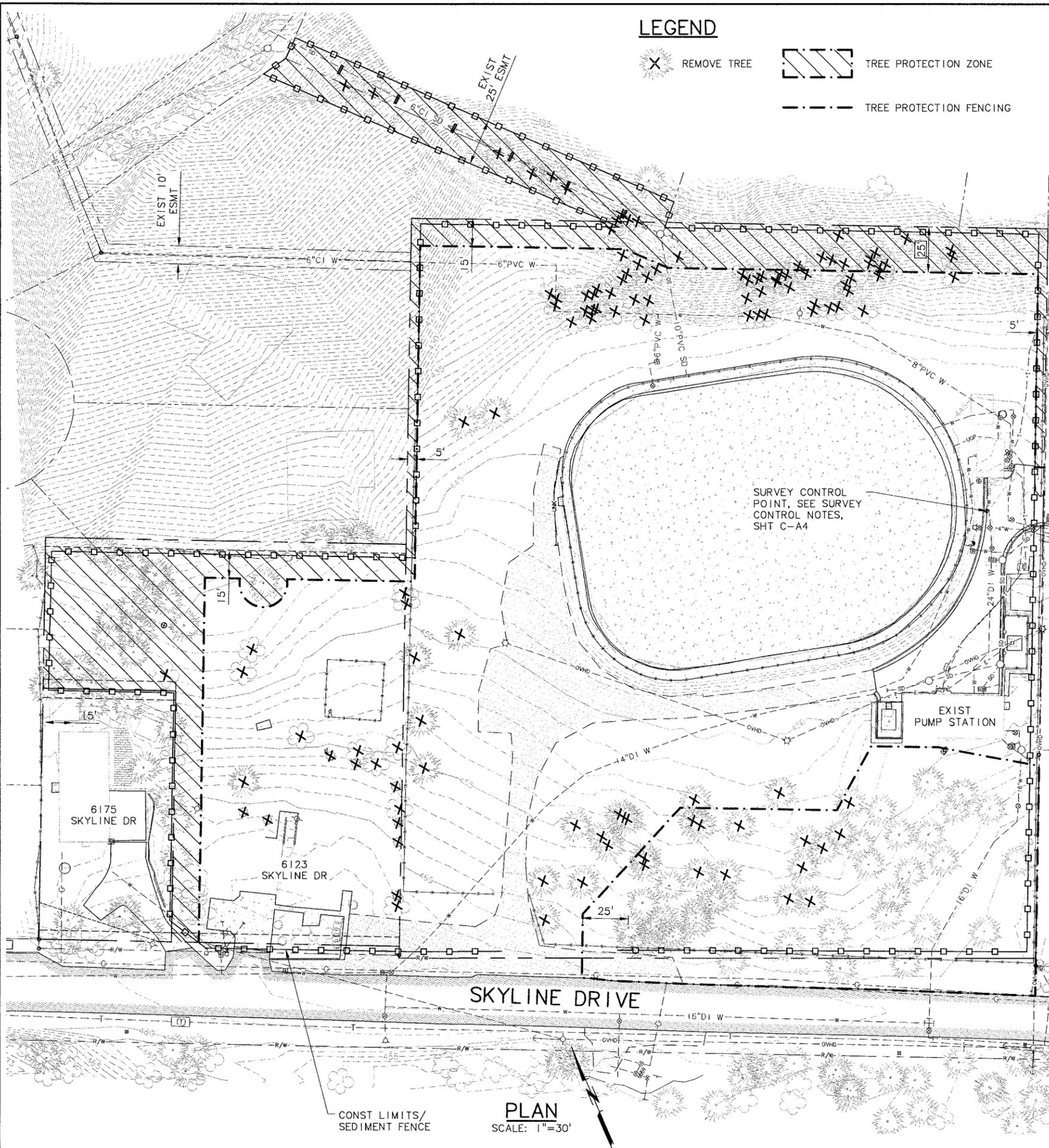




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**TREE PROTECTION NOTES**

**TREE REMOVAL NOTES**

- ONLY THOSE TREES IDENTIFIED FOR REMOVAL MAY BE REMOVED.
- TREE LOCATIONS APPROXIMATE.
- CONTRACTOR SHALL COMPLY WITH CITY TREE REMOVAL PERMIT, TO BE OBTAINED BY OWNER.
- TREE REMOVAL AND CLEARING SHALL BE COMPLETED BETWEEN AUGUST 1 AND JANUARY 31, TO AVOID BIRD NESTING SEASON.

**BEFORE CONSTRUCTION BEGINS**

- FENCING:
  - FURNISH AND INSTALL APPROVED TREE PROTECTION FENCING AROUND EACH TREE OR GROVE OF TREES TO BE RETAINED.
  - THE FENCING SHALL BE INSTALLED PRIOR TO THE GROUND BEING CLEARED IN ORDER TO PROTECT THE TREES AND SOIL AROUND THE TREES FROM ANY DISTURBANCE.
  - FENCING SHALL BE PLACED AT THE EDGE OF THE ROOT PROTECTION ZONE. ROOT PROTECTION ZONES WILL BE ESTABLISHED BY THE PROJECT ARBORIST BASED IN THE NEEDS OF THE SITE AND THE TREE TO BE PROTECTED. THE TREE PROTECTION ZONE WILL BE APPROXIMATELY 15' FROM THE CENTER OF THE TREE IN ALL DIRECTIONS.
  - FENCING SHALL REMAIN IN THE LOCATION AS ESTABLISHED BY THE PROJECT ARBORIST AND NOT MOVED WITHOUT WRITTEN PERMISSION FROM THE PROJECT ARBORIST UNTIL THE END OF THE PROJECT.

**SIGNAGE:**

- ALL TREE PROTECTION FENCING SHALL HAVE SIGNAGE AS FOLLOWS:

TREE PROTECTION ZONE  
**DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION FENCING**

Please contact the project arborist or owner if alternations to the approved location of the tree protection fencing are necessary.

- SIGNAGE SHOULD BE PLACE AS TO BE VISIBLE FROM ALL SIDES OF TREE PROTECTION AREA AND SPACED EVERY 75 FEET.

**DURING CONSTRUCTION**

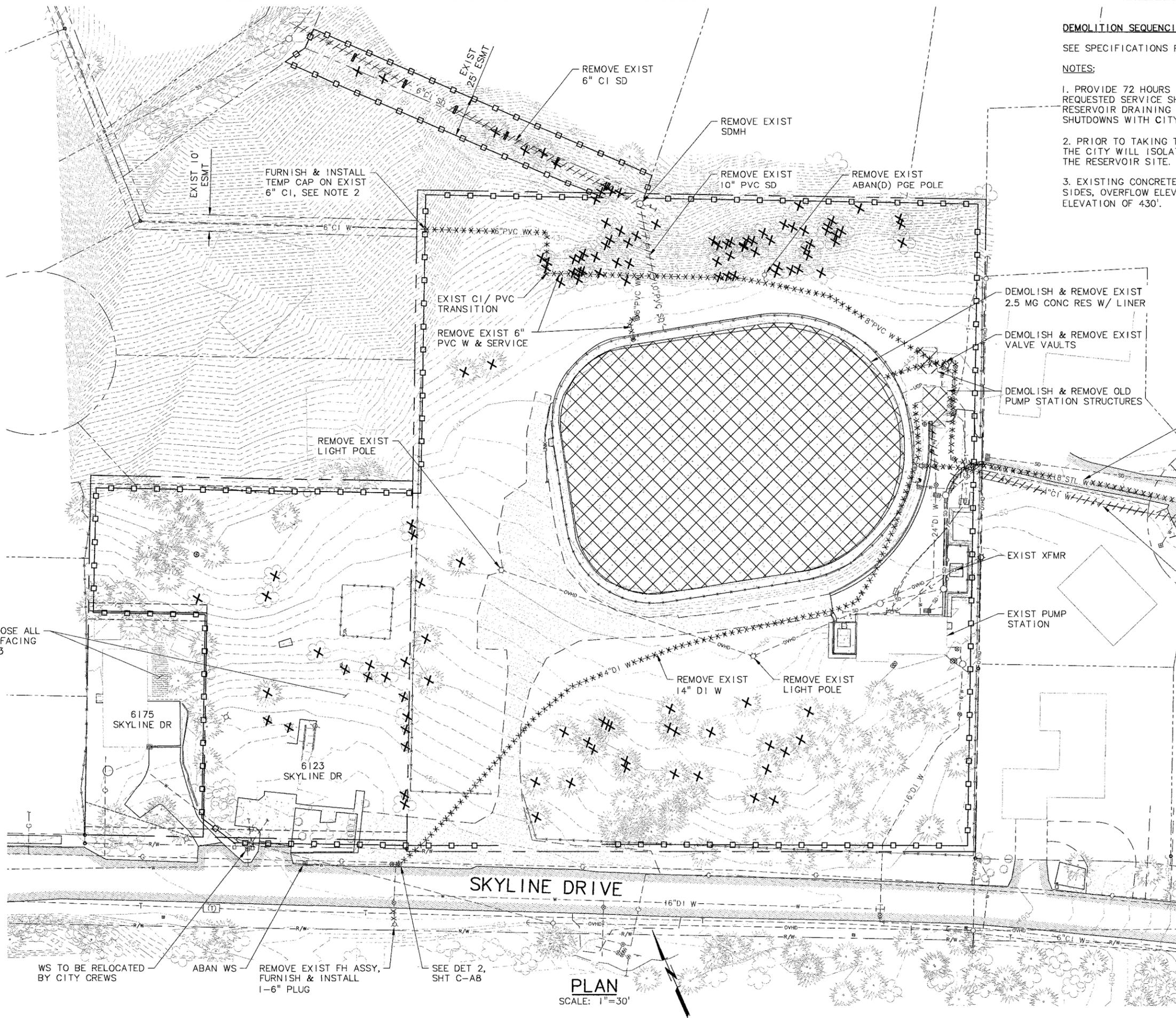
- PROTECTION GUIDELINES WITHIN THE ROOT PROTECTION ZONE:
  - ENTRY INTO THE TREE PROTECTION AREAS IS PROHIBITED EXCEPT BY THE PROJECT ARBORIST UNLESS THROUGH WRITTEN PERMISSION OF THE PROJECT ARBORIST.
  - NO TRAFFIC SHALL BE ALLOWED WITHIN THE ROOT PROTECTION ZONE. NO VEHICLE, HEAVY EQUIPMENT, OR REPEATED FOOT TRAFFIC SHALL BE ALLOWED WITHIN THE ROOT PROTECTION ZONE.
  - STORAGE OF MATERIALS INCLUDING, BUT NOT LIMITED TO, SOIL, CONSTRUCTION MATERIAL, OR WASTE FROM THE SITE WILL NOT BE ALLOWED WITHIN THE TREE PROTECTION ZONE. WASTE INCLUDES, BUT IS NOT LIMITED TO, CONCRETE WASH OUT, GASOLINE, DIESEL, PAINT, CLEANER, THINNERS, ETC.
  - CONSTRUCTION TRAILERS SHALL BE NOT PARKED/PLACED WITHIN THE ROOT PROTECTION ZONE WITHOUT WRITTEN APPROVAL FROM THE PROJECT ARBORIST.
  - VEHICLES SHALL NOT BE PARKED WITHIN THE ROOT PROTECTION AREAS.
  - NO ACTIVITY SHALL BE ALLOWED THAT WILL CAUSE SOIL COMPACTION WITHIN THE ROOT PROTECTION ZONE.
- TREES TO REMAIN SHALL BE PROTECTED FROM ANY CUTTING, SKINNING OR BREAKING OF BRANCHES, TRUNKS OR ROOTS.
- PRIOR TO CUTTING ROOTS FROM EXISTING TREES THAT ARE TO BE RETAINED, THE PROJECT ARBORIST SHALL BE NOTIFIED TO EVALUATE AND OVERSEE THE PROPER CUTTING OF ROOTS WITH SHARP CUTTING TOOLS. CUT ROOTS SHALL BE IMMEDIATELY COVERED WITH SOIL OR MULCH TO PREVENT DRYING OF THE ROOT.
- NO GRADE CHANGES SHALL OCCUR WITHIN THE ROOT PROTECTION ZONE.
- ANY NECESSARY DEVIATION OF THE ROOT PROTECTION ZONE SHALL BE APPROVED BY THE PROJECT ARBORIST OR THE OWNER, PRIOR TO IMPLEMENTING CHANGES.
- PROVIDE WATER TO TREES DURING THE SUMMER MONTHS. TREE(S) THAT WILL HAVE HAD ROOT SYSTEM(S) CUT BACK WILL NEED SUPPLEMENTAL WATER TO OVERCOME THE LOSS OF ABILITY TO ABSORB NECESSARY MOISTURE DURING THE SUMMER MONTHS.
- ANY NECESSARY PASSAGE OF UTILITIES THROUGH THE ROOT PROTECTION ZONE SHALL BE BY MEANS OF TUNNELING UNDER ROOTS BY HAND DIGGING OR BORING.

**AFTER CONSTRUCTION**

- CAREFULLY LANDSCAPE IN THE AREA OF THE TREE. DO NOT ALLOW TRENCHING WITHIN THE ROOT PROTECTION ZONE. CAREFULLY PLANT NEW PLANTS WITHIN THE ROOT PROTECTION ZONE. AVOID CUTTING THE ROOTS OF THE EXISTING TREES.
- DO NOT PLACE IRRIGATION WITHIN THE ROOT PROTECTION ZONE OF EXISTING TREES UNLESS IT IS DRIP IRRIGATION FOR A SPECIFIC PLANTING OR CLEARED BY THE PROJECT ARBORIST.
- PROVIDE FOR ADEQUATE DRAINAGE OF THE AREA AROUND THE RETAINED TREES.
- PRUNING OF THE TREES SHALL BE COMPLETED AS ONE OF THE LAST STEPS OF THE LANDSCAPING PROCESS BEFORE THE FINAL PLACEMENT OF TREES, SHRUBS, GROUND COVERS, MULCH OR SEEDING.

BY:	REVISION:	NO.:	DATE:	DESIGNED: MLM	DRAWN: DKH	CHECKED: TPB	APPROVED: TPB	
				PROJECT NAME: CITY OF WEST LINN, OREGON BOLTON RESERVOIR REPLACEMENT PROJECT NO. PW 14-06	SHEET C-A2 18 of 167			
				SCALE: VERT. AS SHOWN HORIZ. AS SHOWN	NOTICE: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE			
				PROJECT TITLE: RESERVOIR SITE TREE REMOVAL AND PROTECTION PLAN	DATE: SEPTEMBER 2015			
				Murray Smith & Associates, Inc. Engineers/Planners 121 S.W. Salmon, Suite 900 Portland, Oregon 97204 PHONE: 503-251-9010 FAX: 503-251-9022	MSA PROJECT: 14-1586			

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**DEMOLITION SEQUENCING NOTES:**

SEE SPECIFICATIONS FOR SEQUENCING NOTES.

**NOTES:**

1. PROVIDE 72 HOURS NOTICE PRIOR TO REQUESTED SERVICE SHUTDOWNS. COORDINATE RESERVOIR DRAINING AND WATER MAIN SHUTDOWNS WITH CITY.
2. PRIOR TO TAKING THE 8" PVC MAIN OFFLINE, THE CITY WILL ISOLATE FROM MAIN NORTH OF THE RESERVOIR SITE.
3. EXISTING CONCRETE RESERVOIR HAS SLOPED SIDES, OVERFLOW ELEVATION OF 445' AND FLOOR ELEVATION OF 430'.

BY	
NO.	DATE
REVISION	
DESIGNED: M.L.M.	
DRAWN: B.A.W.	
CHECKED: T.P.B.	
APPROVED: T.P.B.	



SCALE: VERT. AS SHOWN, HORIZ. AS SHOWN  
 NOTICE: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PROJECT NAME: CITY OF WEST LINN, OREGON  
 BOLTON RESERVOIR REPLACEMENT  
 PROJECT NO. PW 14-06  
 SHEET TITLE: RESERVOIR SITE DEMOLITION PLAN

**MSA**  
 Murray Smith & Associates, Inc.  
 Engineers/Planners  
 121 S.W. Salmon, Suite 900  
 Portland, Oregon 97204  
 PHONE: 503-225-9010  
 FAX: 503-225-0022  
 DATE: SEPTEMBER 2015  
 MSA PROJECT: 14-1586

**PLAN**  
 SCALE: 1"=30'