ABBREVIATIONS

&	AND	GB	GLASS BLOCK	REF	ROOF EXHAUST FAN
<	ANGLE	GRT	GRATING	REINF	REINFORCE (D, ING)
@	AT	GYP	GYPSUM	REQ'D	REQUIRED
AB	ANCHOR BOLT	GWB	GYPSUM WALL BOARD	REV	REVISED
ABV	ABOVE	HARD	HARDENER	RF	ROOF FAN
ACMU	ACOUSTICAL CONCRETE MASONRY UNIT	HD	HEAVY DUTY	RFG	ROOFING
AFF	ABOVE FINISHED FLOOR	HDWD	HARDWOOD	RGH	ROUGH
AFG	ABOVE FINISHED GRADE	HDWR	HARDWARE	RJ	REVEAL/RUSTICATION JOINT
AL, ALUM	ALUMINUM	HGR	HANGER	RL	RAIN LEADER
AMP	ACOUSTICAL METAL PANELS	HGT	HEIGHT	RLG	RAILING
ANOD	ANODIZE(D)	HM	HOLLOW METAL	RM	ROOM
ASSY	ASSEMBLY	HOR	HORIZONTAL	RO	ROUGH OPENING
BBT	BIOBASED TILE	HP	HIGH POINT	RT	RUBBER TILE
BD	BOARD	HR	HANDRAIL	RWL	RAIN WATER LEADER
BEV	BEVEL(ED)	IN	INCH	S	STEEL S-SHAPED DESIGNATION
BLDG	BUILDING	INST	INSTRUMENTATION	SAT	SUSPENDED ACOUSTICAL TILE
BLK	BLOCK	INSUL	ISULATION	SB	SEAMLESS BASE
BLKG	BLOCKING	JC	JANITOR'S CLOSET	SCHD	SCHEDULE
BRG	BEARING	JT	JOINT	SCRN	SCREEN(ED, ING)
BRK	BRICK	JT FLR	JOINT FILLER	SECT	SECTION
BRS	BRASS	L	LINE OF STRUCTURAL ANGLE DESIGNATION	SF	SEAMLESS FLOORING
BRZ	BRONZE	LAB	LABORATORY	SGFT	STRUCTURAL GLAZED FACING TILE
BTM	BOTTOM	LAD	LADDER	SHT	SHEET
C TO C	CENTER TO CENTER	LAM	LAMINIATED	SIM	SIMILAR
CAB	CABINET	LAV	LAVATORY	SK	SINK
CEM	CEMENT	LG	LAMINATED GLASS	SL	SLOPE
CF	COMPRESSIBLE FILLER	LINO	LINOLEUM	SLNT	SEALANT
CGFB	CEMENTITIOUS GLASS FIBER BOARD	LKR	LOCKER	SPEC	SPECIFICATION, SPECIFIED
CH	CONCRETE HARDENER	LNTL	LINTEL	SST	STAINLESS STEEL
CHAM	CHAMFER	LP	LOW POINT	STD	STANDARD
CHAN	CHANNEL	LT	LIGHT(S)	STL	STEEL
CIP	CAST IN PLACE	MAS	MASONRY	STOR	STORAGE
CJ	CONTROL JOINT	MATL	MATERIAL	STRU	STRUCTURE(S, URAL)
CL OR	CENTERLINE	MAX	MAXIMUM	STWY	STAIRWAY
CLG	CEILING	MEMB	MEMBRANE	SUPT	SUPERINTENDENT
CLKG	CAULKING	MFR	MANUFACTURER	SUSP	SUSPENDED
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM	T	TREAD(S)
COL	COLUMN	MISC	MISCELLANEOUS	TBM	TRAFFIC BEARING MEMBRANE
COMP	COMPRESSIBLE	MO	MASONRY OPENING	T&G	TONGUE AND GROOVE
CONC	CONCRETE	MR	MOISTURE RESISTANT	TEMP	TEMPERATURE
CONT	CONTINUOUS	MRAT	MOISTURE RESISTANT ACOUSTICAL TILE	TEMP	TEMPERED
CRPT	CARPET, CARPET TILE	MTD	MOUNTED	TEMP	TEMPORARY
CRS	COURSE(S)	MTG	MOUNTING	TER	TERRAZZO
CT	CERAMIC TILE	MTL	METAL	TERB	TERRAZZO BASE
CET	DETAIL	NIC	NOT IN CONTRACT	THK	THICK(NESS)
DF	DRINKING FOUNTAIN	NOM	MONINAL	THR	THRESHOLD
DIA	DIAMETER	NTS	NOT TO SCALE	TKBD	TACKBOARD
DIAG	DIAGONAL	OC	ON CENTER	TOB	TOP OF BRICK
DIM	DIMENSION	OH	OVERHANG	TOC	TOP OF CONCRETE
DISP	DISPENSER	OPNG	OPENING	TOIL	TOILET
DN	DOWN	OPP HD	OPPOSITE HAND	TOM	TOP OF MASONRY
DP	DAMPPROOFING	ORD	OVERFLOW ROOF DRAIN	TOPG	TOPPING
DR	DRAIN	OSB	ORIENTED STRAND BOARD	TOS	TOP OF STEEL
ELEC	ELECTRICAL	OV	OVER	TS	STRUCTURAL TUBING (STEEL UNLESS NOTED)
ELEV	ELEVATION	OVHD	OVERHEAD	TSL	TOP OF SLAB
EQ	EQUAL(LY)	PERIM	PERIMETER	TWF	THROUGH WALL FLASHING
EQPT	EQUIPMENT	PL	PLATE	TYP	TYPICAL
EWC	ELECTRICAL WATER COOLER	PL	PROPERTY LINE	UC	UNDERCUT
EXP	EXPOSED	PLAS	PLASTER	UON	UNLESS OTHERWISE NOTED
EJ	EXPANSION JOINT	PLK	PLANK	UR	URINAL
EXIST, (E)	EXISTING	PLYWD	PLYWOOD	VB	VAPOR BARRIER
FD	FLOOR DRAIN	PM	PRESSED METAL	VCT	VINYL COMPOSITE TILE
FE	FIRE EXTINGUISHER	PR	PAIR	VERT	VERTICAL
FF	FACTORY FINISH	PRD	PROMENADE ROOF DRAIN	VEST	VESTIBULE
FGL	FIBERGLASS	PRCST	PRECAST	VTR	VENT THRU ROOF
FIN	FINISH(ED)	PREFAB	PRE-FABRICATED	W	WITH
FLG	FLASHING	PT	PREASSURE TREATED	W/	WITH
FL	FLOOR(ING)	PRMLD	PREMOLDED	W/A	WHERE APPLICABLE
FLR	FILLER	PSF	POUNDS PER SQUARE FOOT	W/O	WITHOUT
FR	FRAME	PTD	PAINTED	WC	WATER CLOSET
FRP	FIBERGLASS REINFORCED PLASTIC	QT	QUARRY TILE	WD	WOOD
FO	FRAME OPENING	QTB	QUARRY TILE BASE	WDW	WINDOW
FV	FIELD VERIFY	R	RISER(S)	WF	WIDE FLANGE
FXD	FIXED	R+S	BACKER ROD & SEALANT	WPG	WATERPROOFING
GA	GAGE, GAUGE	RB	RUBBER BASE	WT	STEEL TEE-SHAPE DESIGNATION
GALV	GALVANIZED	RD	ROOF DRAIN	WWF	WELDED WIRE FABRIC
GL	GLASS	RECT	RECEPTACLE		

GENERAL NOTES

HEIGHT OF INTERIOR STUD AND CMU PARTITIONS ARE FROM FLOOR TO THE UNDERSIDE OF ROOF DECK UNLESS OTHERWISE NOTED. PROVIDE DEFLECTION HEADS AT TOP OF WALL (TYPICAL).

NOT ALL EQUIPMENT IS SHOWN FOR CLARITY. REFER TO THE APPROPRIATE DISCIPLINE SHEETS FOR SPECIFIC EQUIPMENT LAYOUT AND OTHER REQUIREMENTS

SEE CIVIL SHEETS FOR SIDEWALK, ROAD PAVING AND FINISH GRADE ELEVATIONS.

SEE STRUCTURAL SHEETS FOR SIZE AND LOCATION OF CONCRETE PADS, TRENCHES, VAULTS, SUMPS, ETC

SEE STRUCTURAL SHEETS FOR CONCRETE AND MASONRY REINFORCEMENT

ALL INTERIOR CMU WALLS SHALL BE PROVIDED WITH INSULATION INSERTS (SEE SPEC 042000)

PATCH AND REPAIR ANY MATERIALS OR SURFACES DAMAGED DURING THE CONSTRUCTION PROCESS TO MATCH THE EXISTING ADJACENT SURFACES.

ALL ITEMS TO BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.

ALL JOINTS, VOIDS AND PENETRATIONS THROUGH FIRE-RATED WALL SYSTEMS ARE TO BE FILLED/SEALED WITH UL APPROVED FIRESAFING/FIRESTOPPING MATERIALS TO ACHIEVE THE REQUIRED FIRE-RATING (REFER TO CODE DRAWINGS FOR LOCATIONS).

DO NOT SCALE FROM THE DRAWINGS

NOTIFY ARCHITECT IF CONSTRUCTION DOCUMENTS DIFFER FROM ACTUAL FIELD CONDITIONS PRIOR TO FABRICATION OR NEW CONSTRUCTION

THIS DRAWING CONTAINS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS. NOT ALL ITEMS SHOWN HERE APPEAR ON THE CONTRACT DRAWINGS.

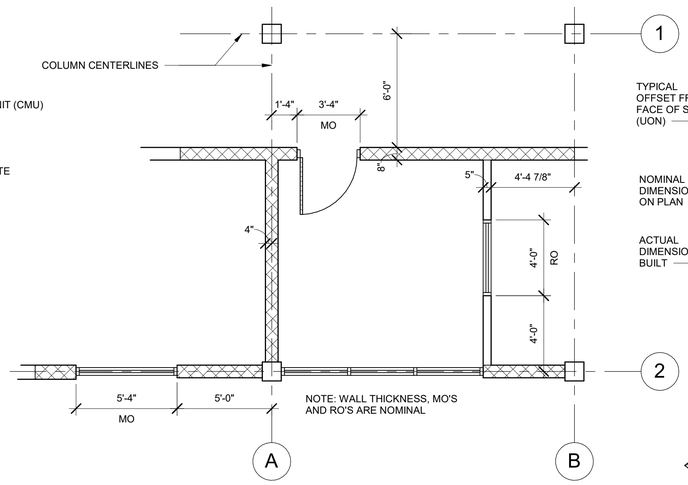
LINE TYPES (UNLESS OTHERWISE NOTED)

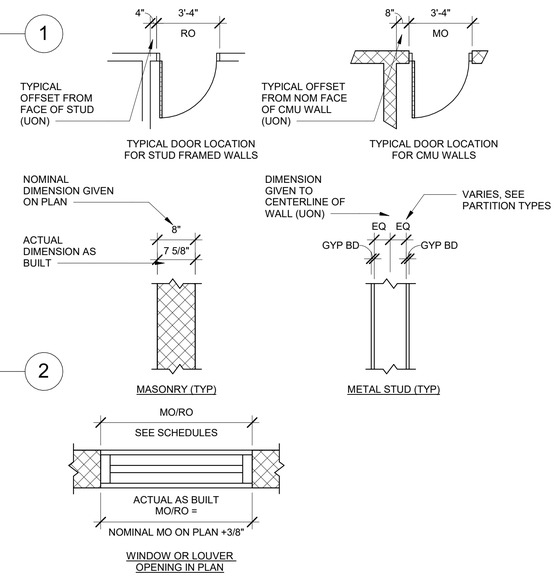
- CONTINUOUS - NEW CONSTRUCTION
- DASHED ON CONSTRUCTION PLAN/SHEETS - HIDDEN ELEMENTS BEYOND, ABOVE OR BELOW

MATERIAL SYMBOLS

- EARTH
- GRAVEL
- BRICK
- CONCRETE MASONRY UNIT (CMU)
- PRECAST CONCRETE
- CAST-IN-PLACE CONCRETE
- WOOD BLOCKING
- WOOD FINISH
- PLYWOOD
- RIGID INSULATION
- BLANKET INSULATION
- STEEL
- ALUMINUM
- STUCCO / GROUT
- CAULK

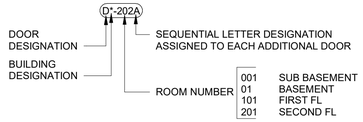
DIMENSIONING SYSTEM

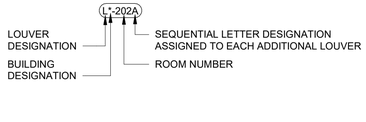


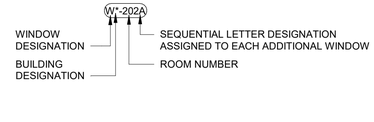


OPENINGS

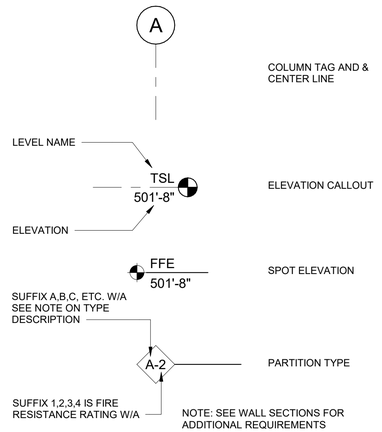
USUALLY LABELED IN PLAN VIEW; HOWEVER, OPENINGS NOT SHOWN IN PLAN ARE LABELED ON ELEVATIONS

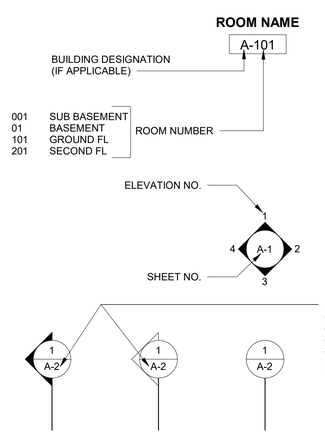


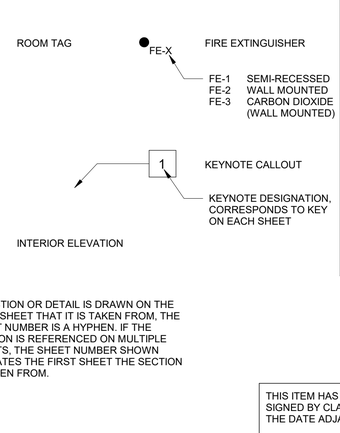




SYMBOLS







FOR BUILDING DEPARTMENT USE

FOR DEVELOPMENT SERVICES USE

THIS ITEM HAS BEEN DIGITALLY SIGNED BY CLARICE E. SOLLOG ON THE DATE ADJACENT TO THE SEAL.

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STATE OF FLORIDA · CLARICE ELIZABETH SOLLOG · AR 96709 · REGISTERED ARCHITECT

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

ARCHITECTURAL ABBREVATIONS, SYMBOLS, LEGENDS & NOTES

PROJECT NO. 159676-291242
FILE NAME: AWZ000GN.RVT

SHEET NO.
A-GN-1

ISSUED FOR PERMITTING

CHEMICAL CANOPY CODE KEY DETERMINATIONS

CODE REVIEWED - 2023 FBC, 8TH EDITION WITH AMENDMENTS
FLORIDA FIRE PREVENTION CODE (FFPC), 8TH EDITION WITH APPLICABLE AMMENDMENTS, NFPA 1 (2021) AND NFPA 101 (2021)
NFPA 400 HAZARDOUS MATERIALS CODE (2019)

CHEMICAL CANOPY - WEATHER PROTECTION

BUILDING CLASSIFICATION
FBC SECTION 414 — EXTERIOR BULK CHEMICAL STORAGE
FFPC SECTION 60.4.4.2 — OUTDOOR STORAGE AND USE, EXCEEDING MAXIMUM ALLOWABLE QUANITITY (SINGLE CONTROL AREA)

CONSTRUCTION TYPE — TYPE IIB, NON-COMBUSTIBLE CONSTRUCTION

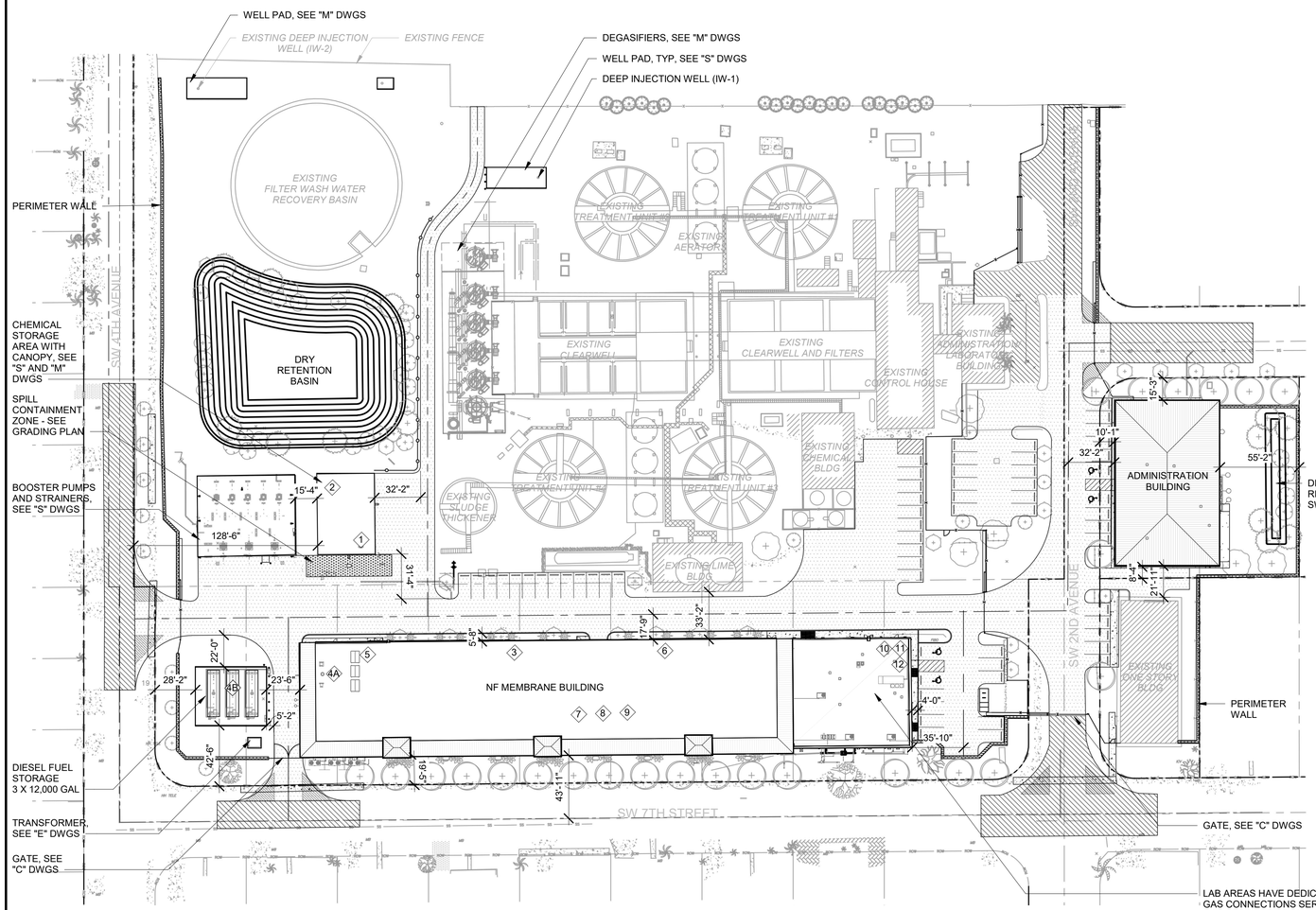
CANOPY AREA
FBC SECTION 414.6.1 — ALLOWABLE 1500 SF — ACTUAL 2236 SF*

*ACTUAL SQUARE FOOTAGE IS ALLOWABLE BASED ON FRONTAGE INCREASE CALCULATION IN ACCORDANCE WITH FBC SECTION 506.3.

CHEMICALS STORED — SODIUM HYDROXIDE - IN COMPLIANCE WITH NFPA 400 SECTION 12.4
SULFURIC ACID - IN COMPLIANCE WITH NFPA 400 SECTION 12.4, 15.4, 18.4 AND 20.4

FIRE SEPARATION DISTANCE — REFER TO SITE PLAN; ALL NFPA 400 REQUIREMENTS FOR INDIVIDUAL CHEMICAL TYPES REQUIRE A MIN OF 20 FOOT SEPARATION FROM PROPERTY LINES, PUBLIC WAY, MEANS OF EGRESS TO PUBLIC WAY OR BUILDINGS NOT EXCLUSIVELY USED FOR CHEMICAL STORAGE, USE OR APPLICATION.

SEPARATION BETWEEN SODIUM HYDROXIDE AND SULFURIC ACID UNDER CANOPY IS PROVIDED BY AN UNPIERCED 2-HOUR FIRE RESISTENCE WALL MEETING ALL REQUIREMENTS OF NFPA 400 SECTION 18.4.1.3



SITE KEY PLAN
1" = 50'-0"

LAB AREAS HAVE DEDICATED GAS CONNECTIONS SERVED BY GAS STORAGE ROOM. NO OTHER BULK CHEMICALS ARE STORED IN LABS IN EXCESS OF ALLOWABLE QUANTITIES. REFER TO SHEET A-GN3 AND A-NF-1 FOR CODE KEY DETERMINATIONS AND LIFE SAFETY PLAN FOR LABS.

N

GENERAL NOTES:

1. SEE SHEET A-1 FOR ADDITIONAL GENERAL NOTES
2. THIS SITE PLAN INDENTIFIES STRUCTURES AND BUILDINGS IN THE ARCHITECTURAL SCOPE AND DEFINES BUILDING AND FIRE PROTECTION CODE RELATED SEPERATION OF DISTANCES
3. REFER TO CIVIL, LANDSCAPE AND MECHANICAL DRAWINGS FOR ADDITIONAL STRUCTURES AND PROCESS FACILITIES
4. SEE CIVIL DWGS FOR ADDITIONAL SITE INFORMATION
5. SEE S-CSN-1, S-CSN-3 AND M-CSN-1 FOR CHEMICAL CANOPY DESIGN INCLUDING SECONDARY CONTAINMENT, CHEMICAL SEPARATION AND CANOPY CONSTRUCTION.

FOR BUILDING DEPARTMENT USE

CHEMICAL SUMMARY

	DESCRIPTION	USE GROUP WHEN MAX ALLOWABLE QTY. EXCEEDED	STATE (S, L, G)	CONCENTRATION (%)	TOTAL - MAX (GAL U.O.N)	STORAGE/USE?	MAX EXEMPT AMOUNT 307.1(1) AND 307.1(2)	NFPA RATING: HEALTH	NFPA RATING: FLAMMABILITY	NFPA RATING: REACTIVITY	NFPA RATING: SPECIAL	PHYSICAL HAZARDS: COMBUSTIBLE	PHYSICAL HAZARDS: CRYOGENIC	PHYSICAL HAZARDS: EXPLOSIVE	PHYSICAL HAZARDS: FLAMMABLE	PHYSICAL HAZARDS: OXIDIZER	PHYSICAL HAZARDS: UNSTABLE REACTIVE	PHYSICAL HAZARDS: WATER REACTIVE	HEALTH HAZARDS: CORROSIVE	HEALTH HAZARDS: IRRITANT	HEALTH HAZARDS: TOXIC/HIGHLY TOXIC
1	SULFURIC ACID	H-4	L	93	10,545	EXT - STORAGE	N/A	3	0	0	OX/ W2	--	--	--	--	C-1	--	C-2	COR	IR	TOX
	CAS: 7664-93-9																				
2	SODIUM HYDROXIDE	H-4	L	25	49,000	EXT - STORAGE	N/A	3	0	0	--	--	--	--	--	--	--	C-1	COR	IR	--
	CAS: 1310-73-2																				
3	ANTISCALANT	--	L	--	1,100	INT - STORAGE	N/A	0	0	0	--	--	--	--	--	--	--	--	--	IR	--
	CAS: N/A																				
4A	DIESEL FUEL	--	L	MIX	550?	INT - STORAGE	660	2	2	0	--	C-2	--	--	--	--	--	--	--	--	--
	CAS: 00169-00-0																				
4B	DIESEL	--	L	MIX	36,000	EXT - STORAGE	48,000	2	2	0	--	C-2	--	--	--	--	--	--	--	--	--
	CAS: 00169-00-00																				
5	DIESEL EXHAUST FUEL (UREA)	--	L	--	2,000	INT - STORAGE	--	1	0	0	--	--	--	--	--	--	--	--	--	IR	--
	CAS: 57-16-6*																				
6	CITRIC ACID	--	L	50	330	INT - STORAGE	N/A	2	0	0	--	--	--	--	--	--	--	--	--	IR	--
	CAS: 77-92-9																				
7	SODIUM HYDROXIDE	H-4	L	50	110	INT - STORAGE	500	3	0	0	--	--	--	--	--	--	--	C-1	COR	IR	--
	CAS: 1310-73-2																				
8	SULFURIC ACID	H-4	L	93	22.3 LBS	USE - CLOSED	500 LBS	3	0	0	OX/ W2	--	--	--	--	C-1	--	C-2	COR	IR	TOX
	CAS: 7664-93-9																				
9	ANTISCALANT	--	L	--	1.5 LBS	USE - CLOSED	660	0	0	0	--	C-2	--	--	--	--	--	--	--	IR	--
	CAS: N/A																				
10	ACETYLENE	--	G	100	36,000	STORAGE/ USE	48,000	0	4	2	--	--	--	--	C-1A	--	C-2	--	--	--	--
	CAS: 74-86-2																				
11	ARGON	--	G	100	2,000	STORAGE/ USE	--	0	0	0	--	--	--	--	--	--	--	--	--	--	--
	CAS: 7440-37-1																				
12	HELIUM	--	G	100	2,000	STORAGE/ USE	--	0	0	0	--	--	--	--	--	--	--	--	--	-	--
	CAS: 7440-59-7																				

*NOTE: VENDOR SUPPLIED SDS SHEET DOES NOT INDICATE A CAS NUMBER FOR SPECIFIED COMPOSITION, CAS NUMBER AND CHARACTERISTICS LISTED ARE THOSE OF LARGEST % BY WEIGHT CHEMICAL.

SITE PLAN LEGEND

- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- PROPERTY LINE
- LOT LINE
- CENTER OF ACCESS TO PUBLIC WAY

FOR DEVELOPMENT SERVICES USE

0 25' 50' 100'
SCALE: 1" = 50'-0"

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STATE OF FLORIDA — CLARICE E. LIZABETH SOLLOG — AR 96709 — REGISTERED ARCHITECT

CLARICE E. SOLLOG, AIA
NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

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APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

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Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

ARCHITECTURAL SITE PLAN

PROJECT NO. 159676-291242
FILE NAME: AWZ000GN.RVT

SHEET NO.
A-GN-2

ISSUED FOR PERMITTING

Building Code Key Determinations				
Owner:	City of Delray Beach	**Date:**	July 2025	
Project Name:	Delray Beach Membrane Treatment Plant	**Location:**	Delray Beach, Florida	
Project No:	159676-291242	**Architect of Record:**	Clarice E. Sollog, AIA	
Building Name:	NF Membrane Building			

Applicable Ordinances, Codes, and Standards	
Abbreviations	**ICC** - International Code Council; **IBC** - International Building Code; **IPC** - International Plumbing Code; **IMC** - International Mechanical Code; **IECC** - International Energy Conservation Code; **IFC** - International Fire Code; **NEC** - National Electrical Code; **FBC** - Florida Building Code
Building Code	2023 FBC, 8th Edition, with applicable Amendments
Plumbing Code	2023 FBC Plumbing, 8th Edition, with applicable Amendments
Mechanical Code	2023 FBC Mechanical, 8th Edition, with applicable Amendments
Electrical Code	2023 FBC Chapter 27; NFPA 70-2020 NEC, with applicable Amendments
Energy Code	2023 FBC Energy Conservation, 8th Edition
Fire / Life Safety Code	Florida Fire Prevention Code (FFPC), 8th Edition, with applicable Amendments, NFPA 1 (2021) and NFPA 101 (2021)
Accessibility Code	2023 FBC Accessibility, 8th Edition

Use and Occupancy Classification

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)	
					Provided
	Mixed Use (Y/N)		Yes	Yes	
	Occupancy	Section 306.1 Section 304.1	F-1, Moderate Hazard Factory Industrial B, Business	Section 6.1.12 Section 6.1.11 Industrial, Special Purpose (40.1.2.1.2) Business (38.1.2)	F-1 - Process Area B - Operations and Lab Areas

General Building Heights and Areas

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)	
	Special Industrial Occupancies	Section 503.1.1	N/A	--	
	Buildings on Same Lot	Section 503.1.2	N/A	--	Refer to Sheet A-GN-2 for site layout
			Allowable no. of stories/Allowable height	Allowable no. of stories/Allowable height	Provided
	Use Group **F-1: Type IIB (S)**	Table 504.3 Table 504.4	S:3 stories/75 feet	--	S:1 story/ 34'-2" Calculated Height S: 1 story/ 28'-2"
	Use Group **B : Type IIB (S)**		S:4 stories/75 feet	--	
	Mezzanines and Equipment Platforms	Section 505	N/A	NFPA 101 Section 8.6.10 N/A	
			Allowable Square Footage	Allowable Square Footage	Provided
	Use Group **F-1: Type IIB (S1)**	Table 506.2	62,000 SF		S1: 25,617 SF
	Use Group **B : Type IIB (S1)**		92,000 SF		S1: 6,660 SF
					Total Footprint: 32,277 SF
	Unlimited Area Buildings	Section 507	N/A		
	Mixed Use and Occupancy	Section 508.4	Non-Separated Mixed Use, F-1 and B	NFPA 101 Section 6.1.14.3.1 Mixed Occupancy	No separation required
	Incidental Use	Section 509	N/A	N/A	N/A
	Special Provision	Section 510	N/A	N/A	N/A

Types of Construction

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)	
	Construction Classification	Section 602	Type IIB	8.2.1.2 Type IIB	
	Fire-Resistance Rating Requirements (hours) for Building Elements				
	Building Element	Table 601	Req'd Rating for Construction Type	8.2.1.2 Req'd Rating for Construction Type	Provided
	Primary Structural Frame		0 hours	0 hours	0 hours
	Bearing Walls (Exterior)		0 hours	0 hours	0 hours
	Bearing Walls (Interior)		0 hours	0 hours	0 hours*
	Non Bearing Walls and Partitions (Exterior)		0 hours	0 hours	0 hours
	Non Bearing Walls and Partitions (Interior)		0 hours	0 hours	0 hours*
	Floor Construction including supporting structure		0 hours	0 hours	0 hours
	Roof Construction including supporting structure		0 hours	0 hours	0 hours
	Corridors	Table 1020.2	0 hours with Sprinkler	NFPA 101 Section 7.1.3.1 Not Required	0 hours

2-Hr Fire-rated walls provided at dedicated Electrical Rooms. Per NFPA 1, paragraph 13.3.2.29 sprinklers are provided in accordance with NFPA 13. NFPA 13, paragraph 9.2.6 allows sprinklers to be omitted from electrical equipment rooms where all four listed conditions are met. Proposed design of Main Electrical Room A-130 satisfies all necessary conditions.

Fire and Smoke Protection Features

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)	
	Minimum Distance of Projection				
	Exterior Walls	Table 705.2	5 feet or greater FSD - 40 inches from line that determines FSD		Separation exceeds 40 inches from FSD, refer to A-GN-2
	Fire-Resistance Rating Requirements (hours) for Exterior Walls based on Fire Separation Distance (feet)				
	Fire Separation Distance in feet	Table 705.5	Req'd Rating for Occupancy	Req'd Rating for Construction Type	Provided
	10 ≤ X < 30		0 hours	--	0 hours
	X ≥ 30		0 hours	--	0 hours
	Maximum percentage Area of Exterior Wall Openings based on Fire Separation Distance in feet				
	Unprotected openings in walls of sprinklered buildings with fire separation distance 10 ≤ X < 30 and X ≥ 30	Table 705.8	10 - 15 feet: 45% 15 - 20 feet: 75% 20 - 30 feet or greater: No Limit	--	In compliance
	Fire Barriers	Section 707.3	Fire Barrier separating incidental use	NFPA 101 Section 8.3, Table 8.3.3.2.2 --	2 hour Fire Barrier separating incidental use of dedicated Electrical Rooms per NFPA 13, 9.2.6
	Penetrations	Section 714	Not less than required wall resistance rating	NFPA 101 Section 8.3.4 Not less than required wall resistance rating	In compliance with required ratings
	Fire-Resistant Joint System	Section 715	Not less than required wall resistance rating	NFPA 101 Section 8.3.5 Not less than required wall resistance rating	

Interior Finishes

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)	
	Interior Wall and Ceiling Finish Requirements by Occupancy				
	Interior exit stairways and ramps and exit passageways (Sprinklered)	Table 803.11	Group F-1: Class C required Group B: Class B required	NFPA 1, 12.5.4, 20.13.3, 20.14.3 NFPA 101 10.2, 38.3.3, 40.3.3 Class A or B	In compliance
	Corridors and enclosure for exit access stairways and ramps (Sprinklered)		Group F-1 & B: Class C required	Class A or B	In compliance
	Rooms and enclosed spaces (Sprinklered)		Group F-1 & B: Class C required	Class A, B or C	In compliance

Fire Protection Systems

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)	
	Automatic Sprinkler Systems	Section 903.2	Group F-1 - Required Group B - Not Required	NFPA 1 13.3.2 NFPA 101 Section 9.7 Industrial - Required Business - Not Required	Provided - F-1 Fire area exceeds 12,000 SF, Provided - B occupancy

2-Hr Fire-rated walls provided at dedicated Electrical Rooms. Per NFPA 1, paragraph 13.3.2.29 sprinklers are provided in accordance with NFPA 13. NFPA 13, paragraph 9.2.6 allows sprinklers to be omitted from electrical equipment rooms where all four listed conditions are met. Proposed design of Main Electrical Room A-130 satisfies all necessary conditions.

	Portable Fire Extinguishers	Section 906.1	(F-1) and (B) - Required	NFPA 1 Table 13.6.1.2 Required for Industrial and Business Occupancies	30 provided
	Size and distribution	Section 906.3	(F-1) Process, Light Hazard, Class A	NFPA 1, 13.6.3.2, 13.6.3.4, NFPA 101, 9.9 (F-1) Process Floor, Light Hazard, Class A	7
			(F-1) Main Electrical Room and Generator Room, Light Hazard Light Hazard, Class C	(F-1)Main Electrical Room and Generator Room, Light Hazard, Class C	5
			(B) Operations Area: Ordinary Hazard, Class A	(B) Operations Area, Ordinary Hazard, Class A	16
			(B) Electrical Room, Light Hazard, Class C	(B) Electrical Room, Light Hazard, Class C	1
			(B) Server Room, Light Hazard, Class C	(B) Server Room, Light Hazard, Class C	1
	Fire Alarm and Detection Systems	Section 903.4 and 907	Required with automatic sprinkler system	NFPA 1, 13.7, NFPA 101 9.6 Required with automatic sprinkler system	In compliance

Means of Egress

	FBC, 8TH EDITION (2023)			FFPC, 8TH EDITION (NFPA 1, NFPA 101)		
						Provided
	Occupant Load					
	Maximum Floor Area Allowances per Occupant	Table 1004.5	Business Areas = 150 SF gross per occupant Ground Level (B) - 6,526 SF / 150 SF = 43.5 Industrial areas = 100 SF gross per occupant Ground Level (F-1) - 25,655 SF / 100 SF = 256.5	NFPA 101 Table 7.3.1.2	Business Areas = 150 SF per person (B) - 6,660 SF / 150 SF = 44.4 Industrial area - 100 SF or MP Ground Level (F-1) - 25,617 SF / 100 SF = 256.5	 44 occupants 257 occupants
						Total Calculated Occupant Load: 301
	Means of Egress Sizing	Section 1005				
	Stairway width	Section 1005.3.1	0.3 inches x occupant load = 0.3 x 302 = 90.6 in.			N/A
	Other egress components = Doors width	Section 1005.3.2	0.2 inches x occupant load = 0.2 x 302 = 60.4 in.			374 inches total
	Number of Exits	Section 1006.2	F-1(S): 2 exits with occupant load > 49, max common path of travel 100 ft B(S): 1 exit with max occupant load of 49, max common path of travel 100 ft	NFPA 101 7.4, 38.2.4.1, 40.2.4.1.1	Not less than 2 means of egress	F-1: 5 exits, B: 3 exits (8 total)
	Means of Egress Illumination	Section 1008		NFPA 101 7.8		In compliance
	Accessible Means of Egress	Section 1009	See Accessibilty section below	NFPA 101 7.5.4	--	Accessible areas in compliance
	Doors, Gates and Turnstiles					
	Size of Doors	Section 1010.1.1	Minimum Width = 32 inches	NFPA 101 7.2.1	Minimum Width = 32 inches	34 inches
	Door Swing	Section 1010.1.2	Pivoted or side-hinged swinging type		--	In compliance
	Stairways	Section 1011		NFPA 101 7.2.2		N/A
	Ramps	Section 1012	Slope not to exceed 1:12			N/A
	Exit Signs	Section 1013	Required throughout	NFPA 101 7.10	Required throughout	In compliance
	Handrails	Section 1014		NFPA 101 7.2.2.4.1		N/A
	Guards	Section 1015	Required at all locations 30" or more above grade		Required at all locations 30" or more above grade	In compliance (roof edge protection)
	Exit Access	Section 1016				In compliance
	Exit Access Travel Distance	Table 1017.2	Group F-1 (S), 250 feet maximum Group B (S), 300 feet maximum	NFPA 101 7.6, 38.2.6, Table 40.2.6.1	Business - 300 feet maximum w/ sprinklers Industrial, Special Purpose - 400 feet w/ sprinklers	152 feet, maximum, refer to Life Safety Plan
	Minimum Corridor Width	Table 1020.3	Any Facilities - 44 inches minimum	NFPA 101 38.2.3.2 Table 40.2.5.3.1	Business - 44 inches minimum serving an occupant load of 50 or more Equipment Access Walways - 22 inches minimum	In compliance
	Exterior Exit Ramps and Stairways	Section 1027				N/A
	Exit Discharge	Section 1028	Required to be directly to exterior and at grade	NFPA 101 7.7	Required to be directly to exterior and at grade	In compliance

Accessibility

	FBC Accessibility, 8TH EDITION (2023)				
	Designed in accordance with FBC Accessibility	Chapter 2	Factory Industrial Occupancy	Section 203.5 - Spaces frequented only by service personnel for maintenance, repair or occasional monitoring of equipment are not required to comply.	Process Area, Generator Room and Main Electrical Room, are not required to comply.
			Business Occupancy	No exemptions.	In compliance

Interior Environment

	FBC, 8TH EDITION (2023)		
	Ventilation	Section 1203	Paragraph 1203.1 General
	Temperature Control	Section 1204	Paragraph 1204.1 Equipment and systems
	Lighting	Section 1205	Paragraph 1205.3 Artificial light
	Interior Space Dimensions	Section 1208	Paragraph 1208.2 Minimum Ceiling Heights
	Access to Unoccupied Spaces	Section 1209	Paragraph 1209.3 Mechanical Appliances

Plumbing Systems

		FBC, 8TH EDITION (2023)			
				Required	Total Provided
	Minimum Plumbing Facilities	Table 2902.1	**Factory and Industrial Occupancy - 257 occupants**	**Male**	**Female**
			Water Closets (Urinals)	1 per 100; 1.29	1 per 100; 1.29	2 male, 2 female and 1 unisex provided
			Lavatories	1 per 100; 1.29	1 per 100; 1.29	2 male, 2 female and 1 unisex provided
			Bathtub/Showers	N/A		1 shower - Womens 2 showers- Mens
			Drinking Fountains	1 per 400; 0.64		2 total
			Other - Service Sink	1 service sink		1 total
			B Occupancy - 45 occupants	**Male**	**Female**	
			Water Closets (Urinals)	1 per 25 for the first 50 & 1 per 50 for the remainder exceeding 50; 1.8	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50; 1.8	2 male, 2 female and 1 unisex provided
			Lavatories	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80; 1.125	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80; 1.125	2 male, 2 female and 1 unisex provided
			Bathtub/Showers	N/A		1 shower - Womens 2 showers- Mens
			Drinking Fountains	1 per 100; 0.45		2 total
			Other - Service Sink	1 service sink		1 total

NF MEMBRANE BUILDING APPROVED PRODUCTS LIST

PRODUCT NAME	MANUFACTURER	MODEL	FL PRODUCT APPROVAL	APPROVAL NUMBER	DESIGN PRESSURE	IMPACT RATED
DOUBLE WIDTH ALUMINUM DOOR AND FRAME	CLINE	SERIES 100BE (D)	YES	6336.8	+80/-80	YES
SINGLE WIDTH ALUMINUM DOOR AND FRAME	CLINE	SERIES 100BE (S)	YES	6336.6	+90/-90	YES
INSULATED OVERHEAD ROLL-UP DOOR	COOKSON	INSULATED ESD20	YES	17421.2	+120/-120	YES
WIND DRIVEN RAIN LOUVERS	GREENHECK	EVH-660D	YES	16785.1	+160/-140	YES
SBS MODIFIED BITUMEN ROOF SYSTEM	JOHNS MANVILLE	SBS-ADHESIVE APPLIED	YES	2948.1	+NA/-247.5	N/A
THERMALLY BROKEN ALUMINUM STOREFRONT/WINDOW SYSTEM	YKK	YHS 50 TU	YES	14218.11	+70/-70	YES
THERMALLY BROKEN ALUMINUM FIXED WINDOW SYSTEM	YKK	YFW 400 TUH	YES	13269.1	+90/-120	YES
THERMALLY BROKEN ALUMINUM CASEMENT WINDOW SYSTEM	YKK	YOW 350 TUH	YES	16312.8	+65/-65	YES
STANDING SEAM METAL ROOF	PAC-CLAD	TITE-LOC PLUS (.032")	YES	24423.12	+N/A/-204.25	N/A

NOTE: APPROVED PRODUCTS LIST IS A LISTING OF THE DESIGN BASIS PRODUCTS AND THE APPLICABLE APPROVED FLORIDA STATE PRODUCT DATA/TESTING. CONTRACTOR CAN SUBMIT "OR EQUAL" PRODUCTS BUT IS RESPONSIBLE FOR PRODUCT APPROVAL AND COORDINATION OF THAT INFORMATION WITH BUILDING DEPARTMENT.

FOR BUILDING DEPARTMENT USE

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES
2. SEE SHEET A-NF-1 FOR LIFE SAFETY PLAN

FOR DEVELOPMENT SERVICES USE

THIS ITEM HAS BEEN DIGITALLY SIGNED BY CLARICE E. SOLLOG ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRIC COPIES.

STATE OF FLORIDA · CLARICE ELIZABETH SOLLOG · AR 96709 · REGISTERED ARCHITECT

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MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: G. HOBDY
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. NAMBIAR
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

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CITY OF DELRAY BEACH

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
BUILDING CODE KEY DETERMINATIONS

PROJECT NO. 159676-291242
FILE NAME: AWZ000NF.RVT

SHEET NO.
A-GN-3

ISSUED FOR PERMITTING

Building Code Key Determinations					
Owner:	City of Delray Beach		**Date:**	July 2025	
Project Name:	Delray Beach Membrane Water Treatment Plant		**Location:**	Delray Beach, Florida	
Project No:	159676-291242		**Architect of Record:**	Clarice E. Sollog, AIA	
Building Name:	Administration Building				

Applicable Ordinances, Codes, and Standards	
Abbreviations	**ICC** - International Code Council; **IBC** - International Building Code; **IPC** - International Plumbing Code; **IMC** - International Mechanical Code; **IECC** - International Energy Conservation Code; **IFC** - International Fire Code; **NEC** - National Electrical Code; **FBC** - Florida Building Code
Building Code	2023 FBC, 8th Edition, with applicable Amendments
Plumbing Code	2023 FBC Plumbing, 8th Edition, with applicable Amendments
Mechanical Code	2023 FBC Mechanical, 8th Edition, with applicable Amendments
Electrical Code	2023 FBC Chapter 27; NFPA 70-2020 NEC, with applicable Amendments
Energy Code	2023 FBC Energy Conservation, 8th Edition
Fire / Life Safety Code	Florida Fire Prevention Code (FFPC), 8th Edition, with applicable Amendments, NFPA 1 (2021) and NFPA 101 (2021)
Accessibility Code	2023 FBC Accessibility, 8th Edition

Use and Occupancy Classification

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)	
					Provided
	Mixed Use (Y/N)		NO		
	Occupancy	Section 304.1	B, Business	NFPA 101 Section 6.1.11	Business	B - Administration Building

General Building Heights and Areas

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)		
	Special Industrial Occupancies	Section 503.1.1	N/A			
	Buildings on Same Lot	Section 503.1.2				Refer to Sheet A-GN-2 for site layout
		Table 504.3 Table 504.4	Allowable no. of stories/Allowable height		Allowable no. of stories/Allowable height	Provided
	Use Group **B : Type IIB (NS)**		3 stories/55 feet			NS: 1 story/ 19'-10" Calculated Height NS: 1 story/ 16'-1"
	Mezzanines and Equipment Platforms	Section 505	N/A	NFPA 101 Section 8.6.10	N/A	
		Table 506.2	Allowable Square Footage		Allowable Square Footage	Provided
	Use Group **B : Type IIB (NS)**		23,000 SF			NS: 7,117 SF
						Total Footprint: 7,118 SF
	Unlimited Area Buildings	Section 507	N/A			
	Mixed Use and Occupancy	Section 508.4	N/A	NFPA 101 Section 6.1.14.3.1	N/A	N/A
	Incidental Use	Section 509	N/A		N/A	N/A
	Special Provision	Section 510	N/A		N/A	N/A

Types of Construction

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)		
	Construction Classification	Section 602	Type IIB	8.2.1.2	Type IIB	
	Fire-Resistance Rating Requirements (hours) for Building Elements					
	Building Element	Table 601	Req'd Rating for Construction Type	Table A.8.2.1.2	Req'd Rating for Construction Type	Provided
	Primary Structural Frame		0 hours		0 hours	0 hours
	Bearing Walls (Exterior)		0 hours		0 hours	0 hours
	Bearing Walls (Interior)		0 hours		0 hours	0 hours
	Non Bearing Walls and Partitions (Exterior)		0 hours		0 hours	0 hours
	Non Bearing Walls and Partitions (Interior)		0 hours		0 hours	0 hours
	Floor Construction including supporting structure		0 hours		0 hours	0 hours
	Roof Construction including supporting structure		0 hours		0 hours	0 hours
	Corridors	Section 1020.2	1 hour (NS)	NFPA 101 Section 7.1.3.1	1 hour	1 hour

Fire and Smoke Protection Features

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)		
	Minimum Distance of Projection					
	Exterior Walls	Table 705.2	5 feet or greater FSD - min 40 inches from line that determines FSD			Separation far exceeds 40 inches from FSD, refer to A-GN-2
	Fire-Resistance Rating Requirements (hours) for Exterior Walls based on Fire Separation Distance (feet)					
	Fire Separation Distance in feet	Table 705.5	Req'd Rating for Occupancy		Req'd Rating for Construction Type	Provided
	10 ≤ X < 30		0 hours		--	0 hours
	X ≥ 30		0 hours		--	0 hours
	Maximum percentage Area of Exterior Wall Openings based on Fire Separation Distance in feet					
	Unprotected openings in walls of nonsprinklered buildings with fire separation distance 10 ≤ X < 30 and X ≥ 30	Table 705.8	20 - 25 feet: 45% 30 or greater: No Limit			In compliance
	Fire Partitions	Section 708	not less than 1 hour	NFPA 101 Section 8.3.2, Table 8.3.3.2.2	1 hour, 45 min rated door and sidelite	In compliance with required ratings
	Penetrations	Section 714	Not less than required wall resistance rating	NFPA 101 Section 8.3.4	Not less than 1 hour or required wall resistance rating	In compliance with required ratings
	Fire-Resistant Joint System	Section 715	Not less than required wall resistance rating	NFPA 101 Section 8.3.5	Not less than 1 hour or required wall resistance rating	

Interior Finishes

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)		
	Interior Wall and Ceiling Finish Requirements by Occupancy					
	Interior exit stairways and ramps and exit passageways (Not Sprinklered)	Table 803.11	Group B: Class A required	NFPA 1, 12.5.4 NFPA 101 10.2, 38.3.3	Class A or B	In compliance
	Corridors and enclosure for exit access stairways and ramps (Not Sprinklered)		Group B: Class B required		Class A or B	In compliance
	Rooms and enclosed spaces (Not Sprinklered)		Group B: Class C required		Class A, B or C	In compliance

Fire Protection Systems

		FBC, 8TH EDITION (2023)		FFPC, 8TH EDITION (NFPA 1, NFPA 101)		
	Automatic Sprinkler Systems	Section 903.2	Not required per occupancy classification	NFPA 1 13.3.2, NFPA 101 Section 9.7	Not Required	Not Required
	Portable Fire Extinguishers	Section 906.1	(B) - Required	NFPA 1 Table 13.6.1.2	Required	11 provided
	Size and distribution	Section 906.3	(B) Administration Area: Ordinary Hazard, Class A	NFPA 1, 13.6.3.2, 13.6.3.4, NFPA 101, 9.9	(B) Administration Area: Ordinary Hazard, Class A	9
			(B) Electrical Room: Light Hazard, Class C		(B) Electrical Room: Light Hazard, Class C	1
	Fire Alarm and Detection Systems	Section 907	Not required per occupancy classification	NFPA 1, 13.7, NFPA 101 9.6	Not Required	Not Required

Means of Egress

	FBC, 8TH EDITION (2023)			FFPC, 8TH EDITION (NFPA 1, NFPA 101)		
						Provided
	Occupant Load					
	Maximum Floor Area Allowances per Occupant	Table 1004.5	Business Areas = 150 SF gross per occupant Assembly, Unconcentrated = 15 net Ground Level (B) - 6,384 SF / 150 SF = 42.6 Training Room (B) - 733 SF* / 15 SF = 48.9 * Below threshold of section 303.1.2 and classified as B occupancy	NFPA 101 Table 7.3.1.2	Business Areas = 150 SF per person Collaboration Rooms > 450 SF = 15 SF per person (B) = 6,385 SF / 150 SF = 42.6 Training Room = 733 SF / 15 SF =48.9 Total Calculated Occupant Load: 92	43 Occupants 49 Occupants
	Means of Egress Sizing	Section 1005				
	Stairway width	Paragraph 1005.3.1	0.3 inches x occupant load = 0.3 x 87 = 26.1 in.	NFPA 101 Table 7.3.3.1	0.3 inches x occupant load = 0.3 x 87 = 26.1 in.	N/A
	Other egress components = Doors width	Paragraph 1005.3.2	0.2 inches x occupant load = 0.2 x 87 = 17.4 in.	NFPA 101 Table 7.3.3.1	0.2 inches x occupant load = 0.2 x 87 = 17.4 in.	111 inches clear
	Number of Exits	Section 1006.2	2 exits with occupant load of >30, common path of travel exceeds 75 FT	NFPA 101 7.4, 38.2.4.1, 38.2.5.2.2	Not less than 2 means of egress, common path of travel not to exceed 75 FT	2 exits provided
	Means of Egress Illumination	Section 1008		NFPA 101 7.8		In compliance
	Accessible Means of Egress	Section 1009	See Chapter 11 below	NFPA 101 7.5.4	--	
	Doors, Gates and Turnstiles					
	Size of Doors	Section 1010.1.1	Minimum Width = 32 inches	NFPA 101 7.2.1	Minimum Width = 32 inches	34 inches
	Door Swing	Section 1010.1.2	Pivoted or side-hinged swinging type		--	In compliance
	Stairways	Section 1011		NFPA 101 7.2.2		N/A
	Ramps	Section 1012	slope not to exceed 1:12			N/A
	Exit Signs	Section 1013	Required throughout	NFPA 101 7.10	Required throughout	In compliance
	Handrails	Section 1014		NFPA 101 7.2.2.4.1		N/A
	Guards	Section 1015	Required at all locations 30" or more above grade		Required at all locations 30" or more above grade	N/A
	Exit Access	Section 1016				In compliance
	Exit Access Travel Distance	Table 1017.2	Group B, 200 feet maximum	NFPA 101 7.6, 38.2.6	200 feet max travel distance to exit	136 feet maximum, refer to Life Safety Plan
	Minimum Corridor Width	Table 1020.3	Any Facilities - 44 inches minimum	NFPA 101 38.2.3.2	44 inches minimum, serving an occupant load of 50 or more	72 inches provided
	Exterior Exit Ramps and Stairways	Section 1027				N/A
	Exit Discharge	Section 1028	Required to be directly to exterior and at grade	NFPA 101 7.7	Required to be directly to exterior and at grade	In compliance

Accessibility

	FBC Accessibility, 8TH EDITION (2023)			
Designed in accordance with FBC Accessibility	Chapter 2	Business Occupancy	No exemptions.	In compliance

Interior Environment

	FBC, 8TH EDITION (2023)		
Ventilation	Section 1203	Paragraph 1203.1 General	In compliance, see "H" drawings
Temperature Control	Section 1204	Paragraph 1204.1 Equipment and systems	In compliance, see "H" drawings
Lighting	Section 1205	Paragraph 1205.3 Artificial light	In compliance, see "E" drawings
Interior Space Dimensions	Section 1208	Paragraph 1208.2 Minimum Ceiling Heights	In compliance, see "H" drawings
Access to Unoccupied Spaces	Section 1209	Paragraph 1209.3 Mechanical Appliances	N/A

Plumbing Systems

	FBC, 8TH EDITION (2023)				
				Required	Provided
	Minimum Plumbing Facilities	Table 2902.1	**B Occupancy - 87 occupants**	**Male**	**Female**	
			Water Closets (Urinals)	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	2 each
			Lavatories	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	3 each
			Bathtub/Showers	N/A		N/A
			Drinking Fountains	1 per 100; 1		2 total
			Other - Service Sink	1 service sink		1 total

ADMINISTRATION BUILDING APPROVED PRODUCT LIST

PRODUCT NAME	MANUFACTURER	MODEL	FL PRODUCT APPROVAL	APPROVAL NUMBER	DESIGN PRESSURE	IMPACT RATED
DOUBLE WIDTH ALUMINUM STOREFRONT DOOR	YKK	35H MEDIUM STILE	YES	16554.1	+90/-90	YES
SINGLE WIDTH ALUMINUM STOREFRONT DOOR	YKK	35D MEDIUM STILE	YES	12892.3	+55/-55	N/A
STANDING SEAM METAL ROOFING	PAC-CLAD	TITE-LOC PLUS (.032")	YES	24423.12	+N/A/-204.25	N/A
THERMALLY BROKEN ALUMINUM FIXED WINDOW SYSTEM	YKK	YFW 400 TUH	YES	13269.1	+90/-120	YES
WIND DRIVEN RAIN LOUVERS	RUSKIN COMPANY	EME3625MD	YES	21829.9	+120/-120	YES

NOTE: APPROVED PRODUCTS LIST IS A LISTING OF THE DESIGN BASIS PRODUCTS AND THE APPLICABLE APPROVED FLORIDA STATE PRODUCT DATA/TESTING. CONTRACTOR CAN SUBMIT "OR EQUAL" PRODUCTS BUT IS RESPONSIBLE FOR PRODUCT APPROVAL AND COORDINATION OF THAT INFORMATION WITH BUILDINGDEPARTMENT.

FOR BUILDING DEPARTMENT USE

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES
2. SEE SHEET A-AB-1 FOR LIFE SAFETY PLAN

FOR DEVELOPMENT SERVICES USE

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STATE OF FLORIDA · CLARICE ELIZABETH SOLLOG · AR 96709 · REGISTERED ARCHITECT

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101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

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Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

ADMINISTRATION BUILDING
BUILDING CODE KEY DETERMINATIONS

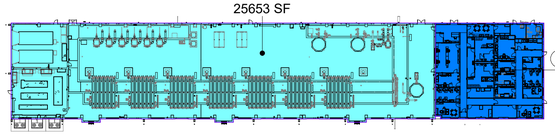
PROJECT NO. 159676-291242
FILE NAME: AWZ000OB.RVT

SHEET NO.
A-GN-4

ISSUED FOR PERMITTING

1 INDUSTRIAL/SPECIAL PURPOSE INDUSTRIAL
25653 SF

2 BUSINESS
6528 SF



OCCUPANT LOAD KEY PLAN
1" = 60'-0"

CALCULATED OCCUPANT LOAD						
NUMBER	SPACES	AREA	SF PER OCCUPANT (FBC)	OCCUPANT LOAD (FBC)*	SF PER OCCUPANT (FFPC)	OCCUPANT LOAD (FFPC)*
1	INDUSTRIAL/SPECIAL PURPOSE INDUSTRIAL	25653 SF	100	257	100	257
2	BUSINESS	6526 SF	150	44	150	44
*MORE STINGNENT REQUIREMENTS TO BE USED FOR EGRESS			TOTAL OCCUPANTS (FBC)	301	TOTAL OCCUPANTS (FFPC)	301

OCCUPANT LOAD FACTOR PER TABLE 1004.5

INDUSTRIAL/ SPECIAL PURPOSE INDUSTRIAL

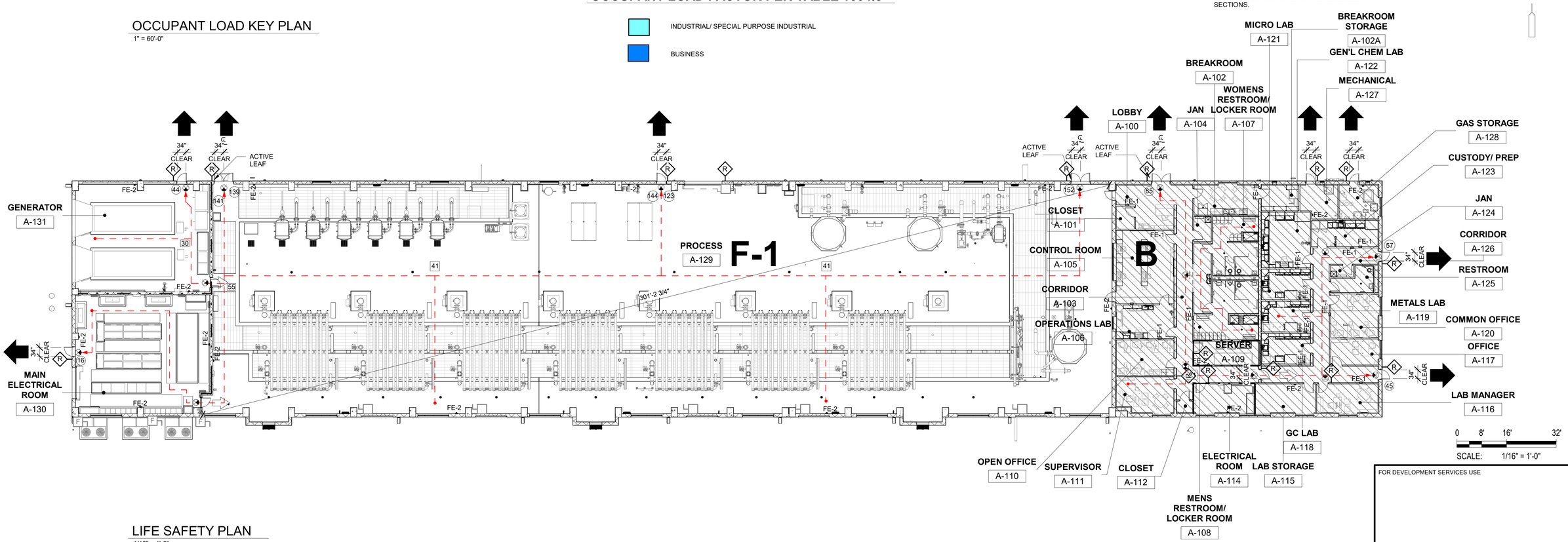
BUSINESS

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS AND SYMBOLS
2. SEE SHEET A-GN-3 FOR BUILDING CODE KEY DETERMINATIONS
3. 3. SEE SHEET A-GN-2 FOR ARCHITECTURAL SITE PLAN AND BUILDING SITING INFORMATION INCLUDING SEPERATION FROM ADJACENT STRUCTURES, ETC.
4. SEE SHEET A-NF-20 REFLECTED CELING PLAN AND "E" DRAWINGS FOR FULL EXTENTS OF EMERGENCY LIGHTING IN SPACES.
5. LAB AREAS HAVE DEDICATED GAS CONNECTIONS SERVED BY GAS STORAGE ROOM. NO OTHER BULK CHEMICALS ARE STORED IN LABS IN EXCESS OF ALLOWABLE QUANTITIES AND ALL LAB DESIGN IS IN COMPLIANCE WITH THE FLORIDA FIRE PREVENTION CODE AND REFERENCED NFPA SECTIONS.

FOR BUILDING DEPARTMENT USE

N



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

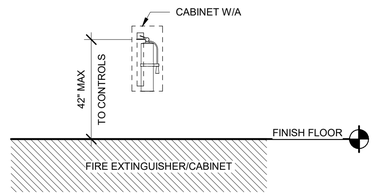
LIFE SAFETY PLAN
1/16" = 1'-0"

FOR DEVELOPMENT SERVICES USE

LIFE SAFETY LEGEND

- 2 HOUR FIRE RATING
- EXIT DISCHARGE
- AREA OR SPACE EXIT
- EXIT SIGN
- FE FIRE EXTINGUISHER
- FE FIRE EXTINGUISHER W/ CABINET
- EGRESS PATH
- (X) TRAVEL DISTANCE (FEET)
- [X] COMMON PATH OF TRAVEL (FEET)
- B: BUSINESS
- F-1: MODERATE HAZARD FACTORY INDUSTRIAL
- (R) CARD READER, SEE "E" DWGS

FIRE EXTINGUSHIER MOUNTING HEIGHT



NF BUILDING FIRE EXTINGUISHER SCHEDULE				
TAG	QTY	MODEL	MANUFACTURER	DESCRIPTION
FE-1	13	ACADEMY 1027 (COSMIC 10E)	JL INDUSTRIES (ACTIVAR INC)	NON-RATED WALL, 3" ROLLED, ADA COMPLIANT CABINET W/ 10LB DRY CHEMICAL
FE-2	17	COSMIC 10E UL RATED 4A-80BC	JL INDUSTRIES (ACTIVAR INC)	10 LB DRY CHEMICAL, BRACKET MOUNTED

STATE OF FLORIDA · CLARICE E. SOLLOG · AR 96709 · REGISTERED ARCHITECT

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CLARICE E. SOLLOG, AIA
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FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

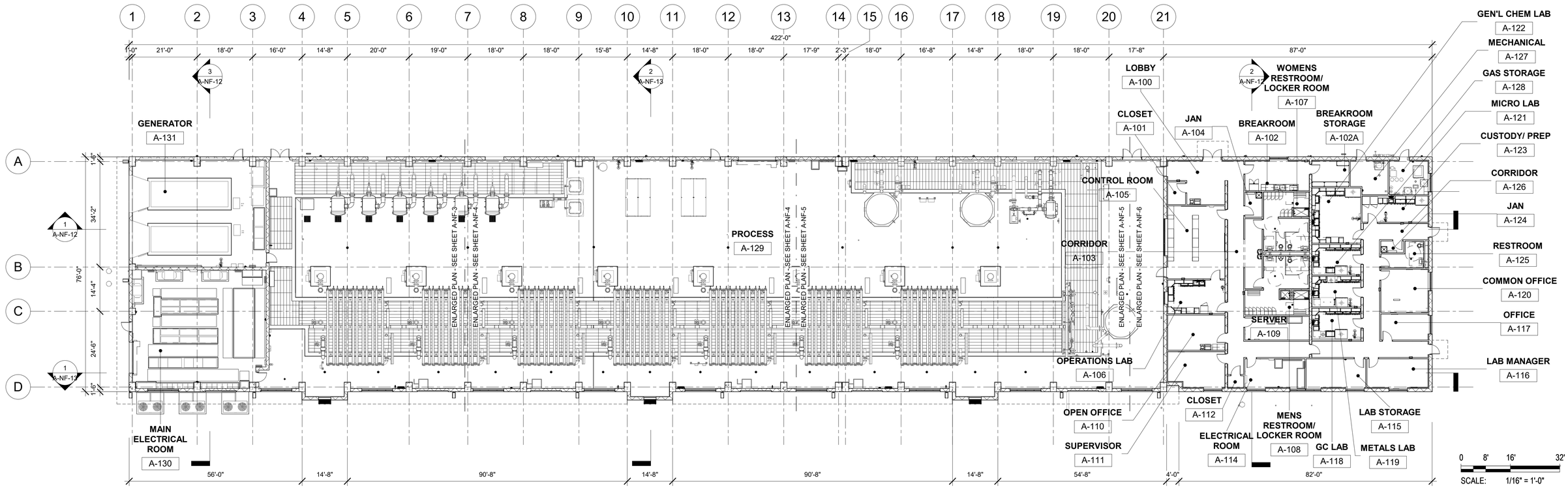
DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
LIFE SAFETY PLAN

PROJECT NO. 159676-291242
FILE NAME: AWZ000NF.RVT

SHEET NO.
A-NF-1

ISSUED FOR PERMITTING



OVERALL FLOOR PLAN

1/16" = 1'-0"

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS AND SYMBOLS
2. SEE SHEET A-GN-3 FOR BUILDING CODE KEY DETERMINATIONS
3. SEE SHEET A-NF-1 FOR LIFE SAFETY PLAN
4. SEE "E" DRAWINGS FOR FULL EXTENTS OF EMERGENCY LIGHTING IN SPACES.

FOR BUILDING DEPARTMENT USE

FOR DEVELOPMENT SERVICES USE

REV. NO.	DATE	DRWN	CHKD	REMARKS

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DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
OVERALL FLOOR PLAN

PROJECT NO. 159676-291242
FILE NAME: AWZ000MB4.RVT

SHEET NO.
A-NF-2

STATE OF FLORIDA
CLARICE ELIZABETH SOLLOG
REGISTERED ARCHITECT
AR 96709

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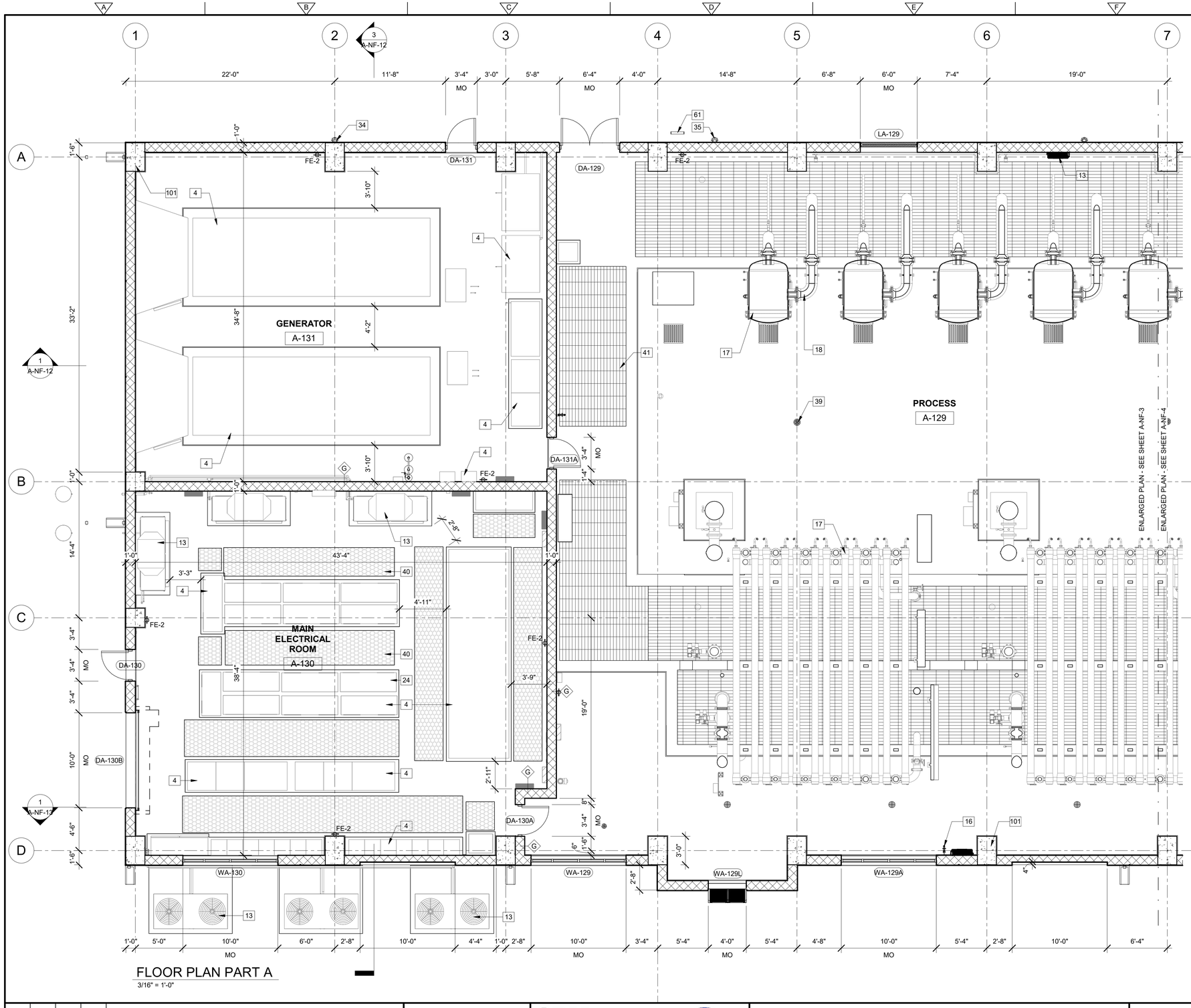
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

ISSUED FOR PERMITTING



FLOOR PLAN PART A

3/16" = 1'-0"

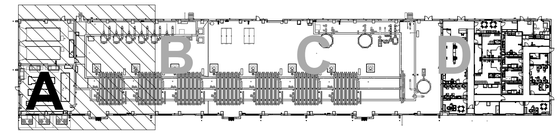
0 2' 4' 6' 10'

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

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS AND SYMBOLS
2. SEE SHEET A-GN-3 FOR BUILDING CODE KEY DETERMINATIONS
3. SEE SHEET A-NF-1 FOR LIFE SAFETY PLAN
4. SEE "E" DRAWINGS FOR FULL EXTENTS OF EMERGENCY LIGHTING IN SPACES.

FOR BUILDING DEPARTMENT USE



KEY PLAN

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
13	HVAC EQUIPMENT, SEE "H" DWGS
16	PLUMBING EQUIPMENT, SEE "P" DWGS
17	PROCESS MECHANICAL EQUIPMENT, SEE "M" DWGS
18	PROCESS PIPING, SEE "M" DWGS
24	EQUIPMENT PAD, SEE "S" DWGS
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
35	ALUMINUM DOWNSPOUT PIPE BOOT, SEE "P" DWGS
39	FLOOR DRAIN, TYP. SEE "P" DWGS"
40	FLOOR MATS, TYP
41	REMOVABLE ALUMINUM FLOOR GRATING, SEE "S" DWGS
61	ROOF ACCESS LADDER, TYP
101	CONCRETE COLUMN, SEE "S" DWGS

FOR DEVELOPMENT SERVICES USE

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STATE OF FLORIDA · CLARICE ELIZABETH SOLLOG · AR 96709 · REGISTERED ARCHITECT

CLARICE E. SOLLOG, AIA
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FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A.SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

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Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

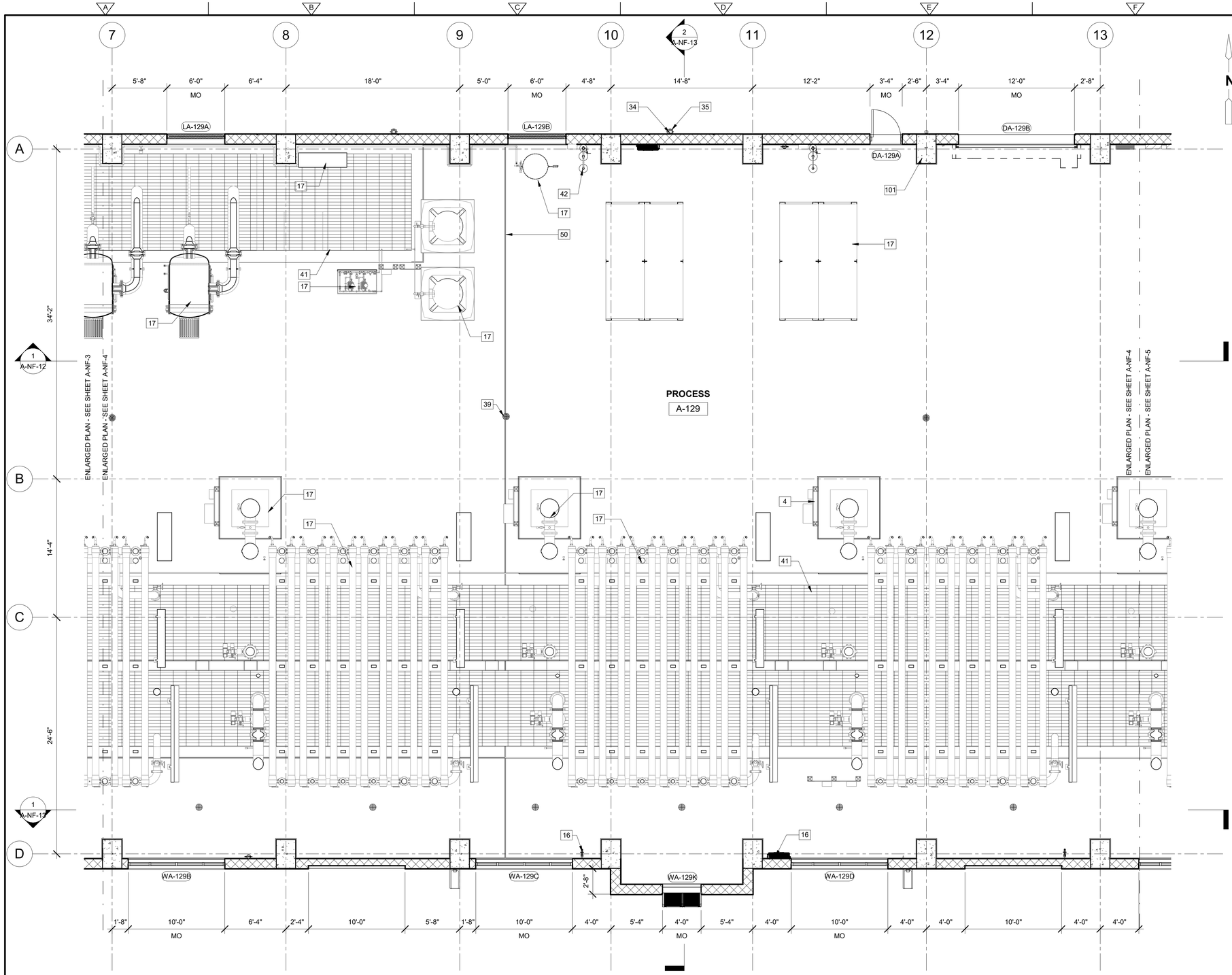
DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
FLOOR PLAN PART A

PROJECT NO. 159676-291242
FILE NAME: AWZ000MB4.RVT

SHEET NO.
A-NF-3

ISSUED FOR PERMITTING



FLOOR PLAN B

3/16" = 1'-0"

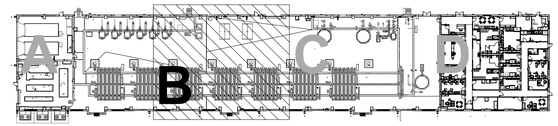
0 2' 4' 6' 10'

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

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS AND SYMBOLS
2. SEE SHEET A-GN-3 FOR BUILDING CODE KEY DETERMINATIONS
3. SEE SHEET A-NF-1 FOR LIFE SAFETY PLAN
4. SEE "E" DRAWINGS FOR FULL EXTENTS OF EMERGENCY LIGHTING IN SPACES.

FOR BUILDING DEPARTMENT USE



KEY PLAN

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
16	PLUMBING EQUIPMENT, SEE "P" DWGS
17	PROCESS MECHANICAL EQUIPMENT, SEE "M" DWGS
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
35	ALUMINUM DOWNSPOUT PIPE BOOT, SEE "P" DWGS
39	FLOOR DRAIN, TYP. SEE "P" DWGS"
41	REMOVABLE ALUMINUM FLOOR GRATING, SEE "S" DWGS
42	EMERGENCY SHOWER AND EYEWASH, SEE "P" DWGS
50	EXPANSION JOINT, SEE "S" DWGS
101	CONCRETE COLUMN, SEE "S" DWGS

FOR DEVELOPMENT SERVICES USE

STATE OF FLORIDA
CLARICE ELIZABETH SOLLOG
AR 96709
REGISTERED ARCHITECT

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101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

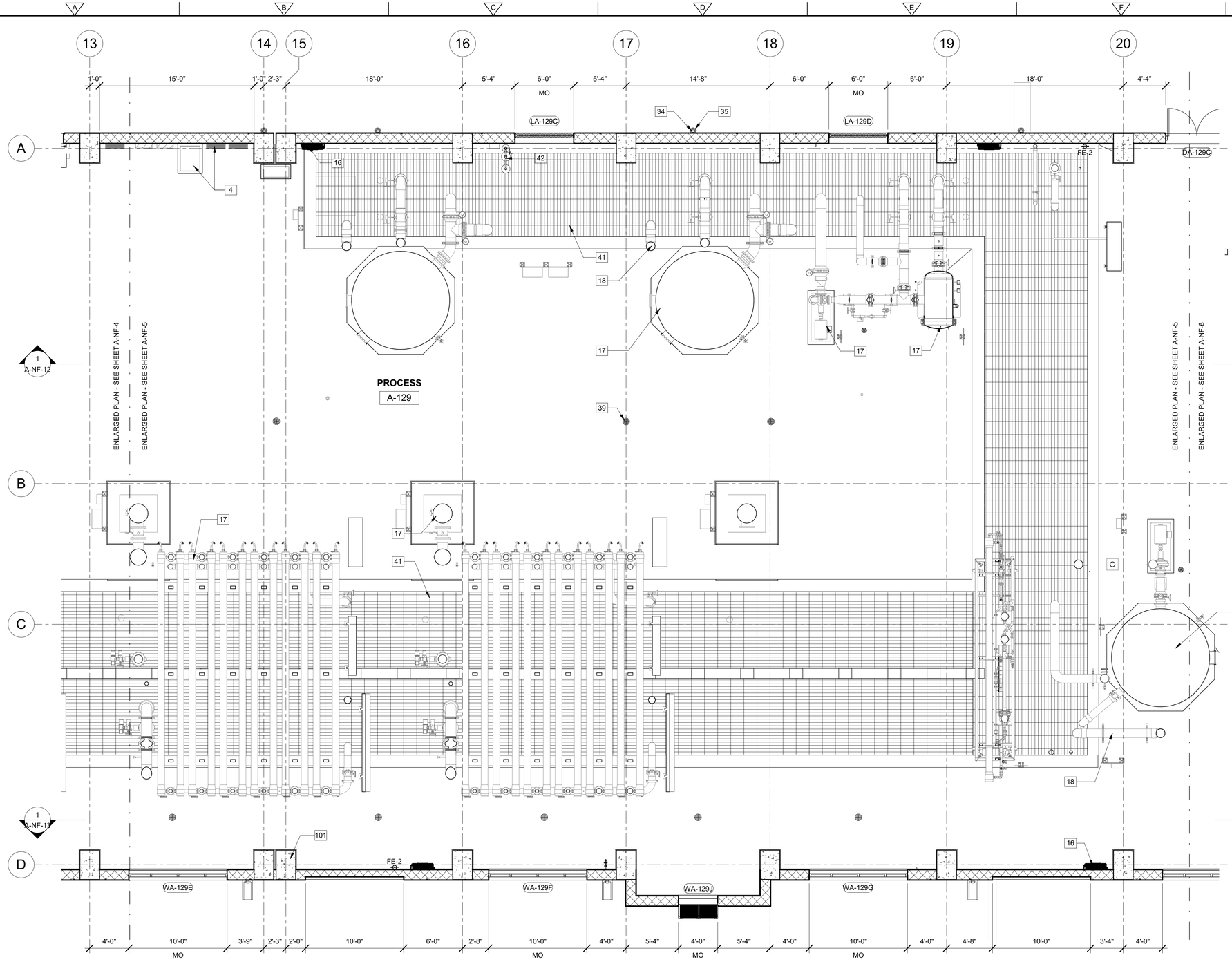
DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
FLOOR PLAN PART B

PROJECT NO. 159676-291242
FILE NAME: AW2000MB4.RVT

SHEET NO.
A-NF-4

ISSUED FOR PERMITTING



FLOOR PLAN C

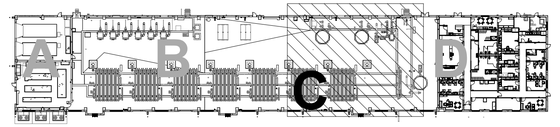
3/16" = 1'-0"

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS AND SYMBOLS
2. SEE SHEET A-GN-3 FOR BUILDING CODE KEY DETERMINATIONS
3. SEE SHEET A-NF-1 FOR LIFE SAFETY PLAN
4. SEE "E" DRAWINGS FOR FULL EXTENTS OF EMERGENCY LIGHTING IN SPACES.

N

FOR BUILDING DEPARTMENT USE



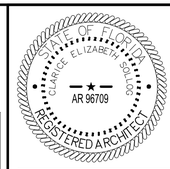
KEY PLAN

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
16	PLUMBING EQUIPMENT, SEE "P" DWGS
17	PROCESS MECHANICAL EQUIPMENT, SEE "M" DWGS
18	PROCESS PIPING, SEE "M" DWGS
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
35	ALUMINUM DOWNSPOUT PIPE BOOT, SEE "P" DWGS
39	FLOOR DRAIN, TYP. SEE "P" DWGS"
41	REMOVABLE ALUMINUM FLOOR GRATING, SEE "S" DWGS
42	EMERGENCY SHOWER AND EYEWASH, SEE "P" DWGS
101	CONCRETE COLUMN, SEE "S" DWGS

0 2' 4' 6' 10'

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

FOR DEVELOPMENT SERVICES USE



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MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

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DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

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Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

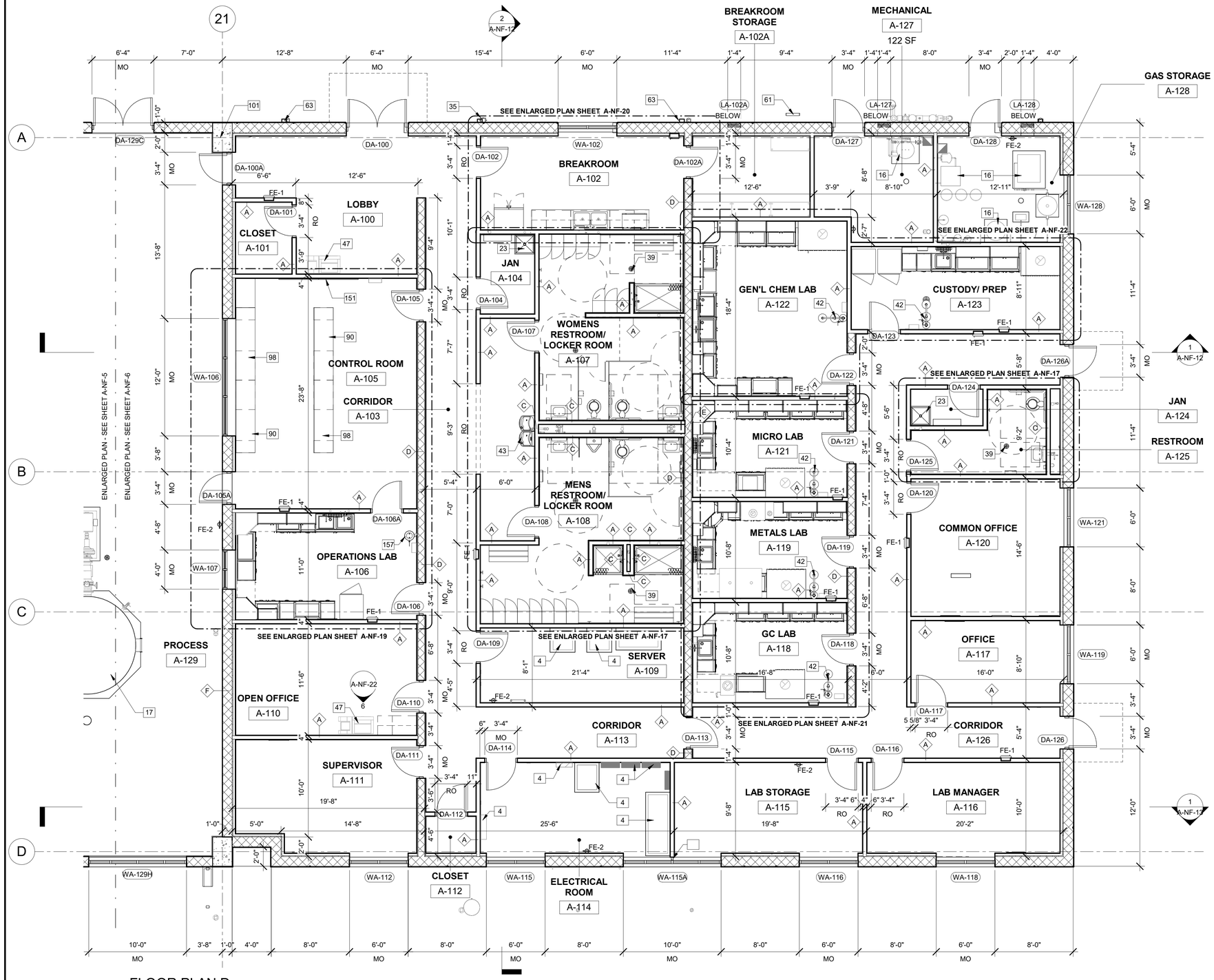
DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
FLOOR PLAN PART C

PROJECT NO. 159676-291242
FILE NAME: AWZ000MB4.RVT

SHEET NO.
A-NF-5

ISSUED FOR PERMITTING



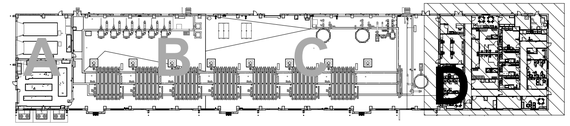
FLOOR PLAN D

3/16" = 1'-0"

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS AND SYMBOLS
2. SEE SHEET A-GN-3 FOR BUILDING CODE KEY DETERMINATIONS
3. SEE SHEET A-NF-1 FOR LIFE SAFETY PLAN
4. SEE "E" DRAWINGS FOR FULL EXTENTS OF EMERGENCY LIGHTING IN SPACES.

FOR BUILDING DEPARTMENT USE



KEY PLAN

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
16	PLUMBING EQUIPMENT, SEE "P" DWGS
17	PROCESS MECHANICAL EQUIPMENT, SEE "M" DWGS
23	MOP SINK, SEE "P" DWGS
35	ALUMINUM DOWNSPOUT PIPE BOOT, SEE "P" DWGS
39	FLOOR DRAIN, TYP. SEE "P" DWGS"
42	EMERGENCY SHOWER AND EYEWASH, SEE "P" DWGS
43	HI-LOW DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE "P" DWGS
47	COPIER MACHINE (NIC)
61	ROOF ACCESS LADDER, TYP
63	ALUMINUM CONDUCTOR HEAD, DOWNSPOUT AND SCUPPER, TYP
90	SOLID SURFACE COUNTERTOP AND BACKSPLASH
98	PLASTIC LAMINATE CASEWORK
101	CONCRETE COLUMN, SEE "S" DWGS
151	50" WALL MOUNTED TELEVISION, TYP (PROVIDE BACKING FOR MOUNTING)
157	EMERGENCY EYEWASH STATION, SEE "P" DWGS

0 2' 4' 6' 10'

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

FOR DEVELOPMENT SERVICES USE

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STATE OF FLORIDA · CLARICE ELIZABETH SOLLOG · AR 96709 · REGISTERED ARCHITECT

CLARICE E. SOLLOG, AIA
NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

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CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

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Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
FLOOR PLAN PART D

PROJECT NO. 159676-291242
FILE NAME: AWZ000NF.RVT

SHEET NO.
A-NF-6

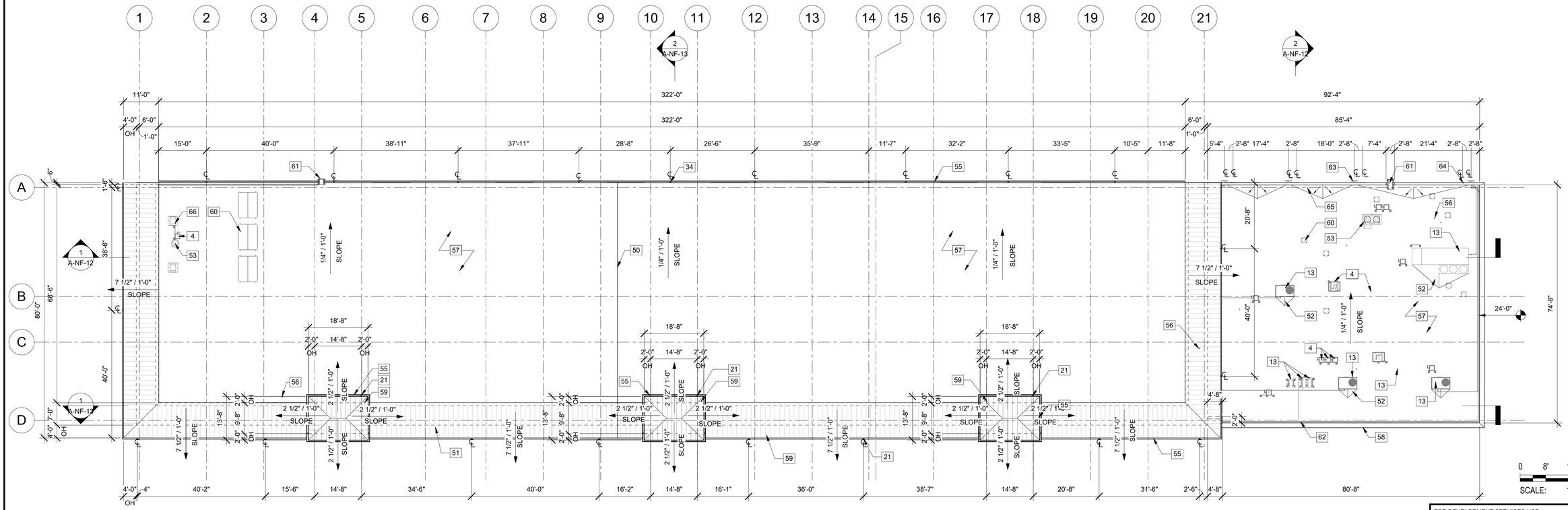
ISSUED FOR PERMITTING

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS AND SYMBOLS

FOR BUILDING DEPARTMENT USE

N



ROOF PLAN

1/16" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
13	HVAC EQUIPMENT, SEE "H" DWGS
21	ALUMINUM DOWNSPOUT, TYP
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
50	EXPANSION JOINT, SEE "S" DWGS
51	BUILDING OUTLINE BELOW
52	CRICKET, TYP
53	EXHAUST FAN TYP, SEE "H" DWGS
55	ALUMINUM GUTTER, TYP
56	VENT THROUGH ROOF, TYP, SEE "P" DWGS
57	SBS MODIFIED BITUMEN ROOFING SYSTEM
58	ALUMINUM COPING, TYP
59	STANDING SEAM METAL ROOFING PANELS OVER COVERBOARD AND COLD FORMED METAL FRAMING
60	GRAVITY HOOD, SEE "H" DWGS
61	ROOF ACCESS LADDER, TYP
62	SCREEN WALL CONNECTED TO BACK OF PARAPET
63	ALUMINUM CONDUCTOR HEAD, DOWNSPOUT AND SCUPPER, TYP
64	OVERFLOW SCUPPER, BOTTOM OF OVERFLOW SCUPPER TO BE 2 INCHES ABOVE BOTTOM OF PRIMARY SCUPPER, TYP
65	COUNTERSLOPE, TYP
66	GENERATOR EXHUAST PIPING, TYP

FOR DEVELOPMENT SERVICES USE

STATE OF FLORIDA — CLARICE ELIZABETH SOLLOG — AR 96709 — REGISTERED ARCHITECT

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NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

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DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

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Tel: (561) 571-3800

CITY OF DELRAY BEACH

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
ROOF PLAN

PROJECT NO. 159676-291242
FILE NAME: AWZ000NF.RVT

SHEET NO.
A-NF-7

ISSUED FOR PERMITTING

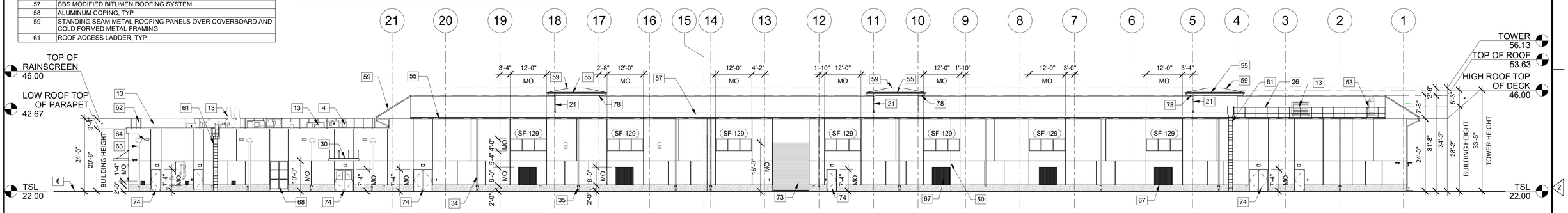
KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
6	FINISH GRADE, SEE "C" DWGS
10	ARCHITECTURAL PRECAST CONCRETE MEDALLIONS, TYP
13	HVAC EQUIPMENT, SEE "H" DWGS
21	ALUMINUM DOWNSPOUT, TYP
22	CONCRETE SPLASH BLOCK, TYP
26	ALUMINUM GUARDRAIL, SEE "S" DWGS
30	SURFACE MOUNTED CANOPY
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
35	ALUMINUM DOWNSPOUT PIPE BOOT, SEE "P" DWGS
50	EXPANSION JOINT, SEE "S" DWGS
53	EXHAUST FAN TYP, SEE "H" DWGS
55	ALUMINUM GUTTER, TYP
56	VENT THROUGH ROOF, TYP, SEE "P" DWGS
57	SBS MODIFIED BITUMEN ROOFING SYSTEM
58	ALUMINUM COPING, TYP
59	STANDING SEAM METAL ROOFING PANELS OVER COVERBOARD AND COLD FORMED METAL FRAMING
61	ROOF ACCESS LADDER, TYP

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
62	SCREEN WALL CONNECTED TO BACK OF PARAPET
63	ALUMINUM CONDUCTOR HEAD, DOWNSPOUT AND SCUPPER, TYP
64	OVERFLOW SCUPPER, BOTTOM OF OVERFLOW SCUPPER TO BE 2 INCHES ABOVE BOTTOM OF PRIMARY SCUPPER, TYP
67	ALUMINUM LOUVER, SEE SCHD
68	ALUMINUM WINDOW SYSTEM, SEE SCHD
71	3/4" STUCCO FINISH SYSTEM (PAINTED), TYP
73	OVERHEAD ROLL-UP DOOR, SEE SCHD
74	ALUMINUM DOOR AND FRAME, SEE SCHD
75	VERTICAL STUCCO REVEAL, TYP
76	HORIZONTAL STUCCO REVEAL, TYP
78	ALUMINUM FASCIA PANEL WITH DRIP, TYP
79	ARCHITECTURAL PRECAST PANEL BASE, TYP
81	ARCHITECTURAL LOUVERED AWNING ATTACHED TO ALUMINUM WINDOW HORIZONTAL MULLIONS. FINISH TO MATCH WINDOW FRAME

GENERAL NOTES:

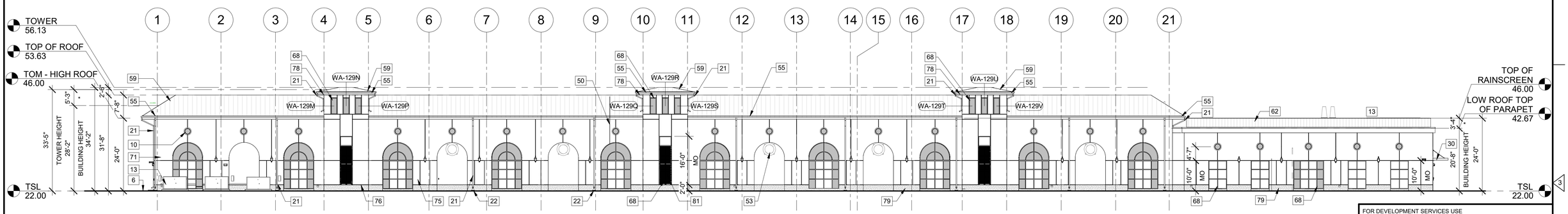
1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS AND SYMBOLS

FOR BUILDING DEPARTMENT USE



NORTH ELEVATION
1/16" = 1'-0"

* THE MAXIMUM ALLOWABLE VERTICAL ENROACHMENT ABOVE MAXIMUM HEIGHT FOR ARCHITECTURAL FEATURES IS 20% ABOVE BUILDING HEIGHT.



SOUTH ELEVATION
1/16" = 1'-0"

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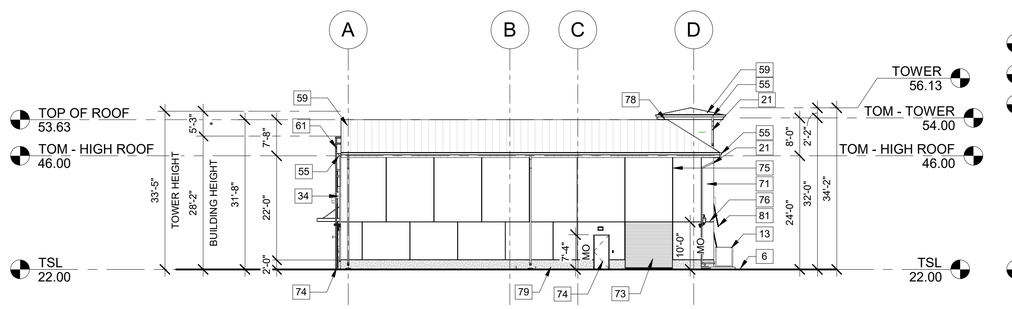

WEST ELEVATION
1/16" = 1'-0"

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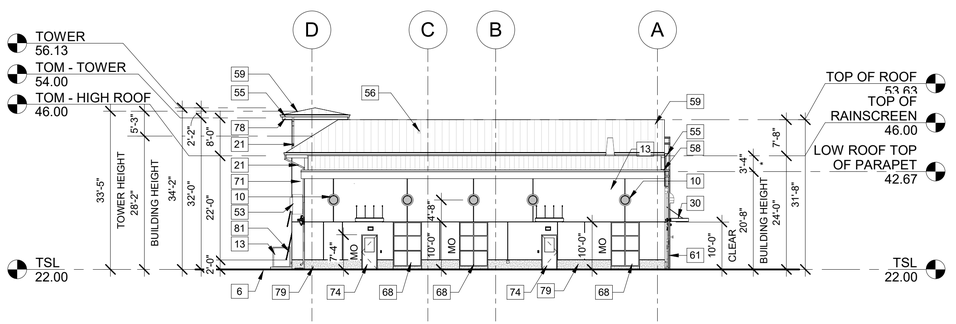

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FOR DEVELOPMENT SERVICES USE

0 8' 16' 32'

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

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STATE OF FLORIDA · CLARICE E. SOLLOG · AR 96709 · REGISTERED ARCHITECT

CLARICE E. SOLLOG, AIA
NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
EXTERIOR ELEVATIONS

PROJECT NO. 159676-291242
FILE NAME: AWZ000MB.RVT

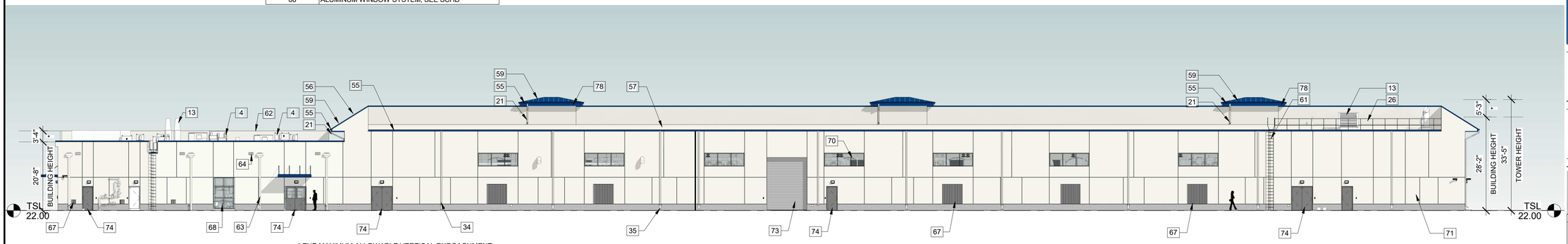
SHEET NO.
A-NF-8

ISSUED FOR PERMITTING

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
6	FINISH GRADE, SEE "C" DWGS
10	ARCHITECTURAL PRECAST CONCRETE MEDALLIONS, TYP
13	HVAC EQUIPMENT, SEE "H" DWGS
21	ALUMINUM DOWNSPOUT, TYP
22	CONCRETE SPLASH BLOCK, TYP
26	ALUMINUM GUARDRAIL, SEE "S" DWGS
30	SURFACE MOUNTED CANOPY
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
35	ALUMINUM DOWNSPOUT PIPE BOOT, SEE "P" DWGS
50	EXPANSION JOINT, SEE "S" DWGS

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
53	EXHAUST FAN TYP, SEE "H" DWGS
55	ALUMINUM GUTTER, TYP
56	VENT THROUGH ROOF, TYP, SEE "P" DWGS
57	SBS MODIFIED BITUMEN ROOFING SYSTEM
59	STANDING SEAM METAL ROOFING PANELS OVER COVERBOARD AND COLD FORMED METAL FRAMING
61	ROOF ACCESS LADDER, TYP
62	SCREEN WALL CONNECTED TO BACK OF PARAPET
63	ALUMINUM CONDUCTOR HEAD, DOWNSPOUT AND SCUPPER, TYP
64	OVERFLOW SCUPPER, BOTTOM OF OVERFLOW SCUPPER TO BE 2 INCHES ABOVE BOTTOM OF PRIMARY SCUPPER, TYP
67	ALUMINUM LOUVER, SEE SCHD
68	ALUMINUM WINDOW SYSTEM, SEE SCHD

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
70	ALUMINUM STOREFRONT ENTRANCE SYSTEM, SEE SCHD
71	3/4" STUCCO FINISH SYSTEM (PAINTED), TYP
73	OVERHEAD ROLL-UP DOOR, SEE SCHD
74	ALUMINUM DOOR AND FRAME, SEE SCHD
75	VERTICAL STUCCO REVEAL, TYP
76	HORIZONTAL STUCCO REVEAL, TYP
78	ALUMINUM FASCIA PANEL WITH DRIP, TYP
79	ARCHITECTURAL PRECAST PANEL BASE, TYP
81	ARCHITECTURAL LOUVERED AWNING ATTACHED TO ALUMINUM WINDOW HORIZONTAL MULLIONS. FINISH TO MATCH WINDOW FRAME



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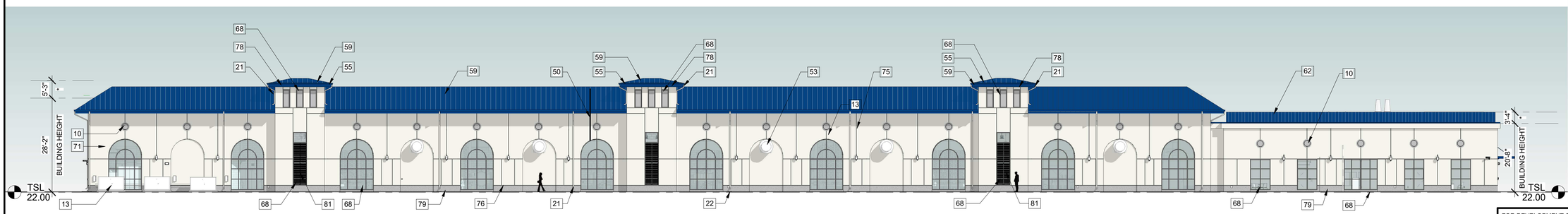

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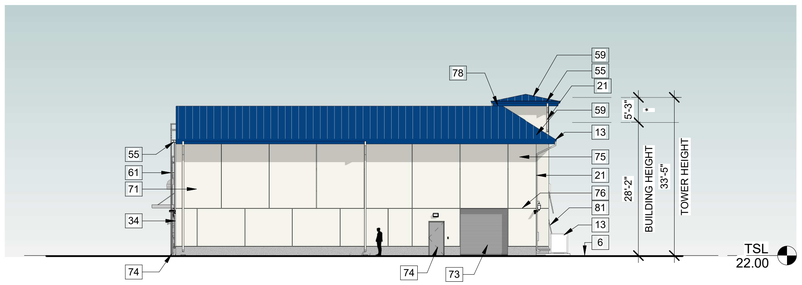

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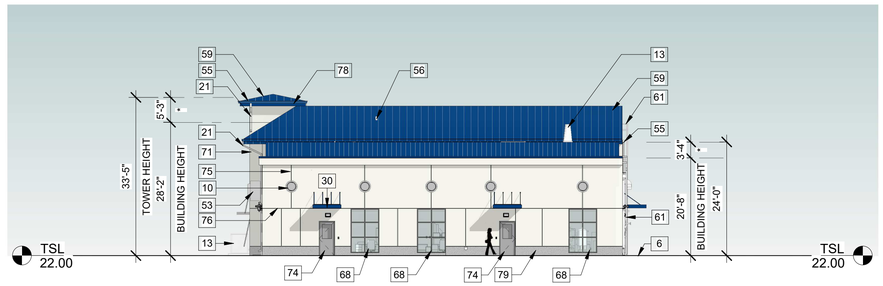

EAST ELEVATION

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FOR BUILDING DEPARTMENT USE

ROOF

Centria 9926 'Arabian Blue': Standing Seam Mtl Roof @ Admin. Bldg / Smooth Finish

FASCIA

Centria 9926 'Arabian Blue': Standing Seam Mtl Mansard Roof @ Process Bldg / Smooth Finish

WINDOWS

Kawneer Windows 'Clear Anod. Alum.': Windows and Entry doors @ Admin. & Process Bldgs

RAILINGS

Industrial Alum. Guardrail 'Clr. Anod. Alum.': Site Product / Smooth Finish

COLUMNS

Industrial Structural Column @ Chem. Stor. Canopy: Match 'Centria' 9926 / Smooth Finish

WALLS

SW 7005 Pure White

Sherwin Williams 7005': Stucco Bldg Walls and Site Wall color / Textured Finish

TRIM/OTHER

PCI 117 'White': Precast Conc. Base @ Admin. & Process Bldgs Base material / Acid Etched Finish

SHUTTERS/AWNINGS

Centria 9926 'Arabian Blue': Awnings @ Process Bldg / Smooth Finish

FENCE

Industrial Alum. Fence and Gate 'Black': Site Product / Smooth finish

OTHER

Glass Types (Guardian Ind.): Insulated / Impact Resistant
1. Clear / Low E
2. Clear / Low E / Translucent
3. Clear / Spandrel (4th Surface – 'Black')

FOR DEVELOPMENT SERVICES USE

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

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STATE OF FLORIDA · CLARICE ELIZABETH SOLLOG · AR 96709 · REGISTERED ARCHITECT

CLARICE E. SOLLOG, AIA
NO.AR96709
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101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY:
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
EXTERIOR ELEVATIONS

PROJECT NO. 159676-291242
FILE NAME: AWZ000MB.RVT

SHEET NO.
A-NF-8A

ISSUED FOR PERMITTING

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
6	FINISH GRADE, SEE "C" DWGS
13	HVAC EQUIPMENT, SEE "H" DWGS
21	ALUMINUM DOWNSPOUT, TYP
26	ALUMINUM GUARDRAIL, SEE "S" DWGS
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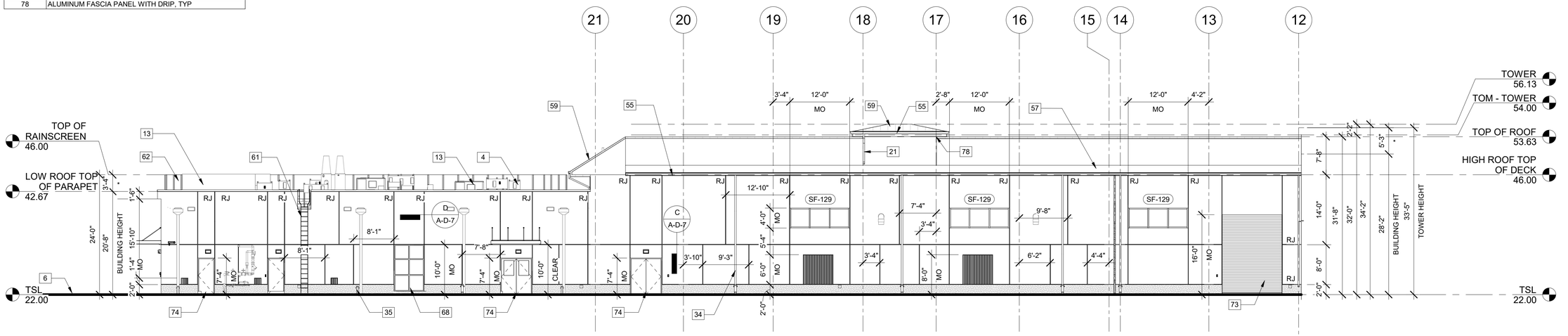

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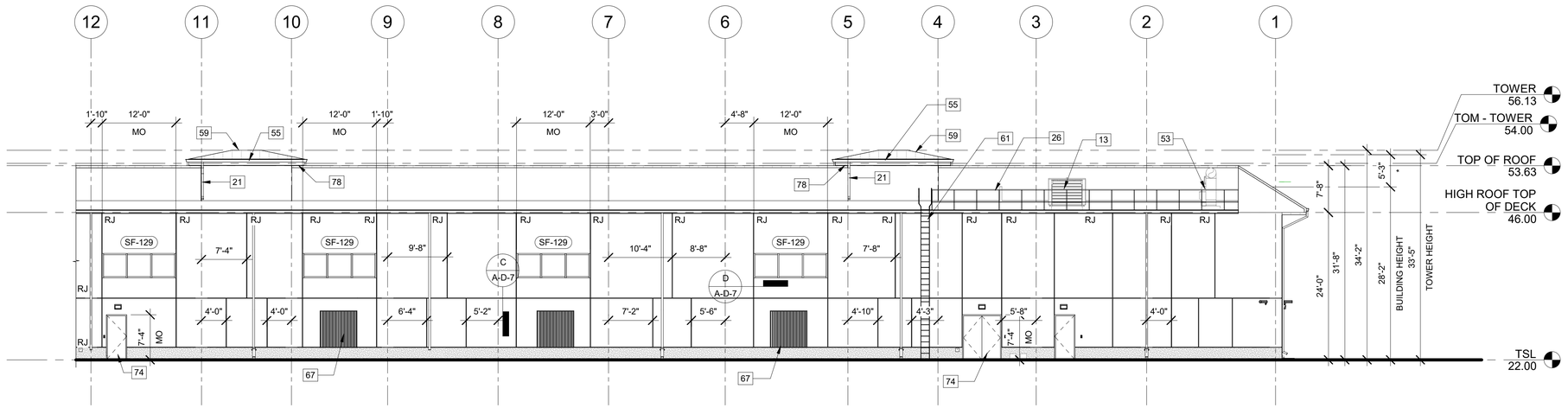

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0 4' 8' 12' 20'

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

FOR BUILDING DEPARTMENT USE

FOR DEVELOPMENT SERVICES USE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
ENLARGED EXTERIOR ELEVATIONS I

PROJECT NO. 159676-291242
FILE NAME: AWZ000NF.ARVT

SHEET NO.
A-NF-9

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NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

ISSUED FOR PERMITTING

KEYNOTE LEGEND	
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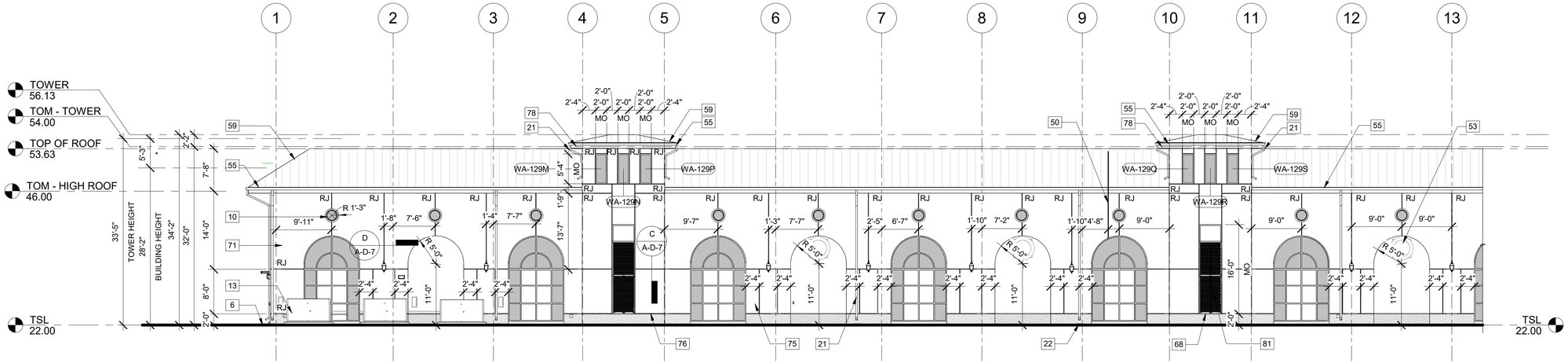

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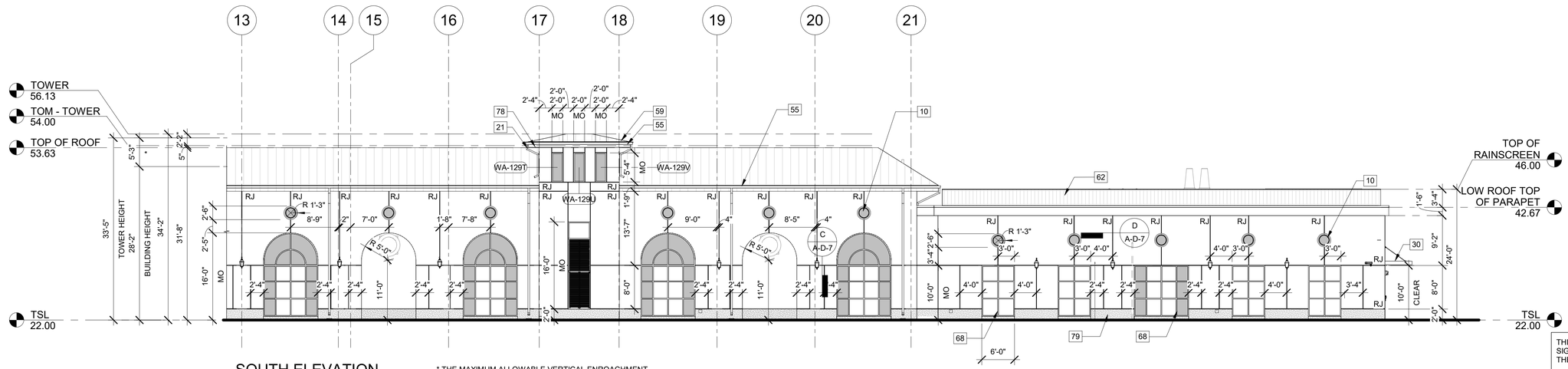

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FOR BUILDING DEPARTMENT USE

FOR DEVELOPMENT SERVICES USE

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101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

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DATE: AUGUST 2025

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Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
ENLARGED EXTERIOR ELEVATIONS II

PROJECT NO. 159676-291242
FILE NAME: AWZ000NF.RVT

SHEET NO.
A-NF-10

ISSUED FOR PERMITTING

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
6	FINISH GRADE, SEE "C" DWGS
10	ARCHITECTURAL PRECAST CONCRETE MEDALLIONS, TYP
13	HVAC EQUIPMENT, SEE "H" DWGS
21	ALUMINUM DOWNSPOUT, TYP
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
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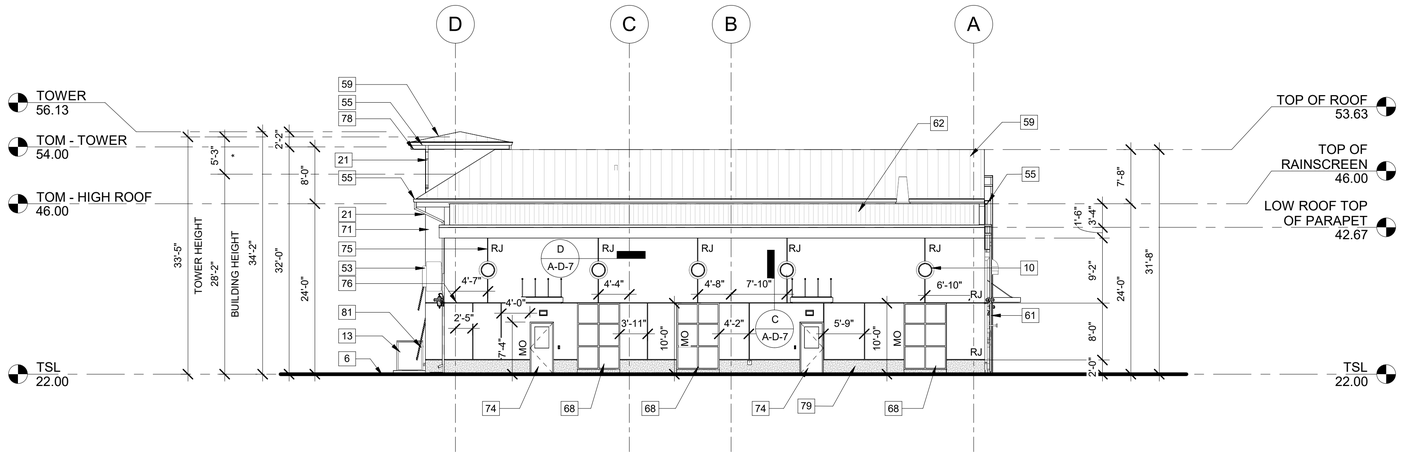

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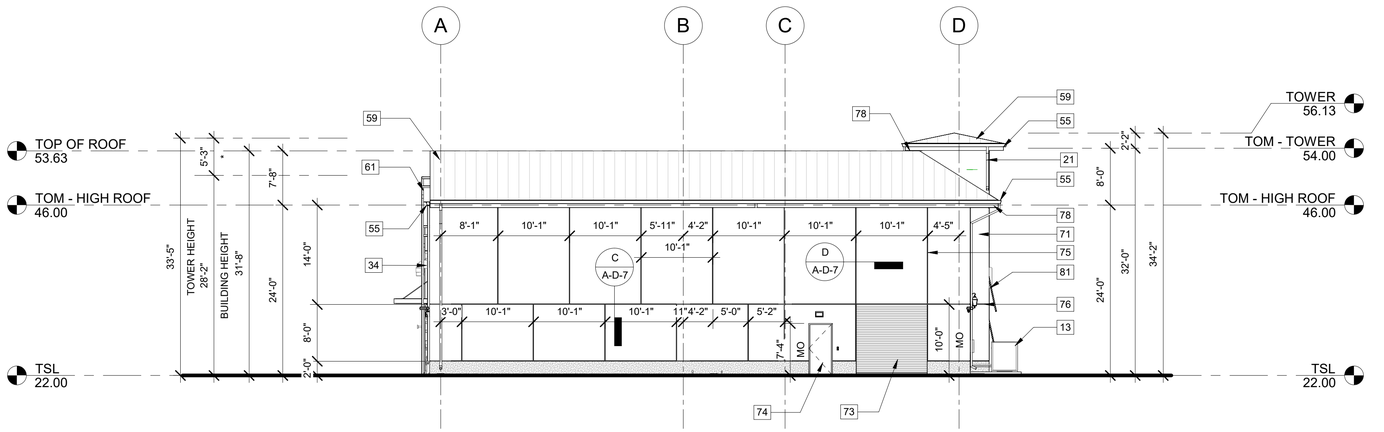

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FOR BUILDING DEPARTMENT USE

0 4' 8' 12' 20'

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

FOR DEVELOPMENT SERVICES USE

REV. NO.	DATE	DRWN	CHKD	REMARKS

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DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
ENLARGED EXTERIOR ELEVATIONS III

PROJECT NO. 159676-291242
FILE NAME: AWZ000NF.RVT

SHEET NO.
A-NF-11

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AR 96709
REGISTERED ARCHITECT

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101 SOUTHHALL LANE, SUITE 200
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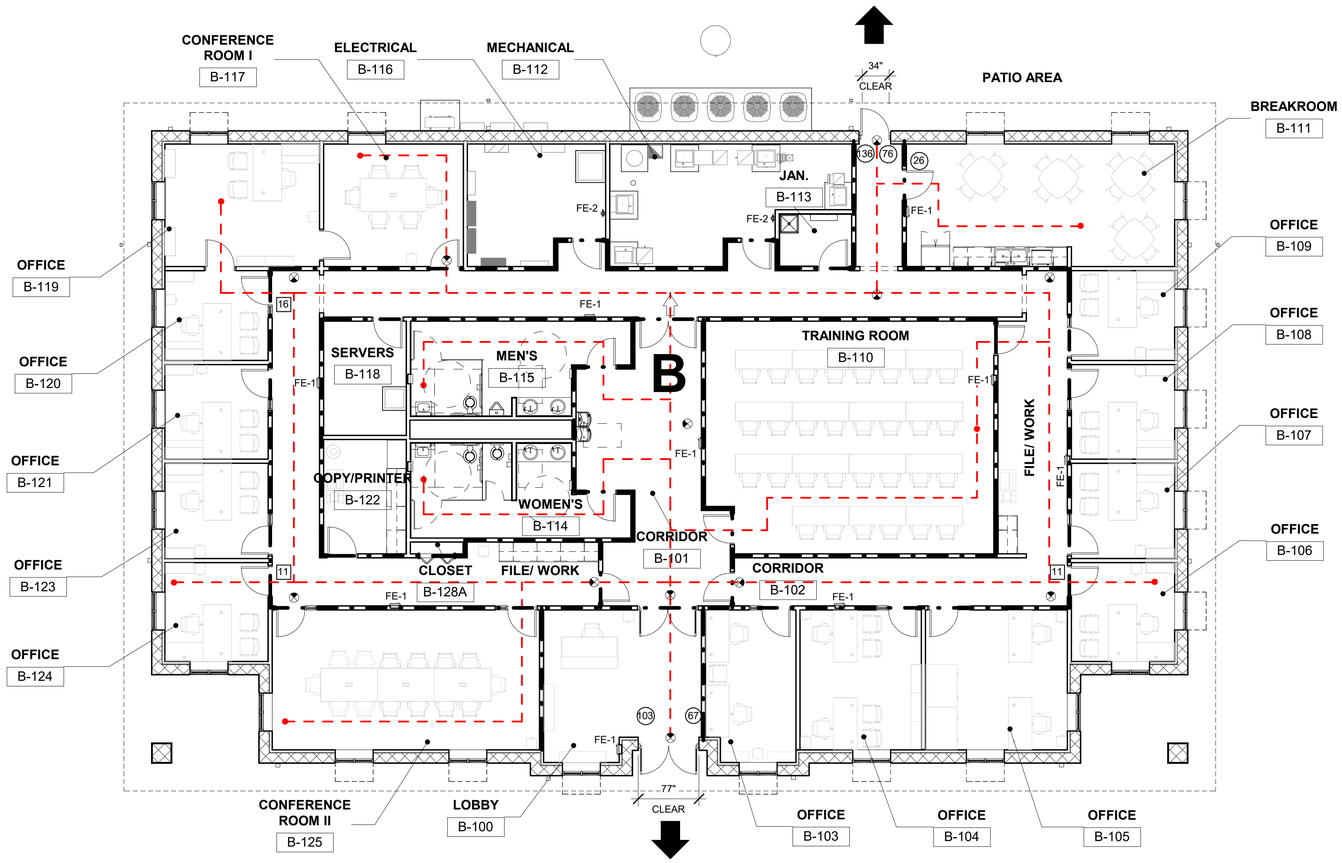
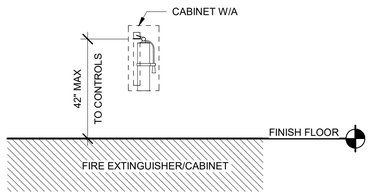


LIFE SAFETY PLAN
1/8" = 1'-0"

LIFE SAFETY LEGEND

- EXIT DISCHARGE
- AREA OR SPACE EXIT
- EXIT SIGN
- FE — FIRE EXTINGUISHER
- FE — FIRE EXTINGUISHER W/ CABINET
- EGRESS PATH
- 1 HOUR FIRE RATING
- (X) — TRAVEL DISTANCE (FEET)
- [X] — COMMON PATH OF TRAVEL (FEET)
- (R) — CARD READER, SEE "E" DWGS

FIRE EXTINGUISHER MOUNTING HEIGHT



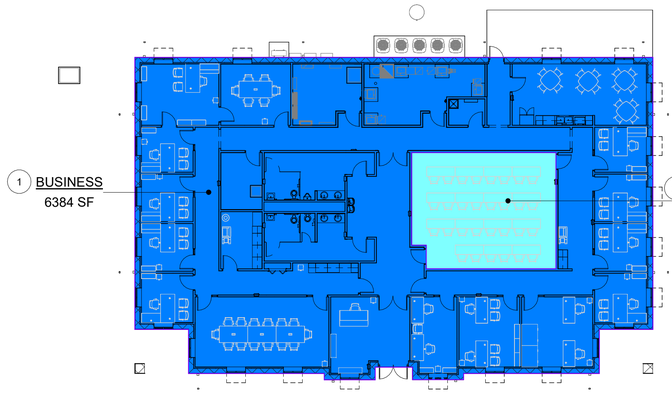
ADMINISTRATION BUILDING FIRE EXTINGUISHER SCHEDULE

TAG	QTY	MODEL	MANUFACTURER	DESCRIPTION
FE-1	9	ACADEMY 1027 (COSMIC 10E)	JL INDUSTRIES (ACTIVAR INC)	NON-RATED WALL, 3" ROLLED, ADA COMPLIANT CABINET W/ 10LB DRY CHEMICAL
FE-2	2	COSMIC 10E UL RATED 4A-80BC	JL INDUSTRIES (ACTIVAR INC)	10 LB DRY CHEMICAL, BRACKET MOUNTED

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS.
2. SEE SHEET A-GN-4 FOR BUILDING CODE KEY DETERMINATIONS
3. SEE SHEET A-GN-2 FOR ARCHITECTURAL SITE PLAN AND BUILDING SITING INFORMATION INCLUDING SEPERATION FROM ADJACENT STRUCTURES, ETC.
4. SEE SHEET A-AB-7 REFLECTED CELING PLAN AND "E" DRAWINGS FOR FULL EXTENTS OF EMERGENCY LIGHTING IN SPACES.

N



OCCUPANT LOAD KEY PLAN
1/16" = 1'-0"

CALCULATED OCCUPANT LOAD

NUMBER	SPACES	AREA	SF PER OCCUPANT (FBC)	OCCUPANT LOAD (FBC)*	SF PER OCCUPANT (FFPC)	OCCUPANT LOAD (FFPC)*
1	BUSINESS	6385 SF	150 GROSS	43	150	43
3	ASSEMBLY	733 SF	15 NET	49	15	49

*MORE STINGNENT REQUIREMENTS TO BE USED FOR EGRESS — **TOTAL OCCUPANTS (FBC) 92** — **TOTAL OCCUPANTS (FFPC) 92**

OCCUPANT LOAD FACTOR PER TABLE 1004.5

- BUSINESS
- ASSEMBLY

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

FOR BUILDING DEPARTMENT USE

FOR DEVELOPMENT SERVICES USE

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STATE OF FLORIDA — CLARICE E. LIZABETH SOLLOG — AR 96709 — REGISTERED ARCHITECT

CLARICE E. SOLLOG, AIA
NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: C. WYNN
DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
CROSS CHK'D BY: A. SHELDON
APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

ADMINISTRATION BUILDING
LIFE SAFETY PLAN

PROJECT NO. 159676-291242
FILE NAME: AWZ000OB.RVT

SHEET NO.
A-AB-1

ISSUED FOR PERMITTING

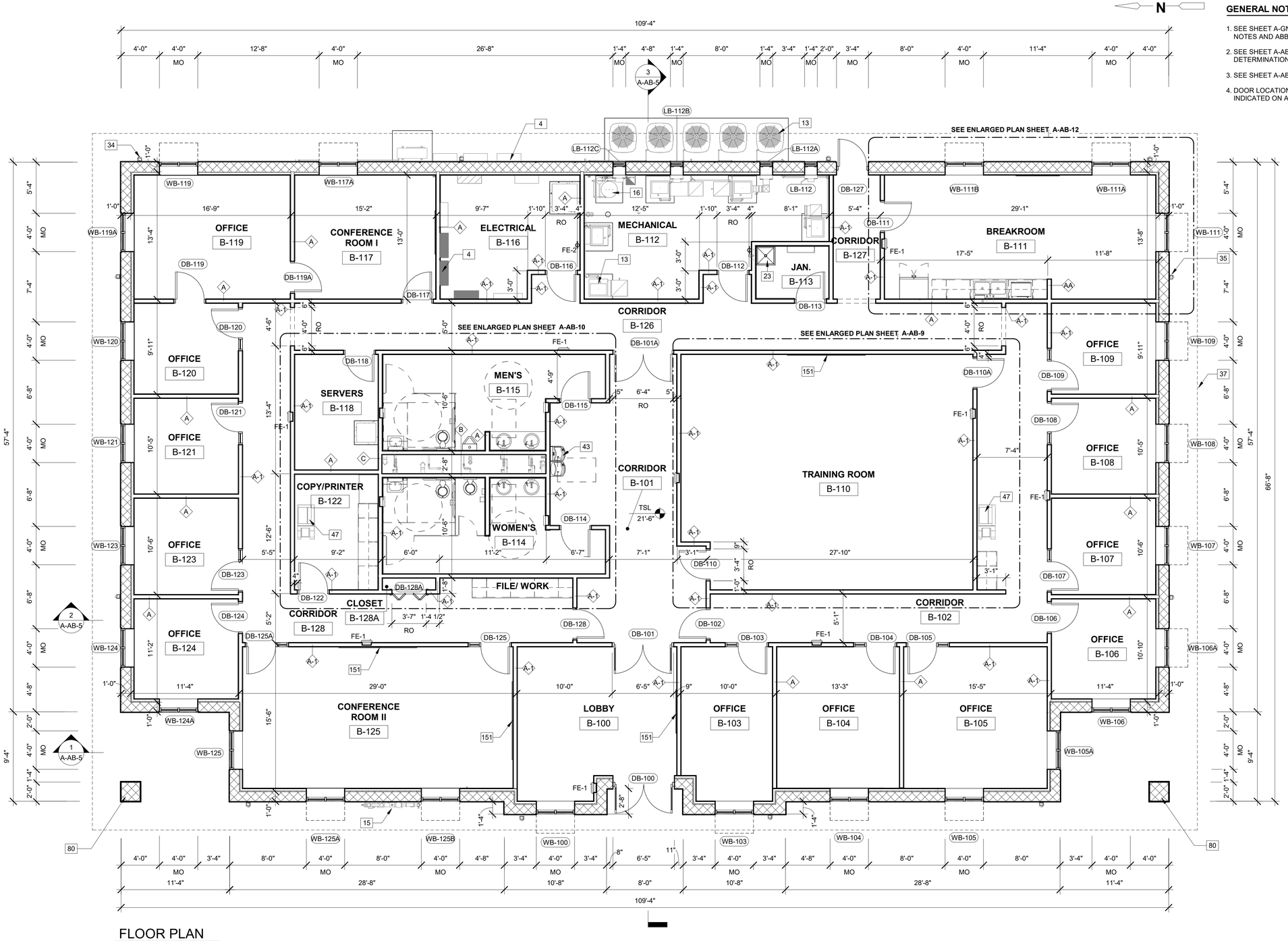
FOR BUILDING DEPARTMENT USE

N

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS.
2. SEE SHEET A-AB-5 FOR BUILDING CODE KEY DETERMINATIONS.
3. SEE SHEET A-AB-1 FOR LIFE SAFETY PLAN.
4. DOOR LOCATION IN STUD WALLS ARE AS INDICATED ON A-GN-1 UNLESS OTHERWISE NOTED.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
13	HVAC EQUIPMENT, SEE "H" DWGS
15	PLUMBING PIPES, SEE "P" DWGS
16	PLUMBING EQUIPMENT, SEE "P" DWGS
23	MOP SINK, SEE "P" DWGS
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
35	ALUMINUM DOWNSPOUT PIPE BOOT, SEE "P" DWGS
37	OUTLINE OF ROOF ABOVE
43	HI-LOW DRINKING FOUNTAIN WITH BOTTLE FILLER, SEE "P" DWGS
47	COPIER MACHINE (NIC)
80	CMU PILASTER, SEE "S" DWGS
151	50" WALL MOUNTED TELEVISION, TYP (PROVIDE BACKING FOR MOUNTING)



0 2' 4' 6' 10'

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

FLOOR PLAN

3/16" = 1'-0"

FOR DEVELOPMENT SERVICES USE

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CLARICE E. SOLLOG, AIA
NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

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CITY OF DELRAY BEACH

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

ADMINISTRATION BUILDING
FLOOR PLAN

PROJECT NO. 159676-291242
FILE NAME: AWZ000OB.RVT

SHEET NO.
A-AB-2

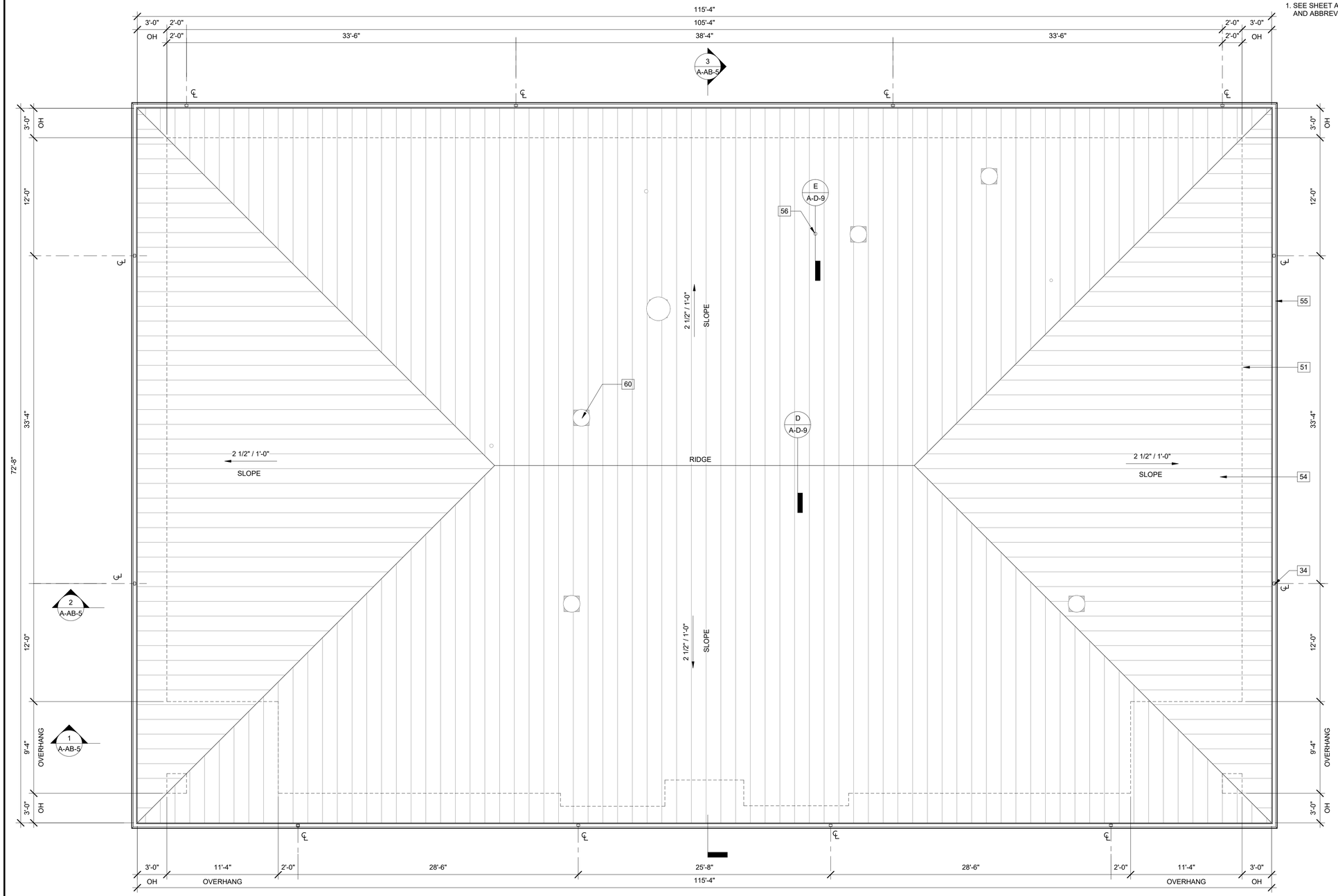
ISSUED FOR PERMITTING

FOR BUILDING DEPARTMENT USE

N

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS.



ROOF PLAN
3/16" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
51	BUILDING OUTLINE BELOW
54	STANDING SEAM METAL ROOFING SYSTEM OVER COVERBOARD AND RIGID INSULATION
55	ALUMINUM GUTTER, TYP
56	VENT THROUGH ROOF, TYP, SEE "P" DWGS
60	GRAVITY HOOD, SEE "H" DWGS

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

FOR DEVELOPMENT SERVICES USE

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AR 96709
REGISTERED ARCHITECT

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DELRAY BEACH, FLORIDA

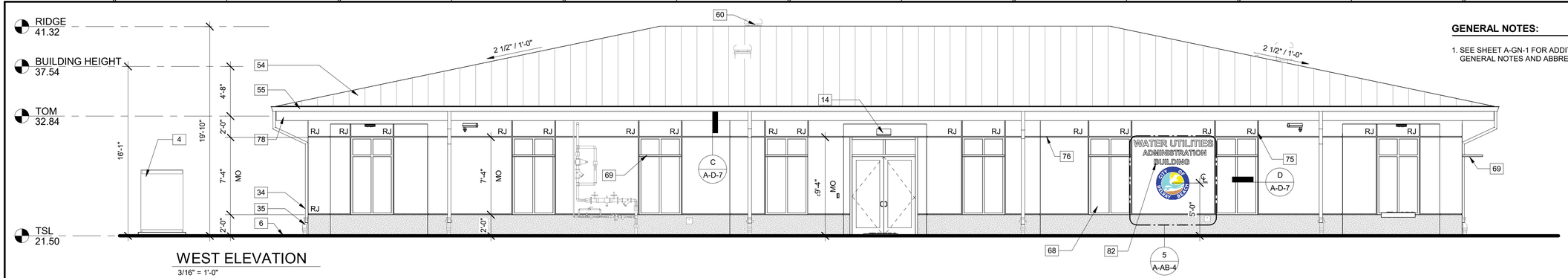
DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

ADMINISTRATION BUILDING
ROOF PLAN

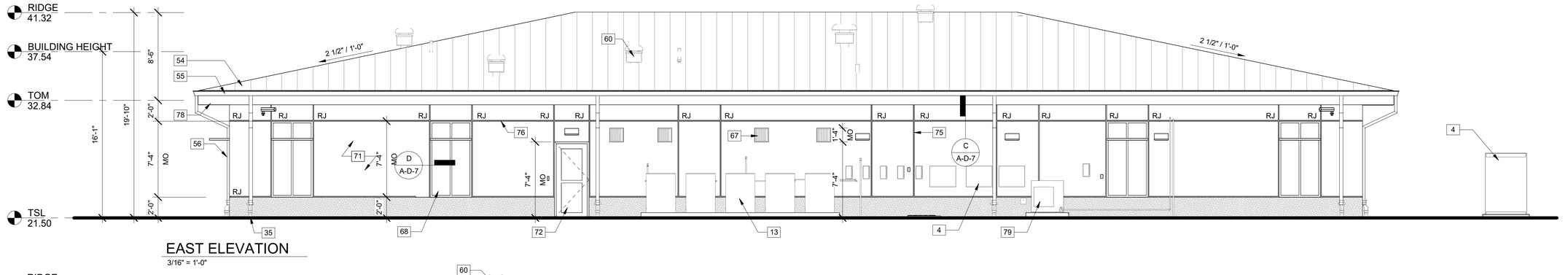
PROJECT NO. 159676-291242
FILE NAME: AWZ000OB.RVT

SHEET NO.
A-AB-3

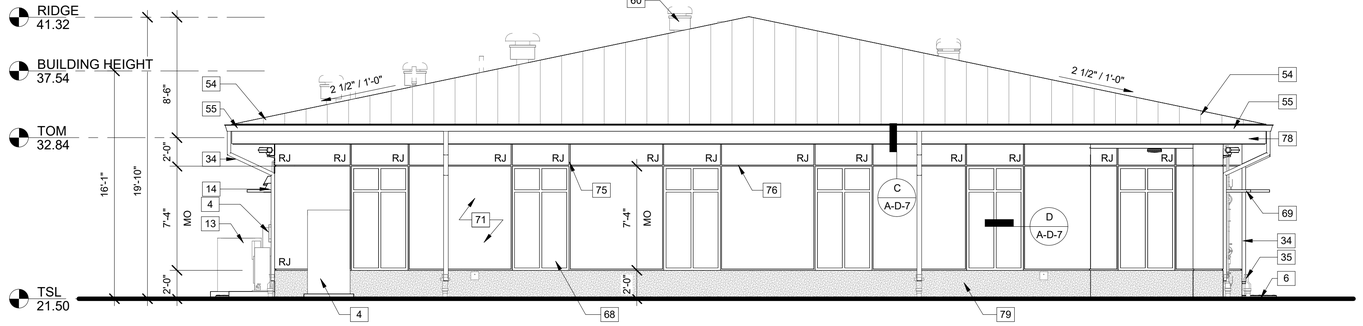
ISSUED FOR PERMITTING



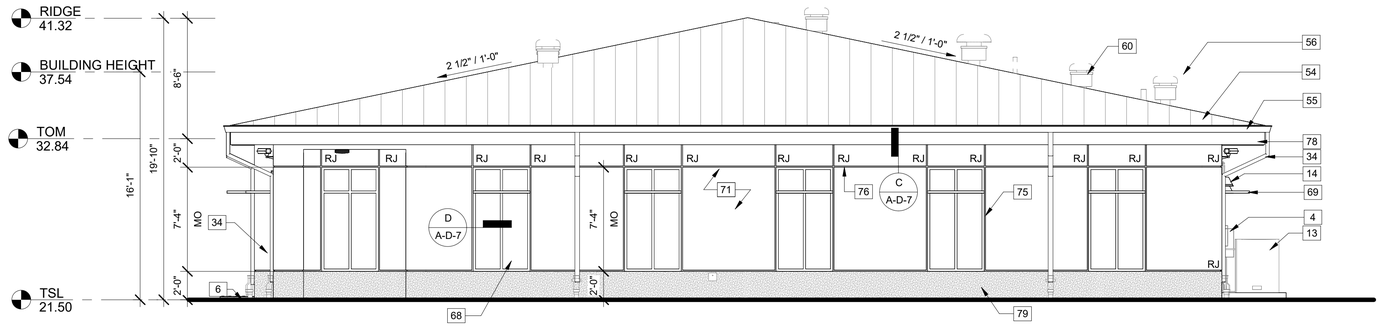
WEST ELEVATION
3/16" = 1'-0"



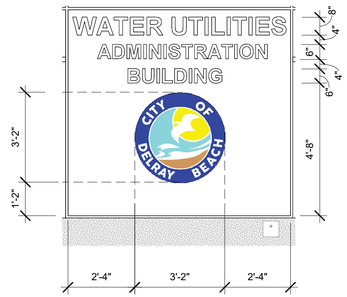
EAST ELEVATION
3/16" = 1'-0"



NORTH ELEVATION
3/16" = 1'-0"



SOUTH ELEVATION
3/16" = 1'-0"



ENLARGED SIGNAGE DETAIL
3/8" = 1'-0"

GENERAL NOTES:

1. SEE SHEET A-GN-1 FOR ADDITIONAL GENERAL NOTES AND ABBREVIATIONS.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
6	FINISH GRADE, SEE "C" DWGS
13	HVAC EQUIPMENT, SEE "H" DWGS
14	LIGHT FIXTURE, SEE "E" DWGS
34	ALUMINUM DOWNSPOUT CONNECTED TO BELOW GRADE STORMWATER PIPING SYSTEM,TYP. SEE "C" DWGS
35	ALUMINUM DOWNSPOUT PIPE BOOT, SEE "P" DWGS
54	STANDING SEAM METAL ROOFING SYSTEM OVER COVERBOARD AND RIGID INSULATION
55	ALUMINUM GUTTER, TYP
56	VENT THROUGH ROOF, TYP, SEE "P" DWGS
60	GRAVITY HOOD, SEE "H" DWGS
67	ALUMINUM LOUVER, SEE SCHD
68	ALUMINUM WINDOW SYSTEM, SEE SCHD
69	SUNSHADE ATTACHED TO ALUMINUM WINDOW HORIZONTAL MULLION. FINISH TO MATCH WINDOW FRAME
71	3/4" STUCCO FINISH SYSTEM (PAINTED), TYP
72	STOREFRONT DOOR AND FRAME, TYP
75	VERTICAL STUCCO REVEAL, TYP
76	HORIZONTAL STUCCO REVEAL, TYP
78	ALUMINUM FASCIA PANEL WITH DRIP, TYP
79	ARCHITECTURAL PRECAST PANEL BASE, TYP
82	WALL MOUNTED ALUMINUM BUILDIING SIGNAGE

FOR BUILDING DEPARTMENT USE

0 1' 2' 3' 5'
SCALE: 3/8" = 1'-0"

0 2' 4' 6' 10'
SCALE: 3/16" = 1'-0"

FOR DEVELOPMENT SERVICES USE

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CLARICE E. SOLLOG, AIA
NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

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DRAWN BY: G. HOBDY
SHEET CHK'D BY: C. WYNN
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APPROVED BY: C. SOLLOG
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

ADMINISTRATION BUILDING
EXTERIOR ELEVATIONS

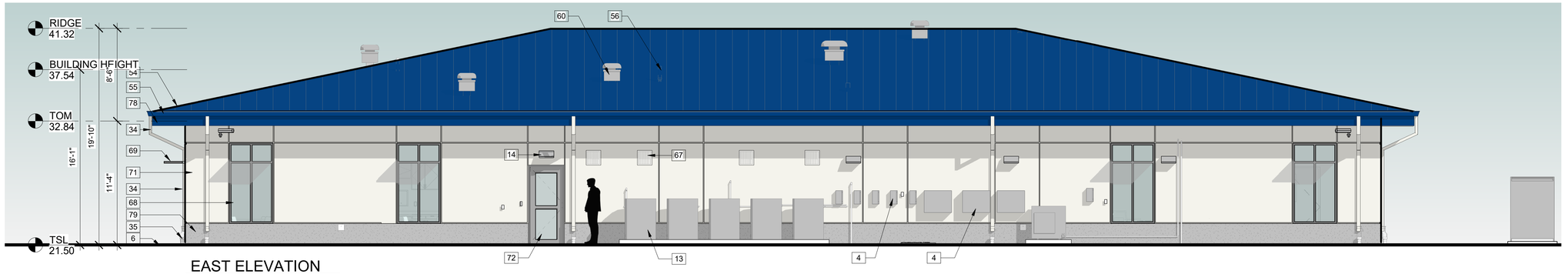
PROJECT NO. 159676-291242
FILE NAME: AWZ000OB.RVT

SHEET NO.
A-AB-4

ISSUED FOR PERMITTING

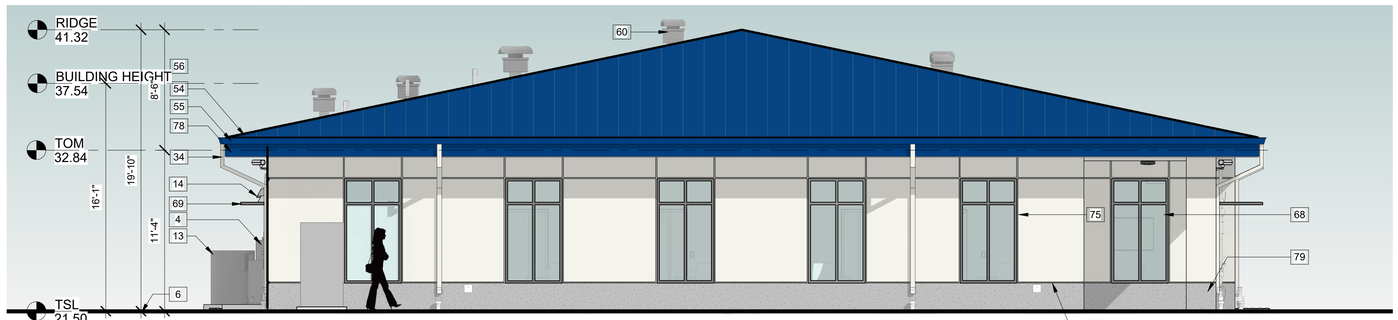
WEST ELEVATION

3/16" = 1'-0"



EAST ELEVATION

3/16" = 1'-0"



NORTH ELEVATION

3/16" = 1'-0"

SOUTH ELEVATION

3/16" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
4	ELECTRICAL EQUIPMENT, SEE "E" DWGS
6	FINISH GRADE, SEE "C" DWGS
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70	ALUMINUM STOREFRONT ENTRANCE SYSTEM, SEE SCHD
71	3/4" STUCCO FINISH SYSTEM (PAINTED), TYP
72	STOREFRONT DOOR AND FRAME, TYP
75	VERTICAL STUCCO REVEAL, TYP
76	HORIZONTAL STUCCO REVEAL, TYP
78	ALUMINUM FASCIA PANEL WITH DRIP, TYP
79	ARCHITECTURAL PRECAST PANEL BASE, TYP
82	WALL MOUNTED ALUMINUM BUILDIING SIGNAGE
83	CITY OF DELRAY BEACH WALL MOUNTED SEAL

FOR BUILDING DEPARTMENT USE

ROOF

Centria 9926 'Arabian Blue': Standing Seam Mtl Roof @ Admin. Bldg / Smooth Finish

FASCIA

Centria 9926 'Arabian Blue': Standing Seam Mtl Mansard Roof @ Process Bldg / Smooth Finish

WINDOWS

Kawneer Windows 'Clear Anod. Alum.': Windows and Entry doors @ Admin. & Process Bldgs

RAILINGS

Industrial Alum. Guardrail 'Clr. Anod. Alum.': Site Product / Smooth Finish

COLUMNS

Industrial Structural Column @ Chem. Stor. Canopy: Match 'Centria' 9926 / Smooth Finish

WALLS

SW 7005 Pure White

Sherwin Williams 7005': Stucco Bldg Walls and Site Wall color / Textured Finish

TRIM/OTHER

PCI 117 'White': Precast Conc. Base @ Admin. & Process Bldgs Base material / Acid Etched Finish

SHUTTERS/AWNINGS

Centria 9926 'Arabian Blue': Awnings @ Process Bldg / Smooth Finish

FENCE

Industrial Alum. Fence and Gate 'Black': Site Product / Smooth finish

OTHER

Glass Types (Guardian Ind.): Insulated / Impact Resistant
1. Clear / Low E
2. Clear / Low E / Translucent
3. Clear / Spandrel (4th Surface - "Black")

FOR DEVELOPMENT SERVICES USE

0 2' 4' 6' 10'

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

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STATE OF FLORIDA · CLARICE ELIZABETH SOLLOG · AR 96709 · REGISTERED ARCHITECT

CLARICE E. SOLLOG, AIA
NO.AR96709
FL. CORP. ARCHITECTURE AA-002781
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FL 32751

REV. NO.	DATE	DRWN	CHKD	REMARKS

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DATE: AUGUST 2025

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Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

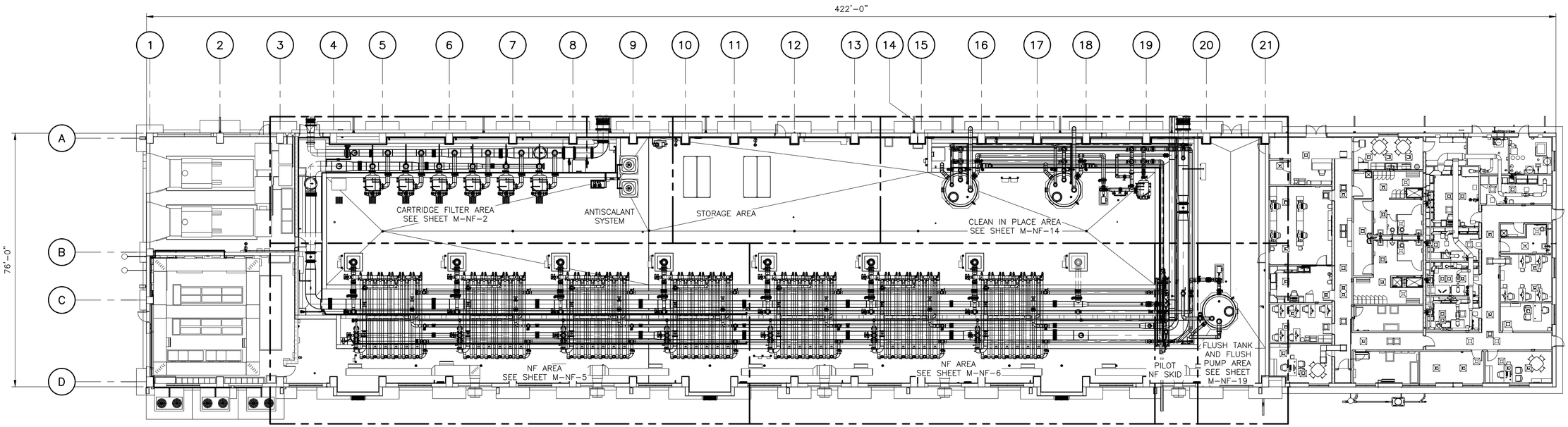
ADMINISTRATION BUILDING
EXTERIOR ELEVATIONS

PROJECT NO. 159676-291242
FILE NAME: AWZ000B.RVT

SHEET NO.
A-AB-4A

ISSUED FOR PERMITTING

FOR BUILDING DEPARTMENT USE



PLAN
1/16" = 1'-0"

FOR DEVELOPMENT SERVICES USE

1/16" = 1'- 0"
8 4 0 8 16

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JOSHUA A. BENJAMIN
LICENSE
NO. 100436
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

DATE:
JOSHUA A BENJAMIN
PE NO. 100436

McCAFFERTY BRINSON consulting
633 S. Andrews Ave., Suite 402
Fort Lauderdale, FL 33301
Tel: (954) 797-7100
Florida Registry No. 26952

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. BENJAMIN
DRAWN BY: D. RAMALES
SHEET CHK'D BY: J. BENJAMIN
CROSS CHK'D BY: F. BRINSON
APPROVED BY: J. BENJAMIN
DATE: AUGUST 2025

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Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

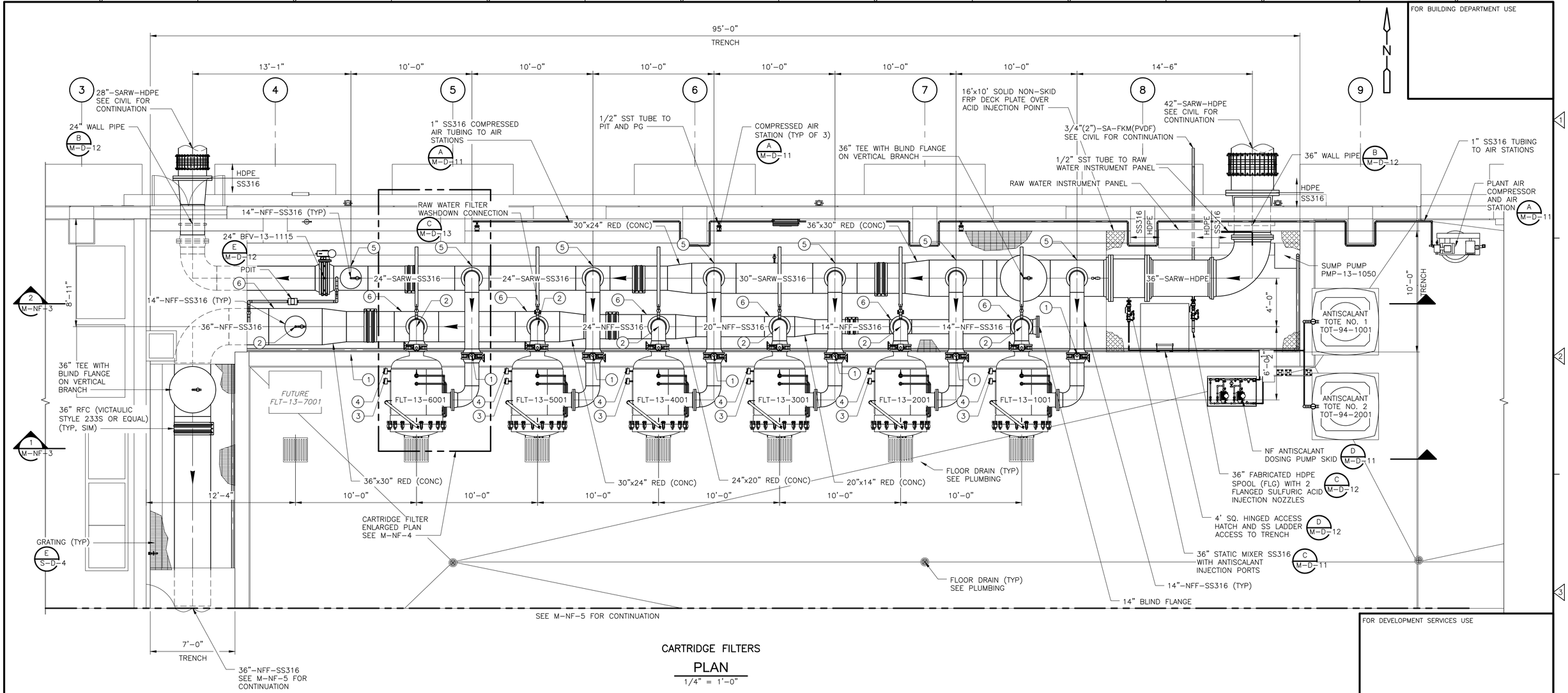
DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
OVERALL PLAN

PROJECT NO. 159676-291242
FILE NAME: M-NF-01.dwg

SHEET NO.
M-NF-1

ISSUED FOR PERMITTING



CARTRIDGE FILTERS

PLAN

1/4" = 1'-0"

CARTRIDGE FILTER NO.	(1)	(2)	(3)	(4)	(5)	(6)
FLT-13-1001	14" BFV-13-1001	14" BFV-13-1002	PG-13-1001A	PG-13-1001B	36"x14" TEE	14" TEE
FLT-13-2001	14" BFV-13-2001	14" BFV-13-2002	PG-13-2001A	PG-13-2001B	36"x14" TEE	14" TEE
FLT-13-3001	14" BFV-13-3001	14" BFV-13-3002	PG-13-3001A	PG-13-3001B	30"x14" TEE	20"x14" TEE
FLT-13-4001	14" BFV-13-4001	14" BFV-13-4002	PG-13-4001A	PG-13-4001B	30"x14" TEE	24"x14" TEE
FLT-13-5001	14" BFV-13-5001	14" BFV-13-5002	PG-13-5001A	PG-13-5001B	24"x14" TEE	30"x14" TEE
FLT-13-6001	14" BFV-13-6001	14" BFV-13-6002	PG-13-6001A	PG-13-6001B	24"x14" TEE	30"x14" TEE
FLT-13-7001	*14" BFV-13-7001*	36"X14" TEE WITH BLIND FLANGE	*PG-13-7001A*	*PG-13-7001B*	24"x14" TEE WITH BLIND FLANGE	*36"x14" TEE*

NOTE:

1. JOINTS FOR FIELD ASSEMBLY OF LARGE DIAMETER FABRICATED TRENCH HEADER SUBASSEMBLIES SHALL BR PROVIDED AT LOCATIONS TO FACILITATE INSTALLATION AND ALLOW FOR EXPANSION AND DISASSEMBLY FOR REPAIRS AND SERVICING. CONTRACTOR SHALL SUBMIT DETAILED PIPE LAYOUT AND FABRICATION DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL.

FOR BUILDING DEPARTMENT USE

FOR DEVELOPMENT SERVICES USE

1/4" = 1'- 0"
2 1 0 2 4

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JOSHUA A. BENJAMIN LICENSE NO. 100436 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE:
JOSHUA A BENJAMIN
PE NO. 100436

McCAFFERTY BRINSON consulting
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Tel: (954) 797-7100
Florida Registry No. 26952

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DATE: AUGUST 2025

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Tel: (561) 571-3800

CITY OF DELRAY BEACH

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

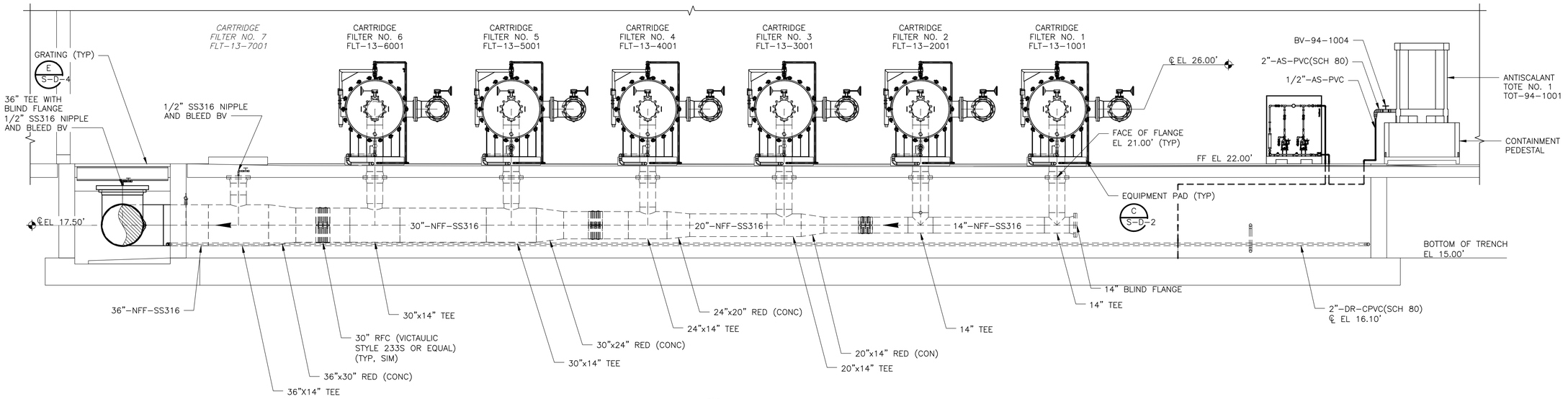
NF MEMBRANE BUILDING
CARTRIDGE FILTERS AREA
ENLARGED PLAN

PROJECT NO. 159676-291242
FILE NAME: M-NF-02.dwg

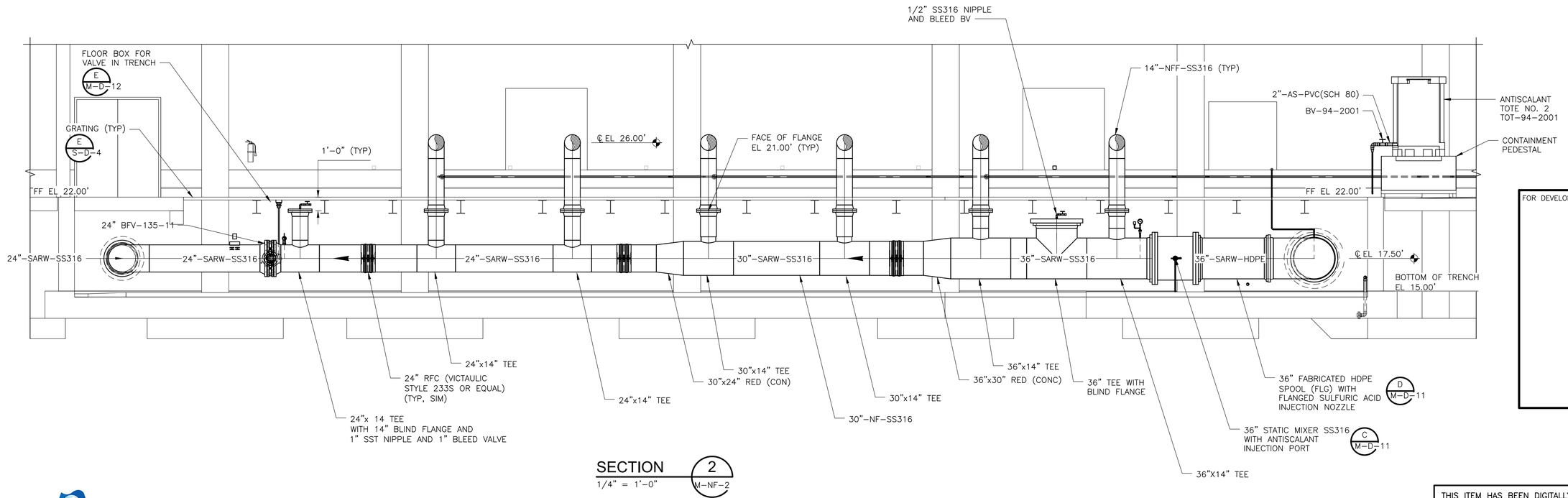
SHEET NO.
M-NF-2

ISSUED FOR PERMITTING

FOR BUILDING DEPARTMENT USE



SECTION 1
1/4" = 1'-0"
M-NF-2



SECTION 2
1/4" = 1'-0"
M-NF-2

FOR DEVELOPMENT SERVICES USE

McCafferty Brinson consulting
633 S. Andrews Ave., Suite 402
Fort Lauderdale, FL 33301
Tel: (954) 797-7100
Florida Registry No. 26952

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CITY OF DELRAY BEACH

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
CARTRIDGE FILTERS AREA
SECTIONS

JOSHUA A BENJAMIN LICENSE NO. 100436 STATE OF FLORIDA PROFESSIONAL ENGINEER

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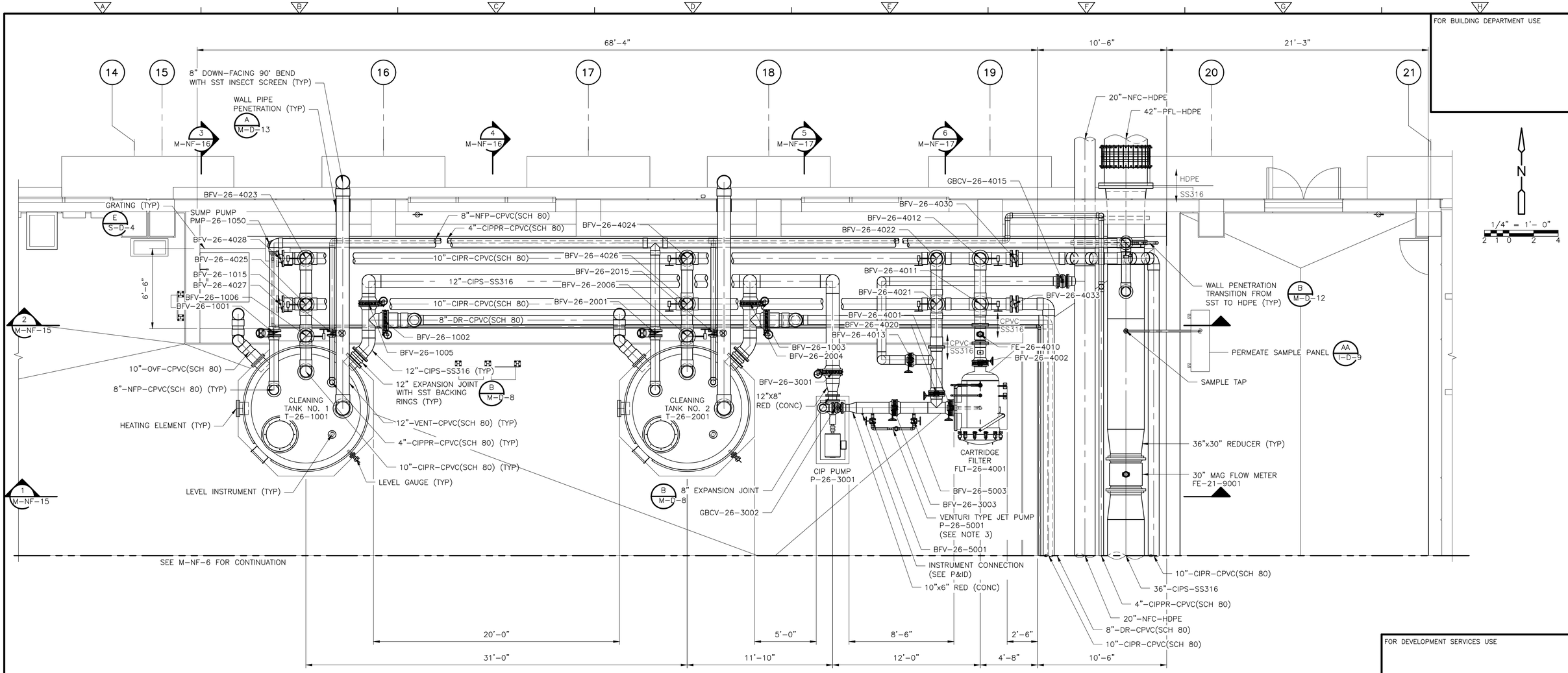
DATE:
JOSHUA A BENJAMIN
PE NO. 100436

PROJECT NO. 159676-291242
FILE NAME: M-NF-03.dwg

SHEET NO.
M-NF-3

ISSUED FOR PERMITTING

FOR BUILDING DEPARTMENT USE



NOTES:

1. CLEANING TANKS SHALL BE IDENTICAL IN DESIGN. NOTES AND REFERENCES ABOVE REFERRING TO ONE SHALL APPLY TO BOTH TANKS.
2. NOZZLES FOR TANK FILL AND CIP RETURN PIPING ENTERING THE TOP OF TANKS SHALL BE EQUIPPED WITH INTERNAL DROP PIPES THAT EXTEND TO WITHIN 3' FROM THE BOTTOM OF THE TANK.
3. PENBERTHY 2" PVC MODEL LL, OR EQUAL WITH 4' REINFORCED FLEXIBLE PVC SUCTION HOSE. PROVIDE ONE SHELF SPARE JET PUMP TO OWNER.

PLAN
1/4" = 1'-0"

FOR DEVELOPMENT SERVICES USE

JOSHUA A. BENJAMIN LICENSE NO. 100436 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE:
JOSHUA A BENJAMIN
PE NO. 100436

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Fort Lauderdale, FL 33301
Tel: (954) 797-7100
Florida Registry No. 26952

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. BENJAMIN
DRAWN BY: D. RAMALES
SHEET CHK'D BY: J. BENJAMIN
CROSS CHK'D BY: F. BRINSON
APPROVED BY: J. BENJAMIN
DATE: AUGUST 2025

CDM Smith
621 N.W. 53rd St., Suite 265
Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
CLEAN IN PLACE AREA
PLAN

PROJECT NO. 159676-291242
FILE NAME: M-NF-14.dwg

SHEET NO.
M-NF-14

ISSUED FOR PERMITTING

XREFs: [CDMS_2234] Images: []
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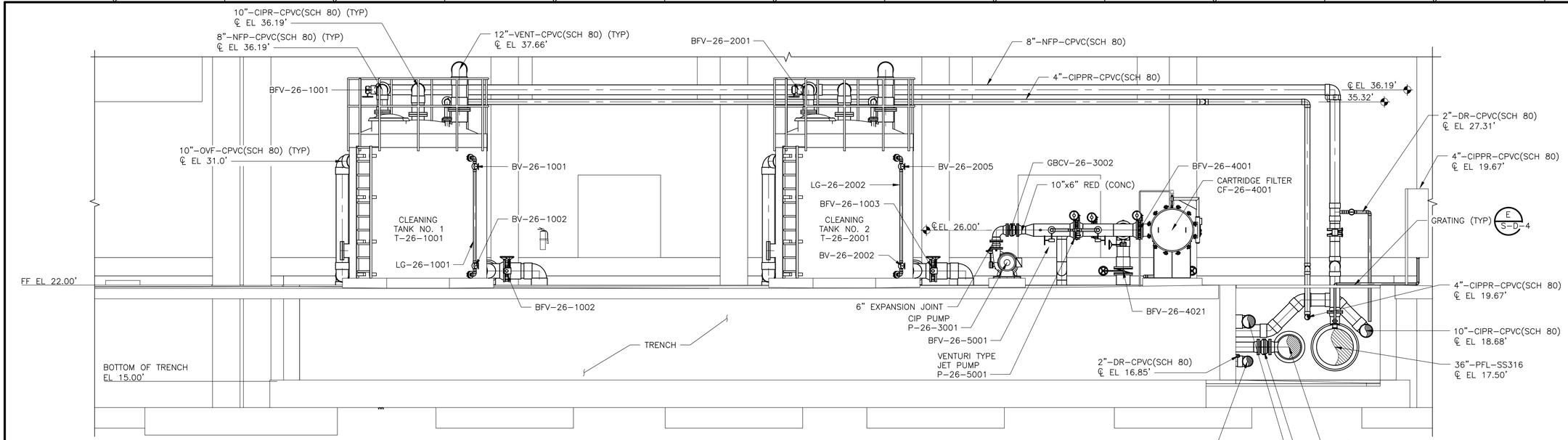
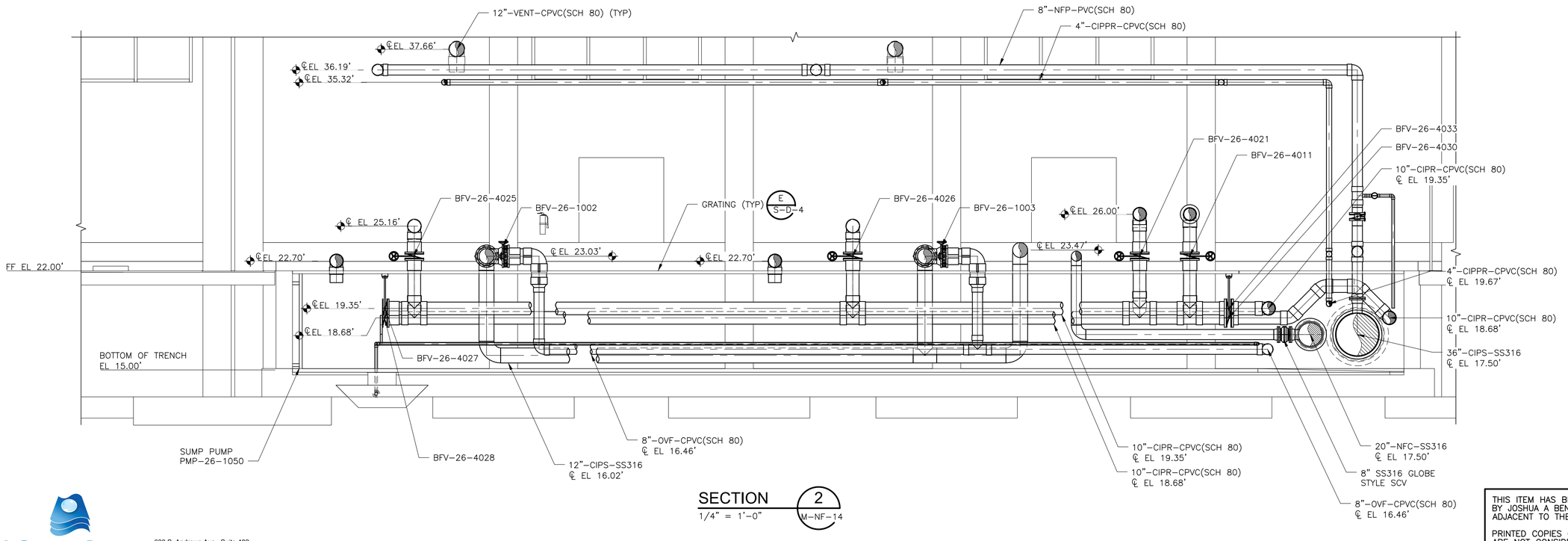


SECTION 1
1/4" = 1'-0"
M-NF-14



SECTION 2
1/4" = 1'-0"
M-NF-14

FOR BUILDING DEPARTMENT USE

FOR DEVELOPMENT SERVICES USE

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JOSHUA A. BENJAMIN
LICENSE
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
CLEAN IN PLACE AREA
SECTIONS I

PROJECT NO. 159676-291242
FILE NAME: M-NF-15.dwg

SHEET NO.
M-NF-15

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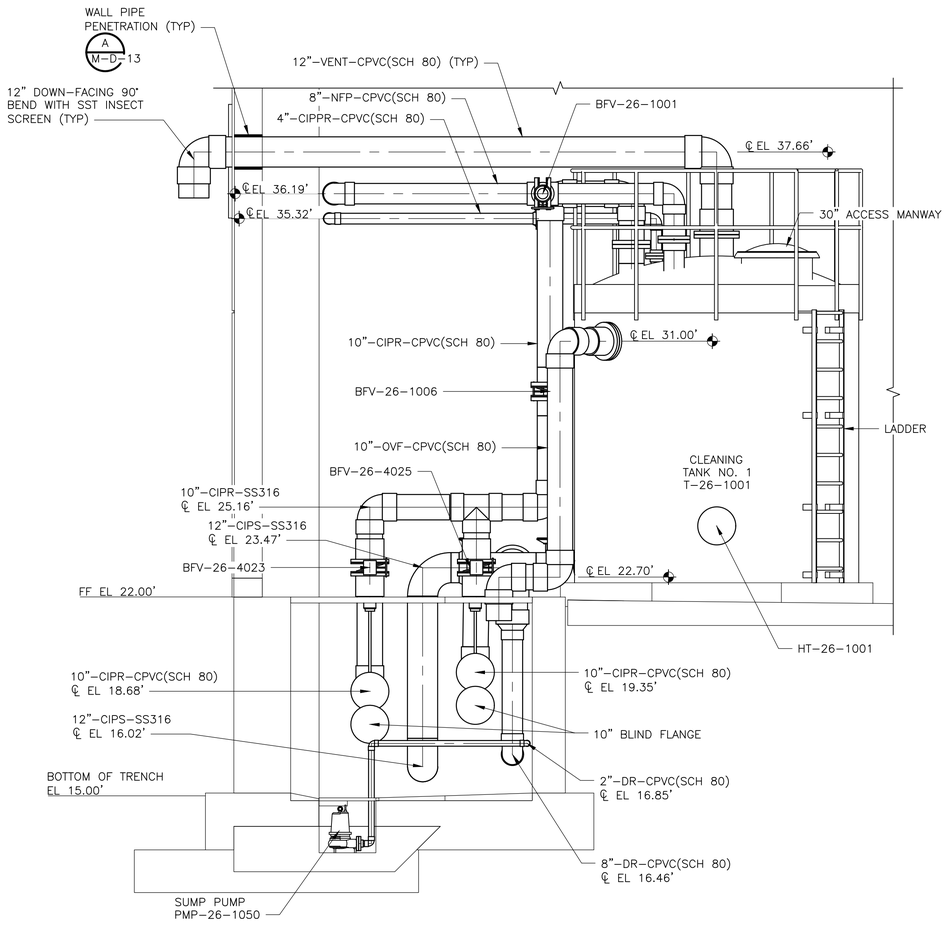
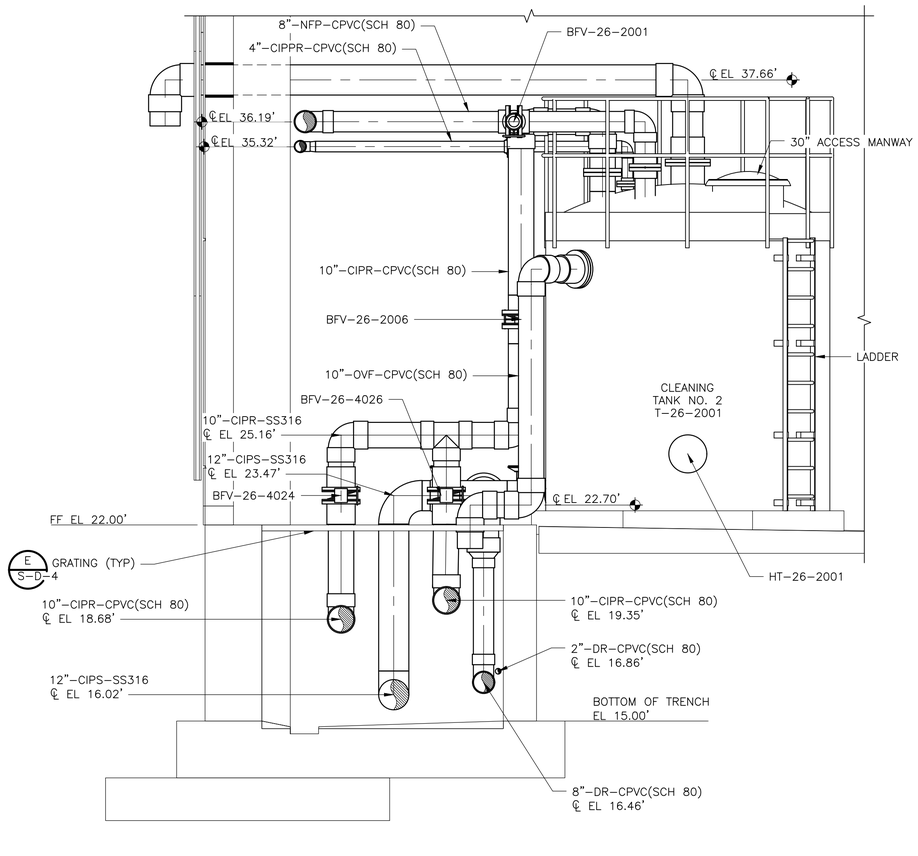


SECTION 3 (M-NF-14)
3/8" = 1'-0"



SECTION 4 (M-NF-14)
3/8" = 1'-0"

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DATE: AUGUST 2025

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Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
CLEAN IN PLACE AREA
SECTIONS II

PROJECT NO. 159676-291242
FILE NAME: M-NF-16.dwg

SHEET NO.
M-NF-16

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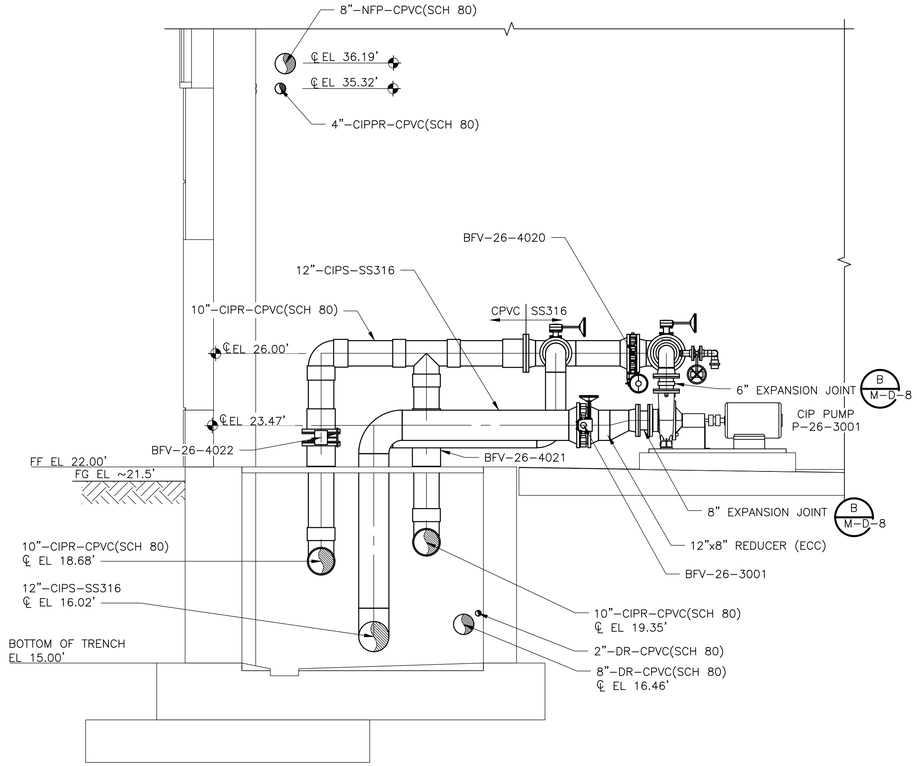
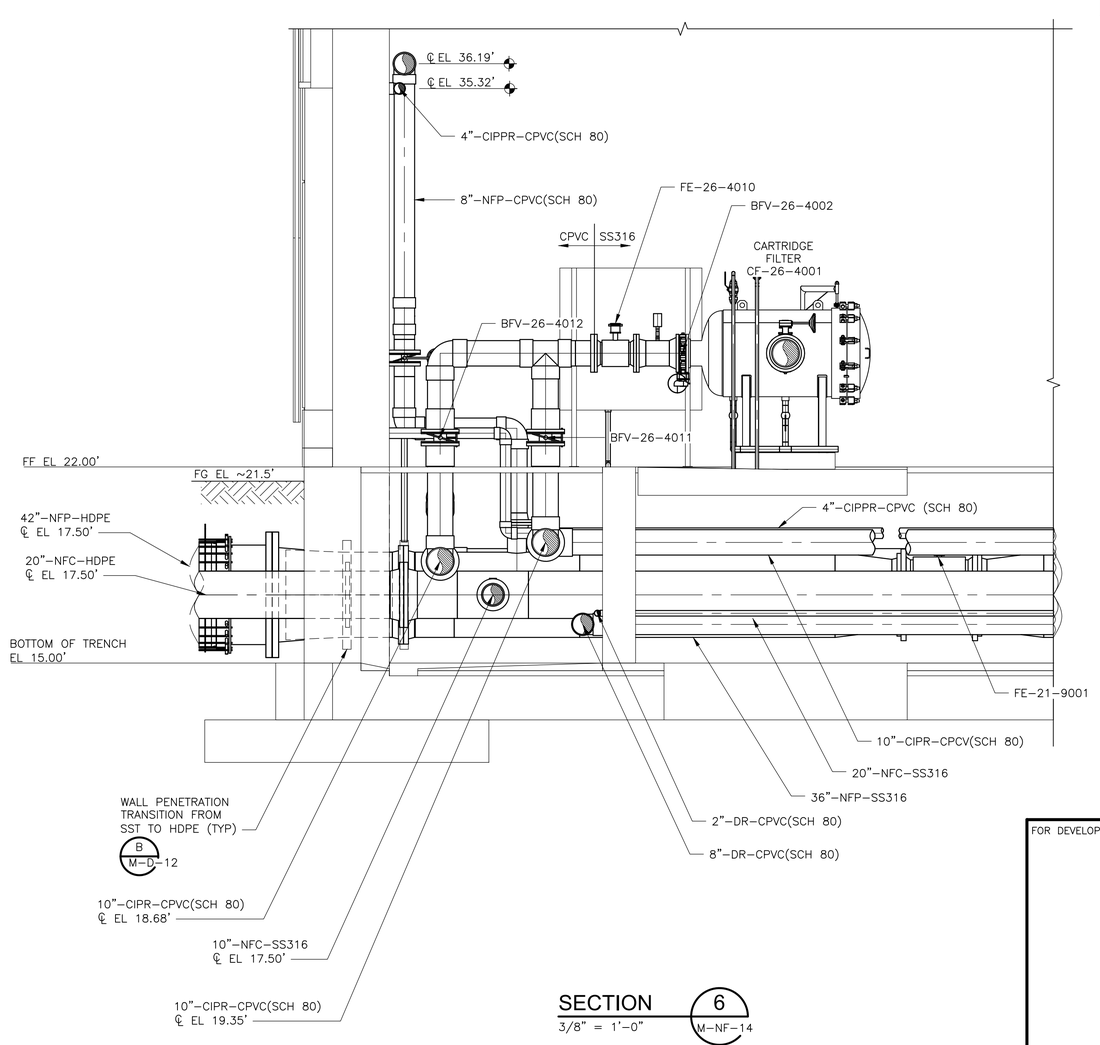


SECTION 5 (M–NF–14)
3/8" = 1'–0"



SECTION 6 (M–NF–14)
3/8" = 1'–0"

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CROSS CHK'D BY: F. BRINSON
APPROVED BY: J. BENJAMIN
DATE: AUGUST 2025

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Boca Raton, FL 33487
Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
CLEAN IN PLACE AREA
SECTIONS III

PROJECT NO. 159676–291242
FILE NAME: M–NF–17.dwg

SHEET NO.
M-NF-17

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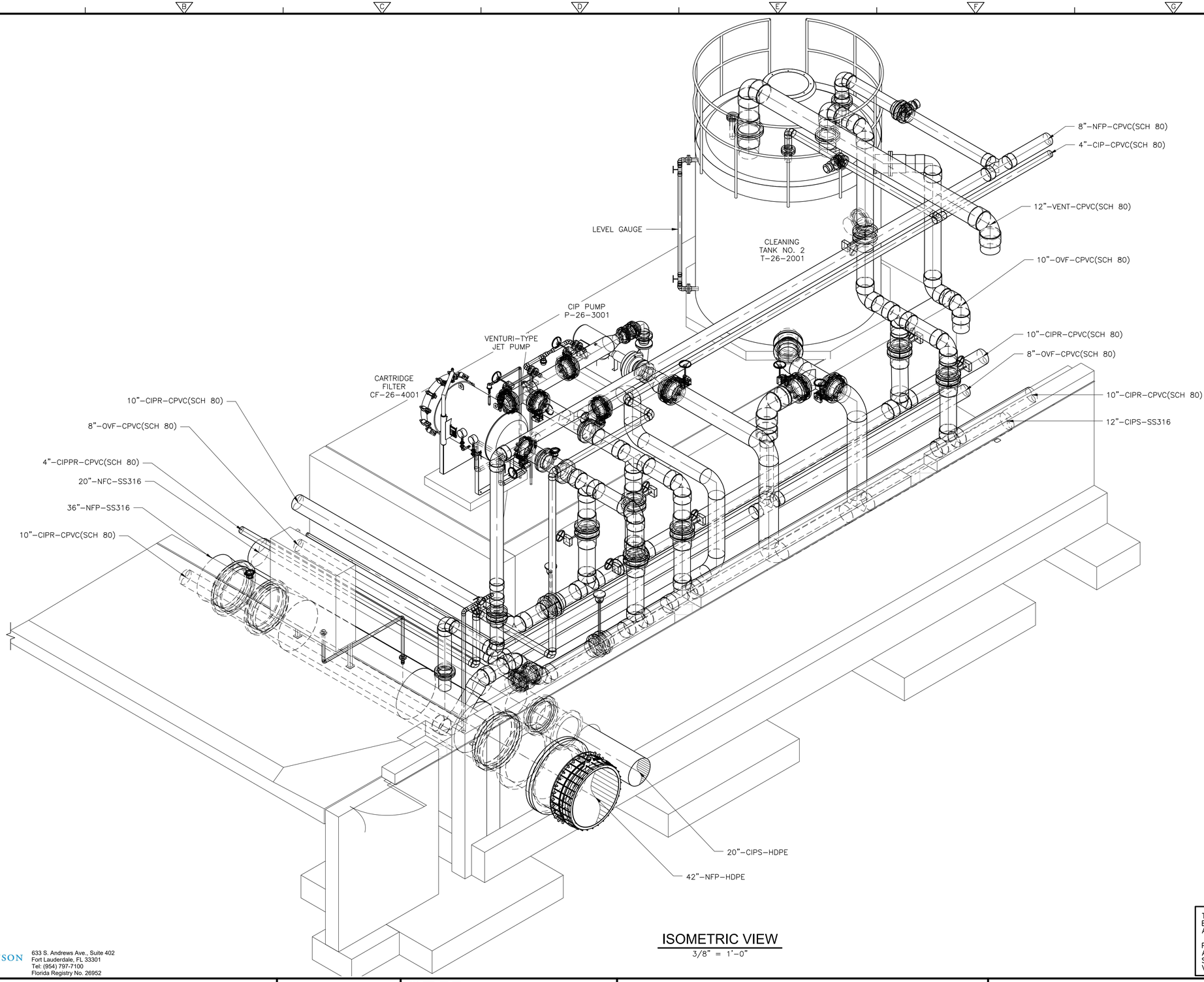
FOR BUILDING DEPARTMENT USE



ISOMETRIC VIEW
3/8" = 1'–0"

FOR DEVELOPMENT SERVICES USE

JOSHUA A. BENJAMIN LICENSE NO. 100436 STATE OF FLORIDA PROFESSIONAL ENGINEER

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APPROVED BY: J. BENJAMIN
DATE: AUGUST 2025

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CITY OF DELRAY BEACH

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

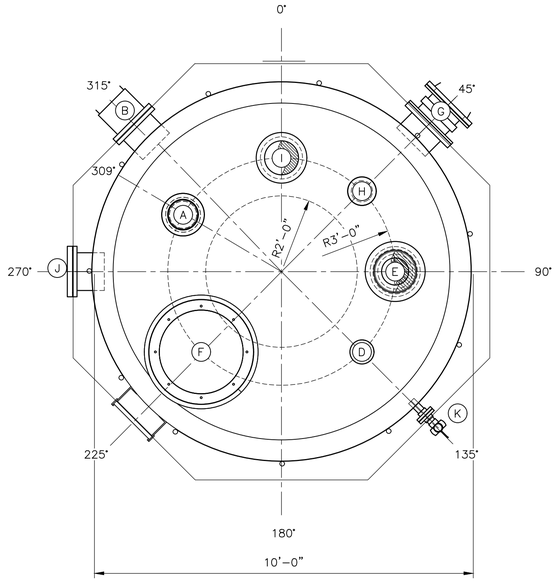
NF MEMBRANE BUILDING
CLEAN IN PLACE AREA
PARTIAL ISOMETRIC VIEW

PROJECT NO. 159676–291242
FILE NAME: M–NF–18.dwg

SHEET NO.
M-NF-18

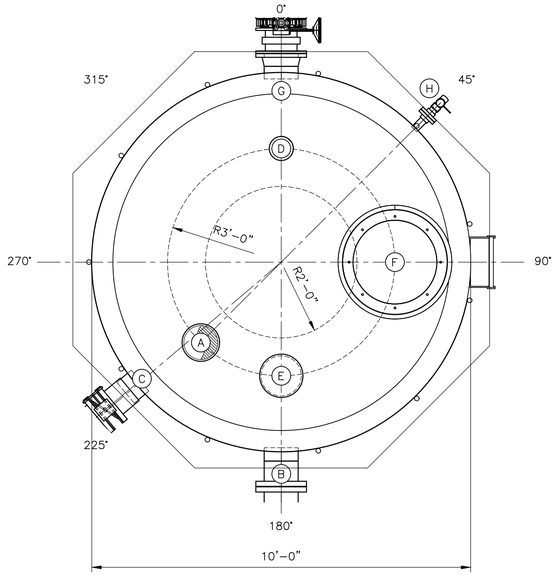
ISSUED FOR PERMITTING

CLEAN IN PLACE TANK
T–26–1001 & T–26–2001



CLEANING TANKS					
LOCATION	SERVICE	SIZE (INCHES)	DESCRIPTION	HEIGHT FROM BASE OF TANK TO CENTERLINE	ORIENTATION (DEGREES)
A	TANK FILL**	8	150# FLANGE	N/A	309
B	OVERFLOW	10	150# FLANGE	8' - 6"	315
C	DRAIN	8	150# FLANGE	-	-
D	LEVEL SENSOR	3*	150# FLANGE	N/A	135
E	TANK VENT	12	150# FLANGE	N/A	90
F	MANWAY	30	150# FLANGE	N/A	225
G	FULL-DRAIN OUTLET TO CIP PUMP WITH EXPANSION JOINT	12	150# FLANGE	FLUSH WITH BASE	180
H	PERMEATE RETURN**	4	150# FLANGE	N/A	45
I	CIP RETURN**	10	150# FLANGE	N/A	120
J	IMMERSION HEATER	10	150# FLANGE	2' - 0"	270
K	TANK LEVEL SITE TUBE	1	150# FLANGE	0' - 3"; 8' - 9"	135
* COORDINATE WITH SENSOR MFR REQUIREMENTS.					
** NOZZLES FOR FILL/RETURN CONNECTIONS ENTERING THE TOP OF THE TANKS SHALL BE FURNISHED WITH INTERNAL DROP PIPES EXTENDING TO 4' FROM FLOOR OF TANK.					

FLUSHING TANK
T–28–1001



FLUSHING TANK					
LOCATION	SERVICE	SIZE (INCHES)	DESCRIPTION	HEIGHT FROM BASE OF TANK TO CENTERLINE	ORIENTATION (DEGREES)
A	TANK FILL**	10	150# FLANGE	N/A	225
B	OVERFLOW	10	150# FLANGE	8' - 6"	180
C	DRAIN	8	150# FLANGE	FLUSH WITH BASE	230
D	LEVEL SENSOR	3*	150# FLANGE	N/A	0
E	TANK VENT	12	150# FLANGE	N/A	180
F	MANWAY	30	150# FLANGE	N/A	90
G	FULL-DRAIN OUTLET TO CIP PUMP WITH EXPANSION JOINT	10	150# FLANGE	FLUSH WITH BASE	0
H	TANK LEVEL SITE TUBE	1	150# FLANGE	0' - 3"; 8' - 9"	45
* COORDINATE WITH SENSOR MFR REQUIREMENTS.					
** NOZZLES FOR FILL/RETURN CONNECTIONS ENTERING THE TOP OF THE TANKS SHALL BE FURNISHED WITH INTERNAL DROP PIPES EXTENDING TO 2' FROM FLOOR OF TANK.					

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APPROVED BY: J. BENJAMIN
DATE: AUGUST 2025

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Tel: (561) 571-3800

DELRAY BEACH, FLORIDA

DELRAY BEACH
MEMBRANE WATER TREATMENT PLANT

NF MEMBRANE BUILDING
CLEANING & FLUSHING TANK
NOZZLE SCHEDULES

PROJECT NO. 159676–291242
FILE NAME: M–NF–22.dwg

SHEET NO.
M-NF-22

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