NOTES:
1. 2 x 2 nominal hardwood stakes, 4 foot minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 12 inches away from the drop inlet.
2. Area inside the fence, from edge of fabric to structure, must be stabilized with Erosion Control Blanket, Turf Reinforcement Mat, Geotextile 592 Table 2 Class 2 or CA-7 stone
3. Maximum height of the fabric above the crest of the drop inlet shall be 30". Place the bottom 6 inches of the fabric in a trench and backfill with 6 inches of 95% compacted soil.
4. Stakes must be a maximum of 4 feet apart.
5. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the monofilament fabric.
6. Monofilament fabric shall meet the requirement of Material Specification 592 Geotextile Table 1, Class 4.
7. Monofilament fabric shall be secured to each 2" x 2" nominal hardwood stake with a minimum of 4 steel staple fasteners and wood lath. Wood lath shall be a minimum length of 10 inches. Wire fasteners should be used if metal T-Posts are installed in place of hardwood stakes.
1. **THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND UNTREATED SEWAGE, FROM ENTERING THE SANITARY SEWER SYSTEM**. This includes preventing any contaminated water from reaching the sewer system, especially during construction activities.

2. **THE VILLAGE OF HOFFMAN ESTATES ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION ON MAINS FOR FUTURE USE**. This notification is crucial to ensure that the proper agencies are informed and can take necessary precautions.

3. **DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF CLEANSING TRENCHES IS PROHIBITED**. This prohibition is to prevent the introduction of contaminants into the sewer system, which can affect the functionality of the system.

4. **ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IN A COMBINED SEWER AREA**. This includes adhering to specific guidelines for construction in areas where both sanitary and stormwater systems share the same infrastructure.

5. **INSPECTION AGENCIES**. This refers to regulatory bodies that oversee the construction and maintenance of sewers, ensuring that the construction adheres to the specified standards and regulations.

6. **THE CONTRACTOR SHALL NOT USE ANY MORTAR WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES**. Mortar washouts are designated for specific industrial uses, and their use in residential construction is prohibited.

7. **ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS) IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING**: This section outlines specific requirements for materials and joints used in sewer construction, ensuring durability and proper function.

8. **CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL**. This manual provides guidelines for the construction of washout facilities, ensuring they are effective in removing contaminants.

9. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES**. This highlights the contractor's responsibility for addressing water management during construction to prevent water-related issues.

10. **EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL MEASURES**. This is crucial for preventing soil erosion during construction activities.

11. **SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS**. This ensures that soil erosion is minimized during the construction process.

12. **CONDUCT DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE SITE AT LEAST 7 CALENDAR DAYS**. This requirement ensures continuous oversight to maintain quality and adherence to standards.

13. **THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM AND ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED CONTROL FACILITIES**. This section allows for flexibility in implementation, allowing for innovative solutions as long as they meet the standards.

14. **SHOULDS BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION AREA**. This ensures safety and minimizes disturbance to the surrounding environment.

15. **ALL DEWATERING FACILITIES ARE TO BE CAPPED AND MAINTAINED TO PREVENT UNAUTHORIZED USE**. This is to ensure the facilities are not misused.

16. **ALL REPAIRS OR REPAIRS TO THE EXISTING SANITARY SEWER SYSTEM**. This indicates the need for maintaining the existing system in good condition.

17. **ALL REPAIRS OR REPAIRS TO THE EXISTING STORM SEWER SYSTEM**. Similar to the sanitary sewer section, this highlights the importance of maintaining stormwater systems.

18. **ALL REPAIRS OR REPAIRS TO THE EXISTING WATER MAIN**. This section ensures the maintenance of water supply lines.

19. **SHOULD BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION AREA**. This ensures safety and minimizes disturbance to the surrounding environment.

20. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES**. This highlights the contractor's responsibility for addressing water management during construction to prevent water-related issues.

21. **INSPECTION AGENCIES**. This refers to regulatory bodies that oversee the construction and maintenance of sewers, ensuring that the construction adheres to the specified standards and regulations.

22. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES**. This highlights the contractor's responsibility for addressing water management during construction to prevent water-related issues.

23. **ALL REPAIRS OR REPAIRS TO THE EXISTING SANITARY SEWER SYSTEM**. This indicates the need for maintaining the existing system in good condition.

24. **ALL DEWATERING FACILITIES ARE TO BE CAPPED AND MAINTAINED TO PREVENT UNAUTHORIZED USE**. This is to ensure the facilities are not misused.

25. **SHOULD BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION AREA**. This ensures safety and minimizes disturbance to the surrounding environment.
## MECHANICAL VENTILATION SCHEDULE

<table>
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<th>ROOM NUMBER</th>
<th>ROOM NAME</th>
<th>OCCUPANCY GROUP</th>
<th>EFFECTIVE AREA ALIGNED TO</th>
<th>DESCRIPTION</th>
<th>INSTALLATION</th>
<th>FUNCTION</th>
<th>SUPPLY</th>
<th>DEMAND</th>
<th>RESIDUAL</th>
<th>DISTRIBUTION</th>
<th>PRESSURE DROP</th>
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<th>MW</th>
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## Exhaust Fan Schedule

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## Louver Schedule

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</tr>
</tbody>
</table>

## Mechanical Specifications

1. All construction shall be performed in accordance with the applicable provisions of the International Mechanical Code, Illinois Building Code, and any other applicable codes and standards.
2. All materials shall be installed in accordance with the manufacturer's published installation instructions.
3. All systems shall be tested in accordance with the manufacturer's published test instructions.
4. All systems shall be operated in accordance with the manufacturer's published operating instructions.
5. All systems shall be maintained in accordance with the manufacturer's published maintenance instructions.
6. All systems shall be inspected in accordance with the manufacturer's published inspection instructions.

## Mechanical General Notes

- All mechanical, electrical, and structural work shall be performed in accordance with the applicable codes and standards.
- All materials shall be installed in accordance with the manufacturer's published installation instructions.
- All systems shall be tested in accordance with the manufacturer's published test instructions.
- All systems shall be operated in accordance with the manufacturer's published operating instructions.
- All systems shall be maintained in accordance with the manufacturer's published maintenance instructions.
- All systems shall be inspected in accordance with the manufacturer's published inspection instructions.
DETAIL - ELECTRIC WATER HEATER MOUNTED ON SHELF

PIPET DIAGRAM

PLUMBING PLAN

WASTE AND VENT DIAGRAM

SUBGROUND PLUMBING

SOUTH RIDGE COMMUNITY PARK ENHANCEMENT PLAN 2019
HOFFMAN ESTATES, IL 60192
MARK O. VENTRELLI
STATE OF ILLINOIS
REGISTERED PROFESSIONAL ENGINEER

8/23/19 VILLAGE FOR BID
9/17/19 MWRD
10/22/19 MWRD
11/25/19 VILLAGE
1/2/20 MWRD
1/17/20 SWCD
2/21/20
**Architectural, Civil, Plumbing & Electrical Sections.**

**Spray Zone Installation**

2. **RECOMMENDED SLOPE:** 2% TOWARDS DRAIN.
3. **COORDINATE THESE DRAWINGS WITH EXTERIOR / INTERIOR SLAB ON GRADE**

**Electrical Layout**

6. **FINISHING WILL BE MEDIUM BROOM.**

**Plumbing Layout**

6. **EXTERIOR / INTERIOR SLAB ON GRADE**

**American Concrete Institute (ACI) Recommendations for Construction**

- **REBAR 15M (#4) AND UNDER = 50mm (2") COVER**
- **MINERAL, INERT AND NON-REACTIVE FILL.**
- **TOTAL FLOW :**
- **TOTAL AREA : 3363.91 ft² 311.41 m²**
- **SPRAY AREA : 2020.91 ft² 187.5 m²**
- **SPRAY AREA : 149.5 Gpm**
- **TOTAL FLOW :**
- **TOTAL AREA : 3363.91 ft² 311.41 m²**
- **SPRAY AREA : 2020.91 ft² 187.5 m²**
- **SPRAY AREA : 149.5 Gpm**

**Project Name:** Hoffman Estates, IL

**Project Location:** Carrollton, Texas

**Date:** 5/27/18

**Sheet:** A-001

**Spray Zone Layout**
ANCHOR PLAN

1. REFER TO SPECIFICATIONS ON A-001
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

South Ridge Splashpad

Cover by

Issued for Bid

Re-issued for Bid

Date/Revision

DESIGN DRAWING

By/Par

ANCHOR PLAN

01

R:\\2020\\Anchor Plan\\Anchor Plan 7/32"'-1

18/February/2020

A-002

ANCHOR PLAN

02

REFERENCE PRODUCTS & QUANTITY

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SAFESWAP® ANCHORING SYSTEM
TO BE INSTALLED LEVEL, PLUMB & FLUSH TO FINISHED SURFACES OR DETAILS PER LOCAL CODES, REQUIREMENTS & SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER: PLEASE REFER TO MAINTENANCE MANUAL FOR INSTRUCTIONS ON INSTALLATION TEMPLATE (TOOL KIT #55002.1166)

1. SAFESWAP ANCHORING DETAIL.

2. SAFESWAP ANCHORING DETAIL.

3. Spray Loop

4. S-001

5. Ground Feature Anchor (3/4" Inlet)

6. SAFESWAP ANCHORING DETAIL.

NOTE: INSTALLATION CONSTRUCTION MAY REFER TO SERVICE PROVIDER CODES FROM THE EQUIPMENT MANUFACTURER. PLEASE REFER TO MAINTENANCE MANUAL FOR INSTRUCTIONS ON INSTALLATION TEMPLATE (TOOL KIT #55002.1166)

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4. S-001

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Playsafe Drain No1

VOR-1001.4000

 Playsafe Drain No1
VOR-1001.4000

South Ridge Splashpad

VORTEX USA Inc.
1420 Valwood Parkway Suite 205
Carrollton, Texas
United States 75006
Toll Free: +1 (877) 586-7839
Phone: +1 (972) 410-3619

CONCRETE SURFACE - VERIFY LOCAL CODES FOR TYPE, THICKNESS & REINFORCEMENT REQUIREMENTS FOR INSTALLER.

ANCHORING SYSTEM TO BE INSTALLED LEVEL, PLUMB & FLUSH TO FINISHED GRADE (BY INSTALLER)

4.5" [114mm] D.50# H.S. ANCHOR LAVRICH CONTROL ANCHOR STUDS WITH HARDWARE (BY VORTEX)

DRILL & EPOXY GROUT STUDS (DONE BY INSTALLER)

3" x 30" x 30" [0.76 x 0.76 x 0.76m] CONCRETE LEVELING BASE (SOLD SEPARATELY)

CONCRETE SURFACE. VERIFY LOCAL CODES FOR TYPE, THICKNESS & REINFORCEMENT REQUIREMENTS (BY INSTALLER)

ANCHORING SYSTEM TO BE INSTALLED LEVEL, PLUMB & FLUSH TO FINISHED GRADE (BY INSTALLER)

3 8" [10mm] BONDING STUD CONCRETE SLAB

WATER LINE OUTLET 8" [200mm] MIN. 1% SLOPE. (LINE CONNECTION SUPPLIED BY INSTALLER)

1'-9" [53cm] MIN.

EXPANDED POLYPROPYLENE DRAIN BOX FOAM (BY VORTEX)

COMPACTED GRANULAR (SUPPLIED BY INSTALLER)

13 4" [5cm] MIN.

STRAINER BASKET (SOLD SEPARATELY)

Min 1% SLOPE

PLAN VIEW

FRONT ELEVATION VIEW

1 22/32" [19mm] CONCRETE SLAB
PLUMBING & ELECTRICAL LAYOUT

1. RecommendedSlope: 2%TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH
ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

South Ridge Splashpad

PLUMBING & ELECTRICAL LAYOUT

PE-001

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

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH
ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

WATER LINE

DRAIN LINE

ELECTRICAL LINE

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

WATER LINE

DRAIN LINE

ELECTRICAL LINE

PLUMBING & ELECTRICAL LAYOUT

PE-001

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

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH
ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

WATER LINE

DRAIN LINE

ELECTRICAL LINE

PLUMBING & ELECTRICAL LAYOUT

PE-001

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

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH
ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

WATER LINE

DRAIN LINE

ELECTRICAL LINE

PLUMBING & ELECTRICAL LAYOUT

PE-001

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

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH
ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.
1. REFER TO SPECS ON A-001
2. COORDINATE THIS DRAWING WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL.

Bonding wire
**Electrical Details**

**33907.0000 & 33907.1000 CONNECTIONS**

**NOTE:**
1. A maximum of 4 Ethernet CAT6 connections are available per Maestro.
2. Quantity of connectors may vary based on Maestro size/output control. 24 vac Max 1A supplied by Maestro.
3. For any input, 24 vac 230mA max supplied by Maestro. Refer to the corresponding schematic drawing manual for wiring details.
5. If multiple Maestro slaves are required, each unit requires an individual Ethernet cable.
6. WATER TIGHT CONNECTIONS WITH MAESTRO DONE BY INSTALLER.
7. Water reuse.
8. - AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: Controller and/or LED power panels and/or any other electrical equipment must be hard-wired to a ground fault circuit interrupter (GFCI) from the input power source. All electrical work should be performed by a licensed electrician in accordance to local electrical construction and safety codes.

---

**Maestro Controller**

16 out / 8 in

---

**Maestro Enclosure Dimensions**

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<th>Height (mm)</th>
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**South Ridge Splashpad**

Project Location:
Hoffman Estates, IL

Project Number:
24012

Order Number:

---

**VORTEX USA Inc.**

1420 Valwood Parkway Suite 205
Carrollton, Texas 75006

Toll Free: +1 (877) 586-7839
Phone: +1 (972) 410-3619

United States 75006

**Electrical Details**

---

**Order:** ED-001

---

**Sheet #1**

---

**Scale:** 1:1

---

**Sheet Date:** 18/Feb/2020

---

**Dimensions:** Refer to the piping and electrical sheet for the controller number.

---

**Note:**
1. Ensure enough clearance for the door opening.
2. Quantity of connectors may vary based on Maestro size/output control. 24 vac max 1A supplied by Maestro.
3. For any input, 24 vac 230mA max supplied by Maestro. Refer to the corresponding schematic drawing manual for wiring details.
5. If multiple Maestro slaves are required, each unit requires an individual Ethernet cable.
6. Water tight connections with Maestro done by Installer.
7. Featured (note 7) may not be distributed, copied, reproduced or otherwise used without prior written consent of Vortex Aquatic Structures International and may not be disseminated, copied, reproduced or otherwise used without prior written consent of Vortex Aquatic Structures International.
8. See Note #1

---

**South Ridge Splashpad**

---

**Project Location:**
Hoffman Estates, IL

**Project Number:**
24012

---

**Order Number:**

---

**Electrical Details**

---

**Order:** ED-001

---

**Sheet Date:** 18/Feb/2020

---

**Sheet #1**
**Feature Installation Drawing**

**South Ridge Splashpad**

**1. Aqua Dome No1**
- **VOR-0555.2XXX**
- **FT-001**

**2. Bobble No1**
- **VOR-7232.2XXX**
- **FT-001**

**3. Bollard Activator No3**
- **VOR-7241.2XXX**
- **FT-001**

**4. Hello No 5**
- **VOR-7240.2XXX**
- **FT-001**

**5. Hello No 6**
- **VOR-7241.2XXX**
- **FT-001**

**6. Snail No4**
- **VOR-7241.2XXX**
- **FT-001**

**Specifications**

**TYPICAL ANCHORING SAFESWAP Nº1.**

- FOR THIS APPLICATION 2" NPT FEMALE COUPLING OF THE SAFESWAP Nº1 WILL BE USED TO CONNECT THE ELECTRICAL CONDUIT, SUPPLIED BY INSTALLER, AND RUN THE ELECTRICAL CABLE.

**ELECTRICAL CABLE SPECIFICATION**

- M12-3PIN CONNECTOR CABLE, 22AWG, MAXIMUM O.D.: 0.25" (SUPPLIED UP TO 75M WITH ACTIVATOR BY VORTEX)

**TYPICAL ANCHORING SAFESWAP Nº2**

- FOR THIS APPLICATION 2" NPT FEMALE COUPLING OF THE SAFESWAP Nº2 WILL BE USED TO CONNECT THE ELECTRICAL CONDUIT, SUPPLIED BY INSTALLER, AND RUN THE ELECTRICAL CABLE.

**EARTH GROUND**

- INSTALLATION KIT 55000.0433
SPLASHPAD DIMENSION

TOTAL AREA : 3363 ft²  312 m²
SPRAY AREA : 2020 ft²  187 m²
GRID SIZE : 2 x 2 ft  0.6 x 0.6 m

PRODUCT LEGEND

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<td>Playsafe Drain N°3</td>
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VORTEX RECOMMENDS 5' [1.5m] SPRAY FREE CONCRETE AREA ALL AROUND THE SPLASHPAD