

GENERAL GRADING NOTES:

1. THIS IS DESIGN GRADING. ALL GRADES ABOVE THE NORMAL POOL ELEVATION SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE PROPOSED GRADES MEET EXISTING ARE NOT ACCEPTABLE. SURVEY STAKES ARE FOR GENERAL GRADING PURPOSES ONLY. NOT ALL SLOPES ARE CONSTANT AND THEREFORE THE GRADING PLANS SHALL BE REFERRED TO FOR FINAL GRADE SHAPING. THE GRADING SHALL BE APPROVED BY MKEC'S LANDSCAPE ARCHITECT PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.
2. MANY EXISTING NATURAL AREAS (TREES AND PASTURE) ARE TO BE PRESERVED AND SHALL BE OFF LIMITS TO CONSTRUCTION ACTIVITY. TEMPORARY CONSTRUCTION FENCE SHALL BE ERECTED AS INDICATED BEFORE ANY TYPE OF CONSTRUCTION IS INITIATED. REFER TO SHEET 18. NO EQUIPMENT OR WORK OF ANY KIND SHALL ENTER/DISTURB THESE AREAS.
3. A 6" LAYER OF TOPSOIL SHALL BE STRIPPED IN ALL AREAS OF CUT AND FILL AND REPLACED AT A 6" THICKNESS (WITH THE EXCEPTION OF AREAS BELOW THE NORMAL POOL ELEVATIONS IN THE PONDS) ON PROPOSED GRADING AREAS. NOTE: THE FINISHED GRADE INDICATES THE SURFACE ELEVATION AFTER THE LAYER OF TOPSOIL HAS BEEN PLACED. IN CASES WHERE GRADING IS DIRECTED UNDER TREE DRIP LINES NO TOPSOIL STRIPPING SHALL BE PERFORMED WITHIN THESE AREAS.
4. WHERE OFFSITE TOPSOIL IS NEEDED, IT SHALL BE FERTILE NATURAL TOPSOIL, TYPICAL OF THE LOCALITY, OBTAINED FROM WELL DRAINED AREAS. STOCKPILED TOPSOIL MAY BE USED. IT SHALL BE WITHOUT ADMIXTURE OF SUBSOIL OR SLAG AND SHALL BE FREE OF STONES, LUMPS, STICKS, PLANTS OR THEIR ROOTS, TOXIC SUBSTANCES OR OTHER EXTRANEIOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH FUTURE MAINTENANCE. TOPSOIL pH RANGE SHALL BE 5.5 TO 7.0. TOPSOIL SHALL BE APPROVED BY MKEC'S LANDSCAPE ARCHITECT PRIOR TO PLACEMENT.
5. COMPACTION TESTING SHALL BE PROVIDED BY THE CONTRACTOR FOR LAKES, ROADS, AND LOT FILL. FREQUENCY OF TESTING SHALL BE DETERMINED BY ENGINEER BUT NOT LESS THAN 2 TESTS PER LIFT PER WORKING AREA.
6. TOPSOIL SHALL NOT BE PLACED ON ANY AREAS OF ROAD BED OR LOT FILL. LOCATIONS FOR TOPSOIL PLACEMENT SHALL BE LIMITED TO AREAS BETWEEN RIGHT OF WAY AND PROPOSED BACK OF CURB AND ALSO IN THE DESIGNATED STOCKPILE LOCATION SHOWN ON SHEET 20.

EARTHWORK
TABULATIONS:

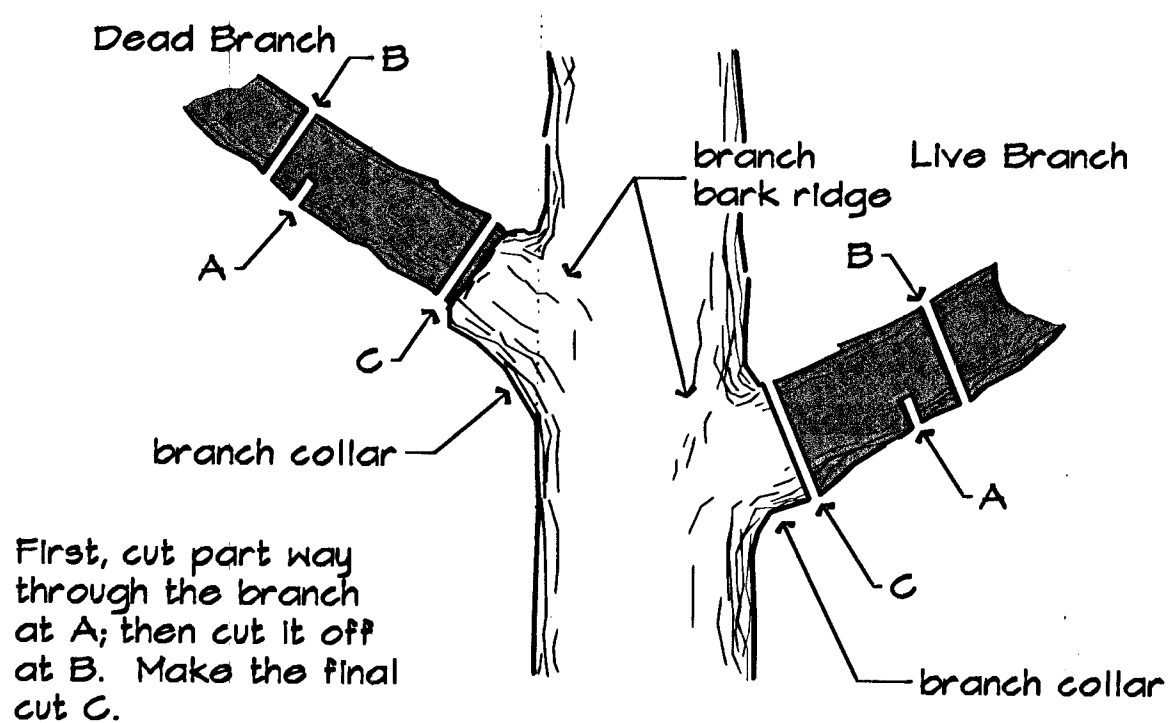
POND GRADING
13860 CY OF CUT
1160 CY OF FILL

DITCH GRADING: FOR INFORMATION ONLY
1034 CY OF CUT
0 CY OF FILL

ROAD AND LOT GRADING
0 CY OF CUT
12100 CY OF FILL

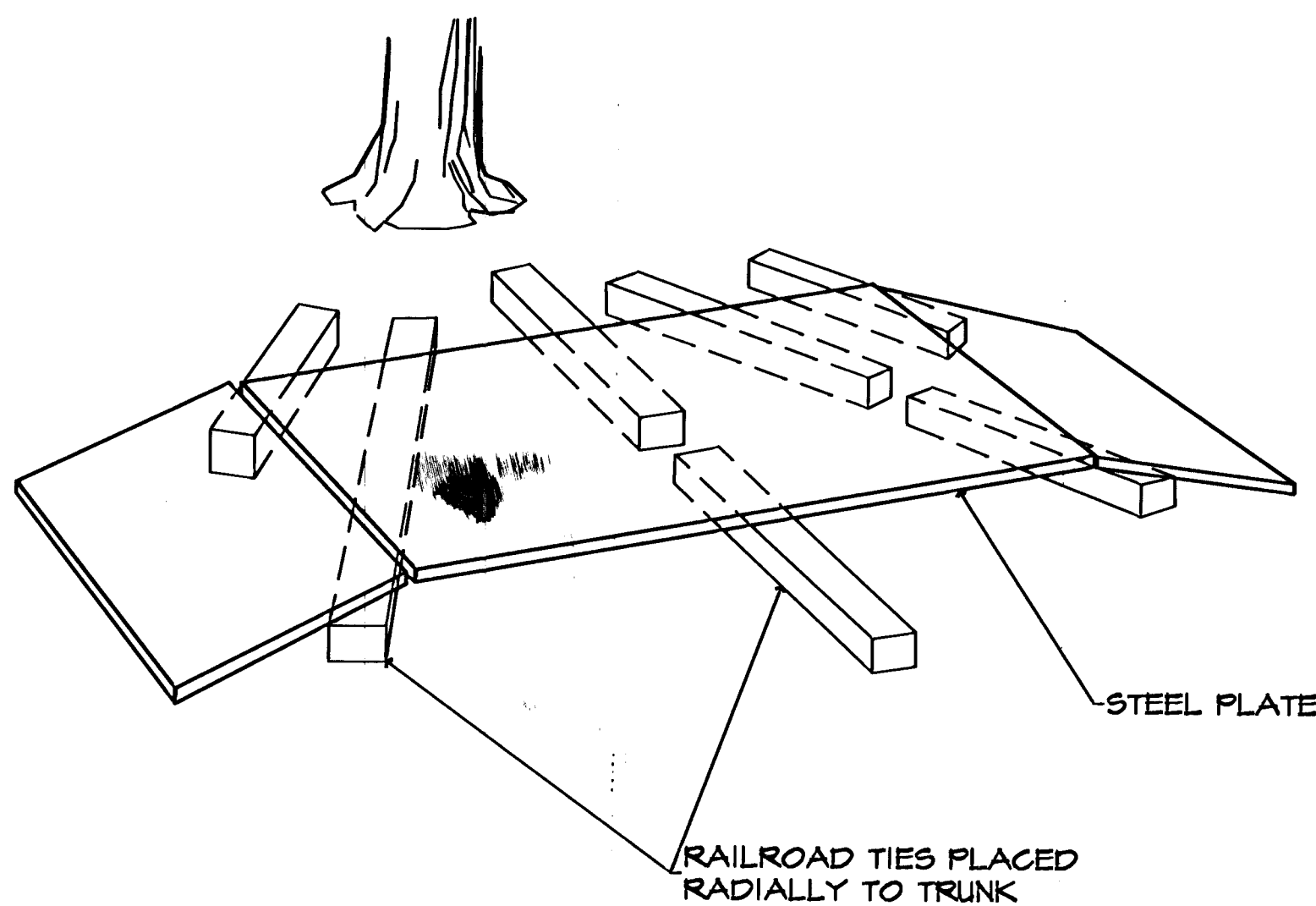
GENERAL TREE PROTECTION NOTES:

1. TREES ARE AN IMPORTANT ASSET TO THE DEVELOPER. EVERY EFFORT SHOULD BE MADE TO PRESERVE EACH AND EVERY TREE (UNLESS NOTED FOR REMOVAL) AS DIRECTED IN THESE PLANS & NOTES.
2. BEFORE ANY TYPE OF CONSTRUCTION BEGINS WITHIN THE PROJECT IMPROVEMENT AREA THE CONTRACTOR SHALL INSTALL PROTECTION FENCE AROUND ALL TREE MASSES & INDIVIDUAL TREES THAT ARE NOT NOTED FOR REMOVAL.
3. EQUIPMENT AND CONSTRUCTION MATERIALS SHALL REMAIN OUT OF AND AWAY FROM TREE DRIPLINES SO AS TO NOT COMPACT THE ROOT ZONE OR DAMAGE THE TREE. CHEMICAL SPILL DAMAGE SHALL BE PREVENTED BY FILLING GAS TANKS, CLEANING TOOLS & REPAIRING EQUIPMENT WELL OUTSIDE TREE PROTECTED ROOT ZONES. MIXING TRUCKS SHALL BE RINSED OUT IN A DESIGNATED AREA. WHERE IT OCCURS THAT A CONSTRUCTION ROUTE OR A PROPOSED IMPROVEMENT OCCURS WITHIN A TREE'S (PRZ) IT MAY BE NECESSARY DEPENDENT UPON THE TYPE OF CONSTRUCTION AND EQUIPMENT USED, TO INSTALL A ROOT PROTECTION BRIDGE OR APPROVED EQUIVALENT, THIS MAY BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE LANDSCAPE ARCHITECT (REFER TO DETAIL THIS SHEET).
4. ANY TREE THAT MUST HAVE BRANCHES REMOVED SHALL BE TRIMMED WITH SHARP INSTRUMENT/TOOL THAT IS INTENDED FOR SUCH OPERATIONS. CONSULT LANDSCAPE ARCHITECT PRIOR TO TRIMMING. KNOCKING BRANCHES OFF WITH A BACKHOE OR OTHER SIMILAR MACHINE IS NOT ACCEPTABLE. REFER TO TREE TRIMMING DETAIL ON THIS SHEET FOR TRIMMING PROCEDURE.
5. IT MAY BE NECESSARY IN CERTAIN AREAS THAT THE CONTRACTOR USE SMALLER MACHINERY IN ORDER TO COMPLETE WORK NEARER TO TREES & ALONG POND EDGES WHERE GRADING OCCURS NEAR TREES OR BELOW DRIPLINES.



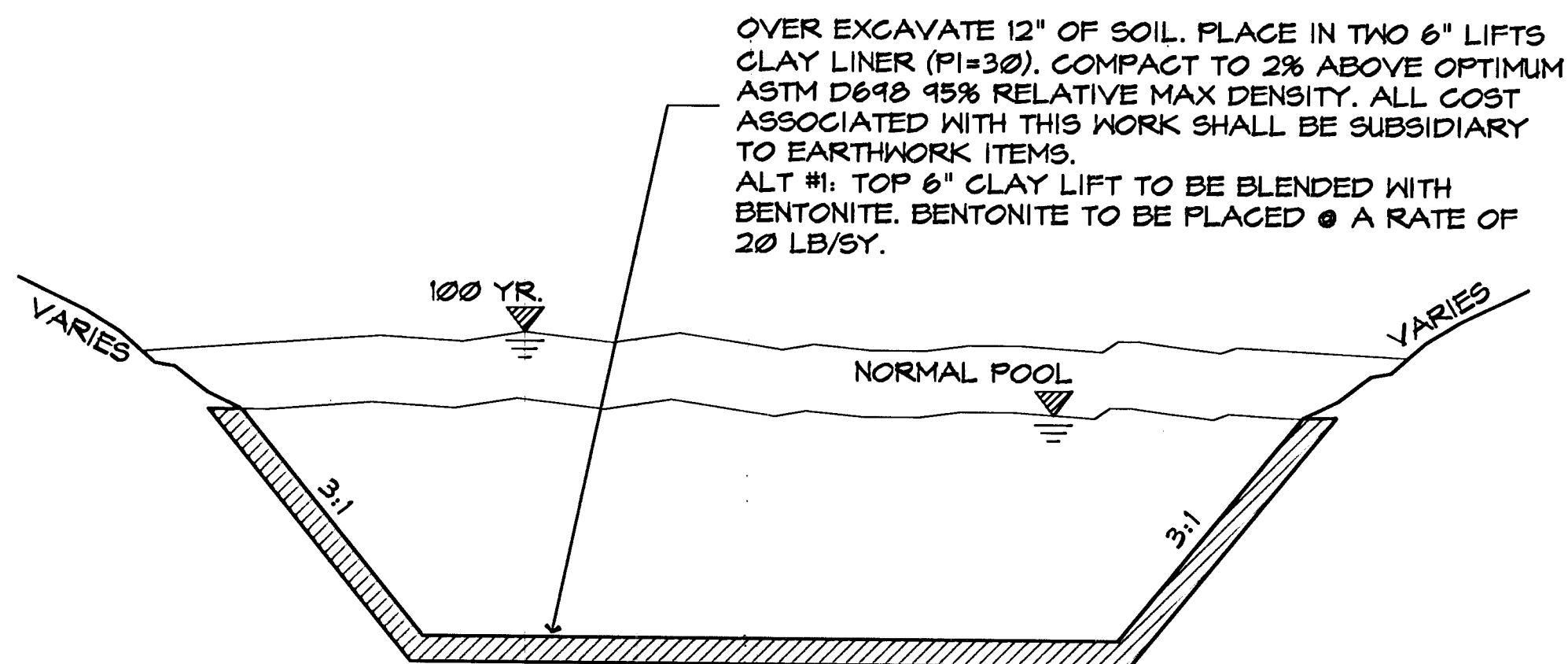
TREE TRIMMING DETAIL

NOT TO SCALE



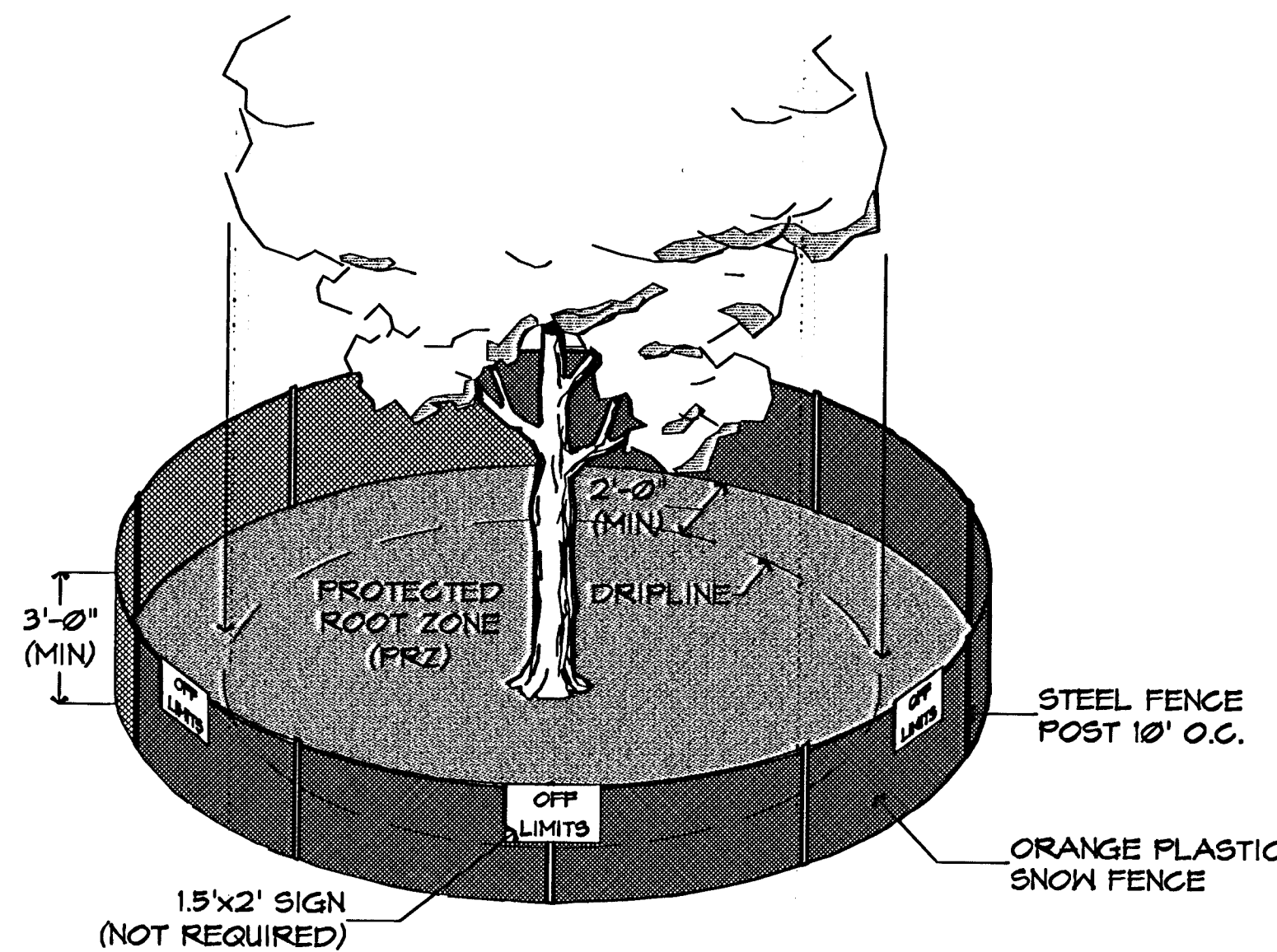
ROOT BRIDGING DETAIL

NOT TO SCALE



TYPICAL POND DETAIL

NOT TO SCALE



NOTE: THE TEMPORARY FENCE IS TO BE CONSTRUCTED AROUND SPECIFIED AREAS/TREES PRIOR TO ANY CONSTRUCTION AND SHALL REMAIN UNTIL ALL CONSTRUCTION IS COMPLETE. CONSTRUCTION EQUIPMENT AND MATERIALS ARE NOT PERMITTED WITHIN THE (PRZ). THE FENCE PLACEMENT AROUND THE (PRZ) MAY ONLY BE ADJUSTED WITH PERMISSION FROM THE OWNER'S REPRESENTATIVE.

TEMPORARY TREE
PROTECTION DETAIL

NOT TO SCALE



WOODLAND LAKES ESTATES
THIRD ADDITION - ZELTA PHASE
PROJECT NAME
GRADING AND TREE
PRESERVATION NOTES & DETAILS
SHEET TITLE

JAG DESIGN BY:	DMU DRAWN BY:	GJA CHECKED BY:
JULY 2003 DATE	02172 JOB NO.	19 / 32 SHEET/OF