerical/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station In INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 6.9 7.0 7.1 7.2 7.3	. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13.	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13654	24
N:Clerical/Uobs/2020/20-0030-001-01 Fort Lauderdale Fire Station In INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 6.9 7.0 7.1 7.3 7.4 7.5	. 13/400 Design Calculations/Civil/13 Storm DrainageIICPRIFS 13.	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945	24
N:Clerical/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 7.4 7.4 7.5 7.6	. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13.	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 14763	24
N:Clerical/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 6.9 7.0 7.1 7.3 7.4 7.5 7.6 7.7 7.6 7.7	Area [ac] 0.2155 Area [ac] 0.2155 0.0.2554 0.2372 0.0.2554 0.2732 0.0.2732 0.2401 0.0.2901 0.2901 0.0.2986 0.3089 0.0.3389 0.3312 0.0.3513 0.3513 0.0.3513 0.3651	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 15845 15845	24
N:Clerical/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 6.9 7.0 7.1 7.2 7.4 7.5 7.6 7.7 7.6 7.7 7.6 7.7 7.8 7.9	Area [ac] Area [ac] Area [ac] O.2155 O.2372 O.2554 O.2355 O.2372 O.2554 O.2455 O.2835 O.2835 O.2835 O.2835 O.2835 O.3089 O.3089 O.3039 O.3039 O.3389 O.3356 O.3756 O.3756	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 15301 15301 15845 16363	24
N:Clerical/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 7.0 7.1 7.2 7.4 7.5 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 8.1	a. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/ 3 Area [ac] Q 0.2155 Q 0.2155 Q 0.2554 Q 0.2372 Q 0.2554 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2391 Q 0.2391 Q 0.2901 Q 0.3089 Q 0.3376 Q 0.3684 Q 0.3689 Q 0.3684	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 15845 16363 16363 16962 17726	24
N:Clerical/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 7.0 7.1 7.2 7.4 7.5 7.6 7.7 7.6 7.7 8.1 8.2	a. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/ Area [ac] Q 0.2155 Q 0.2155 Q 0.2554 Q 0.2554 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2381 Q 0.2391 Q 0.3201 Q 0.3389 Q 0.3513 Q 0.3648 Q 0.3756 Q 0.4266	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 15301 15845 16363 16962 18582 18582	24
NtClerical/Jobs/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 7.0 7.1 7.2 7.4 7.5 7.6 7.7 7.6 7.7 8.1 8.2 8.3 8.4	a. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/ Area [ac] Q 0.2155 Q 0.2155 Q 0.2554 Q 0.2554 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2381 Q 0.2391 Q 0.3081 Q 0.3381 Q 0.3513 Q 0.3513 Q 0.3513 Q 0.3514 Q 0.3515 Q 0.3514 Q 0.3515 Q 0.3514 Q 0.3514 Q 0.3515 Q 0.4589 Q 0.4431 Q 0.4589	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 15301 15845 16363 16962 17726 18582 19301 19900	24
N:Clentral/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 7.0 7.1 7.2 7.4 7.5 7.6 7.7 7.6 7.7 8.1 8.2 8.3 8.4 8.5	Area [ac] Area [ac] 2 0.2155 2 0.2255 2 0.2372 2 0.2554 2 0.2372 2 0.2372 2 0.2372 2 0.2372 2 0.2372 2 0.2372 2 0.2372 2 0.2372 2 0.2381 2 0.3381 2 0.3381 2 0.3384 2 0.3384 2 0.3451 2 0.4431 2 0.4431 2 0.4589 2 0.4589	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 15301 15845 16363 16962 16726 18582 19301 19301 19990 20704	24
N:Clerical/Uobe/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 8.1 8.1 8.1 8.2 8.3 8.4 8.5 8.6 9.7	a. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/ Area [ac] Q 0.2155 Q 0.2155 Q 0.2554 Q 0.2554 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2382 Q 0.2901 Q 0.3089 Q 0.3381 Q 0.3513 Q 0.3513 Q 0.33894 Q 0.4266 Q 0.4263 Q 0.4589 Q 0.4589 Q 0.4581 Q 0.4581 Q 0.4581 Q 0.4581 Q 0.4581 Q 0.4582 Q 0.4582 Q 0.4583 Q 0.4581 Q 0.4582 Q 0.4583 Q	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 15301 15845 16363 16962 16726 18582 19301 19301 19900 20704 21427	24
N:Clerical/Uobs/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 6.8 7.6 7.7 7.6 7.7 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.8 8.6 8.7 8.8	a. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/ Area [ac] Q 0.2155 Q 0.2155 Q 0.2554 Q 0.2554 Q 0.2554 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2381 Q 0.2391 Q 0.3081 Q 0.3389 Q 0.3648 Q 0.4266 Q 0.4268 Q 0.4263 Q 0.4589 Q	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 15301 15301 15333 16363 16962 17726 18582 19301 19301 20704 21427 22027 222027	24
N:Clerical/Uobs/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 6.8 8.1 7.6 7.7 7.6 7.7 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.7 8.8 8.9	a. 13/400 Design Calculations/Civil/13 Storm Drainage/ICPRIFS 13/ Area [ac] Q 0.2155 Q 0.2155 Q 0.2554 Q 0.2554 Q 0.2554 Q 0.2372 Q 0.2372 Q 0.2372 Q 0.2384 Q 0.2391 Q 0.3089 Q 0.3389 Q 0.4368 Q 0.4431 Q 0.4589 Q 0.4591 Q 0.4591 Q 0.5180 Q 0.5180	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13455 14763 15301 15845 16363 16962 16726 18582 19301 17726 18582 19301 20704 21427 22007 22007	24
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N:Clerical/Jobs/2020/20-0030-001-01 Fort Lauderdale Fire Station No. INPUT REPORT Fort Lauderdale Fire Station No. Stage [ft] 6.8 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 9.0 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 10.0 10.1 10.2 9.5 9.6 9.7 9.8 9.9 <tr< td=""><td>Area (ac) Area (ac) 0.13400 Design Calculations/Civil13 Storm Drainage/ICPRIFS 13. 3 Area (ac) 0.2155 0.22155 0.2254 0.2254 0.2255 0.2372 0.2554 0.2732 0.2801 0.2801 0.2801 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.30391 0.30391 0.3313 0.3314 0.3384 0.3354 0.44431 0.44431 0.44431 0.44431 0.44431 0.5442 0.5442 0.5443 0.54433 0.54434 <!--</td--><td>Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 13945 15815 16363 16962 17726 18582 19301 20704 21427 2027 22027 22566 23348 23644 23644 23664 23665 23665 23667 23666 23667 23667 23667 23673 23673 23674 23673 23675 23673 23674 23673 23675 23673 23676 23667 23678 23681 23681 23681</td><td>24</td></td></tr<>	Area (ac) Area (ac) 0.13400 Design Calculations/Civil13 Storm Drainage/ICPRIFS 13. 3 Area (ac) 0.2155 0.22155 0.2254 0.2254 0.2255 0.2372 0.2554 0.2732 0.2801 0.2801 0.2801 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.2901 0.30391 0.30391 0.3313 0.3314 0.3384 0.3354 0.44431 0.44431 0.44431 0.44431 0.44431 0.5442 0.5442 0.5443 0.54433 0.54434 </td <td>Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 13945 15815 16363 16962 17726 18582 19301 20704 21427 2027 22027 22566 23348 23644 23644 23664 23665 23665 23667 23666 23667 23667 23667 23673 23673 23674 23673 23675 23673 23674 23673 23675 23673 23676 23667 23678 23681 23681 23681</td> <td>24</td>	Area [ft2] 9386 10334 11124 11903 12348 12638 13009 13454 13945 14763 13945 15815 16363 16962 17726 18582 19301 20704 21427 2027 22027 22566 23348 23644 23644 23664 23665 23665 23667 23666 23667 23667 23667 23673 23673 23674 23673 23675 23673 23674 23673 23675 23673 23676 23667 23678 23681 23681 23681	24

INPUT REPORT Fort Lauderdale Fire Station No. 13

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11.29		riou [itz]
	0.5438	23690
11.39	0.5440	23695
11.49	0.5440	23699
11.59	0.5441	23702
11.69	0.5442	23704
11.79	0.5442	23706
11.89	0.5443	23708
11.99	0.5443	23711
12.09	0.5444	23713
12.19	0.5444	23715
12.29	0.5445	23717
12.39	0.5445	23719
12.49	0.5445	23720
12.59	0.5446	23722
12.69	0.5446	23723
12.79	0.5446	23725
12.89	0.5447	23726
12.99	0.5447	23727
13.09	0.5447	23729
13.19	0.5448	23730
13.29	0.5448	23731
13.39	0.5448	23733
13.49	0.5449	23734
13.59	0.5449	23736
13.69	0.5449	23737
13.79	0.5450	23738
13.89	0.5450	23740
13.99	0.5450	23741
14.09	0.5451	23743
14.19	0.5451	23744
14.29	0.5451	23745
14.39	0.5451	23747
14.49	0.5452	23748
14.59	0.5452	23749
14.69	0.5452	23751
14.79	0.5453	23752
14.89	0.5453	23754
14.99	0.5453	23755
	0.7360	32061
15.09		

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INPUT REPORT Fort Lauderdale Fire Station No. 13

Scenario: POST-DEV Type: Stage/Volume Base Flow: 0.00 cfs Initial Stage: 1.50 ft Warning Stage: 5.50 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
0.00	0.00	0
2.00	0.00	0
5.50	0.11	4922

Comment: TOTAL OF 60 - 8' LONG

SC-740 CHAMBERS WITH 12" SUB BASE FOR A TOTAL OF 82 CF PER CHAMBER.

30 = 0.0565

Node: UST

60 CHAMBERS X 82 CF / CHAMBER = 4920 CF = 0.113 AC-FT

90 CHAMBERS X 82 CF / CHAMBER = 7380 CF = 0.169 AC-FT

12/17/2021 14:03

26

. 13	
. 13	3

Node: FDOT

Scenario: PRE-DEV Type: Time/Stage Base Flow: 0.00 cfs Initial Stage: 0.41 ft Warning Stage: 0.00 ft Boundary Stage: FDDT

Comment: CROWN OF PIPE ELEVATION 4.55. I.E. 3.12 (N) 15" RCP

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INPUT REPORT Fort Lauderdale Fire Station No. 13

Scenario: PRE-DEV
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 0.41 ft
Warning Stage: 0.00 ft
Stage [ft] Area [ac] Area [ft2]
3.53 0.0000 1
3.60 0.0009 38
3.70 0.0042 182
3.80 0.0084 366
3.90 0.0124 538
4.00 0.0235 1025
4.09 0.0372 1619
4.19 0.0586 2554
4.29 0.0862 3754
4.39 0.1141 4969
4.49 0.1453 6331
\c08 c881.0 k54.0 k54
4.69 U.2404 10/31
4./Y U.3430 14%/
4.69 0.5200 22031
6.49 0.3200 22031
Comment: 3.53.2.3F-05
3.6.0.000872
3 7 0.004178
3.8.0.008402
3 9 0 012351
4.0.023531
4.09.0.037167
4.19.0.058632
4.29 0.08618
4.39 0.114073
4.49 0.14534
4.59 0.184504
4.69 0.24635
4.79 0.343595
4.89 0.421534
4.99 0.474816
5.09 0.548026
5.19 0.643595
5.29 0.683609
5.39 0.700092
5.49 0.703994

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12/17/2021 14:03

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INPUT REPORT Fort Lauderdale F	Fire Station No. 13					29
5 59 0 707874						
5.69 0.710767						
5.79 0.713613						
5.89 0.715978						
6.09 0.719927						
6.19 0.721258						
6.39 0.724242						
6.49 0.725712						
6.59 0.726997						
6.79 0.729017						
6.89 0.729614						
6.99 0.730257						
7.19 0.73129						
7.29 0.73168						
7.39 0.732117						
7.59 0.73292						
7.69 0.733287						
7.79 0.733609						
7.99 0.734206						
8.1 0.734452						
8.2 0.734688						
8.39 0.736014						
8.49 0.736014						
	derdale Fire Station No. 13\400 Design (Calculations/Civil\13 Storm Drainage\ICPR/ES 13				12/17/2021 14:02
N:\Cierical\Jobs\2020\20-0030-001-01 Fort Lat						12/17/2021 14:03
N:(Ciencal/Jobs/2020/20-0030-001-01 Fort Lat	and and the statements. To you being the					12/17/2021 14:03
INPUT REPORT Fort Lauderdale F	Fire Station No. 13					30
INPUT REPORT Fort Lauderdale f	Fire Station No. 13		troom		Downstroam	30
INPUT REPORT Fort Lauderdale ff Pipe Link: CU-SITE-EXFIL Scenario:	Fire Station No. 13	Upst	tream 1.04 ft		Downstream Invert: 1.04	30
INPUT REPORT Fort Lauderdale F Pipe Link: CU-SITE-EXFIL Scenario: From Node:	Fire Station No. 13 POST-DEV SITE	Upst Invert: Manning's N:	tream 1.04 ft 0.0120		Downstream Invert: 1.04 Manning's N: 0.01:	11/12/21 14:00 30 ft 20
INPUT REPORT Fort Lauderdale F Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Court	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1	Upsi Invert: Manning's N: Geometr Max Dentis	tream 1.04 ft 0.0120 y: Circular 1.25 ft		Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Circu Max Denth: 1.25	ft the state of th
INPUT REPORT Fort Lauderdale f Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both	Upst Invert: Manning's N: Geometr Max Depth:	tream 1.04 ft 0.0120 y: Circular 1.25 ft	Bottom Clip	Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Circu Max Depth: 1.25	ft to the test of the test of the test of the test of
INPUT REPORT Fort Lauderdale f Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft	Upst Invert: Manning's N: Geometr Max Depth: Default:	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft	Bottom Clip	Downstream Invert: 1.04 Manning's N: 0.013 Geometry: Circu Max Depth: 1.25 Default: 0.00	ft ft ft ft
INPUT REPORT Fort Lauderdale f Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: EHWA Code:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft 215.00 ft 2	Upst Invert: Manning's N: Geometr Max Depth: Default: Op Table: Ref Norles	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft	Bottom Clip	Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Bef Mode:	ft ft ft ft
INPUT REPORT Fort Lauderdale f Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft 215.00 ft 2 0.50	Upst Invert: Manning's N: Geometr Max Depth: Default: Op Table: Ref Node: Manning's N:	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000	Bottom Clip	Downstream Invert: 1.04 Manning's N: 0.013 Geometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.001	ft 20 ft ft 20 ft ft 20
INPUT REPORT Fort Lauderdale f Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef: Exit Loss Coef:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft 215.00 ft 2 0.50 1.00	Upst Invert: Manning's N: Geometr Max Depth: Default: Op Table: Ref Node: Manning's N:	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000	Bottom Clip Top Clip	Downstream Invert: 1.04 Manning's N: 0.013 Geometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000	ft 20 ft ft 20 ft ft 20 ft 20
INPUT REPORT Fort Lauderdale f Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef: Bend Loss Coef: Coeficient Contingent	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft 215.00 ft 2 0.50 1.00 0.00 0.00 0.00 0.00 0.00 0.00	Ups Invert: Maning's N: Geometr Max Depth: Default: Op Table: Ref Node: Manning's N: Default: Op Table: Op Table: Default:	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000	Bottom Clip Top Clip	Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000 Default: 0.00 On Table:	ft 20 ft
INPUT REPORT Fort Lauderdale f Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef: Bend Lo	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft 215.00 ft 2 0.50 1.00 0.00 0.00 dec Energy	Ups Invert: Manning's N: Geometr Max Depth: Default: Op Table: Ref Node: Default: Op Table: Ref Node: Ref Node: Ref Node: Ref Node: Ref Node:	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000 0.00 ft	Bottom Clip Top Clip	Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000 Default: 0.00 Op Table: Ref Node:	12/1/2011/130 30 12/1/2011/100 12/1/2011/100 12/1/2011/100 12/1/2011/100 12/1/2011/100 12/1/2011/100 12/1/2011/100 12/100 10
INPUT REPORT Fort Lauderdale F Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef: Bend Location: Energy Switch:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.000 ft 215.00 ft 2 0.50 1.00 0.00 dec Energy	Ups Invert: Manning's N: Geometr Max Depth: Default: Op Table: Ref Node: Default: Op Table: Ref Node: Ref	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000 0.00 ft 0.0000	Bottom Clip Top Clip	Downstream Invert: 1.04 Manning's N: 0.01 Ceometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000	12/1/2011/100 30 ft 20 13/1/201 ft ft 100 100
INPUT REPORT Fort Lauderdale F Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef: Bend Loss Coef: Bend Loss Coef: Bend Location: Energy Switch: Comment:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.00000 ft 215.00 ft 2 0.50 1.00 0.00 dec Energy	Ups Invert: Manning's N: Geometr Max Depth: Default: Op Table: Ref Node: Manning's N: Default: Op Table: Ref Node: Ref Node:	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000 0.00 ft 0.0000	Bottom Clip Top Clip	Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000 Default: 0.00 Op Table: Ref Node: Ref Node: Manning's N: 0.000	11/12c1 (100) 30 ft 100 ft 100 ft 100 100 100 100 100 100 100 100 100 10
INPUT REPORT Fort Lauderdale F Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef: Bend Loss Coef: Bend Location: Energy Switch: Comment:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft 215.00 ft 2 0.50 1.00 0.00 dec Energy	Ups Invert: Manning's N: Geomet Max Depth: Default: Op Table: Ref Node: Manning's N: Default: Op Table: Ref Node: Ref Node: Re	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000 0.00 ft 0.0000	Bottom Clip Top Clip	Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000	12/1/2011/100 10 10 10 10 10 10 10 10 10
INPUT REPORT Fort Lauderdale F Pipe Link: CU-SITE-EXFIL Scenario: From Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef: Bend Loss Coef: Bend Loss Coef: Bend Loss Coef: Bend Locs Coef: Bend Locs Coef: Comment:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft 215.00 ft 2 0.50 1.00 0.00 dec Energy	Upst Invert: Manning's N: Geometr Max Depfault: Op Table: Ref Node: Manning's N: Default: Op Table: Ref Node: Manning's N:	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000 0.00 ft 0.0000	Bottom Clip Top Clip	Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Citra Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000	1277202 (1433 30 ft 20 12ar ft ft ft 20 00 ft
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INPUT REPORT Fort Lauderdale f Pipe Link: CU-SITE-EXFIL Scenario: From Node: To Node: Link Count: Flow Direction: Damping: Length: FHWA Code: Entr Loss Coef: Bend Location: Energy Switch: Comment:	Fire Station No. 13 POST-DEV SITE EXFIL TRENCH 1 Both 0.0000 ft 215.00 ft 2 0.50 1.00 0.00 0.00 dec Energy	Ups Invert Manning's N: Geometr Max Depth: Default: Op Table: Ref Node: Default: Op Table: Ref Node: Ref Node: Nanning's N:	tream 1.04 ft 0.0120 y: Circular 1.25 ft 0.00 ft 0.0000 0.00 ft 0.0000	Bottom Clip Top Clip	Downstream Invert: 1.04 Manning's N: 0.01 Geometry: Circu Max Depth: 1.25 Default: 0.00 Op Table: Ref Node: Manning's N: 0.000 Op Table: Ref Node: Manning's N: 0.000	10/1/2011/1003
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APPENDIX G: EXHIBITS



EXHIBIT #1 – PROOF OF OWNERSHIP



Site Address	3109 E SUNRISE BOULEVARD, FORT LAUDERDALE FL	ID #	4942 36 00 0010		
	33305	Millage	0312		
Property Owner	TIITF/DNR DIV REC & PARKS HUGH TAYLOR BIRCH ST PARK	Use	82		
Mailing Address	DEP DOUGLAS BLDG TALLAHASSEE FL 32399				
Abbr Legal Description	36-49-42 LOT 1 LESS PAR 1 & 3 AS IN PB 17/13,PT OF LOT 2 INTRACOASTAL W/W R/W ALSO THAT PT OF NEW RIVER SO LYING E OF INTRACOASTAL W/W R/W & PT OF LOT 5 LYING 6 LESS PAR 6 AS IN PB 17/13 & LESS RD R/W,ALSO THAT P IN THE SE1/4 LYING E OF INTRACOASTAL W/W R/W	LYING E C OUND IN N E OF INTI T OF NEW	DF IE1/4 OF SEC 36 RA W/W R/W, LOT RIVER SOUND		

The just values displayed below were set in compliance with Sec. 193.011, Fla. Stat., and include a reduction for costs of sale and other adjustments required by Sec. 193.011(8).

		ł	* 2022	value	s are co	onsidere	ed "wor	king va	alues	s" a	and are	subject	to cha	nge).		
						Prope	rty As	sessm	nent	Va	lues						
Year		Land Buil Impro				Building / Jus Improvement			ıst V	st / Market Value			Assessed / SOH Value			Тах	
2022	\$3	37,79	99,210		(\$1,862,0	,010 \$39,661,220					\$3	\$39,661,220				
2021	\$3	37,799,210				\$1,862,010			\$3	89,6	9,661,220 \$38,724,				24,640	Ī	
2020	\$3	37,79	99,210	\$1,869,0)80 \$39			39,6	668,290	90 \$35,204,220					
			2	022	Exempt	ions an	d Taxa	able Va	alues	s b	y Taxir	n <mark>g Aut</mark> h	ority				
					С	ounty		Scho	ool B	oai	rd	rd Municipal Independe				ndent	
Just Valu	Ie				\$39,66	61,220		\$39	9,661	,22	20	\$39,661,220 \$39,661			61,220		
Portabilit	ty					0					0			0			0
Assesse	d/SOH				\$39,66	61,220		\$39	9,661	,22	20	\$39	,661,22	<u>20</u>	\$3	9,66	61,220
Homeste	ad					0					0			0			0
Add. Hor	nestea	d				0					0			0			0
Wid/Vet/I	Dis	lis				0					0			0			0
Senior	Senior					0					0			0			0
Exempt 7	Туре 10			\$39,661,220				\$39,661,220			20	\$39	,661,22	<u>20</u>	\$3	9,66	61,220
Taxable						0					0			0			0
			S	ales I	History							La	and Ca	Icu	lations		
Date	Тур	e	Pric	e	E	Book/Pa		ge or CIN			Price Factor				Туре		
											\$10.00			3,779,921			SF
									Adj. Bldg. S.F. (Card, Sketch) 2312					3127			
]				Units 2				2			
	Eff./Act. Year Built: 1972/196						68										
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Fire	Fire		Garb		ight	Drai	n	Impr	r	S	Safe	Sto	rm		Clean	N	lisc
03	ĺ																
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S BCPA Web Map - Google Chrome

gisweb-adapters.bcpa.net/bcpawebmap_ex_new_web/bcpawebmap.aspx?FOLIO=494225050300



Marty Kiar Broward County Property Appraiser Florida

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EXHIBIT #2 – LOCATION SKETCH



EXHIBIT #3 – USGS LOCATION MAP

USGS Map Print View

USGS Map

USGS Map Print View



Legends

Dataset Details

Map Credits

Print Disclaimer

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- <u>FOIA</u>
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- <u>Twitter</u>
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- <u>Google+</u>
- <u>GitHub</u>
- <u>Flickr</u>
- <u>YouTube</u>
- Instagram

EXHIBIT #4 – US DEPARTMENT OF AGRICULTURE SCS MAP





Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
32	Perrine variant silt loam, frequently flooded	B/D	0.9	59.0%
40	Urban land, 0 to 2 percent slopes		0.6	41.0%
Totals for Area of Intere	st		1.5	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

USDA

Component Percent Cutoff: None Specified Tie-break Rule: Higher



EXHIBIT #5 – FEMA MAP



EXHIBIT #6 – BROWARD COUNTY RAINFALL, FDOT RAINFALL & NOAA PRECIPITATION DATA










NOAA Atlas 14, Volume 9, Version 2 Location name: Hollywood, Florida, USA* Latitude: 26.024°, Longitude: -80.1708° Elevation: 3.3 ft** * source: ESRI Maps ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-ba	PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration				Average re	ecurrence i	interval (ye	ars)				
Duration	1	2	5	10	25	50	100	200	500	1000	
5-min	0.549 (0.438-0.692)	0.638 (0.508-0.805)	0.784 (0.622-0.991)	0.906 (0.715-1.15)	1.08 (0.822-1.41)	1.21 (0.903-1.61)	1.34 (0.970-1.83)	1.48 (1.03-2.08)	1.66 (1.11-2.40)	1.80 (1.18-2.64)	
10-min	0.804 (0.641-1.01)	0.934 (0.744-1.18)	1.15 (0.911-1.45)	1.33 (1.05-1.69)	1.57 (1.20-2.07)	1.77 (1.32-2.35)	1.96 (1.42-2.68)	2.16 (1.50-3.04)	2.43 (1.63-3.51)	2.63 (1.72-3.87)	
15-min	0.981 (0.782-1.24)	1.14 (0.907-1.44)	1.40 (1.11-1.77)	1.62 (1.28-2.06)	1.92 (1.47-2.52)	2.15 (1.61-2.87)	2.39 (1.73-3.27)	2.64 (1.83-3.71)	2.96 (1.98-4.28)	3.21 (2.10-4.72)	
30-min	1.57 (1.25-1.98)	1.84 (1.46-2.32)	2.27 (1.80-2.87)	2.64 (2.08-3.35)	3.14 (2.40-4.13)	3.54 (2.65-4.71)	3.93 (2.85-5.38)	4.34 (3.02-6.10)	4.88 (3.27-7.07)	5.30 (3.47-7.80)	
60-min	2.16 (1.72-2.72)	2.49 (1.99-3.14)	3.07 (2.44-3.89)	3.59 (2.84-4.56)	4.36 (3.36-5.78)	4.99 (3.75-6.70)	5.65 (4.11-7.79)	6.36 (4.45-9.02)	7.36 (4.96-10.7)	8.16 (5.34-12.0)	
2-hr	2.74 (2.20-3.44)	3.15 (2.52-3.94)	3.88 (3.09-4.87)	4.55 (3.61-5.74)	5.57 (4.33-7.38)	6.44 (4.88-8.63)	7.37 (5.41-10.1)	8.39 (5.92-11.9)	9.84 (6.69-14.3)	11.0 (7.27-16.1)	
3-hr	3.07 (2.47-3.83)	3.50 (2.81-4.37)	4.32 (3.46-5.41)	5.10 (4.07-6.42)	6.34 (4.97-8.43)	7.41 (5.66-9.94)	8.59 (6.34-11.8)	9.89 (7.02-14.0)	11.8 (8.05-17.1)	13.3 (8.83-19.5)	
6-hr	3.57 (2.89-4.43)	4.12 (3.33-5.12)	5.19 (4.18-6.45)	6.21 (4.98-7.76)	7.84 (6.20-10.4)	9.27 (7.13-12.4)	10.9 (8.07-14.9)	12.6 (9.02-17.7)	15.2 (10.4-21.9)	17.3 (11.5-25.0)	
12-hr	4.03 (3.28-4.95)	4.80 (3.90-5.92)	6.23 (5.05-7.70)	7.56 (6.10-9.38)	9.62 (7.62-12.6)	11.4 (8.78-15.1)	13.3 (9.92-18.0)	15.4 (11.0-21.4)	18.4 (12.7-26.3)	20.8 (14.0-30.0)	
24-hr	4.54 (3.71-5.55)	5.54 (4.53-6.78)	7.33 (5.97-8.99)	8.95 (7.26-11.0)	11.4 (9.04-14.8)	13.4 (10.4-17.6)	15.6 (11.7-21.0)	18.0 (13.0-24.8)	21.3 (14.8-30.2)	24.0 (16.2-34.3)	
2-day	5.26 (4.33-6.39)	6.37 (5.24-7.75)	8.34 (6.84-10.2)	10.1 (8.26-12.4)	12.8 (10.2-16.5)	15.0 (11.7-19.6)	17.4 (13.2-23.3)	20.0 (14.6-27.4)	23.7 (16.6-33.4)	26.6 (18.2-37.8)	
3-day	5.86 (4.84-7.09)	6.95 (5.73-8.41)	8.90 (7.32-10.8)	10.7 (8.75-13.0)	(10.8-17.2)	15.7 (12.3-20.3)	18.1 (13.8-24.1)	20.8 (15.2-28.4)	24.6 (17.3-34.5)	27.7 (19.0-39.1)	
4-day	6.41 (5.31-7.73)	7.45 (6.16-8.99)	9.34 (7.70-11.3)	11.1 (9.10-13.5)	13.8 (11.1-17.6)	16.0 (12.6-20.8)	18.5 (14.1-24.5)	21.2 (15.5-28.9)	25.0 (17.7-35.1)	28.2 (19.4-39.7)	
7-day	7.83 (6.51-9.40)	8.77 (7.29-10.5)	10.5 (8.72-12.7)	12.2 (10.0-14.7)	14.8 (12.0-18.8)	17.0 (13.4-21.9)	19.4 (14.9-25.6)	22.1 (16.3-30.0)	25.9 (18.5-36.2)	29.1 (20.1-40.9)	
10-day	9.01 (7.52-10.8)	9.99 (8.33-12.0)	11.8 (9.81-14.2)	13.5 (11.2-16.3)	16.1 (13.1-20.4)	18.4 (14.6-23.5)	20.8 (16.0-27.3)	23.5 (17.4-31.7)	27.3 (19.5-37.9)	30.4 (21.1-42.6)	
20-day	12.1 (10.1-14.3)	13.6 (11.4-16.1)	16.1 (13.5-19.2)	18.3 (15.2-21.9)	21.4 (17.4-26.6)	23.9 (19.0-30.1)	26.5 (20.4-34.3)	29.3 (21.7-38.9)	33.0 (23.7-45.2)	36.0 (25.2-50.0)	
30-day	14.6 (12.3-17.2)	16.5 (13.9-19.6)	19.7 (16.5-23.4)	22.4 (18.7-26.6)	25.9 (21.0-31.9)	28.7 (22.8-35.8)	31.4 (24.2-40.2)	34.2 (25.4-45.0)	37.8 (27.2-51.3)	40.5 (28.5-56.0)	
45-day	17.7 (14.9-20.8)	20.2 (17.0-23.8)	24.1 (20.3-28.5)	27.3 (22.8-32.4)	31.3 (25.3-38.1)	34.3 (27.2-42.4)	37.1 (28.6-47.1)	39.8 (29.6-52.0)	43.1 (31.0-58.1)	45.5 (32.1-62.6)	
60-day	20.4 (17.3-23.9)	23.3 (19.7-27.3)	27.7 (23.4-32.7)	31.2 (26.2-36.9)	35.6 (28.8-42.9)	38.6 (30.7-47.5)	41.4 (32.0-52.3)	44.0 (32.8-57.2)	47.0 (33.9-63.0)	49.0 (34.7-67.3)	

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical





Duration 5-min 2-day 10-min 3-day 15-min 4-day 30-min 7-day 60-min 10-day 20-day 2-hr 3-hr 30-day 6-hr 45-day 12-hr 60-day 24-hr

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Maps & aerials

Small scale terrain



Large scale terrain





Large scale aerial



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US Department of Commerce National Oceanic and Atmospheric Administration National Weather Service National Water Center 1325 East West Highway Silver Spring, MD 20910 Questions?: <u>HDSC.Questions@noaa.gov</u>

Disclaimer

EXHIBIT #7 – BROWARD COUNTY FUTURE WET SEASON WATER TABLE EXHIBIT

BROWARD COUNTY - FUTURE WET SEASON WATER TABLE EXHIBIT



EXHIBIT #8 – GEOTECHNICAL REPORT

GEOTECHNICAL ENGINEERING STUDY Fire Station #13 2871 E Sunrise Boulevard Ft. Lauderdale, Broward County, Florida

Prepared For:

ACAI Associates, Inc. 2937 West Cypress Creek Road Ft. Lauderdale, Florida 33309

Prepared By:



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2 October 2020 330069001



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- **B PERCOLATION TEST RESULT SHEET**

INTRODUCTION

This report presents our geotechnical engineering study performed for the proposed Fire Station No. 13 at 2871 E. Sunrise Boulevard in Ft. Lauderdale, Broward County, Florida ("the Project"). The proposed development will consist of constructing a new 2-story Fire Station building with associated access entry and parking lot. The purpose of the study was to: 1) perform a site-specific subsurface investigation and engineering inspection, 2) perform a foundation analysis and evaluation, and 3) discuss other critical foundation construction activities, such as site preparation and ground improvement, slab and foundation preparation, construction excavation and backfilling related activities. This work was performed in general accordance with our 10 March 2020 proposal, which was authorized by Ms. Beatriz Loynaz, AIA in an "Authorization to Proceed Memorandum", dated 24 August 2020.

Our understanding of the existing site conditions is based on our observations made during the field investigation as well as review of available historical aerial photographs from the Google Earth. We have been provided the following information during this report preparation:

- Sketch of Survey Boundary and Topographic Survey, dated 14 July 2020, prepared by Nicholas Messina Jr.
- Sketch Showing Limits of the Proposed Building over a Google Map, provided in an email dated 4 September 2020.

All elevations given herein are in feet and refer to the North America Vertical Datum of 1988 (NAVD88).

SITE DESCRIPTION

The project site is located at 2871 E. Sunrise Boulevard in Ft. Lauderdale, Broward County, Florida. The site is approximately rectangular shaped, measuring about 200 ft in the east-west direction and about 160 ft in north-south direction. The site is bound to the south by Sunrise Boulevard and to the east, north and west by the Hugh Taylor Birch State Park. The site currently occupied by the existing 2-story Fire Station #13 building with associated at-grade parking/driveway and green area. The existing building is located on the southern and middle-eastern portions of the site.

Based on furnished survey plan, the site is relatively flat with ground surface elevation ranging from about el +4 to el +5 in the parking/driveway/green area and around el +5.35 to el +5.43 in the building/garage area. According to the Google Earth, the site conditions have been similar to the current condition since the earliest available aerial photograph of 1995.

PROPOSED CONSTRUCTION

The proposed development consists of constructing a new 2-story Fire Station building after demolition of the existing building. The limits of the new Fire Station building are shown on Figure 1. The rest of area will mainly serve as at-grade parking and drives. The proposed finish floor elevation of the building is el +8.0. The proposed grade for the surrounding at-grade parking/driveway is expected to be transition from el +8.0 to probable low points of el +5.0.

Preliminary structural information for the proposed 2-story structure was provided to us by Donata Williams Beasley, P.E. of S&F Engineers, Inc. The provided worst-case loads are as follows:

Column:DL=160 kips, LL = 55 kips;Wall:DL = 4.15 kips/ft, LL = 0.75 kips/ft



SUBSURFACE INVESTIGATION

Our subsurface investigation was performed on 8 September 2020. The investigation consisted of drilling three Standard Penetration Test (SPT) test borings (identified as B1 through B3) and one percolation test (identified as PT1 at the same location as B3) at approximate locations as shown on Figure 1. All investigation work was performed by a specialty drilling subcontractor under the direction and supervision of a Langan engineer. Details of this field investigation are discussed in the following subsections.

Test Borings

Among the total of three test borings, two (B1 and B2) were drilled to a depth of 50 ft for the proposed 2story building and one 10-ft deep boring (B3) was drilled for the proposed at-grade parking lots/driveway. All soil test boring logs are included in Appendix A.

All test borings were advanced using mud rotary drilling techniques. Split-spoon sampling was typically performed continuously in the upper 10 ft and at 5 ft intervals thereafter. The soil samples were visually examined and classified by Langan's geotechnical engineers both in the field and in our office.

Percolation Test

One 10-ft percolation tests (identified as PT1) was performed at the project site. The percolation test was performed in general accordance with the South Florida Water Management District (SFWMD) Usual Condition Constant Head Techniques to determine the hydraulic conductivity (k-values) of the soil. The percolation test result is included in Appendix B.

SUBSURFACE CONDITIONS

Generalized Subsurface Conditions

Based on the test borings performed, the generalized subsurface conditions encountered are summarized in the following table. In addition, a generalized subsurface profile is shown on Figure 1.

Stratum Number	Material Description	Approx. Top of Stratum Elevation (ft, NAVD88)	Thickness (ft)	Typical Range of SPT N-values (blows/ft)
1	1 to 2 inches of asphalt, followed by fine sand and limerock Fill (medium dense)	+4.5 to +5.0 (Ground Surface at boring locations)	2	21 to 26
2	fine Sand, trace to some shells, limerock and silt (medium dense to very loose)	+2.5 to +3.0	3.5 to 4	1 to 13
3	Intermixed Peat, Silt and Sand, followed by sandy Silt with organics (typically, very loose or soft with local medium dense)	-0.5 to -1.5	13 to 14 (Boring B3 terminated in this stratum)	0 to 27 (typ. < 5)
4	Limestone followed by Limestone/Cemented Sand with a localized zone of silty Sand (moderately hard to very hard)	-14.5	Borings 1 and 2 terminated in this stratum	11 to over 100



Groundwater

The groundwater level was measured in two test borings during initial drilling. The measured groundwater level was typically around 4.5 to 4.8 ft below the existing grade (approximately el +0.2 to el +0.5). The groundwater levels will fluctuate seasonally as a function of rainfall and infiltration into the soil. The groundwater levels may also be influenced by the tidal variations from adjacent Intracostal waterway and Atlantic Ocean.

Based on the Flood Insurance Rate Map (FIRM) number 12011C0388H, effective 18 August 2014, most of the site is in Zone X (0.2% annual chance flood hazard).

FOUNDATION EVALUATIONS

Based on the results of the subsurface investigation and our understanding of the proposed new construction, the following items have been considered during our foundation evaluation:

- The existing near surface granular fill and sandy materials (Strata 1 and 2) are typically medium dense in the upper 4 ft and become loose to very loose between depth of 4 and 6 ft, especially below the groundwater. Considering this and the presence of the very weak and compressible Stratum 3 material, the upper surface material can only be used for support of non-critical or non-settlement sensitive ground features. For those non-critical ground features, a soil allowable bearing pressure of 1,000 psf may be used in design.
- The peat and silt material (Stratum 3) encountered below the Stratum 2 is typically very soft and highly compressible material with thickness of 13 to 14 ft. Any additional loads causing stress into this material will result in substantial short and long-term settlements. Therefore, for support of any critical structures, this material must be either improved through a ground improvement program (i.e., preload or removal and replacement) or by-passed with a deep pile foundation system. Considering the relatively deep and thick condition of the Stratum 3 material, a ground improvement program operation would be relatively costly and not a preferable option. Therefore, a deep pile foundation system would be the preferable option for any settlement sensitive structures.
- The Stratum 4 limestone material below the Stratum 3 is moderately hard to very hard and found to be over 30 ft thick. Based on our experience, this limestone stratum will be suitable and ideal to support the proposed 2-story structure. The structure supported by a pile foundation, such as the augercast pile foundation system, embedded into the Stratum 4 – limestone would have limited settlement.
- As previously mentioned, the underlying Stratum 3 peat and silt are highly compressible. Even minor increases in ground surface elevation (i.e. increased surface loading) could result in significant settlement of any elements not structurally supported on deep foundation. While deep foundations are being provided for support of the proposed 2-story structure, we are of the understanding that the site will also be raised from the current grade of el +4 to +5 to the proposed grade of el +5 to el +8. Hence, the site grade will be raised about 1.0 to 3.5 ft which could result in surface settlements on the order of 6 to 12 inches. Therefore, we recommend that a preloading program be considered to "pre-compress" the site as discussed in detail in the "At-grade Parking/Driveway" section of the report.

For the proposed 2-story structure, considering relatively light loads associated with the structure and based on our experience, 14-inch-diameter 35-ton compressive design augercast piles appropriately embedded into



the Stratum 4 Limestone would be suitable for efficient support of the proposed 2-story structure with limited settlement.

FOUNDATION RECOMMENDATIONS Proposed 2-story Structure

The proposed 2-story structure can be safely supported on short 14-inch-diameter augercast piles with a 35ton design compressive capacity. The augercast piles should be drilled to a minimum 6 ft embedment into the relatively competent Stratum 4 limestone. According to local practice, experience and interpretation of the Florida Building Code, no load testing is required for piles supporting 35 tons or less, if a geotechnical engineering study is performed. Hence, no load testing would be required for this project.

Details of the pile design requirements are summarized as follows:

Pile Size and Type:	14-inch-diameter augercast
Bearing Capacity:	35 tons
Uplift Capacity:	15 tons (for wind loads)
Lateral Capacity: ¹	2.5 tons
Pile Embedment:	6 ft into the relatively competent limestone with approximate tip elevation of el -21 (or 29 ft assuming pile installation working grade at el +8)
Minimum Pile Spacing:	3.5 ft on centers
Minimum Steel Reinforcement:	Four #6 bars extending full length; #3 ties at 6-inch spacing for 10 ft below the pile cap and 12-inch spacing for remaining length.
Grout Compressive Strength:	4,000 lbs/in ²

¹ Assumes about ¼ inch lateral deflection under fix-head condition. If additional lateral capacity is required, piles on a 1H:6V batter could be used.

Due to relatively light load associated with the structure, we anticipate that settlement for the proposed augercast-pile supported structure should be in an order of ½ inch or less.

Ground Floor Slab

The proposed finished ground floor slab will be at el +8, which will be about 2.5 to 3.5 ft higher than the current grade. Considering the presence of a relatively thick, very weak/soft and highly compressible Stratum 3- organic peat and silt material and relatively small footprint of the building, we recommend that a <u>structural slab</u> be used in the design. The following items should be considered in the design and construction for the recommended structural slab approach.

- To minimize the potentially large differential settlement impacts between the pile supported building/structural slab and the abutting at-grade support driveway, an appropriately implemented preload ground improvement program should be performed. This program is discussed in the following section of the report.
- All pipes below floor level should be structurally hung from the slab using appropriate connectors in order to prevent pipe settlement as the ground surface settles away from the slab. Flexible connection should be incorporated into all pipes at the interface between the pile supported structures and the non-pile supported area outside the structure.



To minimize a potentially negative downdrag force being applied to the proposed piles (by the settling upper soils), the process of raising grade to around the proposed grade should be performed as soon as possible and remain in place for at least 4 weeks prior to pile installation. Also, the pile length has been adjusted to account for some negative skin friction loading on the piles.

At-grade Parking/Driveway

The existing site is relatively flat with typical topographic elevations varying from approximately el+4 to el +5. The proposed grade for the surrounding at-grade parking/driveway is expected to be transition from el +8.0 to probably low points of el +5.0. The site would like be raised to about 1 to 3.5 ft. Since the presence of a relatively thick very loose/soft and highly compressible organic peat and silt material (Stratum 3) is near surface, any grade or loading condition changes will cause additional stress into this weak stratum and will result in substantial short and long-term settlements. (Estimated settlements were previously discussed in this report.) Therefore, a preload program as discussed below is recommended to precompress the underlying compressible soils in order to minimize short and long-term settlement, and associated pavement distress, for the proposed at-grade parking/driveway.

Based on the height of fill required to raise grade, the following table provides our recommendations for the preload requirements and surcharge fill heights (above the finished grade):

Height of New Fill to	Preload Surcharge
Raise Grade	Fill Height
(ft)	(ft)
0 to 1	2
1 to 2	3.5
2 to 3.5	5

After raising grade the site to the proposed grade with the engineered fill, we recommend the placement of preload fill (above finished grade) within the limits of the proposed at-grade parking/driveway area plus 5 ft beyond where applicable. If desired, the preloading program can be performed in a piece-meal pattern with at least 5 ft overlap between each phase. A minimum duration of the preload is likely about eight to ten weeks. The preload duration could be reduced if preload height is increased. After completion of the preload process, the at-grade parking/driveway construction may be performed in its typical manner.

OTHER CONSIDERATIONS

Site Preparation, Raising Grade and Preload

The site preparation work is expected to involve demolition of the existing building and removal of any underground foundations and utilities. Stripping and grubbing should be performed, as necessary, to remove asphalt, grass/vegetation/topsoil, and other deleterious materials. After that, the entire site should be graded level and compacted in-placed (proofrolled) with a minimum of six uniform overlapping passes of a 5-ton (static drum weight) vibratory roller, such as an Ingersoll Rand SD-100D, or equivalent. If soft or unstable areas are observed during proofrolling, these materials should be removed and replaced with clean, engineered fill.

Then, raising grade to the proposed grade with the engineered fill should be performed followed by the preload program, where applicable.



Fill for Raising Grade and Engineered Fill

In order to raise grade at the project site, imported fill will be required. All imported fill material shall be <u>certified as environmentally free of contamination</u> by the source providing the fill. We recommend that the engineered fill, as specified herein, be used at the project site.

The engineered fill material should be either on-site or imported, environmentally clean, inorganic granular material with less than 10% fines passing the #200 sieve. The proposed fill should be approved by Langan. The engineered fill should be used to raise grades or to backfill around pile caps. These fills should be placed in lifts no greater than 12 inches thick, and each lift should be compacted to at least 95% of the material's maximum dry density as determined by ASTM D1557. In restricted areas, where a small compactor must be used, the lift thickness should be reduced to 6 to 9 inches, as directed by our inspecting engineer. When backfilling below the water table (if required), crushed ¾-inch filter stone (#57 stone) should be used and tamped in lifts with an excavator bucket. No density tests will be required for the #57 stone.

Utilities

All utilities should be installed per the requirements of Broward County and the Civil Engineer's drawings and specifications.

When backfilling over the utility lines, the engineered fill, as specified above, should be used. If 3/4-inch filterstone or other gravel type material is used as pipe bedding and sandy backfill is placed above, the filterstone and sandy backfill should be separated by a filterfabric (i.e., Mirafi 140N or equivalent) to prevent migration of the sandy material into the voids of the underlying pipe bedding.

Construction Excavation and Dewatering

Properly sloped or benched open-cut excavations, meeting the requirements of OSHA, are expected to be sufficient for the shallow pile cap and grade beam excavations. For those deeper cap excavations (typically greater than 4 ft), a trench box or other means and methods, meeting the OSHA requirements, should be applied where sloping cannot be achieved.

Pile caps deeper than el +1 to el +2 will likely require dewatering to allow for construction. Based on anticipated pile cap bottom elevation, dewatering should not be required for most of pile caps, if not all of pile caps. If the pile caps extend about 1 to 3 ft below the groundwater, dewatering could probably be accomplished with localized sump pumping. To minimize the dewatering efforts, we recommend that pile caps be designed as high as possible.

If dewatering is required, the general contractor should discuss the discharge of pumped water with the Owner and Broward County to determine (1) if discharging pumped water into the County's storm drains is permitted; (2) if on-site disposal of the pumped water is required, and (3) if any special permits are required. Reduction of the turbidity of the discharged water will most likely be required and could be accomplished through the use of temporary baffled sedimentation tanks and or other means, if applicable.

A design of the proposed dewatering system should be prepared by the prospective dewatering contractor. His design should include the equipment, layout strategy, and anticipated pumping capacity. In addition, the general contractor should prepare an excavation procedure, excavation support shoring, pre-stabilization plan, if required. We suggest both of these designs and procedures be submitted to our office for review and comments. A meeting with owner, general contractor, dewatering contractor, and Langan should be scheduled prior to construction to discuss the excavation procedure, the dewatering plan, and other related issues.



TECHNICAL SPECIFICATIONS AND ENGINEERING INSPECTION

A set of technical specifications will be required for production pile installation, site preparation, preloading, earthwork, and foundation preparation. Considering our knowledge of the site, these specifications should be prepared by Langan.

During construction, it is important that all geotechnical related work be done under qualified geotechnical engineering inspection in order to ensure proper procedures are followed. Production piles should be installed under full-time engineering inspection to confirm that the piles are installed properly and to ensure satisfactory performance of the capacity augercast piles. Field observations and prompt engineering decisions must be made to determine the required length of the rock socket, especially if soft rock conditions are encountered. All excavations and backfilling should be inspected and tested by a qualified geotechnical engineer. To insure proper implementation of our recommendations and to maintain the continuity of our responsibility on this project, we strongly recommend that our firm be engaged in the engineering inspection, monitoring, and testing of the foundation-related work during construction.

LIMITATIONS

The foundation alternatives and associated recommendations given herein are our best engineering judgment as to viable foundation support systems for the proposed construction. Final structural loading information should be forwarded to us promptly for review to determine if they would have an impact on the recommendations given in this report. To ensure proper foundation construction, qualified geotechnical engineering inspection must be provided during all foundation-related site preparation and installation work, and earthwork. Our continued involvement in the project is required for us to verify that the recommendations given herein are implemented and to maintain our continuity of responsibility on this project.

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APPENDIX A

LOGS OF TEST BORINGS

LANGAN

LOG OF BORING _____ B-1

SHEET 1 OF 1

PR	PROJECT								PROJECT NO. 220060001									
LOC	CATIO	El	330069001 ELEVATION AND DATUM															
DRI	ILLING	2871 E S EQUIPMENT	Sunrise Blv	d.		D	Approx. + 5 (ft. NAVD88)							COMF	PLETION DEPTH			
<u> </u>		CME-55	Truck Mou	Inted			9/8/20			210		9	/8/20		50 ft.			
012		2-7/8in 1	ricone Rol	ler Bit	T11(0)		SAMP	LES			13	3	-	-	-			
CA	SINGL	2-3/4in		CASING DEP	48		$\begin{array}{c c} \text{WATER LEVEL} & \text{FIRST} & \text{COMPL.} \\ (ft.) & \underline{\nabla} & 4.5 & \underline{\Psi} \end{array}$							<u>I</u> 24 HR. <u>↓</u>				
SAMPLER 2-inch-diameter split spoon								FORE	EMAN Jain	N ne F	Perez	Z						
SAN	MPLEF Au	LER HAMMER WEIGHT(lbs) DROP(in) Automatic 140lbs 30inches							INSPECTING ENGINEER Guriel Zeigerman									
	EV					SYMBO		С.	SA	MPL	E DAT.	A Lline		REM	IARKS			
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Boring terminated at 50 feet

LOG OF BORING

B-2

1

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1

SHEET PROJECT NO. Ft Lauderdale Fire Station 13 330069001 ELEVATION AND DATUM LOCATION Approx. + 4.5 (ft. NAVD88) 2871 E Sunrise Blvd. DRILLING EQUIPMENT DATE STARTED DATE FINISHED COMPLETION DEPTH CME-55 Truck Mounted 9/8/20 9/8/20 50 ft. SIZE AND TYPE OF BIT NUMBER OF DIST. UNDIST. CORE 2-7/8in Tricone Roller Bit 13 SAMPLES CASING DEPTH(ft) COMPL. CASING DIAMETER (in) WATER LEVEL FIRST 24 HR. 2-3/4in 48 (ft.) ∇ ▼ V SAMPLER DRILLING FOREMAN 2-inch-diameter split spoon Jaime Perez DROP(in) 30inches SAMPLER HAMMER WEIGHT(lbs) INSPECTING ENGINEER 140lbs Automatic Guriel Zeigerman SAMPLE DATA REMARKS PENETR. RESIST BL/6in N-VALUE BLOWS PER FT ELEV. SYMBOL DEPTH NUMBER TYPE SAMPLE DESCRIPTION RECO/ (DRILLING FLUID, DEPTH OF CASING, (ft) LOG SCALE 2 FLUID LOSS, DRILLING RESISTANCE, ETC +4.5Approximately 1-2" ASPHALT PAVEMENT 18 13 SS ŝ 8 26 13 Light brown fine SAND and LIMEROCK [FILL] +2.5 11 SS 7 S2 Light brown fine SAND, trace shell and limerock 20 13 6 +0.5 fragments SS SS 1/12 Brown to gray SAND and SILT 8 5 1/12' -1.5 11, SS 2 S4 16 5 3 Brown to dark brown fine SAND, some peat 1/ 1/ -4.0 4 . 12 S5 SS 2 27 15 Gray fine SAND, some shell fragments 10 -7.0 WOH/12 S6 SS 6 1 1 15 Gray to dark gray sandy SILT, trace to some organics VOH/12 SS -14.5 S7 24 50/4" 50/4" 20 Hard drilling SS 15 S8 8 32 17 13 25 Light gray LIMESTONE, some sand 8 SS 6 S9 5 20 14 11 30 5 S10 SS 5 4 11 6 5 35 -32.0 . Light gray silty SAND, trace to some limestone 10 S11 SS 7 24 18 11 26 40 | . Moderate to hard drilling Rig chattering -37.0 50/1 S12 SS 50/1' ~ 45 Light gray LIMESTONE/CEMENTED SAND, Hard drilling Rig chattering some sand 29 ĉ SS 30 19 61 30 31 50/1 S

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LOG OF BORING

B-3

				V									SHEET	1	OF	1
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APPENDIX B

PERCOLATION TEST RESULT SHEET

LANGAN



Fire Station No. 13 - Hugh Taylor Birch State Park





Florida Department of Transportation

RON DESANTIS GOVERNOR

3400 West Commercial Boulevard Fort Lauderdale, FL 33309

KEVIN J. THIBAULT SECRETARY

July 7, 2021

THIS PRE-APPLICATION LETTER IS VALID UNTIL – July 7, 2022 THIS LETTER IS NOT A PERMIT APPROVAL

Alex Scheffer, P.E. Craven Thompson & Associates, Inc. 3563 NW 53rd Street Fort Lauderdale, FL 33309

Dear Craven Thompson & Associates, Inc.:

RE: Pre-application Review for Category B Driveway, Pre-application Meeting Date: April 15, 2021

Broward County - Fort Lauderdale; SR 838; Sec. # 86005000; MP: 0.995; Access Class - 5; Posted Speed - 35; SIS - No; Ref. Project: FM 444120.1-Vandana Nagole-PRELIMINARY ENGINEERING, FM 441754.1- Donovan Pessoa- ATMS - ARTERIAL TRAFFIC MGMT

Request:

- Driveway 1: Maintain existing full access driveway on the north side of SR 838, approximately 20 feet east of the western property line, with a proposed driveway width of 66 feet.
- Driveway 2: Maintain existing full access driveway on the north side of SR 838, approximately 40 feet east of Driveway 1, with a proposed driveway width of 24 feet.

SITE SPECIFIC INFORMATION

Project Name & Address: Fire Station #13 - Building Replacement - 2871 E Sunrise Blvd., Fort Lauderdale, FL 33304 Applicant/Property Owner: City of Fort Lauderdale; Parcel Size: 0.74 Acres Development Size: 8,994 SF Fire Station

WE APPROVE YOUR REQUEST

This decision is based on your presentation of the facts, site plan and survey - please see the conditions and comments below. You may choose to review this concept further with the District Access Management Review Committee (AMRC).

Conditions:

- A minimum driveway length of 25 feet, as measured from the ultimate right-of-way line to the first conflict point shall be provided.
- The existing SR 838 eastbound left turn lane shall be modified to meet the minimum requirements in the Florida Design Manual (FDM). The median nose shall be extended east, and a standard 50-foot taper shall be provided.
- A design variation for the substandard driveway width shall be prepared by the Engineer of Record and submitted to the District Permits Engineer for review and approval.

Comments:

- All driveways not approved in this letter must be fully removed and the area restored.
 A Drainage Permit is required for any stormwater impacts within FDOT right-of-way (i.e. increased runoff or reduction of existing storage).
- The applicant shall donate property to the Department if right-of-way dedication is required to implement the improvements.
- Dimensions between driveways are measured from the near edge of pavement to near edge of pavement and for median openings are measured from centerline to centerline unless otherwise indicated.

The purpose of this Pre-Application letter is to document the conceptual review of the approximate location of driveway(s) to the State Highway System and to note required improvements, if any. This letter shall be submitted with any further reviews and for per mitting. The Department's personnel shall review permit plans for compliance with this letter as well as current Department standards and/or specifications. Final design must consider the existing roadway profile and any impacts to the existing drainage system. <u>Note, this letter</u> <u>does not guarantee permit approval</u>. The permit may be denied based on the review of the submitted engineering plans. Be aware that any approved median openings may be modified (or closed) in the future, at the sole discretion of the Department. For right-of-way dedication requirements go to: <u>https://osp.fdot.gov;</u> click on Statewide Permit News; Scroll down to District 4; Scroll down to Additional Information and Examples and choose Right-of-way Donations/Dedications.

Please contact the Access Management Manager - Tel. #954-777-4363 or e-mail: D4AccessManagement@dot.state.fl.us with any questions regarding the Pre-Approval Letter and Permits Office - Tel. # 954-777-4383 with any questions regarding permits.

Digitally signed by: Sincerelv

Dalila Fernandez Date: 2021.07.07 13:10:46 -04'00'

Jonathan Overton, P.E., Roger Lemieux CC:

Building Replacement/Letter Revision/86005 MP 0.995 SR 838_Fire Station #13_Rev.docx

Dalila Fernandez, P.E. District Access Management Manager File: S:\Transportation Operations\Traffic Operations\Access Management\1. Pre-Apps and Variance\2021-04-15\3. 86005000 MP 0.995 SR 838_Fire Station #13 -

www.dot.state.fl.us

January 2, 2024

Mr. Christopher Cooper, Development Services Department Director City of Fort Lauderdale Development Services Department 700 NW 19th Avenue Fort Lauderdale, FL 33311

RE: FORT LAUDERDALE FIRE STATION 13 UNIFIED LAND DEVELOPMENT CODE NARRATIVES (ULDC SECTIONS 47-24.5 AND 47.25.2) CTA PROJECT NO.: 20-0030-001-01

Dear Mr. Cooper:

CRENEN THO/MPSON



& ASSOCIAJES INC.

Engineers Planners Surveyors Landscape Architects This request is to plat the site located at 2871 E Sunrise Boulevard, Fort Lauderdale, FL in order to construct a fire station to replace of the existing Fire Station No. 13. The site is located within the 178.66 total acres of the Hugh Taylor Birch State Park, owned by the Trustees of the Internal Improvement Fund of the State of Florida. It is located on the north side of E Sunrise Blvd, east of the Intercoastal Waterway, in the City of Fort Lauderdale. The boundary plat lies within Government Lot 6 in Section 36, Township 49 S, Range 42 E, and contains 32,000 square feet (0.735 acres). The Fire Station will lie within folio 494236000010 and the state park is managed by the Florida Department of Environmental Protection Agency.

Below are our responses for compliance to the subject code for Subdivision Regulations and Adequacy Requirements view for the subject plat:

Sec. 47-24.5. Subdivision regulations.

- A. Subdivision approval.
 - 1. Applicability of subdivision regulations. No person shall create a subdivision of land nor develop land in the city unless it conforms to these regulations. A subdivision shall be defined as the division of land into two (2) or more lots, sites, tracts, parcels, tiers, blocks, units or any other division of land; and includes establishment of new streets and alleys, additions, and resubdivisions; and, when appropriate to the context, relates to the process of subdividing or to the lands or area subdivided.

Response: Acknowledged.

2. *Platting required*. Plat or replat means a map or delineated representation of the subdivision of lands. No building permit shall be issued for the construction of a principal building on a parcel of land unless a plat including the parcel or parcels of land has been recorded in the official public records of Broward County subsequent to June 4, 1953 (Commencing at Plat Book 32, page 15), except as provided herein.

Response: Acknowledged.

3. *Exceptions to platting*. The requirements in subsection A.2, shall not apply to an application for a building permit which meets any one (1) or more of the following criteria:

3563 NW 53rd Street Fort Lauderdale, FL 33309-6311 Phone: (954) 739-6400 Fax: (954) 739-6409

- a. Construction of two (2) or fewer residential dwelling units. Applications for two (2) or fewer residential dwelling units on property under the same ownership, within five hundred (500) feet of property exempted within the past twelve (12) months, shall not be exempt.
- b. Construction of any principal structure for a multifamily or nonresidential use on a lot or parcel which is less than ten (10) acres in size and the majority of which is specifically delineated on a plat recorded on or before June 4, 1953;
- c. Construction of a replacement building in which the proposed reconstruction will be utilized for the same general use, is equal to or less

than the gross area of the original principal building and will be located within the same general footprint. (For the purpose of this guideline, "original building" means the total gross floor area devoted to the principal use on a parcel as of November 22, 1978. November 22, 1978, was the effective date of the 1977 Broward County Land Use Plan countywide platting requirement.)

- d. Construction of single-family, infill development that is deed-restricted to affordable housing for a time period of at least fifteen (15) years. For the purposes of this exemption, infill development shall be defined as, "the development of new housing on scattered vacant sites in a built-up area."
- e. A building permit may be issued for a parcel of land for which plat approval has been given by the city commission and the Board of County Commissioners although the plat has not yet been recorded, provided such authorization is granted in an agreement among the developer, the city, and the county. Such agreements shall at a minimum require compliance with the applicable provisions of plat approval and shall prohibit the issuance of a certificate of occupancy until the plat is recorded. The municipality and county shall be required to make a finding that facilities and services will be available at the adopted level of service standards concurrent with the issuance of the building permit; or

Response: A building permit is desired as soon as possible.

- f. A building permit may be issued for an essential governmental facility after preliminary plat review where the Broward County Commission finds that immediate construction of the governmental facility is essential to the health, safety, or welfare of the public and where the board determines that public facilities and services will be available at the adopted level of service standards concurrent with the impact of the development of the governmental facility. Such a finding shall be made in a resolution if Broward County is the government seeking to construct the facility and issue the permit; and by agreement with the affected units of local government in other circumstances. A certificate of occupancy shall not be issued until the plat is recorded. In addition to meeting the above criteria, the issuance of the building permit shall be subject to all of the following:
 - i. Compliance with the applicable land development regulations; and
 - ii. Any land within the lot or parcel which is necessary to comply with the Broward County Trafficways Plan and the city's street width provisions provided in this section has been conveyed to the public by deed or grant of easement.

Response: A building permit is desired as soon as possible.

- 4. *Resubdivision of lots of record*. Division of lots in a subdivision of record shall be permitted as follows:
 - a. Lands platted before June 4, 1953. A lot or parcel specifically delineated in a plat recorded on or before June 4, 1953, which is less than five (5) acres in size and is reduced in size in combination with enlarging an abutting specifically delineated lot or parcel provided the resulting lots satisfy the dimensional requirements of the zoning district in which they are located, as well as these subdivision regulations. In addition, any land within the lot or parcel which is necessary to comply with the Broward County Trafficways Plan must have been conveyed to the public by deed or grant of easement. In addition:

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- i. In the RS-4.4, RS-8 and RD-15 districts lots or parcels may be recombined without replatting provided the resulting lots are not reduced in size below that in the original subdivision of record, except that each unit of a duplex in an RD-15 district may be on a separate lot of three thousand (3,000) square feet.
- ii. In all other districts, lots may be recombined without replatting if no additional building lots or parcels are created.
- b. Lands platted after June 4, 1953. A lot or parcel specifically delineated in a plat recorded after June 4, 1953 which is less than five (5) acres in size and is reduced in size in combination with enlarging an abutting specifically delineated lot or parcel provided the resulting lots satisfy the dimensional requirements of the zoning district in which they are located, as well as these subdivision regulations. In addition, any land within the lot or parcel which is necessary to comply with the Broward County Trafficways Plan must have been conveyed to the public by deed or grant of easement. In addition:
 - i. In the RS-4.4, RS-8 and RD-15 districts lots or parcels may be recombined without replatting provided the resulting lots are not reduced in size below that in the original subdivision of record, except that each unit of a duplex in an RD-15 district may be on a separate lot of three thousand (3,000) square feet.
 - ii. In all other districts, lots may be divided or recombined without replatting.
- c. Lots of record redivided prior to April 6, 1976. Lots in the RS-4.4, RS-8 and RD-15 districts consisting of portions or combinations of portions of lots in a subdivision plat of record redivided prior to April 6, 1976, shall be considered as conforming to these regulations provided they meet the building site requirements of the zoning district. Redivided prior to the above date shall mean: (1) Record ownership of the redivided lots, or portions thereof, was vested prior to said date in two (2) or more individuals; or (2) A building permit was applied for prior to said date on a portion of the redivided lots; provided, however, that not more than two (2) additional permits shall be issued pursuant to this section.
- d. Building permits prior to April 6, 1976. All building permits issued in accordance with the provisions of subsections A.4.a, b, and c, prior to April 6, 1976, are hereby confirmed, ratified, and approved.

Response: Not applicable. The land is not currently platted.

- B. *Procedure for preparation and filing of plats.* Plats shall be reviewed and approved by the city prior to or concurrent with review and approval by the county. The requirements for the preparation of and the procedure for filing of a plat shall be as follows:
 - 1. *Applicant.* The owner of property proposed to be platted.
 - 2. Application to Development Review Committee (DRC).
 - a. An application for plat review shall first be submitted to the department. The department shall forward the application to the DRC for review pursuant to subsection B.4.
 - b. The proposed plat shall be presumed to have the maximum impact on necessary services and facilities permitted under the city's land use plan, as amended. An applicant for a development permit for plat approval may apply for review of a plat at less than the presumed maximum impact and the city shall review that application for impact on services and facilities at the development level requested. The face of each recorded plat shall bear a notation indicating the developmental level at which the plat was reviewed for adequacy of services pursuant to this section. All future development shall be limited to the restrictions indicated by the notation.
 - 3. *Application to planning and zoning board.* An application for plat review and approval by the planning and zoning board and city commission shall be made to the department, upon determination by the DRC of plat conformity with applicable regulations, pursuant to subsection B.5.
 - 4. DRC review process.
 - a. An application for plat review shall be submitted to the department for review by the DRC.
 - b. The DRC shall conduct a meeting to consider the application and the applicant shall have an opportunity to be heard in accordance with the rules of procedure which the DRC shall adopt.

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- c. The DRC shall forward to the applicant a written report of the comments and recommendations discussed at the meeting regarding compliance with the provisions of this section and applicable land development regulations.
- 5. *Planning and zoning board/city commission review process.*
 - a. Upon determination by the DRC of the plat's conformity with applicable regulations, an application for plat review and approval shall be submitted to the department for submittal to the planning and zoning board for review.
 - b. The DRC and the department shall forward its recommendation(s) to the planning and zoning board for consideration.
 - c. During a regular public meeting the planning and zoning board shall consider the application and the record and recommendations forwarded by the DRC and the department and shall hear public comment on the application.
 - d. The planning and zoning board shall determine whether the proposed plat meets the provisions of this section and other applicable land development regulations and shall forward its recommendation to the city commission.
 - e. During a regular public meeting the city commission shall consider the application and the record and recommendations forwarded by the DRC, the department, and the planning and zoning board and shall hear public comment on the application.
 - f. If the city commission determines that the proposed plat satisfies the provisions of this section and other applicable land development regulations, it shall approve the plat by resolution, with or without modification. If the city commission determines that the plat does not satisfy all applicable regulations, it shall deny the plat.
- 6. *City engineer sign-off.*
 - a. The city engineer shall sign the plat after it has been formally approved by the city commission and immediately prior to transmission to the county for recording.

Response: Procedures acknowledged. Plat note will restrict the land to a 16,000 square foot fire station.

- C. Plat technical specifications.
 - 1. The plat submitted for approval shall be clearly and legibly drawn in black waterproof drawing ink upon tracing cloth or an approved drafting film.
 - 2. Plats shall be on sheets twenty-four (24) inches by thirty-six (36) inches overall, with one (1) inch borders on three (3) sides and a three (3) inch border on the left. When the size or shape of the subdivision necessitates more than one (1) sheet, each sheet shall be clearly marked as near as possible to the upper right corner "Sheet No. (_____) of (total) Sheets." All multiple sheet plats shall be clearly cross-referenced to the proper sheet numbers at the match lines and a reasonable portion of the overlapping area shall be shown in outline form. In addition, every plat sheet shall have placed in the upper right corner outside the border "Plat Book Page" for the use of the recorder.
 - 3. The plat shall be at a scale of not more than one hundred (100) feet to the inch and shall include the following information:
 - a. Subdivision name or identifying title including the section(s), township(s), range(s), city, county, and state.
 - b. Location sketch showing location of subdivision with respect to section lines and surrounding streets and landmarks.
 - c. North point, graphic scale and month and year plat drawn.
 - d. Corporate limits when in or adjacent to subdivision.
 - e. Boundary lines of the tract with accurate distances to hundredths of a foot and angles to half minutes. These boundaries shall be determined by accurate survey in the field, which shall be balanced and closed with error closures not to exceed one (1) foot to five thousand (5,000) feet. Surveys shall be coordinated and tied into the nearest established section corner or quarter section corner by angle and distance.

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- f. The exact names, locations, and widths along the property lines of all existing or recorded streets intersecting or paralleling the boundaries of the tract.
- g. The accurate location of all permanent reference monuments.
- h. The exact layout including: street and alley lines, street names, bearings, angles of intersection and widths (including widths along the lines of any obliquely intersecting streets); lengths of area and radius, points of curvature and tangent bearings; all easements owned by or rights-of-way provided for public utilities; all lot lines with dimensions in feet and hundredths, and with bearings or angles if other than right angles to the street and alley lines.
- i. Lots numbered in numerical order within each block or lettered in alphabetical order within each block, and blocks numbered in numerical order or lettered in alphabetical order.
- j. The accurate outline of all property which is to be dedicated or proposed for public use including open drainage courses and suitable easements, and all property that may be reserved by covenants in deeds for the common use of the property owners in the subdivision with the purposes indicated thereon.
- k. A complete description of land intended to be subdivided, and the extent and boundaries of the platted area shall be graphically indicated in a clear and understandable manner.
- I. Names and locations of adjoining subdivisions, the adjacent portions of which shall be shown in outline form.
- m. Acknowledgment by the owner or owners and all mortgage lienholders of lands included within the plat of the execution of same and the dedication to public use of all streets, alleys, parks, easements, and other public places shown upon same.
- n. The certificate of the surveyor attesting to the accuracy of the survey and that the permanent reference monuments have been established according to law.
- o. Space and forms for the following necessary approvals:
 - i. City commission.
 - ii. City planning and zoning board.
 - iii. City engineer.
 - iv. County commission.
 - v. County engineer.
- p. Dedication. The plat shall contain upon the face thereof an unreserved dedication to the public of all streets, highways, alleys, parks, parkways, easements, commons or other public places included within the plat, such dedication to be subscribed to by the legal and equitable owners of such lands and by all persons holding mortgages against such lands, which dedication shall be acknowledged before an officer authorized to take acknowledgments of deeds. Such plat containing such dedication, when properly recorded, shall constitute a sufficient, unrevokable conveyance to vest in the city fee title to the parcel of land dedicated for public use, to be held by the city in trust for the uses and purposes intended, and the approval of the plat by the city commission shall have the force and effect of an acceptance.
- q. *Payment of taxes.* No plat shall be accepted by the city or approved by the city commission unless and until all taxes and improvement liens levied against the lands included in such plat have been paid and discharged.

Response: The plat will include all the above information and meet all the specifications and as noted. The mylar submittal will be drawn in black waterproof ink once the City's comments are addressed. No easements are proposed at this time. This property is exempt from property tax assessment.

- D. Subdivision layout.
 - 1. Streets and alleys.
 - a. *Conformity to trafficways plan.* The location, direction and width of all streets, roads and highways shall conform to the official city plan, and to ordinances of city.

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- b. *Relation to existing street system.* The arrangement of streets in new subdivisions shall make provision for the proper extension of existing dedicated streets in existing subdivisions, where such extension is appropriate. Streets shall bear numerical names, unless waived by the board.
- c. *Provision for platting adjoining unplatted areas.* The arrangement of streets in new subdivisions shall be such as to facilitate and coordinate with the desirable future platting of adjoining unplatted property, and to provide for local circulation and convenient access to neighborhood facilities.
- d. *Protection from through traffic.* Minor and collector residential streets shall be laid out and arranged so as to discourage their use by through traffic.
- e. *Primary arterial street frontage.* Where a residential subdivision abuts a primary arterial street either existing or proposed in the trafficways plan, the board may require marginal access streets, reverse frontage with screen planting contained in a nonaccess reservation along the rear property line, deep lots with or without rear service alleys, or such other treatment as may be necessary for adequate protection of residential properties and to assure separation of through and local traffic.
- f. *Plats adjacent to railroad or expressway right-of-way.* Where a subdivision borders on or contains a right-of-way for a railroad, expressway, drainage canal or waterway, the board may require a street approximately parallel to and on each side of such right-of-way, at a distance suitable for the appropriate use of the intervening land. Such distances shall also be determined with due regard for the requirements of approach grades for future bridges.
- g. *Reserve strips*. Reserve strips controlling access to streets shall be prohibited, except where deemed desirable by the board to prevent use of a residential street by business or industrial traffic.
- h. *Private streets.* There shall be no private streets platted in any subdivision. Every subdivided lot or property shall be served from a publicly dedicated street. This requirement may be waived by the board in special situations where the board finds public safety, convenience and welfare can be adequately served.
- *i.* Half streets. New half or partial streets shall not be permitted, except where it appears reasonable that the owner of adjacent lands will provide the balance of the needed right-of-way upon development of such adjacent lands. Wherever a tract to be subdivided borders on dedicated existing half or partial street the other part of the street shall be taken into consideration in meeting requirements.
- j. *Dead-end streets.* Dead-end streets shall be prohibited, except where appropriate as stubs to permit future street extension into adjoining unsubdivided tracts, or when designed as cul-de-sacs.
- k. Cul-de-sac streets.
 - i. Cul-de-sacs, permanently designed as such, shall not exceed four hundred (400) feet in length, except on finger islands.
 - ii. Cul-de-sacs shall be provided at the closed end with a circular dedicated area not less than seventy (70) feet in diameter for turnaround purposes.
- I. Street rights-of-way.
 - i. Street rights-of-way for expressways, primary arterials, major thoroughfares, and secondary thoroughfares shall conform to the Broward County Trafficways Plan. Other street rights-of-way shall be not less than the following, except when a greater right-of-way is specified in the Broward County Trafficways Plan:

Street Type	Right-of-Way (feet)
Collector	60
Minor, for business, industrial, high density residential	60
Minor, for low and medium density residential	50
Marginal access	50

- ii. Additional right-of-way width may be required to promote public safety and convenience, or to assure adequate access, circulation and parking in high density residential areas, commercial areas, industrial areas, and at intersections with arterial streets, pursuant to DRC review.
- iii. Where a subdivision abuts or contains an existing street of inadequate right-of-way width, additional right-of-way in conformance with the above standards may be required, pursuant to DRC review.
- m. Alleys.
 - i. Alleys shall be provided to serve multiple dwelling, business, commercial and industrial areas, except that the board may waive this requirement where other definite and assured provision is made for service access, off-street loading, unloading, and parking consistent with and adequate for the uses permissible on the property involved.
 - ii. The width of an alley shall be a minimum of twenty (20) feet for two-way travel, and may be less for one-way travel.
 - iii. Changes in alignment of alleys shall be made on a center line radius of not less than thirtyseven (37) feet.
 - iv. Dead-end alleys shall be avoided where possible, but if unavoidable, shall be provided with adequate turnaround facilities for service trucks and other vehicles at the dead-end, with a minimum external diameter of ninety-four (94) feet, or as determined to be adequate by the board.
- n. Easements.
 - i. Dedicated easements across lots or centered on rear or side lot lines shall be provided for public utilities where necessary and shall be at least ten (10) feet in width.
 - ii. Where a subdivision is traversed by a presently existing functional watercourse, drainage way, canal or stream, there shall be provided a stormwater easement or drainage right-of-way conforming substantially with the lines of such watercourses and such further width as will be adequate for the purpose. Parallel streets or parkways may be required in connection therewith where necessary for service or maintenance.
 - iii. Easements may be required for drainage purposes of such size and location as may be determined by the city engineer.
- o. Street alignment.
 - i. Curvilinear streets are recommended for residential minor and collector streets in order to discourage excessive vehicular speeds and to provide attractive vistas, where practicable.
 - ii. Whenever a street changes direction, or connecting street lines deflect from each other, by more than ten (10) degrees, that shall be a horizontal curve.
 - iii. To ensure adequate sight distance, minimum center line radii for horizontal curves shall be as follows:
 - a) Minor streets: one hundred fifty (150) feet.
 - b) Collector streets: three hundred (300) feet.
 - c) Secondary arterial streets and section line roads: five hundred (500) feet.
 - d) Major arterial thoroughfares: seven hundred fifty (750) feet.
 - iv. A tangent at least one hundred (100) feet long shall be provided between reverse curves on collector streets, and at least two hundred fifty (250) feet long on major and secondary arterial thoroughfares and section line roads.
- p. Street intersections.
 - i. Streets shall be laid out to intersect as nearly as possible at right angles. No street shall intersect another at an angle of less than sixty (60) degrees, except at a "Y" intersection of two (2) minor streets.
 - ii. Multiple intersections involving junction of more than two (2) streets shall be prohibited except where found to be unavoidable by the board.
 - iii. "T" intersections of minor and collector streets are to be encouraged.

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- iv. As far as possible, intersections with arterial streets shall be located not less than eight hundred (800) feet apart, measured from center line to center line.
- v. Streets entering opposite sides of another street shall be laid out directly opposite each other or with a minimum offset of one hundred twenty-five (125) feet between their center lines.
- vi. Right-of-way lines at street intersections shall be in conformance with the following minimum criteria:
 - a) The right-of-way line shall be the chord of a twenty (20) foot radius for the intersection of two (2) minor streets.
 - b) The right-of-way line shall be the chord of a twenty-five (25) foot radius for the intersection of a minor and a major street.
 - c) The right-of-way line shall be the chord of a thirty (30) foot radius for the intersection of two (2) major streets.

Where the angle of intersection is less than sixty (60) degrees, the chord of a greater radius may be required by the board. The board may waive the requirement for a chord at the intersection of two (2) minor streets when that requirement has also been waived by the city engineer; however, the minimum radius of the right-of-way shall be twenty (20) feet.

q. Excessive street widths. Streets shall not be platted to a width more than one hundred fifty percent (150%) of the minimum width specified in these regulations for the type of street involved. No street shall be platted for center median development except where such center median may be desirable or necessary for traffic separation and safety, and aesthetics as determined by the board.

Response: E Sunrise Boulevard is shown on the Broward County trafficways plan as a 120' arterial. There is currently 140'-150' of existing right-of-way, so no dedication is needed. No new streets or reserve strips are proposed. Subsections b, c, d, and e are not applicable since this is not a residential subdivision. The plat is not adjacent to a railroad or expressway right-of-way. Access to the site will be directly from E. Sunrise Boulevard. All other above standards are acknowledged.

- 2. Blocks.
 - a. The lengths, widths, and shapes of blocks shall be determined with due regard to:
 - i. Provision of adequate building sites, suitable to the special needs of the type of use contemplated.
 - ii. Zoning requirements as to lot sizes and dimensions.
 - iii. Needs for convenient and safe access, circulation, control of pedestrian and vehicular traffic.
 - iv. Limitations and opportunities of topographic features.
 - b. Block lengths shall not exceed one thousand three hundred twenty (1,320) feet nor be less than five hundred (500) feet, unless found unavoidable by the board.
 - c. Pedestrian crosswalks, not less than ten (10) feet in width, may be required through blocks over one thousand (1,000) feet in length, where necessary in the judgment of the board to provide safe and convenient access to schools, playgrounds, shopping centers, transportation, or other community facilities.

Response: Not applicable. The plat is a boundary plat.

- 3. Lots.
 - a. The lot arrangement and design shall be such that all lots will provide satisfactory and desirable building sites, properly related to topography and to the character of surrounding development.
 - b. Lot dimensions and areas shall be not less than specified by applicable provisions of the zoning regulations in effect, and shall further conform to these regulations
 - c. Lots for detached single family and duplex dwellings shall provide lot sizes not less than the following:
 - i. In the RS-4.4 district, lot area of ten thousand (10,000) square feet and width of one hundred (100) feet.

- ii. In the RS-8 district, lot area of seven thousand five hundred (7,500) square feet and width of seventy-five (75) feet.
- iii. In the RD-15, RC-15, RM-15, RML-25, RMM-25, RMH-25 and RMH-60 districts, lot area of seven thousand five hundred (7,500) square feet and width of seventy-five (75) feet.
- d. It is recommended that corner lots for residential use have such additional width, greater than a corresponding interior lot, as may be necessary to provide appropriate building setbacks and orientation to both streets.
- e. Side lot lines shall be substantially at right angles or radial to street lines.
- f. Double frontage and reverse frontage lots for residential use shall be avoided, except where essential to provide separation of residential development from traffic arteries or to overcome specific handicaps of topography and orientation. A planting strip of at least ten (10) feet, and across which there shall be no right of access, shall be provided along the line of lots abutting such a traffic artery or other disadvantageous situation.
- g. Street frontage. Every lot shall abut upon and have permanent access to a public street.
- h. Lot arrangement and design shall be properly related to topography, to nature of contiguous property and to the character of surrounding development. Where existing lots are replatted or the size and shape of a tract to be platted makes conformance with the provisions of these subdivision regulations unreasonable and impracticable in the judgment of the planning and zoning board, the board is hereby authorized to vary the requirement in appropriate cases in such manner as to carry out the spirit and purpose of the subdivision regulations.

Response: There are no lots proposed by the plat.

4. *Canals.* Canals and waterways, other than drainage ditches, shall be dedicated to public use. Canals shall be not less than sixty (60) feet in width. Canals which connect to navigable waterways shall have a center line water depth of at least nine (9) feet at mean high tide, or if not subject to tidal flow shall have a center line water depth of at least six and one-half (6½) feet at all times.

Response: Not Applicable. No canals proposed.

- E. Required subdivision improvements.
 - Preparation of plans. Receipt of the signed copy of the approved preliminary plat is authorization for the subdivider to proceed with the plans and specification for the minimum improvements required under this section and with the preparation of the final plat. Prior to the construction of any improvements required or to the submission of a bond in lieu thereof, the subdivider shall furnish the city engineer all plans, information, and data necessary to determine the character of said improvements and compliance with city standards and specifications. These plans shall be examined by the city engineer and will be approved if in accordance with all requirements. Following this approval, construction can be started, or the amount of a bond determined. Construction shall be subject to supervision of the city engineer.
 Response: Acknowledged.
 - 2. Subdivision improvements bond. No final plat of any subdivision shall be approved unless the subdivider shall file with the city a surety bond executed by a surety company authorized to do business in the state and having a resident agent in the county, conditioned to secure the construction of the improvements required under this section, in a satisfactory manner and within a time period specified by the city commission, such period not to exceed two (2) years. No such bond shall be accepted unless it is enforceable by or payable to the city in a sum at least equal to one and one-half (1½) times the cost of constructing the improvements as estimated by the city engineer and in form with surety and conditions approved by the city attorney. In lieu of a bond, cash deposit or other acceptable security may be made. In case of forfeiture, the city shall proceed with the improvements to the extent of the available money realized from such forfeiture.

Response: Acknowledged.

- 3. Subdivision improvements required. The following minimum subdivision improvements shall be provided and installed by the subdivider, provided that the city commission may waive the provision or installation of such portions of these improvements by the subdivider on or in streets on the exterior boundary or perimeter of the subdivision, under one (1) of the following circumstances: Where the city commission finds that it would be unreasonable and inequitable to require the subdivider to be responsible for the entire cost of such improvements and the commission finds there is a reasonable probability that the remaining portion of such improvements will be provided through the subdividing of the contiguous property, or where the city commission finds that such improvements can be reasonably and satisfactorily provided through special assessments for local improvements:
 - a. *Monuments.* The subdivider shall provide and install monuments as follows:
 - i. At intersection of center lines of all streets, install a one-inch pipe, three (3) feet long, embedded in concrete, top flush with finished pavement.
 - ii. Permanent reference monuments as required by Florida Plat Law.
 - b. *Grading*. All streets, crosswalks and alleys shall be graded to their full width by the subdivider in accordance with city specifications. Due to special topographical conditions, deviation from the above will be allowed only with special approval of the city engineer.
 - c. Storm drainage. An adequate drainage system, including necessary open ditches, pipes, culverts, intersectional drains, drop inlets, bridges, etc., shall be provided by the subdivider for the proper drainage of all surface water. In cases where a subdivision is located at such a distance from waterways, main drains, or drainage canals that the board finds a complete storm drainage system for the subdivision to be impracticable and unreasonable, the board may waive or reduce this requirement.
 - d. Paving.
 - i. All streets of a subdivision shall be paved by the subdivider in full accordance with specifications of the city.
 - ii. *Minimum widths.* All minor and collector streets in residential areas shall be paved to a minimum width of thirty (30) feet and provided with concrete curbs and gutters where storm drainage is required. Where storm drainage is waived by the board, the minimum pavement width shall be twenty-four (24) feet and there shall be no curbs and gutters. On primary arterials, major thoroughfares, and secondary thoroughfares where storm drainage is required the subdivider shall have the option of providing the minimum twenty-four-foot pavement without curbs and gutters, or providing curbs and gutters with a pavement in excess of thirty (30) feet as determined by the city engineer.
 - e. Sidewalks.
 - i. Sidewalks shall be installed on both sides of all streets designated as primary arterials, major thoroughfares, and secondary arterials, and for streets zoned or intended for business or industrial development, unless deemed unnecessary for pedestrian travel by the board.
 - ii. Sidewalks shall be installed on both sides of all streets in residential areas, except that the board may modify this requirement where it can be shown that they are not needed for the protection of pedestrians and school children.
 - iii. All sidewalks shall be at least five (5) feet in width, constructed of portland cement concrete, and constructed to the specifications of the city. Sidewalks of greater width may be required on major streets and heavy pedestrian travel areas as provided for in this section.
 - iv. The board, upon recommendation of the city engineer, may waive the requirement for sidewalks on streets where the average width of lots is two hundred (200) feet or more, or where a park, railroad, canal, or other use on one (1) side of a street makes a sidewalk not essential for safety of pedestrians, or where the requirement for sidewalks would cause a storm drainage problem in a location where the requirement for storm drainage has been found impracticable by the board, or on finger islands where they are deemed impracticable by the board.

- v. Where it appears that a previously dedicated street forms a boundary of a subdivision, the subdivider must dedicate proper sidewalk areas upon the side of the street abutting the lands subdivided.
- f. *Water supply system.* Water mains properly connected with the city water supply system shall be provided by the subdivider in such a manner as to adequately serve all lots shown on the subdivision plat for both domestic use and fire protection. Water mains shall be designed and installed by or under the supervision of the city engineer.
- g. Sanitary sewers. Sanitary sewers shall be installed by the subdivider in areas where a sanitary sewerage system is available or has been authorized and financed. Such sanitary sewers, mains and laterals shall be properly connected to a city sewage disposal system or arranged for suitable future connection, and shall be designed by a registered engineer, subject to the approval of the city engineer. The installation shall be made under the supervision and inspection of the city engineer. Expense of design, supervision and inspection of the sewage disposal system shall be borne by the developer. In addition to sewer mains, laterals shall be installed to each platted lot and stubbed off at the property line for future connection. The sanitary sewer system shall also be subject to the approval of the state board of health. The use of individual septic tanks in lieu of a sanitary sewer system shall not be permitted without county health department approval, and only in cases where connection to the sanitary sewerage system is impracticable.
- h. *Canals and waterways.* All canals and other dedicated waterways shall be excavated by the subdivider to the width and length shown on the plat, and to the minimum depth specified in this section.

Response: Acknowledged.

F. *Recordation and expiration of plat.* Proof must be submitted to the city commission prior to the adoption of a resolution approving the plat that the persons signing the plat and executing the dedication are all of the owners of all of the property platted or replatted. The approval of all persons holding mortgage liens against any property platted or replatted shall appear upon the plat. Such plat or replat must be recorded in the official records of the county within three (3) years after the adoption of the resolution approving same; otherwise, the approval is automatically rescinded and canceled, and the plat shall become null and void.

Response: Acknowledged.

Sec. 47-25.2. Adequacy requirements.

A. Applicability. The adequacy requirements set forth herein shall be used by the city to evaluate the demand created on public services and facilities created by a proposed development permit.

Response: Acknowledged.

B. Communications network. Buildings and structures shall not interfere with the city's communication network. Developments shall be modified to accommodate the needs of the city's communication network, to eliminate any interference a development would create or otherwise accommodate the needs of the city's communication network within the development proposal.

Response: Acknowledged. It is not anticipated that any structures would be tall enough to interfere with the city's communications network.

C. *Drainage facilities.* Adequacy of stormwater management facilities shall be evaluated based upon the adopted level of service requiring the retention of the first inch of runoff from the entire site or two and one-half (2½) inches of runoff from the impervious surface whichever is greater.

Response: Acknowledged. Application shall be made to Broward County for approval of the Project's stormwater management facilities prior to building permit approval.

D. Environmentally sensitive lands.

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- 1. In addition to a finding of adequacy, a development shall be reviewed pursuant to applicable federal, state, regional and local environmental regulations. Specifically, an application for development shall be reviewed in accordance with the following Broward County Ordinances which address environmentally sensitive lands and wellfield protection which ordinances are incorporated herein by reference:
 - a. Broward County Ordinance No. 89-6.
 - b. Section 5-198(I), Chapter 5, Article IX of the Broward County Code of Ordinances.
 - c. Broward County Ordinance No. 84-60.
- 2. The applicant must demonstrate that impacts of the proposed development to environmentally sensitive lands will be mitigated.

Response: Acknowledged.

E. *Fire protection.* Fire protection service shall be adequate to protect people and property in the proposed development. Adequate water supply, fire hydrants, fire apparatus and facilities shall be provided in accordance with the Florida Building Code, South Florida Fire Code and other accepted applicable fire and safety standards.

Response: Acknowledged.

- F. Parks and open space.
 - 1. The manner and amount of providing park and open space is as provided in Section 47-38A, Park Impact Fees, of the ULDR.
 - 2. No building permit shall be issued until the park impact fee required by Section 47-38A of the ULDR has been paid in full by the applicant.

Response: Acknowledged.

G. *Police protection.* Police protection service shall be adequate to protect people and property in the proposed development. The development shall provide improvements which are consistent with Crime Prevention Through Environmental Design (CPTED) to minimize the risk to public safety and assure adequate police protection.

Response: Acknowledged.

- H. Potable water.
 - 1. Adequate potable water service shall be provided for the needs of the proposed development. The proposed development shall be designed to provide adequate areas and easements which may be needed for the installation and maintenance of potable water systems in accordance with city engineering standards, the Florida Building Code, and applicable health and environmental regulations. The existing water treatment facilities and systems shall have sufficient capacity to provide for the needs of the proposed development and for other developments in the service area which are occupied, available for occupancy, for which building permits are in effect or for which potable water treatment capacity has been reserved. Capital expansion charges for water and sewer facilities shall be paid by the developer in accordance with Resolution 85-265, as it is amended from time to time. Improvements to the potable water service and system shall be made in accordance with city engineering standards and other accepted applicable engineering standards.

Response: Acknowledged, applicant has already made the request for a water/wastewater capacity letter from the City's Public Works Department and will provide the letter to the City upon receipt.

- 2. Potable water facilities.
 - a. If the system is tied into the city treatment facility, the available capacity shall be determined by subtracting committed capacity and present flow from design capacity. If there is available capacity, the city shall determine the impact of the proposed development utilizing Table 3, Water and Wastewater, on file with the department.

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- b. If there is adequate capacity available in the city treatment plant to serve the proposed development, the city shall reserve the necessary capacity to serve the development.
- c. Where the county is the projected service provider, a similar written assurance will be required. Response: Acknowledged, applicant has already made the request for a water/wastewater capacity letter from the City's Public Works Department and will provide the letter to the City upon receipt.

I. Sanitary sewer.

- 1. If the system is tied into the city treatment facility, the available capacity shall be determined by subtracting committed capacity and present flow from the design capacity. If there is available capacity, the city shall determine the impact of the proposed development utilizing Table 3, Water and Wastewater, on file with the department.
- 2. If there is adequate capacity available in the city treatment plant to serve the proposed development, the city shall reserve the necessary capacity to serve the proposed development.
- 3. Where the county is the projected service provider, a written assurance will be required.
- 4. Where septic tanks will be utilized, the applicant shall secure and submit to the city a certificate from the Broward County Health Unit that certifies that the site is suitable for an on-site sewage disposal system for the proposed use.

Response: Above statements are acknowledged. Applicant has already made the request for a water/wastewater capacity letter from the City's Public Works Department and will provide the letter to the City upon receipt.

J. *Public Schools.* For all development including residential units, the applicant shall be required to mitigate the impacts of such development on public school facilities in accordance with the Broward County Land Development Code or section 47-38C. Educational Mitigation, as applicable and shall provide a school capacity availability determination letter (SCAD) from Broward County Public Schools indicating that either the requirements of public school concurrency have been satisfied or that the application is exempt or vested pursuant to Section 47-38C.2 of the ULDR to the city prior to the issuance of a development permit.

Response: Acknowledged. The proposed plat does not include residential units and therefore will not generate school seats nor education mitigation.

- K. Solid waste.
 - 1. Adequate solid waste collection facilities and service shall be obtained by the applicant in connection with the proposed development and evidence shall be provided to the city demonstrating that all solid waste will be disposed of in a manner that complies with all governmental requirements.

Response: Acknowledged, applicant has requested an adequacy determination from the city.

 Solid waste facilities. Where the city provides solid waste collection service and adequate service can be provided, an adequacy finding shall be issued. Where there is another service provider, a written assurance will be required. The impacts of the proposed development will be determined based on Table 4, Solid Waste, on file with the department.

Response: Acknowledged. Applicant will request an adequacy determination from the city.

L. Stormwater. Adequate stormwater facilities and systems shall be provided so that the removal of stormwater will not adversely affect adjacent streets and properties or the public stormwater facilities and systems in accordance with the Florida Building Code, city engineering standards and other accepted applicable engineering standards.

Response: Acknowledged. Stormwater will be retained on site in accordance with the Broward County Department of Environmental Regulation.

M. Transportation facilities.

- 1. The capacity for transportation facilities shall be evaluated based on Table 1, Generalized Daily Level of Service Maximum Volumes, on file with the department. If a development is within a compact deferral area, the available traffic capacity shall be determined in accordance with Table 2, Flowchart, on file with the department.
- 2. Regional transportation network. The regional transportation network shall have the adequate capacity, and safe and efficient traffic circulation to serve the proposed development. Adequate capacity and safe and efficient traffic circulation shall be determined by using existing and site-specific traffic studies, the adopted traffic elements of the city and the county comprehensive plans, and accepted applicable traffic engineering standards. Site-specific traffic studies may be required to be made and paid for by the applicant when the city determines such a study is needed in order to evaluate the impacts of the proposed development on proposed or existing roadways as provided for in subsection M.4. An applicant may submit such a study to the city which will be considered by the DRC in its review. Roadway improvements needed to upgrade the regional transportation network shall be made in accordance with the city, the county, and Florida Department of Transportation traffic engineering standards and plans as applicable.
- 3. Local streets. Local streets shall have adequate capacity, safe and efficient traffic circulation, and appropriate functional classification to serve the proposed development. Adequate capacity and safe and efficient traffic circulation shall be determined by using existing and site-specific traffic studies, the city's comprehensive plan and accepted applicable traffic engineering standards. Site-specific traffic studies may be required to be made and paid for by the applicant when the city determines such a study is required in order to evaluate the impact of the proposed development on proposed or existing roadways as provided for in subsection M.4. An applicant may submit to the city such a study to be considered as part of the DRC review. Street improvements needed to upgrade the capacity or comply with the functional classification of local streets shall be made in accordance with the city engineering standards and acceptable applicable traffic engineering standards. Local streets are those streets that are not classified as federal, state or county roadways on the functional classification map adopted by the State of Florida.
- 4. Traffic impact studies.
 - a. When the proposed development may generate over one thousand (1,000) daily trips; or
 - b. When the daily trip generation is less than one thousand (1,000) trips; and (1) when more than twenty percent (20%) of the total daily trips are anticipated to arrive or depart, or both, within one-half (½) hour; or (2) when the proposed use creates varying trip generation each day, but has the potential to place more than twenty percent (20%) of its maximum twenty-four (24) hour trip generation onto the adjacent transportation system within a one-half (½) hour period; the applicant shall submit to the city a traffic impact analysis prepared by the county or a registered Florida engineer experienced in trafficways impact analysis which shall:
 - i. Provide an estimate of the number of average and peak hour trips per day generated and directions or routes of travel for all trips with an external end.
 - ii. Estimate how traffic from the proposed development will change traffic volumes, levels of service, and circulation on the existing and programmed trafficways.
 - iii. If traffic generated by the proposed development requires any modification of existing or programmed components of the regional or local trafficways, define what city, county or state agencies have programmed the necessary construction and how this programming relates to the proposed development.
 - iv. A further detailed analysis and any other information that the review committee considers relevant.
 - v. The traffic impact study may be reviewed by an independent licensed professional engineer contracted by the city to determine whether it adequately addresses the impact, and the study supports its conclusions. The cost of review by city's consultant shall be reimbursed to the city by the applicant.

- vi. When this subsection M.4.b. applies, the traffic study shall include an analysis of how the peak loading will affect the transportation system including, if necessary, an operational plan showing how the peak trips will be controlled and managed.
- 5. *Dedication of rights-of-way.* Property shall be conveyed to the public by plat, deed or grant of easement as needed in accordance with the Broward County Trafficways Plan, the city's comprehensive plan, subdivision regulations and accepted applicable traffic engineering standards.
- 6. Pedestrian facilities. Sidewalks, pedestrian crossing, and other pedestrian facilities shall be provided to encourage safe and adequate pedestrian movement on-site and along roadways to adjacent properties. Transit service facilities shall be provided for as required by the city and Broward County Transit. Pedestrian facilities shall be designed and installed in accordance with city engineering standards and accepted applicable engineering standards.
- 7. *Primary arterial street frontage.* Where a proposed development abuts a primary arterial street either existing or proposed in the trafficways plan, the development review committee (DRC) may require marginal access street, reverse frontage with screen planting contained in a nonaccess reservation along the rear property line, deep lots with or without rear service alleys, or such other treatment as may be necessary for adequate protection of residential properties and to assure separation of through and level traffic.
- 8. Other roadway improvements. Roadways adjustments, traffic control devices, mechanisms, and access restrictions may be required to control traffic flow or divert traffic, as needed to reduce, or eliminate development generated traffic.
- 9. Street trees. In order to provide for adequate landscaping along streets within the city, street trees shall be required along the length of the property abutting a street. A minimum of fifty percent (50%) of the required street trees shall be shade trees, and the remaining street trees may be provided as flowering or palm trees. These percentages may be varied based on existing or proposed physical conditions which may prevent the ability to comply with the street tree requirements of this subsection. The street trees shall be planted at a minimum height and size in accordance with the requirements of Section 47-21, Landscape and Tree Preservation Requirements, except in the downtown RAC districts the requirements of Sec. 47-13.20.H.8 shall apply. The location and number of street trees shall be determined by the department based on the height, bulk, mass, and design of the structures on the site and the proposed development's compatibility to surrounding properties. The requirements for street trees, as provided herein, may be located within the public right-of-way as approved by the entity with jurisdiction over the abutting right-of-way.

Response: All traffic related requirements are acknowledged. A traffic impact statement is not needed as no local streets are included within this plat. A traffic study will be provided if required.

- N. Wastewater.
 - 1. *Wastewater*. Adequate wastewater services shall be provided for the needs of the proposed development. The proposed development shall be designed to provide adequate areas and easements which may be needed for the installation and maintenance of a wastewater and disposal system in accordance with applicable health, environmental and engineering regulations, and standards. The existing wastewater treatment facilities and systems shall have adequate capacity to provide for the needs of the proposed development and for other developments in the service area which are occupied, available for occupancy, for which building permits are in effect or for which wastewater treatment or disposal capacity has been reserved. Capital expansion charges for water and sewer facilities shall be paid by the developer in accordance with Resolution 85-265, as it is amended for time to time. Improvements to the wastewater facilities and system shall be made in accordance with the city engineering and accepted applicable engineering standards.

Response: Acknowledged. Applicant has requested a water/wastewater capacity letter from the City's Public Works Department and will provide the letter to the City upon receipt.

Trash management requirements. A trash management plan shall be required in connection with non-О. residential uses that provide prepackaged food or beverages for off-site consumption. Existing non-residential uses of this type shall adopt a trash management plan within six (6) months of the effective date of this provision.

Response: Acknowledged.

- Ρ. Historic and archaeological resources.
 - If a structure or site has been identified as having archaeological or historical significance by any entity 1. within the State of Florida authorized by law to do same, the applicant shall be responsible for requesting this information from the state, county, local governmental or other entity with jurisdiction over historic or archaeological matters and submitting this information to the city at the time of, and together with, a development permit application. The reviewing entity shall include this information in its comments.

Response: Acknowledged, this project is being rebuilt on the original site.

Q. Hurricane evacuation. If a structure or site is located east of the Intracoastal Waterway, the applicant shall submit documentation from Broward County or such agency with jurisdiction over hurricane evacuation analysis either indicating that acceptable level of service of hurricane evacuation routes and hurricane emergency shelter capacity shall be maintained without impairment resulting from a proposed development or describing actions or development modifications necessary to be implemented in order to maintain level of service and capacity.

Response: Documentation will be provided from Broward County upon their review.

Should you have any questions or comments, please contact me at (954) 739-6400 or by email at medge@craventhompson.com.

Sincerely,

CRAVEN THOMPSON & ASSOCIATES, INC.

Mathew R. Edge, CNU-A

Planner

	Notice	e of Ad Valorem Tax a	and Non-Ad	Valorem Asses	ssments	-010
Property ID Numb	er Escrow Code	Assessed Value	Exemption	ons Taxable	Value M	lillage Code
494236-00-0010)	See Below	See Below See Below			0312
TIITF/DNR DIV REC & HUGH TAYLOR BIRCH DEP DOUGLAS BLDG FALLAHASSEE, FL 3 2871 E SUNRISE BLVD 36-49-42 -OT 1 LESS PAR 1 & 3 A	PARKS 1 ST PARK 32399 S IN PB		P D	AYMENTS MUST RAWN ON US BA	BE MADE IN US NK ACCOUNT.	FUNDS AND
7/13,PT OF LOT 2 LYING	G E OF					
		AD VA		S		-
		Millage A	ssessed Val	Exemptions	Taxable Val	I axes Levie
		5,54920	39.661 220	39.661.220	0	0.0
VOTED DEBT		0.11980	39,661,220	39,661,220	Ő	0.0
GENERAL FUND	OOL BOARD	4 92600	39 661 220	39 661 220	Ο	0.0
CAPITAL OUTLAY		1.50000	39,661,220	39,661,220	0	0.0
		0.18960	39,661,220	39,661,220	Ō	0.0
EVERGLADES C.P.		0.03270	39.661.220	39.661.220	0	0.0
OKEECHOBEE BAS	SIN	0.10260	39,661,220	39,661,220	0	0.0
SFWMD DISTRICT		0.09480	39,661,220	39,661,220	0	0.0
CHILDREN'S SVCS (COUNCIL OF BC	0.45000	39,661,220	39,661,220	ŏ	0.0
		1 11030	30 661 220	30 661 220	Δ	
DEBT SERVICE		0.27370	39,661,220	39,661,220	0	0.0
FL INLAND NAVIGAT	TION	0.02880	39,661,220	39,661,220	0	0.0
	Total N	lillage: 18.81720)	Ad Valo	orem Taxes:	\$0.0
Levying Authority		NON-AD	VALOREM T	AXES Rate		Amount
Levying Authority	Total N	lillage: 18.8172(NON-AD) VALOREM TA	Ad Valc AXES _{Rate}	orem Taxes:	
			Ν	Ion-Ad Valorem Ass	sessments:	\$0
			Comb	ined Taxes and As	sessments:	\$0.0
If Postmarked By	Nov 30, 2023					

Notice of Ad Valorem Tax and Non-Ad Valorem Assessments

Make checks payable to:

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BROWARD COUNTY TAX COLLECTOR GOVERNMENTAL CENTER ANNEX 115 S. ANDREWS AVENUE, ROOM # A100 FORT LAUDERDALE, FL 33301-1895

Property ID Number 494236-00-0010

PAY YOUR TAXES ONLINE AT: broward.county-taxes.com

If Postmarked By	Please Pay	R
Nov 30, 2023	\$0.00	eturn
		with
		Pay
		ment

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PAYMENTS MUST BE MADE IN US FUNDS AND DRAWN ON US BANK ACCOUNT

TIITF/DNR DIV REC & PARKS HUGH TAYLOR BIRCH ST PARK DEP DOUGLAS BLDG TALLAHASSEE, FL 32399

Please Pay Only One Amount



ADDRESS VERIFICATION

CONTACT: Devon Anderson Phone: 954-828-5233 Email: DAnderson@fortlauderdale.gov

PROJECT ADDRESS: 1300, 1600 NW 31 AVE, 33311

PREVIOUS ADDRESS: 1300, 1600 NW 31 AVE, 33311

NOTES: PLOT PLAN

ZONING: B-2

FOLIO #: 494232000110, 494232000120

LEGAL DESCRIPTION: 32-49-42 SW1/4 OF NW1/4,LESS W 57,LESS PT DESC AS BEG AT INTERSEC OF N/L OF SW1/4 OF NW1/4 & 57 E OF W/L OF SEC 32,NELY ALG N/L OF SW1/4 OF NW1/4 1.46,S 75.43 TO POINT 57 E OF W/L OF SEC 32,NLY 75.39 TO POB K/A WINGATE 32-49-42 N1/2 OF NW1/4 OF SW1/4,LESS W 57,LESS E 43 OF W 100 OF S 25,& LESS PT SWLY OF ARC OF A CURVE WITH RADIUS OF 25 BEING TANGENT TO A LINE 25 N OF S/L OF N1/2 OF NW1/4 OF SW1/4 & BEING TANGENT TO A LINE 57 E OF W/L OF SEC 32 K/A WINGATE

DRC #:		\sim	A	
AUTHOR	IZED SIGNATURE:	A		
DATE:	06/22/2022			

700 NW 19TH AVENUE, FORT LAUDERDALE, FLORIDA 33311 • 954-828-6520

PROPERTY SUMMARY

Tax Year: 2023 Property ID: 494236000010 Property Owner(s):TIITF/DNR DIV REC & PARKS HUGH TAYLOR BIRCH ST PARK Mailing Address:DEP DOUGLAS BLDG TALLAHASSEE, FL 32399 Physical Address:3109 E SUNRISE BOULEVARD FORT LAUDERDALE, 33305

Property Use: 82-02 Forest, parks, recreational areas - State Millage Code: 0312 Adj. Bldg. S.F: 23127 Bldg Under Air S.F: Effective Year: 1972 Year Built: 1968 Units/Beds/Baths: 2 / / Deputy Appraiser: Commercial Department Appraisers Number: 954-357-6835 Email: commercialtrim@bcpa.net Zoning : P - PARKS RECREATION AND OPEN SPACE Abbr. Legal Des.: 36-49-42 LOT 1 LESS PAR 1 & 3 AS IN PB 17/13,PT OF LOT 2 LYING E OFINTRACOASTAL W/W R/W ALSO THAT PT OF NEW RIVER SOUND IN NE1/4 OF SEC 36 LYING E OF INTRACOASTAL W/W R/W & PT OF LOT 5 LYING E OF INTRA W/W R/W, LOT 6 LESS PAR 6 AS IN PB 17/13 & LESS RD R/W,ALSO THAT PT OF NEW RIVER SOUND IN THE SE1/4 LYING E OF INTRACOASTAL W/W R/W

PROPERTY ASSESSMENT

Year	Land	Building / Improvement	Agricultural Saving	Just / Market Value	Assessed / SOH Value	Тах
2023	\$37,799,210	\$1,862,010	0	\$39,661,220	\$39,661,220	
2022	\$37,799,210	\$1,862,010	0	\$39,661,220	\$39,661,220	
2021	\$37,799,210	\$1,862,010	0	\$39,661,220	\$38,724,640	

EXEMPTIONS AND TAXING AUTHORITY INFORMATION

	County	School Board	Municipal	Independent
Just Value	\$39,661,220	\$39,661,220	\$39,661,220	\$39,661,220
Portability	0	0	0	0
Assessed / SOH	\$39,661,220	\$39,661,220	\$39,661,220	\$39,661,220
Granny Flat				
Homestead	0	0	0	0
Add. Homestead	0	0	0	0
Wid/Vet/Dis	0	0	0	0
Senior	0	0	0	0
Exemption Type	\$39,661,220	\$39,661,220	\$39,661,220	\$39,661,220
Affordable Housing	0	0	0	0
Taxable	0	0	0	0
laxable	Ŭ.	0	0	

SALES HISTORY FOR	THIS PARCEL	LAND CALCULATIONS				
Date	Туре	Price	Book/Page or Cin	Unit Price	Units	Туре
				\$10.00	3,779,921 SqFt	Square Foot

RECENT SALES IN THIS SUBDIVISION

100

Property ID	Date	Ту	/pe	Q	ualified/ Di	squalified	Price		CIN		Property Address
494236000085	07/11/2021	Warran	ity Deed		Qualified Sale		\$2,950,0	00	117430176	1555 N FEDERAL	HWY FORT LAUDERDALE, FL 33304
494236000050	07/11/2019	Warran	ity Deed		Qualified Sale		\$4,000,0	00	115937641	1620 N FEDERAL	HWY FORT LAUDERDALE, FL 33305
494236000086	00086 04/12/2019 Warranty Deed			Disqualified Sale		\$4,100,0	00	115739924	1431 N FEDERAL	- HWY FORT LAUDERDALE, FL 33304	
494236000085	10/30/2018 Warranty Deed			Qualified Sale		\$2,900,0	00	115425782	1555 N FEDERAL	HWY FORT LAUDERDALE, FL 33304	
494236000180	12/14/2017	Special Wa	rranty Deed		Disqualifie	ed Sa l e	\$22,500,0	000	114800871	1 1333 N FEDERAL HWY FORT LAUDERDALE, FL 3	
SPECIAL ASS	ESSMENTS									SCHOOL	
Fire		Garb	Light	Drain	Impr	Safe	Storm	Clean	Misc	Bayview Elementar	у : А
Ft Lauderda l e Fi	re-rescue (03)									Sunrise Middle: C	- h - A
Governmental ()	X)									Fort Lauderdale Hi	gn: A
23,127											
ELECTED OFFIC	CIALS										
Property Apprais	er	County	Comm. Dist	rict		County Cor	nm. Name		US Hous	e Rep. District	US House Rep. Name
Marty Kiar			4			Lamar P	. Fisher		23		Jared Moskowitz
Florida House Re	p.										
District		Florida Hou	ise Rep. Na	me	Fle	orida Senat	or District		Florida Sen	ator Name	School Board Member



Florida House Rep. Name Chip LaMarca Florida Senator District 37 Florida Senator Name Jason W. B. Pizzo School Board Member Sarah Leonardi

58- 82956

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WHEREAS, by Chapter 67-269, General Laws of 1967, it is required that on or by October 1, 1967, the <u>Florida Board of</u> <u>Parks and Historic Memorials</u> shall transfer and convey to the Trustees of the Internal Improvement Fund of the State of Florida by properly executed deed, title to all real property owned by such Board and the officers thereof, and all the right, title and interest in other properties which the Board and its officers manage and control, and

WHEREAS, the <u>Florida Board of Parks and Historic Memorials</u> owns, or claims to own, the real property hereinafter described and desires to convey the same to the Trustees of the Internal Improvement Fund of the State of Florida in compliance with the foregoing statutory provision, NOW THEREFORE,

THIS INDENTURE made this <u>J2</u> day of <u>September</u>, A. D. 1967, between the <u>Florida Board of Parks and Historic Memorials</u>, party of the first part, and the Trustees of the Internal Improvement Fund of the State of Florida for the use and benefit of the State of Florida, party of the second part;

<u>W I T N E S S E T H</u>

That the <u>Florida Board of Parks and Historic Memorials</u>, party of the first part, pursuant to the mandate of the Legislature of Florida, hereinbefore mentioned, and in further consideration of the mutual covenants between the parties hereto, does hereby and herewith convey, transfer, deliver and set over to the Trustees of the Internal Improvement Fund of the State of Florida, party of the second part, their successors and assigns forever, all that certain parcel or parcels of land, more particularly described as follows:

All those lands described in deed of conveyance from the Florida Board of Forestry to the Florida Board of Parks and Historic Memorials, dated September 16, 1949 and recorded in the public records of Broward County, Florida, in deed book 672 on page 71, comprising <u>Hugh Taylor Birch State Park</u>, subject, however, to all conditions, reservations and restrictions in the said deed contained.

Grantes Address TRUSTEES OF INTERNAL IMPROVEMENT FUND Elliot Building TALLAHASSEE, FLORIDA 82804

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Together with all tenements, hereditaments and appurtenances, with every privilege, right, title, interest and estate, reversion, remainder and easement thereto belonging or in anywise appertaining,

TO HAVE AND TO HOLD the same in fee simple forever.

IN WITNESS WHEREOF the party of the first part has caused these presents to be executed by its authorized officers and its seal to be hereunto affixed the day and year first above written.

FLORIDA BOARD OF PARKS AND STORIC HEMORIALS By: Chairma

(SEAL)

ATTEST

STATE OF FLORIDA COUNTY OF BREVARD

Sworn to and subscribed before me this day first above written.

Notary Public

MEMO: Legibility of writing, typing or printing unsatisfactory in this document when microfilmed.

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STATE OF FLORIDA COUNTY OF WASHINGTON

I hereby certify that on this 28^{4} day of deplemble, 1947, personally appeared before me, the undersigned authority, $E \cdot W \cdot C$ assumed k, to me known and by me known to be

Secretary of Florida Board of Parks and Historic Memorials, and under oath acknowledged his execution of the foregoing instrument as the act and deed of the said Board, and further acknowledged that the scal thereunto affixed is the authorized scal of said Board, affixed by due authority.

Sworn to and subscribed before me this day first above written.

Notary Public

Notary Public, State of Florida at Large My Commission Expires April 29, 1969 Beauty By American He & Casually Co.

RECORDED IN OFFICIAL RECORDS BOOK OF GROWARD COLUMY, FLOTENCY JACK WMEELER CLERK OF CIRCUIT COLRT