LOCUS MAP

NOT TO SCALE



SHEET SCHEDULE

L-1.0	COVER SHEET
L-1.1	OVERALL SITE PLAN
L-2.0	EXISTING CONDITIONS/DEMO PLAN A
L-2.1	EXISTING CONDITIONS/DEMO PLAN B
L-3.0	GRADING PLAN A
L-3.1	GRADING PLAN B
L-4.0	MATERIALS PLAN A
L-4.1	MATERIALS PLAN B
L-5.0	LAYOUT PLAN A
L-5.1	LAYOUT PLAN B
L-6.0	SPRAY PAD PLAN
L-7.0	PLANTING PLAN A
L-7.1	PLANTING PLAN B
L-8.0	IRRIGATION PLAN
L-9.0	DETAILS
L-9.1	DETAILS
L-9.2	DETAILS
L-9.3	DETAILS
L-9.4	DETAILS
L-9.5	DETAILS
L-9.6	DETAILS
PE-000	VORTEX NOTES
PE-001	VORTEX PLUMBING & ELECTRICAL LAYOUT
E-003	VORTEX BONDING LAYOUT

DEMOLITION PLAN GENERAL NOTES

- 1. ALL SITE PREPARATION NECESSARY TO COMPLETE THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH PROVIDENCE PARKS DEPARTMENT STAFF TO DEVELOP A SUITABLE DEMOLITION PLAN, WHICH WILL MINIMIZE PARK DISTURBANCE AND ALLOW ALL FACILITIES TO REMAIN IN OPERATION DURING THE ENTIRETY OF CONSTRUCTION.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION, DEMOLITION, REMOVAL AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL EXISTING SITE ELEMENTS AND STRUCTURES INCLUDING BUT NOT LIMITED TO BITUMINOUS CONCRETE, CEMENT CONCRETE, GRAVEL, CURBS, WALKWAYS, SIDEWALKS, BERMS, FENCES, BOLLARDS, POSTS, PLANTING BEDS, TREES, SHRUBS, UTILITIES DRAINAGE STRUCTURES AND ALL OTHER STRUCTURES SHOWN WITHIN THE LIMITS, AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION. ALL ELEMENTS TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER SPECIFICATIONS. 4. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND
- 5. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND.OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE CITY, AND "DIGSAFE" (1-800-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE CONFLICTS BETWEEN THE PROPOSED UTILITIES AND FIELD-LOCATED UTILITIES AND SHALL REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY. THE OWNER ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED, INCOMPLETELY OR INACCURATELY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCURATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED AND EXISTING UTILITIES FOUND DURING CONSTRUCTION FOR THE PREPARATION OF THE AS-BUILT PLAN.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING UTILITIES IN WORKING ORDER AND FREE FROM DAMAGE DURING THE ENTIRE DURATION OF THE PROJECT. ALL COST RELATED TO THE REPAIR OF UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINE OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- 7. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS AND OPERATION FOR SURROUNDING FACILITIES, AS DEEMED BY THE OWNER, AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- 8. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES AND TREE PROTECTIVE MEASURES ARE TO BE INSTALLED.

EROSION & SEDIMENT CONTROL NOTES

- 1. THE SITE CONSTRUCTION FOREMAN SHALL BE DESIGNATED AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL ESC MEASURES AND SHALL IMPLEMENT ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
- 2. THE CONTRACTOR SHALL INSTALL ALL ESC MEASURES AS SHOWN ON THE DESIGN PLANS AND AS DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE BEFORE ANY CONSTRUCTION ACTIVITIES ARE TO BEGIN. THESE MEASURES SHALL BE CHECKED, MAINTAINED/REPLACED AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. SUCH MEASURES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGH THE CONSTRUCTION PERIOD.
- 3. A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT FENCE&/OR SILT SOCK) SHALL BE STOCKPILED ONSITE AT ALL TIMES.
- 4. THE CONTRACTOR SHALL PROTECT THE ADJACENT AREA FROM SEDIMENTATION DURING PROJECT CONSTRUCTION OPERATIONS.
- 5. A CONSTRUCTION EXIT SHALL BE CONSTRUCTED TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. THE CONSTRUCTION EXIT SHALL BE REPLACED/CLEANED AS NEEDED TO MAINTAIN ITS EFFECTIVENESS.
- 6. THE LIMIT OF ALL CLEARING, GRADING AND DISTURBANCES SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH WILL LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, THE CONTRACTOR SHALL USE THEIR BEST PROFESSIONAL JUDGEMENT AND SHALL BE RESPONSIBLE FOR ENSURING THAT NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
- SOIL ESC MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT THE ESC MEASURES ARE INTACT AND FUNCTIONING PROPERLY. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY NO LATER THAN 24 HOURS AFTER IDENTIFICATION.

PROVIDENCE, RI SITE IMPROVEMENTS **AT RICHARDSON PARK**

HONORABLE **BRETT P. SMILEY** MAYOR

WENDY NILSSON SUPERINTENDENT OF PARKS PEDRO ESPINAL CITY COUNCILOR

DISPOSING OF THE DEBRIS IN A PROPER AND LEGAL MANNER.

9.	SOIL STOCKPILES LEFT OVERNIGHT SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SILT SOCK.	I
10.	DISTURBED AREAS AND SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHOULD PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEADORADILY	
	OR PERMANENTLY CEASED. TEMPORARY AREAS HAVING A SLOPE GREATER THAN 3:1 SHALL BE REINFORCED WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE.	(
1.	THE CONTRACTOR SHALL CONTAIN ALL SEDIMENT ONSITE. ALL EXITS FROM THE SITE WILL BE SWEPT AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. PAVED AREAS SHALL BE SWEPT AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS WHICH MAY ACCUMULATE DURING SITE WORK.	Į
12.	ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ESC MEASURES AND DISPOSED OF IN A	
13.	DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY.	Р
G	ENERAL CONSTRUCTION NOTES	1
1.	INFORMATION FOR THE EXISTING CONDITIONS PLAN WAS OBTAINED FROM GIS, AERIAL IMAGERY, FIELD OBSERVATION, AND A 2023 SURVEY BY CATALDO ASSOCIATES, INC. ALL EXISTING CONDITIONS ARE TO BE CONSIDERED APPROXIMATE. THIS IS NOT A REGISTERED SURVEY.	2
2.	ANY ERRORS OR DISCREPANCIES ON THE DRAWINGS, SHOP DRAWINGS, AND DETAILS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE THE WORK HAS COMMENCED.	2
3.	THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL LOCATIONS AND DIMENSIONS. DISCREPANCIES BETWEEN LAYOUT DIMENSIONS ON PLANS AND ACTUAL MEASUREMENTS IN FIELD ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE BEFORE CONSTRUCTION BEGINS.	6 7
4.	THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO DEMOLITION OR INSTALLATION OF ANY PORTION OF THE SITE WORK .	
5.	THE CONTRACTOR SHALL STAKE OUT ALL LAYOUTS OF PROPOSED WORK FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.	8
6.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS DURING CONSTRUCTION INCLUDING BENCHMARK LOCATIONS AND ELEVATIONS AT CRITICAL AREAS. THE LOCATION OF ALL CONTROL POINTS AND BENCHMARKS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.	ç
7.	UNLESS OTHERWISE SPECIFIED ON THE PLANS AND DETAILS/SPECIFICATIONS, ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE MOST RECENT VERSION OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2015 EDITION).	1
8.	CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING NOISE, VIBRATION, DUST, SEDIMENTATION CONTAINMENT, AND TRENCH WORK.	1
9.	THE CONTRACTOR SHALL RESTORE ALL SURFACES EQUAL TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE. AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO SHRUBS, TREES, AND OTHER LANDSCAPING OR NATURAL FEATURES, WHEREAS THE PLANS DO NOT SHOW ALL LANDSCAPING FEATURES. EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE WORK.	1
10.	ALL UNPAVED AREAS DISTURBED BY THE WORK SHALL HAVE A MINIMUM OF 4-INCHES OF LOAM INSTALLED AND SEEDED WITH GRASS SEED AS SHOWN ON THE PLAN AND/OR DIRECTED BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ANY LOAM AND SEEDED AREAS UNTIL LAWN GROWTH IS ESTABLISHED AND	1
11.	THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP	1
	DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO AN APPROVED DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.	1
12.	CONCRETE TRUCKS SHALL NOT BE WASHED ONSITE. ANY CEMENT OR CONCRETE DEBRIS LEFT IN THE DISTURBED AREA SHALL BE REMOVED BY HAND AT THE CONTRACTOR'S EXPENSE.	2
13.	IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR IS TO IMMEDIATELY CONTACT AND COORDINATE WITH THE LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE.	
14.	AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIAL FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE.	2
15.	THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SITE FOR THE SAFETY OF THE GENERAL PUBLIC AND TO PROTECT PROPERTY AGAINST VANDALISM AND THEFT.	
16.	THE CONTRACTOR MUST OBTAIN ALL REQUIRED CITY, STATE AND FEDERAL PERMITS.	

17. THE PROVIDENCE PARKS DEPARTMENT ASSUMES NO RESPONSIBILITY IF THE WORK IS NOT INSTALLED AS PER THE PLANS OR IF FIELD CHANGES ARE MADE WITHOUT THE KNOWLEDGE AND APPROVAL OF THE OWNER'S REPRESENTATIVE.

ISSUED FOR BID 10/21/24

LAYOUT NOTES

- ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH HEY ARE MEASURED UNLESS OTHERWISE INDICATED.
- STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE ON AND WITHIN LIMITS OF WORK AS SHOWN ON THE PLANS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE PLAN TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING VORK.
- ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- ALL PLACEMENT OF SITE FURNISHINGS, BOULDERS, PLAY STRUCTURES AND OUTDOOR ITNESS EQUIPMENT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO **NSTALLATION.**

NTING NOTES

- ALL NEW PLANT MATERIALS SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED OR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY. ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS
- DTHERWISE NOTED ON THE PLANT LIST. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF QUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE JURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING
- AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT. STAKE LOCATIONS OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING. INDIVIDUAL STAKES SHALL BE
- PLACED FOR TREES AND SHRUBS. EDGE OF PLANTING BEDS SHALL BE PAINTED. NOTIFY ANDSCAPE ARCHITECT 24 HOURS PRIOR TO DESIRED APPROVAL. ALL NEW PLANTS SHALL BE SUPPLIED AND INSTALLED DURING THE PERIODS OF APRIL 1 -
- UNE 15 AND/OR SEPTEMBER 1 NOVEMBER 15 PER SPECIFICATIONS. REPARE ALL INDIVIDUAL TREE PITS AND SHRUB PLANTING BEDS TO A MINIMUM DEPTH OF IGHTEEN INCHES (18") WITH SPECIFIED PLANTING MIX: 50% SCREENED TOPSOIL, 40% XISTING SOIL AND 10% COMPOST. BLEND COMPOST INTO TOP 4" OF SOIL. PLANTING MIX
- SHALL BE FREE OF LUMPS, STONES, PLANTS, ROOTS, AND OTHER FOREIGN MATTER. ALL SHRUB BEDS AND INDIVIDUAL TREE PITS SHALL RECEIVE THREE (3) INCHES OF BARK MULCH PER SPECIFICATIONS. PERENNIAL AND GROUNDCOVER BEDS SHALL RECEIVE TWO NCHES (2"). PROVIDE LANDSCAPE ARCHITECT WITH SAMPLE FOR APPROVAL. ALL BURLAP, TWINE AND WIRE SHALL BE COMPLETELY REMOVED OR CUT AWAY AT TIME OF
- NSTALLATION. RUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- PLANT WARRANTY SHALL BE FOR ONE FULL GROWING SEASON FROM THE TIME OF **UBSTANTIAL COMPLETION.**
- ANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING OR LOST MATERIAL UNTIL COMPLETION OF MAINTENANCE PERIODS OR JUARANTEE PERIODS.
- NO IRRIGATION SYSTEM IS PLANNED, AN APPROPRIATE WATERING SCHEDULE SHALL BE STABLISHED BY THE LANDSCAPE CONTRACTOR FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDED IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. THE APPROVED SCHEDULE SHOULD BE OLLOWED UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS. ALL VEGETATION AND DEBRIS SHALL BE REMOVED FROM PROPOSED PLANTING AREAS PRIOR O PLANTING AND BACKFILLING. CONTRACTOR SHALL REMOVE ALL WEEDS AND DEBRIS ROM SITE AS WORK PROGRESSES AND UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
- ALL AREAS TO BE SEEDED OR SODDED SHALL RECEIVE SIX INCHES (6") OF LOAM, MEASURED AFTER INSTALLATION, PRIOR TO SEEDING.
- ALL EXISTING LAWN AREAS DESIGNED TO REMAIN SHALL BE AERATED, FERTILIZED AND OVERSEEDED, AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- N ADDITION TO LOCATIONS DEFINED FOR SEED ON THE PLANTING PLAN, THE CONTRACTOR HALL BE RESPONSIBLE FOR SEEDING ANY DISTURBED AREAS.
- A DETAILED PLANT MAINTENANCE MANUAL SHALL BE ESTABLISHED BY THE LANDSCAPE CONTRACTOR FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND ROVIDED IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. INFORMATION THEREIN SHALL INCLUDE REQUIRED PRUNING SCHEDULE, ERTILIZING AND PROPOSED INTEGRATED PEST MANAGEMENT (IPM) AS NECESSARY. THE APPROVED MAINTENANCE SHOULD BE FOLLOWED UNTIL COMPLETION OF PLANT AAINTENANCE PERIODS OR WARRANTY PERIODS.
- ANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CLOSE COORDINATION WITH DWNER, GENERAL CONTRACTOR, RELATED SUBCONTRACTORS, LANDSCAPE ARCHITECT, AND ALL SITE WORK RELATED ITEMS.





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STAMP

BID SET

PROJECT:

Site Improvements at Richardson Park

64 Richardson Street Providence, RI

REVISIONS:

Date Issued For:

NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 10/21/24 PROJECT NO: RICH.20.03 DRAWN BY: NM / AN / SG CHECKED BY: SG

L-1.0

1 OF 24

Cover Sheet

SHEET TITLE





			MACTITY OF
$\overline{\mathbf{X}}$	EX. TREE TO BE REMOVED BY PARKS DEPT	R&D ASPHALT TO GRAVEL BASE	
	EX. STREET LIGHT	R&D CONCRETE & GRAVEL BASE	
	EX. POWER POLE	R&D PLAY SAND TO 12" DEPTH	
	EX. CATCHBASIN	R&D INFIELD MIX TO 4" BELOW EX. GRADE	A CALLER CA
	EX. MANHOLE	STRIP TURF, SCREEN TOPSOIL, & GRADE	PROVIDENCE PARKS DEPARTMENT
/ 4IN / 6IN	WATER LINE	STRIP TURF TOPSOIL 2'-4' PAST EXISTING GRADE DISTURBANCES TO A DEPTH OF 4" BELOW FINISHED GRADE	DALRYMPLE BOATHOUSE
S 12IN — S 32IN —	SANITARY SEWER LINE	R&S :REMOVE & STOCKPILE	PROVIDENCE, RI 02905
- E	UNDERGROUND ELECTRIC LINE	R&D: REMOVE & DISPOSE	

DEMOLITION PLAN SPECIAL NOTES

1 F&I TREE PROTECTION, TYP. $\begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$

2 F&I SILT SOCK, TYP. $\frac{2}{1-9.0}$

R&D ASPHALT PAVING AND BASE, (REMOVE BY HAND AROUND TREES)

4) SAW CUT ASPHALT

5) R&D PLAY SAND TO 4" DEPTH

6) R&D CONCRETE CURB

5

(12)

R&S EX. SERVICE GATE/R&D (2) EX POSTS & FOOTINGS @ NEW GATE R&D 6' CL MESH, LOWER PORTION) WHERE DOUBLE HEIGHT, SAVE & PROTECT EX. POSTS

R&D CL MESH ON LOWER 8' OF BACKSTOP 9

10 R&D INFIELD MIX TO MINIMUM DEPTH OF 4" BELOW FINISH GRADE R&D EX. BASE PLATES & MOUNTING (11) HARDWARE, TYP.



12 AREA TO BE RE-GRADED; STRIP TURF, SCREEN & AMEND SOIL

STRIP TURF & TOPSOIL 2-4' PAST EXISTING GRADE 13) DISTURBANCES, TO A DEPTH OF 4" BELOW PROPOSED FINISH GRADE

(14) R&D EX. BLEACHER

ADD/ALT #1: R&D TOP CENTER PANEL BACKSTOP 15 CL MESH



ADD/ALT #2: R&D CONCRETE IN BOTH (16) DUGOUTS, R&S EXISTING PLAYERS BENCHES **BASE BID:** NO WORK

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STAMP



BID SET

PROJECT:

Site Improvements at **Richardson Park**

64 Richardson Street Providence, RI

REVISIONS: Date Issued For: ----NORTH ARROW



DRAWING INFO DATE ISSUED: 10/21/24 PROJECT NO: RICH.20.03 DRAWN BY: NM / AN / SG

CHECKED BY: SG SHEET TITLE

Ex Conditions / Demo Plan A

L-2.0

3 OF 24

- 78 PSI



	PROPERTY LINE	
LOW	LIMIT OF WORK	۲
~~~~~~	TREE PROTECTION FENCE	J
	SAWCUT	
X X	EX. CHAIN LINK FENCE	MH
-0000	EX. WELDED WIRE FENCE	W 4IN W W 6IN W
x	LIMIT OF FENCE REMOVAL	- SS 12IN - SS - SS 32IN - SS
— ss — ss —	EROSION CONTROL SILT SOCK	E



ADD ALT #9: R&D CONCRETE BENCHES & BOULDERS 29 **BASE BID:** NO WORK

R&S EXISTING MANIFOLD & ALL -----VALVES & PIPING. SAWCUT FLOOR 18" FROM WALL TO ACCOMODATE NEW PIPING

EXISTING 2-1/2" — BALL VALVE -LOCATION FOR NEW IRRIGATION MAIN

![](_page_3_Picture_10.jpeg)

![](_page_3_Picture_11.jpeg)

WATER BUILDING IMPROVEMENTS - INTERIOR

![](_page_3_Picture_13.jpeg)

**R&D EXISTING** WATER HEATER

- PIPING TO BATHROOM to remain

![](_page_3_Picture_16.jpeg)

Ex Conditions /Demo Plan B

**L-2.1** 

![](_page_4_Figure_0.jpeg)

2SS

				CTTY OF
DE				PROVIDENCE PARKS DEPARTMEN
ADE				DALRYMPLE BOATHOUSE ROGER WILLIAMS PARK
ITOUR				
ONTOUR				
				PARKS play · relax · explore
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BOTTOM OF BERM, TYP		21N S 221N	- W 6IN	REVISIONS:   Date Issued For:
¹ / ₂ " CROWN ON STONE DUST			ым	 
CROSS-SLOPE AT LOW POINT.		S 221N S 221N	- W GIN W GIN W G	NORTH ARROW
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		22IN S 2		SCALE: 1"=20' DRAWING INFO
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		2 S 22IN	0 2 2 2 2 2 3 2 2 3 2 3 2 3 3 3 3 3 3 3	SHEET TITLE Grading Plan A
— W 6IN— W 6IN— W 6IN— W 6IN— W 6IN— — SS 32IN — SS 32IN — SS 32IN — SS 320N — SS 3	– W 6IN— W 6IN— <del>— W</del> 32IN — SS 32IN — SS	61N <del>V 61N  </del> W 61 321N -	N 6IN W 6IN	L-3.0

![](_page_5_Figure_0.jpeg)

![](_page_6_Figure_0.jpeg)

![](_page_6_Figure_5.jpeg)

![](_page_6_Picture_7.jpeg)

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**BID SET** 

TAMP

![](_page_6_Picture_10.jpeg)

![](_page_6_Picture_11.jpeg)

Site Improvements at **Richardson Park** 

**64 Richardson Street** Providence, RI

**REVISIONS:** Date Issued For: ----

NORTH ARROW  $\langle$ SCALE

![](_page_6_Picture_16.jpeg)

SCALE: 1"=20' DRAWING INFO

# DATE ISSUED: 10/21/24

PROJECT NO: RICH.20.03 DRAWN BY: NM / AN / SG CHECKED BY: SG

SHEET TITLE Materials Plan A

L-4.0

![](_page_7_Figure_0.jpeg)

![](_page_8_Figure_0.jpeg)

![](_page_8_Figure_5.jpeg)

## LAYOUT LEGEND

![](_page_9_Picture_1.jpeg)

DIMENSION

ALIGN EDGES OR FACES

![](_page_9_Figure_6.jpeg)

HM

10 OF 24

20'

![](_page_10_Figure_0.jpeg)

"								
"								
	"	 	"	"	"	"	"	

![](_page_10_Figure_3.jpeg)

![](_page_11_Figure_0.jpeg)

ULE - PROJECT WIDE								
	SIZE	NOTES						
UOUS TREES								
ory' E	3-3.5" CAL.	LIMB TO 7'						
Cole'	2-2.5" CAL	LIMB TO 7'						
ne' )GWOOD	8-10' ht.	SINGLE STEM						
	2-2.5" CAL	LIMB TO 7'						
1	3.5-4" CAL.	LIMB TO 7'						
IENTAL TREES								
	6-7' HT.	3-5 STEMS						
'Autumn Brilliance' EBERRY	6-7 HT.	3-5 STEMS						
SHRUBS								
/ Scape Mound'	#3 cont.	24" O.C.						
	#3 cont.	36" O.C.						
ALS & GRASSE								
	4" pots	12" O.C.						
s Low'	#2 cont.	24" O.C.						
Colors'	#1 cont.	12" O.C.						

## PLANTING LEGEND

![](_page_11_Picture_5.jpeg)

DECIDUOUS TREES ORNAMENTAL TREES SHRUBS PERENNIALS (VARIES) SOD ATHLETIC FIELD SEED PARK MIX SEED

CITY OF
PROVIDENCE PARKS DEPARTMENT
DALRYMPLE BOATHOUSE ROGER WILLIAMS PARK
PROVIDENCE, RI 02905
PROVIDENCE
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STAMP
BID SET
PROJECT: Site Improvements at
Richardson Park
<b>64 Richardson Street</b> Providence, Rl
REVISIONS: Date Issued For:
SCALE
0 10' 20' 40'
SCALE: 1"=20'
DATE ISSUED: 10/21/24
PROJECT NO: <b>RICH.20.03</b> DRAWN BY: <b>NM / AN / SG</b>
CHECKED BY: SG SHEET TITLE
Planting Plan A
•

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_4.jpeg)

![](_page_12_Picture_5.jpeg)

ORNAMENTAL TREES

SHRUBS

PERENNIALS (VARIES)

SOD

ATHLETIC FIELD SEED

PARK MIX SEED

![](_page_12_Figure_13.jpeg)

![](_page_13_Figure_0.jpeg)

## **IRRIGATION LEGEND**

![](_page_13_Figure_2.jpeg)

### **IRRIGATION NOTES**

- 1. PIPE AND VALVE LOCATIONS ARE DIAGRAMMATIC, CONTRACTOR SHALL VERIFY IN FIELD
- INSTALLED WHERE SHOWN, SHALL BE #14 GAUGE SINGLE STRAND, BLUE.

- AT IRRIGATION CONTRACTOR'S POINT OF CONNECTION.
- OWNER'S REPRESENTATIVE BEFORE CONTINUING.

2. CONTROL WIRE SHALL BE #14 GAUGE SINGLE STRAND, RED. COMMON WIRE SHALL BE #12 GAUGE SINGLE STRAND, WHITE. SPARE WIRES,

3. QUICK COUPLING VALVES SHALL BE INSTALLED ON 1 INCH PVC SWING JOINTS WITH BRASS INSERTS AND STABILIZERS.

4. ROTARY SPRINKLERS SHALLE BE INSTALLED ON 1-INCH PVC PREFABRICATED UNITIZED SWING JOINT ASSEMBLIES WITH INTEFRAL O-RINGS. 5. IRRIGATION SYSTEM IS DESIGNED TO SUPPLY 50 GPM MAX FROM NEW 2.5 INCH SERVICE. SYSTEM TO PRODUCE 70 PSI DYNAMIC PRESSURE

6. CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK AND REPORT ANY DEVIATIONS FROM PRESSURE REQUIRED TO

7. INSTALL CONTROLLER IN CONCESSIONS MECHANICAL ROOM AS DIRECTED BY OWNER'S REPRESENTATIVE, HARD WIRE TO 120 VOLT BUILDING POWER SUPPLY. ROUTE ZONE AND SPARE WIRES TO CONTROLLER VIA 2 INCH CONDUIT.

- THE START OF WORK.
- 10. FLUSH LATERAL LINES BEFORE INSTALLING SPRINKLERS.
- APPROVAL PRIOR TO ORDERING MATERIALS AND BEGINNING WORK.

8. INSTALL RAIN SENSOR ON EXTERIOR BUILDING WALL WHERE DIRECTED BY OWNER'S REPRESENTATIVE. EXTERIOR RAIN SENSOR WIRING SHALL BE CONTAINED IN A  $\frac{1}{2}$  INCH SCHEDULE 40 PVC ELECTRICAL CONDUIT, SECURED TO EXTERIOR WALL OF BUILDING. 9. COORDINATE LOCATION OF EXISTING AND FUTURE UTILITIES ON SITE AND CONTACT PROPER AUTHORITIES AND UTILITY COMPANIES BEFORE

11. CONTRACTOR MUST PROVIDE PRODUCT SUBMITTALS AS PER THE WRITTEN SPECIFICATIONS TO THE OWNER'S REPRESENTATIVE FOR

12. ONCE APPROVED SUBMITTALS HAVE BEEN RETURNED TO THE CONTRACTOR WORK MAY BEGIN. THE OWNER'S REPRESENTATIVE MUST BE NOTIFIED A MINIMUM OF 7 DAYS IN ADVANCE OF THE START OF WORK TO COORDINATE ON-SITE SUPERVISION AND ADMINISTRATION. 13. SEE IRRIGATION DETAILS AND SPECIFICATIONS SECTIONS FOR ADDITIONAL NECESSARY INFORMATION.

**L-8.0** 

DATE ISSUED: 10/21/24

Irrigation Plan

14 OF 24

CHECKED BY: SG

SHEET TITLE

PROJECT NO: RICH.20.03 DRAWN BY: NM / AN / SG

![](_page_14_Figure_0.jpeg)

![](_page_14_Picture_11.jpeg)

![](_page_14_Picture_12.jpeg)

![](_page_14_Picture_14.jpeg)

2

5

![](_page_14_Picture_15.jpeg)

![](_page_14_Picture_16.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_2.jpeg)

PRE-CAST CONCRETE CURB (DETAIL 13, THIS SHEET, TYP) - 1/2" THICK WEAR COURSE, MDI POLYURETHANE AND EPDM RUBBER GRANULES; ADHERE TO CONTAINING BORDERS AND PRIMER LAYER POLYURETHANE AND SBI RUBBER BUFFINGS 3" BITUMINOUS CONCRETE ASPHALT, ALLOW TO CURE 14 DAYS MINIMUM & POWERWASH BEFORE INSTALLING IMPACT ATTENUATION LAYER

OF CHAMFER/RADIUS OF CURB

LOAM & SEED, BRING LOAM TO BOTTOM

## PRECAST CONCRETE CURB WITH REVEAL

1: FINISH GRADE OF TURF TO BE 6" BELOW T.O.C. 2: EWF SIDE REVEAL TO BE 2" UNLESS OTHERWISE NOTED ON GRADING PLANS

![](_page_15_Figure_9.jpeg)

# ³/₄" RADIUS OR CHAMFER FINISHED GRADE EWF MULCH PINNING PIECES TOGETHER (TYP) COMPACTED AGGREGATE BASE

![](_page_15_Picture_11.jpeg)

## 12" OF EWF MULCH

1/2" THICK WEAR COURSE, MDI POLYURETHANE AND EPDM RUBBER GRANULES; ADHERE TO CONTAINING BORDERS AND PRIMER LAYER 2-1/2" THICK IMPACT ATTENUATION LAYER, MDI POLYURETHANE AND SBI RUBBER BUFFINGS 3" BITUMINOUS CONCRETE ASPHALT, ALLOW TO CURE 14 DAYS MINIMUM & POWERWASH - 6" COMPACTED GRAVEL BASE, 95% MOD- PROCTOR DENSITY; INSTALL IN (2) EQ. LIFTS

UNDISTURBED SUBGRADE

![](_page_15_Picture_17.jpeg)

![](_page_15_Picture_18.jpeg)

![](_page_15_Picture_19.jpeg)

![](_page_15_Picture_20.jpeg)

![](_page_15_Picture_21.jpeg)

L-9.1

![](_page_16_Figure_0.jpeg)

23

6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1 :50 EXCEPT WITHIN THE RAMP AREA.

7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4' -0" SHALL BE MAINTAINED.

8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT BE STEEPER THAN 1: 12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1: 12 WHEN WARRANTED BY SURROUNDING CONDITIONS.

9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").

- 10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
- 11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
- 12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.

13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3' -0" (GREATER LENGTHS PREFERRED).

14. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.

15. DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS 16. 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.

![](_page_16_Figure_16.jpeg)

🖌 ±8" 🖌 **SECTION ELEVATION** 

## BOULDER CHANNEL AT DRAIN

![](_page_16_Figure_21.jpeg)

**ELEVATION** 

## STEEL DOME LID CN/B-2755

![](_page_16_Figure_23.jpeg)

NOTES

(21)

(24)

NTS

- SEE DETAIL 3/L-7 FOR CONCRETE PAD. 1
- UNIT SHOULD BE SECURED TO CONCRETE PAD USING THE FOUR (4) ANCHOR HOLES. 2
- 3. MODEL#: CN-R/R-55: PILOT ROCK 55 GAL. ROUND PERFORATED STEEL TRASH RECEPTACLE. COLOR: BLACK, MATERIAL: STEEL.
- MODEL#: CN-2755: PILOT ROCK 27" O.D. DOME LID. COLOR: BLACK, MATERIAL: STEEL
- 5. MODEL#: CN/B-1829: PILOT ROCK 55 GAL. 23-5/8" O.D. X 35" HT., HEAVY DUTY RIGID PLASTIC LINER.

EX. 14" IRON GRATE AND DRAIN STRUCTURE (APPROXIMATE DESIGN). CLEAN EX. CONCRETE FROM FRAME AS NEEDED BEFORE SETTING IN PLACE RIM EL: 44.60

FINISHED GRADE, SLOPE VARIES

4" CONCRETE, POURED TO EDGE OF FRAME. SEE DETAIL 4, SHEET L 10.0 FOR MIX DESIGN

**RE-USE CONNECTION FROM EX.** DRAIN IF POSSIBLE

6" SCH 40 PVC 90° ELBOW

SCH 40 PVC DRAIN PIPE, MIN 1% SLOPE, CONNECT TO EX. MANHOLE

UNDISTURBED SUBGRADE

EX. CATCH BASIN

BOULDER, TYP

RIM EL LOWERED TO 42.42

BOULDER, TYP BOTH SIDES

EDGE OF CHANNEL, TYP

TOWARDS SPRAY FEATURES

EX. BOULDER FROM STOCKPILE, TO BE

IDENTIFIED PRIOR TO CONSTRUCTION

POSITION BOULDER ON COMPACTED

CUT/CHISEL OPENING IN BOULDER

ROUGHLY CENTERED ON EX. CLEFT

PROPOSED FINISHED GRADE

PERIMETER OF BOULDER, TYP

6" COMPACTED GRAVEL BASE

SLOPE TOWARD CB

EXPANSION JOINT 3" FROM EDGE OF

![](_page_16_Figure_37.jpeg)

### **MOUNTED IN CONCRETE**

![](_page_16_Figure_40.jpeg)

![](_page_16_Picture_43.jpeg)

![](_page_16_Figure_45.jpeg)

![](_page_16_Picture_46.jpeg)

![](_page_16_Picture_47.jpeg)

6" SCHEDULE 40 PVC PERFORATED PIPE W/ SUBGRADE OUTFALL

![](_page_17_Figure_0.jpeg)

![](_page_17_Picture_1.jpeg)

GRADE.

![](_page_17_Figure_2.jpeg)

## FOUL POLE FOOTING

— 24" —

![](_page_17_Figure_4.jpeg)

![](_page_17_Figure_5.jpeg)

![](_page_17_Figure_8.jpeg)

" x1" FLAT STOCK WELDED TO 2" UPRIGHT.

(31)

34

NTS

NOTES

SOD & LOAM -CLEAN SAND -2 5

28

90% COMPACTION

POST CAP (TYP.)

![](_page_17_Figure_31.jpeg)

## 12' WIDE GALVANIZED CHAIN LINK SERVICE GATE

RICH.20.03-DT.dwg

![](_page_17_Figure_34.jpeg)

1. SAND: 70% TO 75% OF THE TOTAL SAND CONTENT, 50% SHALL BE COMPOSED OF MEDIUM, COARSE, AND VERY COARSE SAND PARTICLES.

2. SILT & CLAY: THE COMBINED AMOUNT OF SILT AND CLAY SHALL BE BETWEEN 25% AND 30%. THE SILT-TO-CLAY RATIO. SHALL BE BETWEEN 0.5 AND 1.0.

## 4" INFIELD SKIN SURFACE

*NOTE: FOOTING DEPTH TO BE MINIMUM  $\frac{1}{3}$  TOTAL HEIGHT OF POST. SEE INSTALLATION AND MAINTENANCE MANUAL FOR MORE INFORMATION

ELECTRO-MECH SCOREBOARD MODEL LX1250

![](_page_17_Picture_40.jpeg)

DATE ISSUED: 10/21/24 PROJECT NO: RICH.20.03 DRAWN BY: NM / AN / SG CHECKED BY: SG

SHEET TITLE Details

![](_page_18_Figure_0.jpeg)

![](_page_18_Figure_1.jpeg)

![](_page_18_Figure_2.jpeg)

![](_page_19_Figure_0.jpeg)

PERENNIAL OR GROUNDCOVER AS NOTED ON PLANTING PLAN 3" AGED PINE BARK MULCH (DARK BROWN)

PLANTING SOIL AS SPECIFIED

UNDISTURBED SUBGRADE

![](_page_19_Picture_4.jpeg)

PERENNIAL & GROUNDCOVER PLANTING

![](_page_19_Picture_6.jpeg)

DECIDUOUS TREE PLANTING

REMOVE ALL DEAD, DAMAGED, DISEASED AND CROSSING BRANCHES. GUY WEBBING ATTACHED NO HIGHER THAN  $\frac{1}{2}$  and NO LOWER THAN  $\frac{1}{3}$  THE HEIGHT OF THE TREE. (3) 2"X2" HARDWOOD STAKES. DRIVE 3' INTO GROUND OUTSIDE OF ROOTBALL WITH AT LEAST 6' EXPOSED HEIGHT. CUT AWAY SOIL TO EXPOSE ROOT FLARE. INSTALL ROOTBALL 1" ABOVE FINISH GRADE. AGED SOFTWOOD BARK MULCH 3" MIN.; DO NOT MULCH ANY CLOSER THAN 8" TO TRUNK. - CUT ROPES AT TOP OF BALL; REMOVE TOP 1/3 OF BURLAP & BALL CAGE; NON-BIODEGRADABLE MATERIALS TO BE REMOVED. 85% COMPACTED BACKFILL MIX OF

EXCAVATED SOIL & COMPOSTED LOAM

• UNDISTURBED SUBGRADE.

![](_page_19_Picture_12.jpeg)

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STAMP

**BID SET** 

### **PROJECT**:

Site Improvements at **Richardson Park** 

64 Richardson Street Providence, RI

**REVISIONS:** 

-

Date Issued For:

-

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NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 10/21/24 PROJECT NO: RICH.20.03 DRAWN BY: NM / AN / SG CHECKED BY: SG

SHEET TITLE Details

![](_page_19_Picture_30.jpeg)

![](_page_20_Figure_0.jpeg)

NTS

**(51**) NTS

![](_page_20_Figure_3.jpeg)

REMOTE CONTROL VALVE

3

(4)-

3" MIN

![](_page_20_Figure_8.jpeg)

15 3/4-INCH STONE

3. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.

### Site Improvements at **Richardson Park**

**BID SET** 

64 Richardson Street Providence, RI

**REVISIONS:** 

-

Date Issued For:

-

-

NORTH ARROW

SCALE

### DRAWING INFO

DATE ISSUED: 10/21/24 PROJECT NO: RICH.20.03 DRAWN BY: NM / AN / SG CHECKED BY: SG

SHEET TITLE Irrigation Details

![](_page_20_Picture_24.jpeg)

![](_page_20_Picture_25.jpeg)

### SPECIFICATIONS FOR CONSTRUCTION

### 1 GENERAL NOTES

1.1 THESE DESIGN DOCUMENTS WERE PREPARED BY 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL'S BEST JUDGMENT IN LIGHT OF THE INFORMATION AVAILABLE AT THE TIME OF PREPARATION. FOR THE PURPOSE OF THESE DESIGN DOCUMENTS, 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' IS SYNONYMOUS WITH 'VORTEX'.

1.2 VORTEX ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS BASED ON THESE DESIGN DOCUMENTS WITHOUT THE PREVIOUS CONSULTATION TO VORTEX.

1.3 ALL WORK, MATERIALS AND THEIR ASSEMBLIES SHALL CONFORM TO THE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE FOR ALL TRADES, AISC, ACNOR, EN, OR IBC.

1.4 THESE DESIGN DOCUMENTS DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. WHEN APPLICABLE, THE CONTRACTORS SHALL SUPERVISE AND DIRECT ALL THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES AND SEQUENCES AS PER STANDARD BEST PRACTICES.

1.5 DO NOT SCALE DRAWINGS.

1.6 USE ONLY THOSE MARKED "ISSUED FOR CONSTRUCTION".

1.7 THE CONTRACTOR SHALL REVIEW THESE DESIGN DOCUMENTS AND REPORT ANY CONFLICTS OR OMISSIONS TO THE VORTEX IMMEDIATELY.

1.8 TEMPORARY SUPPORTS, WHICH WILL BE REQUIRED DURING CONSTRUCTION, SUCH AS FORMWORK, BRACING, SHORING, ETC. ARE NOT SHOWN ON THESE DRAWINGS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SAFE CONSTRUCTION PROCEDURES ARE FOLLOWED.

1.9 THE FOLLOWING SPECIFICATIONS ARE VORTEX'S MINIMUM RECOMMENDATIONS TO OBTAIN A QUALITY PRODUCT. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE RESTRICTIVE.

1.10 ALL SEEFLOW COMPONENTS TO BE SNUG-TIGHT ONLY. USING POWER TOOLS OR TIGHTEN HARDWARE FULLY-TENSIONED CAN PRODUCE CRACKING ON THE PLASTIC.

### 2 EXCAVATION

2.1 ANY SHORING OR TEMPORARY SHORING NOT SHOWN ON DRAWINGS WILL BE EXECUTED, IN A SAFE MANNER, BY THE GENERAL CONTRACTOR. 2.2 IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY THE EXISTENCE OF ANY UNDERGROUND SERVICES ETC.

2.3 IF AVAILABLE, REFER TO SOIL REPORT FOR BACKFILL REQUIREMENTS. ALL BACKFILL (FOR SLAB ON GRADE, ETC.) MUST BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED PROFESSIONAL. USE ONLY FREE DRAINING, GRANULAR, MINERAL, INERT AND NON- REACTIVE FILL.

3 FOUNDATIONS

3.1 REFER TO SOIL REPORT FOR RECOMMENDATIONS.

3.2 ALL FOOTINGS SHALL REST ON A HOMOGENEOUS LAYER OF UNDISTURBED SOIL OR ENGINEERED BACKFILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA (2000 PSF) AND MAXIMUM DIFFERENTIAL SETTLEMENT OF 19 MM (0.75"). ALL ORGANIC MATERIAL SHALL BE REMOVED.

3.3 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SOIL AT ALL FOOTING LOCATIONS BE VERIFIED BY A QUALIFIED SOILS EXPERT BEFORE POURING FOOTINGS TO ENSURE FOOTINGS REST ON APPROPRIATE STRATA.

3.4 WHEN APPLICABLE, FOLLOW GEOTECHNICAL EXPERT RECOMMENDATIONS FOR ALL EXTERIOR FOOTINGS TO ENSURE FROST PROTECTION.

4 CONCRETE

4.1 ALL CONCRETE MATERIALS, PROCEDURES, TOLERANCES & WORKMANSHIP SHALL CONFORM TO THE LATEST ISSUES OF ACI-318 AND ACI 317 OR ACNOR CAN3-A23.1 & A23.2, DEPENDING ON PROJECT LOCATION.

4.2 CONCRETE THAT HAS BEEN IN THE TRUCKS LONGER THAN 2 HOURS SHALL BE REJECTED. DO NOT ADD WATER TO THE CONCRETE IN THE TRUCKS OR ON THE SITE UNDER ANY CIRCUMSTANCES.

4.3 USE MAXIMUM 76mm (3") SLUMP, 19mm (3/4") AGGREGATE, UNLESS OTHERWISE-NOTED. USE 5-7% AIR ENTRAINMENT FOR CONCRETE EXPOSED TO WEATHER ONI Y

4.4 ALL GROUT SHALL BE NON-SHRINK TYPE WITH A MINIMUM 28 DAYS STRENGTH OF 35.0 MPA (5000 PSI). USE 25 MM (1") GROUT UNDER ALL STEEL COLUMN BASE PLATES. 4.5 CONCRETE STRENGTH @ 28 DAYS TO BE:

4.5.1 FOUNDATIONS (FOOTINGS): 25.0 MPA (3500 PSI), UNLESS OTHERWISE NOTED.

4.5.2 INTERIOR SLAB ON GRADE: 25.0 MPa (3500 PSI), UNLESS OTHERWISE NOTED. 4.5.3 EXTERIOR SLAB ON GRADE: 32.0 MPa (4500 PSI), UNLESS OTHERWISE NOTED.

4.6 MINIMAL RE-BAR COVER:

4.6.1 CONCRETE POURED ON-GRADE = 76mm (3") COVER

4.6.2 CONCRETE POURED INTO FORMWORK BUT EXPOSED TO SOIL AND WEATHER FOR REBAR 15m (#4) AND UNDER = 50mm (2") COVER

REINFORCING STEEL

5.1 DEPENDING ON PROJECT LOCATION, ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (BARS 15m (#4) TO BE GRADE 60 WITH SUPPLEMENTARY REQUIREMENTS ON

BARS SMALLER THAN 15m (#4), TO BE GRADE 40); OR TO ACNOR GRADE G30.12 [FY = 400MPA (60,000 PSI), UNLESS OTHERWISE NOTED].

5.2 USE CONCRETE, PLASTIC OR STEEL SUPPORT BARS, AS PER ACI (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES). THE RE-BAR PLACER MUST REMAIN ON-SITE DURING POURS TO VERIFY CORRECT POSITIONING OF RE-BARS. SLANT UPPER REINFORCING STEEL IN LINE WITH THE SLOPE OF THE SLAB, IF APPLICABLE.

5.3 BARS SHALL BE SECURELY WIRED PER LATEST EDITION OF CRSI (RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS).

5.4 ALL REINFORCING STEEL IS TO BE KEPT CLEAN AND FREE OF MUD, SNOW, ICE, AND ANY CONTAMINANTS.

5.5 VERTICAL AND CONTINUOUS REBAR SHALL BE LAPPED TO DEVELOP FULL TENSILE CAPACITY OF THE BAR. FOR 15M (#4) BARS MINIMUM LAP OF 610mm (24").

6 EXTERIOR / INTERIOR SLAB ON GRADE

6.1 FOLLOW THE GEOTECHNICAL EXPERT RECOMMENDATIONS FOR PREPARATION OF SOIL BEFORE POURING THE CONCRETE. ALL GRANULAR MATERIAL SHALL BE MOISTENED IMMEDIATELY BEFORE POURING THE CONCRETE. WATER AS NEEDED. DO NOT USE A VAPOR BARRIER.

6.2 NO TRUCKS ARE PERMITTED ON THE CONSTRUCTION SITE (OF THE SLAB) AFTER THE FINAL COMPACTION, EITHER BEFORE OR DURING, THE POUR.

6.3 SLAB TO BE MINIMUM 6" THICK, REINFORCED WITH 10m (#3) @ 300mm (12") C/C REBAR PLACED IN BOTH DIRECTIONS AT MID-HEIGHT OF THE SLAB, UNLESS OTHERWISE NOTED ON PLANS. FOR ELEVATION/PLAYNUK REQUIREMENT OF THICKENED SLAB/MANIFOLD LOCATION, REFER TO ELEVATION INSTALLATION PACKAGE FOR DETAILS. 6.4 REFER TO CONCRETE SECTION FOR MINIMUM COMPRESSIVE STRENGTH AND AIR-ENTRAINMENT REQUIREMENTS.

6.5 FINISHING WILL BE MEDIUM BROOM.

6.6 CONTROL JOINTS (SAW-CUTS) TO BE LOCATED IN EACH DIRECTION, AT REGULAR INTERVALS, WITH A MAXIMUM DISTANCE OF 3 METERS (10 FEET). SHALL BE MINIMUM 3 MM (1/8") WIDE AND SHALL PENETRATE THE SLAB TO A MINIMUM DEPTH OF 1/3 OF THE THICKNESS OF THE SLAB. CONTROL JOINTS SHOULD BE DONE AS SOON AS POSSIBLE WITHOUT DAMAGING THE CONCRETE, BUT NO LATER THAN 18 HOURS AFTER POURING. 6.7 WHEN POSSIBLE AND TO AVOID SHRINKAGE CRACKING, HUMIDITY SHALL BE MAINTAINED FOR 7 DAYS DURING THE CURING PERIOD OF THE SLAB. WATER AND USE POLYETHYLENE CLOTH OR BAG. THE CONCRETE MUST DRY UNIFORMLY.

7 CONCRETE WORK IN COLD OR HOT WEATHER (MINIMUM REQUIREMENTS) 7.1 COLD WEATHER REQUIREMENTS APPLY WHEN THE MEAN AIR IS LESS THAN 5 DEGREES CELSIUS (40 DEGREES FAHRENHEIT).

7.2 GENERAL REQUIREMENTS FOR COLD WEATHER CONCRETE WORK SHALL BE AS PER ACI 306R-88; OR AS PER THE NBC'S LATEST REQUIREMENTS INCLUDING THE LATEST ISSUE OF CSA STANDARD CAN3-A23.1.

7.3 ALL SNOW AND ICE SHALL BE REMOVED FROM FORMS AND REBAR WITH STEAM AND COMPRESSED AIR BEFORE POURING. DO NOT USE DE-ICING SALT (CALCIUM CHLORIDE) OR ANY OTHER SALTS UNDER ANY CIRCUMSTANCES.

7.4 CONCRETE SHALL HAVE A MINIMUM TEMPERATURE OF 20 DEGREES CELSIUS AND A MAXIMUM TEMPERATURE OF 25 DEGREES CELSIUS WHILE POURING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS ARE SATISFIED. ANY CONCRETE THAT DOES NOT CONFORM MUST BE REJECTED.

7.5 THE SURFACE OF POURED CONCRETE SHALL BE PROTECTED BY MEANS OF SUITABLE COVERINGS AND INSULATION (TO BE DETERMINED BY TEMPERATURE) DURING THE CURING PROCESS.

7.6 GENERAL REQUIREMENTS FOR HOT WEATHER CONCRETE WORK SHALL BE AS PER ACI 305R-99; OR AS PER LOCAL CODE REQUIREMENTS.

8 PIPING

8.1 WDS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER TO ADJUST FOR SITE CONDITIONS

8.2 ANY REQUIRED WATER METER ON THE CITY WATER MAIN SHALL BE PROVIDED BY INSTALLER. BACKFLOW PREVENTER AND PRESSURE REGULATOR WILL BE PROVIDED BY VORTEX.

8.3 ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.

8.4 ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 100 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 100 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.

8.5 QUANTITY AND LOCATION OF DRAINS BASED ON MAXIMUM FLOW FOR THE INDICATED PIPE DIAMETER AT 1% SLOPE. MODIFICATIONS MAY BE REQUIRED DUE TO SPECIFIC SITE CONDITIONS AND LOCAL CODE.

8.6 PRESSURE LINES ARE RECOMMENDED TO BE SCHEDULE 80 PVC OR PEX, AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.7 DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.8 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.

8.9 PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.10 PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.11 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.

8.12 VALVE NUMBER 1 IS LOCATED TO THE LEFT OF THE MANIFOLD FACING THE SOLENOID.

8.13 MINIMUM 50 PSI REQUIRED AT THE INLET OF THE BACKFLOW PREVENTER AND PRESSURE REGULATING DEVICE.

8.14 MAXIMUM FLOW CAPACITY OF MANIFOLD IS 72 GPM.

8.15 TOTAL FLOW OF FEATURE IS 101 GPM. 8.16 FACTORY MAXIMUM SEQUENCING FLOW IS 50 GPM ACTUAL FLOW MAY VARY DUE TO SITE CONDITIONS.

### 9 ELECTRICAL

9.1 EQUIPMENT BONDING; FEATURES SHALL BE CONNECTED TO AN EQUIPOTENTIAL BONDING GRID WITH A SOLID RIGID COPPER CONDUCTOR, THE MINIMUM SIZE OF BONDING CONDUCTORS NOT BE SMALLER THAN #6 AMERICAN WIRE GAUGE (AWG) (16mm²) COPPER. BOND TO ALL METALLIC PARTS LOCATED IN THE SPLASHPAD/POOL AND TO THE REBAR, TO RUN CONTINUOUS TO THE WATER PUMP AND ELECTRICAL SUPPLY PANELS. SEE ELEVATION INSTALLATION DRAWING FOR BONDING DETAILS (BY INSTALLER). SPRAYLINKS FEATURE DO NOT REOUIRE BONDING.

9.2 GRID STRUCTURE; THE EQUIPOTENTIAL BONDING GRID SHALL COVER THE CONTOUR OF THE WATER BODY AREA AND ANY DECK EXTENDING 3FT (1m). HORIZONTALLY FROM THE INSIDE WALLS OF THE SPLASHPAD/WATER BODY. THE EQUIPOTENTIAL BONDING GRID SHALL BE ARRANGED IN A 12 IN (300mm). BY 12 IN (300mm). NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH TOLERANCE OF 4 IN (100mm). A J-JUNCTION BOND CLAMP (DIRECT BURIAL CERTIFIED) CLAMPED TO A REBAR WITH WIRE LOOPED THROUGH CONNECTOR AND CLAMPED TO STEEL AND TO THE SPLASHPAD/POOL PUMP WATER.

9.3 ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED; THE FOLLOWING EQUIPMENT SHALL BE GROUNDED. ALL ELECTRICAL EQUIPMENT LOCATED WITHIN 5FT (1.5 m) OF THE INSIDE WALL OF THE SPECIFIED BODY OF WATER." THIS EQUIPMENT ALSO INCLUDES (BUT NOT LIMITED TO): FEATURES, ELEVATIONS, DRAIN, REBAR, WATER INLET, SKIMMER, LADDER, SLIDES, DIVING STRUCTURE, UNDERWATER LIGHTING, JUNCTION BOXES, AND WATER CIRCULATING/HEATING EQUIPMENT. ALL BONDING AND GROUNDING MUST COMPLY WITH NEC, CEC, AND LOCAL CODES.

9.8 WIRE FROM MAIN POWER TO VORTEX PANEL TO BE DETERMINED BY OTHERS 9.4 ALTERNATE MEANS; WHERE STRUCTURAL REINFORCING STEEL IS NOT AVAILABLE RESPECTING THE LOCAL CODE. OR IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A COPPER CONDUCTOR(S) SHALL BE UTILIZED WHERE THE FOLLOWING REQUIREMENTS ARE MET: (1) AT LEAST 9.9 MAINTAIN A MINIMUM CLEARANCE ZONE OF 36" IN FRONT OF ELECTRICAL PANEL, ONE MINIMUM 6 AWG BARE SOLID COPPER CONDUCTOR SHALL BE PROVIDED. (2) THE UNLESS OTHERWISE REQUESTED BY LOCAL CODE. CONDUCTORS SHALL FOLLOW THE CONTOUR OF THE PERIMETER SURFACE. (3) ONLY 9.10 AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: CONTROLLER AND ANY LISTED SPLICES SHALL BE PERMITTED. (4) THE REQUIRED CONDUCTOR SHALL BE 450 OTHER ELECTRICAL ENCLOSURES MUST BE HARD-WIRED TO A GROUND FAULT CIRCUIT TO 18 TO 24 IN (600mm) FROM THE INSIDE WALLS OF THE POOL. (5) THE REQUIRED INTERRUPTER (GFCI) FROM THE INPUT POWER SOURCE. CONDUCTOR SHALL BE SECURED WITHIN OR UNDER THE PERIMETER SURFACE (4 IN TO 9.11 ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN

6 IN (100mm TO 150mm). BELOW THE SUBGRADE. ACCORDANCE TO LOCAL ELECTRICAL CONSTRUCTION AND SAFETY CODES. 9.12 THE MAESTROPRO CONTROL PANEL IS POWERED THROUGH A MAESTROPRO 9.5 SPLASHPAD/POOL WATER; WHERE NONE OF THE BONDED PARTS IS IN DIRECT CONNECTION WITH THE POOL WATER, THE POOL WATER SHALL BE IN DIRECT CONTACT POWER BOX. WITH AN APPROVED CORROSION-RESISTANT CONDUCTIVE SURFACE THAT EXPOSED 9.13 THE POWER CABLE TO MAESTROPRO POWER BOX IS SUPPLIED BY INSTALLER. NOT LESS THAN 9 IN.2 (5800mm²) OF SURFACE AREA TO THE POOL WATER AT ALL 9.14 THE MAESTROPRO CONTROL PANEL INTEGRATES 24 DIGITAL OUTPUTS WITH 24 TIMES. THE CONDUCTIVE SURFACE SHALL BE LOCATED WHERE IT IS NOT EXPOSED TO VAC AND 12 DIGITAL INPUTS. PHYSICAL DAMAGE OR DISLODGEMENT DURING USUAL POOL ACTIVITIES, AND IT 9.15 FOR REMOTE ACCESS ABILITY, A HARD CONNECTION TO AN EXISTING NETWORK SHALL BE BONDED IN ACCORDANCE WITH NEC, CEC, AND LOCAL CODES. IS REQUIRED USING A CAT 5 CABLE OR A CELLULAR NANO-SIM CARD WITH DATA-PLAN.

9.6 WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG. A TOTAL OF TWO (2) CONDUCTORS PER ACTIVATOR.CABLE LENGTH UP TO 300' (100m), PROVIDED BY INSTALLER.

![](_page_21_Picture_87.jpeg)

![](_page_21_Picture_88.jpeg)

![](_page_21_Picture_89.jpeg)

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Abbreviations								
А	Architectural							
С	Civil Work							
Р	Plumbing Layout							
PD	Plumbing Details							
E	Electrical Layout							
ED	Electrical Details							
FT	Feature Drawings							

Drawing #	Drawing Name	Rev #
PE-001	Plumbing & Electrical Layout	00
E-003	Bonding Layout	00

![](_page_22_Figure_0.jpeg)

	F	eature	e Connec	tion Table	2					DT	<b>C</b> '	
ure f.		F	eature		Qty	Line Size	Gpm	Output (ID1)				
		Spray VC	link™ Ar )R 3002	rch	3	1"	4.5	1	3500 South Dupont	Highway, Su	ite El	P-101
	S	praylii VC	nk™ Jet )R 3001	N°2	2	1"	10	2	United States 19901 Phone: +1 (877) 586	-7839		
		Нор	Starfish	1	3	1"	10.5	3	COPYRIGHT VORTEX AQUATIC	STRUCTURES		
	S	Sprayli VC	nk™ Fur R 3008	nnel	2	1 1/2"	14	4	RENDERINGS AND OTHER CON ARE THE SOLE PROPETY OF VC INTERNATIONAL AND MAY NO	TENTS CONTAINED TENTS CONTAINED TEX AQUATIC ST BE DISSEMINATE	S, D THERI RUCTU D, COP	EIN RES IED,
i		Spray VC	/link™ Fa	an	1	1"	7	5	REPRODUCED OR OTHERWISE WRITTEN CONSENT OF VORTE INTERNATIONAL	USED WITHOUT PI X AQUATIC STRUC	RIOR TURES	
,	Spraylink™ Tunnel N°1 VOR 3054				2	1"	8	6				
	Spraylink™ Arch VOR 3002			4	1"	6	7					
	Sea	Silho VC	uette An )R 7685	gelfish	1	1 1/2"	15	8				
		Spr VC	ay Loop R 0519		2	1 1/2"	15	9				
	Sp	raylinl VC	k™ Tean )R 3061	n N°3	1	1"	11	10				
	Elect	rical Li	ine Conn	ections P	ower					Û		
Т	ō	# Coi	nductors	Gauge/1	Гуре	Nc	ote			Č		
)2-1	20VAC		3	TBD (by Oth	ner) ± 5	20V, 1 Phase, Breaker Rec % Voltage Dr	, 60Hz, 1 commenc rop is Acc	0Amps led ceptable	ar Ar	ide		
Ele	ctrical L	ine Co	onnectior	ns Control	ller Inputs	;				>		
o	# Condu	ctors	Gauge Type	e/		Note				L L		
Ą	2 22 Activator No 4 24 VDC, Max 345 mA, Max 300' (100m) Long (by Installer)						100m)	SO				
	1		1		Pr	oduct Legen	d			a		
				Product Ref.		Product		Qty	ס	d		
	IA			Activator No 4 VOR 0622					С С			
	IB			Drain (By Other)				N.	Ŋ			
	IC			Water Distribution System; Wall Mounted Command Center 2.0			er 1		С р			
				ID1	Mae N	estroPRO Cor 24 out / 12 /OR-33907.3	ntroller in 8200	1		• /		
				ID2	Mae	estroPRO Pow /OR-33907.3	ver Box 200	1				
				IE	2	City Water (by Installe	Line er)	1				
				IF	6" Drain	line To mun (by Installe	icipal Dra er)	ain 1	Project Location			
	1.		- <b>IG</b>	IG	4" TYP I Connect Ensure P to	Drain Line Wi ed to Draina -Trap is Belo Prevent Free	ith Strain ge Syste w Frost L ezing.	er m. ine 1	RI Project Number			
	Ť			Zvv	2"	Pressure Reg (by Vortex	julator	1	42622			
(I	D1				2"	Backflow Pre (by Vortex	venter ()	1	Version VB			
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Page #

PE-001

Ref	Product	Qty
IA	Activator N°4 VOR 0622	1
В	Hop Starfish VOR 7254	3
С	Spraylink™ Team N°3 VOR 3061	1
D	Spraylink™ Tunnel N°1 VOR 3054	2
Е	Spray Loop VOR 0519	2
F	Spraylink™ Funnel VOR 3008	2
G	Spraylink™ Fan VOR 3004	1
Н	Sea Silhouette Angelfish VOR 7685	1
Ι	Spraylink™ Arch VOR 3002	7
J	Spraylink™ Jet N°2 VOR 3001	2

![](_page_23_Figure_1.jpeg)

![](_page_23_Picture_2.jpeg)

![](_page_23_Picture_3.jpeg)

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