

IRRIGATION DESIGN DEVELOPMENT LEGEND				
SYMBOL	DESCRIPTION	QTY	PRECIP	PSI
	1 - SPRAY IRRIGATION ZONE - HIGH WATER USE - AREA 1 TURF ZONES - RAIN BIRD 1804-SAM-PRS - 4" POP-UP BODIES W/ MPR SPRAY NOZZLES	5,228 S.F.	1.74 in/h	30
	2 - SPRAY IRRIGATION ZONE - MEDIUM WATER USE - AREA 2 SHRUB ZONE - RAIN BIRD 1812-SAM-PRS - 12" POP-UP BODIES W/ MPR SPRAY NOZZLES	11,387 S.F.	1.74 in/h	30
	3 - DRIP IRRIGATION ZONE - MEDIUM WATER USE - AREA 3 SHRUB ZONE - NETAFIM SUBSURFACE DRIP 1.16 GPH 12X12 SPACING	1,976 S.F.	1.86 in/h	30
	4 - BUBBLER IRRIGATION ZONE - MIXED WATER USE - AREA 4 TREE & PALM ZONE - HUNTER PRESSURE COMPENSATING BUBBLER - 6" POP-UP BODIES W/ FLOOD BUBBLER TYPE NOZZLE	5,168 S.F.	2 in/h	20
	5 - POOL & SPA - HIGH WATER USE - AREA 5 POOL & SPA W/ COVER	3,510 S.F.	1 in/h	30

NOT FOR CONSTRUCTION

ALWAYS CALL 811 TWO FULL BUSSINESS DAYS
BEFORE YOUR DIG

It's the Law !

SUNSHINE811.COM

IRRIGATING AROUND EXISTING TREES:
ANY IRRIGATION (MAINLINE OR LATERALS) WITHIN DRIP
LINES OF EXISTING TREES SHALL BE FIELD APPROVED BY
CONSULTING ARBORIST AND OR LANDSCAPE ARCHITECT
PRIOR TO ANY TRENCHING WORK COMMENCES. HAND
TRENCH AND OR FOLLOW ALL ARBORISTS/LANDSCAPE
ARCHITECTS RECOMMENDATIONS.
DO NOT STACK OR STORE ANY MATERIALS, EQUIPMENT OR
MACHINERY UNDER DRIP LINE OF EXISTING TREES.

IRRIGATION INT F NNE TION:
E 1 WATER METER 1 A KFL W E E THI LAN ET.

N.T.E. INSTALL VALVE AND IRRIGATION LINE IN LANTEN WHENEVER

LANDSCAPE ARCHITECT

junglesVFD

OPTIMUS

DESIGNER

ARCHITECT OF RECORD

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

MEP ENGINEER

CIVIL ENGINEER

LOW VOLTAGE DESIGN

GGB Engineering, Inc.

DESIGNER

SAOTA

STEFAN ANTONI OLMSDAHL TRUEN

ARCHITECT OF RECORD

DESIGNER

LANDSCAPE ARCHITECT

STRUCTURAL ENGINEER

MEP ENGINEER

CIVIL ENGINEER

LOW VOLTAGE DESIGN

GGB Engineering, Inc.

ALL RIGHTS RESERVED. THESE DRAWINGS AND SPECIFICATIONS ARE WORKPRODUCTS OF SERVICE
AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. NO PART OF THIS PROJECT OR ANY PART
HEREOF MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR
MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND
RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. REPRODUCTION OF SPECIFICATIONS
WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT IS PROHIBITED.

4570/4580 NORTH BAY RD, MIAMI BEACH, FL 33140

CLIENT: (NAME WITHHELD) 305.905.7477
ARCHITECT OF RECORD: DVICE INC. 305.766.5004
LANDSCAPE ARCHITECT: VINCENT FLORENZO DES. 305.766.5004
STRUCTURAL ENGINEER: OPTIMUS ENGINEERING 305.515.5800
MEP ENGINEER: J.M. ENGINEERING 561.277.5223
CIVIL ENGINEER: GGB ENGINEERING 954.988.9899
LOW VOLTAGE DESIGN: 305.500.5000

SEALING ARCHITECT: DANIEL RITCHIE AR95253

SEAL

REVISED 2021.12.29

ISSUED 2021.12.13

SCALE 3/32" = 1'-0"

DESIGNATION
LI-1.0 MAIN LEVEL IRRIGATION PLAN



IRRIGATION DESIGN DEVELOPMENT LEGEND				
SYMBOL	DESCRIPTION	QTY	PRECIP	PSI
	1 - SPRAY IRRIGATION ZONE - HIGH WATER USE - AREA 1 TURF ZONES - RAIN BIRD 1804-SAM-PRS - 4" POP-UP BODIES W/ MPR SPRAY NOZZLES	5,228 S.F.	1.74 in/h	30
	2 - SPRAY IRRIGATION ZONE - MEDIUM WATER USE - AREA 2 SHRUB ZONE - RAIN BIRD 1812-SAM-PRS - 12" POP-UP BODIES W/ MPR SPRAY NOZZLES	11,387 S.F.	1.74 in/h	30
	3 - DRIP IRRIGATION ZONE - MEDIUM WATER USE - AREA 3 SHRUB ZONE - NETAFIM SUBSURFACE DRIP 1.16 GPH 12X12 SPACING	1,976 S.F.	1.86 in/h	30
	4 - BUBBLER IRRIGATION ZONE - MIXED WATER USE - AREA 4 TREE & PALM ZONE - HUNTER PRESSURE COMPENSATING BUBBLER - 6" POP-UP BODIES W/ FLOOD BUBBLER TYPE NOZZLE	5,168 S.F.	2 in/h	20
	5 - POOL & SPA - HIGH WATER USE - AREA 5 POOL & SPA W/ COVER	3,510 S.F.	1 in/h	30

NOT FOR CONSTRUCTION

ALWAYS CALL 811 TWO FULL BUSSINESS DAYS
BEFORE YOUR DIG

It's the Law !



SUNSHINE811.COM

LANDSCAPE ARCHITECT

junglesVFD

STUDIO

OPTIMUS

DESIGNER

NO. 10000

ENGINEERING

CIVIL ENGINEER

GGB Engineering, Inc.

DESIGNER

SAOTA

STEFAN ANTONI OLMSDAHL TRUEN

ARCHITECT OF RECORD

DIVICE

DESIGN STUDIO

610 733 4288 MADE @ DIVICEINC.COM

COPYRIGHT 2021

ALL RIGHTS RESERVED. THESE DRAWINGS AND SPECIFICATIONS ARE WORKPRODUCTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. NO PART OF THIS PROJECT OR ANY PART OF ANY PROJECTS OR ENTERPRISES TO THIS PROJECT CANNOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. REPRODUCTION OF SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT IS PROHIBITED.

4570/4580 NORTH BAY RD, MIAMI BEACH, FL 33140

CLIENT: (NAME WITHHELD) 305.905.7447
ARCHITECT OF RECORD: DIVICE INC. 305.766.5004
LANDSCAPE ARCHITECT: VINCENT FUGERON DES. 305.766.5004
STRUCTURAL ENGINEER: OPTIMUS ENGINEERING 305.515.5800
MEP ENGINEER: J.M. ENGINEERING 561.277.5623
CIVIL ENGINEER: GGB ENGINEERING 954.988.9889
LAW FIRM: T&L DESIGN 305.500.5000

SEALING ARCHITECT: DANIEL RITCHIE AR95253

SEAL

REVISED 2021 12 29



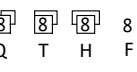

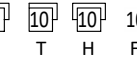

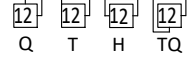

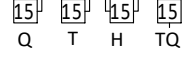

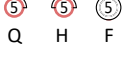


















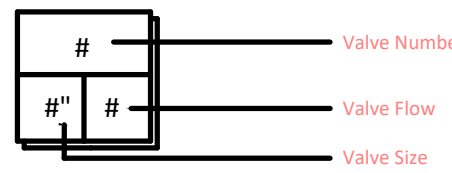

ISSUED 2021 12 13

SCALE 3/32" = 1'-0"

DESIGNATION

LI-2.0 2ND LEVEL IRRIGATION PLAN

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD 1804-SAM-PRS 5 SERIES MPR TURF SPRAY 4.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30		RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.
	RAIN BIRD 1804-SAM-PRS 8 SERIES MPR TURF SPRAY 4.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30		RAIN BIRD 44-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.
	RAIN BIRD 1804-SAM-PRS 10 SERIES MPR TURF SPRAY 4.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30		MATCO-NORCA 759 BRASS SHUT OFF BALL VALVE, 1/2" TO 4". TWO PIECE BODY, BLOW-OUT PROOF STEM, CHROME PLATED SOLID BRASS BALL, THREADED, WITH PTFE SEATS. SAME SIZE AS MAINLINE PIPE.
	RAIN BIRD 1804-SAM-PRS 12 SERIES MPR TURF SPRAY 4.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30		BUCKNER-SUPERIOR 3300 1-1/2" NORMALLY OPEN BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION AND NO MINIMUM FLOW FEATURE, WHICH ENSURES RELIABLE OPENING AND CLOSING OF THE VALVE IN EXTREME HIGH OR LOW FLOW SCENARIOS. AVAILABLE IN 1-1/2", 2", 2-1/2" AND 3".
	RAIN BIRD 1804-SAM-PRS 15 SERIES MPR TURF SPRAY 4.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30		MATCO-NORCA 523T 1/2"-2" WHITE PVC INLINE CHECK VALVE THREADED ENDS. STAINLESS STEEL SPRING LOADED. SAME SIZE AS LATERAL PIPE. INSTALLED IN A 10" ROUND VALVE BOX.
	RAIN BIRD 1812-SAM-PRS 5 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	30		NETAFIM 65ARB1-150 1" COMBINATION AIR VENT. MALE PIPE THREAD. CONTINUOUS ACTING, MAXIMUM OPERATING PRESSURE 150 PSI. PERFORMS BOTH FUNCTIONS AS AN AIR/VACUUM RELIEF VENT AND AUTOMATIC AIR RELEASE VENT.
	RAIN BIRD 1812-SAM-PRS 8 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	30		FEBCO 825YA 1" REDUCED PRESSURE BACKFLOW PREVENTER
	RAIN BIRD 1812-SAM-PRS 10 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	30		RAIN BIRD ESP12LXMEF-LXMMSS W/ (2) ESP12LXMEF 12-STATION, 36 STATION, TRADITIONALLY-WIRED , FLOW SMART, COMMERCIAL CONTROLLER. (1) ESP12LXMEF 12-STATION, FLOW SMART, (MODULE INCLUDED) INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE W/ (2) ESP12LXMEF 12- STATION EXPANSION MODULES. INSTALL IN LXMMSS STAINLESS STEEL, WALL-MOUNTED CABINET.
	RAIN BIRD 1812-SAM-PRS 12 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	30		RAIN BIRD WR2-RFS WIRELESS RAIN/FREEZE SENSOR.
	RAIN BIRD 1812-SAM-PRS 15 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	30		CREATIVE SENSOR TECHNOLOGY FSI-T10-001 1" (25MM) PVC TEE TYPE FLOW SENSOR W/SOCKET ENDS, CUSTOM MOUNTING TEE AND ULTRA-LIGHTWEIGHT IMPELLER ENHANCES LOW FLOW MEASUREMENT. 2 WIRE DIGITAL OUTPUT COMPATIBLE W/ALL IRRIGATION CONTROLLERS. FLOW RANGE: .86-52 GPM.
	HUNTER PCB FLOOD BUBBLER, 1/2" FIPT.	20		WATER METER 1" CONTRACTOR TO CONFIRM PRESSURE & FLOW (PSI & GPM)
	TORO DZK-700 LOW FLOW DRIP CONTROL VALVE KIT. WITH 1" IRITROL 700 ULTRAFLOW INLINE VALVE, TORO Y-FILTER, PRESSURE REGULATOR AND FITTINGS. 0.10GPM-30GPM. REGULATED PRESSURE AT 40PSI			IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 INSTALL ALL LATERAL LINES TO A DEPTH OF 12" BELOW FINISH GRADE. BACKFILL WITH CLEAN FILL, NO ROCKS OVER 1/2" IN SIZE.
	PIPE TRANSITION POINT PVC-PLY PIPE TRANSITION POINT.			IRRIGATION MAINLINE: PVC SCHEDULE 40 INSTALL ALL MAINLINE TO A DEPTH OF 18" UNLESS OTHERWISE NOTED. BACKFILL WITH CLEAN FILL, NO ROCKS OVER 1/2" IN SIZE. NOTE ALL MAINLINE LOCATION ON AS-BUILT PLANS.
	NETAFIM TL50V NETAFIM TL50V- 1/2" MANUAL FLUSH VALVE, BARBED INSERT. INSTALL IN 10" BOX, WITH ADEQUATE BLANK OR "COBRA" TUBING TO EXTEND VALVE OUT OF VALVE BOX. 17MM FITS TECHLINE HCVXR, HCVXR-RW/RWP, CV, DL, RW AND RWP DRIPLINES, AND PE IRRIGATION HOSE			PIPE SLEEVE: PVC SCHEDULE 40 INSTALL SLEEVE 12" PAST EDGE OF HARDSCAPE TO A DEPTH OF 24" FOR MAINLINE AND 18" FOR LATERAL LINES. ALL OTHER SLEEVING INSTALL TO A DEPTH OF 12".
	RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISES 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED. INSTALL MINIMUM TWO PER DRIP ZONE, PLACE NEXT TO FLUSH VALVE.			Valve Detail # - Valve Number # - Valve Flow # - Valve Size
	AREA TO RECEIVE DRIPLINE NETAFIM TLHCVXR-CS-116-12 TECHLINE HCVXR-CS PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH COPPER STRIPE, CHECK VALVE AND ANTI-SIPHON FEATURE. 1.16 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.			

NOTE: PRELIMINARY MAX GPM & PRESSURE NEEDED:

IRRIGATION DESIGN IS BASED ON A MAXIMUM DEMAND OF 30.00 GPM WITH A MINIMUM
OPERATING PRESSURE OF 65 PSI. LANDSCAPE CONTRACTOR SHALL TEST AND VERIFY
PRESSURE AND FLOW PRIOR TO STARTING JOBS AND NOTIFY LANDSCAPE ARCHITECT
IMMEDIATELY IF WATER AND PRESSURE FLOWS DO NOT MEET THESE MINIMUM
REQUIREMENTS.

IRRIGATION PLAN IS DIAGRAMMATIC; INSTALL VALVES AND IRRIGATION LINES IN
PLANTERS WHENEVER POSSIBLE.

NOT FOR CONSTRUCTION

ALWAYS CALL 811 TWO FULL BUSSINESS DAYS
BEFORE YOUR DIG

It's the Law !



SUNSHINE811.COM

LANDSCAPE ARCHITECT junglesVFD ARCHITECT OPTIMUS DESIGNER GGB Engineering, Inc.	DESIGNER SAOTA STEFAN ANTONI OLMSDAHL TRUEN ARCHITECT OF RECORD D\ V C E DESIGN STUDIO 810 733 4288 MADE @ DVICEINC.COM COPYRIGHT 2021	ALL RIGHTS RESERVED. THESE DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. NO PART OF THIS PROJECT OR ANY PART HEREOF SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. REPRODUCTION OF SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT IS PROHIBITED. 4570/4580 NORTH BAY RD, MIAMI BEACH, FL 33140 CLIENT: NAME WITHHELD 305.965.7447 ARCHITECT OF RECORD: DVICE INC. 305.965.7447 LANDSCAPE ARCHITECT: VINCENT FLURENDO DES. 305.766.5004 STRUCTURAL ENGINEER: OPTIMUS ENGINEERING 305.515.5860 MEP ENGINEER: J.M. ENGINEERING 561.271.5223 CIVIL ENGINEER: GGB ENGINEERING 855.986.9899 LOW-VOLTAGE DESIGN: 305.500.5000 SEALING ARCHITECT: DANIEL RITCHE AR95253 SEAL	REVISED 2021.12.29 ISSUED 2021.12.13 SCALE DESIGNATION LI-3.0. IRRIGATION LEGEND
---	---	---	---

