

98 1/8" [249.27cm] 230 11/16" [585.88cm]

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ELECTRICAL NOTES: 1) NO LIVE ELECTRICAL CONNECTION TO BE DONE. SOLAR BATTERY SYSTEM IN OPERATION.

UNTIL IT'S RECHARGED TO 20% (3-5 SUNNY HOURS).

OPTIMAL SOLAR ORIENTATION (DONE BY OTHERS):

 SOUTH FACING FOR NORTH OF THE EQUATOR NORTH FACING FOR SOUTH OF THE EQUATOR

AVOID SHADOW AREAS FOR INSTALLATION

ABRIO OPTIONS :

STEP-BY-STEP INSTRUCTIONS.

4) DRAINAGE SOLUTIONS ARE OPTIONAL AND UNDER THE RESPONSABILITY OF THE INSTALLER. 5) ABRIO PRODUCTS ARE ASSEMBLED ON-SITE BY INSTALLER. REFER TO ASSEMBLY GUIDE FOR

3) USE ANTI-SEIZE ON ALL THREADS.

1) "BY OTHERS" MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY. 2) PIPE LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.

GENERAL NOTES:

2) FAILURE TO FOLLOW VORTEX APPLICATION GUIDELINES, DRAWINGS, WIRING DIAGRAM & CABLE SPECIFICATIONS WILL VOID PRODUCT WARRANTY.

3) IF YOU HAD SEVERAL DAYS WITHOUT SUN (3 OR MORE), THE SYSTEM WILL GO TO A SLEEP MODE, WHICH WILL SHUTDOWN THE SYSTEM TO PROTECT THE CONTROLLER AND THE BATTERY

> ALL ANCHOR PLATES AND LEGS MUST BE INSTALLED AT THE SAME LEVEL. USE NON-SHRINK GROUT TO LEVEL. DONE BY OTHERS)

• VORTEX VORTEX AQUATIC STRUCTURES INTL 7800 Autoroute Trans Canadienne Pointe Claire (Montreal) Québec, Canada H9R 1C6 Toll-free:1.877.5VORTEX www.vortex-intl.com

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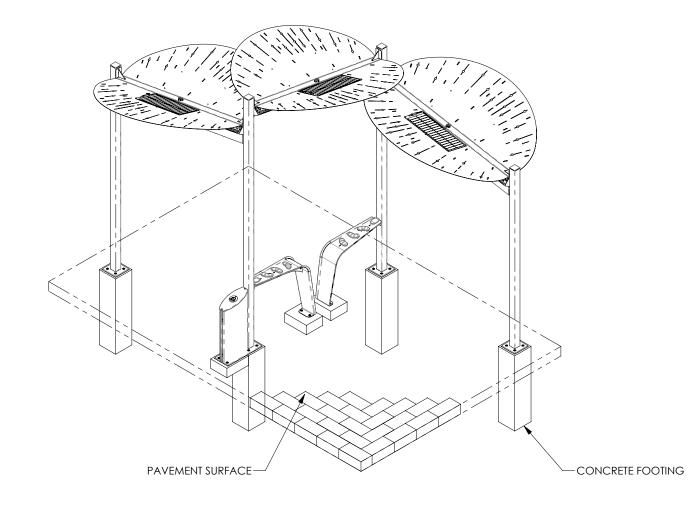
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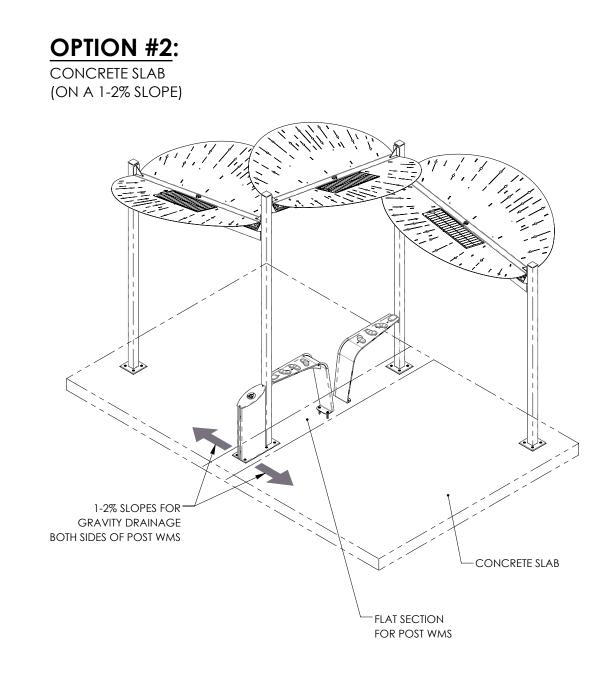
INSTALLATION OPTIONS

OPTION #1:

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PAVEMENT SURFACE WITH CONCRETE FOOTINGS (PERMEABLE OR ON A 1-2% SLOPE)





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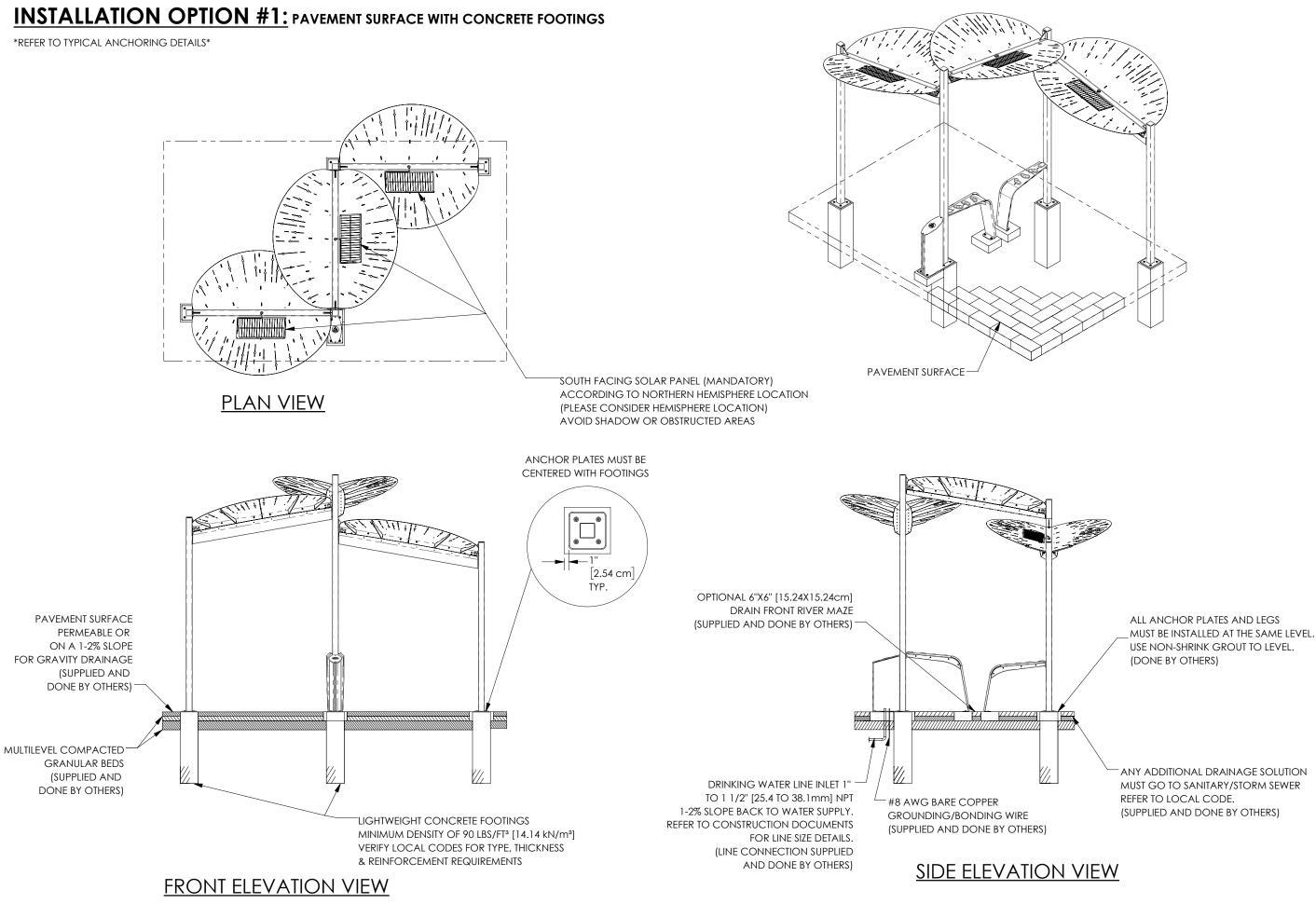
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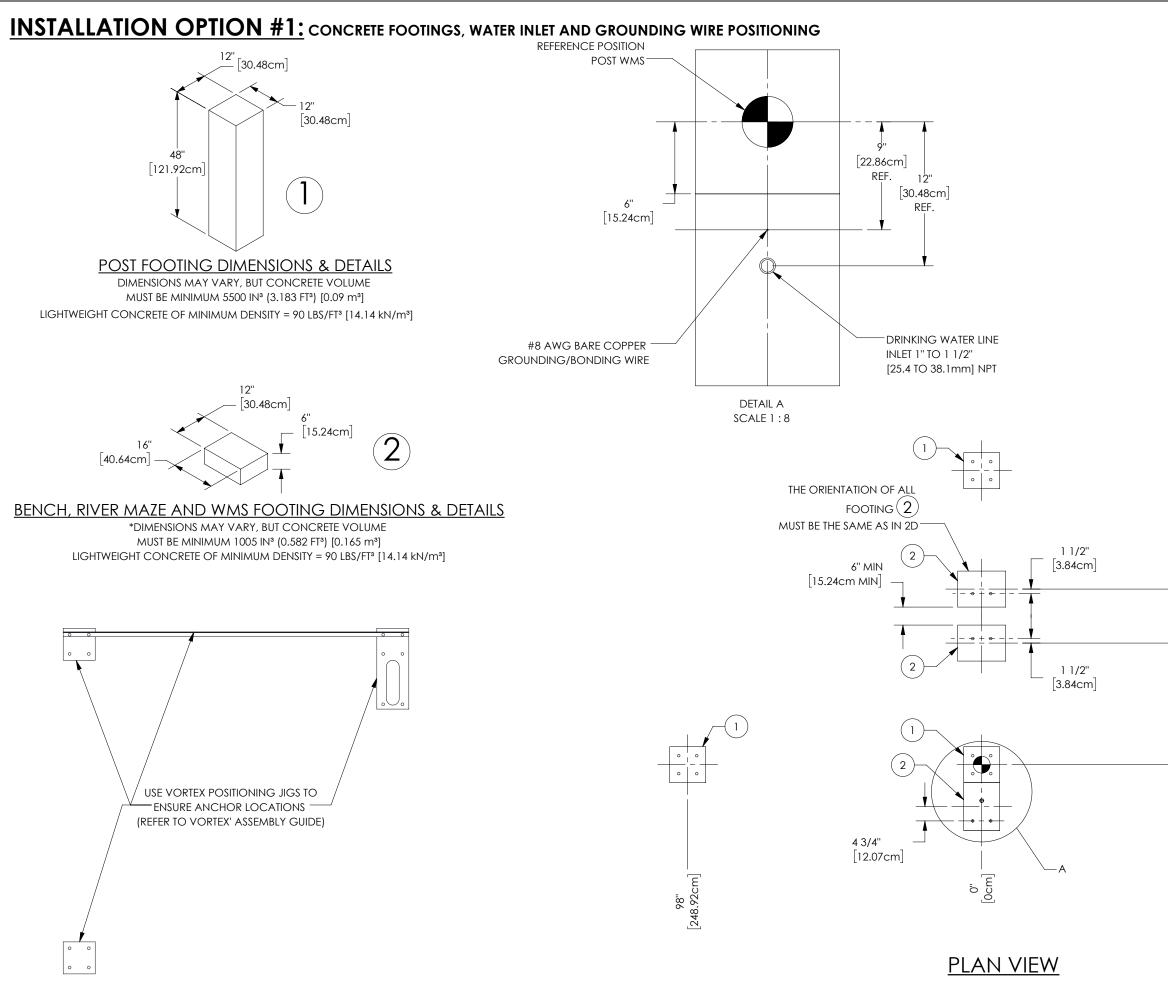
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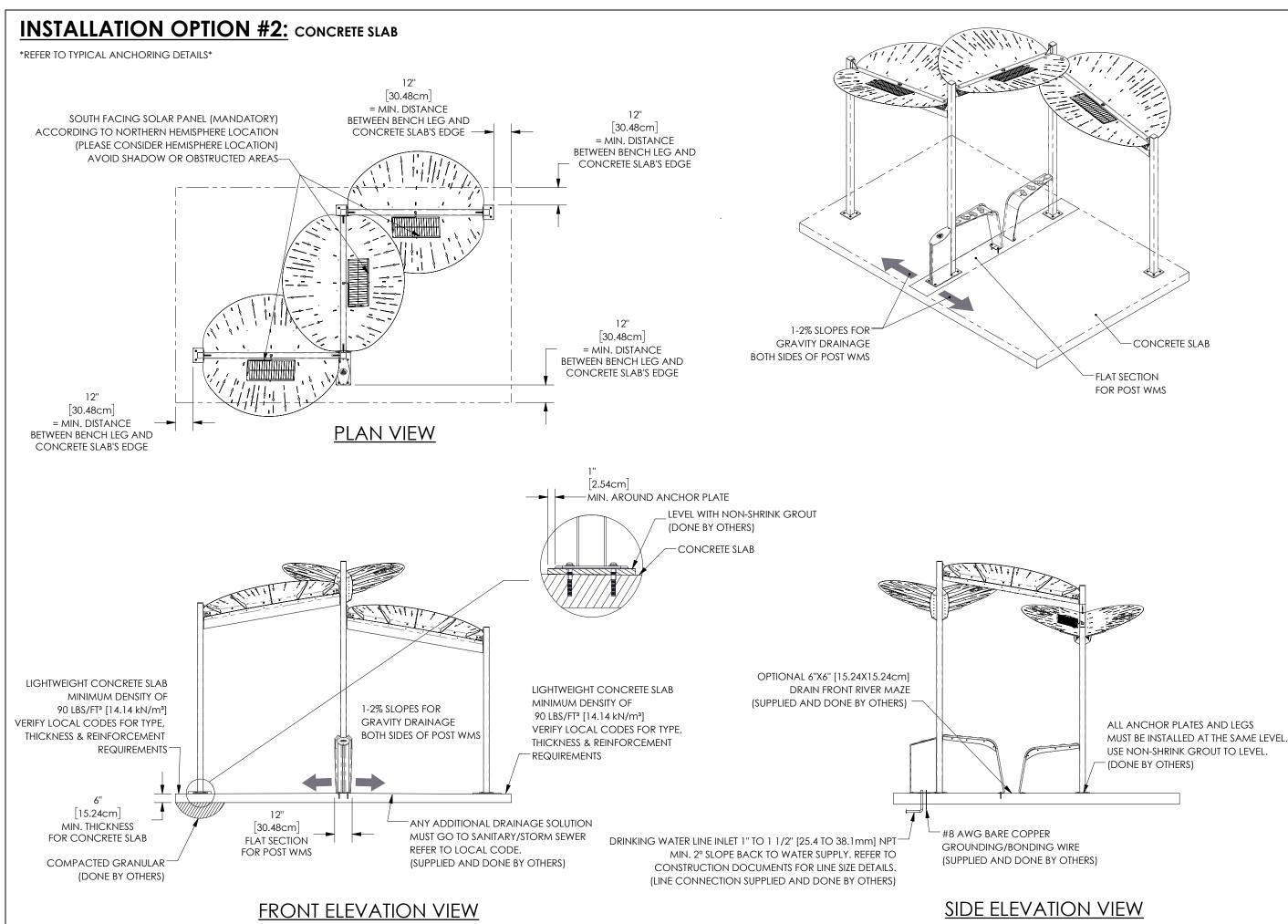


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|-------------------|--|--|
| | | OR 3502B VING |
| | 98" [248.92cm] | DRAV |
| | 58 1/2" [148.66cm] 40 1/2" [102.94cm] | VOR 350 LATION |
| | 0" [0cm] | ABRIO 02 - V INSTALL |
| 98" [248.92cm] | | Page 4 of 8 |

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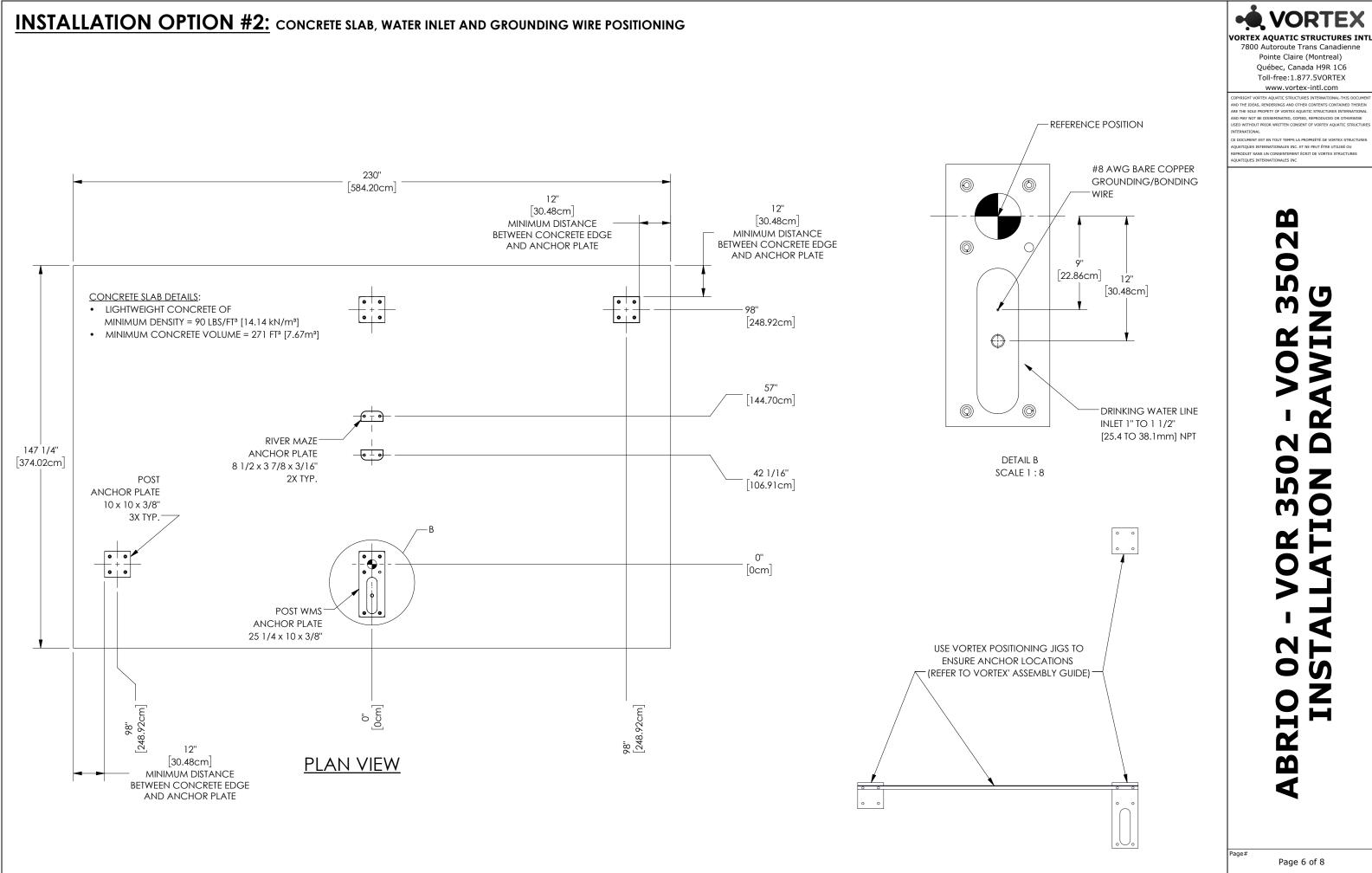
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POSTS TYPICAL ANCHORING STEPS (DONE BY OTHERS)

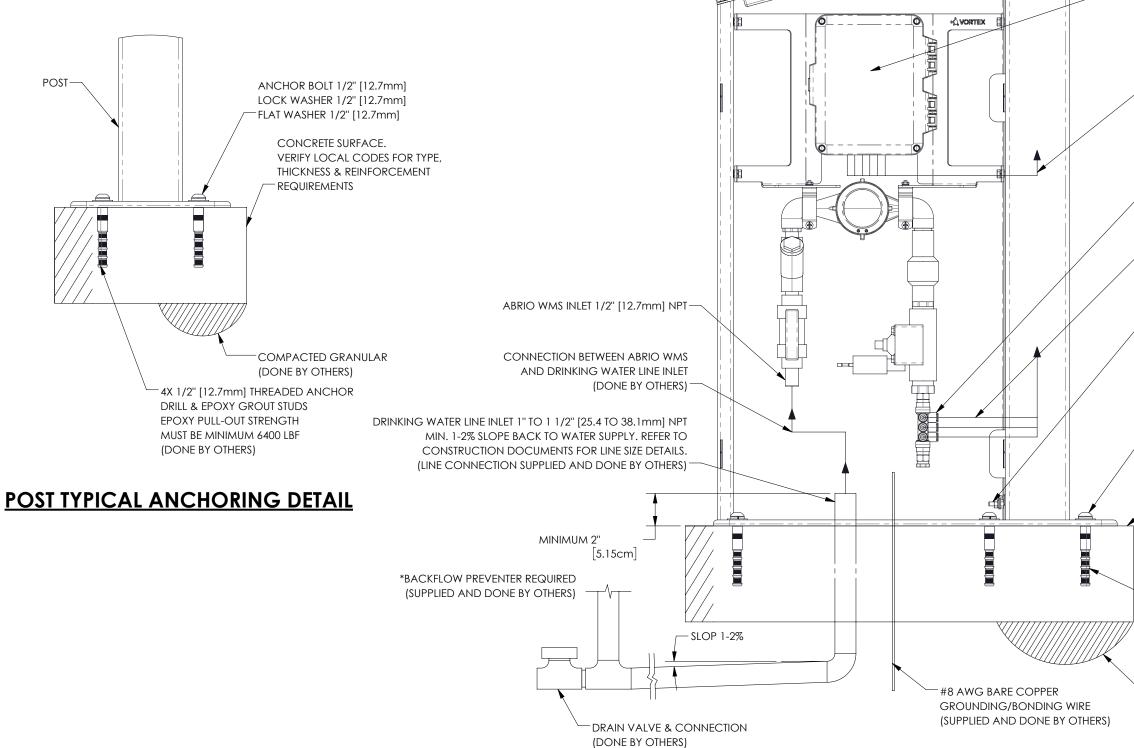
REFER TO ANCHORING POSITIONS PAGE AND VORTEX' ASSEMBLY GUIDE

1. PLACE ANCHORING JIGS AS DETAILED IN THE VORTEX' ASSEMBLY GUIDE

- 2. MARK ON CONCRETE FOOTING OR SLAB, THE POST'S ANCHORING HOLES' POSITIONS.
- 3. DRILL ON HOLES' MARKINGS WITH 3/4" DRILL BIT SIZE.
- 4. CLEAN THE DRILLED HOLES.

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- 5. PUT ANCHORS IN HOLES WITH EPOXY (EPOXY ANCHORING ADHESIVE PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF)
- 6. WAIT FOR EPOXY'S CURING TIME
- ASSEMBLE THE POSTS AS PER VORTEX' ASSEMBLY GUIDE.



POST WMS TYPICAL ANCHORING DETAIL

Page#

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6X 1/2" [12.7mm] THREADED ANCHOR DRILL & EPOXY GROUT STUDS EPOXY PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF (DONE BY OTHERS)

COMPACTED GRANULAR

(DONE BY OTHERS)

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

ANCHOR BOLT 1/2" [12.7mm] LOCK WASHER 1/2" [12.7mm] FLAT WASHER 1/2" [12.7mm]

1/4" [6.35mm] EARTH - GROUDING STUD

TUBES CONNECTION TO MANIFOLD USING SUPPLIER CONNECTORS (DONE BY OTHERS)

ABRIO WMS 6 PORTS MANIFOLD OUTLET FOR 5/16" [7.94mm] TUBES

CABLES CONNECTION TO LED LIGHTS AND SOLAR PANELS USING SUPPLIED CONNECTORS – (DONE BY OTHERS)

-- MICROFLOW CONTROLLER

-POST WMS

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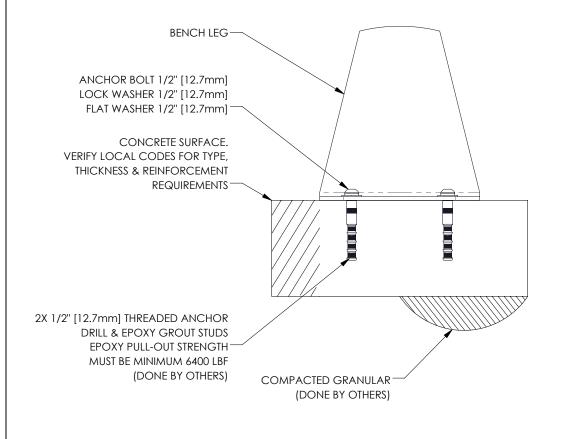
BENCH TYPICAL ANCHORING STEPS (DONE BY OTHERS):

- PLACE BENCH ON POST BRACKET. 1.
- 2. MARK ON CONCRETE FOOTING OR SLAB, THE BENCH LEG ANCHORING HOLES' POSITIONS.
- 3. REMOVE BENCH.

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- 4. DRILL ON HOLES' MARKINGS WITH 3/4" DRILL BIT SIZE.
- CLEAN THE DRILLED HOLES. 5.
- PUT ANCHORS IN HOLES WITH EPOXY (EPOXY ANCHORING ADHESIVE 6. PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF)
- 7. WAIT FOR EPOXY'S CURING TIME
- ASSEMBLE THE BENCH AS PER VORTEX' ASSEMBLY GUIDE. 8.

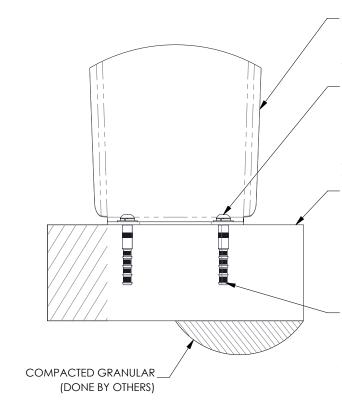
BENCH TYPICAL ANCHORING DETAIL



RIVER MAZE TYPICAL ANCHORING STEPS (DONE BY OTHERS):

- ASSEMBLE RIVER MAZE ON POST, USING SUPPLIED HARDWARE. 1.
- MARK ON CONCRETE FOOTING OR SLAB, THE RIVER MAZE LEG ANCHORING HOLES' 2. POSITIONS.
- REMOVE RIVER MAZE. 3.
- DRILL ON HOLES' MARKINGS WITH 3/4" DRILL BIT SIZE. 4.
- 5. CLEAN THE DRILLED HOLES.
- PUT ANCHORS IN HOLES WITH EPOXY (EPOXY ANCHORING ADHESIVE 6. PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF)
- WAIT FOR EPOXY'S CURING TIME 7.
- ASSEMBLE THE RIVER MAZE AS PER VORTEX' ASSEMBLY GUIDE. 8.

RIVER MAZE TYPICAL ANCHORING DETAIL



-RIVER MAZE BODY

ANCHOR BOLT 1/2" [12.7mm] LOCK WASHER 1/2" [12.7mm] FLAT WASHER 1/2" [12.7mm]

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

2X 1/2" [12.7mm] THREADED ANCHOR DRILL & EPOXY GROUT STUDS EPOXY PULL-OUT STRENGTH MUST BE MINIMUM 6400 LBF (DONE BY OTHERS)

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