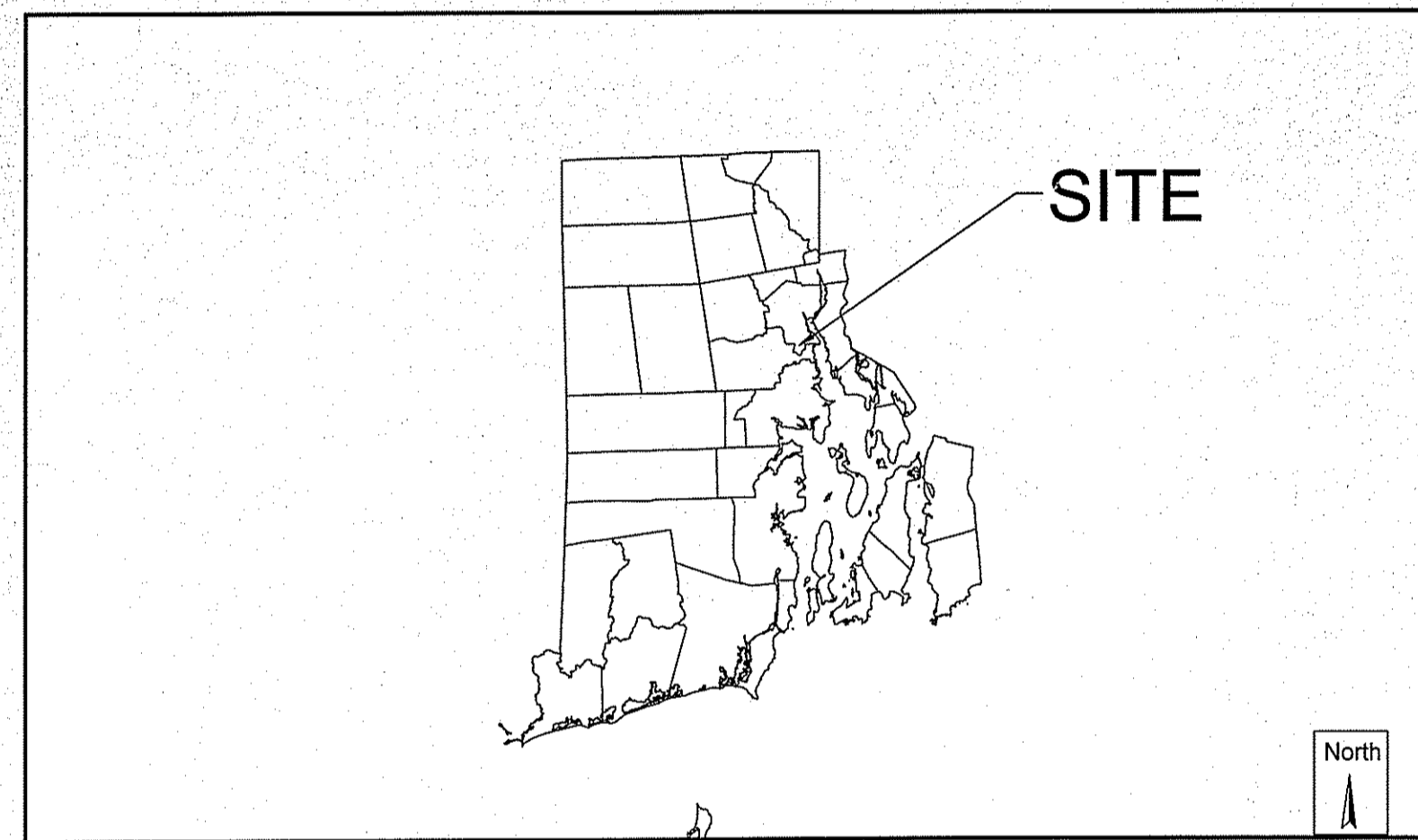
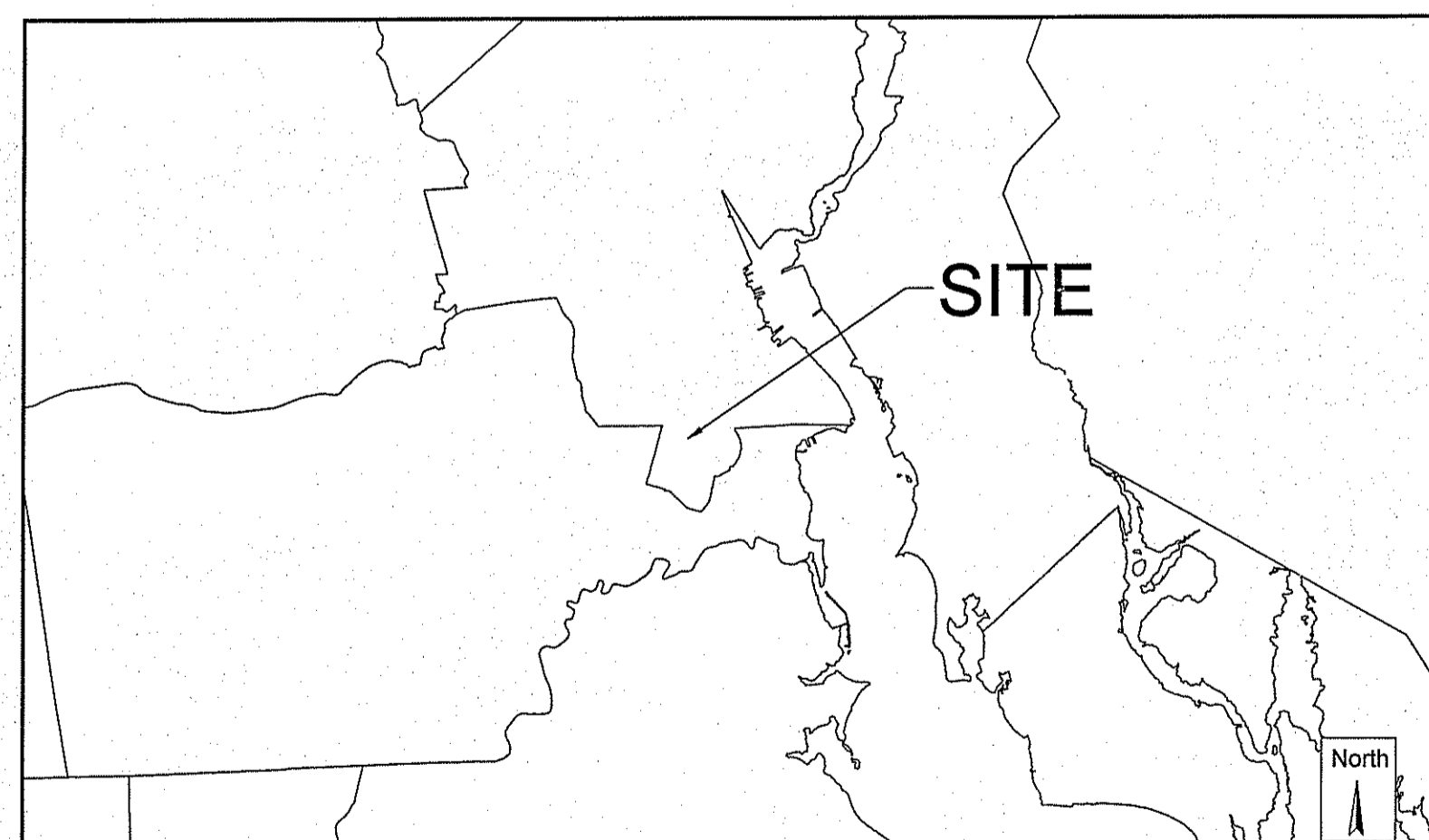


JAPANESE GARDEN-WETLAND FILTER ROGER WILLIAMS PARK PROVIDENCE, RI PERMITTING SET APRIL 2018



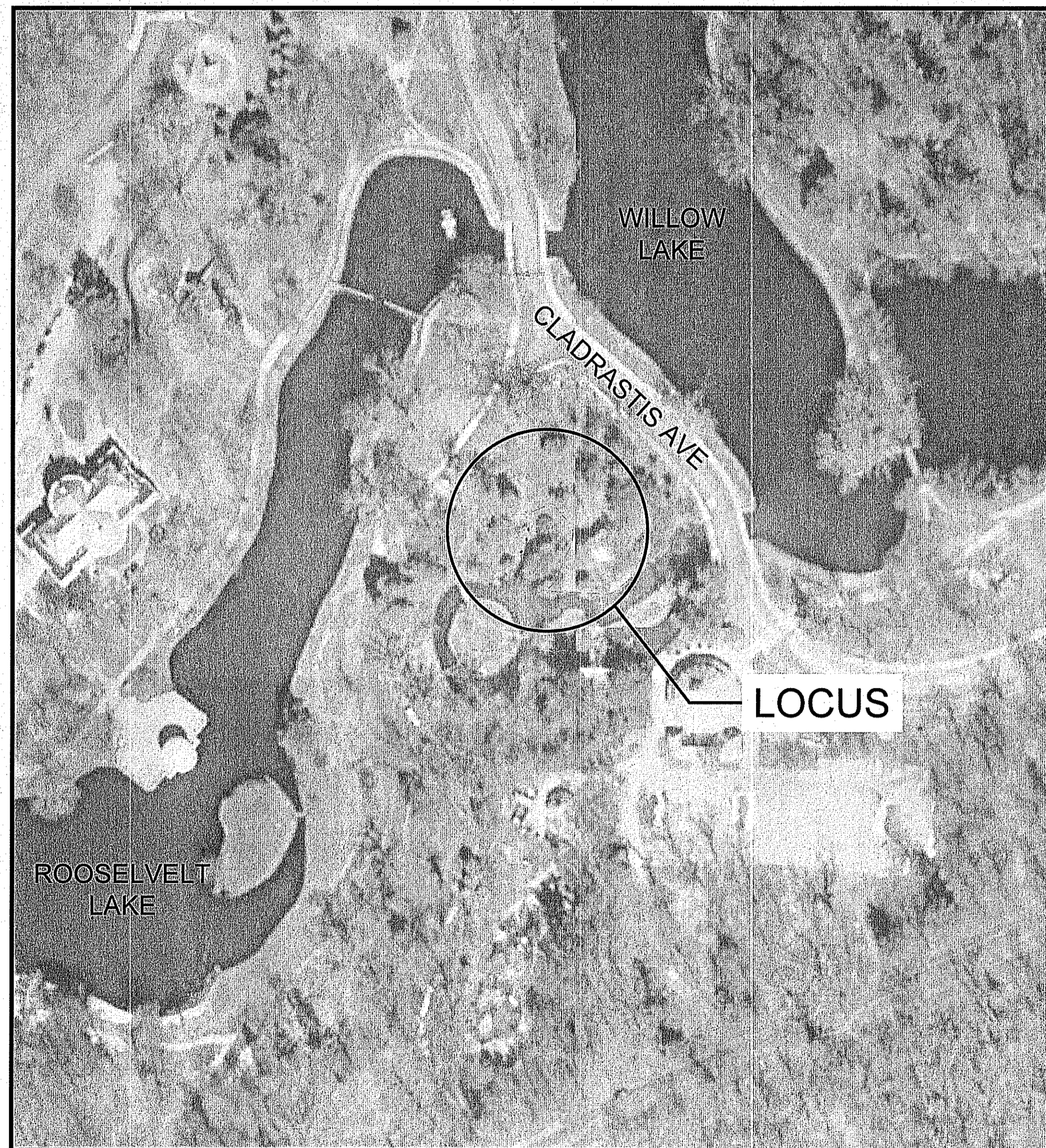
RHODE ISLAND

Graphic Scale
0 75000
SCALE IN FEET
1:75000



TOWN

Graphic Scale
0 12000
SCALE IN FEET
1:12000



VICINITY MAP

Graphic Scale
1-inch = 100-feet

| Sheet List Table | |
|------------------|------------------------------|
| Sheet Number | Sheet Title |
| 1 | COVER SHEET |
| 2 | EXISTING CONDITIONS |
| 3 | OVERALL LAYOUT PLAN |
| 4 | SITE LAYOUT AND GRADING PLAN |
| 5 | CONSTRUCTION DETAILS (1) |
| 6 | CONSTRUCTION DETAILS (2) |
| 7 | LANDSCAPE PLAN |

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 14 2018 FILE # 18-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

Plan Set:
**JAPANESE GARDEN-WETLAND FILTER
ROGER WILLIAMS PARK
PROVIDENCE, RI**

Prepared For:
Providence Parks Department
1000 Elmwood Avenue
Providence, RI
(401)-427-4004

Prepared By:
Horsley Witten Group, Inc.
Sustainable Environmental Solutions
www.horsleywitten.com

Headquarters: 90 Route 6A, Sandwich, MA 02563, (508) 833-6600 voice, (508) 833-3150 fax
294 Washington Street Suite 801, Boston, MA 02108, (617) 263-8193 voice, (617) 574-4799 fax
55 Dorrance Street Suite 202, Providence, RI 02906, (401) 272-1717 voice, (401) 439-8368 fax
113 R2 Water Street, Exeter, NH 03833, (603) 658-1660 voice

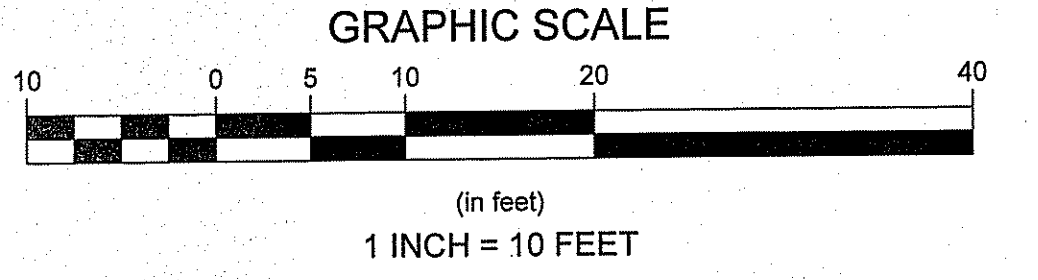
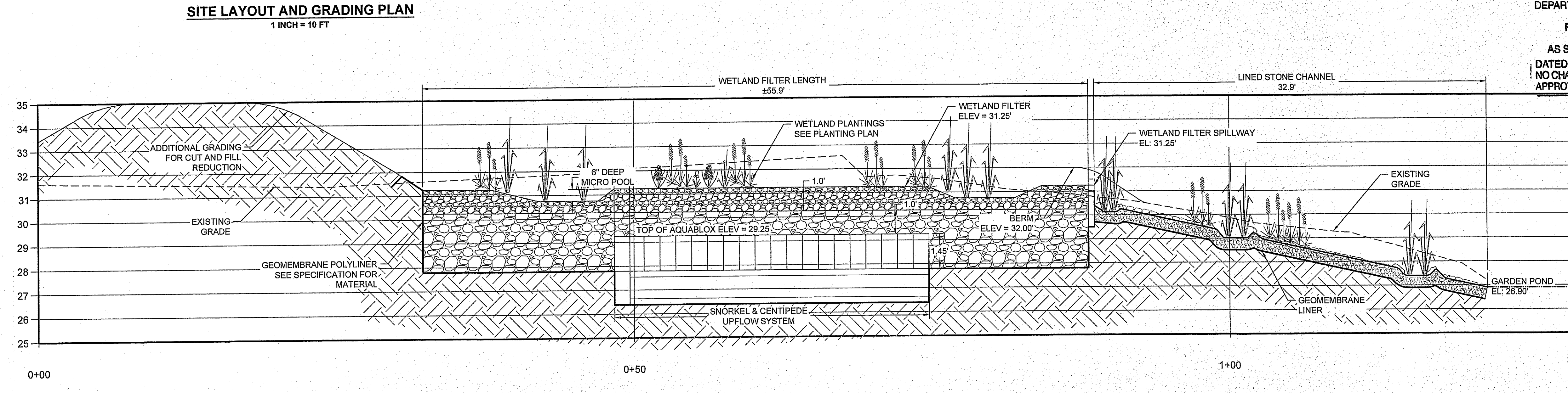
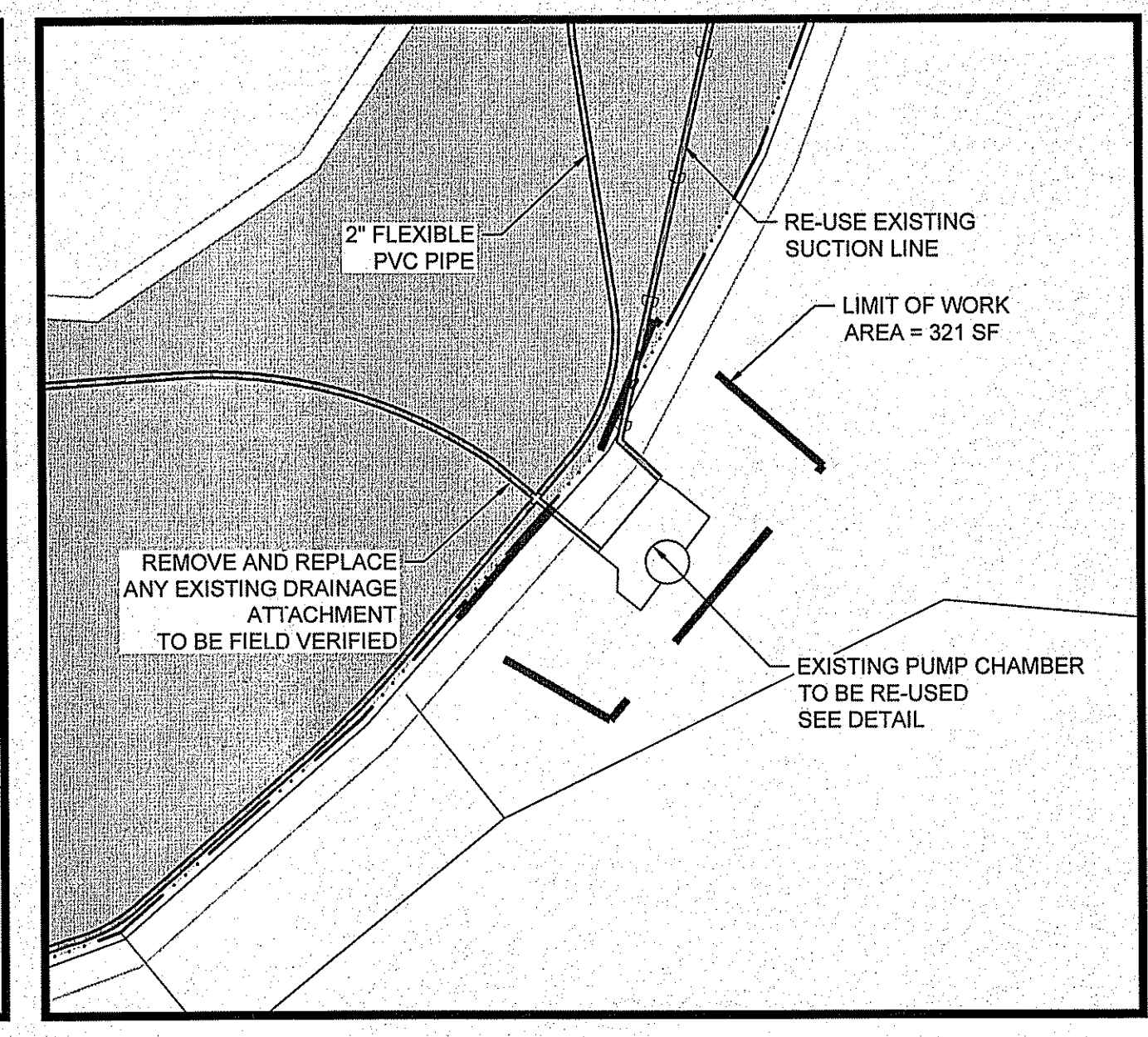
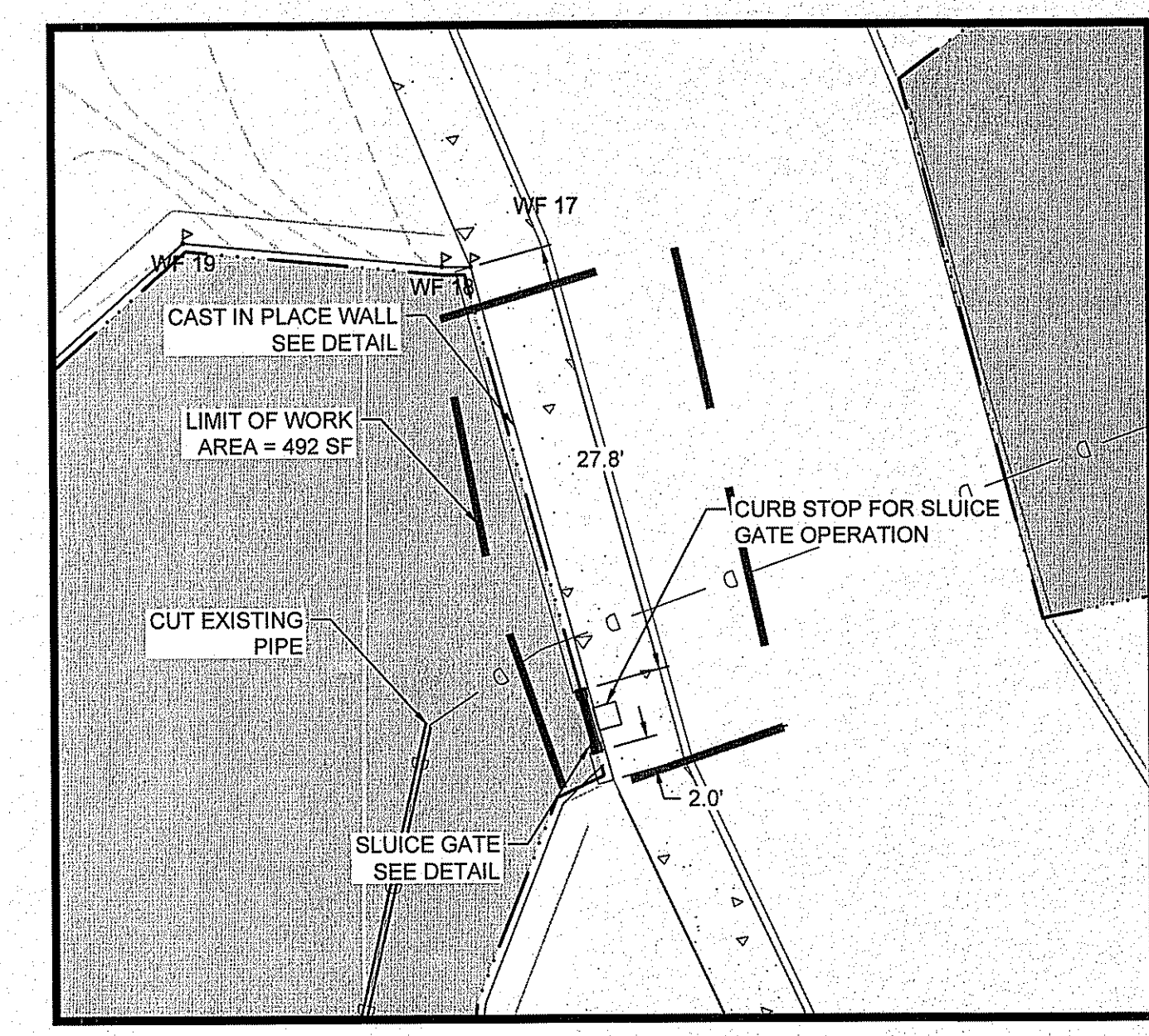
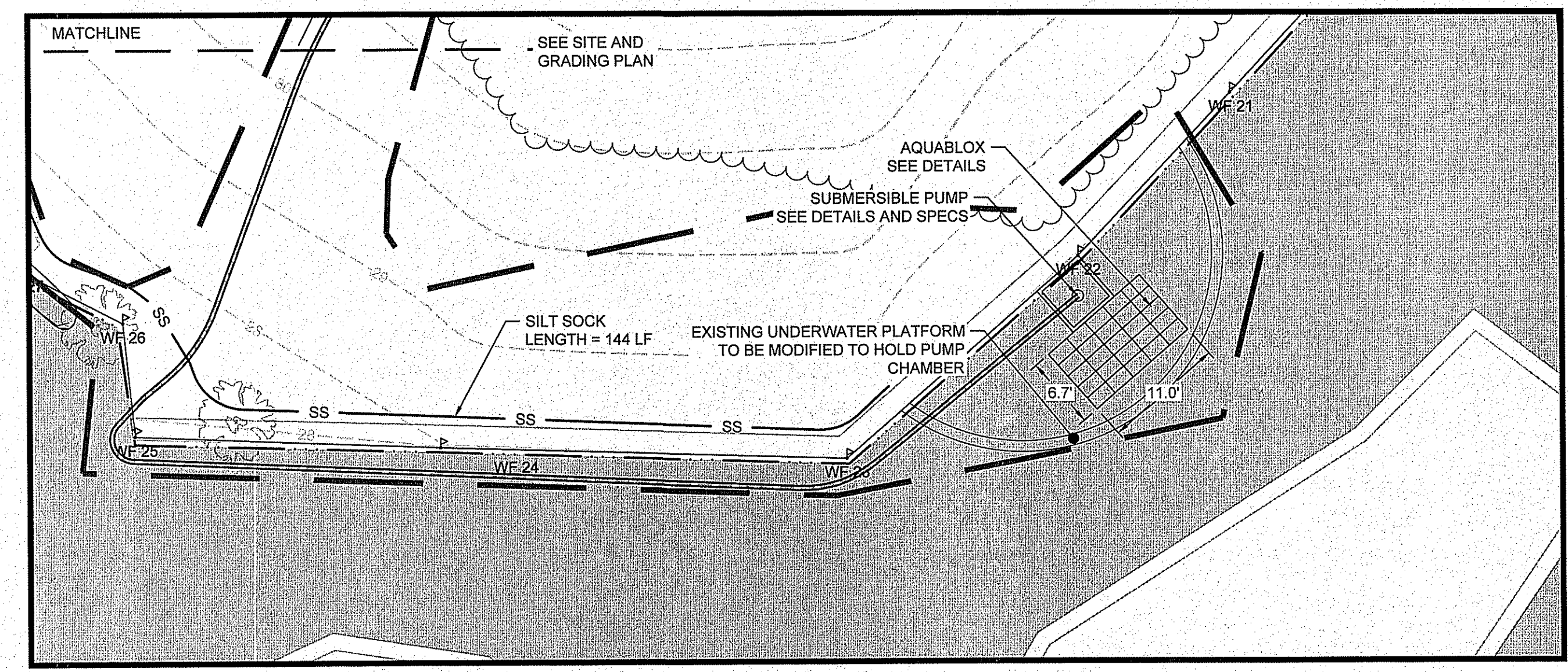
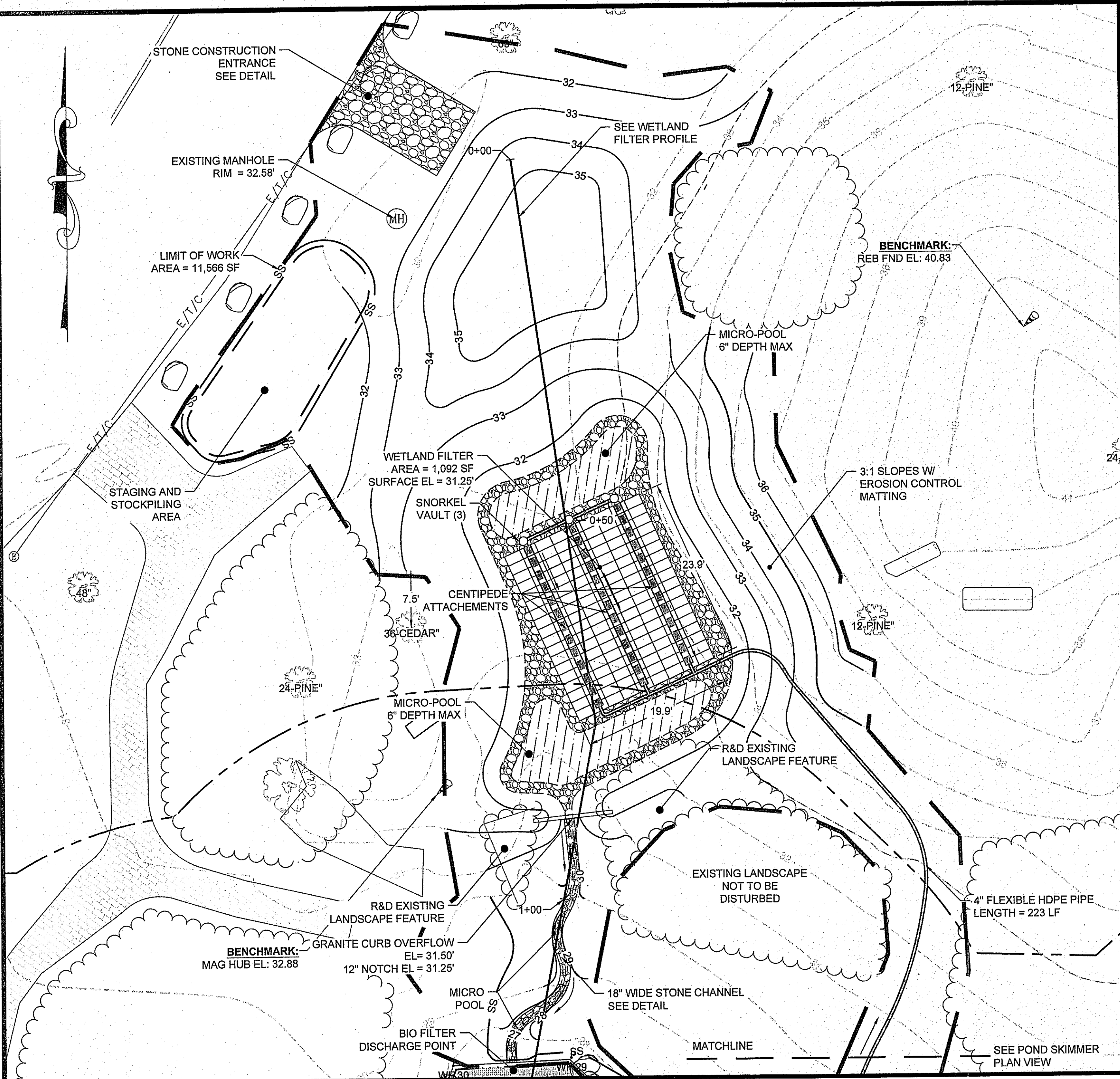
Date Issued: APRIL 2018
Designed By: GSG
Drawn By: GSG
Checked By: BRK

Registration:
BRIAN R. KUCHAR
No. 03776
REGISTERED PROFESSIONAL ENGINEER
CIVIL

| Rev. | Date | By | Appr. | Description |
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Project Number: 17021A
Sheet Number: 1 of 7
Drawing Number: C-1

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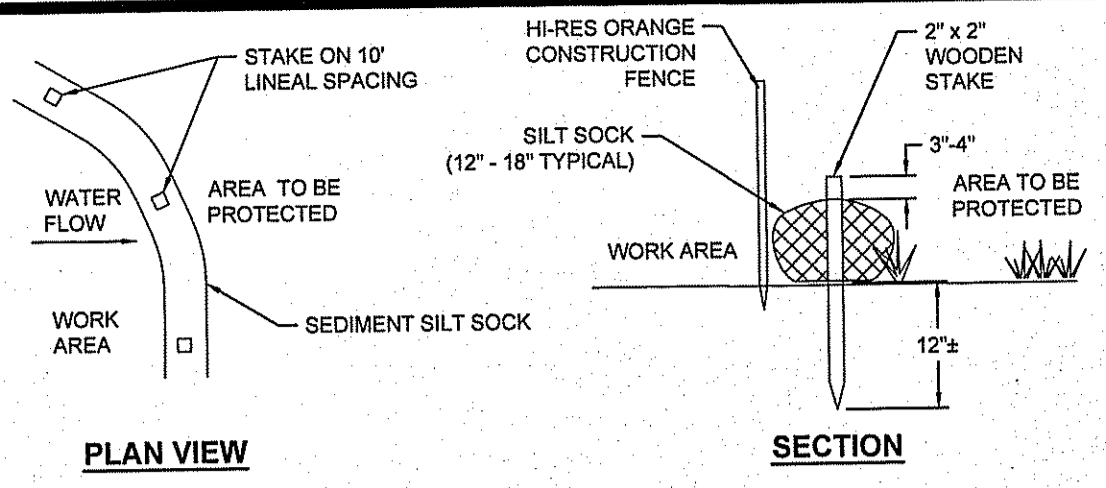


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Wang, Freeman

| <p>Revisions</p> <table border="1"> <tr> <th>Rev</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | | Rev | Date | By | Description | | | | | | | | | | | | | | | | |
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| <p>Horsley Witten Group, Inc. Sustainable Environmental Solutions 100 Elmwood Avenue Providence, RI 02904 Tel: (401) 427-4004 Fax: (401) 427-4004 Date: JANUARY 2018</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>Project Number: 17021A Sheet: 4 of 7 Sheet Number: C-4</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>Prepared For: Department of Environmental Management 100 Elmwood Avenue Providence, RI 02904 Phone: (401) 427-4004 Fax: (401) 427-4004</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>Survey Provided By: Horsley Witten Group, Inc. 90 Route 6A Salem, RI 02826 Tel: (401) 833-3169 Fax: (401) 833-3169 Date: JANUARY 2018</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>Plan Set: JAPANESE GARDEN-WETLAND FILTER ROGER WILLIAMS PARK PROVIDENCE, RI</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>Plan Title: SITE LAYOUT AND GRADING PLAN</p> | | | | | | | | | | | | | | | | | | | | | |
| <p>Checked By: BRK Drawn By: GSG Designed By: GSG Date: APRIL 2018</p> | | | | | | | | | | | | | | | | | | | | | |

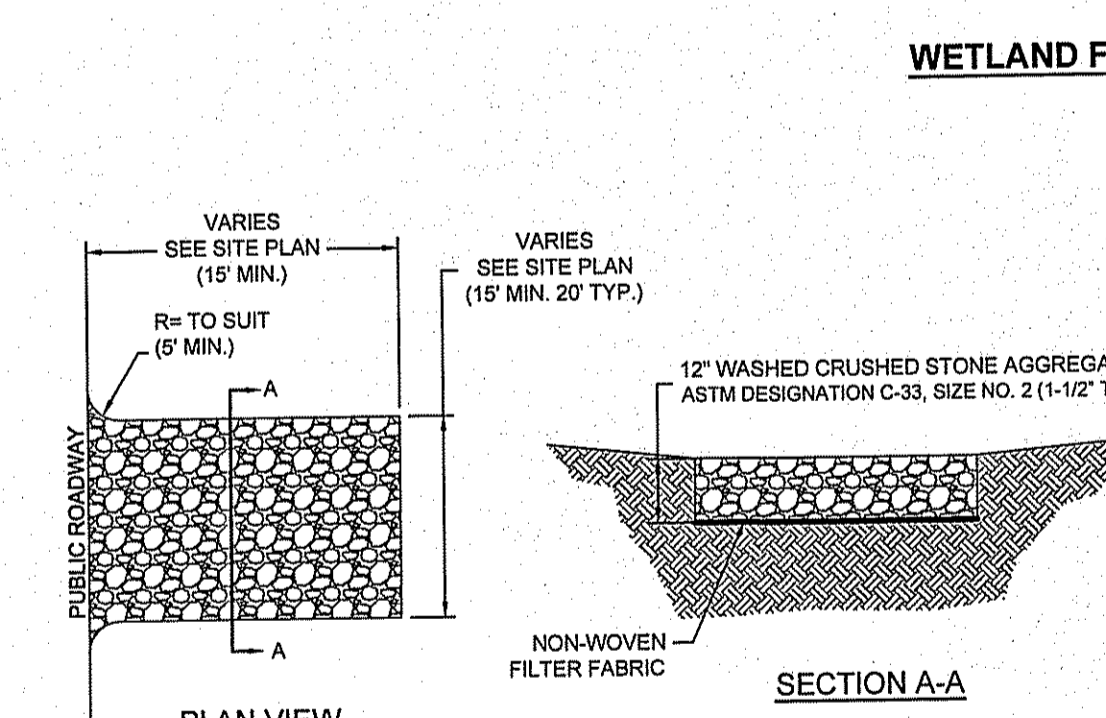
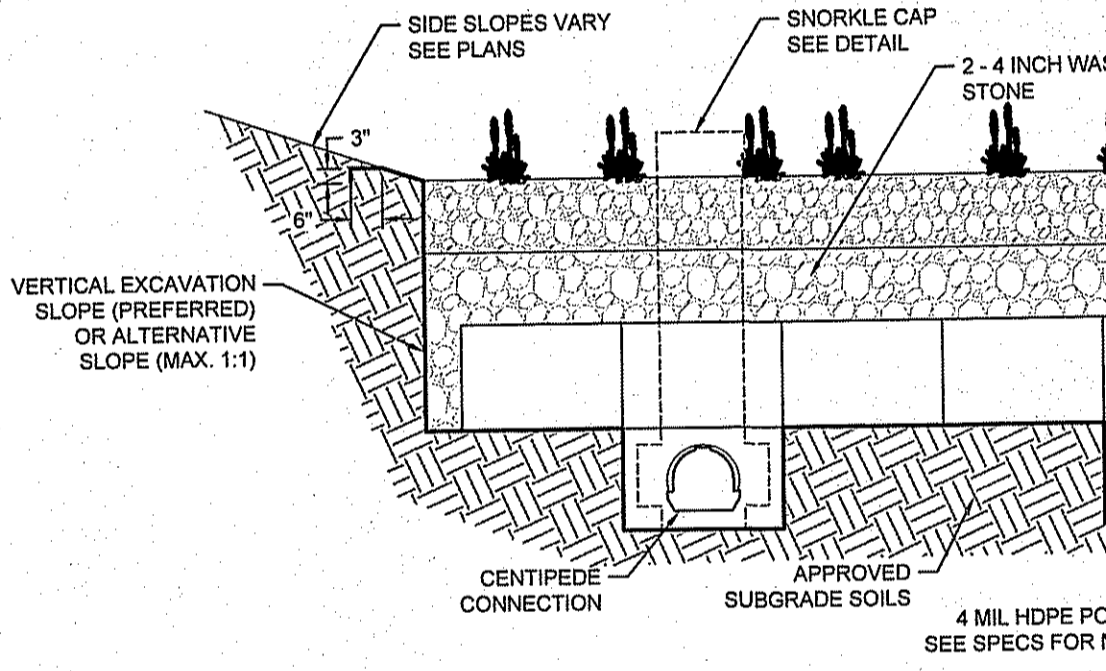
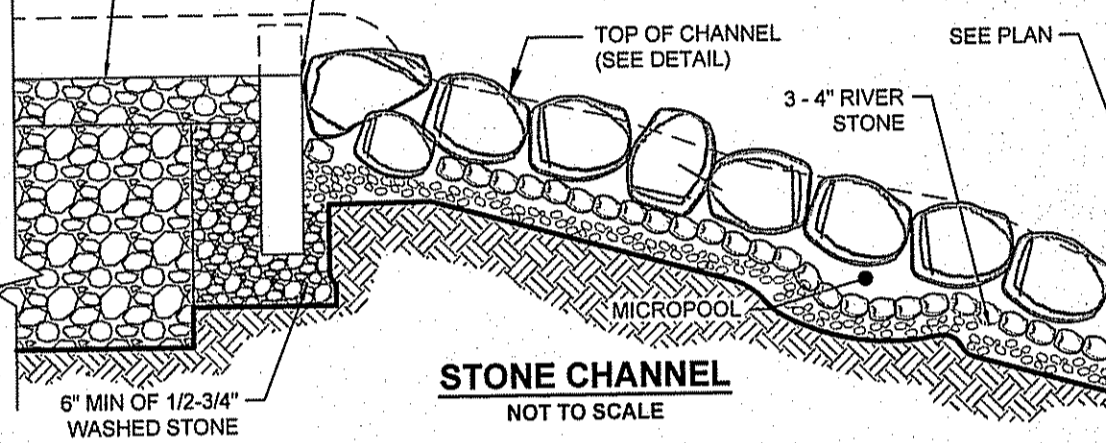
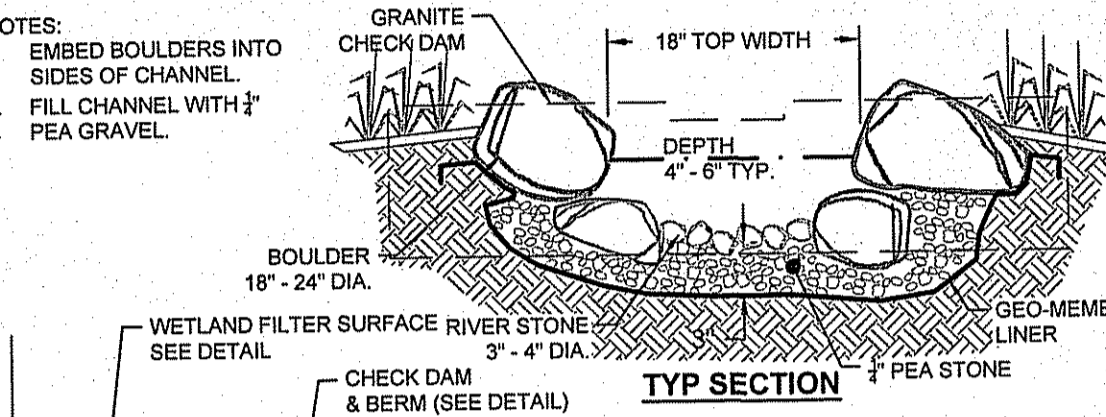
BIO FILTER OPERATION & MAINTENANCE:

- THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER INSPECTION AND MAINTENANCE OF ALL BIO FILTER COMPONENTS AS OUTLINED BELOW UNTIL SUCH TIME THAT THE POND WATER QUALITY AND ASSOCIATED UTILITIES ARE ACCEPTED BY THE OWNER AND THE ENGINEER.
- INSPECT AND RESTORE/CLEAN ALL FACILITIES (SKIMMER, SNORKEL & CENTIPEDE, DISCHARGE CHANNEL) OF SEDIMENT AND DEBRIS PRIOR TO THE OWNER'S ACCEPTANCE.
 - REMOVE AND DISPOSE ALL SEDIMENT AND DEBRIS TO A PRE-APPROVED LOCATION AS APPROVED BY THE PARK.
 - REFER TO THE OPERATION AND MAINTENANCE PLAN FOR ADDITIONAL INFORMATION PERTAINING TO BIO FILTER OPERATION AND MAINTENANCE REQUIREMENTS.
 - SPECIFIC ANNUAL MAINTENANCE REQUIRED DURING CONSTRUCTION AS FOLLOWS:



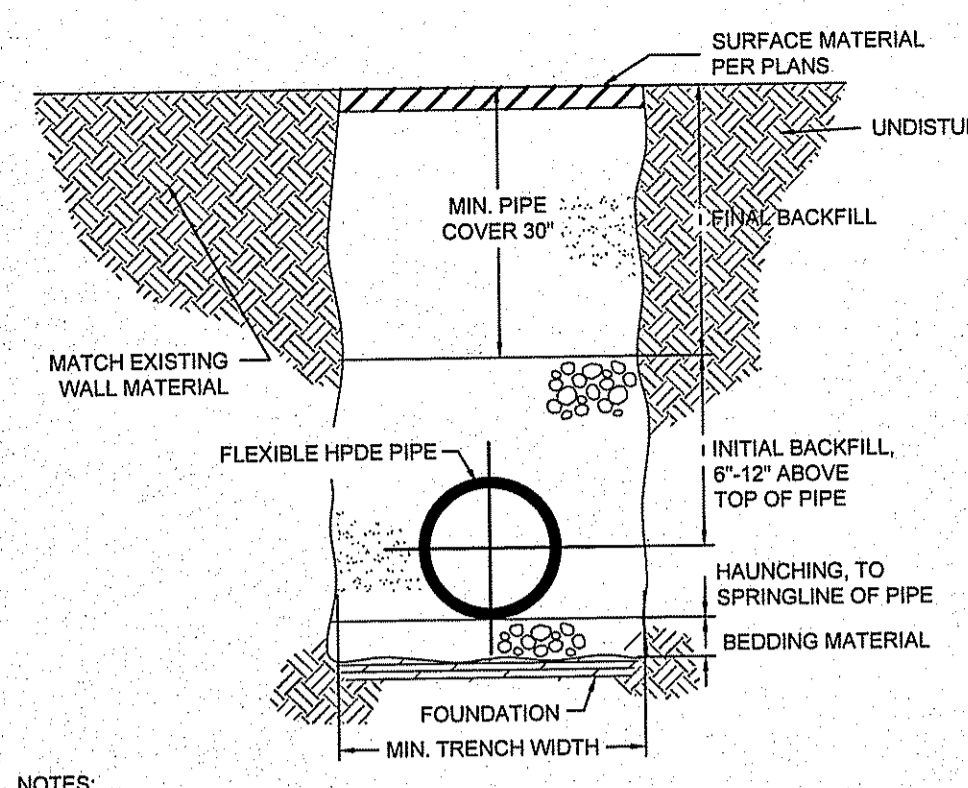
- NOTES:**
- SILT SOCK MANUFACTURER TO BE SILT SOXX OR ENGINEER APPROVED EQUAL.
 - ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
 - SEDIMENT SILT SOCK TO BE FILLED WITH LEAF COMPOST AND/OR WOODY MULCH PER MANUFACTURER'S REQUIREMENTS.
 - FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE, AS APPROVED BY THE ENGINEER.

SEDIMENT SILT SOCK
NOT TO SCALE



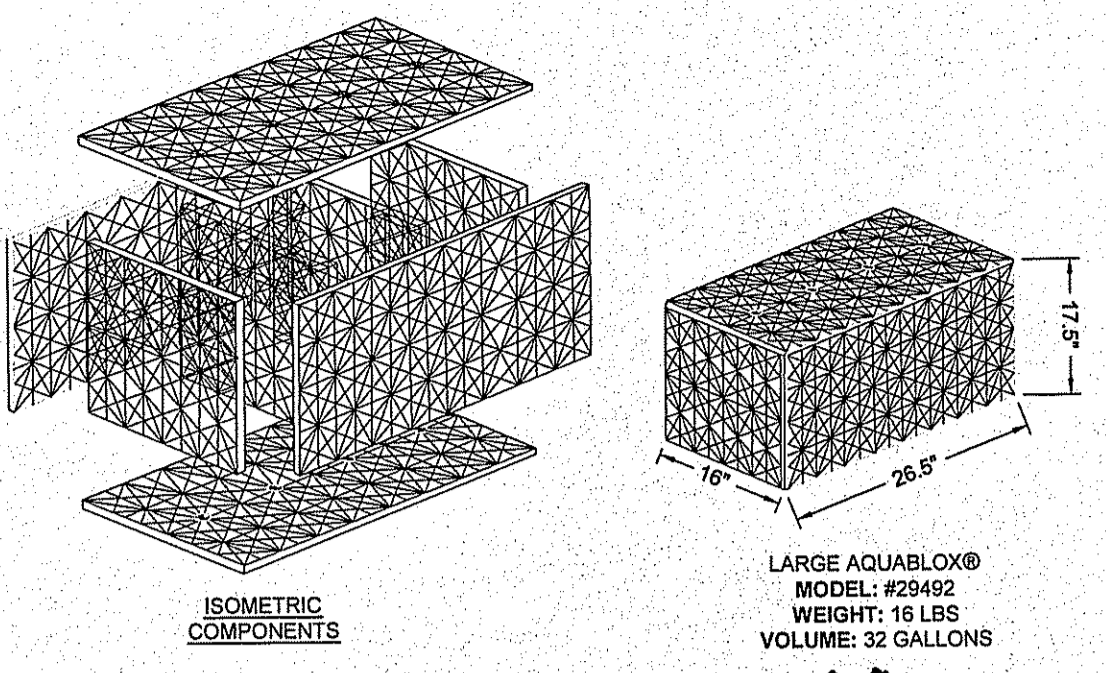
- NOTE:**
- STONE CONSTRUCTION ENTRANCE(S) TO REMAIN UNTIL INSTALLATION OF PAVEMENT SUB-BASE IS TO BEGIN.
 - SEE SITE PLAN FOR LOCATION & ACTUAL DIMENSIONS.

STONE CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE

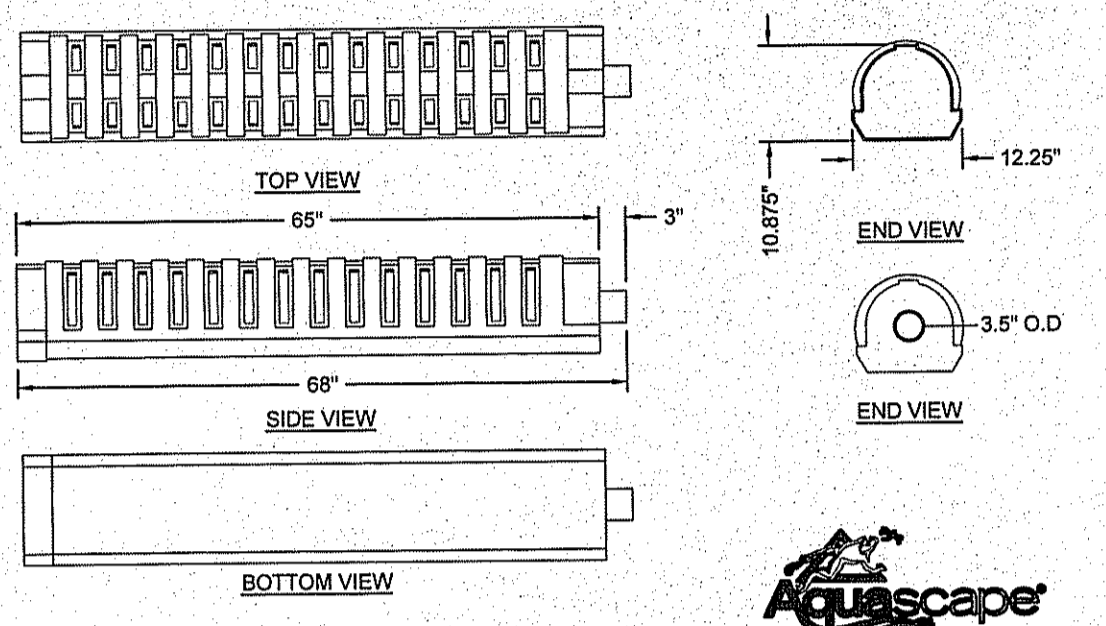


- NOTES:**
- INSTALL HDPE PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE FITTING MANUFACTURER. SUCH INSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS AND ALLOWANCE FOR THERMAL EXPANSION.
 - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A SUITABLE COMPACTED GRAVEL MATERIAL OR AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
 - BEDDING, HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL CONSIST OF CLEAN, HARD, PARTICLES OF GRAVEL MEETING THE FOLLOWING:
- | SIEVE SIZE | PERCENT PASSING | NOMINAL Ø | TRENCH WIDTH (in (mm)) |
|------------|-----------------|-----------|------------------------|
| 3/4" | 85-95 | 9 (200) | 36 (915) |
| #4 | 5-15 | 10 (250) | 36 (915) |
| #5 | 0-2 | 12 (300) | 36 (915) |
| | | 15 (375) | 42 (1070) |
| | | 18 (450) | 60 (1520) |
- UNLESS OTHERWISE APPROVED BY ENGINEER

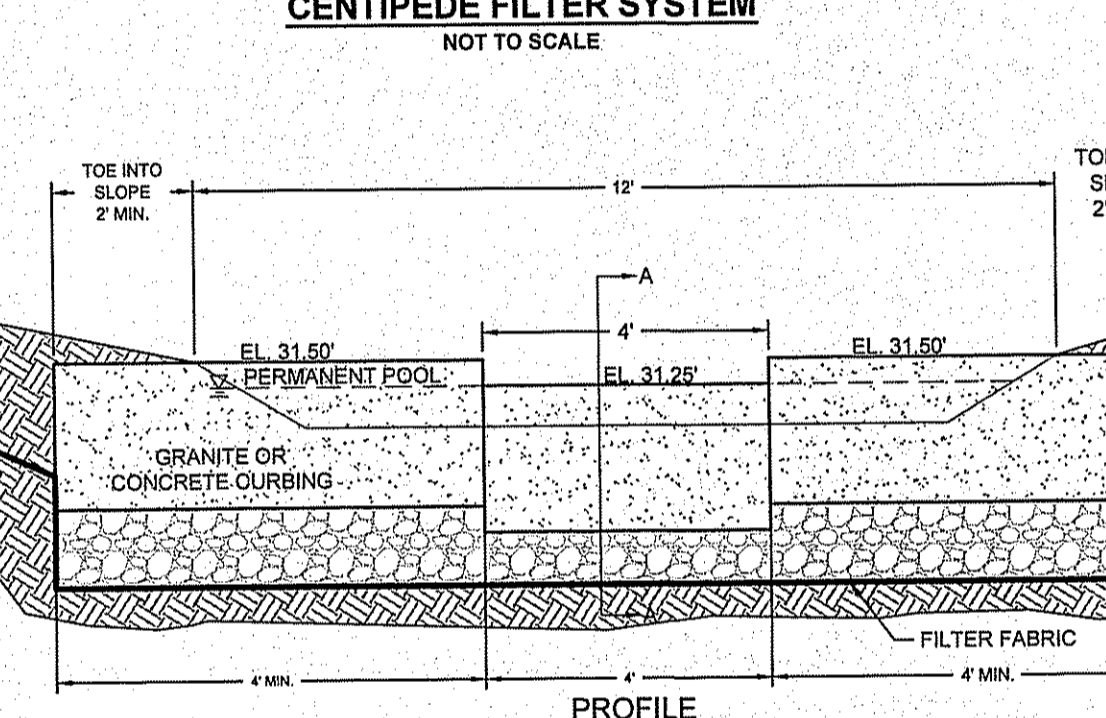
DRAINAGE PIPE TRENCH
NOT TO SCALE



AQUABLOX
NOT TO SCALE

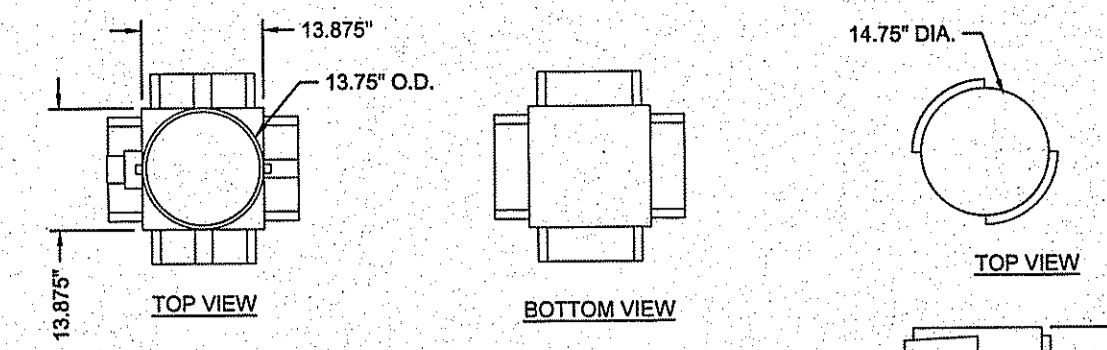


CENTIPEDE FILTER SYSTEM
NOT TO SCALE

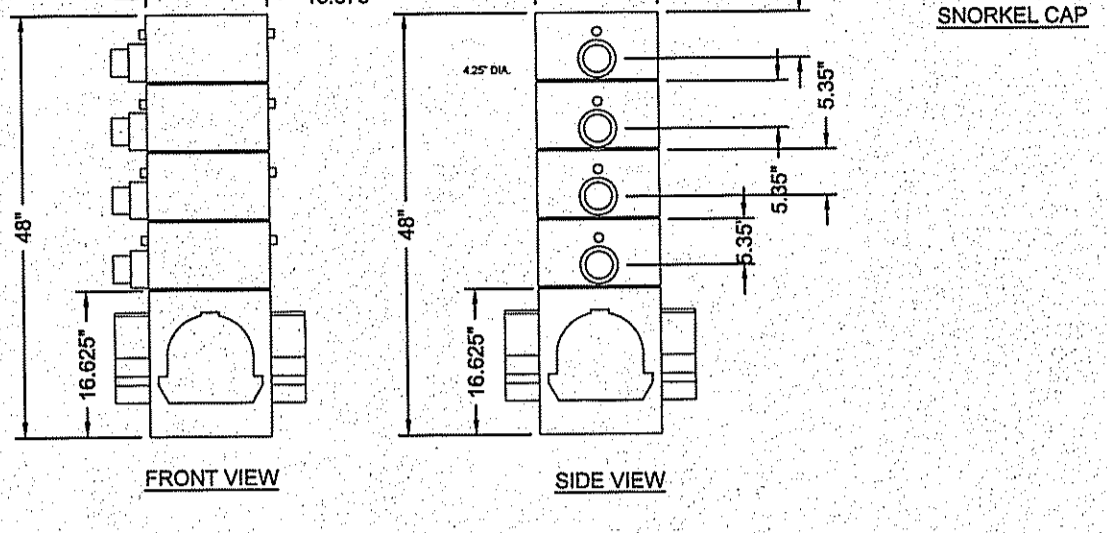


- NOTE:**
- KEY CURBING INTO THE BERM BANKS AND EXTEND INTO THE ABUTMENTS A MINIMUM OF 2' TO PREVENT FLOW FROM DIVERTING THE CHECK DAM.
 - GROUT ABUTTING SECTIONS OF CURBING.

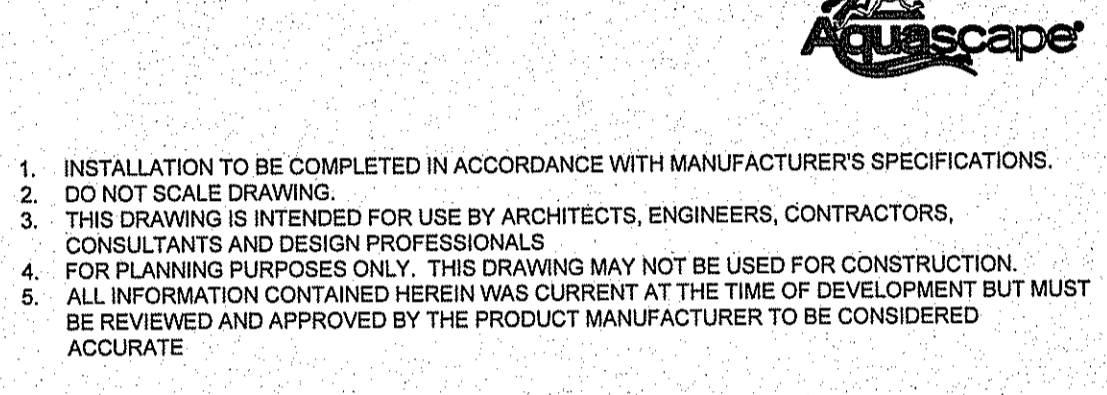
WETLAND FILTER SPILLWAY
NOT TO SCALE



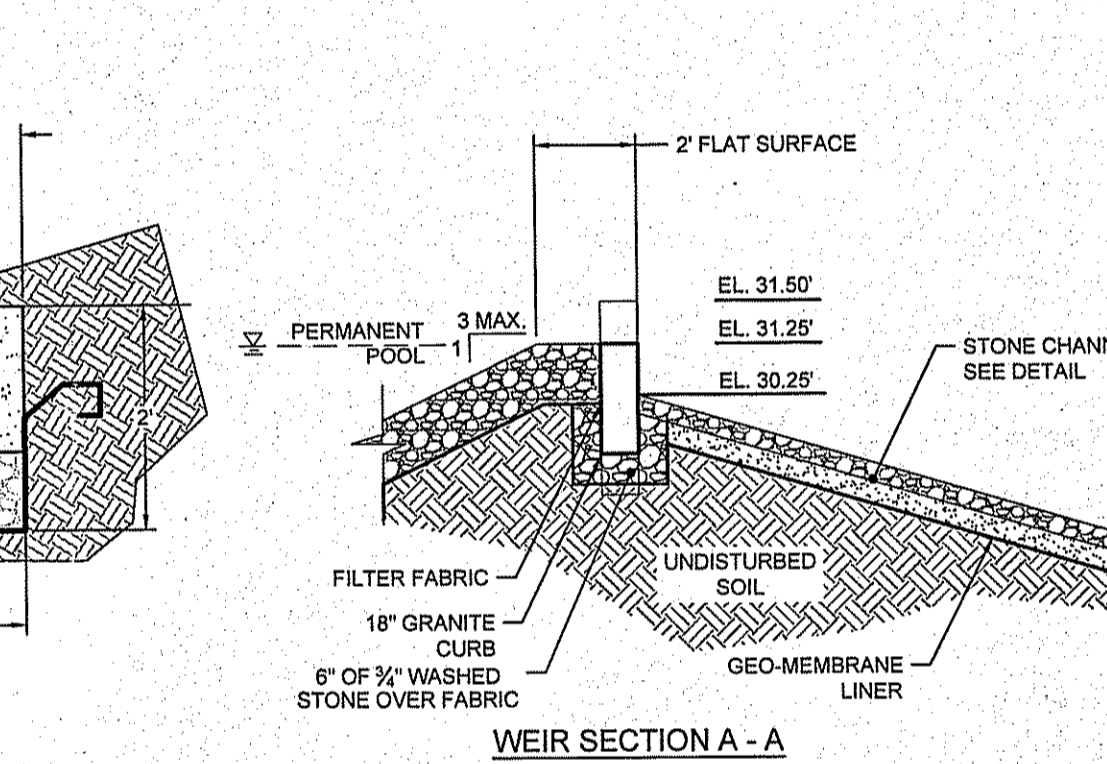
SNORKEL CAP



SNORKEL FILTER SYSTEM
NOT TO SCALE



WEIR SECTION A-A



JAPANESE GARDEN WETLAND FILTER
NOT TO SCALE

EROSION & SEDIMENT CONTROL NOTES:

- DESIGNATE THE SITE CONSTRUCTION FOREMAN AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS AND IMPLEMENTATION OF ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
- INSTALL ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES AS INDICATED ON DRAWINGS IN CONSULTATION WITH THE ENGINEER BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN. INSPECT, MAINTAIN, REPAIR AND REPLACE EROSION CONTROL MEASURES, AS NECESSARY, DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. THE SITE PERIMETER EROSION CONTROLS ARE THE DESIGNATED LIMIT OF WORK. INFORM ALL PERSONNEL WORKING ON THE PROJECT SITE THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
- MAINTAIN A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT SOCK) ON-SITE AT ALL TIMES.
- PROTECT THE ADJACENT RESOURCE AREA FROM SEDIMENTATION DURING PROJECT CONSTRUCTION UNTIL ACCEPTANCE BY THE OWNER & IN CONFORMANCE WITH THE ORDER OF CONDITIONS.
- PROVIDE CONSTRUCTION EXITS AS INDICATED ON DRAWINGS TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. CLEAN AND/OR REPLACE THE CRUSHED STONE PAD, AS NECESSARY, TO MAINTAIN ITS EFFECTIVENESS.
- KEEP THE LIMIT OF CLEARING, GRADING AND DISTURBANCES TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL. IF TREES ARE TO BE CUT ON THE ENTIRE SITE, CLEAR AND GRUB ONLY THOSE AREAS WHICH ARE ACTIVELY UNDER CONSTRUCTION. PROPERLY INSTALL THE SEDIMENTATION CONTROLS PRIOR TO BEGINNING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK.
- MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, USE BEST PROFESSIONAL JUDGEMENT AND GOOD CONSTRUCTION PRACTICES WHEN SCHEDULING CONSTRUCTION ACTIVITIES AND ENSURE THE NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
- INSPECT EROSION AND SEDIMENT CONTROL DEVICES AND STABILIZED SLOPES ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF .25 INCH OR GREATER. REPAIR IDENTIFIED PROBLEMS WITHIN 24 HOURS TO ENSURE EROSION AND SEDIMENT CONTROLS ARE IN GOOD WORKING ORDER. RESET OR REPLACE MATERIALS AS REQUIRED.
- SURROUND THE PERIMETER OF SOIL STOCKPILES WITH SILT SOCK, SILT FENCE, STRAWBALES, OR A COMBINATION OF SILT FENCE WITH STRAWBALE, AS DETERMINED NECESSARY.
- DISTURBED AREAS AND SLOPES MUST NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. 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 TEMPORARILY OR PERMANENTLY CEASED. REINFORCE TEMPORARY AREAS HAVING A SLOPE GREATER THAN 4:1 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 THE ENGINEER.
- CONTAIN ALL SEDIMENT ON-SITE. SWEEP ALL EXITS FROM THE SITE AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. SWEEP PAVED AREAS AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS ACCUMULATED DURING SITE CONSTRUCTION.
- REMOVE ACCUMULATED SEDIMENT FROM ALL TEMPORARY PRACTICES AND DISPOSE OF IN A PRE-APPROVED LOCATION.
- PROVIDE ON SITE OR MAKE READILY AVAILABLE THE NECESSARY EQUIPMENT AND SITE PERSONNEL DURING CONSTRUCTION HOURS FOR THE DURATION OF THE PROJECT TO ENSURE ALL EROSION AND SEDIMENTATION CONTROL DEVICES ARE PROPERLY MAINTAINED AND REPAIRED IN A TIMELY AND RESPONSIBLE MANNER. IF SITE WORK IS SUSPENDED DURING THE WINTER MONTHS THE CONTRACTOR MUST CONTINUE TO PROVIDE PERSONNEL AND EQUIPMENT EITHER ON SITE OR READILY AVAILABLE TO PROPERLY MAINTAIN AND REPAIR ALL EROSION AND SEDIMENTATION CONTROL DEVICES IN A TIMELY AND RESPONSIBLE MANNER.
- CONTROL DUST BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.

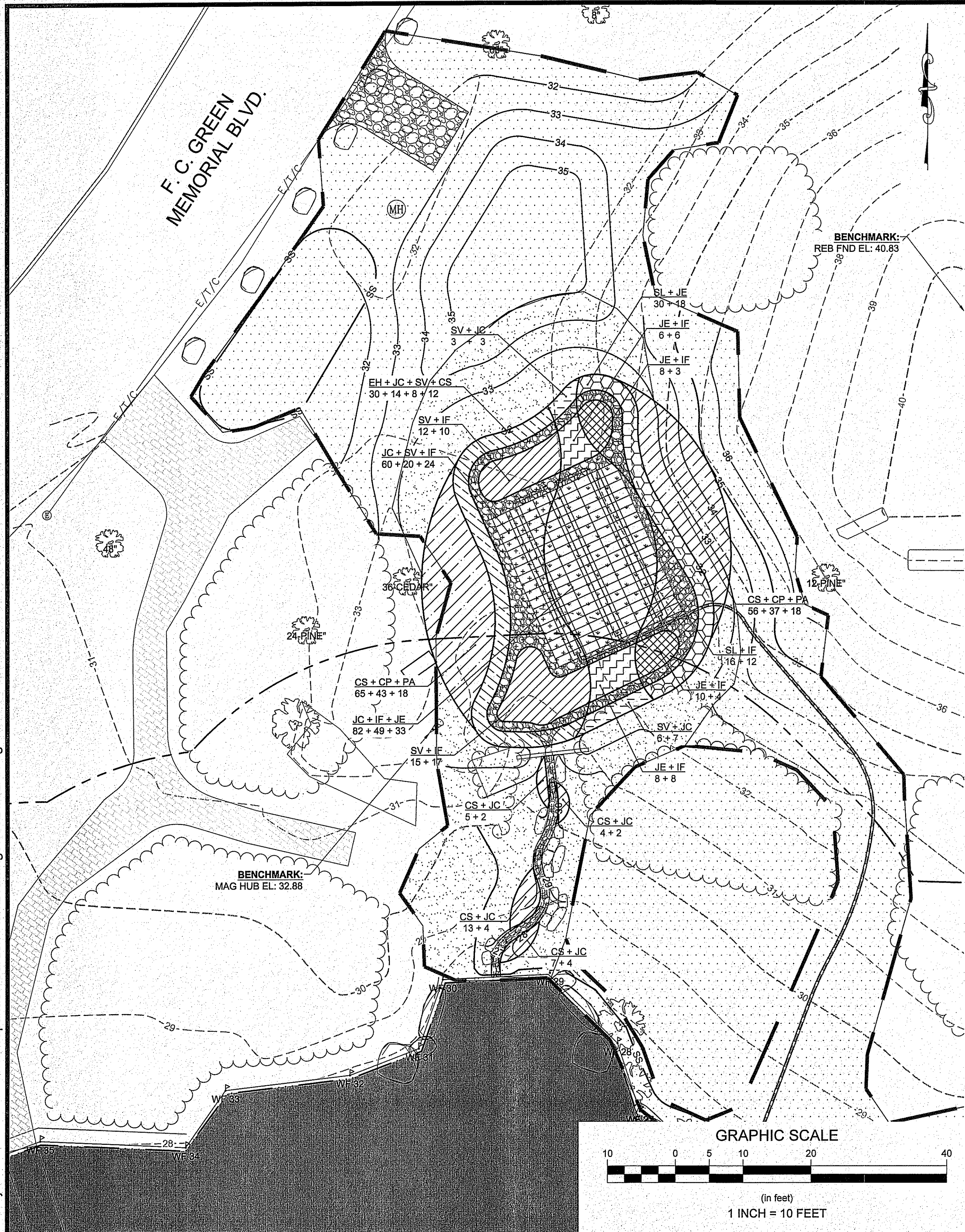
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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| <p>Revisions</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | No. | Date | By | Description | | | | | | | | | | | | | | | | | | | | | <p>Checked By: GSG Drawn By: GSG Designed By: GSG Date: APRIL 2018</p> |
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| <p>Horsley Witten Group, Inc. Sustainable Environmental Solutions www.horsleywitten.com Sandwich, MA 02563 508-833-6600 voice 508-833-3150 fax</p> | | <p>Checked By: GSG Drawn By: GSG Designed By: GSG Date: APRIL 2018</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>JAPANESE GARDEN WETLAND FILTER ROGER WILLIAMS PARK PROVIDENCE, RI</p> | | <p>Prepared For: Providence Parks Department 1000 Elmwood Avenue Providence, RI Phone: (401)-427-4004 Fax: _____</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Survey Provided By: Horsley Witten Group, Inc. 90 Route 6A Sandwich, MA 02563 Phone: (508) 833-6600 Fax: (508) 833-3150 Date: JANUARY 2018</p> | | <p>Registration: BRIAN R. KUCHAR No. 010105778 REGISTERED PROFESSIONAL ENGINEER (CIVIL)</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Project Number: 17021A Sheet: 5 of 7</p> | | <p>Sheet Number: C-5</p> | | | | | | | | | | | | | | | | | | | | | | | | |

PERMITTING SET ONLY
NOT FOR CONSTRUCTION

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- SEED MIX 2: LOW MOW FESCUE MIX (HARMONY)**
TOTAL AREA = 8,000 SF ±
- Lolium perenne*, Perennial Ryegrass
 - Festuca rubra*, Creeping Red Fescue
 - Poa pratensis*, Kentucky Bluegrass
- SEED MIX 2: UPLAND MIX**
TOTAL AREA = 1,550 SF ±
- Grasses:** *Elymus virginicus*, *Schizachyrium scoparium*, *Festuca rubra*, *Andropogon gerardii*, *Sorghastrum nutans*, *Panicum virgatum*
 - Perennials:** *Chamaecrista fasciculata*, *Asclepias tuberosa*, *Zizia aurea*, *Aster laevis*, *Lespedeza capitata*, *Eupatorium purpureum*, *Monarda fistulosa*, *Rudbeckia laciniata*, *Euthamia graminifolia*, *Solidago juncea*

WATERING NOTES:

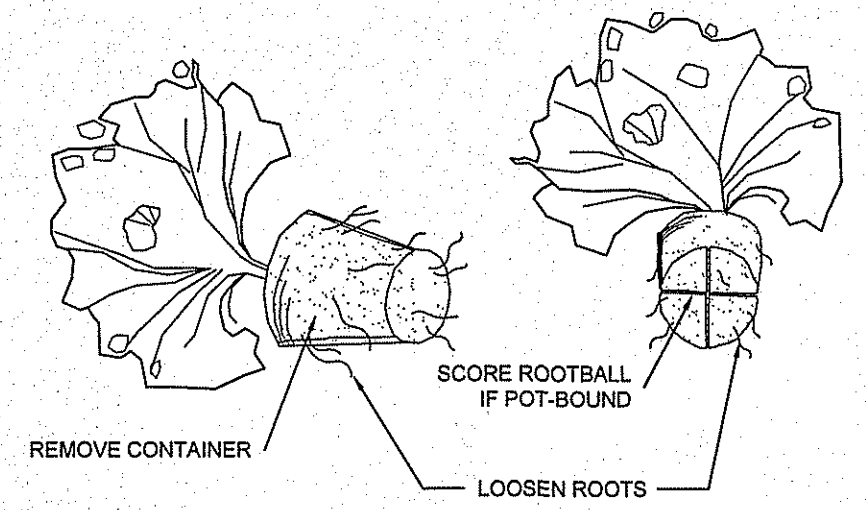
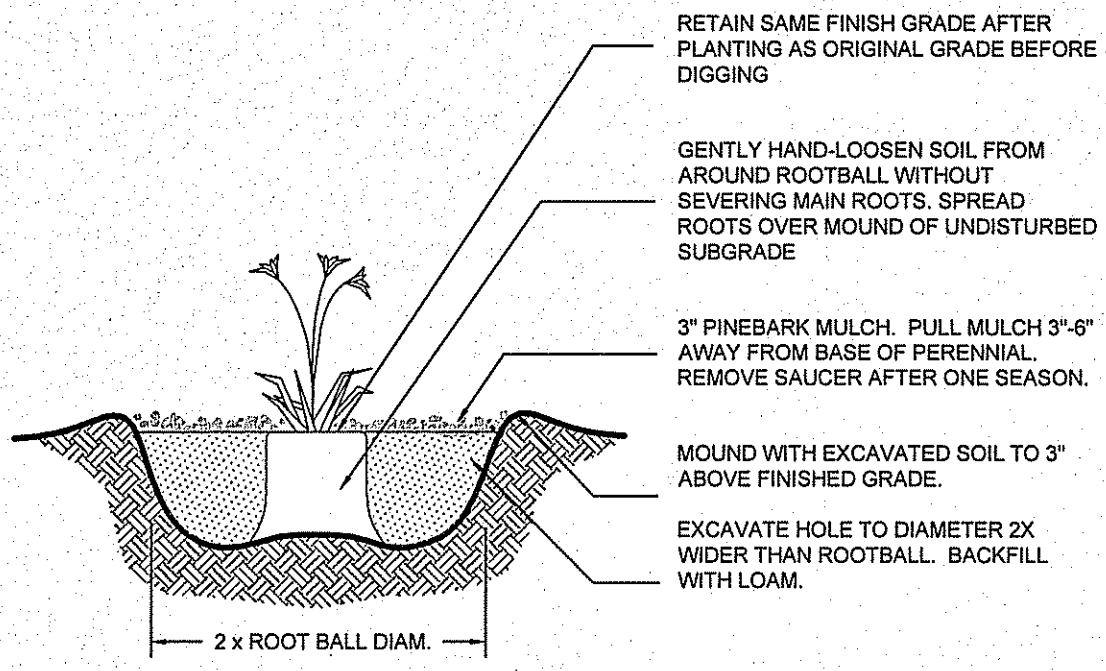
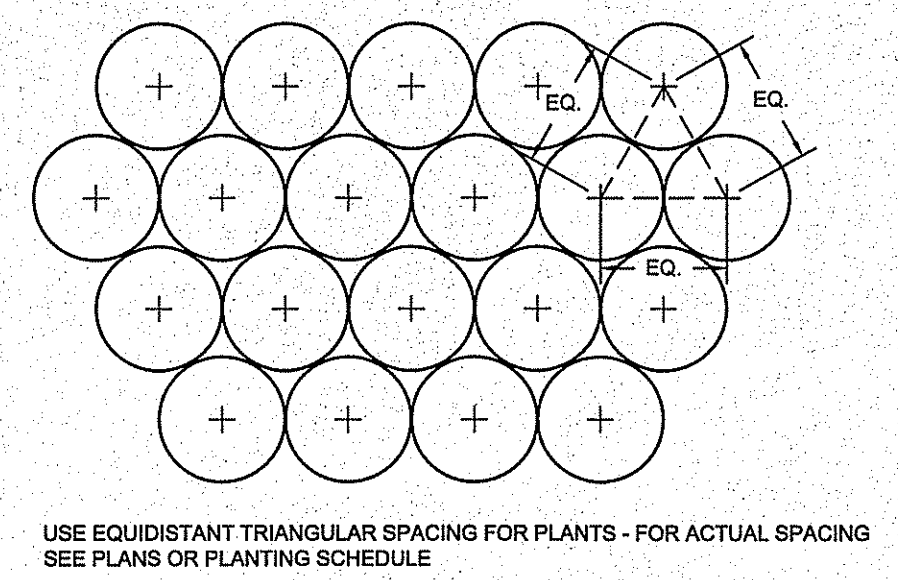
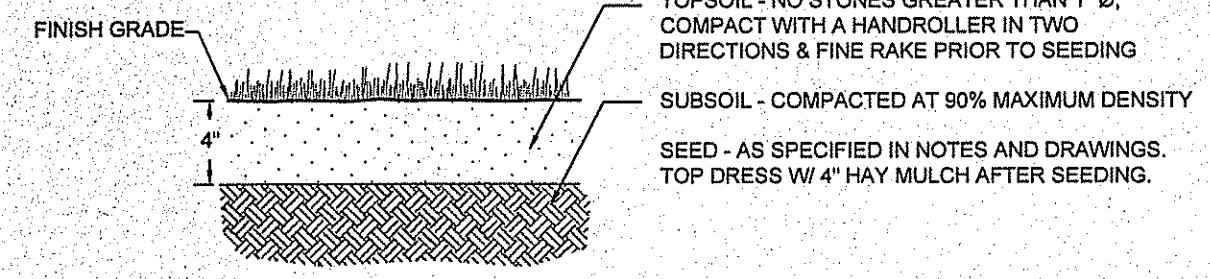
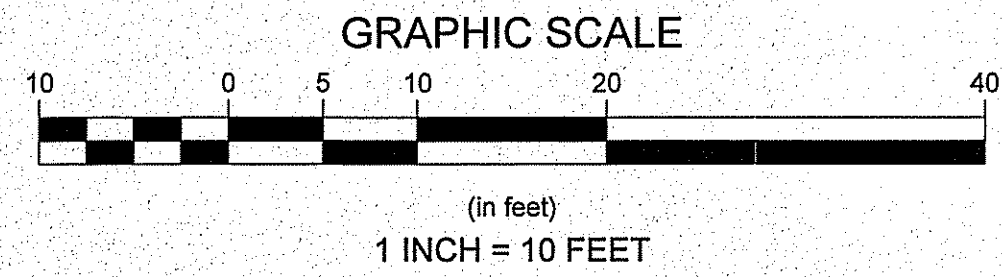
- PROVIDE PROPER PLANT CARE, MAINTENANCE AND WATERING ON SITE UNTIL SUCH TIME AS THE LANDSCAPING IS ACCEPTED BY THE PROPERTY OWNER AS SATISFACTORY PER THE SPECIFICATIONS OR AS DETERMINED BY ANY WRITTEN AGREEMENTS BETWEEN THE CONTRACTOR AND PROPERTY OWNER.
 - ESTABLISH AN APPROPRIATE WATERING SCHEDULE FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDE IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. ADHERE TO THE APPROVED SCHEDULE UNTIL PLANTS ARE FULLY ESTABLISHED.
 - AT A MINIMUM THE NEWLY SEEDED AND/OR HYDROSEEDED LAWNS SHOULD BE WATERED DAILY. SPECIAL CARE SHOULD BE TAKEN TO ENSURE THAT THE LAWN IS NOT SATURATED DURING WATERING. IF AN IRRIGATION SYSTEM IS NOT PROVIDED, A TEMPORARY IRRIGATION SYSTEM OR HANDHELD GARDEN HOSE SHALL BE USED FOR WATERING SEEDED AREAS. THE AREA MUST BE MAINTAINED CONSISTENTLY MOIST FOR THE BEST GERMINATION RESULTS. ADDITIONAL WATERING WILL BE REQUIRED IF PLANTING AND SEEDING OCCUR OUTSIDE OF THE RECOMMENDED PLANTING SEASONS.
- GENERAL SEEDING NOTES:**
- SEND A REPRESENTATIVE SAMPLE OF THE TOPSOIL TO A TESTING LABORATORY FOR STANDARD SOIL ANALYSIS AS DESCRIBED IN THE SPECIFICATIONS. SUBMIT TO THE LANDSCAPE ARCHITECT AND ENGINEER TEST RESULTS WITH RECOMMENDED SOIL TREATMENTS TO PROMOTE PLANT AND GRASS GROWTH. CORRECT DEFICIENCIES IN THE LOAM AND STOCKPILED TOPSOIL AS DIRECTED BY THE TESTING AGENCY.
 - ALL AREAS THAT ARE DISTURBED AND/OR GRADED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 4" MINIMUM DEPTH OF GOOD QUALITY LOAM AND SEEDED AS SPECIFIED ON THE PLANS.
 - PRIOR TO THE PLACEMENT OF TOP SOIL, LOOSEN THE SUBGRADE OF ALL PROPOSED SEEDED AREAS TO A DEPTH OF 8" AND RAKE TO REMOVE STONES LARGER THAN 1 INCH, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE TO AN OFF-SITE LOCATION.
 - DO NOT SPREAD TOPSOIL IF THE SUBGRADE IS FROZEN, EXCESSIVELY WET, COMPACTED OR NOT PROPERLY PREPARED PER THE NOTES AND SPECIFICATIONS.
 - ALL DISTURBED AREAS NOT CALLED OUT TO BE PLANTED ARE TO BE SEEDED WITH SEED MIX 1.

GENERAL PLANTING NOTES:

- THE FOLLOWING NOTES ARE PROVIDED AS GENERAL PLANTING GUIDELINES ONLY. THOROUGHLY REVIEW THE PROJECT SPECIFICATIONS FOR ALL LANDSCAPE REQUIREMENTS PRIOR TO THE COMMENCEMENT OF ANY LANDSCAPE WORK. SUBMIT IN WRITING TO THE LANDSCAPE ARCHITECT ANY QUESTIONS OR CLARIFICATIONS REQUIRED AT A MINIMUM OF 30 DAYS PRIOR TO ORDERING ANY MATERIALS OR BEGINNING ANY LANDSCAPE CONSTRUCTION.
 - SUBMIT TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL ALL REQUIRED LANDSCAPE SUBMITTALS AS DESCRIBED IN THE SPECIFICATIONS INCLUDING A PLANT LIST WITH PLANT SIZE AND QUANTITIES TO BE ORDERED PRIOR TO DELIVERY TO THE PROJECT SITE.
 - FURNISH AND INSTALL ALL PLANTS AS SHOWN ON THE DRAWINGS AND IN THE SIZE AND QUANTITIES SPECIFIED ON THE PLANTING SCHEDULE. PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY BIOLOGIST OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - ALL PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK" LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION INC.
 - PLANTS TO BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS. USE HEALTHY NURSERY GROWN PLANTS, FREE OF DISEASE, INSECTS, AND PESTS. EGGS OR LARVAE, AND HAVE A WELL DEVELOPED ROOT SYSTEM.
 - INSTALL PLANTS WITHIN ONE (1) WEEK OF PURCHASE. IF PLANTS ARE TO BE STORED AT THE SITE PRIOR TO PLANTING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THEY ARE PROPERLY MAINTAINED, WATERED, AND REMAIN HEALTHY.
 - PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT. SUBMIT TO THE LANDSCAPE ARCHITECT IN WRITING THE PROPOSED PLANTING SCHEDULE. OBTAIN APPROVAL OF PLANTING SCHEDULE FROM THE LANDSCAPE ARCHITECT PRIOR TO PERFORMING ANY WORK.
- SEASONS FOR PLANTING:**
- | | | | | |
|----------------|--|--|---|---|
| SPRING: | DECIDUOUS: APRIL 1 TO JUNE 15 | EVERGREEN: APRIL 1 TO JUNE 15 | PERENNIALS: APRIL 15 TO JUNE 1 | GROUNDCOVERS: APRIL 15 TO JUNE 1 |
| FALL: | DECIDUOUS: SEPTEMBER 15 TO NOVEMBER 15 | EVERGREEN: SEPTEMBER 15 TO NOVEMBER 15 | PERENNIALS: SEPTEMBER 15 TO NOVEMBER 15 | GROUNDCOVERS: SEPTEMBER 15 TO NOVEMBER 15 |
- LIVE STAKES:** PLANTS WHILE DORMANT FROM DECEMBER 1ST THROUGH MARCH 31ST
- PLANTING UNDER FROZEN CONDITIONS IN EITHER THE SPRING OR FALL WILL NOT BE PERMITTED. PLANTING BEFORE OR AFTER THE ABOVE REFERENCED PLANTING DATES WILL INCREASE THE LIKELIHOOD OF PLANT OR GRASS SEED ESTABLISHMENT FAILURE. ANY DEVIATION FROM THE ABOVE REFERENCED PLANTING DATES IS UNDERTAKEN AT SOLE RISK OF THE CONTRACTOR AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL MAINTENANCE AND WATERING WHICH MAY BE REQUIRED TO ENSURE SATISFACTORY PLANT AND SEED ESTABLISHMENT.
 - FURNISH ONE YEAR MANUFACTURER WARRANTY FOR TREES, PLANTS, AND GROUND COVER AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLIGENCE, OR ABUSE BY OWNER, OR ABNORMAL WEATHER CONDITIONS UNUSUAL FOR WARRANTY PERIOD. THE DATE OF FINAL ACCEPTANCE OF ALL COMPLETED PLANTING WORK ESTABLISHES THE END OF INSTALLATION AND INITIAL MAINTENANCE PERIOD AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
 - INSPECT ALL AREAS TO BE PLANTED OR SEEDED PRIOR TO STARTING ANY LANDSCAPE WORK. REPORT ANY DEFECTS SUCH AS INCORRECT GRADING, INCORRECT SUBGRADE ELEVATIONS OR DRAINAGE PROBLEMS, ETC. TO THE LANDSCAPE ARCHITECT AND ENGINEER PRIOR TO BEGINNING WORK. COMMENCEMENT OF WORK INDICATES ACCEPTANCE OF SUBGRADE AREAS TO BE PLANTED, AND THE LANDSCAPE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL LANDSCAPE WORK.
 - PROVIDE PROPER PREPARATION OF ALL PROPOSED PLANTED AND SEEDED AREAS PER THE NOTES AND SPECIFICATIONS.
 - ALL PLANT LAYOUT AND ACTUAL PLANTING LOCATIONS ARE TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. NOTIFY THE LANDSCAPE ARCHITECT AT A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO SCHEDULING ANY FIELD INSPECTIONS.
 - BALL AND BURLAP: REMOVE BURLAP AND WIRE BASKETS FROM TOPS OF BALLS AND FROM TOP HALF OF ROOTBALL AS INDICATED ON DRAWINGS. REMOVE PALLETS, IF ANY, BEFORE SETTING.
 - POTTED PLANTS: REMOVE THE PLANT FROM THE POT AND LOOSEN OR SCORE THE ROOTS BEFORE PLANTING TO PROMOTE OUTWARDS ROOT GROWTH INTO THE SOIL.
 - PLUGS: PLANT UPRIGHT AND NOT AT AN ANGLE. DIG PLANTING HOLES LARGE ENOUGH AND DEEP ENOUGH TO ACCOMMODATE THE ENTIRE ROOT MASS. PLANT PLUGS WITH NO TWISTED OR BALLED ROOTS AND WITH NO ROOTS EXPOSED ABOVE THE GRADE LINE. HAND PACK THE SOIL AROUND THE ENTIRE PLUG ROOT MASS.
 - DIG THE THE PLANTING HOLE TO THE SAME DEPTH AS THE ROOT BALL AND TWO TO THREE TIMES WIDER. SCORE ALL SIDES OF THE HOLE. PLACE THE PLANT IN THE HOLE SO THE TOP OF ROOT BALL IS EVEN WITH SOIL SURFACE. FILL THE HOLE HALFWAY AND THEN ADD WATER ALLOWING IT TO SEEP INTO BACK FILLED MATERIAL. BE SURE TO REMOVE ALL AIR POCKETS FROM BACK FILLED SOIL. DO NOT SPREAD SOIL ON TOP OF THE ROOTBALL. IF SOIL IS EXTREMELY POOR, REPLACE BACK FILL WITH GOOD QUALITY TOP SOIL. AMEND THE SOIL, AS NECESSARY.
 - CREATE A 2" TO 4" BERM AROUND THE EDGE OF PLANTING HOLE WITH REMAINING SOIL TO RETAIN WATER.
 - REMOVE ALL PLANT TAGS AND FLAGS FROM THE PLANTS.

Plant Schedule

| Key | Qty | Botanical Name | Common Name | Size | Spacing |
|--|-----|-----------------------------|--------------------------------|-------|----------|
| Ground Cover/Grasses/Perennials | | | | | |
| CP | 80 | <i>Carex pensylvanica</i> | Pennsylvania Sedge | plugs | 18" O.C. |
| CS | 162 | <i>Carex stricta</i> | Tussock Sedge | 1 | 18" O.C. |
| EH | 30 | <i>Equisetum hyemale</i> | Horsetail | plugs | 24" O.C. |
| IF | 152 | <i>Iris fulva</i> | Copper Iris | plugs | 12" O.C. |
| JC | 178 | <i>Juncus canadensis</i> | Canada Rush | plugs | 18" O.C. |
| JE | 83 | <i>Juncus effusus</i> | Soft Rush | plugs | 18" O.C. |
| PA | 36 | <i>Packera aurea</i> | Golden Ragwort | 1 | 18" O.C. |
| SL | 46 | <i>Sagittaria latifolia</i> | Arrow-head, Wapato Duck Potato | plugs | 24" O.C. |
| SV | 64 | <i>Salicornia virginica</i> | Pickersweed | plugs | 24" O.C. |



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH COMMENTARY
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 14 2018 FILE # 18-0103
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

| <p>Revisions</p> <table border="1"> <tr> <th>Rev.</th> <th>Date</th> <th>By</th> <th>Appr.</th> <th>Description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | | Rev. | Date | By | Appr. | Description | | | | | |
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| Rev. | Date | By | Appr. | Description | | | | | | | |
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| <p>Checked By: BRK Drawn By: PF Designed By: BL Date: APRIL 2018</p> | | | | | | | | | | | |
| <p>Horsley Witten Group, Inc. Sustainable Environmental Solutions www.horsleywitten.com 90 Route 6A Sandwich, MA 02563 508-833-6600 voice 508-833-3750 fax</p> | | | | | | | | | | | |
| <p>Plan Set: JAPANESE GARDEN-WETLAND FILTER ROGER WILLIAMS PARK PROVIDENCE, RI LANDSCAPE PLAN</p> | | | | | | | | | | | |
| <p>Prepared For: Providence Parks Department 1000 Elmwood Avenue Providence, RI Phone: (401) 427-4004 Fax: ---</p> | | | | | | | | | | | |
| <p>Survey Provided By: Horsley Witten Group, Inc. 90 Route 6A Sandwich, MA 02563 Phone: (508) 833-6600 Fax: (508) 833-3750 Date: JANUARY 2018</p> | | | | | | | | | | | |
| <p>Registration: 4/27/18</p> | | | | | | | | | | | |
| Project Number: | Sheet: | | | | | | | | | | |
| 17021A | 7 of 7 | | | | | | | | | | |
| Sheet Number: | LA - 7 | | | | | | | | | | |

PERMITTING SET ONLY
NOT FOR CONSTRUCTION