



CITY OF VALLEY CENTER OUTDOOR SPACES & PUBLIC PROPERTIES BOARD

AGENDA

February 8th, 2024

THE OUTDOOR SPACES & PUBLIC PROPERTIES BOARD SHALL HOLD ITS REGULAR MEETING AT CITY HALL, 6PM FEBRUARY 8TH, 2024.

1. CALL TO ORDER/ ROLL CALL:

Larry Hoetmer, Andy Quandt, Tina Payne, Jordan Wright, Johnathan Mosher, Raymond Ortega, Roger Stewart (chair)

Meeting Time: _____

2. APPROVAL OF AGENDA: Motion _____ 2nd _____

3. PUBLIC FORUM (*Citizen input and requests*)

4. OLD BUSINESS – Project Updates and Discussion:

- A. Rec & Aquatics Project; Lion's Park- Splash Pad coming March 2024
- B. 62 Acre Park (area north of Prairie Lakes)
- C. City Welcome Signs at Ford/77th and Broadway
- D. Disc Golf – McLaughlin Park
- E. Sunflower Valley Trail
- F. Street Tree Project – Meridian Avenue; Ford Street

5. NEW BUSINESS

- A. Playground Equipment/Park Amenity Survey
- B. Membership Renewal/Term Expiration 2024 Quandt, Ortega, Mosher, Wright
- C. Discussion of new board president

6. BOARD MEMBER REPORTS

Andy Quandt:

- Discussion of ordinance 1304-17 public properties and outdoor spaces board.
- McLaughlin hill, grasses trees and such. Waterfall update at McLaughlin.
- Pedestrian bridge over ditch to new 62-acre park.
- Drainage at arrowhead on sidewalk near Goff entrance.



Tina Payne

Jordan Wright

Jonathan Mosher

Raymond Ortega

Larry Hoetmer

Roger Stewart

7. STAFF REPORTS

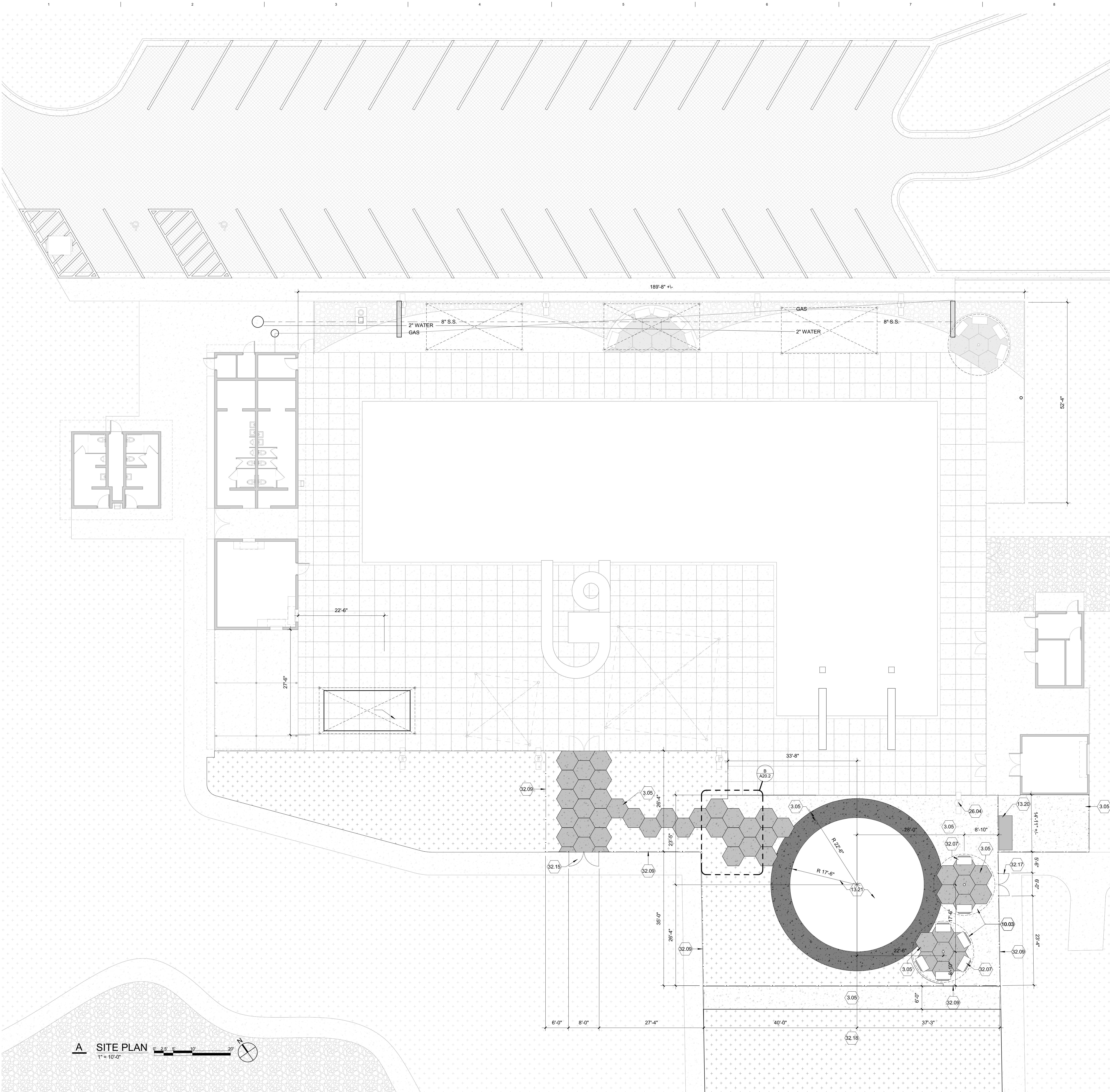
Neal Owings

8. NEXT MEETING _____ / ADJOURN/TIME _____ Motion _____ 2nd _____

All items listed on this agenda are potential action items unless otherwise noted. The agenda may be modified or changed at the meeting without prior notice.

This is an open meeting, open to the public, subject to the Kansas Open Meetings Act (KOMA). The City of Valley Center is committed to providing reasonable accommodations for persons with disabilities upon request of the individual. Individuals with disabilities requiring an accommodation to attend the meeting should contact the City Clerk in a timely manner, at cityclerk@valleycenter-ks.gov or by phone at (316)755-7310.

For additional information on any item on the agenda, please visit www.valleycenter-ks.gov or call (316) 755-7310.



10

Wichita-Sedgwick County Metropolitan Area Building and Construction Department

REVIEWED FOR CODE COMPLIANCE

RECTIONS OR COMMENTS MADE ON THESE DRAWINGS
TO THIS DOCUMENT DURING THIS REVIEW DO NOT RELIEVE
TRACTOR FROM COMPLIANCE WITH ALL REQUIREMENTS
THE CODE OF THE MABC OR THE CITY OF WICHITA OR
GWICK COUNTY. THIS REVIEW IS ONLY FOR GENERAL
FORMANCE OF THE CODE. THE CONTRACTOR IS
ONSIBLE FOR CONFORMING AND CORRELATING ALL
HNIQUES OF CONSTRUCTION. THIS APPROVAL IS
JECT TO PROVISIONS OF SECTION 107.4 OF THE 2012
RNATIONAL BUILDING CODE.

E: 08/09/23 BY: Gary Cox

MADE FOR REVIEW
STAMP

GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING SITE AND BUILDING CONDITIONS PRIOR TO BIDDING
- REFERENCE SHEET G10.1 FOR GRAPHIC SYMBOL AND DRAWING SYMBOL DEFINITIONS.
- HATCHED WALL WITH DARK (BLACK) PERIMETER LINES INDICATE NEW WALLS. EXISTING WALLS SHOWN WITH SCREENED (GRAY) LINES WITH NO FILL.
- PROVIDE 1" BULLNOSE ON ALL EXPOSED CMU CORNERS, UNLESS NOTED OTHERWISE. PROVIDE SQUARE CMU CORNERS AT TILED WALLS.
- ABBREVIATIONS:
 - FEC FIRE EXTINGUISHER AND CABINET - REF. SPEC.
 - FE FIRE EXTINGUISHER AND BRACKET - REF. SPEC.
 - NIC NOT IN CONTRACT, ITEM PROVIDED AND INSTALLED BY OWNER
 - VIF VERIFY IN FIELD ACTUAL CONDITIONS

SITE LEGEND

NEW CONCRETE

EXISTING CONCRETE TO REMAIN

EXISTING ASPHALT TO REMAIN

NEW GRASS

EXISTING GRASS TO REMAIN

NEW PLANTER BED

EXISTING PLANTER BED TO REMAIN

NEW COLORED CONCRETE

EXISTING COLORED CONCRETE TO REMAIN

KEYED NOTES

- 3.05 NEW CONCRETE - REF. SPEC.
- 10.03 SUN SHADE - REF. SPEC.
- 13.20 INSULATED HOT BOX - REF. WATERS EDGE DRAWINGS AND SPEC.
- 13.21 SPLASH PAD AND EQUIPMENT - REF. WATERS EDGE DRAWINGS AND SPEC.
- 26.04 LIGHT POLE - REF. ELEC.
- 32.07 2'x4' LANDSCAPE STONE BENCHES - REF. SPEC.
- 32.09 6' HIGH VINYL COATED CHAIN LINK FENCE - REF. SPEC.
- 32.15 6'x 8' WIDE DOUBLE SWINGING GATE - REF. SPEC.
- 32.17 6'x6' WIDE DOUBLE SWINGING GATE - REF. SPEC.
- 32.18 NEW GRASS WHERE OLD VOLLEYBALL SAND PIT WAS LOCATED.

DUDLEY WILLIAMS & ASSOCIATES, P.A.
STRUCTURAL ENGINEERS

MIDWEST ENGINEERING, INC.

MECHANICAL ENGINEERS

INTEGRATED CONSULTING ENGINEERS

ELECTRICAL ENGINEERS

SHORT ELLIOTT HENDRICKSON, INC. (SEH)

CIVIL ENGINEERS

WATERS EDGE AQUATIC DESIGN

POOL ENGINEER

CITY OF VALLEY CENTER

CITY OF VALLE

CITY OF VAL LIONS PARK POOL BA

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REVISIONS

1 6.16.2023

PROJECT NUMBER

DATE

DATE
6.16.2023

SITE PLAN (LIONS PARK SPLASH PAD)

PARK SPLASH PAD)

A20.2

SUBMITTAL

Job: Valley Center Pool & Rec

Spec Section No: 13 11 92

Submittal No: 2

Revision No:

Sent Date: 8/21/23

Spec Section Title: 13 11 92 Plumbing Specialties for Pool/Splash Pad

Submittal Title: Splash Pad Equipment Specialties Product Data & Shop Drawings

Contractor:

Contractor's Stamp

REVIEWED ONLY

Contractor's review is for general compliance with the information provided in the Contract Documents and for general conformance with the design concept of the project. Any action noted herein is subject to the requirements set forth in the Contract Documents. Subcontractor/Supplier is responsible for all dimensions which shall be confirmed at the jobsite; all fabrication processes and techniques of construction; the coordination of Subcontractor's work with that of all other trades, and the performance of Subcontractor's work in accordance with the Contract Documents

McCownGordon Construction

Ethan Hinojosa 12:37:12 PM 08/21/2023

Architect:

<input checked="" type="checkbox"/> Reviewed	<input type="checkbox"/> Furnish as Corrected
<input type="checkbox"/> Rejected	<input type="checkbox"/> Revise and Resubmit
This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the Contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.	
By: Brian Hill	
Date: 08/28/2023	
WEAD Log #: SP#01	



Engineer:

item needs to be forwarded to pool consultant for review.

Reviewed Furnish as Corrected
 Rejected Revise and Resubmit
 No Engineer's Action Required

This review is only for general conformance with the design concept of the project and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the Contractor from compliance with the requirements of the drawings and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. The Contractor is responsible for: the following: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

By: BLW Date: 08/25/2023

Midwest Engineering, Inc.



1831 S. Anna St., Wichita, KS 67209
p. 316-262-1230 f. 316-262-4848

Submittal

Date: 8/11/2023

Project: Valley Center Lions Park Splash Pad
1050 North Meridian
Valley Center, KS 67147



General Contractor: McCOWNGORDON
255 N. Mead St, Suite 200
Wichita, KS 67202



Submittal Name: **Splash Pad Equipment/Specialties**

Specification Number: **13 11 85/92**

CM3 Review: Color Selections need to be made where noted.

Approved

Approved as noted

By: Larry Oxendine

REVIEWED FOR ELECTRICAL REQUIREMENTS

REVIEWED REVISE AND RESUBMIT
 REJECTED FURNISH AS CORRECTED

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades; and performing all work in a safe and satisfactory manner.

BY G. STEFAN DATE 8/29/23

Integrated Consulting Engineers, Inc
349 S. Hydraulic
Wichita, KS 67211



LIONS PARK SPLASHPAD

VALLEY CENTER, KANSAS

Splashpad Submittals

August 2023

- APPROVED
- APPROVED AS NOTED
- REVISE AND RESUBMIT
- DISAPPROVED

POWER PLAY

12804 S. Memorial Dr., Suite 114
Bixby, OK 74008
Tel: (918) 728-9978
info@power-play.net



*The product shown in the image may differ from the actual product sold.

Ideal age group: 2 to 5 years

VOR 7249 CASCADE RIVER

PRODUCT HIGHLIGHTS

- Hands-on water exploration through flow play and interactive Waves and Orbs
- Encourages collaborative play by allowing many children to play at the same time
- Accessible configuration and various types of game opportunities

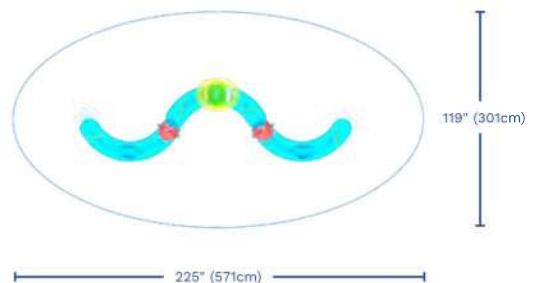
* Recommended installation in supervised areas



SPECIFICATIONS



SprayZone



H.W./L.

65 / 47 / 153"
164 / 118 / 389 cm

Color choices

Post and Orb: Vortex colors
Seeflow™ (6)
Seeflow™ Pond (3)

Flow

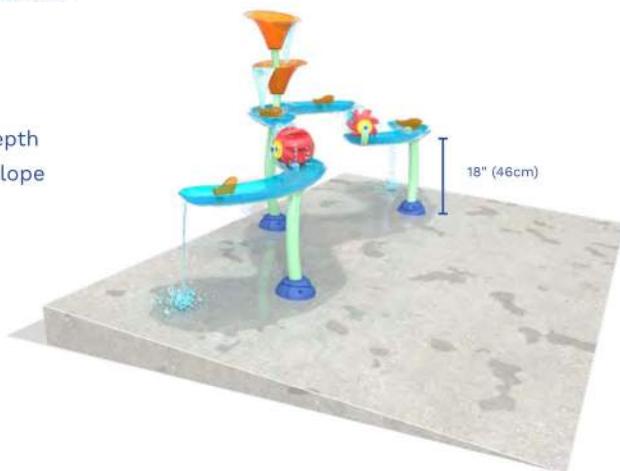
4-6 GPM
15-23 LPM

Pressure

3-4 PSI
0.2-0.3 BAR

Pool installation

- Perfect for installation in pool under 12" (30cm) of water depth
- Installation must be positioned as shown with pool entry slope
- Anchors must be installed level (not on a slope)



PRODUCT INNOVATIONS

This product features the following technologies that are unique to Vortex.



TOEGUARD™

- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Soft-touch Elastomer
- Infused with a UV resistant bright color



SEEFLOW™

- Impact-resistant polymer resistant to UV rays and chemicals
- Colorful reflections are created with the combination of bright colors, water, and sunlight
- Manufactured with up to 40% preconsumer recycled materials



ANCHORING SYSTEM SAFEWAP™

- Attractive ground caps are substituted for future play products
- Easily move products from one location to another at no additional cost
- Structural stainless steel base for maximum strength



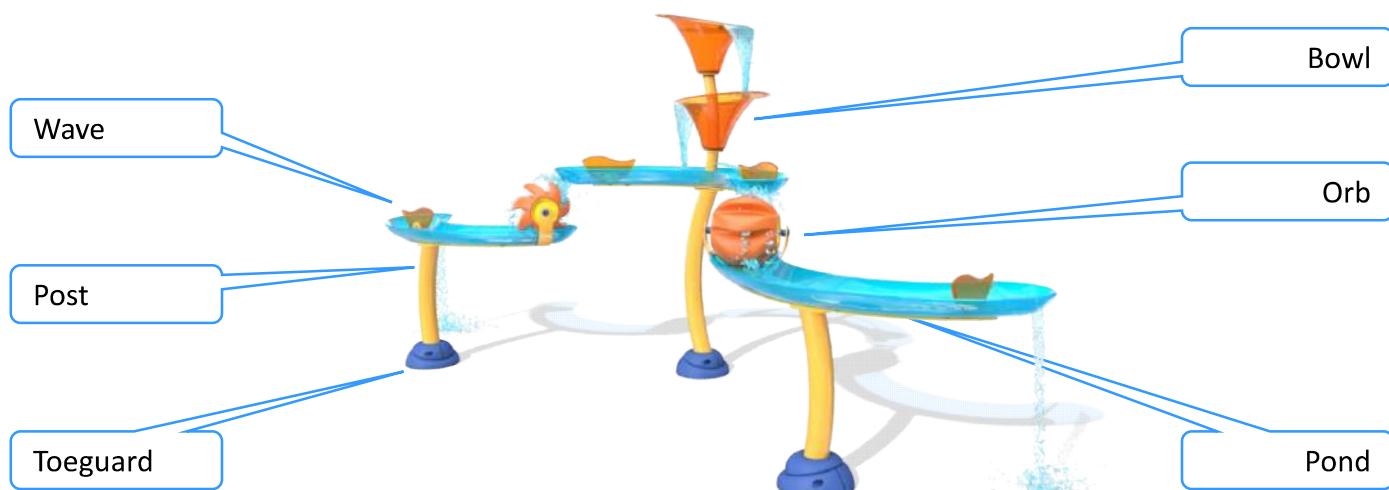
ORB

- Brings a new level of interaction to every play feature
- Promotes the learning of cause & effect
- Develops dexterity and motor skills

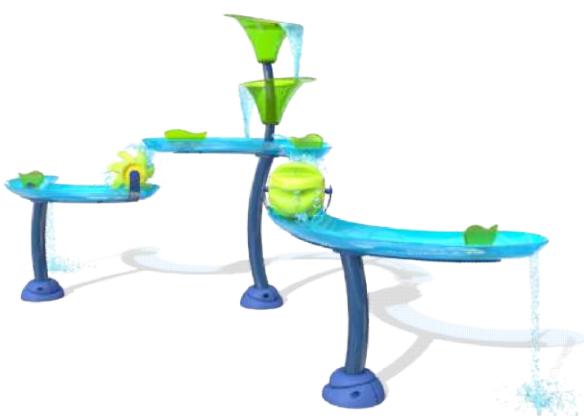
CASCADE RIVER

VOR 7249

SELECT ONE:



Color Combination 1:
Saffron, Ocean Blue,
Orange, and Blue



Color Combination 2:
Navy, Ocean Blue,
Green, Lime, and Blue



Color Combination 4:
Coral Green, Ocean Blue,
Yellow, Red, and Blue

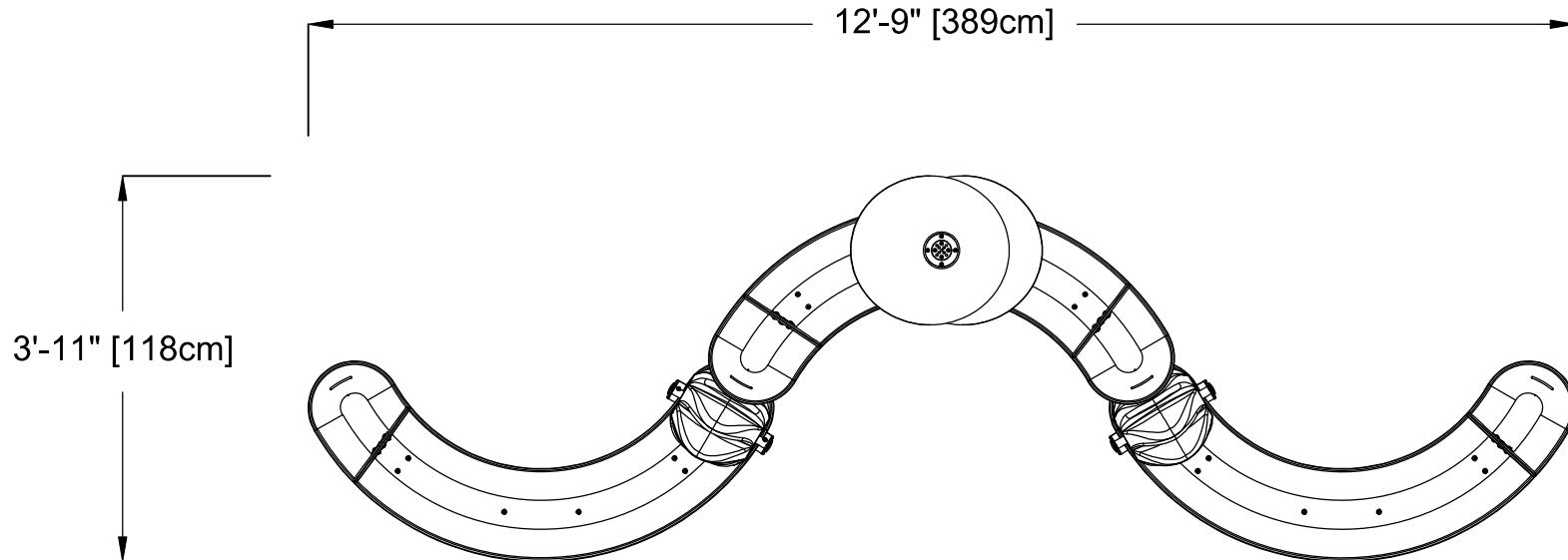


Color Combination 3:
Green, Ocean Blue,
Yellow, Red, and Blue



Color Combination 5:
Sparkle Grey, Ocean Blue,
Orange, and Blue

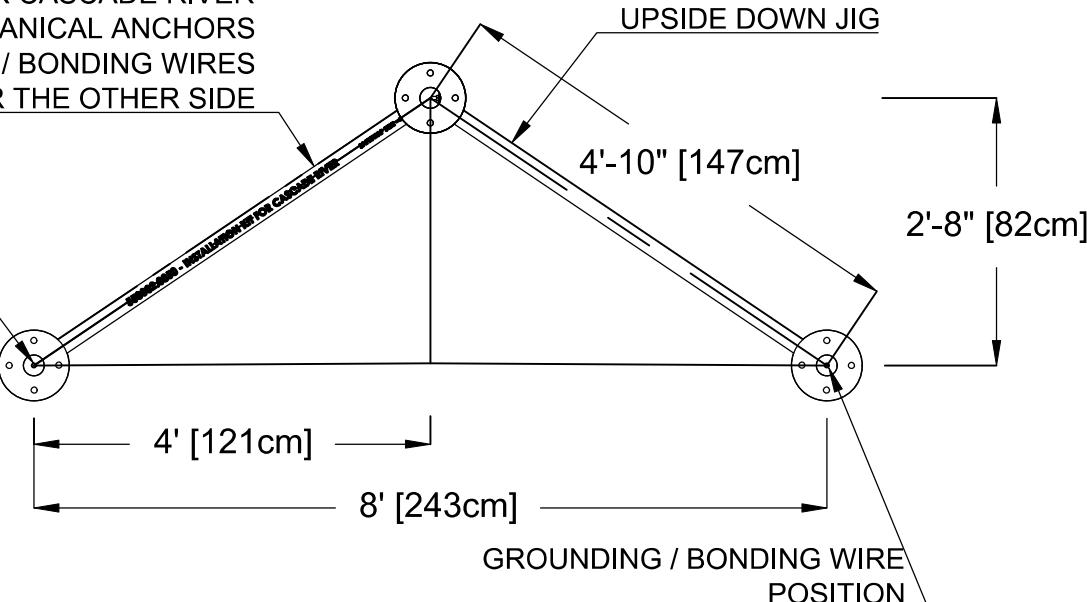
PLAN VIEW



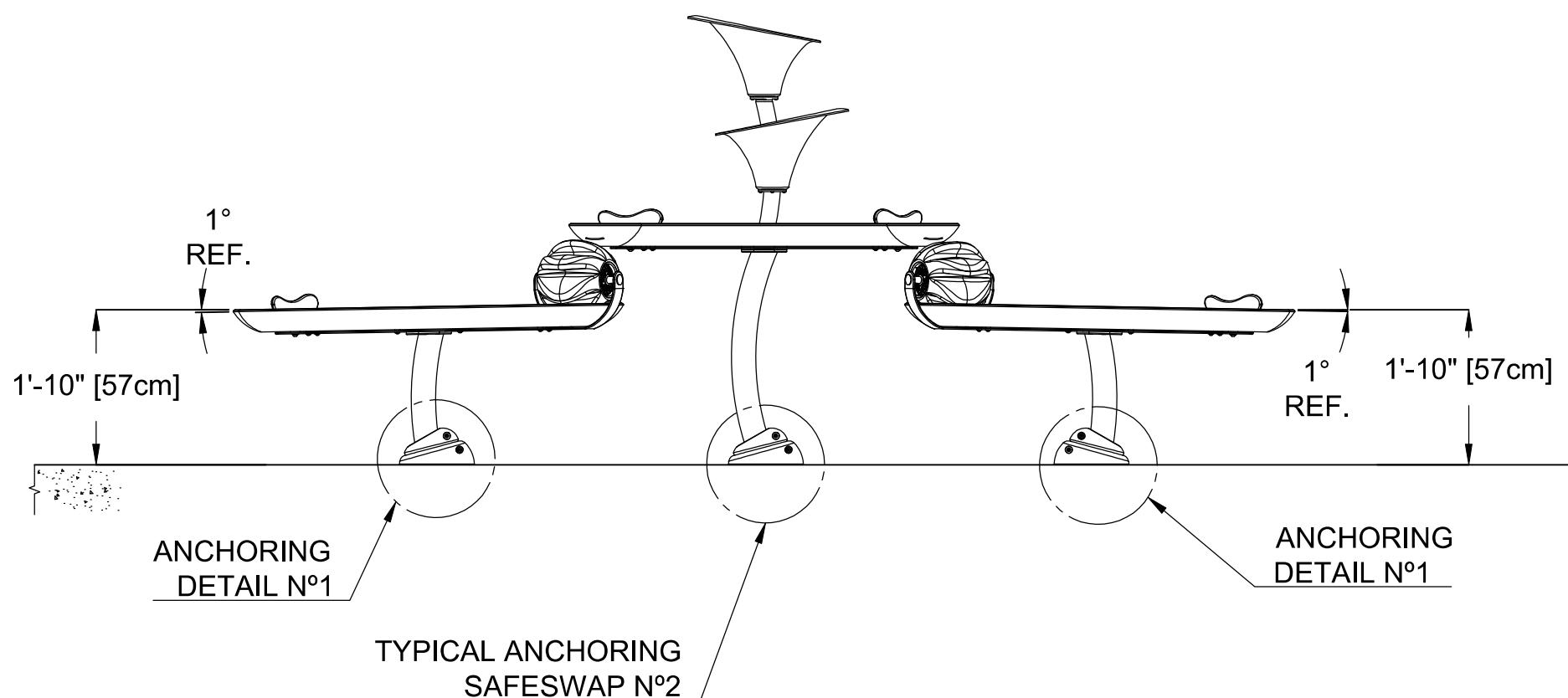
ANCHORING LOCATIONS

55000.0850 - INSTALLATION KIT FOR CASCADE RIVER
USE TO POSITION THE MECHANICAL ANCHORS
AND THE GROUDING / BONDING WIRES
FLIP THE JIG UPSIDE DOWN FOR THE OTHER SIDE

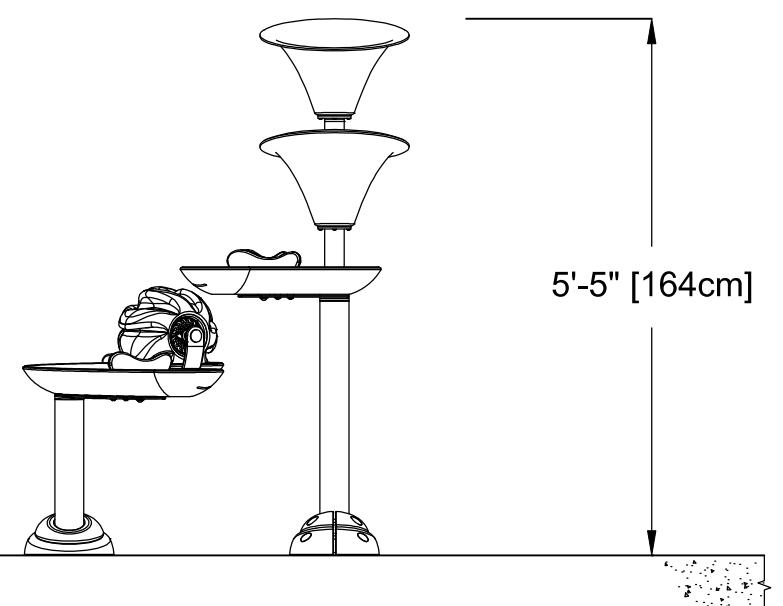
GROUNDING / BONDING WIRE POSITION



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



VOR-7249 CASCADE RIVER (Construction Detail)

PRODUCT NAME: CASCADE RIVER

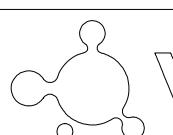
PRODUCT INFORMATION

PRODUCT NUMBER: VOR-7249

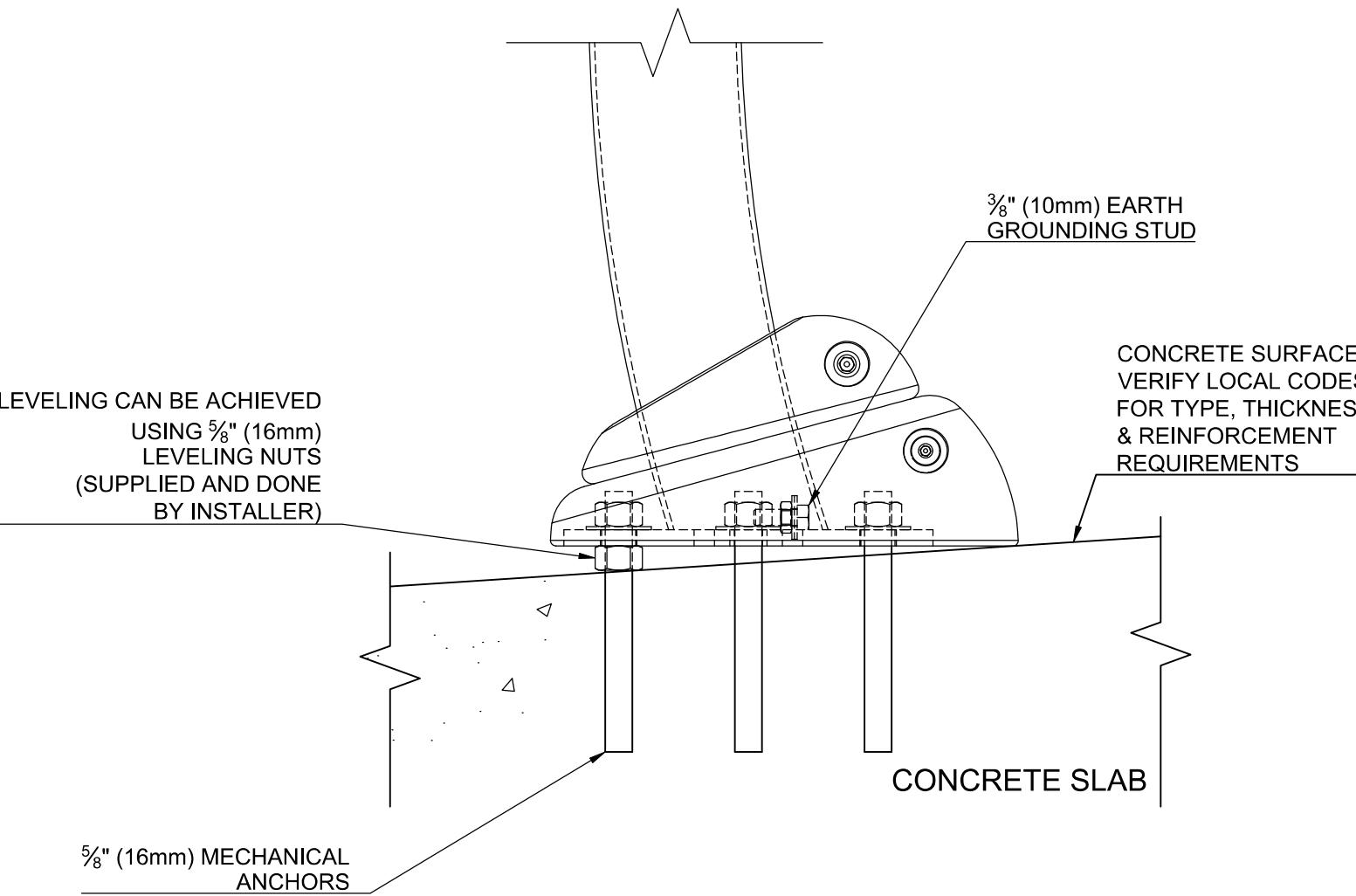
DATE: 04/30/21

SHEET NO: 1/2

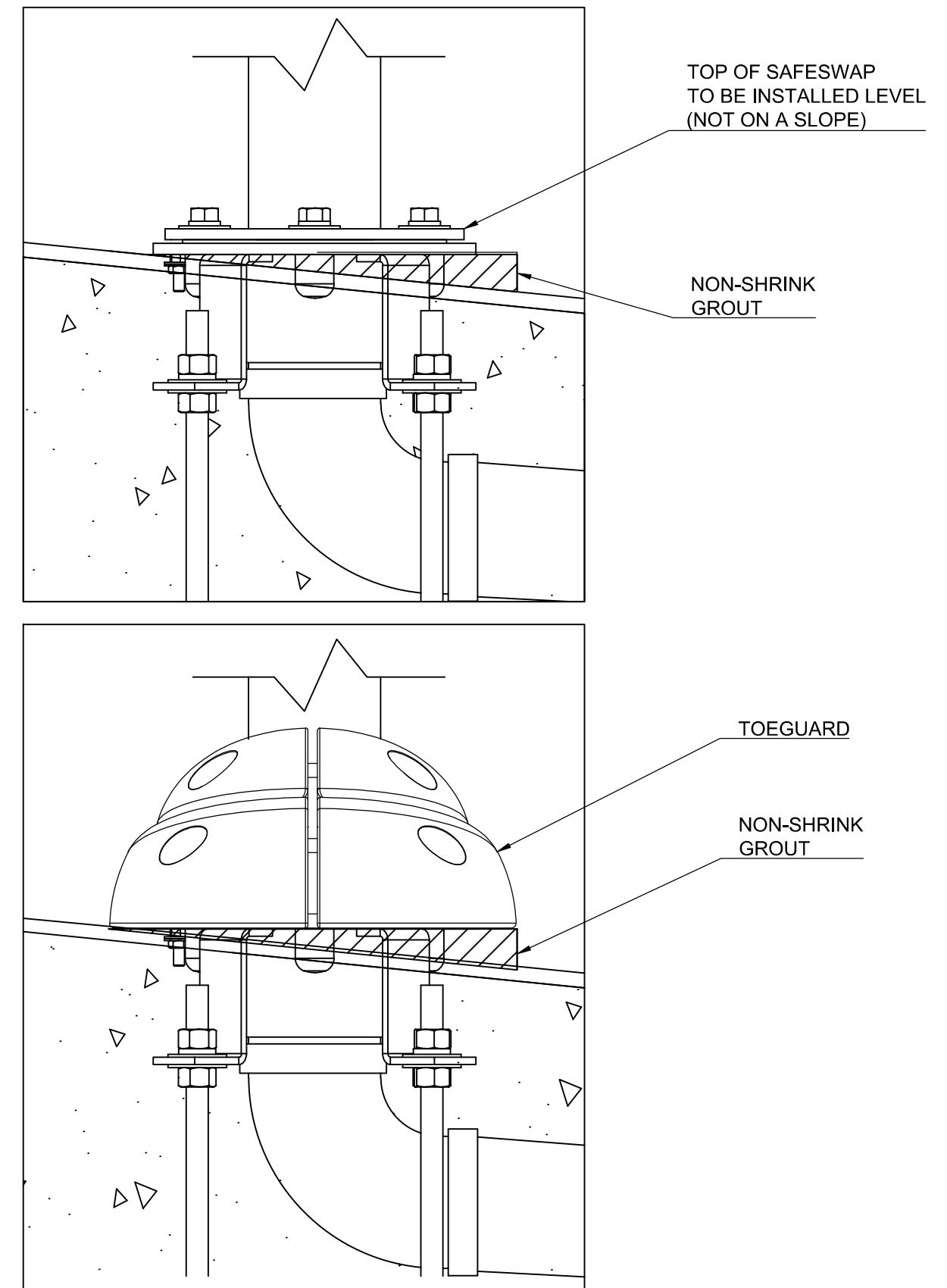
11"x17" SHEET SIZE

 VORTEX

ANCHORING DETAIL N°1



SAFESWAP N°2 DETAIL



VOR-7249 CASCADE RIVER (Construction Detail)

PRODUCT NAME: CASCADE RIVER

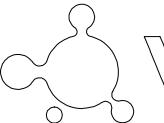
PRODUCT INFORMATION

PRODUCT NUMBER: VOR-7249

DATE: 03/07/21

SHEET NO: 2/2

11"x17" SHEET SIZE

 VORTEX



Ideal for all ages

VOR 7231 LUNA N°2

PRODUCT HIGHLIGHTS

- Kids stay riveted watching the Orbs spin, then engage in hands-on exploration of the kinetics at work
- Kids discover the spin “sweet spot” by pressing the Podsprays, learning the relationship between cause and effect
- Hand-spin the Orb, splash water out of the bowl and soak a friend for some socially engaging fun



Spray Zone



H/W/L

49/77/21 in
124/195/53 cm

Flow

6-8 GPM
22-30 LPM

Pressure

4-6 PSI
0.3-0.4 BAR

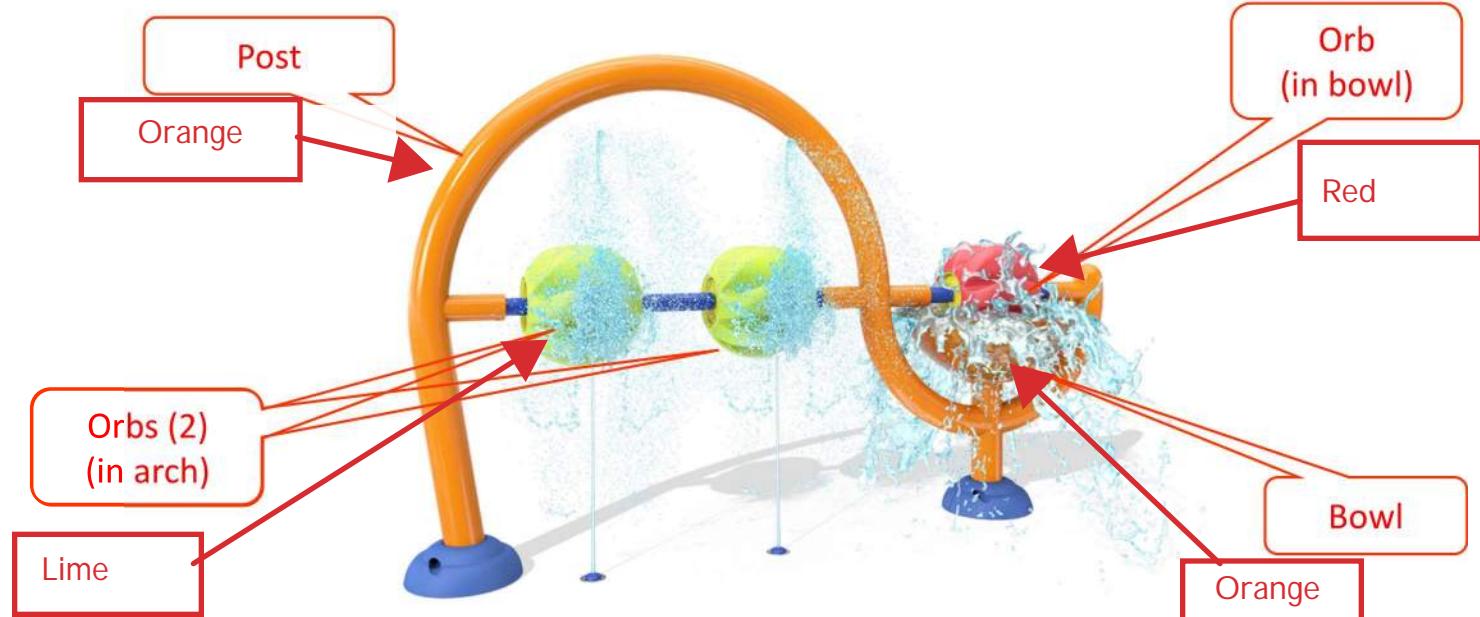


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+1.514.694.3868 (INTERNATIONAL)
info@vortex-intl.com • VORTEX-INTL.COM

LUNA No2

VOR 7231

SELECT BELOW:



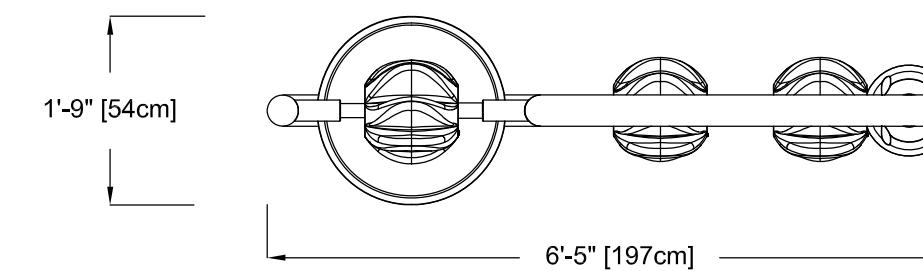
Color Options	Beige	Saffron	Yellow	Orange	Red	Fuchsia	Navy Blue	Sly Blue	Blue	Pastel Blue	Green	Mint Green	Pale Green	Fern Green	Coral Green	Forest Green	Grey	Sparkle	Brown	White	Black
Post (select one):																					
Toe Guard:	Standard Blue																				

Color Options	Orange	Red	Blue	Lime
Orb (in bowl) (select one):				

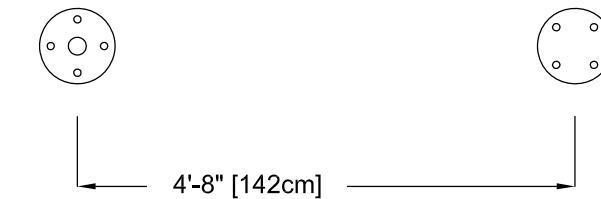
Color Options	Orange	Red	Blue	Lime
Orbs (2) (in arch) (select one):				

Color Options	Yellow	Orange	Red	Blue	Green
Bowl (select one):					

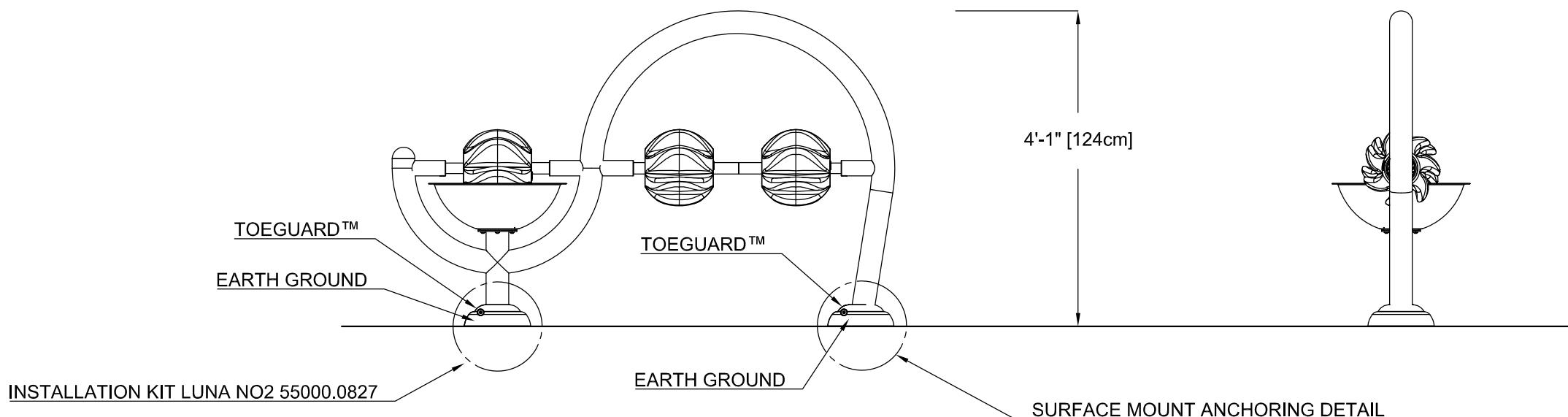
PLAN VIEW



ANCHORING LOCATIONS

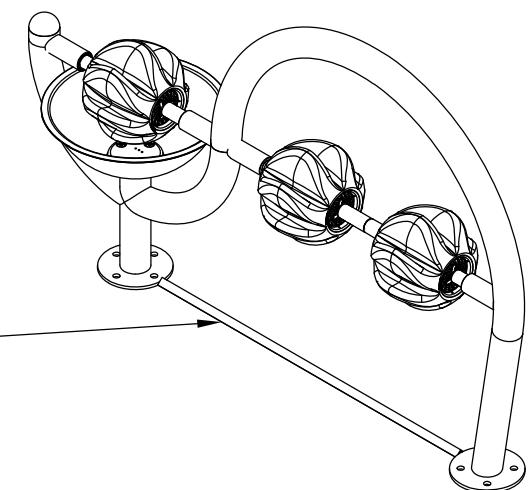


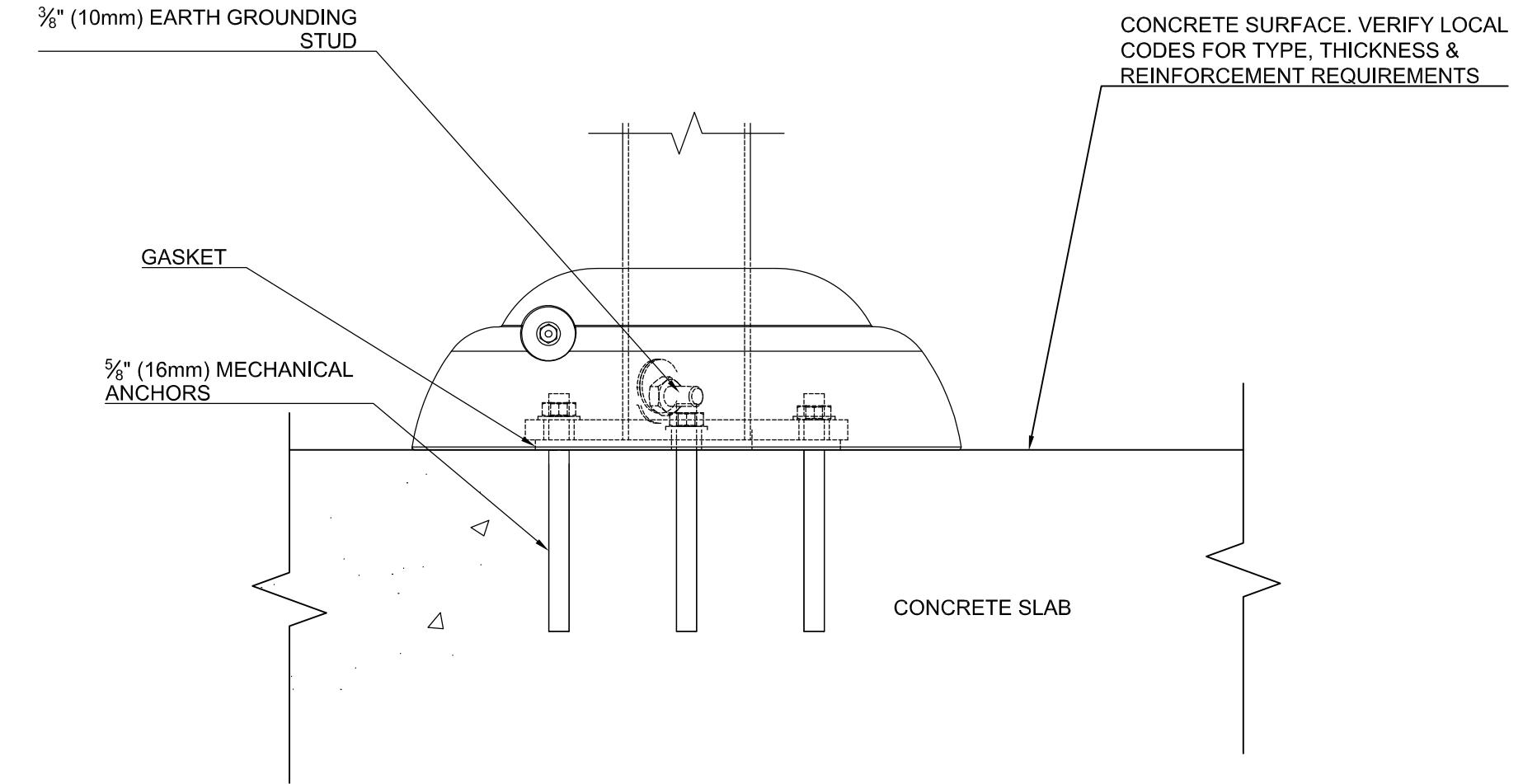
FRONT ELEVATION VIEW



SIDE ELEVATION VIEW

**DO NOT REMOVE CROSS BAR UNTIL BOTH LEGS
ARE ANCHORED**





VOR-7231.2XXX LUNA No.2 (Construction Detail)

ANCHORING DETAIL

PRODUCT NAME: LUNA No.2

PRODUCT NUMBER: 7231.2XXX

DATE: 10/04/2017

SHEET NO: 2/2

11"x17" SHEET SIZE

 **VORTEX**



VOR 0611 ACTIVATOR N°3

PRODUCT HIGHLIGHTS

- Enables to activate the water sequence of play features
- Light signal to alert when the activator is activated
- Controls water consumption and helps reduce waste



PLAYSTART™ ACTIVATOR

- On-demand activation saves water
- Light signal to alert when the activator is activated
- Constructed of durable stainless steel - vandal resistant
- No moving parts
- Low voltage - safe fun
- Easy operation - for kids of all ages & abilities



H/W/L

36/14/14 in

91/36/36 cm

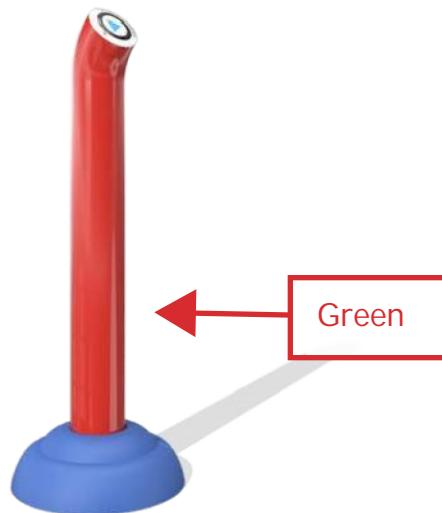


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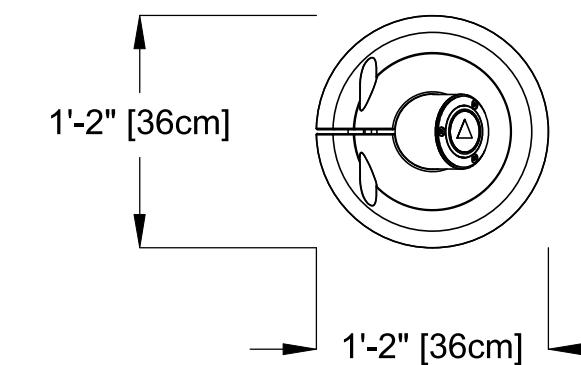
ACTIVATOR No3

VOR 0611

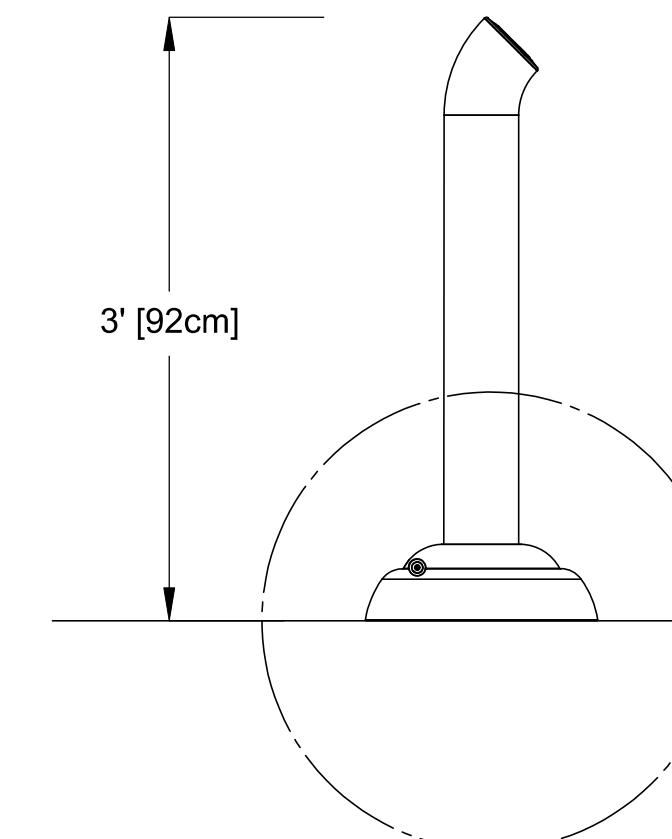
SELECT ONE:



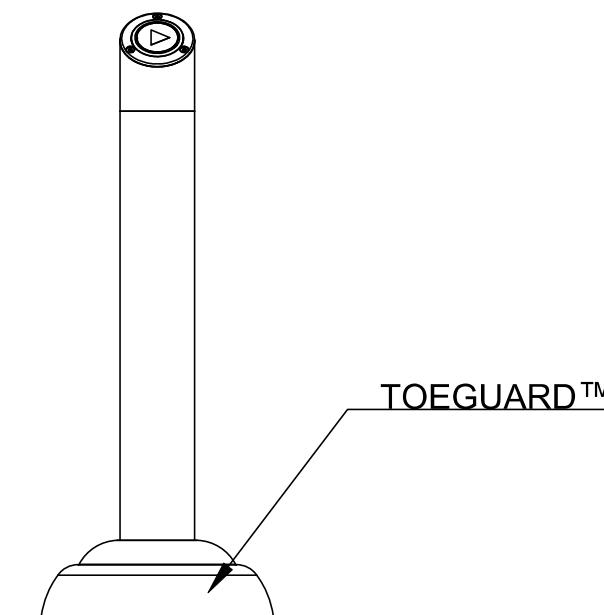
PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



TYPICAL ANCHORING SAFESWAP N°1

FOR THIS APPLICATION, 2" NPT FEMALE COUPLING OF THE SAFESWAP N°1 WILL BE USED TO CONNECT THE ELECTRICAL CONDUIT, SUPPLIED BY INSTALER, AND RUN THE ELECTRICAL CABLE.

ELECTRICAL SPECIFICATION

TYPICAL 40mA AT 24V, M12-5PIN CONNECTOR CABLE, 22AWG, MAXIMUM O.D. : 0.25"
(SUPPLIED UP TO 75M WITH ACTIVATOR BY VORTEX)

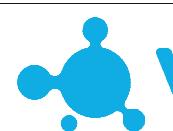
PRODUCT NAME: ACTIVATOR N°3

PRODUCT NUMBER: VOR-0611

DATE: 2022/V3

SHEET NO: 1/1

11"x17" SHEET SIZE

 **VORTEX**



Ideal age group: For all ages

VOR 8084 FOAMING GEYSER N°2



PRODUCT HIGHLIGHTS

- Exciting water effect from the ground for an immersive play
- Kids will enjoy running their hands and legs through the water



This Geyser makes froth!

You may also like



• Ombrello N°3
(VOR 7441)



• Waterbug N°4
(VOR 7661)



• Snail N°4
(VOR 7217)

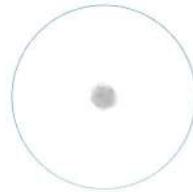


• World leader in aquatic play solutions with over 6,000 installations worldwide
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1.877.586.7839 (free USA/CND) • +1.514.694.3868 (Intl.)

Spray Zone



ø 96" (ø 244 cm)



H/W/L	Pressure
1/11/11 in 2.5/28/28 cm	2-5 PSI 0.14-0.34 BAR
Flow	Smartflow
8-20 GPM 30.28-75.71 LPM	- -
Color Choices: Colors as shown	

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



SAFESWAP™ ANCHORING SYSTEM

- Attractive ground caps are substituted for future play products
- Easily add future play elements with no change to infrastructure
- Easily move products from one location to another at no additional cost
- Provides flexibility to spread investment over time as capital becomes available
- Structural stainless steel base for maximum strength
- Optional interim spray cap (as shown)

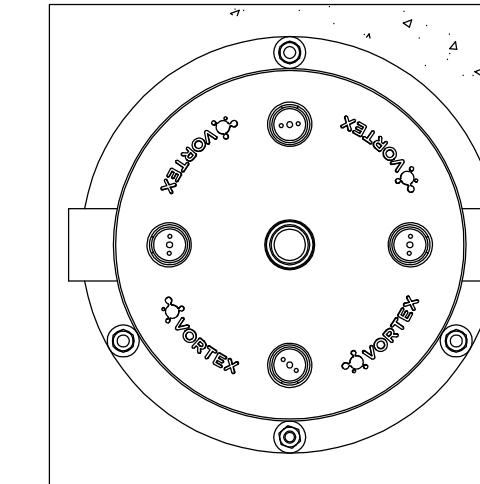
WATER EFFECTS

- Frothy ground jet (1)



- World leader in aquatic play solutions with over 6,000 installations worldwide
- vortex-intl.com • info@vortex-intl.com
- 1.877.586.7839 (free USA/CND) • +1.514.694.3868 (Intl.)

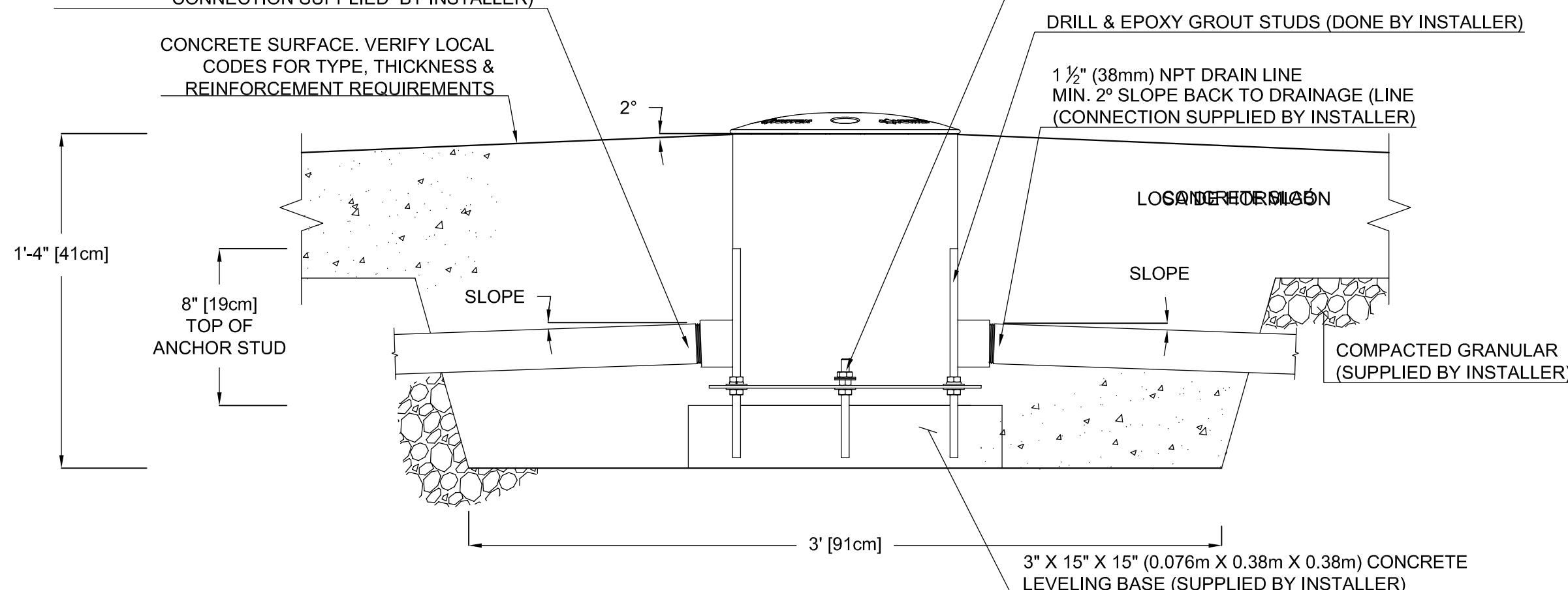
PLAN VIEW



FRONT ELEVATION VIEW

WATER LINE INLET 1 1/2" (38mm) NPT. MIN. 2° SLOPE BACK TO WATER SUPPLY. REFER TO CONSTRUCTION DOCUMENTS FOR LINE SIZE DETAILS. (LINE CONNECTION SUPPLIED BY INSTALLER)

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



VOR-8084.4XXX FOAMING GEYSER N°2 (Construction Detail)

PRODUCT NAME: FOAMING GEYSER N°2

PRODUCT INFORMATION

PRODUCT NUMBER: VOR-8084.4XXX

DATE: 12/13/17

SHEET NO: 1/1

11"x17" SHEET SIZE

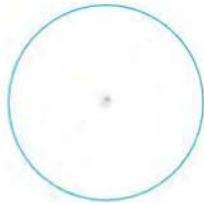




Ideal for all ages

VOR 7512 JET STREAM N°1

Spray Zone



ø 10' (ø 305cm)

PRODUCT HIGHLIGHTS

- Enjoy running your feet and hands in this feature
- Provide high interactivity with low water consumption

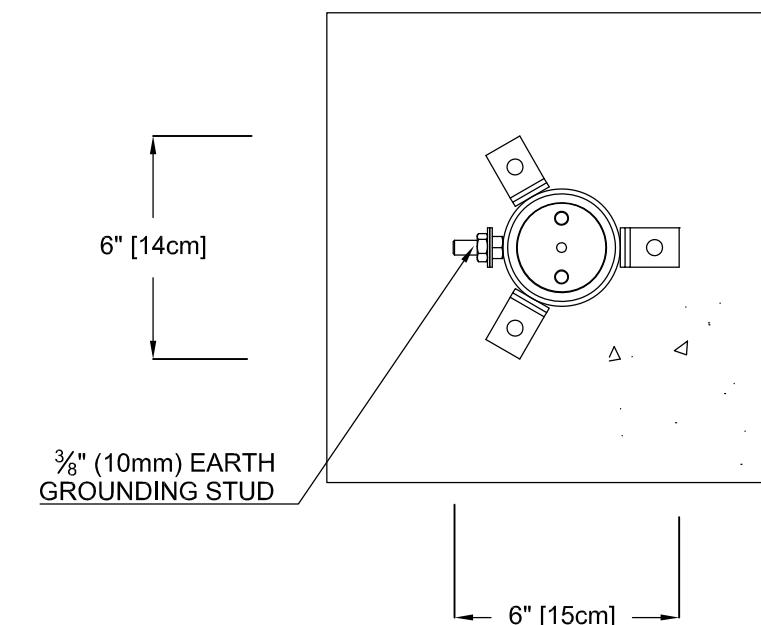


H/W/L	Pressure
0/3/3 in	5-10 PSI
0/8/8 cm	0.3-0.7 BAR
Flow	
2-3 GPM	
7.6-11.4 LPM	
Application	Color choices
Splashpad®, Poolplay™	Colors as shown

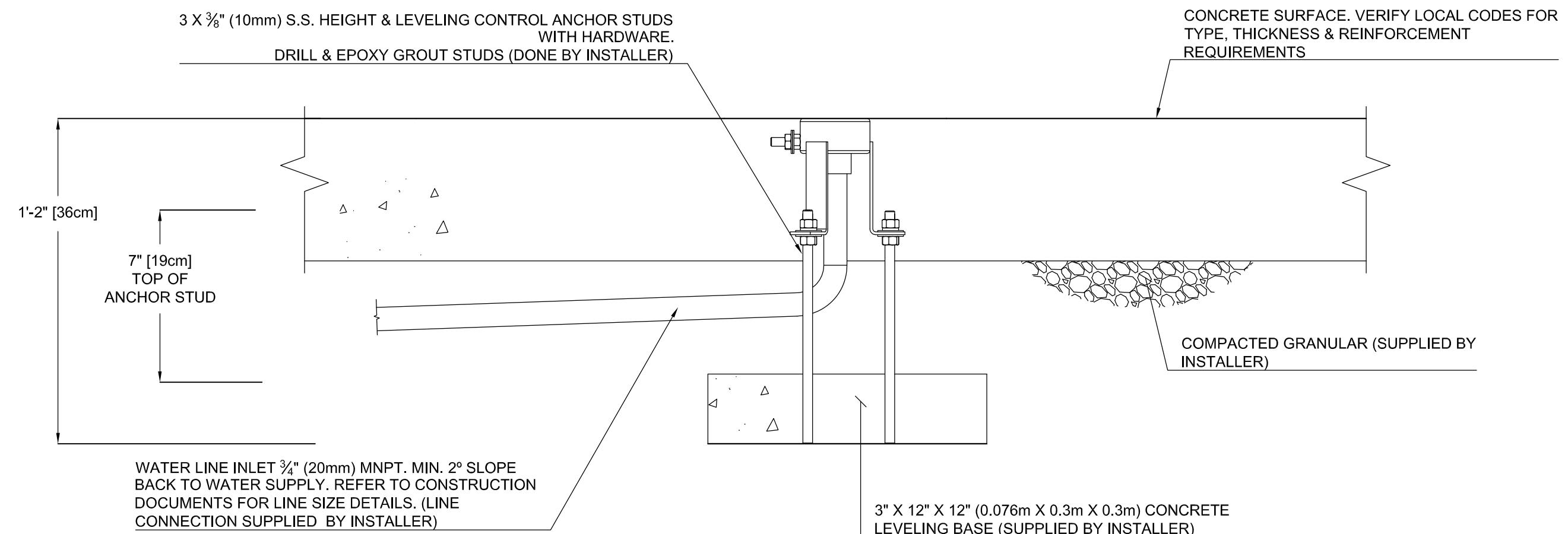


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+1.514.694.3868 (INTERNATIONAL)

PLAN VIEW



FRONT ELEVATION VIEW



PRODUCT NAME: JET STREAM

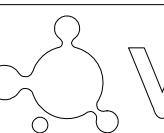
PRODUCT INFORMATION

PRODUCT NUMBER: VOR-7512.0XXX

DATE: 03/24/14

SHEET NO: 1/1

11"x17" SHEET SIZE

 VORTEX

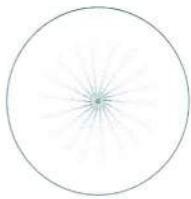


Ideal for all ages

VOR 7518 SIDE WINDER

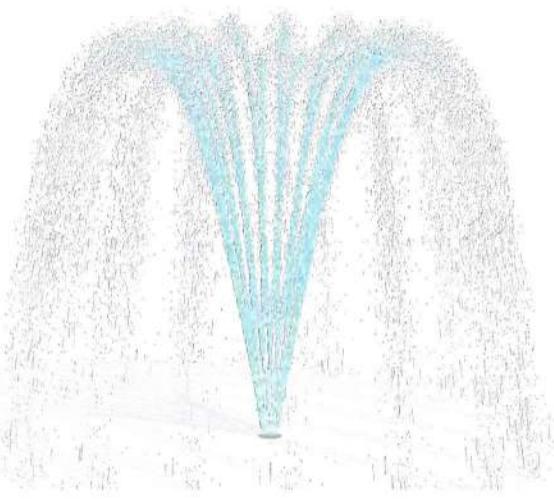
Spray Zone

ø 144" (ø 365 cm)



PRODUCT HIGHLIGHTS

- Encourage imaginative play with its multiple gentle streams
- Kids will enjoy running their hands and legs through the water



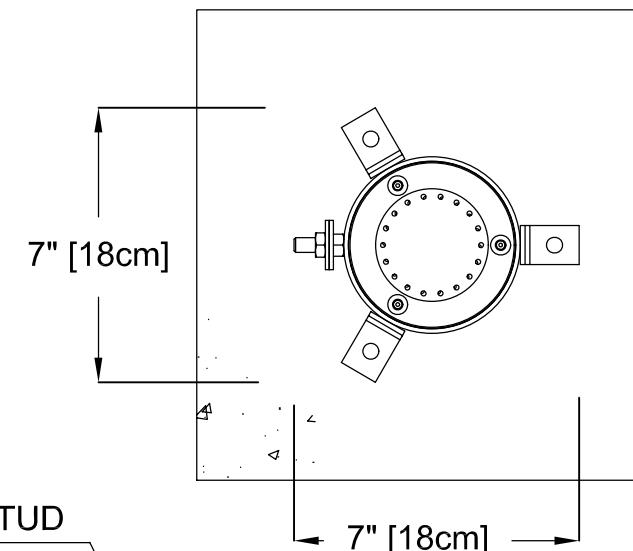
H/W/L	Pressure
0/5/5 in	1-5 PSI
0/13/13 cm	0.1-0.3 BAR

Flow	Smartflow
5-8 GPM	-
18.9-30.3 LPM	-



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PLAN VIEW

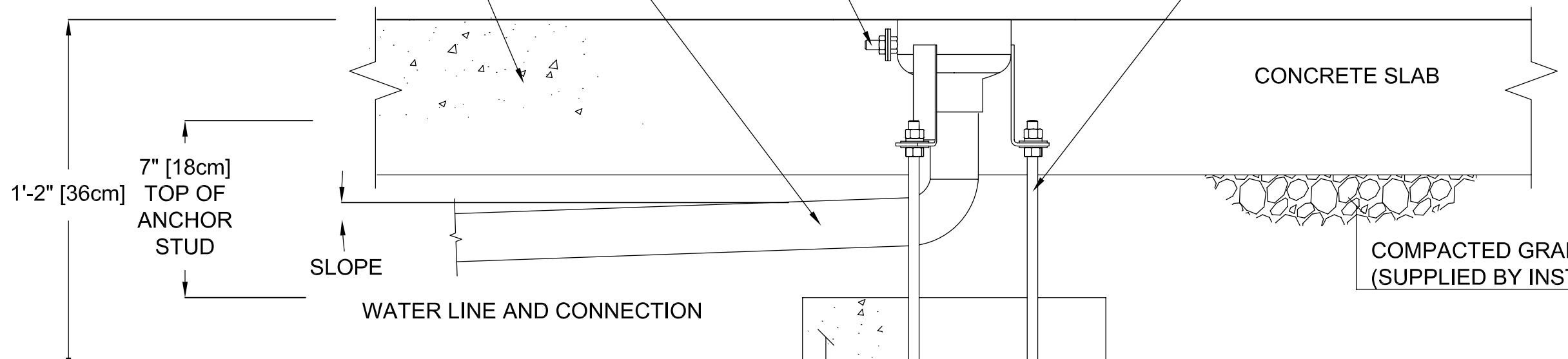


FRONT ELEVATION VIEW

$\frac{3}{8}$ " (10mm) EARTH GROUNDING STUD

WATER LINE INLET 1 $\frac{1}{2}$ " (38mm) NPT. MIN. 2° SLOPE BACK TO WATER SUPPLY. REFER TO CONSTRUCTION DOCUMENTS FOR LINE SIZE DETAILS. (LINE CONNECTION SUPPLIED BY INSTALLER)

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



3 X $\frac{3}{8}$ " (10mm) S.S. HEIGHT & LEVELING CONTROL ANCHOR STUDS WITH HARDWARE.

DRILL & EPOXY GROUT STUDS (DONE BY INSTALLER)

VOR-7518.0XXX SIDE WINDER (Construction Detail)

PRODUCT NAME: SIDE WINDER

PRODUCT INFORMATION

PRODUCT NUMBER: VOR-7518.0XXX

DATE: 10/19/10

SHEET NO: 1/1

11"x17" SHEET SIZE

 **VORTEX**



VOR 7010 WATER JELLY N°1

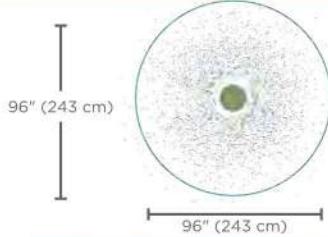
PRODUCT HIGHLIGHTS

- Promotes distinct opportunities for fun
- Children will enjoy passing their hands and feet through the water



Ideal for all ages

Spray Zone



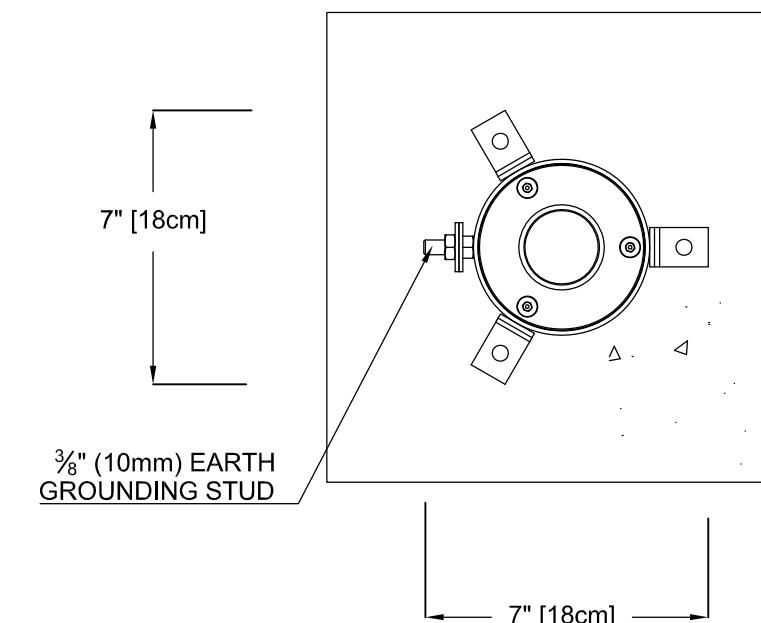
H/W/L	Pressure
0/5/5 in	3-5 PSI
0/13/13 cm	0.2-3 BAR

Flow	Smartflow
5-7 GPM	-
18.9-26.5 LPM	-
Color Choices: 4 color combinations	

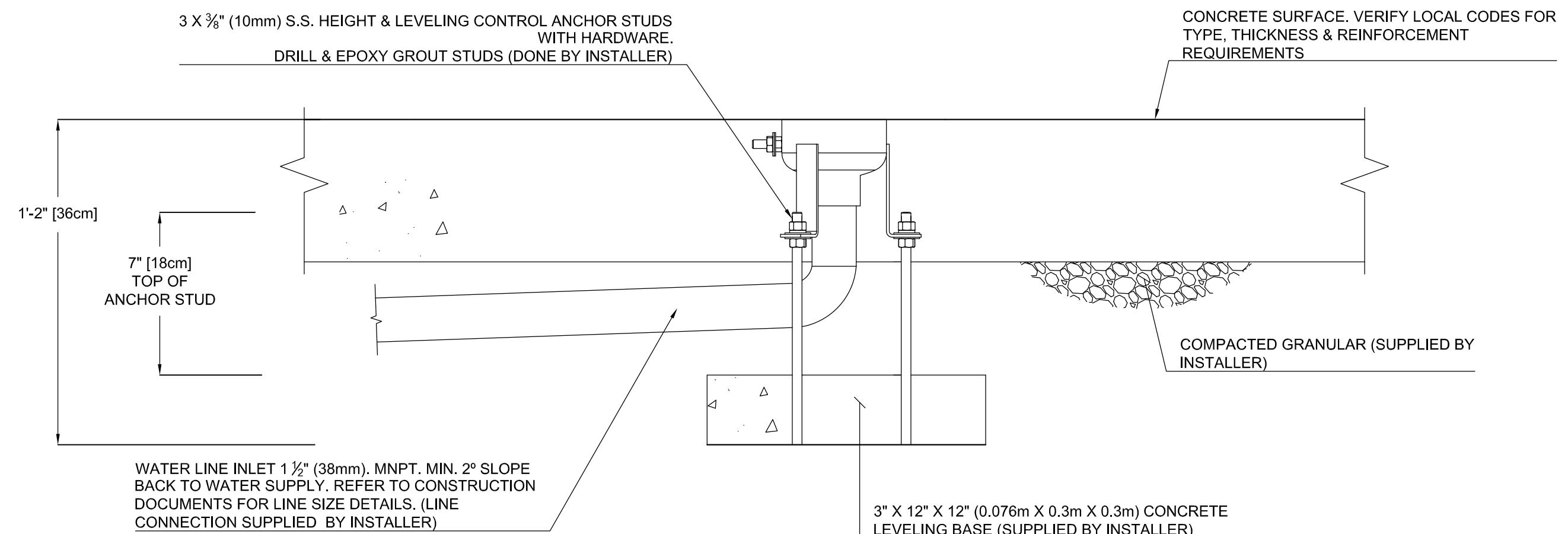


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PLAN VIEW



FRONT ELEVATION VIEW



PRODUCT NAME: WATER JELLY N°1

PRODUCT NUMBER: VOR-7010.0002

DATE: 03/20/18

PRODUCT INFORMATION

SHEET NO: 1/1

11"x17" SHEET SIZE

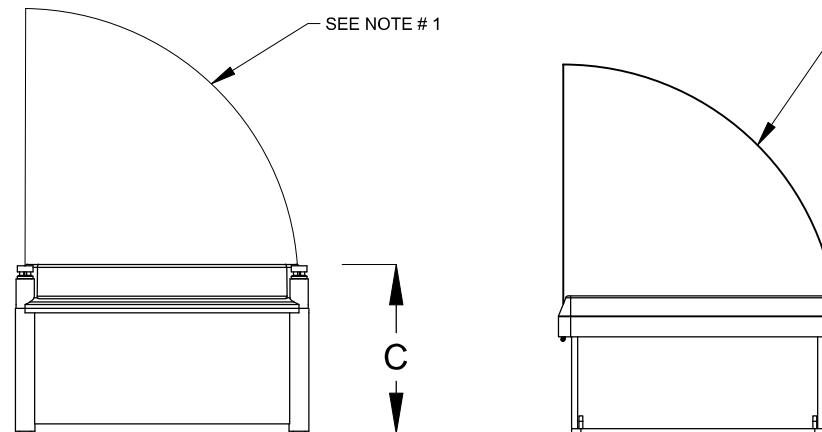
 **VORTEX**

INSTALLATION DRAWING - DIMENSIONS FOR MAESTROPRO ENCLOSURES 33907.XXBX

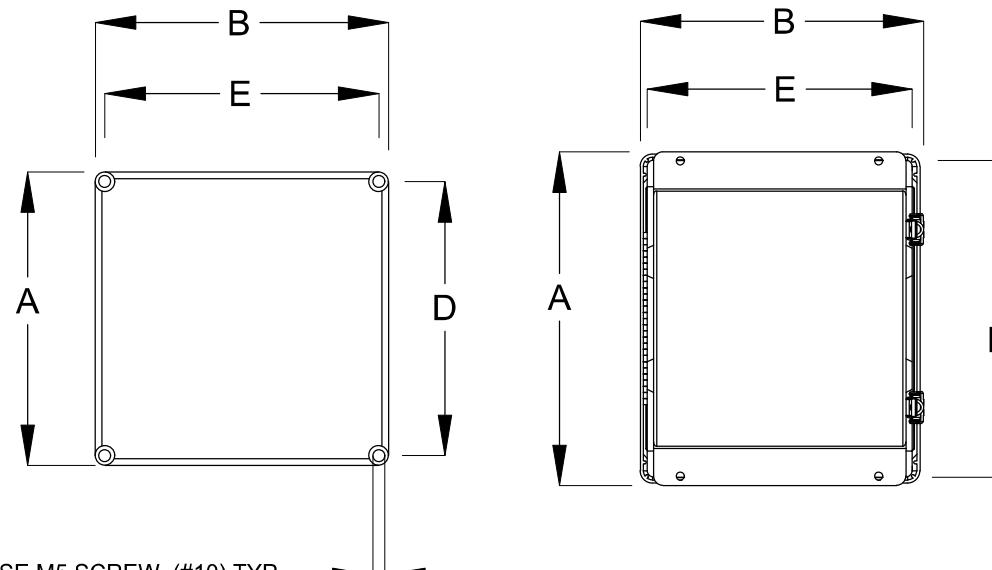
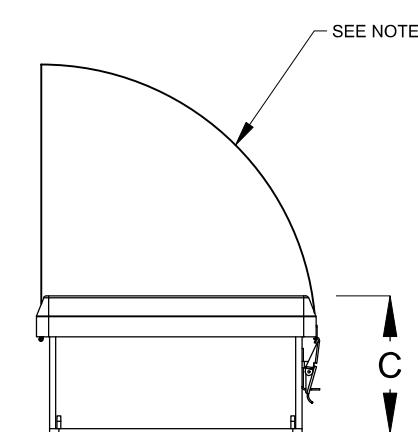
NOTE:

1 - ENSURE ENOUGH CLEARANCE FOR THE DOOR OPENING

MAESTROPRO CONTROL
ENCLOSURE



MAESTROPRO POWER BOX
ENCLOSURE



REFER TO THE PIPING AND ELECTRICAL
SHEET FOR THE CONTROLLER NUMBER

MAESTROPRO ENCLOSURES DIMENSIONS

REFERENCE No.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
33907.12B2	MAESTROPRO CTRL 24OUT/12IN 120VAC/240HZ	11.88"	11.88"	6.85"	11.08"	11.08"
33907.22B2	MAESTROPRO CTRL EXP 24OUT/12IN 120VAC/240HZ	11.88"	11.88"	6.85"	11.08"	11.08"
33907.13B0	MAESTROPRO POWERBOX 24OUT/12IN 120VAC/60HZ	12.308"	10.215"	5.57"	12.058"	9.965"
33907.13B1	MAESTROPRO POWERBOX 24OUT/12IN 240VAC/50HZ	12.308"	10.215"	5.57"	12.058"	9.965"

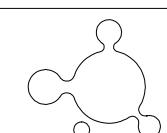
PRODUCT NAME: INSTALLATION DRAWING - DIMENSIONS FOR MAESTROPRO ENCLOSURES 33907.XXBX

PRODUCT NUMBER: 33907.XXBX

DATE: 04/06/20

SHEET NO: 1/3

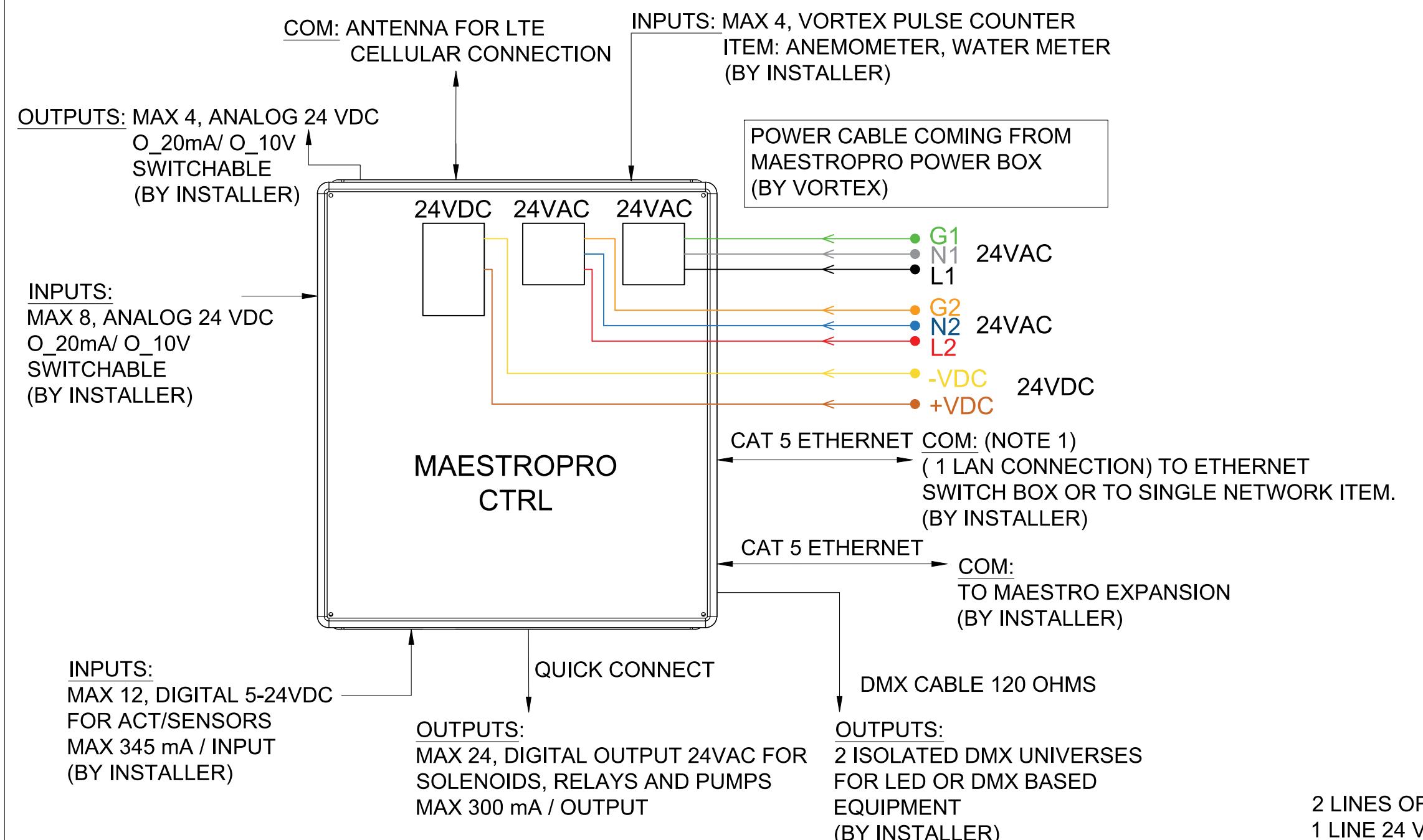
11"x17" SHEET SIZE

 **VORTEX**
AQUATIC STRUCTURES INTERNATIONAL

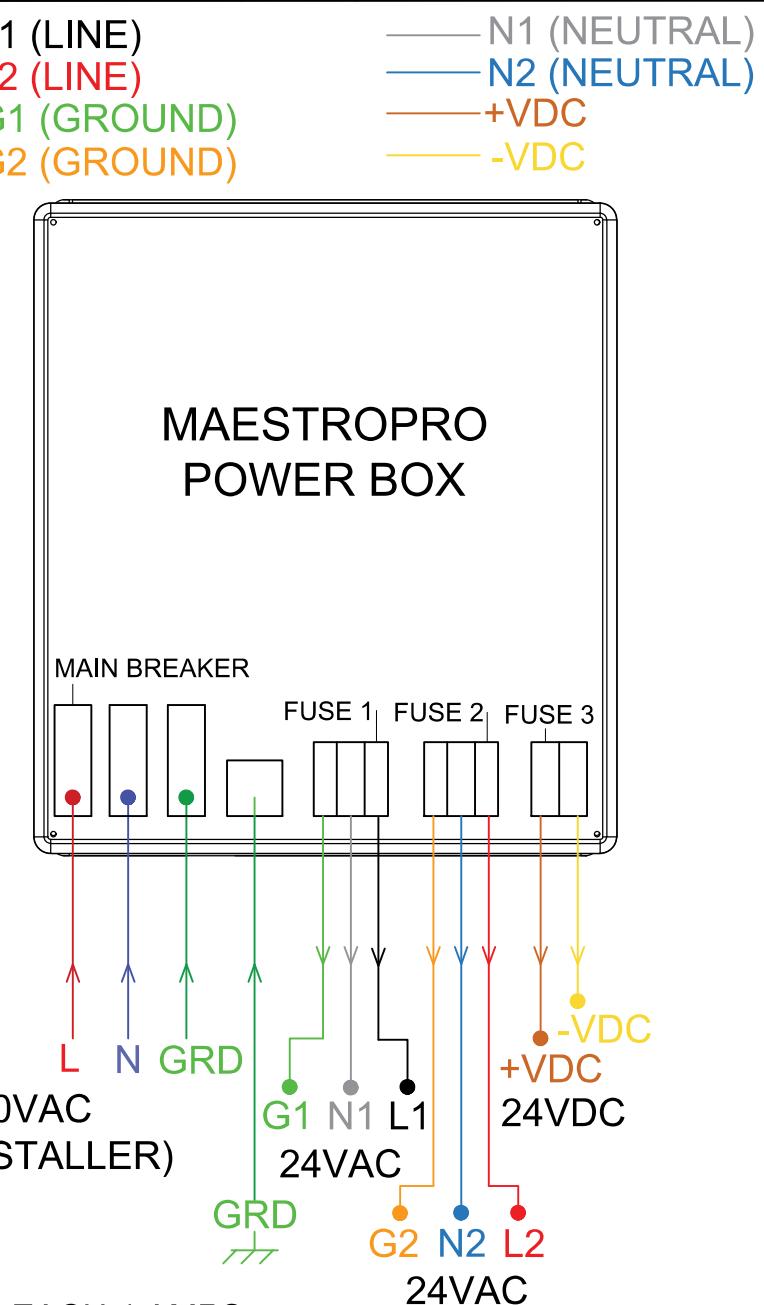
INSTALLATION DRAWING - MAESTROPRO CTRL 33907.12B2 AND MAESTROPRO POWER BOX 33907.13BX CONNECTIONS

NOTE:

- 1 - A MAXIMUM OF 1 ETHERNET CAT 5 CONNECTIONS IS AVAILABLE PER MAESTROPRO.
IF MORE ETHERNET LAN CONNECTIONS ARE NEEDED, THEN IT REQUIRES AN ETHERNET SWITCH BOX (SOLD SEPARATELY).
- 2 - FOR DIGITAL INPUT, 5-24 VDC SUPPLIED BY MAESTROPRO. REFER TO THE CORRESPONDING SCHEMATIC
DRAWING MANUAL FOR WIRING DETAILS.
- 3 - MAESTROPRO IS DHCP ADDRESSED BY CONNECTED LAN DEVICE.
- 4- WHEN USED WITH EXPANSION UNITS, AN ETHERNET CAT 5 CABLE IS REQUIRED BETWEEN EACH UNIT.
- 5- WATER TIGHT CONNECTIONS WITH MAESTROPRO DONE BY INSTALLER.
- 6- ALL WIRES AND CABLES ELECTRICAL CALCULATION ARE BY INSTALLER AND SHALL BE APPROVED ACCORDING TO LOCAL
CODE AND BRAND NEW.



CIRCUIT BREAKER & FUSE	AMPS MAX	CIRCUIT
MAIN BREAKER; 3 AMPS	4 MAX	PRIMARY 120/240 VAC
FUSE 1; 5 AMPS	5 MAX	SECONDARY 24 VAC
FUSE 2; 5 AMPS	5 MAX	SECONDARY 24 VAC
FUSE 3; 5 AMPS	5 MAX	POWER SUPPLY 24 VDC



2 LINES OF 24 VAC, EACH 4 AMPS
1 LINE 24 VDC (V+, V-)

PRODUCT NAME: INSTALLATION DRAWING - MAESTROPRO CTRL 33907.X2BX AND MAESTROPRO POWER BOX 33907.13BX CONNECTIONS

PRODUCT NUMBER: 33907.XXBX

DATE: 05/04/20

SHEET NO: 2/3

11" x 17" SHEET SIZE

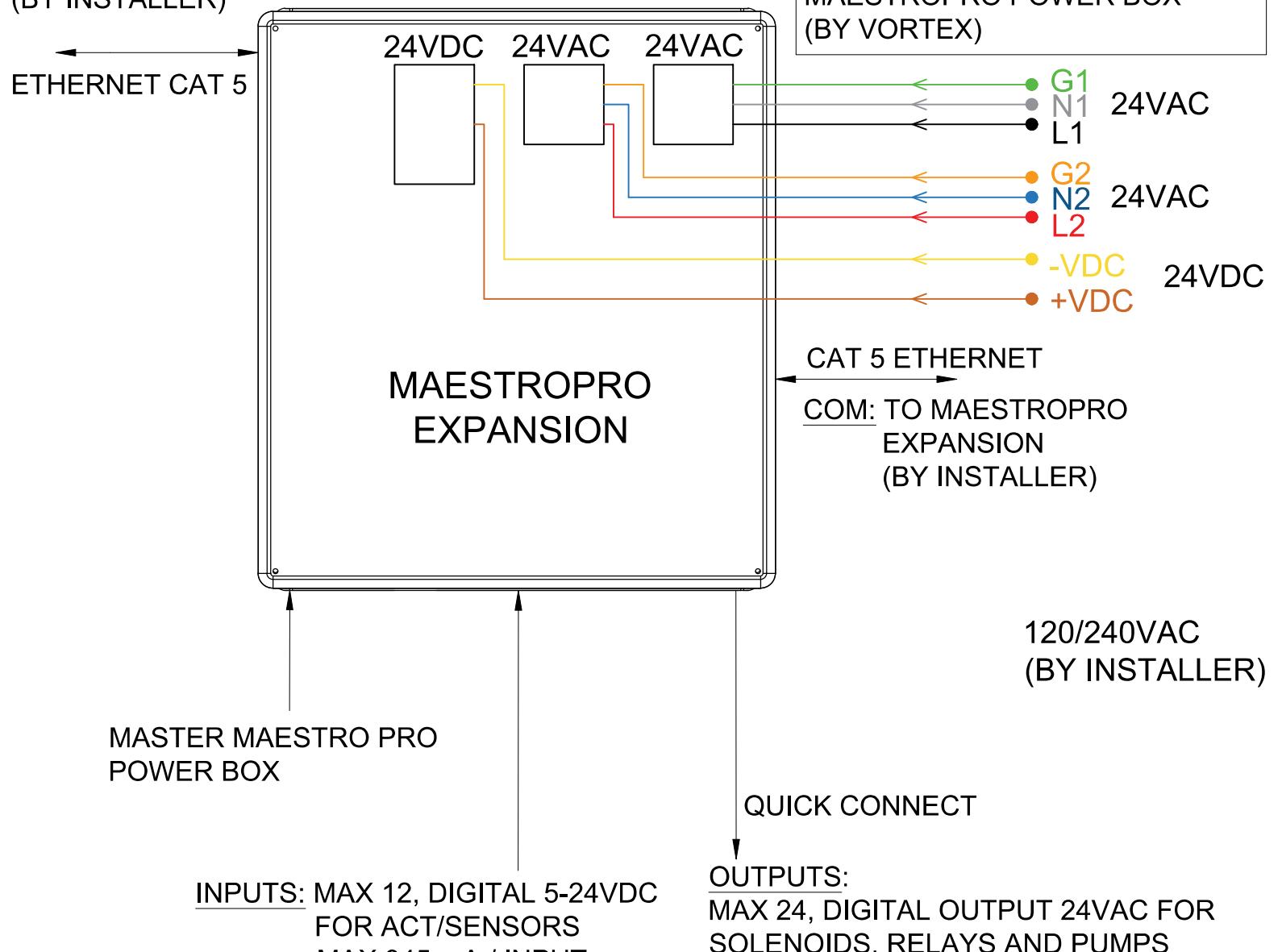


INSTALLATION DRAWING - MAESTROPRO EXPANSION UNIT 33907.22B2 AND MAESTROPRO POWER BOX 33907.13BX CONNECTIONS

NOTE:

1 - ALL COMMENTS ARE THE SAME AS PAGE 2

FROM MAESTRO PRO MASTER
OR PREVIOUS EXPANSION UNIT
(BY INSTALLER)



DIP SWITCH OPTIONS:

BIT 3	0	1
BIT 2	0	1
BIT 1	0	1

EXPANSION 1:	BIT 1_0	BIT 2_0	BIT 3_1
EXPANSION 2:	BIT 1_0	BIT 2_1	BIT 3_0
EXPANSION 3:	BIT 1_0	BIT 2_1	BIT 3_1
EXPANSION 4:	BIT 1_1	BIT 2_0	BIT 3_0

CIRCUIT BREAKER & FUSE	AMPS MAX	CIRCUIT
MAIN BREAKER; 3 AMPS	4 MAX	PRIMARY 120/240 VAC
FUSE 1; 5 AMPS	5 MAX	SECONDARY 24 VAC
FUSE 2; 5 AMPS	5 MAX	SECONDARY 24 VAC
FUSE 3; 5 AMPS	5 MAX	POWER SUPPLY 24 VDC

— L1 (LINE)
 — L2 (LINE)
 — G1 (GROUND)
 — G2 (GROUND)

— N1 (NEUTRAL)
 — N2 (NEUTRAL)
 — +VDC
 — -VDC



VOR 1004 PLAYSAFE™ DRAIN N°4

PRODUCT HIGHLIGHTS

- 22" diameter cover with new design
- 6" diameter drainage pipe
- 240 GPM drainage capacity
- 3 adjustable levelling anchors
- Optional strainer available (33400.2100)

SPECIFICATIONS

Grate Color
Blue RAL 5017

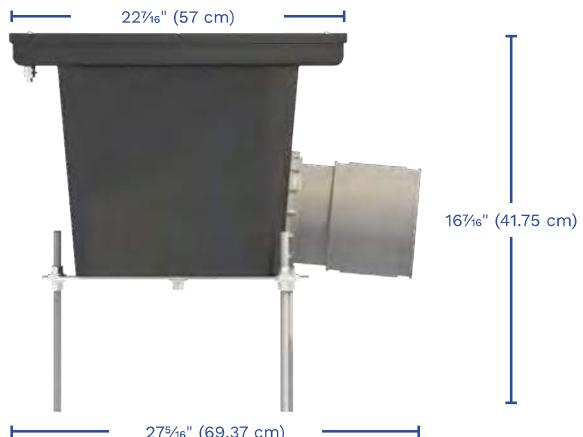
H./W./L.
16 $\frac{7}{16}$ / 27 $\frac{5}{16}$ / 22 $\frac{7}{16}$ in
41.75/69.37/57 cm

Flow

Recommended 240 GPM (300 GPM max)
Recommended 908 LPM (1135 LPM max)

Dia. Cover plate

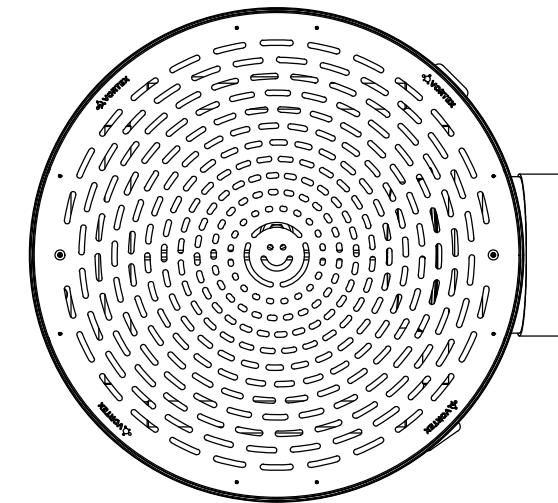
22 in / 55.88 cm



PLAN VIEW

Note:

1- Cover plate must be install during concrete pouring.



STRAINER BASKET
PART #: 33400.2100
STAINLESS STEEL 304 | THICKNESS: 14 GA
SQUARE OPENINGS: 0.15" (3.8mm)
(SOLD SEPARATELY)

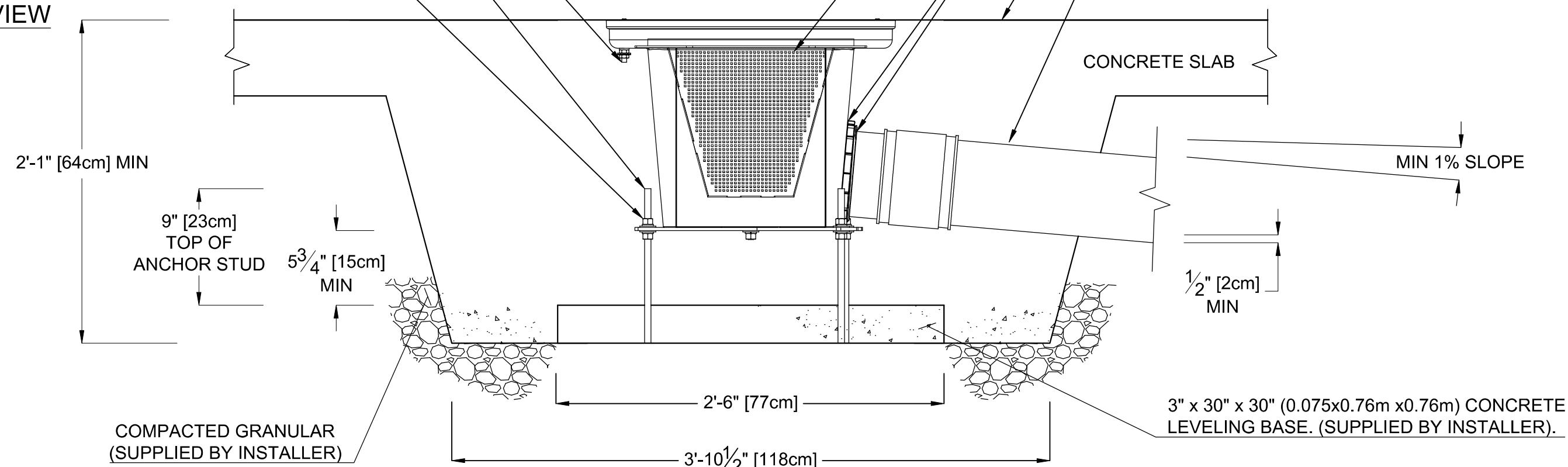
$\frac{3}{8}$ " (10mm) BONDING STUD
ANCHORING SYSTEM TO BE INSTALLED LEVEL, PLUMB & FLUSH TO FINISHED GRADE(BY INSTALLER)
3 X 1/2" (13mm) S.S. HEIGHT & LEVELING CONTROL ANCHOR STUDS WITH HARDWARE.(BY VORTEX)
DRILL & EPOXY GROUT STUDS (DONE BY INSTALLER)

ADD SIKAFLEX MARINE GRADE SILICONE SEALANT ON THE OUTSIDE AND ON THE INSIDE:
- BETWEEN DRAINAGE BOX & SEAL
- BETWEEN SEAL & SUPPLIED 6" PIPE

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

WATER LINE OUTLET 6" (152mm). MIN. 1% SLOPE.
(LINE CONNECTION SUPPLIED BY INSTALLER)

FRONT ELEVATION VIEW



VOR-1004.4000 PLAYSAFE DRAIN, No4 (Construction Detail)

PRODUCT NAME: PLAYSAFE DRAIN, No4

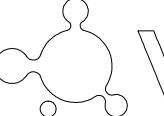
PRODUCT INFORMATION

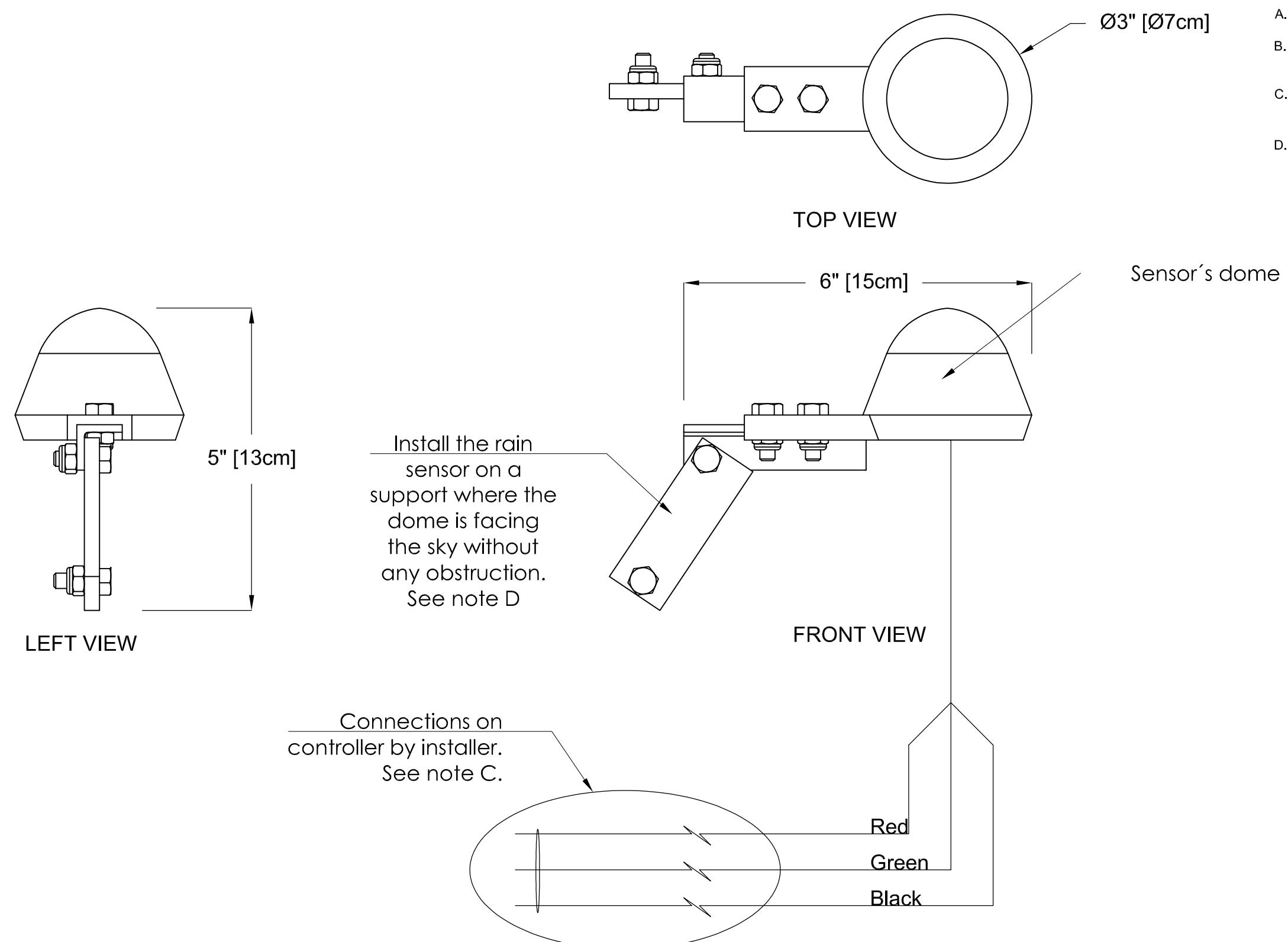
PRODUCT NUMBER: VOR-1004.4000

DATE: 10/23/20

SHEET NO: 1/1

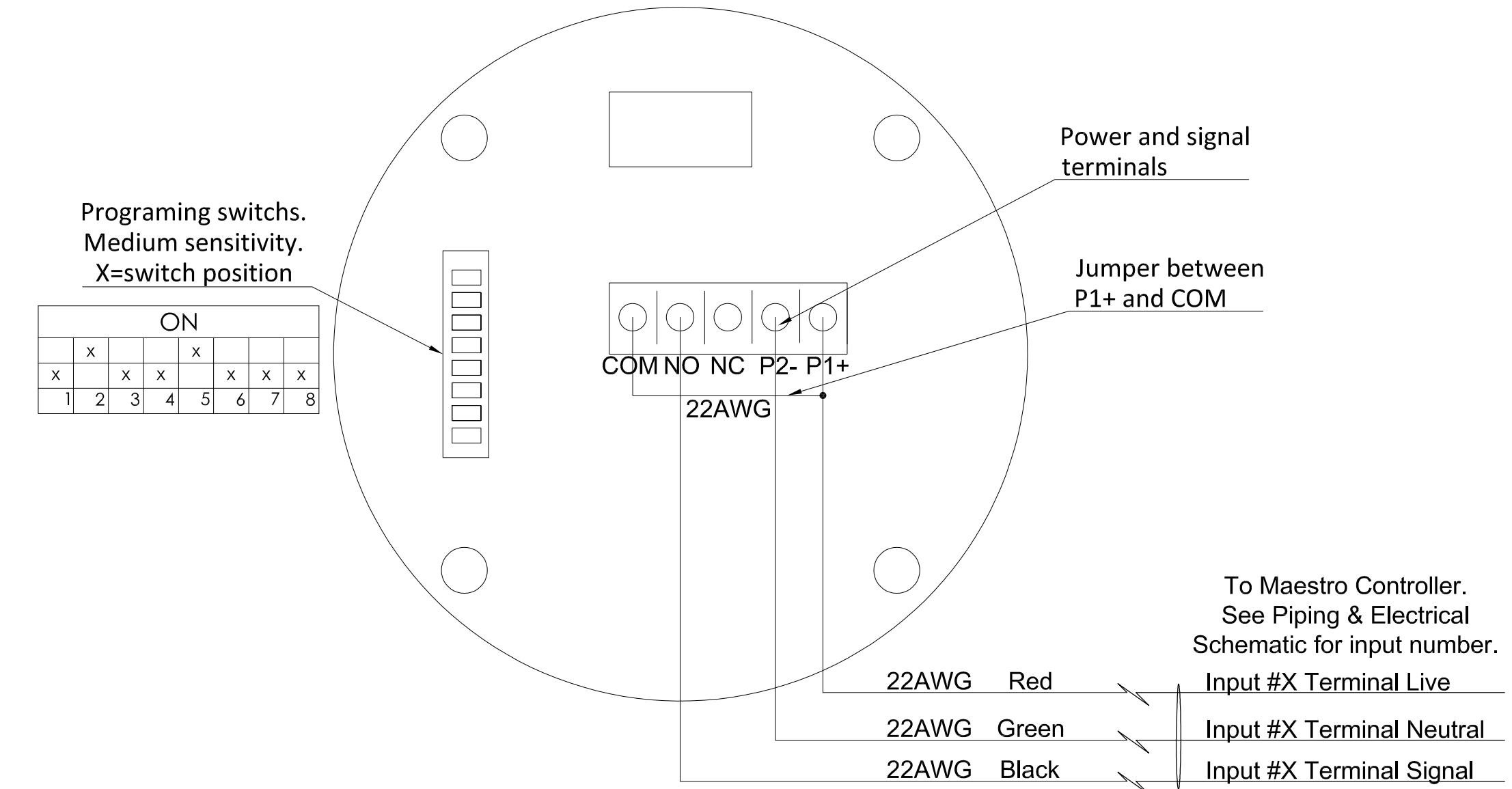
11"x17" SHEET SIZE

 VORTEX



NOTES:

- A. REFER TO P&E DRAWINGS FOR PIPE SIZES, QUANTITY AND ELECTRICAL CONNECTIONS.
- B. "BY INSTALLER" MAY REFER TO SERVICE PROVIDERS OTHER THAN EQUIPMENT MANUFACTURER. PLEASE REFER TO THE PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.
- C. USE 3 CONDUCTORS 16AWG CABLE SOOW FOR A MAXIMUM OF 100 FEET DISTANCE, SEE SHEET 2 FOR WIRING CONNECTION INSIDE THE OPTICAL RAIN SENSOR AND MAESTRO CONTROLLER.
- D. $\frac{1}{4}$ " NYLON LOCK NUT AND BOLT PROVIDED.



200-WS-0x WeatherPort Series

WeatherPort Wind Sensors are moderately priced quality transducers designed for general applications up to 125 mph (56 m/s). The sensors are easy to install and maintain. They are constructed of injection molded thermoplastic, anodized aluminum, and stainless steel for reliable operation in adverse environments.

Wind Speed and Wind Run

The **200-WS-01** is a cup-style anemometer. One or more permanent magnets in the rotating cup assembly cause a reed switch in the base to close momentarily, so that the frequency of pulses is proportional to wind velocity, and the number of pulses is proportional to distance.

- **Wind speed** sensors output 3 pulses per revolution (3 ppr).
- **Wind run** sensors output 1 pulse per revolution (1 ppr).



Wind Direction

The **200-WS-04** is a vane-style direction sensor. The wind vane is coupled to a 20K ohm single turn potentiometer. When connected to a well-regulated voltage source the output voltage of the sensor is proportional to the wind direction and can be read by a single-ended analog input channel.



Wind Speed and Direction

The **200-WS-02** combines two sensors into one compact in-line unit. Wind speed is output at the rate of 3 pulses per revolution, while the direction is measured by a 20k ohm potentiometer.



Ordering Information

Wind Run

200-WS-01B-C1 Wind Run Sensor, 1ppr, 40' cable
200-WS-01C Wind Run Sensor, 1ppr, 1' cable

Wind Speed

200-WS-01A Wind Speed Sensor, 3ppr, 40' cable (cable exits through base)
200-WS-01B Wind Speed Sensor, 3ppr, 40' cable
200-WS-01B-TS Wind Speed Sensor, 3ppr, 40' cable, Teflon bearing
200-WS-01MB Wind Speed Sensor, 3ppr, 40' cable, Aluminum base



Wind Direction

200-WS-04 Wind Direction Sensor, 40' cable

Wind Speed and Direction

200-WS-02E Wind Speed and Direction Sensor, 3ppr, 40' cable
200-WS-02F Wind Speed and Direction Sensor, 3ppr, 40' cable

Mounting Arm

200-153 Wind Sensor Mounting Arm

200-153 Mounting Arm

Anemometer Specification

Measurement Range	125 mph max (56 m/s max)
Speed Threshold	1.2 mph (0.54 m/s) <i>Except Model 200-WS-01B-TS, which has a slightly higher starting threshold due to a characteristic of the Teflon bearing.</i>
Speed Accuracy (3 ppr)	1 mph (0.4470 m/s) or $\pm 3\%$
Speed Constant (3 ppr)	1.25 mph = 1 Hz (0.5588 m/s = 1 Hz)
Distance Constant (1 ppr)	960 pulses per mile (596.5 pulses per km) 0.001042 miles per pulse (0.001676 km per pulse)
Transducer Type	Reed switch, magnet activated
Maximum Rating	10 mA @ 50 V (ac or dc)
Turning Radius	4 inch (10.16 cm)

Wind Vane Specification

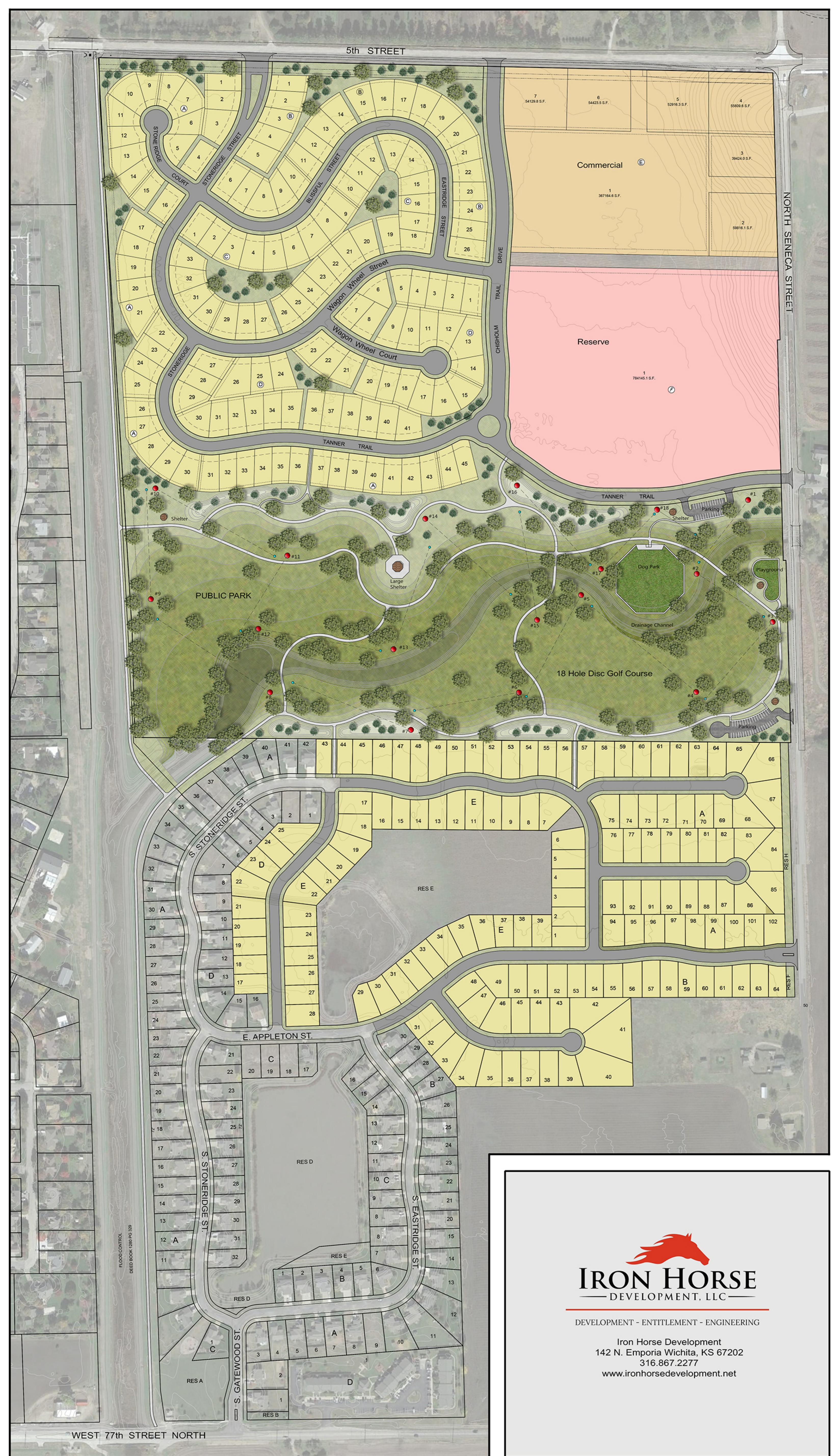
Measurement Range	0-360 degree azimuth
Potentiometer Gap	5 degree (approximate)
Accuracy	± 3 degrees
Vane Threshold	1.2 mph (0.5364 m/s)
Distance Constant	1.5 feet (45.72 cm)
Time Constant	2 seconds
Damping Ratio	0.4
Transducer Type	20k ohm, 20% tolerance, 1% linearity, bushing type bearing
Maximum Rating	1/4 watt
Turning Radius	10.5 inch (26.67 cm)

Overall Specification

Cable	40 feet (12 m), 24 AWG, shielded, tinned leads <i>Except Model 200-WS-01C, which has 1' (0.3 m) hookup wire.</i>
Mounting	1.07 inch diameter by 0.82 inch socket (27 mm dia x 21 mm) <i>Note: Standard 3/4" IPS pipe is 1.05" o.d. and fits the socket.</i>
Assembled Dimensions	200-WS-01: 4.5" H x 8.2" W x 8.2" D (12 x 21 x 21 cm) 200-WS-02: 12.0" H x 15.2" W x 8.2" D (31 x 39 x 21 cm) 200-WS-04: 11.4" H x 15.2" W x 1.6" D (29 x 39 x 4 cm)
Weight / Shipping	200-WS-01: 0.95 lbs (0.43 kg) / 2 lbs (0.9 kg) 200-WS-02: 1.95 lbs (0.88 kg) / 3 lbs (1.4 kg) 200-WS-04: 1.65 lbs (0.75 kg) / 2 lbs (0.9 kg)

Repair Kits:

2502-14-01B	3-magnet wind cup assembly for wind speed sensors
2502-14-01C	1-magnet wind cup assembly for totalizing anemometers
200-WS-02B-ASSY	3-magnet wind cup and potentiometer assembly
200-WS-02E-ASSY	3-magnet wind cup and potentiometer assembly
200-WS-02F-ASSY	3-magnet wind cup and potentiometer assembly
200-WS-02G-ASSY	3-magnet wind cup and potentiometer assembly



IRON HORSE DEVELOPMENT, LLC

DEVELOPMENT - ENTITLEMENT - ENGINEERING

Iron Horse Development
142 N. Emporia Wichita, KS 67202
316.867.2277
www.ironhorsedevelopment.net



Geographic Information Services
Sedgwick County...
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Date: 11/2/2023

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Sunflower Valley Trail 1.5 miles

Sedgwick County, Kansas

