DEMOLITION NOTES:
1. Call DIGSAFE (1-888-344-7233) to locate existing utilities prior to excavation. Protect existing utilities to remain throughout the construction process, and repair any damage done to these at no cost to the Owner. See Civil drawings for more information.
2. The limit of work line will be established with fencing as per spec. Fencing is to be kept in good repair throughout the construction process.
3. Existing paths on site to remain open and accessible. Do not block or impede with construction activities. Reroute as required.
4. Strip topsoil from construction access areas. Stockpile offsite for reuse. Add 6" gravel to stabilize parking and drive surfaces.
5. Protect existing trees to remain throughout the construction process. No digging within 15 feet of the trunk of a tree without review of LA. Root prune any roots exposed from digging. No cutting of any support roots more than 3 inches in diameter without review by LA. Any tree roots exposed from digging more than 6 hours shall be covered in burlap and kept wet. No vehicular equipment or material storage allowed under dripline of existing trees. See specifications for additional tree protection requirements.
6. See civil plans for utility information and silt fence.
7. Existing lights to be removed and given to owner.
8. Existing granite curb to be removed and stockpiled.
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2. The limit of work line will be established with fencing as per spec. Fencing is to be kept in good repair throughout the construction process.

3. Existing paths on site to remain open and accessible. Do not block or impede with construction activities. Reroute as required.

4. Strip topsoil from construction access areas. Stockpile offsite for reuse. Add 6" gravel to stabilize parking and drive surfaces.

5. Protect existing trees to remain throughout the construction process. No digging within 15 feet of the trunk of a tree without review of LA. Root prune any roots exposed from digging. No cutting of any support roots more than 3 inches in diameter without review by LA. Any tree roots exposed from digging more than 6 hours shall be covered in burlap and kept wet. No vehicular equipment or material storage allowed under dripline of existing trees. See specifications for additional tree protection requirements.

6. See civil plans for utility information and silt fence.

7. Existing lights to be removed and given to owner.

8. Existing granite curb to be removed and stockpiled.
1. Locate, protect, and maintain bench marks, monuments, control points, and project engineering reference points. Re-establish disturbed or destroyed items at Contractor’s expense.

2. Examine the areas and conditions under which site work is performed. Report any discrepancies with the plan to the Landscape Architect. Do not proceed with the work until unsatisfactory conditions are corrected.

3. Report discrepancies in drawings or specifications to the Landscape Architect for clarifications and adjustments before commencing work. Any deviations or changes from these drawings without written acceptance of the Landscape Architect shall absolve the Landscape Architect of any and all responsibility of said deviation and change.

4. Written dimensions take precedence over scaled dimensions.

5. Dimensions indicated on plans are for horizontal control and are accurate if measured on a level line. Measure horizontal control dimensions on a level line, not parallel with ground slope.

6. All dimensions taken from vertical surfaces, i.e., curbs & walls, are understood to be measured from the face of the vertical element unless otherwise specified.

7. Dimensions indicated on plans are for construction control purposes only. Dimensions on plans may not reflect actual field dimensions due to variations in installation and may not be used to calculate earthwork quantities or set grades.

8. All dimensions subject to change without notice.

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1. Install staked haybale siltation fence at edge of proposed grading as shown. Maintain haybale fence in good condition throughout project.

2. The locations of utilities shown on the plan are approximate. The contractor shall call Dig-Safe to verify the precise location of all utilities on-site before initiating demolition activities and protect existing utilities throughout construction. Any utilities damaged by construction activities will be repaired by the contractor at no cost to the owner.

3. Provide samples of materials proposed for use for the review of the Landscape Architect, including fill, topsoil, planting soil, and pavements. Suitable excavated materials removed to accommodate new construction may be used as fill material subject to the approval of the Landscape Architect. Soil test reports for topsoil shall be provided by the contractor through the University of Massachusetts soil testing laboratory.

4. Promptly notify the Landscape Architect of unexpected sub-surface conditions. Contractor to set grade stakes showing lines and elevations for review and approval by the Landscape Architect prior to rough grading.

5. Perform grading within contract Limits of Construction, including adjacent transition areas, to new elevations, levels, profiles, and contours indicated. Provide subgrade surfaces parallel to finished surface grades. Provide uniform levels and slopes between new elevations and existing grades. Grade surfaces to assure areas drain away from structures and to prevent ponding and pockets of surface drainage.

6. Topsoil to be installed shall be natural, friable, fertile soil characteristic of productive soil in the vicinity, reasonably free of stones, clay lumps, roots, and other foreign matter. Do not use muddy topsoil. Place during dry weather. Allow for 6" average depth of topsoil screened for lawn areas, and 12" depth at planting areas, except as otherwise indicated on the drawings.

7. Fine grade topsoil eliminating rough and low areas to ensure positive drainage. Maintain levels, profiles, and contours of subgrades.

8. Protect finish graded areas from traffic and erosion. Keep free of trash and debris. Repair and re-establish grades in settled, eroded, and damaged areas. Where completed areas are disturbed by construction operations or adverse weather, scarify, re-shape, and compact to required density.

9. Upon completion of earthwork operation, clean areas within contract limits, remove tools, and equipment. Provide site clear, clean, free of debris, and suitable for further site work operations.
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COMPOST AS REQUIRED TO BALANCE ORGANIC CONTENT TO UMASS TESTING AGENCY FOR EACH SAMPLES FOR STANDARD SOIL TEST WITH ORGANIC STONES GREATER THAN 1" DIAMETER

DEPTH GREATER THAN REQUIRED TO ACCOUNT FOR ADEQUATELY TO SUPPORT THE ROOTBALL AND NO GREATER THAN 8" LIFTS AND COMPACT TO 82-85%

SPREAD ENRICHED SUBSOIL (AS SPECIFIED BELOW) IN MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE IMMEDIATELY PRIOR TO PLACING PLANTING SOILS THE SS CONTENT.

TYPE OF PLANTING. AMEND WITH AGED LEAF SAMPLES FOR STANDARD SOIL TEST WITH ORGANIC STONES GREATER THAN 1" DIAMETER.

NOTE: CONTRACTOR TO UTILIZE EXISTING ON SITE REMOVE STIFF CLODS, LUMPS, BRUSH, ROOTS, DEPTH GREATER THAN REQUIRED TO ACCOUNT FOR PREVENT SETTLING.

PORTION OF THE PIT SHALL BE COMPRESSED WITH WIDE TRACK BULLDOZER SIZE D-5 OR SMALLER MAX DRY DENSITY. THE SURFACE AREA OF EACH LIFT SCARIFIED SUBBASE TO 86-88% COMPACTION.

ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A EXCAVATE TO ENTIRE AREA TO 10" MINUS FG.

TYPE F: GEOFIBER STABILIZED HIGH USE LAWN AREA

COMPOST AS REQUIRED TO BALANCE ORGANIC CONTENT TO UMASS TESTING AGENCY FOR EACH STOCKPILED SOIL TO THE FULLEST EXTENT. SUBMIT NOTE: CONTRACTOR TO UTILIZE EXISTING ON SITE STUMPS, LITTER, AND OTHER FOREIGN MATERIAL AND SETTLING.

8" DEEP PLANTING MEDIUM LOOSENED OR PLANTING MEDIUM IS SPREAD. SHALL BE SCARIFIED BY RAKING PRIOR TO NEXT LIFT.

OR HEAVY EQUIPMENT EXCEPT SMALL BULLDOZER COMPACTION OF SUBGRADE OR PLANTING MEDIUM 86-88% MAX DRY DENSITY. NO VIBRATORY WITH A MINIMUM OF TWO PASSES TO A DENSITY OF TRACK BULLDOZER SIZE D-5 OR SMALLER COMPRESS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION OR OTHER SUITABLE EQUIPMENT. COMPACT THE MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE NOTE: LANDSCAPE ARCHITECT TO FIELD VERIFY ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A IMEDIATELY PRIOR TO PLACING PLANTING SOILS THE HL

E. DISH AND TAMP TOP OF BACKFILL TO FORM A 3-INCH HIGH 12" DEEP PLANTING MEDIUM BACKFILLED, WATER THOROUGHLY BEFORE PLACING AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF BACKFILL. WHEN PIT IS APPROXIMATELY 1/2 BACKFILLED, WATER WITH A MINIMUM OF TWO PASSES TO A DENSITY OF TRACK BULLDOZER SIZE D-5 OR SMALLER COMPRESS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION OR OTHER SUITABLE EQUIPMENT. COMPACT THE MINIMUM OF 12" UTILIZING THE TEETH OF A BACKHOE NOTE: LANDSCAPE ARCHITECT TO FIELD VERIFY ENTIRE SUBGRADE AREA SHALL BE LOOSENED TO A IMEDIATELY PRIOR TO PLACING PLANTING SOILS THE HL

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4. PLACE BACKFILL AROUND BALL IN LAYERS, TAMPING TO CENTER OF PIT OR TRENCH WITH TOP OF BALL RAISED ABOVE ADJACENT FINISH GRADES AS INDICATED.

5. DO NOT INSTALL PLANTS UNTIL DRAINAGE CONDITIONS OBTAIN APPROVAL OF OWNER'S REPRESENTATIVE FOR ADJUSTMENT OF DRAINAGE PIPING OR OTHER MATERIALS.

6. UNEXPECTED ROCK OR OBSTRUCTIONS DETRIMENTAL TO GENERAL PLANTING PREPARATION NOTES
PLANTING NOTES:
1. Planting contractor shall visit site prior to submitting bid to become completely familiar with site conditions.
2. No planting will be installed until all grading and construction has been completed in immediate area.
3. Contractor to verify all utilities on property and to protect all utilities during excavation for plants.
4. If there is a discrepancy between the number of plants shown on the plan and the number of plants shown in the plant list, the number of plants shown on plan will take precedence.
5. All container material to be grown in container a minimum of 6 months.
6. All material shall comply with the latest edition of the American Standard for Nursery Stock, American Association of Nurseryman.
7. Contractor shall repair all damage to property from planting operations at no cost to the owner.
8. Contractor shall guarantee new plant material through one calendar year from time of provisional acceptance.
9. The Landscape Architect will tag all plants at the nursery and inspect them after delivery to the site. All plant materials shall be inspected by the Landscape Architect on site prior to installation.
10. All proposed plants shall be located carefully as shown on the plans and the placements shall be approved by Landscape Architect before the plants are installed.
11. Spacing of plants is to be based on measurements taken parallel to the ground plane.
12. All disturbed areas not to be paved or planted shall be loamed and seeded as shown. See specifications for seed mix.
13. Staking and guying shall be determined by the Landscape Architect on a tree by tree basis. For pricing purposes, provide a per tree unit cost for staking and guying. If staking and guying is required, remove tree wrap, stakes, and guy wires at end of first growing season.
14. For tree planting in lawn areas, any disturbed lawn shall be loamed and seeded as necessary.
15. Grass seed shall be applied at the recommended rate then raked in. Additional seeding at the recommended rate will be hydro seeded depending on conditions, straw cover may be required.
16. Landscape Architect to flag trees to be protected on site.

IRRIGATION NOTES:
17. Irrigation to be provided by facilities management. Planting outside scope by owner.
18. Include pop-up irrigation system at central lawn area.
19. Remainder of park planting to be irrigated as part of installation and warrantee contract with Landscape Contractor.
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L5.4

NOT TO SCALE

1. GROUNDCOVER SOIL PROFILE

2. SHRUB SOIL PROFILE

3. TREE SOIL PROFILE

4. HIGH USE TURF SOIL PROFILE

5. ENTRY STABILIZED HIGH USE TURF SOIL PROFILE

6. MEDIUM SUBGRADE

7. SHRUB PLANTING

8. GROUNDCOVER PLANTING

9. PLANTED SLOPE

10. MEDIUM SUBSOIL

11. EVERGREEN TREE PLANTING

12. SHRUB AND GROUNDCOVER PLANTING

13. DECIDUOUS TREE PLANTING

14. TREE PLANTING, STEEP TO MODERATE SLOPES, TYP.
LIGHTING NOTES
1. Final fixture locations, quantities, makes and models to be determined.
2. Electrical Contractor is responsible for making sure that all work complies with all governing codes and regulations.
3. All fixtures to be staked in the field by Contractor and approved by the Landscape Architect prior to installation.
4. City DPW and Contractor to verify switch locations for site lighting.
5. City DPW to coordinate burial of overhead powerlines within existing conduit, prior to park construction.
6. Landscape Architect/City DPW to coordinate electrical source for all park lights and electrical outlets.
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6. Landscape Architect/City DPW to coordinate electrical source for all park lights and electrical outlets.
IRRIGATION NOTES

1. SEE IRRIGATION DETAILS AND SPECIFICATIONS SECTION 328400 FOR ADDITIONAL REQUIRED INFORMATION.

2. COORDINATE FINAL LOCATION OF SPRINKLERS AND NOZZLES WITH FINAL APPROVED LANDSCAPE.

3. ALL PIPE AND VALVE LOCATIONS ARE DIAGRAMMATIC FOR CLARITY: CONTRACTOR SHALL FIELD VERIFY.

4. SPECIFIED VALVE BOXES WITHIN LAWN AREAS SHALL BE APPROVED BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.

5. ALL CONTROL WIRE SHALL BE 14AWG GAUGE SINGLE STRAND: RED FOR SPRINKLERS, COMMON WIRE SHALL BE WHITE, SPARE WIRE, INSTALLED WHERE SHOWN, SHALL BE SINGLE STRAND BLUE.

6. IRRIGATION SYSTEM IS DESIGNED FOR MUNICIPAL WATER SUPPLY TO PROVIDE 40 GPM MAXIMUM FROM STREET SERVICE. SYSTEM TO PRODUCE 55-PSI DYNAMIC PRESSURE MAXIMUM AT IRRIGATION CONTRACTOR'S POINT OF CONNECTION. CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK AND REPORT ANY DEVIATION TO THE OWNER'S REPRESENTATIVE BEFORE CONTINUING.

7. INSTALL NEW CONTROLLER ON WALL IN NEW PLASTIC ENCLOSURE AS DIRECTED BY OWNER'S REPRESENTATIVE, HARD WIRE TO 120 VOLT, DEDICATED 20-AMP CIRCUIT, POWER SUPPLY USING LICENSED ELECTRICIAN. ROUTE ALL ZONE AND SPARE WIRE TO CONTROLLER VIA 2-INCH CONDUIT.

8. ALL ABOVE GROUND WIRING SHALL BE INSTALLED IN RIGID, METALLIC CONDUIT FOR VANDALISM PROTECTION.

9. COORDINATE LOCATION OF ALL EXISTING AND FUTURE UTILITIES ON SITE, CONTACT PROPER AUTHORITIES AND UTILITY COMPANIES BEFORE THE START OF WORK.

10. FLUSH ALL LATERAL LINES BEFORE INSTALLING SPRINKLERS.

11. CONTRACTOR MUST SUBMIT SHOP DRAWINGS AS PER THE WRITTEN SPECIFICATIONS TO THE IRRIGATION CONSULTANT FOR APPROVAL PRIOR TO ORDERING MATERIAL AND BEGINNING WORK.

12. MATERIAL SUBSTITUTIONS WHICH VARY FROM THE SPECIFIED PRODUCTS MUST BE SUBMITTED TO THE IRRIGATION CONSULTANT FOR APPROVAL AS PART OF THE SUBMITTAL PROCESS.

13. ONCE APPROVED SUBMITTALS HAVE BEEN RETURNED TO THE CONTRACTOR, WORK MAY BEGIN. OWNER'S REPRESENTATIVE MUST BE NOTIFIED 7 DAYS IN ADVANCE OF THE START OF WORK TO COORDINATE ON-SITE SUPERVISION AND ADMINISTRATION.

14. FINAL LOCATION AND CONFIGURATION OF BACKFLOW PREVENTER AND WATER METER SHALL BE APPROVED BY OWNER'S REPRESENTATIVE AND PER LOCAL WATER DEPARTMENT.

IRRIGATION DESIGN PREPARED BY:

AQUEOUS CONSULTANTS, LLC
29 RIVER STREET, ANDOVER, MA 01810
MIKE@AQUEOUSCONSULTANTS.COM
(978) 809-6420

IRRIGATION SCHEDULE

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<tr>
<th>SYMBOL</th>
<th>MANUFACTURER/MODEL</th>
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<tr>
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<td>Hunter PROS-06-PRS30-CV 5` strip spray</td>
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<td>Fountain Pump &amp; Vault</td>
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<td></td>
<td>Water Meter 1-1/2&quot;</td>
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<td>Fountain Pump Switch (Indoors)</td>
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<td>Irrigation Lateral Line: PVC Class 200 (Size as Noted)</td>
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<td>2&quot; Irrigation Mainline: PVC Class 200</td>
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<tr>
<td></td>
<td>Pipe Sleeve: PVC Class 200</td>
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<td>Water Feature Power (In Conduit)</td>
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18
3 INCH SCHEDULE 40 PVC TRENCH DRAIN SLOTTED (WEIR EQUATION) = 7 GPM MAXIMUM FLOW BEFORE OVER-CREST
RECTANGULAR NOTCH: 2" DEEP 6" x 6" x 1" PVC WATER SUPPLY PIPE TO BOTTOM OF VAULT: 1-INCH SCHEDULE 40 (SEE DETAIL SHEET L-8.2, DETAIL 6)
IRON GARDEN, FOUNTAIN PUMP SET AT BOTTOM OF VAULT:
PUMP VAULT WITH SEALS AT 36" DEEP, 30" DIAMETER WATERTIGHT (MIN. SLOPE = 1%)
PIPE AND CONDUIT PENETRATIONS QUICK COUPLING VALVES CHANGES OF DIRECTION IRRIGATION PIPE (LATERAL OR MAINLINE) TIE LOOSE LOOP OF WIRE AT 1.  2.
CRUSHED STONE 4-INCH CRUSHED STONE BASE
1" PVC SWING JOINT CLASS-160 PVC SLEEVE (PIPES) sched 80 to Be NIPPLE, SET AT 10" ROUND VALVE BOX
drain set in compacted earth around at-grade box tamped by hand
around at-grade box compacted earth depth as required
required frost-free = 2 FEET = 5 FEET of HEAD AT 5 GPM)
MODEL TIDAL WAVE FP500, OR APPROVED EQUAL (PERFORMANCE = 5 FEET of HEAD AT 5 GPM)
TRENCH DRAIN (TAMPED BY HAND)
SUPPLY LINE DRAINS THROUGH FENCE OR CLEAR TO FENCE OR HARDSCAPE WHERE PLANTED LANDSCAPE.
POWER CABLE TO WALL. INSTALL BACKUP CONTROLLER AS SPECIFIED.
INDOOR IRRIGATION CONTROLLER.
32 80 00 - Section 2.02
32 80 00 - Section 2.01
32 80 00 - Section 2.03
32 80 00 - Section 2.04
32 80 00 - Section 2.05
32 80 00 - Section 2.06
32 80 00 - Section 2.07
32 80 00 - Section 2.08
32 80 00 - Section 2.09
NOT TO SCALE
TYPICAL SLEEVE LAYOUT
TYPICAL PIPE TRENCH CROSS-SECTION
QUICK COUPLING VALVES
CHANGES OF DIRECTION IRRIGATION PIPE (LATERAL OR MAINLINE) TIE LOOSE LOOP OF WIRE AT 1.  2.
CRUSHED STONE 4-INCH CRUSHED STONE BASE
1" PVC SWING JOINT CLASS-160 PVC SLEEVE (PIPES) sched 80 to Be NIPPLE, SET AT 10" ROUND VALVE BOX
drain set in compacted earth around at-grade box tamped by hand
around at-grade box compacted earth depth as required
required frost-free = 2 FEET = 5 FEET of HEAD AT 5 GPM)
MODEL TIDAL WAVE FP500, OR APPROVED EQUAL (PERFORMANCE = 5 FEET of HEAD AT 5 GPM)
TRENCH DRAIN (TAMPED BY HAND)
SUPPLY LINE DRAINS THROUGH FENCE OR CLEAR TO FENCE OR HARDSCAPE WHERE PLANTED LANDSCAPE.
POWER CABLE TO WALL. INSTALL BACKUP CONTROLLER AS SPECIFIED.
INDOOR IRRIGATION CONTROLLER.
32 80 00 - Section 2.02
32 80 00 - Section 2.01
32 80 00 - Section 2.03
32 80 00 - Section 2.04
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