

GENERAL SITE WORK NOTES:

- ALL CONTACT BETWEEN CONSTRUCTION EQUIPMENT AND OVERHEAD TREE LIMBS SHOULD BE AVOIDED. WHERE NECESSARY, IF PRUNING IS REQUIRED, IT SHALL BE PRUNED PRIOR TO COMMENCEMENT OF CONSTRUCTION, UNDER THE SUPERVISION OF THE PROJECT ARBORIST AND SHALL NOT TAKE PLACE WITHOUT THE WRITTEN PERMISSION OF THE NYC PARKS DEPARTMENT.
- TREE PROTECTION FENCING MUST BE MAINTAINED ON A REGULAR BASIS AND REPAIRED AND/OR RE-STAKED AS NEEDED.
- NO CONSTRUCTION EQUIPMENT OR MATERIAL STOCKPILES ARE PERMITTED WITHIN THE PROTECTED AREAS.
- NO CONTAMINANTS OR WASTEWATER FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF WITHIN OR AROUND PROTECTED AREAS.
- CONTRACTOR SHALL REPAIR AND RETURN EXCAVATED AREA TO MATCH EXISTING CONDITIONS OR TO MEET NYC PARKS DEPT. RESTORATION REQUIREMENTS.
- SAFETY FENCING WILL BE SET UP ALONG THE PERIMETER OF THE TEMPORARY WORKSPACE.
- NYCDOT WILL BE CONTACTED PRIOR TO THE INSTALLATION OF SAFETY FENCE (AS NEEDED) FOR APPROVAL OF LOCATION.
- BACKFILL FOR THE EXCAVATED AREA TO BE CLEAN.

TREE PRUNING NOTES:

- THE CONTRACTOR SHALL PRUNE TREE #25 AND TREE #27 UNDER THE SUPERVISION OF THE PROJECT ARBORIST TO PREVENT DAMAGE FROM CONSTRUCTION IN THE ADJACENT AREA.
- THE CONTRACTOR SHALL REMOVE THE DEAD, HANGING BRANCHES FROM TREE #19 AND TREE #20.
- THE CONTRACTOR SHALL CLEAN-UP UNSIGHTLY BRUSH AND FALLEN LIMBS/BRANCHES IN THE WOODED AREA ALONG THE NORTHERN PERIMETER OF THE PROJECT WORKSPACE.

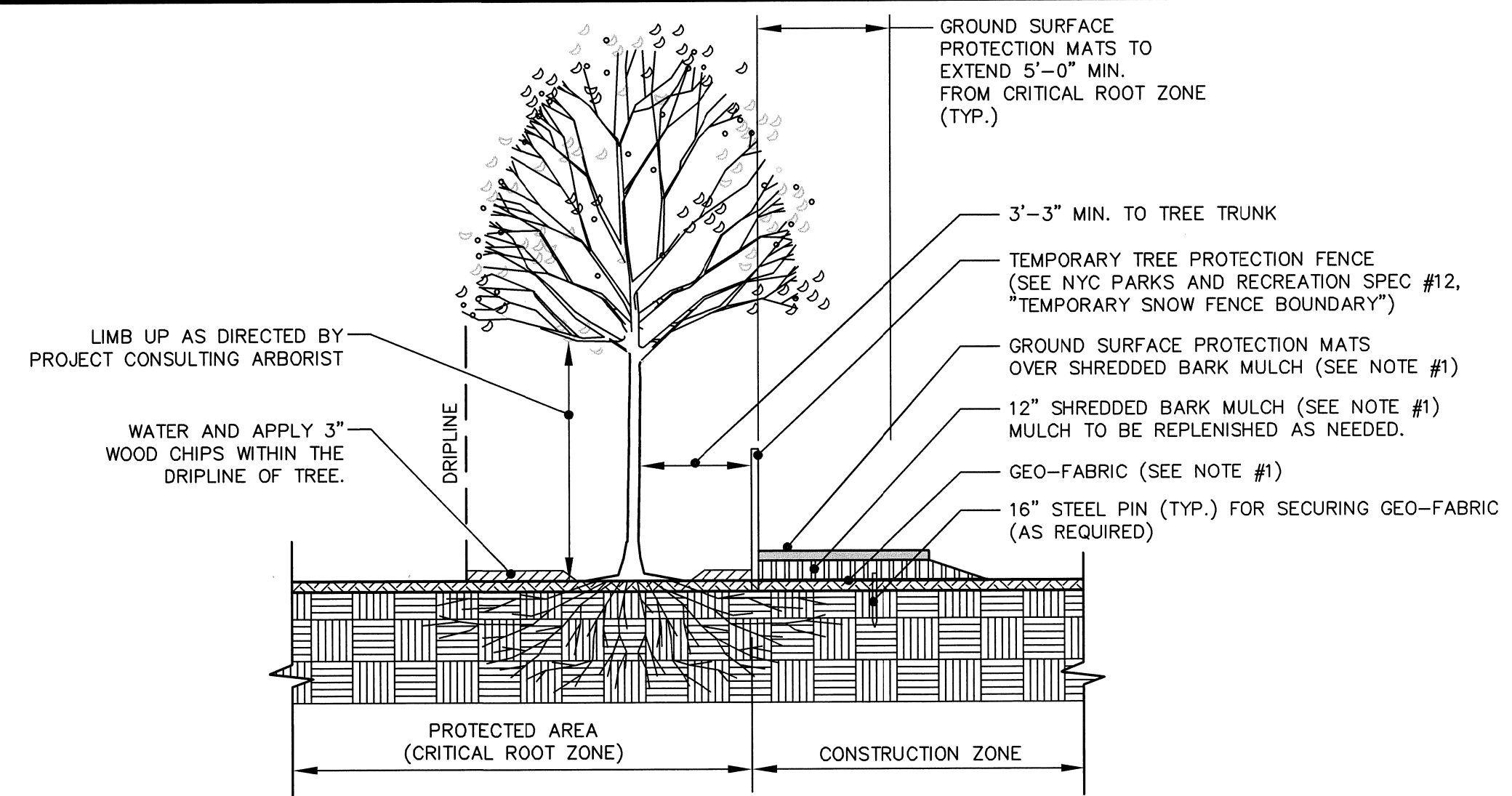
CONSTRUCTION WITHIN CRITICAL ROOT ZONE (CRZ) NOTES:

NO CONSTRUCTION WITHIN THE CRZ SHALL OCCUR WITHOUT THE WRITTEN PERMISSION OF THE NYC PARKS DEPARTMENT. IF PERMITTED THE FOLLOWING GENERAL MEASURES SHOULD BE EMPLOYED:

- EXCAVATED AREAS SHALL BE BACKFILLED IMMEDIATELY. EXPOSED ROOTS SHALL BE COVERED WITH BURLAP OR OTHER APPROVED MATERIAL, AND KEPT CONSTANTLY MOIST. COVERING TO BE CHECKED A MINIMUM OF TWO (2) TIMES A DAY (ONCE IN THE MORNING AND ONCE IN THE AFTERNOON) IN ORDER TO MAINTAIN APPROPRIATE LEVELS OF MOISTURE UNTIL BACKFILL IS COMPLETE.
- SOIL REMOVAL WITHIN THE CRZ IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF THE NYC PARKS DEPARTMENT.

TREE PROTECTION NOTES:

- THE CONTRACTOR SHALL GIVE PARTICULAR ATTENTION AND CARE TO PREVENT ANY DAMAGE TO ALL EXISTING VEGETATION WHICH IS BEYOND THE PROJECT CONSTRUCTION LIMITS. EVERY ATTEMPT SHALL BE MADE BY THE CONTRACTOR TO PROTECT AND SAVE THE VEGETATION THAT IS ADJACENT TO AND BEYOND THE CONSTRUCTION LIMITS.
- THE INSTALLATION, MAINTENANCE AND REMOVAL OF THE TEMPORARY TREE PROTECTION FENCE SHALL BE COORDINATED BY THE PROJECT CONSULTANT ARBORIST. ADDITIONAL TREE PROTECTION OF THE EXISTING ZELKOVA'S ALONG SHORE ROAD TO BE DETERMINED IN THE FIELD BY THE PROJECT ARBORIST PRIOR TO CONSTRUCTION. THE TEMPORARY SNOW FENCE BOUNDARY SHALL BE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT.
- BULK MATERIAL, EQUIPMENT, OR VEHICLES SHALL NOT BE STOCKPILED OR PARKED WITHIN THE DRIFLINE OF ANY TREE, OR WITHIN 10 FT. OF THE TRUNK (WHICHEVER IS GREATER) TO MINIMIZE SURFACE AND SUBSURFACE ROOT AND SOIL COMPACTION. THIS APPLIES TO ALL AREAS WITHIN OR OUTSIDE THE CONTRACT LIMIT LINE UNLESS APPROVED BY PARKS DEPARTMENT.
- ALL EXCAVATION SHALL BE PERFORMED OUTSIDE OF THE DRIFLINE OF EXISTING TREES, AS CLOSE AS POSSIBLE TO PREVIOUSLY DISTURBED AREAS.
- AT ALL TIME DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL AVOID OR MINIMIZE SOIL COMPACTION, POLLUTION, EROSION AND IMPACTS TO EXISTING VEGETATION. UNDER NO CIRCUMSTANCE MAY PETROLEUM PRODUCTS, CONCRETE WASH WATER, PAINT OR OTHER POLLUTANTS BE ALLOWED TO SEEP INTO THE LANDSCAPE OR CITY DRAINAGE SYSTEM.
- THE CONTRACTOR IS ADVISED THAT ADDITIONAL SPECIAL PROTECTION OF EXISTING TREES MAY BE NECESSARY AS WORK PROGRESSES. THIS MAY INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, PROTECTIVE FENCING, WATERING, VERTICAL MULCHING OR PLACING OF WOOD CHIPS. THE CONTRACTOR SHALL PROVIDE SUCH ADDITIONAL TREE PROTECTION AS DIRECTED BY THE PROJECT CONSULTANT ARBORIST.
- IF, FOR ANY REASON, THE CONTRACTOR MUST ENTER PROTECTED TREE AREAS DELINEATED BY THE TEMPORARY TREE PROTECTION FENCE, THE CONSULTING ARBORIST MUST BE PRESENT TO DIRECT AND SUPERVISE SUCH ACCESS.



DETAIL NOTES:

- GROUND SURFACE PROTECTION MATS (DURA-MATS OR MEGA-DECK OR APPROVED EQUAL) SHALL BE PLACED OVER WOOD CHIPS AND GEO-FABRIC SHALL BE PLACED UNDER WOOD CHIPS AS DIRECTED BY THE CONSULTING ARBORIST AND IN ACCORDANCE WITH THE DRAWINGS. GEO-FABRIC SHALL BE CLASS 2 NON-WOVEN FABRIC AS PER AASHTO M288, MODEL NO. 140N AS MANUFACTURED BY MIRAFI, OR APPROVED EQUAL. PINS SHALL BE INCIDENTAL TO GEO-FABRIC ITEM. GROUND SURFACE PROTECTION MATS SHALL BE A MINIMUM OF 10 FEET WIDE PARALLEL TO THE DIRECTION OF VEHICLE TRAVEL IN ORDER TO ACCOMMODATE THE FULL WIDTH OF CONSTRUCTION VEHICLES. NARROWER MATS WILL NOT BE ACCEPTED. MATS ARE TO BE SECURED IN PLACE AS RECOMMENDED BY THE MANUFACTURER. GROUND SURFACE PROTECTION MATS MAY BE REUSED AT OTHER LOCATIONS AS REQUIRED AT THE DISCRETION OF THE CONSULTING ARBORIST IF THEY ARE NO LONGER NEEDED AT THEIR ORIGINAL LOCATIONS.
- TREE PROTECTION MATERIALS SHALL BE REMOVED AFTER CONSTRUCTION WORK IN THIS AREA IS COMPLETE AND ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE REMOVAL OF ALL PROTECTIVE MATERIALS SHALL BE SUPERVISED BY THE CONSULTING ARBORIST.
- ALL WORK TO BE PERFORMED UNDER DIRECTION OF ARBORIST. ALL WORK LIMITS SHOWN ON THE DRAWINGS TO BE CONFIRMED IN FIELD BY ARBORIST.
- NO STAGING OR STORAGE OF EQUIPMENT OR MATERIALS SHALL OCCUR WITHIN THE TREE DRIFLINE OR LANDSCAPE PROTECTION ZONE OF THE PROJECT UNLESS APPROVED BY PARKS DEPARTMENT.
- AIR-SPADE AND RADIAL TRENCHING AROUND TREES (IF NEEDED) SHALL BE DETERMINED IN THE FIELD BY THE CONSULTING ARBORIST. AIR-SPADE SHALL BE OPERATED BY ONLY PERSONNEL HAVING MORE THAN 1 YEAR OF EXPERIENCE OPERATING THE AIR-SPADE FOR ARBORICULTURAL PURPOSES SUCH AS ROOT COLLAR EXCAVATIONS AND ROOT INVIGORATION TECHNIQUES. COMPACTED AREAS WILL EITHER RECEIVE AIR-SPADE TREATMENT OR 1 FOOT OF TOPSOIL SHALL BE REPLACED. THE LIMITS AND TYPE OF TREATMENTS FOR COMPACTED SOIL WILL BE DETERMINED IN THE FIELD AT THE TIME OF PROJECT COMPLETION BY THE CONSULTING ARBORIST AND JURISDICTIONAL AGENCY.

TREE PROTECTION DETAIL

N.T.S.

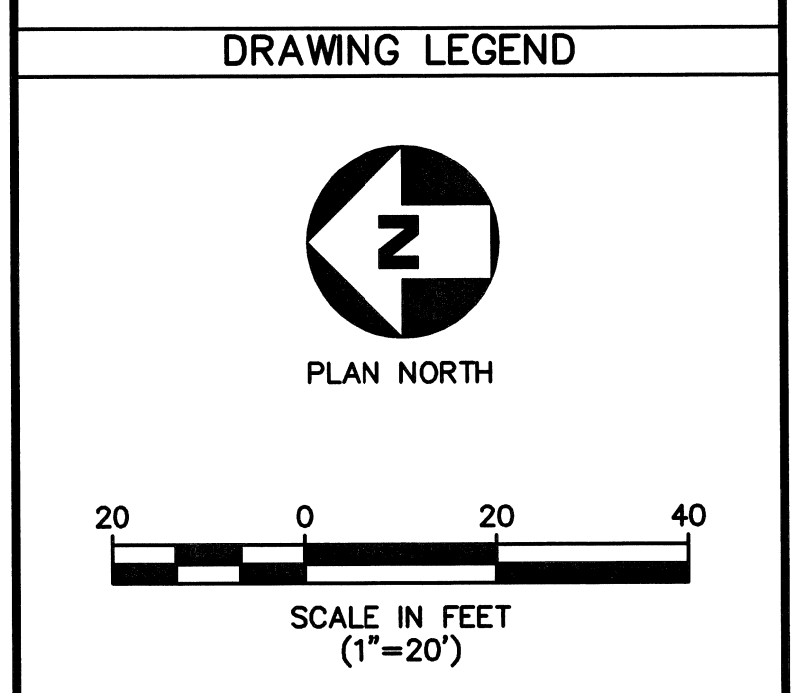
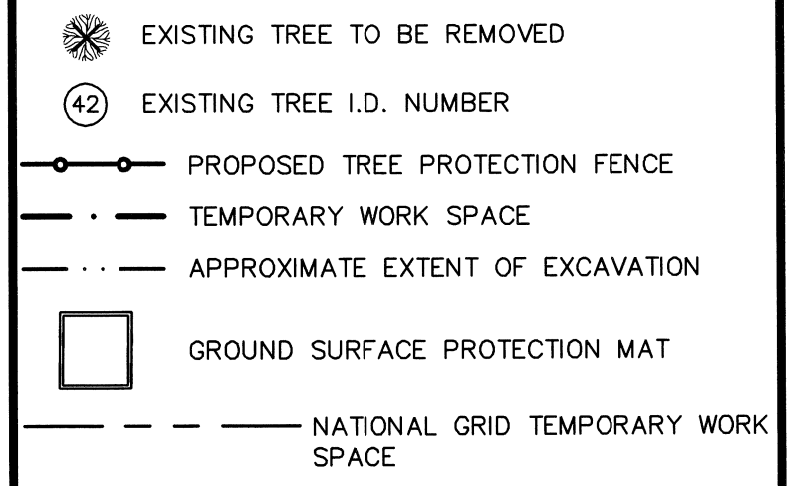
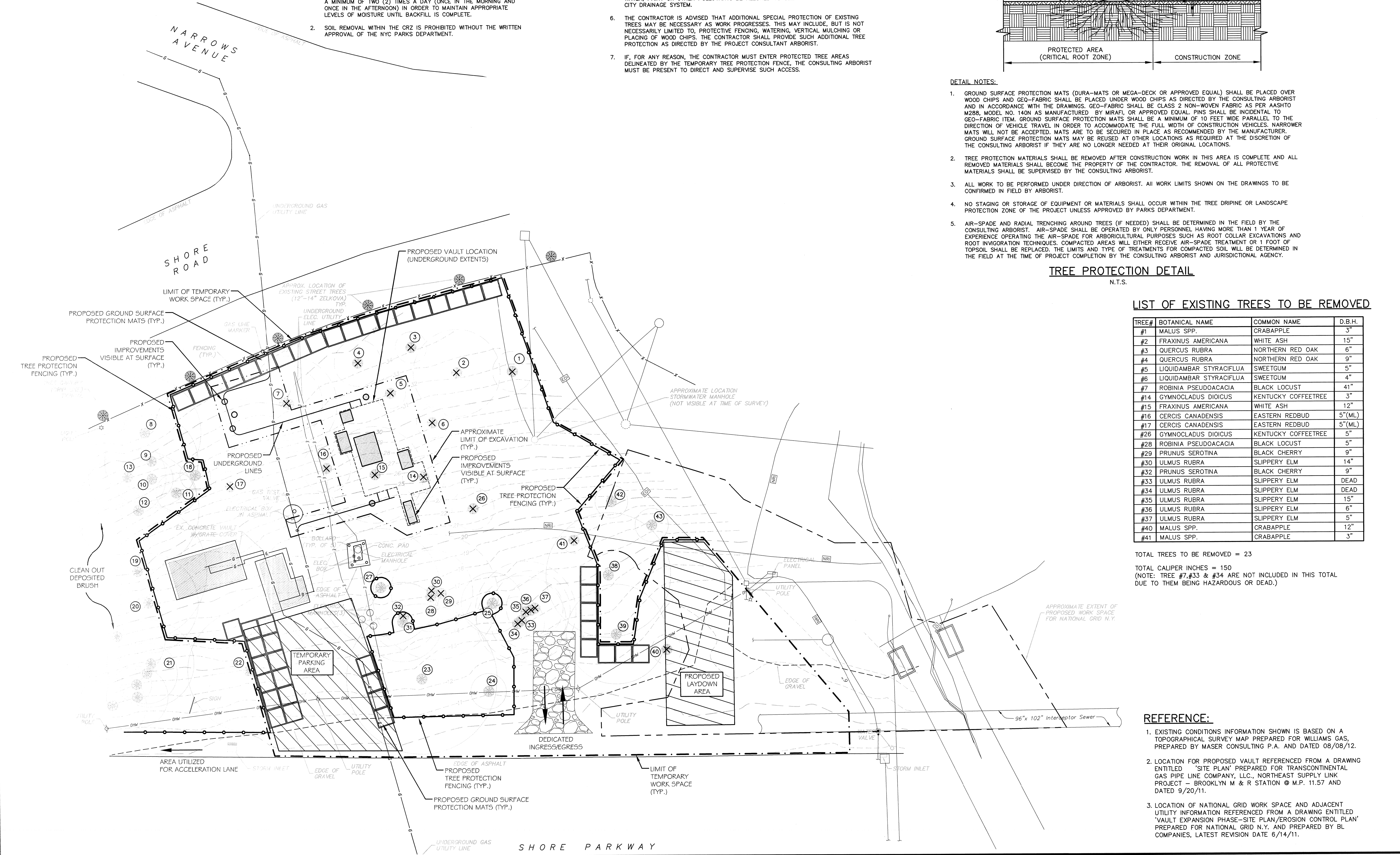
LIST OF EXISTING TREES TO BE REMOVED

TREE#	BOTANICAL NAME	COMMON NAME	D.B.H.
#1	MALUS SPP.	CRABAPPLE	3"
#2	FRAXINUS AMERICANA	WHITE ASH	15"
#3	QUERCUS RUBRA	NORTHERN RED OAK	6"
#4	QUERCUS RUBRA	NORTHERN RED OAK	9"
#5	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	5"
#6	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	4"
#7	ROBINIA PSEUDOACACIA	BLACK LOCUST	41"
#14	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	3"
#15	FRAXINUS AMERICANA	WHITE ASH	12"
#16	CERCIS CANADENSIS	EASTERN REDBUD	5"(ML)
#17	CERCIS CANADENSIS	EASTERN REDBUD	5"(ML)
#26	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	5"
#28	ROBINIA PSEUDOACACIA	BLACK LOCUST	5"
#29	PRUNUS SEROTINA	BLACK CHERRY	9"
#30	ULMUS RUBRA	SLIPPERY ELM	14"
#32	PRUNUS SEROTINA	BLACK CHERRY	9"
#33	ULMUS RUBRA	SLIPPERY ELM	DEAD
#34	ULMUS RUBRA	SLIPPERY ELM	DEAD
#35	ULMUS RUBRA	SLIPPERY ELM	15"
#36	ULMUS RUBRA	SLIPPERY ELM	6"
#37	ULMUS RUBRA	SLIPPERY ELM	5"
#40	MALUS SPP.	CRABAPPLE	12"
#41	MALUS SPP.	CRABAPPLE	3"

TOTAL TREES TO BE REMOVED = 23
 TOTAL CALIPER INCHES = 150
 (NOTE: TREE #7, #33 & #34 ARE NOT INCLUDED IN THIS TOTAL DUE TO THEM BEING HAZARDOUS OR DEAD.)

REFERENCE:

- EXISTING CONDITIONS INFORMATION SHOWN IS BASED ON A TOPOGRAPHICAL SURVEY MAP PREPARED FOR WILLIAMS GAS, PREPARED BY MASER CONSULTING P.A. AND DATED 08/08/12.
- LOCATION FOR PROPOSED VAULT REFERENCED FROM A DRAWING ENTITLED "SITE PLAN" PREPARED FOR TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC., NORTHEAST SUPPLY LINK PROJECT - BROOKLYN M & R STATION @ M.P. 11.57 AND DATED 9/20/11.
- LOCATION OF NATIONAL GRID WORK SPACE AND ADJACENT UTILITY INFORMATION REFERENCED FROM A DRAWING ENTITLED "VAULT EXPANSION PHASE-SITE PLAN/EROSION CONTROL PLAN" PREPARED FOR NATIONAL GRID N.Y. AND PREPARED BY BL COMPANIES. LATEST REVISION DATE 6/14/11.



REV	DATE	DRAWN BY	DESCRIPTION
2	10/03/12	JED	REVISIONS PER HYCDOT & ACCESS PLAN ADDED
1	09/21/12	JED	REVISIONS PER 8/24/12 SITE MEETING

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 Consulting, Municipal & Environmental Engineers
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**SHORE PARKWAY
 LANDSCAPE PROTECTION PLAN**
 FOR
**TRANSCONTINENTAL GAS PIPE
 LINE COMPANY, LLC.**
 BLOCK 6140, LOT 1
 BOROUGH OF BROOKLYN KINGS COUNTY N.Y.
 SCALE: 1"=20'
 DATE: 08/23/12
 DRAWN BY: JED
 CHECKED BY: GO
 PROJECT NUMBER: 11001060A
 SHEET NUMBER: 2 of 4
 NBO01276